

THE EFFECTS OF WOOD DEPOSITION FROM A
COASTAL LOG HANDLING OPERATION ON THE
BENTHOS OF A SHALLOW SAND BED IN
SAANICH INLET, BRITISH COLUMBIA

by

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ABSTRACT

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A log handling ground situated on the northwest coast of Saanich Inlet, B.C., is generating bark debris which has deposited to a thickness of greater than 15 cm over approximately 1 km² of a shallow, subtidal sand bed. Survey of the benthic epibiota by scuba divers and of the infauna by 5 replicated 0.1 m² van Veen grab samples at each of 16 stations showed a marked alteration of the biota. Variability in bottom sediment structure and water quality was not great enough to cause the observed faunistic distributions. Application of classification and ordination to the data revealed that infauna responded primarily to a gradient in bark debris thickness, secondarily to depth and least of all to seasonal variation.

The sand bed infauna was dominated by *Mysella tumida*, *Mesochaetopterus taylori* and at greater depth by *Phyllochaetopterus prolifica*. The community may be characteristic of west Saanich Inlet coastal sands. The sand population was markedly altered by deposited bark debris levels as low as 0.8 cm in mean thickness. Suspension feeding organisms were diminished and population biomass and diversity was reduced. Sand bed faunal attributes were lost as bark debris thickened. Small polychaete and crustacean dominants appeared which utilized the debris for attachment, protection and food. It is hypothesized that, with abatement of fiber deposition, return of the sand bed fauna may not occur until pre-deposition conditions return.

A number of community analytical techniques were applied to the data to differentiate faunal trends objectively. The methods included cluster

analysis, Zürich-Montpellier analysis and reciprocal averaging ordination. As well, species-abundance relations, relative diversity and faunistic primary feeding type relations were examined. An evaluation of the analytical methods suggested that the relative merit of each would vary with the degree of heterogeneity of the data. Cluster analysis indicated gross biotic differences, although the Czekanowski coefficient of similarity isolated structural gradients which were not evident in clustering by Jaccard's index or a Zürich-Montpellier analysis. Ordination was more sensitive to faunistic gradients and as well suggested the relative importance of environmental factors which mediate the trends. Species-abundance relations, diversity and trophic structure measures explored community complexity and stability. A combination of the analyses in complementary fashion was found to be the best approach to elucidate and substantiate faunistic trends in this study.

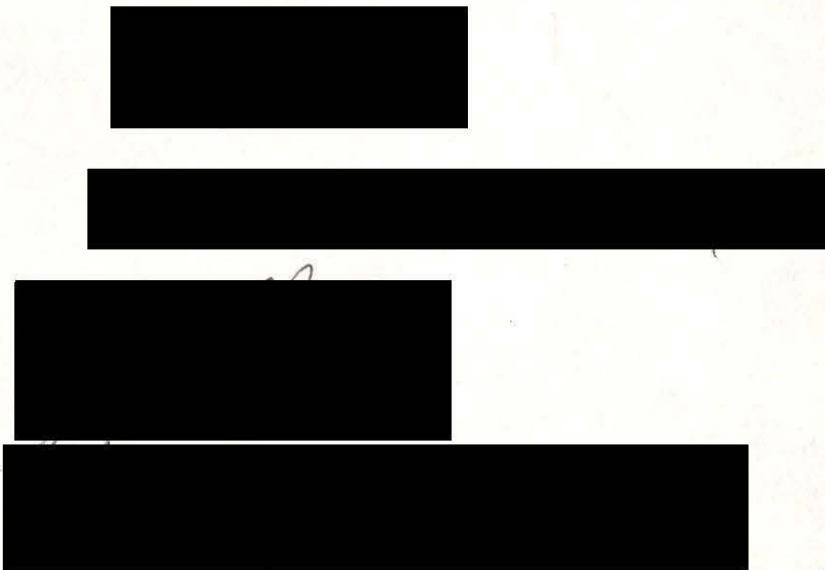


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PART I. Introduction

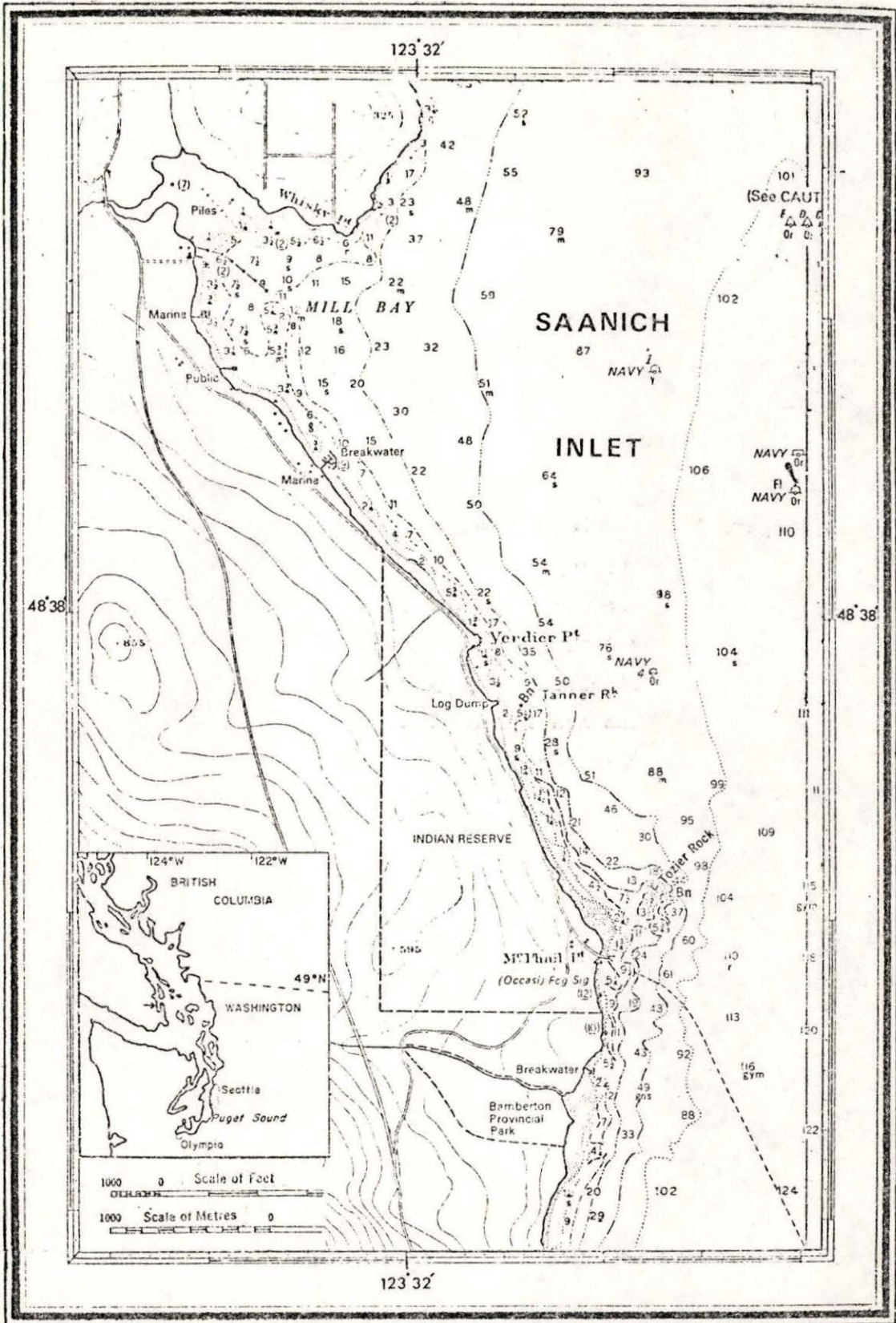
A. OBJECTIVE

The effect of bark and wood debris derived from water-borne log handling operations on the marine benthos has been a subject of some analysis in this last decade. However, with the exception of a single broad, semi-quantitative study in southeast Alaska (Pease, 1973) and a more intensive survey of an estuarine log handling operation in Oregon (Walker, 1973), no quantitative analytical study of effects has been made on marine bottom communities. The present investigation of a log handling ground, located 2 km south of Mill Bay on Saanich Inlet, B.C. (Figure 1.1), was undertaken in an attempt to correct this condition.

In this general context the detailed objectives of this study were:

- (1) to accurately map the distribution of bark and wood debris deposited on the sea floor proximal to the Mill Bay log dump;
- (2) to determine the characteristics of the sediments underlying the fiber bed as a prerequisite to establishing the pre-discharge structure of the benthos (this is in accordance with Thorson's (1957) concept that parallel infaunal communities may be expected to occur in similar sediments);
- (3) to quantitatively evaluate the impact of deposited bark and wood debris on the infaunal biomass, abundance, species composition, diversity and primary feeding structure;
- (4) to determine the relationship of these biological parameters to gradients in bark deposit thickness, sampling depth and seasonal variability;
- (5) to suggest a level of bark deposit thickness at which the effects of the debris become critical to the maintenance of the sand community structure;
- (6) to determine the process of infaunal succession in a non-depositing fiber bed, and
- (7) to infer from a scuba survey of large epifauna and deep

Figure 1.1 Section of Canadian Hydrographic chart #3451 showing north-central Saanich Inlet. The study area is a coastal sand bed running from McPhail Point, 2.3 km north to Mill Bay. Centrally located in the sand bed is a log dump, booming and storage ground, comprising 15.3 acres of foreshore.



burrowing pelecypods the impact of bark debris on organisms overlooked by conventional remote sampling techniques.

The application of analytical methods to the analysis of marine benthic populations has become widespread in the past quarter century (see Section IC). Because of the complex nature of many numerical techniques, attempts to combine and systematically subject benthic data to numerical analysis have not often been accomplished. It was a further objective of this study to apply and compare several mathematical analyses to elucidate and substantiate the effects of bark debris on the shallow subtidal benthos.

B. REVIEW OF THE EFFECTS OF WOOD DEBRIS ON BENTHIC ECOSYSTEMS

There are approximately 200 log dump, sorting and storage grounds situated on the southern B.C. marine coast which handle more than 1000 cubic feet of wood per year (Waelti and MacLeod, 1971). Methods of log handling and transport are reviewed elsewhere (Conlan, 1974b). Rough handling and transportation accidents often result in the loss of bark, wood splinters and logs. Schaumburg (1973) found that about 20% of a log surface is abraded during log handling, this figure varying somewhat with the wood species and method employed. The loose logs and debris are washed onto the shoreline or sink and deposit onto the sea bottom. Most log handling areas are encompassed by a barrier of boom sticks to localize debris deposition. The author estimates from British Columbia Lands Branch files that 4000 acres of water are or have been used for log handling in south east Vancouver Island alone. Many of these operations are located in bays or estuaries, which may be highly productive and provide nurseries for young fish and invertebrates (Cronin, 1967). A large area of productive coastal sea bottom in British Columbia is thus susceptible to being blanketed by wood debris.

Wood deposition may alter the benthic environment in several ways. Wood particles on the sea bottom differ in size, weight and shape from inorganic sediments, thus altering the porosity, permeability and stability of the substrate available to benthic biota (Jones, 1973). Wood particles may increase the organic load of the sediments by leaching soluble components such as carbohydrates, resins, tannins and lignins. Furthermore, degradation of the organics may exert a measurable oxygen demand on interstitial and overlying waters. If oxygen depletion is great, hydrogen sulfide may accumulate to toxic levels.

Alteration of the benthic environment in these ways potentially can affect a benthic population so that changes result in species composition, relative abundance, biomass, diversity, production and interspecific relations.

The ecological impact of bark debris generated by aquatic log handling has been documented by Ellis (1970), Lehman (1970) and Pease (1973) in Alaska, McDaniel (1973) and Conlan *et. al.* (1974a) in British Columbia, and Schaumburg (1973) and Walker (1973) in Oregon. An extensive review is given in Conlan (1975a). Wood debris, bark and sunken logs deposit in a blanket around the source of log introduction, often to several hundred feet distant. The thickness of the deposit appears to vary with the method of log dumping, the distance from the source, the species of wood handled, the frequency and amount of dumping and water circulation patterns. Areas used solely for log storage or locations subject to strong currents show little or no debris accumulation. At log dumping and booming grounds, however, deposits are thick and evidence little decomposition.

Wood and bark leach soluble organic materials when in contact with water. The rate of leaching varies with the age and species of wood, contact time, wood surface area, holding water temperature, salinity and circulation (Sproul and Sharpe, 1968; Atkinson, 1971; Benedict and McKeown, 1971; Gove and Gellman, 1971). The leachates exert a strong oxygen demand and at high concentrations in test conditions are toxic to shrimp, Dungeness crab, trout and salmon juveniles (Henriksen and Samdal, 1966; Pease, 1973; Schaumburg, 1973; Servizi *et. al.*, 1974; Buchanan *et. al.*, 1976; Peters *et. al.*, 1976). In natural conditions, however, leachates seem to alter water quality very little, except in

enclosed, poorly flushed bodies of water (Pease, 1973; Schaumburg, 1973; Peters, 1974). Chang and Levings (1976 a and b) explored in the laboratory the physical impact of wood debris. They suggest that, at least when large amounts of debris rapidly deposit to 20 cm or more, death by suffocation will be the immediate issue.

Benthic epifauna are sparse where bark debris is soft and loose (Ellis, 1970; Pease, 1973). Where sunken logs and rocks jut above the debris, sessile organisms attach and cryptic forms such as crabs and shrimp hide beneath. Small amphipods live amongst chlorophytes and diatoms growing on the wood surface (Levings, 1973a) and wood burrowers live within. Benthic infauna are markedly altered in species composition and bivalves in particular are decimated (Pease, 1973; Walker, 1973; Conlan *et. al.*, 1974a).

The study of the biological effects of wood and bark debris to date has been largely qualitative. This study was therefore initiated to bring the effects into a quantitative perspective with the aid of computerized analytical techniques.

The results of this investigation should have broad application to the problems of ocean dumping and large particle discharge from pulp mills and log handling grounds. It is hoped that results will contribute to the establishment of ground rules for government regulatory agencies.

C. REVIEW OF NUMERICAL ANALYTICAL METHODS FOR THE STUDY OF BENTHIC POPULATIONS

The technique of environmental monitoring using the biota as indicators dates to the pioneering benthic assessments of Petersen (1918) and Boysen Jensen (1919). Benthic fauna are particularly useful in studies of aquatic pollution because of their sessile nature. A number of biotic diversity indices and guidelines for pollution zone nomenclature have been proposed in an attempt to unify and systematize the study of pollution (for a review, see Leppäkoski, 1975). Indicator organisms have been selected by some biologists, with the intent of mapping their distribution and abundance to index the extent and degree of pollution.

Full benthic community analysis has developed from the simple comparison of species relative abundance and biomass to the more sophisticated multivariate techniques of community classification and ordination pioneered by terrestrial plant ecologists in the earlier half of this century. A review of methodology is given elsewhere (Conlan, 1975b). Classification is a method of grouping sampled biota into community groups or associations. Once delimited, the structure and faunal interrelationships between communities may be analysed. Ordination treats the data as a continuum. The technique is sensitive to gradual trends in faunistic structure which may be relatable to gradients in environmental factors.

Community groups can be described and compared by measure of homogeneity, diversity, standing crop and constituent trophic structure. Population modelling attempts to describe how the species of the community divide the available resources (Pielou, 1969). Stable climax communities are often described by a lognormal distribution, whereas

unstable, ecologically stressed communities show a geometric-type distribution (Whittaker, 1965). Communities may also be compared by diversity measures such as the Shannon-Weaver index (Shannon and Weaver, 1963) which determines both the number of species and the "evenness" of the species distributions.

This investigation studies the impact of bark deposition on the associations of the shallow benthic macrofauna of west Saanich Inlet by means of qualitative and quantitative analytical techniques. Classification of faunistic associations is made by means of cluster and Zürich-Montpellier analyses, then trends in biotic distributions are explored by ordination. Community structure is examined by use of the Shannon-Weaver diversity index and by the degree of conformity to the lognormal or geometric type of species distribution. An insight into faunistic interrelationships in the communities is formed by an examination of the relative composition of four primary feeding groups: suspension feeder, deposit feeder, herbivore, carnivore and/or scavenger.

PART II. The Mill Bay Study Area

A. CRITERIA FOR THE SELECTION OF THE STUDY AREA

Environmental impact studies require that data be gathered on the nature of the environment prior to impact. An alternative, when pre-discharge data is unobtainable, is the sampling nearby of areas untouched by discharge. Thus obtained is a set of test data to be analysed against a comparable set of control data. With this latter method of study, it is assumed that the control environment is representative of conditions prior to discharge. In the shallow marine benthic environment it is not often possible to find satisfactory control areas. In bays and estuaries, sediment features, salinity and current patterns are variable, so that no two adjacent areas may be alike. Benthic infauna are sensitive to these parameters, especially to bottom currents and the nature of the sediments (Sanders, 1960). On the other hand, uniform coastline which is unbroken by major freshwater inflow is not as likely to vary in the above environmental features. A less variable benthic fauna results (Jones, 1956). Thus, when a discharge is established on the uniform coast, one can assume with some degree of confidence that the benthic environment prior to discharge resembled the surrounding environment of the coastline. Presumably cessation of the discharge would result in an eventual return of the coastline benthos to this area.

Figure 2.1 displays the locations of log dumping grounds on coastal waters of British Columbia. Many of the grounds are situated in shallow protected waters, often close to a freshwater source which acts to inhibit wood borer infestations. Of those grounds situated on uniform coastline, the log dump in Saanich Inlet, located 2 km south of the town of Mill Bay,

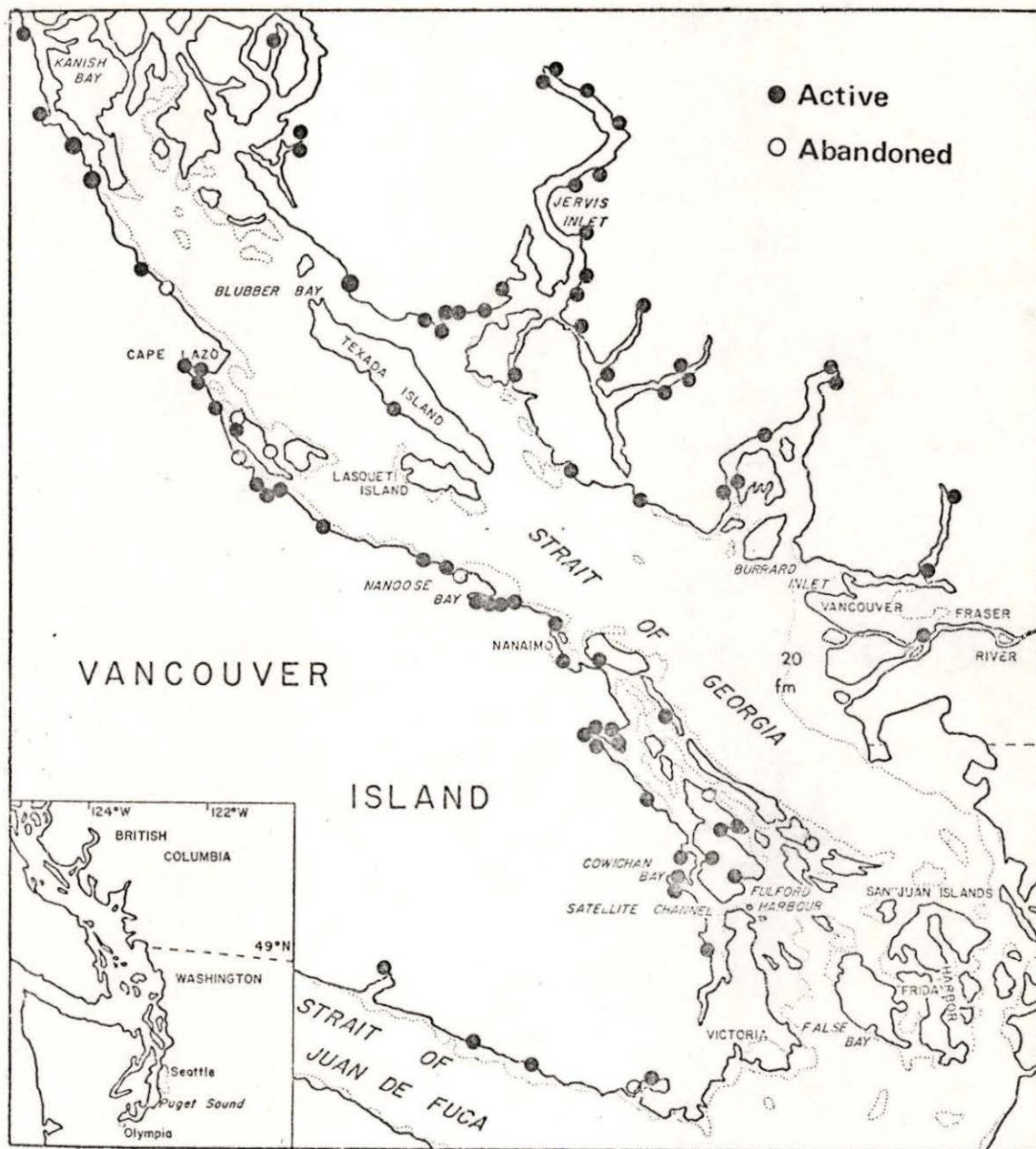


Figure 2.1 Location of major log handling grounds on the southern British Columbia coast

was selected for study. The site was chosen for the following reasons:

- (a) the log dump is situated on a 5 km stretch of uniform coastline which is uninterrupted by major freshwater and effluent discharges; (b) the sediments and benthic infauna are highly comparable to the coastal seabed 9.5 km due north, which has been extensively studied by Ellis (1967);
- (c) part of the log dump and booming site had been abandoned for a known period of time, which allowed for a study of benthic succession.

B. DESCRIPTION OF THE STUDY AREA

The area selected for sampling is situated on a 2.3 km stretch of coastline on central west Saanich Inlet in southeast Vancouver Island, British Columbia. The sampling area encompasses a log dump and booming ground, situated at latitude $48^{\circ} 38.7'$, longitude $123^{\circ} 31.6'$. A sandy beach runs the length of the shore, interrupted briefly by the rocky headland of Verdier Point. Sandflats continue subtidally, at a roughly 16° slope, then merge into mud below the 100 meter depth (*c.f.* Gucluer and Gross, 1964). The nearest sources of freshwater inflow are Shawnigan Creek, 2.6 km northwest of the northern boundary of the sampling area and Johns Creek, 1.6 km southeast of the southern boundary. The dominant freshwater influence is from discharge of the Cowichan River and Fraser River to the north.

Herlinveaux (1962) has compiled 30 year's data on the oceanography of Saanich Inlet. At depths comparable to the study area (5 to 10 meters), water salinity fluctuates from approximately 28.5 ppt to 30.2 ppt. Two annual minima occur, a winter dilution coinciding with winter precipitation and with the runoff of nearby Cowichan River, and a summer dilution coinciding with maximum runoff of the Fraser River. Annual water temperature ranges from a winter low of approximately 6°C to double that value in July. Short-term temperature variations occur at all times of the year which can be partially attributed to the tidal pattern. Dissolved oxygen levels at 10 meters depth are seasonally high and always remain above 3 ml/l. Maxima in excess of 15 ml/l are reached in July, coinciding with the bloom of phytoplankton and benthic algae. Currents in Saanich Inlet are weak and variable, determined by the winds and tides (Herlinveaux, *op.cit.*). Tidal movement is greatest

along the western side of the inlet during the flood and along the eastern side during the ebb. The tide pattern is mixed semidiurnal (Herlinveaux, op.cit.).

C. HISTORY OF THE MILL BAY LOG HANDLING GROUND

Log dumping and booming have operated at the Mill Bay site since the 1920's. Logs were originally dumped at the shoreline, then boomed loose into rafts. Two locations were used for the dumping of logs, situated as in Figure 1.1: one situated north of Verdier Point, the second opposite Tanner Rock. The former dumping site was used intermittently and abandoned in 1957. All dumping presently occurs at the location opposite Tanner Rock.

In 1967 a landfill spit with two slide ramps was constructed opposite Tanner Rock so that logs could be dumped into deeper water. At this time also, a new method of handling was introduced, that of binding the logs into bundles prior to dumping. This method effectively reduced log damage, loss and release of debris.

Approximately 300,000 cubic feet of logs are presently handled per year (Pacific Logging Company, personal communication). Major wood species handled, are Douglas fir (*Pseudotsuga menziesii*), Western Red Cedar (*Thuja plicata*) and Western Hemlock (*Thuja heterophylla*). To avoid rough winter weather, operations cease in December and resume in March. Log handling activities cover a water surface area of 15.3 acres. Logs are dumped and sorted next to the landfill spit and then stored for up to one week at the perimeter of the booming ground before being transported to mills for processing.

PART III. Methods

A. INFAUNAL SURVEY

(i) Sampling design

The field log in Table 3.1 outlines the format of the field sampling program at Mill Bay. The preliminary survey examined the topography of the sea bottom, the nature of the sediments, the distribution of the bark debris blanket and the nature of the infauna. From this investigation the infaunal sampling program was developed. Seven permanent sampling stations in the fiber mat, situated as shown in Figure 3.1 and described in Appendix I were positioned at varying distances from the log dump spit. Because the sea bottom was not level and hence faunistic variability would occur with depth (Thorson, 1957), the stations were aligned on three depth contours at roughly 5, 7 and 11 meters below chart datum. Control stations to either side of the fiber blanket were established at these same depths to give a grid of thirteen sampling stations.

In January, 1976, two further stations were created in the bark debris at the 7 m contour. Control station 10, situated at the same depth, was re-sampled for comparison.

Table 3.1 Field log describing the sampling program

| Sampling date | Purpose | Equipment | Location |
|---------------------|--------------------------------------|---|---|
| 25/2/75- 28/2/75 | Preliminary general survey | 2 l. Niskin bottle 0.1 m ² van Veen grab 3.1 cm I.D. gravity corer | Proximal to active dump and booming ground |
| 20/3/75 | Sediment coring | 3.1 cm I.D. gravity corer | Abandoned log dump |
| 8/4/75 | Sediment coring | 3.1 cm I.D. gravity corer | Throughout study area |
| 28/4/75- 7/5/75 | Infauna and water sampling | 0.1 m ² van Veen grab 2 l. Niskin bottle | Stations 1-13 |
| 9/6/75- 21/6/75 | Epifauna sampling | 1 m ² and 16 m ² quadrats | Stations 1-13 |
| 11/8/75 | Interstitial water sampling | 50 cc syringe | Station 4 |
| 20/8/75 | Sediment coring | 3.1 cm I.D. gravity corer | Stations 3,5,6,7,8, 9,12,13 |
| 18/11/75 | Sediment coring | 3.1 cm I.D. gravity corer | Stations 1 and 11 |
| 8/12/75 | Sediment coring | 3.1 cm I.D. gravity corer | Throughout study area plus stations 1-13 |
| 16/1/76 | Sediment coring | 3.1 cm I.D. gravity corer | Throughout study area plus stations 3,4,5, 8,12 |
| 22/1/76 | Sediment coring and infauna sampling | 3.1 cm I.D. gravity corer 0.1 m ² van Veen grab | Stations 14-16 |

Figure 3.1 Biotic and water sampling stations, hydrography,
and distribution of benthic sediments and bark
debris at the Mill Bay study area

(ii) Collecting techniques

In both surveys biological samples were collected with a 0.1 m² van Veen grab. A description of the structure and sampling properties is given in Holme (1964). Lie and Pamatmat (1965) and Gallardo (1965) demonstrate the flat biting profile and sampling efficiency of this equipment.

Five replicate samples were collected at each station. In order to determine whether this sample size was sufficient, lognormal plots of species abundance were made for each station. The data (Figure 4.1) seemed to show that there were more moderately common species and fewer rare or common species. The curve of the fitted function was truncated at the left because not all of the rare species were sampled. Increasing the sample size would move the mode of the curve to the right as more rare species were caught.

It can be seen in Figure 4.1 that at all stations, between 65 and 85% of the potential species were collected. In view of the contention (Cassie and Michael, 1968; Day *et al.*, 1971; Field, 1971; Hughes and Thomas, 1971a and b) that rare species are of little use in identifying major faunistic distribution patterns, it was concluded that the conventional 5-replicate survey (Longhurst, 1959) was adequate for this program.

All samples were screened through 1 mm mesh to retain all components of the macrofauna as defined by McIntyre (1969) and preserved in 10% formalin neutralized with hexamine. Temperature measurements and sediment subsamples were taken for each haul prior to screening.

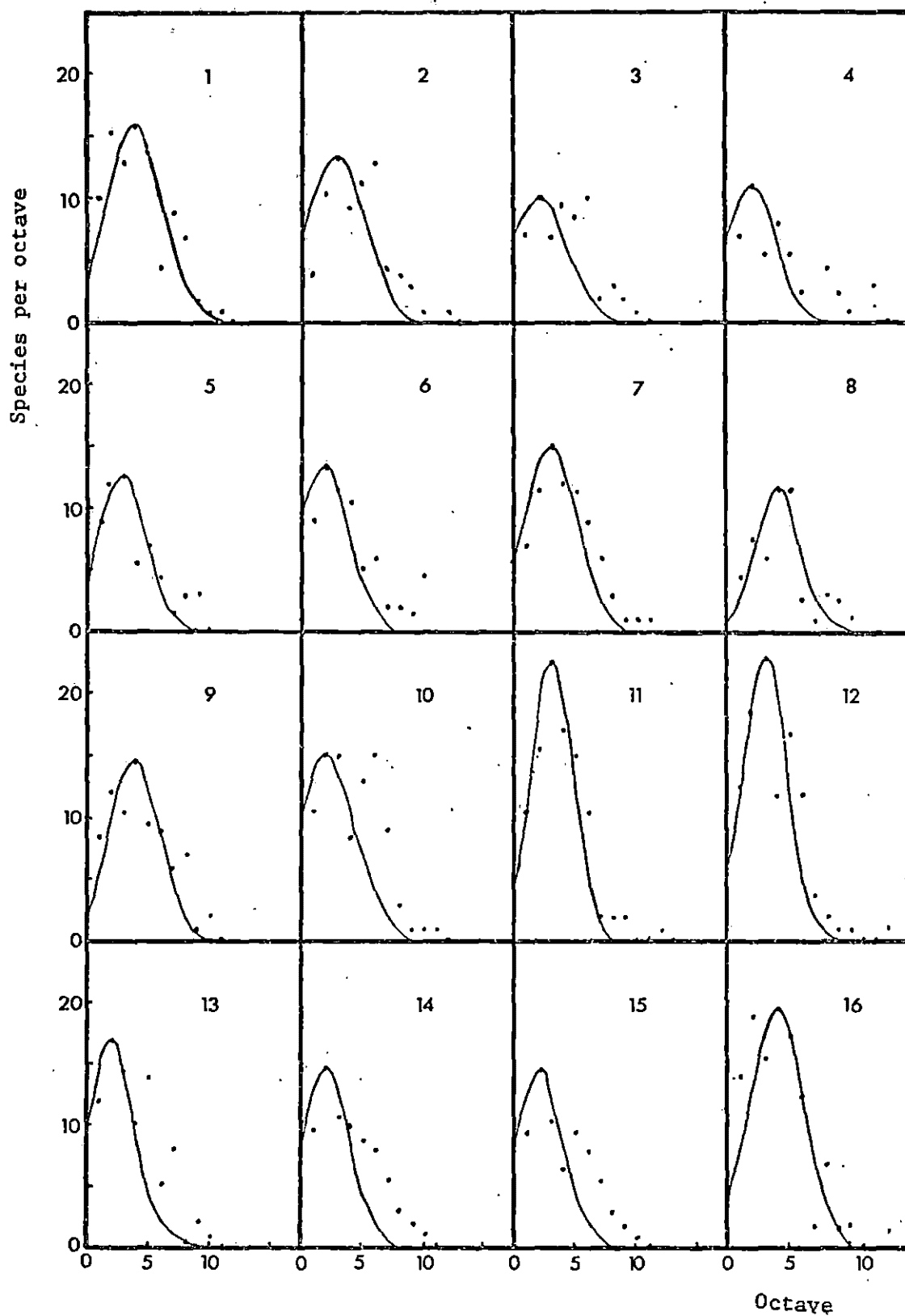


Figure 4.1 Lognormal plot of the species distributions at each station. An octave represents the logarithm of the species' abundance to the base 2. The solid curve is the expected lognormal distribution; the points are those observed.

(iii) Identification and quantification

In the laboratory the samples were transferred from the original 10% neutralized formalin to 45% ethanol. Bark debris was inspected under a 12.5 power microscope to be certain that all organisms were collected. The biota was then preliminarily sorted into major taxa (errant polychaetes, sedentary polychaetes, molluscs, crustaceans and others) and within major taxa into apparent species.

Identifications were undertaken at the same time for both the May, 1975 and January, 1976 surveys to ensure consistency in the results. Organisms were identified to a level at which their taxonomic status was differentiable, without doubt, by the author. Literature documenting species distributions and habitat types was consulted to substantiate identifications. The identification of the amphipods was kindly verified by Dr. E.L. Bousfield of the National Museums of Canada and that of the errant and sedentary polychaetes by Dr. R.M. O'Clair.

The organisms were counted and wet weighed to the nearest 0.1 gram after damp drying for 10 minutes, as recommended by Lie (1968). Conversion to dry weight was undertaken during computerized data processing following Thorson's (1957) conversion table.

(iv) Analysis of feeding biology

Based on the feeding biology classificatory strategy outlined by Blegvad (1914), Hunt (1925), Yonge (1928), Smidt (1951) Reish (1959a) and Newell (1970), the infauna of the sampling ground were categorized by their primary feeding habit: suspension feeder, deposit feeder, herbivore, carnivore and/or scavenger. The definition of these categories was adopted for this study from the descriptions by Blegvad (1914), Hunt (1925), Mare (1942) and Newell (1970):

suspension feeder: microphagous, ingesting food that is suspended in the water mass;

deposit feeder: microphagous, ingesting food that is deposited on or within the sediments;

herbivore: macrophagous, ingesting plant material, either living or dead;

carnivore and scavenger: macrophagous, ingesting animal material, either living or dead.

The primary feeding habit of most sampled infauna could be reliably characterized by reference to monographs on the subject. Classifications were verified by examination of the gut contents of larger organisms.

The documented feeding type of each species, along with relevant references are presented in Appendix II. It is recognized that many organisms may assume a secondary mode of feeding, depending upon the availability of food resources. Therefore, the documented feeding types are listed as the primary habit of each species.

B. EPIFAUNAL SURVEY

(i) Sampling design

Epifauna of the sand and bark debris beds were observed at stations 1 to 13 by scuba divers. A 16 m² quadrat was dropped at the water surface of each station, allowed to sink, and then the presence or absence of epifauna within the encompassed area on the sea bottom was noted. A quadrat this great in size was selected so that the larger and more widely dispersed epifauna would be sampled. The percent coverage of the sea bottom by algae was also determined, by replicate estimates on a gridded 1 m² quadrat.

(ii) Identification

Sampled epifauna were preserved in neutralized 10% formalin, then transferred to 45% ethanol and identified using the same taxonomic criteria as employed for the infauna.

C. ENVIRONMENTAL SURVEY

(i) Distribution of the bark fiber blanket

(ia) Field sampling

With the intent of mapping the distribution of the bark debris blanket, the benthic sediments of the study area were systematically remote sampled off a stationary vessel by a 3.1 cm internal diameter gravity corer. Radar positioning of the vessel was not sufficiently accurate to differentiate the 148 coring sites established in the survey. The position of each core sample was thus charted as follows.

The north-south coordinate of the sampling site was determined from the water depth as measured by the length of line required to lower the corer to the sea bottom. The depth measurement was standardized against chart datum level and then plotted on Canadian Hydrographic Chart #3451.

The east-west coordinate of the sampling site was estimated visually by relation to fixed reference points (see Appendix I). The topographical situation of these reference points was recorded in low altitude (1.1 km) air photographs of the study area. The positions of the sampling sites were then mapped on the photographs with an accuracy judged visually to range from ± 1 m to ± 50 m, depending upon the distance of the sampling site (never more than 200 m) from a reference point.

The depth contours of the Hydrographic chart and the topographic features of the air photos were combined to make a large scale map of the area, onto which the sampling positions and the core data were marked. From this, the distribution and thickness of the bark fiber bed and as well the nature of the underlying sediments were plotted.

(ib) Laboratory analysis

Preliminary core samples collected in 1975 were stained with 0.1% rhodamine B, as directed by Jones and Ellis (1975), and split lengthwise to determine the thickness of bark overlying the benthic sediments. Contrary to that observed by Jones and Ellis (1975) for benthic pulp mill fiber, the bark particles did not consistently bond the stain and a clear fiber-sediment interface was not always discernable. A second method of analysis was therefore adopted.

The contents of the cores were slowly extruded from the sampling tube and cut into wafers at 1 cm intervals from the sediment-water interface. Each wafer was labelled, dried at room temperature and stored separately. Subsequently, each wafer was examined for sediment median particle size and fiber content. Sediment particle size was analysed by methods outlined in the following section. Fiber content was estimated by the close comparison of each wafer to sediment standards containing 0, 5, 25, 50, 75, and 95 percent bark by volume. Bark deposit thickness was recorded as the deepest position in the core at which the bark content became less than 50 percent, by volume.

A test was devised to determine whether the known percentage composition of bark fiber in the standards could be consistently approximated by eye. Using the same sand and bark components which had been used to construct the standards, bark fiber was added to samples of sand until it was judged, by visual comparison to standards, that a 5, 25, 50, or 75 percent level of fiber by volume was reached. Each test was repeated in triplicate. The weight of bark and sand required to construct the four mixtures were measured for each replicate and compared against the known weight ratios of the standards.

Gravimetric comparisons were substantiated by analysis of the total organic content of both test samples and standards, as measured by combustion. The combustion analysis was conducted by the Water Resources Service, British Columbia Department of Lands, Forests and Water Resources, by the method outlined as follows. The sample was ground through a 0.15 mm mesh sieve, dried at 105°C to constant weight, weighed, and then combusted in an electric muffle furnace at 550°C for 1 to 1½ hours. After constant weight was attained, the sample was reweighed and the weight loss was expressed as percent total volatile solids. This value gave a measure of the organic content of the sample (American Public Health Association, 1971).

Table 3.2 presents the computed organic content of each standard and test sample, as measured gravimetrically and by combustion. Comparison to standards of the mean percentage of organic matter in each set of test samples showed that in every case the test samples approached the standard values well within the 95% confidence limits. It could therefore be concluded that comparison of test wafer samples to standards by this analysis was both consistent and accurate.

| Bark Content (%) | | | | |
|------------------|-------------|---|---|---|
| Volumetric | Gravimetric | | Combustion (% total volatile solids) | |
| Standard | Standard | Test (Mean \pm 95% confidence limits) | Standard | Test (Mean \pm 95% confidence limits) |
| 5 | 1.1 | 1.0 \pm 0.41 | 1.1 | 1.9 \pm 1.37 |
| 25 | 5.0 | 4.7 \pm 1.50 | 4.6 | 5.0 \pm 1.09 |
| 50 | 13.0 | 14.4 \pm 3.00 | 11.0 | 12.1 \pm 2.05 |
| 75 | 32.1 | 32.7 \pm 2.32 | 25.2 | 26.3 \pm 2.19 |

Table 3.2 Test of the accuracy of constructing bark-sediment samples in proportions of 5, 25, 50 and 75%. The bark content is measured in three ways: volumetrically, gravimetrically, and by combustion. The 95% confidence limits are $\bar{X} \pm t_{.05} s/\sqrt{n}$.

(ii) Benthic sediments

The benthic sediments extending over the sampling area and below the bark debris were analysed from the core and grab samples, located as depicted in Figure 3.1. Mechanical analysis was performed as outlined by the British Columbia Department of Highways (1967) and conformed to standard practices for mechanical analysis of soils by the American Society for Testing Materials.

(iii) Water quality

(iiia) Collection methods

Replicate samples of surface and bottom waters overlying the fiber blanket and the adjacent sand bed were collected as shown in Figure 3.1. Sampling dates are given in Table 3.1.

A 2 liter Niskin bottle was operated manually by a scuba diver so that horizontal layers of water could be collected at predetermined levels in the water column. Water lying in the interstices of the bark debris was collected in a 50 cc syringe fitted with a millipore filter. All samples were stored cool in air tight bottles and analysed without delay.

(iiib) Water quality analysis

All analyses were conducted by the Water Resources Service, British Columbia Department of Lands, Forests and Water Resources, following the methods in McQuaker (1973). A brief outline of the analyses is as follows:

Biochemical oxygen demand: water samples were incubated in the dark for 5 days at 20°C and the amount of dissolved oxygen consumed during that time was determined. The test measured the amount of oxygen consumed by aerobic micro-organisms.

Total organic carbon: a measure of the organic carbon content of the water, including that leached from wood and bark was given by combustion of the samples and determination of the oxidized carbon by infrared analyses.

Total sulfide: sulfide may be found where microbial action on organic matter proceeded in anaerobic conditions. Sulfide in water was detected by iodometric titration after first preserving the sample with zinc acetate.

D. DATA ANALYSIS

(i) Data processing

Infaunal abundance and wet weight data for each haul were punched onto computer cards in the form of two separate matrices. Each matrix was dimensioned 168 rows (total number of species) by 80 columns (total number of hauls). The matrix rows, which contained the data for each species, were matched with a vector of eight lettered taxon code names. The acronyms are presented in Appendix III with the full taxon identification. It was found that this method of data presentation streamlined the data deck so that only a fraction of the time required for Ellis' (1968) data processing was used and hence efficiency and accuracy of data punching increased. Accuracy of data transcription was twice checked before the data was run in the University of Victoria IBM System 360 computer.

FORTTRAN language programs designed by Ellis (1968) to summarize benthic data were modified by the author to accept the data matrices and diversified to include wider computational abilities. The programs and their modifications were as follows: BENTH 2 calculated for each species at each station, its frequency of occurrence, its mean density, wet and dry weight per m^2 , the standard deviation and percentage these values represented of the total at each station. Added to this program, was the coefficient of dispersion, which indicated the degree of aggregation of a species on the sea bottom. BENTH 4 presented the individual haul data of each station and summed the total density, wet and dry weight for each haul. This permitted quick scanning for aberrant results. The program was modified in its presentation format to block the data into the following major taxon groups: protozoa and lower

metazoa, errant polychaetes, sedentary polychaetes, mollusca, crustacea, echinoderms, and other metazoa and pisces. The data blocks were individually summed to display the relative density, biomass and component number of species for each taxon group. BENTH 6 ranked taxa within each station by frequency of occurrence, density, wet and dry biomass. Species that were ranked highly were likely to be significant to the ecosystem of the sampling area. As well, a program was devised to compute and rank taxa by Pamatmat's (1966) respiration index. This index weighted the dry organic matter of a species by its density, producing an index which, according to Pamatmat (1966), correlated with rankings of respiration rate (measured in $\mu\text{l O}_2/\text{hr}$). The index indicated species which, although not quantitatively remarkable in their dispersion, density or biomass, might represent significant energy flow routes within the ecosystem (Ellis, 1969).

(ii) Ecologically significant species

To avoid subjective bias in the interpretation of benthic data, Ellis (1969) used a number of quantifiable indices to indicate species that were ecologically potentially significant. Such species may warrant closer attention for environmental monitoring and autecological investigations. Species whose distribution, density, biomass or respiration index may suggest a major role in community structure or metabolism were delineated using the following criteria outlined by Ellis (1969).

Frequency: measured how widely dispersed was an organism in the area sampled. The index was computed as a percentage of the total number of replicates of a station that the organism was present. Only those species that occurred in 100% of the replicates were considered.

Density: the number of individuals of a species occurring in one square meter of sea bottom. Taxa were rank ordered by density and those taxa whose collective density equaled more than 50 percent of the total for that station were considered.

Biomass: the weight of a species in grams per square meter. Taxa were rank ordered by wet and dry weight biomass and those taxa whose collective biomass equaled more than 50 percent of the total for that station were considered.

Pamatmat's Respiration Index: the dry weight of a species, multiplied by its density. The 10 highest ranked taxa were selected, subject to a minimum cut-off value of 1.0.

(iii) Cluster analysis

Cluster analysis is a hierarchical-agglomerative-polythetic method of classification. Data is manipulated in presence-absence or quantitative form, and may be first normalized and standardized by an appropriate transformation. The similarity of samples by their species (Q-type, "normal analysis") or of species by their distribution in samples (R-type, "inverse analysis") is determined. The entities (samples, or species) are grouped into clusters on the basis of their similarities to each other. Clustering ends when all clusters have been joined together.

The infaunal sample data was analysed by normal and inverse cluster analysis to elucidate structural differences which might be present in the data matrix. As recommended by Sokal and Sneath (1963), the unweighted pair-group method of clustering based on average resemblance was used, a computerized version of which has been developed by E.M. Hagmeier (unpublished).

In pair-group average clustering, admission of a sample into a cluster is based on the average of the similarities of that sample with the other members of that cluster. The pair-group method permits only one sample or cluster to join another during any one cycle. Thus only the most highly correlated groups are allowed to join at each clustering cycle. In the unweighted method of sorting, all samples are weighted equally, so that one sample carries only a small proportion of the weight of the entire cluster to which it is being joined in determining its relation to that cluster.

Inter-sample similarities were computed first by Jaccard's Coefficient of Community (Sokal and Sneath, 1963):

$$J_c = \frac{\text{number of species in common}}{\text{number of species in sample A} + \text{number of species in sample B} - \text{number of species in common}}$$

This index operated with presence-absence data, and thus information was lost. The index is reputed to become sensitive only when very heterogeneous data is presented (Field and McFarlane, 1968). Based upon the recommendations of Field (1971) and Day *et al* (1971), the cluster analysis program was modified to incorporate the Czekanowski coefficient developed by Bray and Curtis (1957) for quantitative data:

$$C_z = \frac{2 \times \text{sum of the lesser measures of each species for samples A and B}}{\text{sum of the measures of all species in sample A} + \text{sum of the measures of all species in sample B}}$$

This index can be used on less heterogeneous systems. Beyond the advantages of more information retention, the Czekanowski coefficient also gives more weight to abundant species, which are less subject to sampling error. Excess weighting is reduced if the data is first log transformed ($\ln(x+1)$).

The large volume of data input for cluster analysis required an extensive and costly computer time. Based on the recommendations of Cassie and Michael (1968), Day *et al* (1971), Field (1971) and Hughes and Thomas (1971 a and b), those taxa occurring singly in less than 5% of the sample hauls (3 or less) were removed from the data deck prior to processing. This effectively removed 34 species, while reducing the total density figures by only 63 individuals. Although rare species might be selective in their distribution and thus good indicators of slight environmental change, their very rarity made them susceptible to sampling errors, precluding any reliable estimate of their distribution.

(iv) Zürich-Montpellier analysis

The Zürich-Montpellier method of classification is a procedure which can simultaneously classify sample hauls and species. The method is based on the Braun-Blanquet system of analysis of floristic associations and a form of the analysis has been computerized by Češka and Roemer (1971). The technique involves the rearrangement of the original data matrix so that hauls typified by particular groups of species are presented together and species typified by particular groups of hauls appear together. Species restricted to these haul groupings may then be recognized as indicators for habitat-types and as diagnostic species for community types. The Zürich-Montpellier method of benthos classification can be particularly useful in environmental monitoring programs because it can suggest both differing habitat-types and those species, which, by their distribution, characterize these habitats. Such differences can then be related to environmental disturbances.

In the computerized version, the data is run several times under increasingly rigorous constancy criteria for grouping. 66-20 criteria, for example, require that a diagnostic species occurs in at least 66% of the hauls belonging to the given group and in not more than 20% of the hauls outside of this group. As well, a haul belongs to the given group of diagnostic species only if it contains at least 66% of these diagnostic species. Constancy criteria used in the program are 50-10, 50-20, 66-10, 66-20 and 66-30. The species groups derived from the strictest tests can be regarded as the most stable ones representing the cores around which species of weaker associations are arranged (Češka and Roemer, 1971).

The data matrix was condensed to presence-absence form and run, as for cluster analysis, with rare species removed.

(v) Ordination

Classification methods such as cluster and Zürich-Montpellier analysis attempt to group samples or species into sets of classes. In an ordination, the relationships between the individual samples or species are presented, rather than the relationships between groups.

Ordination of data is a method of gradient analysis. With direct gradient analysis, the relative distribution of organisms is compared by plotting their abundance along known environmental gradients. Indirect gradient analysis works with the fauna as a whole. Analysis of the data matrix produces vectors which account in turn for increasing amounts of the variation in the matrix. The position of each sample is plotted against these vectors, i.e. ordinated. The correlation of environmental gradients to the vectors is determined with the first vector correlation being the most important. Thus in indirect gradient analysis, the environmental variables; and their relative importance in forming the observed faunistic distribution, is determined objectively.

One of the most powerful methods for extracting vectors is reciprocal averaging, an eigenvector method of ordination. Gauch *et al* (1976) found this method to be equally as good as the popular Bray and Curtis (1957) method of ordination and far superior to the widely used principal components analysis formulated by Goodall (1954). A computerized version of reciprocal averaging has been developed by H.G. Gauch, and was used in a form slightly modified by A. Češka for this analysis. The complete computational procedure is outlined by Hill (1973) and Gauch *et al* (1976).

As recommended by Field and Robb (1970) and Hughes and Thomas (1971 a and b), the data was reduced and transformed by $\log(x+1)$ and

Bray-Curtis double standardized to unit variance. The former transformation molded the data into a multivariate normal distribution and the latter accorded extra weight to rarer species, thus reducing the effect of common species absences from the data matrix.

Ordination methods, which were developed for phytosociological analysis, have just recently been applied to marine ecological studies. Examples of the use of ordination and its value in marine ecology can be found in Cassie and Michael (1968), Field and Robb (1970), Lie and Kelley (1970), Field (1971), Hughes and Thomas (1971 a and b) and Levings (1975). An extensive review of the application of this and other quantitative analytical procedures to benthic ecology was made during this thesis research but is reported separately (Conlan, 1975b).

(vi) Diversity and redundancy

Many environmental monitoring programs have employed a measure of diversity to describe and compare the "health" of faunal communities (Leppäkoski, 1975). Generally, community diversity shows a negative relation to the degree of environmental stress. As well, the structure of the community becomes strongly dominated by a few species, the remaining species being very rare. Summarizing these observed trends is Sanders' (1968) stability-time hypothesis. Where physiological stresses have been historically low, biologically accommodated communities evolve. As the gradient of physiological stress increases, resulting from increasing physical fluctuations or by increasingly unfavorable physical conditions, the biologically accommodated community gradually changes to a predominantly physically controlled community. In this latter type of community, stability, diversity and hence complexity is low.

The diversity of a collection is defined by both the number of component species and by the evenness of their abundance. A collection has high diversity if it has many species and their abundances are fairly even. A diversity index must measure both these parameters and as well be density independent. Of the many diversity indices applied to benthic associations, the Shannon-Weaver information function (Shannon and Weaver, 1963) best fits these criteria. The index is calculated as follows:

$$H' = - \sum_{i=1}^s P_i \log_2 P_i$$

where s equals the total number of species and P_i is the proportion of the total number of individuals represented by the i th species. A measure of the evenness (J) of the distribution of individuals among species is the actual diversity of the collection as a percent of the maximum diversity, $\log_2 s$.

(vii) Species-abundance relations

A community distribution model attempts to describe how the species of the community divide the resources available (Pielou, 1969). Lie (1969) found that the lognormal distribution, developed by Preston (1948), reasonably well described the infauna of Puget Sound. A plot of Ellis' (1968) data on shallow sand fauna of Fulford Harbour, British Columbia, also yielded a lognormal distribution (Hagmeier, personal communication). On the other hand, communities occurring in physically stressful situations could be better described by a geometric type relation (Whittaker, 1965).

The species of each station were ranked commonest to rarest and the rank of each species was plotted against its importance, measured as percent of the total population density, expressed in logarithms. The general shape of the resultant plots was then compared between stations. A sigmoid deviation indicated a departure of the population from a geometric-type distribution to a lognormal situation (Whittaker, 1965).

PART IV. Results and Discussion

A. ENVIRONMENTAL SURVEY

(i) Water quality

Measurements of surface and bottom water overlying the bark and adjacent sand bed show in Table 4.1 that biochemical oxygen demand and total sulfide were below detectable levels at both areas. A slightly greater level of total organic carbon was measurable in the interstitial water of the bark debris blanket, but this could not be significant in view of the large standard deviation.

These results substantiate conclusions drawn by Pease (1973) and Schaumburg (1973) for marine and freshwater log handling grounds, respectively. Water quality will unlikely be altered by such operations except in enclosed, poorly flushed bodies of water.

| Benthic Substrate | Depth (meters below chart datum) | | Biochemical Oxygen Demand (mg/l) | | Total Organic Carbon (mg/l) | | Total Sulfide (mg/l) | |
|-------------------|----------------------------------|------|----------------------------------|-----|-----------------------------|------|----------------------|-----|
| | \bar{X} | SD | \bar{X} | SD | \bar{X} | SD | \bar{X} | SD |
| SAND | 0.0 | 0.00 | <10.0 | N/A | 3.0 | 1.79 | <0.5 | N/A |
| | 4.3 | 3.21 | <10.0 | N/A | - | - | <0.5 | N/A |
| BARK | 0.0 | 0.00 | <10.0 | N/A | - | - | <0.5 | N/A |
| | 3.6 | 1.42 | <10.0 | N/A | 4.3 | 3.51 | <0.5 | N/A |

N/A = not applicable

Table 4.1 Water quality analysis of the surface and bottom water overlying the bark and sand beds. Total organic content of the bark fiber is that collected by syringe. All others were sampled by Niskin bottle.

(ii) Distribution of the bark fiber blanket

Figure 3.1 maps the distribution of bark debris deposited on the sea bottom around the log handling ground. The fiber blanket covers roughly 1 km² of sea bottom extending 1.2 km along the Mill Bay - McPhail Point coastline, to a depth of 10.5 m below chart datum. The deposit reaches more than 10 cm in thickness proximal to the abandoned dump at Verdier Point and the active grounds to the south, then thins between the two dumps and offshore. Sunken logs and large strips of bark are deposited around the active log dump, while at a distance smaller particles less than 5 cm in length predominate.

The infaunal sampling stations are located in bark debris ranging from zero to more than 15 cm in thickness (Table 4.2). Fifteen centimeters is greater than the penetration depth of most benthic organisms (Holme and McIntyre, 1971). The infaunal sampling stations, ordered by location in increasing thickness of bark fiber, are: 1, 2, 9, 10, 11, 13, 16, 12, 14, 7, 15, 8, 5, 3, 6, 4.

Figure 4.2 shows the relative bark deposit thickness at three of these stations as determined from sediment cores. A clear stratification into bark and sediment layers is visible.

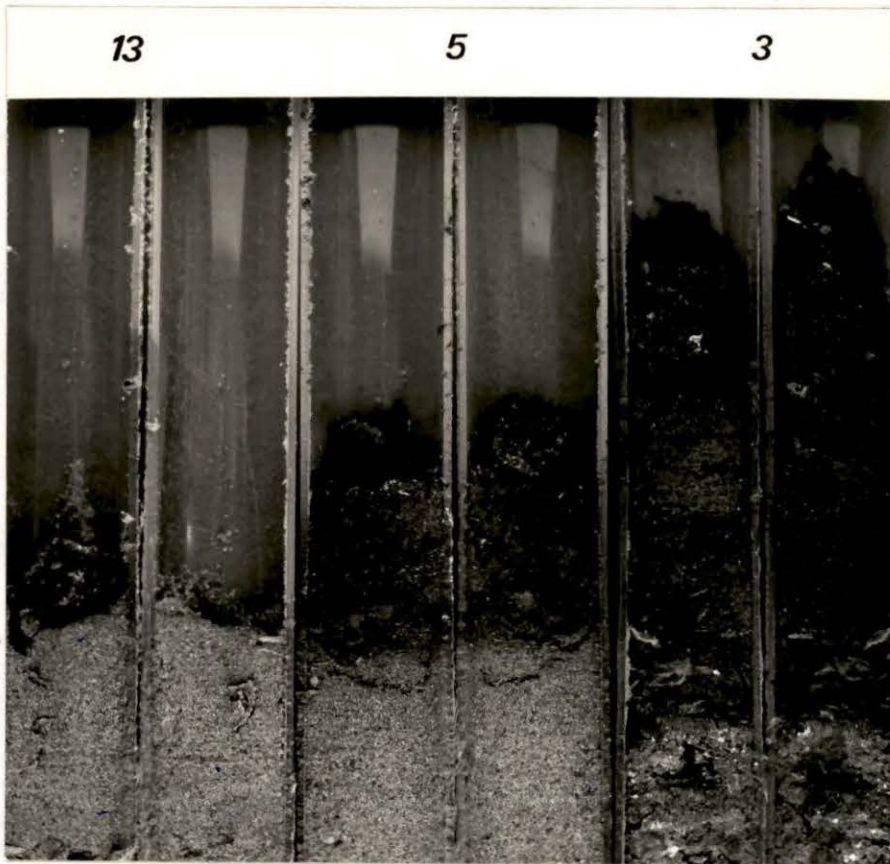
The mean values of bark deposit thickness at the fiber stations were tested for normal distribution (variance not significantly different at $p < .01$), then analysed for significant difference by a model I analysis of variance and an a posteriori Student-Newman-Keuls test. Results of the analyses in Tables 4.3, 4.4 and 4.5 show that bark fiber stations combined into four significantly differing groups. The thin fiber stations ranging in mean thickness from 0.8 to 2.7 cm differentiated from two pairs of stations representing 5.6 to 7.0 and 9.2 to 10.3 mean bark

TABLE 4.2 CHEMICAL AND PHYSICAL CHARACTERISTICS OF THE SEDIMENTS AT THE INFAUNAL SAMPLING STATIONS

*based upon the Shepard (1954) and Wentworth (1929) classifications

nd = not determinable

| Station No. | Sampling depth (meters below chart datum) | | Median grain size (mm) | % Silt-clay | Sediment description* | Bark deposit thickness (cm) | | % Total volatile solids content | | Temperature (°C) | | Salinity (ppt) | |
|-------------|---|------|------------------------|-------------|---------------------------------|-----------------------------|------|---------------------------------|-------|------------------|------|----------------|------|
| | \bar{x} | SD | | | | \bar{x} | SD | \bar{x} | SD | \bar{x} | SD | \bar{x} | SD |
| 1 | 4.9 | 0.21 | 0.4 | 1.3 | average sorted medium sand | 0.0 | 0.00 | 1.6 | 0.06 | 8.1 | 0.06 | 29.1 | 0.25 |
| 2 | 7.2 | 0.26 | 0.3 | 1.2 | well sorted medium sand | 0.0 | 0.00 | 1.6 | 0.06 | 8.0 | 0.00 | 29.3 | 0.65 |
| 3 | 5.1 | 1.06 | -- | 0.9 | gravelly sand | 9.2 | 2.59 | 36.3 | 3.01 | 8.1 | 0.00 | 28.8 | 0.29 |
| 4 | 5.0 | 0.36 | - | 0.8 | sand | >15.5 | N/A | 34.9 | 19.69 | 7.9 | 0.22 | 29.0 | 0.71 |
| 5 | 7.1 | 0.24 | - | 0.7 | sand | 7.0 | 1.67 | 27.7 | 8.20 | 8.1 | 0.00 | 29.0 | 0.00 |
| 6 | 4.0 | 0.23 | - | 1.1 | sandy gravel | 10.3 | 0.96 | 23.5 | 1.58 | 9.0 | 0.15 | 28.6 | 0.48 |
| 7 | 7.1 | 0.34 | - | 1.0 | gravelly sand | 1.8 | 1.26 | 16.9 | 4.00 | 9.0 | 0.00 | 28.5 | 0.71 |
| 8 | 4.8 | 0.25 | - | 1.5 | gravelly sand | 5.6 | 2.19 | 30.0 | 2.31 | 9.0 | 0.06 | 28.5 | 0.58 |
| 9 | 4.8 | 0.40 | 0.3 | 2.5 | well sorted medium sand | 0.0 | 0.00 | 1.3 | 0.10 | 8.0 | 0.00 | 29.1 | 0.63 |
| 10 | 7.8 | 0.48 | 0.8 | 1.5 | average sorted coarse sand | 0.0 | 0.00 | 1.4 | 0.06 | 7.6 | 0.16 | 29.0 | 1.08 |
| 11 | 10.9 | 1.04 | 0.4 | 1.4 | well sorted medium sand | 0.0 | 0.00 | 1.6 | 0.23 | 8.0 | 0.06 | - | - |
| 12 | 10.3 | 0.70 | 1.2 | 1.3 | average sorted very coarse sand | 0.8 | 0.71 | 12.9 | 2.01 | 8.1 | 0.00 | - | - |
| 13 | 10.8 | 0.37 | 0.4 | 1.6 | average sorted medium sand | 0.0 | 0.00 | 1.4 | 0.10 | 8.9 | 0.12 | - | - |
| 14 | 7.4 | 0.67 | 0.4 | 1.4 | average sorted medium sand | 0.9 | 0.65 | - | - | 7.5 | 0.00 | - | - |
| 15 | 7.3 | 0.32 | 0.5 | 2.1 | average sorted medium sand | 2.7 | 2.52 | - | - | 7.5 | 0.00 | - | - |
| 16 | 7.5 | 0.06 | 0.5 | 0.5 | average sorted medium sand | 0.0 | 0.00 | - | - | 7.5 | 0.00 | - | - |



0 1 2 3 4 5
cm

Figure 4.2 Sediment cores from control station 13 and fiber stations 3 and 5, showing the relative thickness of bark debris. No bark occurs at station 13; dark material at the sediment surface is algae. Well sorted sand occurs at station 13 and below the bark at station 5. Shell and pebble mix with sand at station 3. Note the bark stratification at station 3. The lower 3 cm is very coarse, covered by a thicker layer of fine fiber.

Table 4.3 Model I single classification analysis of variance for bark deposit thickness at each fiber station. May 1975 and January 1976 data.

| Source of variation | Degrees of freedom | Sum of squares | Mean squares | F_s |
|---------------------|--------------------|----------------|--------------|---------|
| Among stations | 7 | 503.72 | 71.96 | 26.95** |
| Within stations | 32 | 85.37 | 2.67 | |

$F_{.05}[7, 32] = 2.31$ $F_{.01}[7, 32] = 3.27$ $F_{.001}[7, 32] = 4.78$
 Conclusion: There is a significant ($p < .001$) added variance component among stations for bark deposit thickness

Table 4.4 Student-Newman-Keuls test for significant differences in mean bark deposit thickness at each bark fiber station. Sample ranges are compared with the least significant range computed for each pair of samples.

| Rank | Mean bark thickness (cm) | Number of observations | Rank | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------|--------------------------|------------------------|-------------|--------|--------|-----|-------|--------|-------|--------|------|
| | \bar{Y}_c | n_i | \bar{Y}_c | 0.8 | 0.9 | 1.8 | 2.7 | 5.6 | 7.0 | 9.2 | 10.3 |
| | | | n_i | 8 | 5 | 4 | 3 | 5 | 6 | 5 | 4 |
| 1 | 0.8 | 8 | | - | | | | | | | |
| 2 | 0.9 | 5 | | 0.1 | - | | | | | | |
| 3 | 1.8 | 4 | | 1.0 | .9 | - | | | | | |
| 4 | 2.7 | 3 | | 1.9 ns | 1.8 ns | .9 | - | | | | |
| 5 | 5.6 | 5 | | 4.8** | 4.7** | 3.8 | 2.9* | - | | | |
| 6 | 7.0 | 6 | | 6.2** | 6.3** | 5.2 | 4.3** | 1.4 ns | - | | |
| 7 | 9.2 | 5 | | 8.4** | 8.3** | 7.4 | 6.5** | 3.6** | 2.2** | - | |
| 8 | 10.3 | 4 | | 9.5** | 9.4** | 8.5 | 7.6** | 4.7** | 3.3** | 1.1 ns | - |

* tested and found to be significant at $p = 0.05$

** tested and found to be significant at $p = 0.01$

ns tested and found to be not significant at $p = 0.01$

unmarked differences were not tested because a larger range was found to be not significant.

Table 4.5 Array of ranked means for bark deposit thickness.

Values underlined are not significantly different ($p < 0.05$)

| | | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|-----|-----|-----|------|-------|
| Station number | 12 | 14 | 7 | 15 | 8 | 5 | 3 | 6 | 4 |
| Mean bark deposit thickness (cm) | 0.8 | 0.9 | 1.8 | 2.7 | 5.6 | 7.0 | 9.2 | 10.3 | >15.5 |

thickness. The most heavily covered station 4 separated from the others by virtue of the bark debris being too thick to determine. The four significant groups, representing mean thickness values of 1.6, 6.3, 9.8 and >15.5 cm respectively, may be of ecological significance in differentiating faunistic distributions.

The percent total volatile solids content of the benthic substrate roughly increased with bark deposit thickness (Table 4.2). Levels were below 1.6% in the control sediments, increased to roughly 17% in the thinly blanketed stations, then doubled where bark cover was most thick. These levels were comparable with total volatile solids content of fresh water and estuarine sediments (Williamson, 1970; Schaumburg, 1973; Walker, 1973). Williamson (1970) noted a highly positive correlation between total volatile solids and proximity to log dump and storage areas. The mean volatile solids level at station 3, located at the abandoned log dump, was not as low as might be expected for decomposing wood. Wood debris may trap fine clay and detritus particles or act as a substrate for bacteria and small organisms, all of which would increase the observed total volatile solids content of a sample.

(iii) Benthic sediments

Figure 3.1 displays the particulate structure of benthic sediments deposited along the Mill Bay-McPhail Point coastline. Modal sediment particle size is described by the Shepard (1954) classification. Sands were the prominent substrate type throughout the control area and below the bark fiber bed. At shallow depths gravel interspersed, but pure sand predominated beyond the 20 fm (36.6 m) line. The sediment type below the bark fiber bed was essentially the same as in the outerlying control. This suggests that sands lay at the log handling ground prior to bark deposition and formed part of a large bed, running at least from McPhail Point north to Mill Bay.

Benthic infaunal sampling positions marked on Figure 3.1 illustrate the relative depths and sediment features of each. Table 4.2 elaborates on the physical and chemical characteristics of each station. The stations lie on three depth contours, the mean and 95% confidence limits being $4.8 \pm 0.21\text{m}$, $7.3 \pm 0.16\text{m}$, $10.7 \pm 0.42\text{m}$ below chart datum.

Comparison of mean sampling depth variances for each station in Table 4.6 showed that differences between replicates were not significant and thus values were normally distributed. Model I analysis of variance of each depth profile (Table 4.7) revealed that the component station depths did not significantly differ ($p < .001$) within each contour, but a Student-Newman-Keuls test (Table 4.8) showed that there was a significant depth difference between the contours ($p < .01$).

Some variation in the biota therefore may be attributable to depth. Whether it is depth per se, or some associated factor, cannot be ascertained. It is probable, however, that sediment differences are not a factor as variability is slight (Table 4.2). All stations are characterized by a

Table 4.6 F_{\max} test for homogeneous variances of station sampling depths.

| Sampling depth contour (meters below chart datum) | Maximum variance | Minimum variance | F_{\max}^* | F.05 | F.01 |
|---|------------------|------------------|--------------|------|------|
| 4.8 | 1.12 | 0.04 | 28.0(ns) | 29.5 | 69 |
| 7.3 | 0.45 | 0.01 | 24.7(ns) | 333 | 1705 |
| 10.7 | 1.08 | 0.14 | 7.71(ns) | 15.5 | 37.0 |

$$* F_{\max} = \frac{\text{Maximum variance}}{\text{Minimum variance}}$$

ns = not significant at $p = .01$

CONCLUSION: the variances of each sampling depth profile are homogeneous and can be assumed to come from a normal population

Table 4.7 Model I analyses of variance for sampling depth at all stations

| Test | Source of variation | Degrees of freedom | Sum of squares | Mean squares | F _s | Critical F | | Conclusion |
|--|---------------------|--------------------|----------------|--------------|----------------|------------|------|---|
| | | | | | | .05 | .01 | |
| 4.8 m contour stations | Among groups | 5 | 177.41 | 1.12 | 0.16 | 2.62 | 3.90 | No significant (p=.01) added variance component among the 4.8m stations for sampling depth |
| | Within groups | 24 | -167.36 | 6.97 | | | | |
| 7.3 m contour stations | Among groups | 6 | 2.36 | 0.39 | 0.21 | 2.51 | 3.67 | No significant (p=.01) added variance component among the 7.3 m stations for sampling depth |
| | Within groups | 24 | 43.86 | 1.83 | | | | |
| 10.7 m contour stations | Among groups | 2 | 1.27 | 0.64 | 1.01 | 3.89 | 6.93 | No significant (p=.01) added variance component among the 10.7 m stations for sampling depth |
| | Within groups | 12 | 7.59 | 0.63 | | | | |
| comparison of the three depth contours | Among groups | 2 | 352.69 | 176.35 | 198.15** | 3.13 | 4.94 | There is a significant (p<<.001) added variance component among the three contours for sampling depth |
| | Within groups | 73 | 65.06 | 0.89 | | | | |

Table 4.8 Student-Newman-Keuls test for significant differences in sampling depth means between the three sets of contour stations. Sample ranges are compared with the least significant range computed for each pair of samples.

| Rank | Mean depth (m below CD) \bar{Y}_c | Number of observations n_i | Rank | 1 | 2 | 3 |
|------|---|------------------------------------|-------------|-------|-------|------|
| | | | \bar{Y}_c | 4.8 | 7.3 | 10.7 |
| | | | n_i | 30 | 31 | 15 |
| 1 | 4.8 | 30 | | - | | |
| 2 | 7.3 | 31 | | 2.5** | - | |
| 3 | 10.7 | 15 | | 5.9** | 3.4** | - |

** Tested and found to be significant at $p = 0.01$

well sorted sand retaining very little silt-clay. The consistently low organic content of control sediments, as well as the constancy of temperature and salinity in overlying waters during each sampling period shows that the chemical and physical nature of the Mill Bay coast is not unlike that described by Herlinveaux (1962) and is furthermore very homogeneous.

B. EPIFAUNAL SURVEY

Macroalgae and large epifauna which were observed during scuba observations at the infaunal sampling stations are listed in Table 4.9. Algal distribution varied somewhat with depth. Abundance was greatest at the 4.7 m and 7.3 m stations, diminishing to less than 50% cover at the 10.7 m contour. The algae at shallower depths were predominantly species of Chlorophyta and Phaeophyta, but the Rhodophyta increased in dominance at the deepest stations. The presence of bark and wood debris as an attachment substrate for algae, as opposed to sand, shells and pebbles in the control sediments, did not appear to alter algal abundance. Sessile animals such as anemones, gastropods and starfish were also found attached to pieces of bark and wood, suggesting that the bark deposit was a quite stable substrate.

The epifauna of the fiber and sand beds resembled each other in species number and composition. Some distributional differences, however, suggested that there were preferences for certain depths and substrate type. The anemone *Metridium senile* and three species of crabs, *Cancer productus*, *Hyas lyratus* and *Pugettia gracilis* occurred distinctly more frequently at bark stations than in controls. Conversely, the geoduck *Panope generosa*, the starfish *Mediaster aequalis*, the sea pen *Ptilosarcus gurneyi* and the groundfish appeared more often in the control group of stations. Depth preferences were also apparent for some organisms: *Metridium senile*, *Hermisenda crassicornis*, *Tresus capax*, *Cancer gracilis*, *C. productus*, *Evasterias troschelii* and *Pycnopodia helianthoides* occurred more frequently at shallower depths. *Panope generosa*, *Lophopanopeus bellis*, *Mediaster aequalis* and *Ptilosarcus gurneyi* were more frequent at greater depths.

Table 4.9 Distribution of epibiota at infanal sampling stations. Algae are recorded by percent cover; fauna are recorded by presence-absence (signified by x). Depth profile and bark deposit thickness are also noted for each station.

| Station no. | Depth contour (meters below chart datum) | Bark thickness (cm) | Macroalgae | | | Coelenterata | Mollusca | Crustacea | Echinodermata | Pisces | Egg Mass | Number of species |
|-------------|---|---------------------|-------------|------------|------------|--------------|----------|-----------|---------------|--------|----------|-------------------|
| | | | Chlorophyta | Phaeophyta | Rhodophyta | | | | | | | |
| 1 | 4.8 | 0 | 20 | 50 | 0 | | | | | | | 14 |
| 2 | 7.3 | 0 | 45 | 30 | 0 | x | | | | | | 19 |
| 3 | 4.8 | 9.2 | 75 | 15 | 5 | | | | | | | 12 |
| 4 | 4.8 | 5.5 | 75 | 10 | 0 | x | | | | | | 13 |
| 5 | 7.3 | 7.0 | 15 | 20 | 0 | | | | | | | 9 |
| 6 | 4.8 | 10.3 | 5 | 30 | 0 | | | | | | | 9 |
| 7 | 7.3 | 1.8 | 10 | 45 | 5 | x | | | | | | 13 |
| 8 | 4.8 | 5.6 | 15 | 65 | 1 | x | | | | | | 12 |
| 9 | 4.8 | 0 | 20 | 35 | 5 | | | | | | | 13 |
| 10 | 7.3 | 0 | 5 | 25 | 0 | x | | | | | | 13 |
| 11 | 10.7 | 0 | 10 | 15 | 10 | | | | | | | 17 |
| 12 | 10.7 | 0.8 | 10 | 5 | 5 | x | | | | | | 14 |
| 13 | 10.7 | 0 | 5 | 5 | 5 | x | | | | | | 8 |

The assessment of organisms too widespread or deep burrowing to be caught by conventional remote samplers may be an important addition of information to benthic faunal analysis. This is especially so in shallow coastal studies where species which are commercially important or contribute extensively to the population biomass can be overlooked by remote sampling. Three such organisms, the horseclam *Tresus*, the geoduck *Panope* and the groundfish were examples. Each species' distribution showed some response to environmental factors. The former was absent from deep water while the latter pair were infrequently found where bark had deposited.

In conclusion, response to substrate type and depth is evident in some of the epibiota observed. Bark and wood chips must provide a stable and varied substrate as sessile and cryptic fauna appeared to prefer this material. McDaniel (1973) noticed a similar response in Howe Sound, B.C. The widespread distribution of the majority of organisms, however, suggests a conclusion similar to that of Pease (1973): that substrate alteration may not be a critical factor to many epibiota.

C. INFAUNAL SURVEY

(i) Population statistics

Infaunal density and biomass, recorded for the May 1975 and January 1976 sampling cruises (stations 1 to 13 and 14 to 16, respectively), are listed in Appendix IV. A scan of the data printout indicated two potentially aberrant hauls. The overwhelming abundance of *Platynereis bicanaliculata* in haul 1-4 and the unexpected absence of the dense Foraminifera sp. 1 in haul 1 of station 12 made these samples appear aberrant for further statistical analysis. The observed anomalies could be explained by the aggregative habit of *Platynereis bicanaliculata* and the shallower sampling depth of haul 12-1 (9.1 m as compared to the station mean of 10.3 m). However, because the remaining component species types, density and overall biomass of hauls 1-4 and 12-1 resembled those of similar replicates, they were not removed from the data matrix.

The densities of Foraminifera sp. 1 exceeded the three digits allowable in the computer analysis programs. Thus a code of 999 was entered, which, although it underestimated the true population density, was large enough to distinguish this species as an extremely abundant organism. The population density of Foraminifera sp. 1 for each of hauls 12-2 to 12-5, as estimated by subsampling, was , 6298, 5212, 7511, 6864 individuals per 0.1 m², respectively.

(ia) Spatial differences

Table 4.10 summarizes infaunal density and biomass at each sampling station and lists the relative percentage of each that is accounted for by the major taxon groups. Infaunal density ranged from 2240 individuals/m² at station 5 to 58936 individuals/m² at station 12. This compared well with other figures, computed by similar techniques, for the benthos of temperate seas: 2356 individuals/m² near Plymouth Sound, England (Mare, 1942), 4554 to 7451 individuals/m² in an enclosed Scottish loch (Raymont, 1949), 5563 to 46,398 individuals/m² in Long Island Sound, USA (Sanders, 1956), 8985 individuals/m² in Buzzards Bay, USA (Sanders, 1960), and 11,518 individuals/m² at Boatswain Bank (Ellis, 1967), located 9.5 km due north of Mill Bay.

Dry weight biomass ranged from 4.8 gm/m² at station 15 to 32.9 gm/m² at station 2. This was greater than for the deeper water benthos of the Northumberland Coast (80 m depth, 4.0 gm/m² mean ash-free dry weight) (Buchanan and Warwick, 1974). However, it was comparable to dry weight biomass at similar depths in both the arctic (Thorson, 1957) and in temperate regions: 4.0 to 54.6 gm/m² determined by Sanders (1956), 3 to 19 gm/m² computed by Raymont (1949) and 8.4 gm/m² and 9.7 gm/m² determined respectively by Ellis (1967) and Lie (1968) for shallow coastal sand beds.

A plot of total infaunal abundance in Figure 4.3 shows that densities were fairly uniform, with exceptions at stations 4 and 12. The former anomaly was created by the large increase in numbers of three small crustaceans: the tanaid *Leptochelia savignyi*, the wood-boring gribble *Limnoria lignorum*, and the leptostracan, *Nebalia pugettensis*. The large numbers found at station 12 were caused by Foraminifera sp. 1.

Table 4.10 Summary of relative density, biomass and number of species at each station. Stations 1-13 were sampled in April-May, 1975. Stations 14, 15 and 16 were sampled in January, 1976.

| TOTAL FAUNA | | | | | | | DENSITY (% Of total) | | | | | | | | DRY WT BIOMASS % | | | | | | NO. OF SPECIES % | | | | | | | | | | | | |
|-------------|----------------------------|----------------------------------|-------------------------|------------------------------|------|---------------------------|----------------------|--------|-------------|-----------|-------------|----------|-----------|-------------|------------------|----------|--------|-------------|-----------|-------------|------------------|-----------|-------------|--------|----------|--------|-------------|-----------|-------------|----------|-----------|-------------|--------|
| Station | Sampling depth contour (m) | Mean bark deposit thickness (cm) | DENSITY /m ² | BIOMASS (gm/m ²) | | MAXIMUM NUMBER OF SPECIES | Protozoa | Errant | Polychaetes | Sedentary | Polychaetes | Mollusca | Crustacea | Echinoderms | Others | Protozoa | Errant | Polychaetes | Sedentary | Polychaetes | Molluscs | Crustacea | Echinoderms | Others | Protozoa | Errant | Polychaetes | Sedentary | Polychaetes | Mollusca | Crustacea | Echinoderms | Others |
| | | | | WET | DRY | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4.8 | 0 | 5564 | 137.6 | 14.9 | 64 | 1 | 28 | 16 | 23 | 23 | 1 | 9 | 1 | 59 | 30 | 4 | 2 | 4 | 1 | 3 | 23 | 28 | 14 | 23 | 4 | 5 | | | | | | |
| 2 | 7.3 | 0 | 6132 | 254.6 | 32.9 | 58 | 1 | 8 | 19 | 39 | 23 | 0 | 9 | 0 | 24 | 72 | 3 | 0 | 0 | 0 | 5 | 20 | 29 | 17 | 20 | 4 | 6 | | | | | | |
| 3 | 4.8 | 9.2 | 2896 | 79.2 | 7.1 | 40 | 2 | 47 | 22 | 2 | 26 | 0 | 1 | 9 | 54 | 14 | 21 | 1 | 0 | 0 | 5 | 34 | 29 | 4 | 24 | 1 | 0 | | | | | | |
| 4 | 4.8 | >15.5 | 11374 | 111.4 | 7.1 | 30 | 1 | 17 | 3 | 2 | 78 | 0 | 0 | 2 | 59 | 1 | 11 | 13 | 13 | 0 | 6 | 37 | 13 | 4 | 37 | 2 | 1 | | | | | | |
| 5 | 7.3 | 7.0 | 2240 | 51.8 | 5.5 | 39 | 3 | 28 | 29 | 2 | 39 | 0 | 0 | 5 | 79 | 9 | 1 | 1 | 0 | 1 | 6 | 32 | 26 | 5 | 30 | 2 | 1 | | | | | | |
| 6 | 4.8 | 10.3 | 5356 | 58.6 | 6.3 | 46 | 1 | 40 | 6 | 1 | 51 | 0 | 2 | 1 | 87 | 3 | 5 | 3 | 0 | 1 | 5 | 30 | 19 | 6 | 35 | 3 | 3 | | | | | | |
| 7 | 7.3 | 1.8 | 4536 | 75.6 | 8.1 | 49 | 2 | 23 | 47 | 3 | 23 | 0 | 0 | 6 | 42 | 40 | 7 | 2 | 1 | 3 | 4 | 29 | 30 | 7 | 26 | 3 | 1 | | | | | | |
| 8 | 4.8 | 5.6 | 3110 | 102.2 | 9.3 | 37 | 1 | 34 | 12 | 2 | 50 | 0 | 0 | 1 | 59 | 9 | 27 | 0 | 1 | 3 | 5 | 28 | 26 | 7 | 31 | 2 | 1 | | | | | | |
| 9 | 4.8 | 0 | 4424 | 96.2 | 9.3 | 58 | 1 | 15 | 18 | 32 | 34 | 0 | 1 | 5 | 44 | 27 | 13 | 2 | 2 | 7 | 3 | 16 | 24 | 13 | 26 | 4 | 5 | | | | | | |
| 10 | 7.3 | 0 | 5180 | 240.8 | 30.5 | 62 | 2 | 11 | 33 | 38 | 14 | 0 | 2 | 4 | 18 | 75 | 3 | 0 | 0 | 0 | 5 | 21 | 29 | 14 | 23 | 3 | 5 | | | | | | |
| 11 | 10.7 | 0 | 6184 | 434.0 | 19.6 | 63 | 1 | 8 | 72 | 10 | 9 | 0 | 1 | 1 | 20 | 71 | 6 | 0 | 0 | 0 | 4 | 23 | 31 | 14 | 21 | 2 | 4 | | | | | | |
| 12 | 10.7 | 0.8 | 58936 | 95.0 | 6.1 | 60 | 99 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 44 | 60 | 27 | 1 | 3 | 2 | 5 | 19 | 30 | 17 | 23 | 4 | 2 | | | | | | |
| 13 | 10.7 | 0 | 4542 | 234.0 | 15.1 | 61 | 1 | 17 | 55 | 13 | 11 | 0 | 2 | 0 | 35 | 52 | 11 | 0 | 0 | 0 | 5 | 22 | 31 | 14 | 24 | 1 | 4 | | | | | | |
| 14 | 7.3 | 0.9 | 2972 | 65.2 | 6.9 | 56 | 3 | 18 | 47 | 3 | 27 | 1 | 1 | 3 | 36 | 35 | 4 | 1 | 1 | 20 | 5 | 24 | 28 | 8 | 3 | 3 | 3 | | | | | | |
| 15 | 7.3 | 2.7 | 3368 | 48.2 | 4.8 | 48 | 3 | 20 | 35 | 3 | 39 | 0 | 0 | 13 | 22 | 46 | 10 | 1 | 0 | 6 | 5 | 25 | 32 | 11 | 17 | 1 | 2 | | | | | | |
| 16 | 7.3 | 0 | 4076 | 199.6 | 20.2 | 73 | 1 | 15 | 46 | 18 | 19 | 0 | 1 | 0 | 32 | 60 | 4 | 0 | 2 | 3 | 5 | 22 | 30 | 13 | 24 | 2 | 4 | | | | | | |

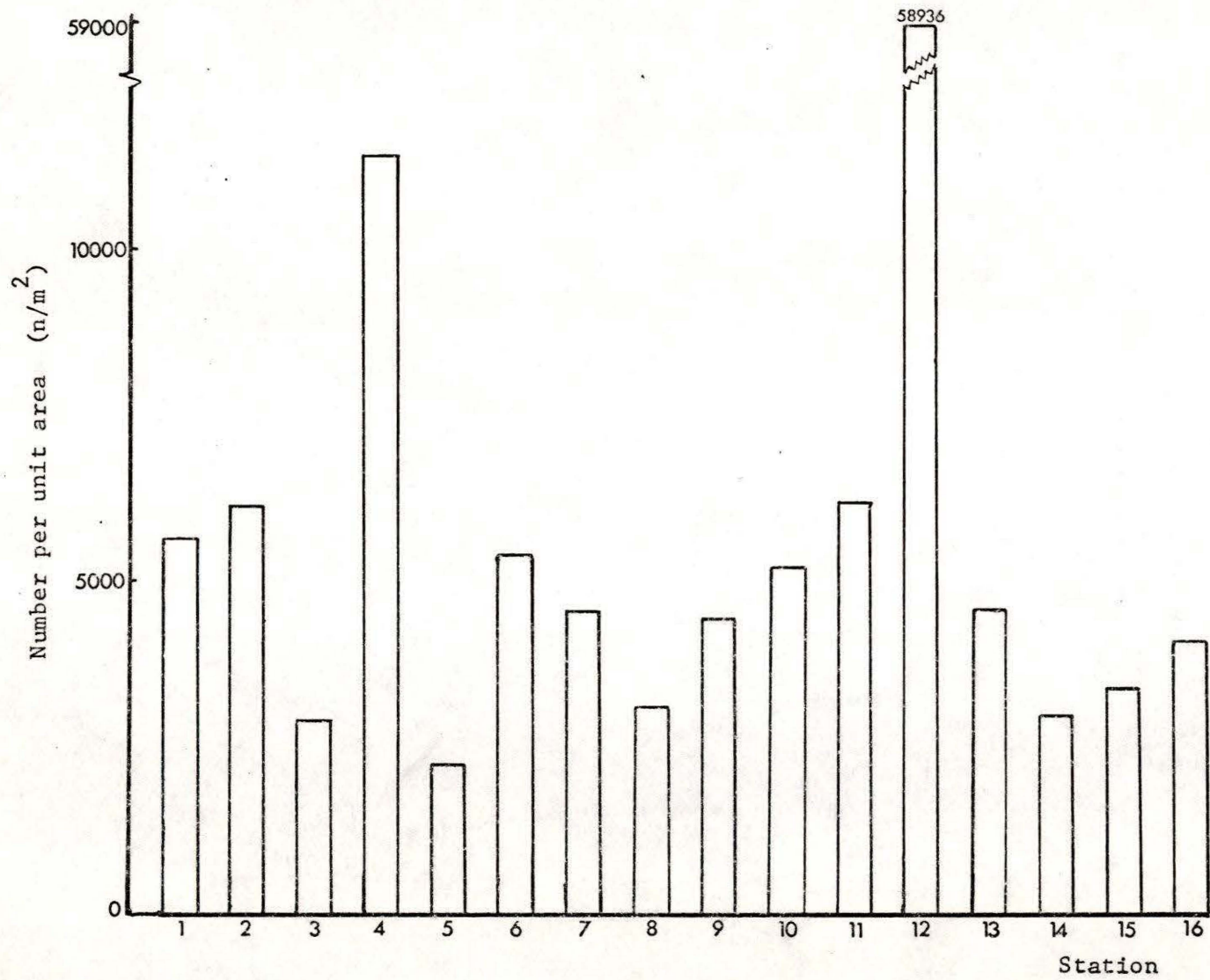


Figure 4.3 Infaunal density at each station

All four species, being small, did not account for a comparable proportion of the population biomass.

As is illustrated in Figure 4.4, infaunal dry weight biomass was generally more variable and some trends were apparent. Comparison of the seven control stations, 1, 2, 9, 10, 13 and 16 showed that infaunal biomass was greatest at the 7.3 m stations (2, 10, 16) and least at the shallowest stations (1 and 9). The same depth trends did not appear in the bark deposit stations. Infaunal biomass was clearly reduced at all stations covered by bark. No return to control levels, as bark debris thinned, was apparent, even at stations where fiber was less than 1 cm thick (stations 12 and 14). A similar marked infaunal response to large particulate deposits was documented for a pulp mill effluent receiving ground (Ellis, 1970) and in natural circumstances where the large flat shells of *Crassostrea virginica* were found blanketing the sea bottom (Sanders, 1956).

The relative abundance and biomass of the major taxon groups inhabiting the benthos is outlined in Table 4.10. With the exception of station 12, where Foraminifera sp. 1 was exceedingly abundant, the major portion of the population density and biomass was held by the polychaetes, molluscs and crustaceans. Molluscan populations appeared to closely follow depth and substrate gradients. Figure 4.5 shows that molluscan abundance was greatest at the control stations and varied with depth in the same manner as was noted for the full benthic population. Again, with less than 1 cm fiber cover, molluscan numbers fell to half the level of comparable controls, and decreased farther as the bark debris thickened.

A plot of molluscan biomass at each station (Figure 4.5) suggested

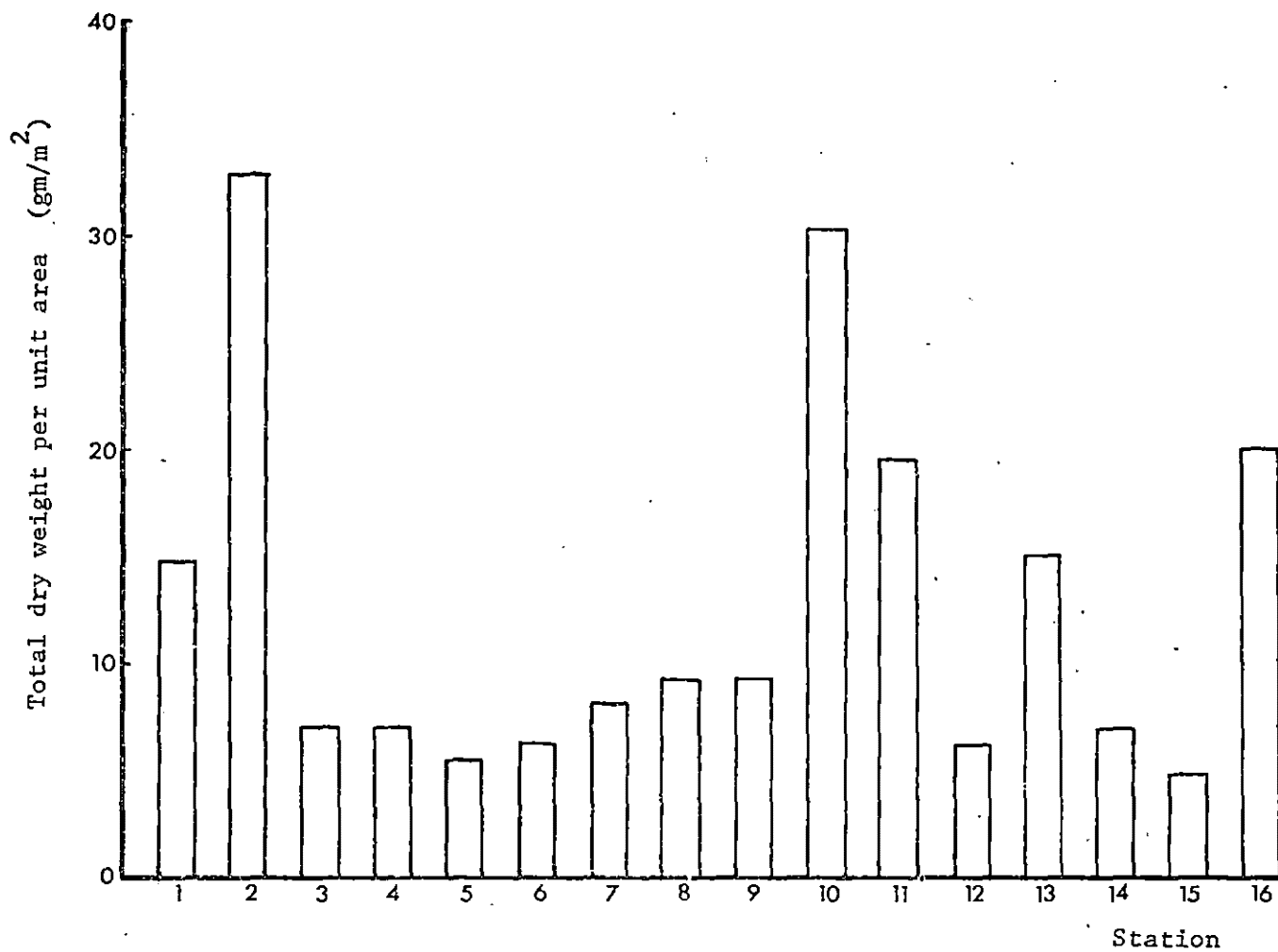


Figure 4.4 Infaunal dry weight biomass at each station

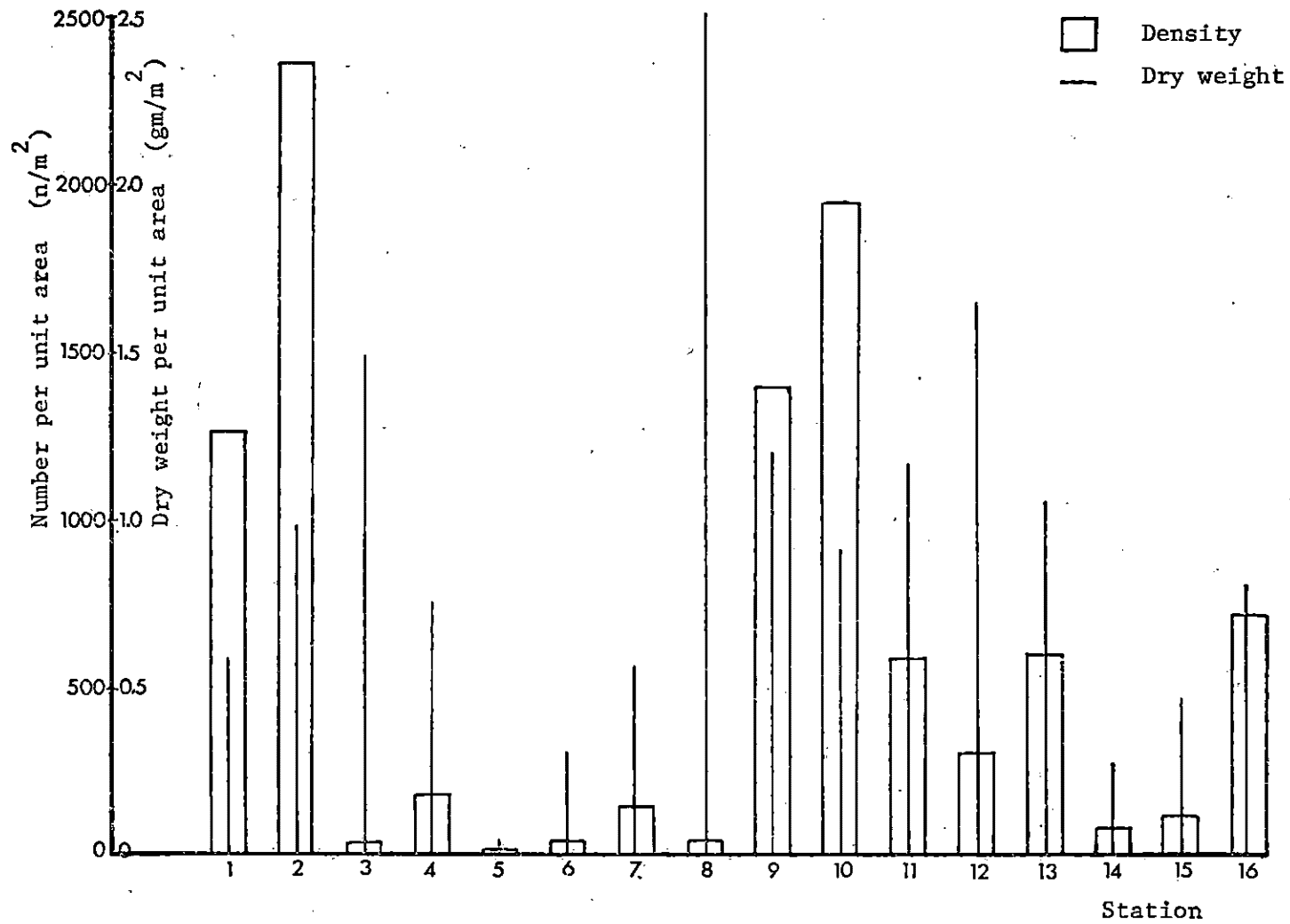


Figure 4.5 Molluscan density and dry weight biomass at each station

that it was the larger molluscs which persisted in the fiber. The bivalves *Lucinoma tenuisculpta* and *Macoma nasuta* consistently accounted for a large proportion of the molluscan biomass here. Only in the thickest section of the fiber blanket were they excluded, leaving *Bankia setacea* as the sole representative of the pelecypoda.

A likely reason for the molluscan distribution in the fiber blanket is given by the life history of each. *Bankia setacea* is the common shipworm and spends all its adult life tunnelling through and eating wood (Morton, 1967). *Macoma* is known for its low metabolic rate, slow growth and a long life span (Thorson, 1957). *Lucinoma* is characteristic of impoverished substrates, the reason being that such a habitat is characterized by a deficiency of finely divided food material (Purchon, 1968). *Lucinoma* is specialized in accepting larger particles and thus exists where other bivalves cannot. It therefore appears that each species was well adapted to conditions produced by the deposition of bark.

(ib) Temporal differences

As illustrated in Figures 4.3, 4.4 and 4.5, it was evident that some temporal variability occurred in both the sand and fiber bed infauna. Winter populations were reduced in density and biomass by 20 to 30 percent. In the sand bed, this was largely due to fluctuations in abundance of the polychaete dominants *Mesochaetopterus taylori* and *Onuphis elegans*, and the bivalve *Myrella tumida*. In the fiber blanket, a marked proliferation of the sedentary polychaete *Armandia brevis* was evident, but otherwise the same spring dominants such as the polychaetes *Dorvillea annulata*, *Prionospio* sp. and *Lumbrinereis* sp. were present.

From this it appears that the seasonal variation at Mill Bay is largely quantitative. Community species composition in both areas may be quite stable.

(ii) Ecologically significant species.

Table 4.11 lists the species selected which, by their distribution, abundance, biomass or a combination of the latter two factors, may be ecologically significant members of the infaunal population inhabiting the fiber blanket and adjacent sandy sediments of the study area. It is immediately apparent that many of the species fulfilled at least one of the four significance criteria. Many, as well, were widespread and frequent.

The sandy control stations closely resembled each other in species composition, although depth trends were apparent. The polychaetes *Mesochaetopterus taylori*, *Notomastus tenuis* and the bivalve *Mysella tumida* were highly significant by the quantitative criteria at the 7.3 m stations. These species were joined at the deeper stations by another chaetopterid polychaete, *Phyllochaetopterus prolifica*. These organisms also appeared as dominants in a shallow sand bed (Boatswain Bank) at the mouth of Saanich Inlet (Ellis, 1967) and in sand beds of Puget Sound to the south (Wennekens, 1959; Lie, 1968). The dominants may be indicative of such depths and sediment in fjords of the southern British Columbia and northern Washington coast.

The control station dominants persisted in reduced numbers in the fringes of the fiber blanket while other less conspicuous species such as the polychaetes, *Lumbrinereis* sp. and *Prionospio* sp. and the bivalve *Lucinoma tenuisculpta* became ecologically significant. Where the bark deposit thickened beyond 2.7 cm at station 15, the sand bed dominants were severely reduced or eliminated. Other dominants appeared which were foreign to or rarely found in the sand bed. These were the errant polychaetes *Dorvillea annulata* and the two species of Hesionidae, and

Table 4.11 Species indicated as ecologically significant by at least one of four criteria: frequency, density, wet weight biomass, Pamatmat's respiration index. The species are ranked by the frequency of being significant. Full species names are given in Appendix III

| Station no. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|--|-----|---|---|---|--|--|--|---|--|
| Mean bark thickness (cm) | 0 | 0 | 9.2 | >15.5 | 7.0 | 10.3 | 1.8 | 5.6 | |
| Depth contour (m) | 4.8 | 7.3 | 4.8 | 4.8 | 7.3 | 4.8 | 7.3 | 4.8 | |
| Number of times ecologically significant | 4 | | PLAT BIC | | | | PRIONOSP | | |
| | 3 | PLAT BIC NEPHTYS 1 MESO TAY MYS TUMI PROTOMED | MESO TAY MYS TUMI PROTOMED | DORV ANN PRIONOSP HES'IDAE | NEB PUG LIMN LIG LEPT SAV | DORV ANN | PLAT BIC DORV ANN HES'IDAE NEB PUG LEPT SAV GLYC AME | LUMBRINE LUCI TEN PHY GRO NEMERTEA | DORV ANN PHOX'DAE |
| | 2 | NOTO TEN OWEN FUS ONU ELEG AXIN SER PHOLO MI AMP'ISCA | NEPHTYS 1 AXIO RUB ONU ELEG NOTO TEN PHOLO MI PINN OCC | NEMERTEA MACOMA POLYCIRR | PLAT BIC DORV ANN BANK SET HES'IDAE PINN OCC NEMERTEA CAL GIG | HES'IDAE NEMERTEA HEMIG OR LAON CIR NER BRAN GLYCINDE PLAT BIC POLYCIRR | HEMIG OR GLYCINDE | LAON CIR MAL'IDAE PLAT BIC HAPLO EL AXIO RUB | PLAT BIC HES'IDAE MACOMA LUMBRINE PRIONOSP GLYCINDE GLYC AME LAON CIR |
| | 1 | NEMERTEA GLYCINDE LUMBRINE PHY GRO PHY MAC CAP'IDAE CIR'INAE MAL'IDAE POLYCIRR POLYDORA PRIONOSP PS SAB L TELLINA DIASTYLI LEPT SAV PINN OCC PHORONID MASS:HAR | NEMATODA EUL SANG GLYCINDE PHY GRO CAP'IDAE CIR'INAE MAL'IDAE OPHEL LI POLYCIRR POLYDORA PRIONOSP TELE COS NASS MEN AXIN SER PSEP LOR SOLA COL LEPT SAV AMP'ISCA PHOX'DAE PHORONID MASS:HAR | GLYCINDE PHOLO MI LAON CIR PS'SAB L NEB PUG LEPT SAV PHOX'DAE HAPLO EL LUMBRINE | EXO VERU GLYCINDE PHOLO MI PRIONOSP AOR COLU HEMIG OR PINN OCC | PHOLO MI PRIONOSP NEB PUG LEPT SAV LIMN LIG PHOX'DAE GLYC AME | EXO VERU PHOLO MI POLYDORA PRIONOSP MELI DEN PHOX'DAE LIMN LIG LAON CIR | DORV ANN GLYCINDE HES'IDAE PHY GRO SYLLIS CAP'IDAE POLYCIRR POLYDORA PRIONOSP LEPT SAV PHOX'DAE GLYC AME | NEMERTEA NER PROC POLYCIRR NEB PUG LEPT SAV AOR COLU |

Table 4.11 cont'd

| Station no. | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|--|-----|---|---|--|--|--|---|--|--|
| Bark deposit thickness (cm) | 0 | 0 | 0 | 0.8 | 0 | 0.9 | 2.7 | 0 | |
| Depth contour (m) | 4.8 | 7.3 | 10.7 | 10.7 | 10.7 | 7.3 | 7.3 | 7.3 | |
| Number of times ecologically significant | 4 | AMP'ISCA | MESO TAY | PHYL PRO | | PHYL PRO MESO TAY | MAL'IDAE | PRIONOSP | MESO TAY PHYL PRO |
| | 3 | LUCI TEN AXIN SER NEPHTYS1 LUMBRINE | MYS TUMI NOTO TEN | | FORAM 1 MACOMA | LUMBRINE | ARM BREV PHOX'DAE | NOTO TEN NEMERTEA DORV ANN LUCI TEN | PRIONOSP MYS TUMI |
| | 2 | MAL'IDAE MYS TUMI OWEN FUS PLAT BIC PROTOMED LEPT SAV | AXIO RUB ONU ELEG NEMERTEA NEPHTYS1 PHOLO MI EUL SANG MAL'IDAE CAP'IDAE | MESO TAY LUMBRINE AXIO RUB MYS TUMI NEPHTYS1 LAON CIR | LUMBRINE PRIONOSP MAL'DAE ACILA CAS LUCI TEN NOTO TEN NEPHTYS1 CAP'IDAE | ACILA CA ONU ELEG NOTO TEN MAL'IDAE NEPHTYS1 | PRIONOSP NEMERTEA GLYCINDE ANOP PUR | LUMBRINE PLAT BIC ARM BREV MAL'IDAE PHOX'DAE | ONU ELEG NEPHTYS1 LUMBRINE AXIO RUB NOTO TEN SIPUNCUL PINN OCC CAP'IDAE PHOX'DAE |
| | 1 | NEMERTEA GLYCINDE HES'IDAE NER PROC PHOLO MI HAPLO EL PRIONOSP PSEP LOR TELLINA AOR COLU AMP'ISCA PHOX'DAE SYN SHOE PINN OCC AMPHI UR GLYC AME ONU ELEG | NEMATODA LUMBRINE PLAT BIC CIR'INAE HAPLO EL OPHEL LI OWEN FUS PECT BRE POLYCIRR POLYDORA PRIONOSP PS'SAB L PSEP LOR SOLA COL TELLINA OSTRACOD DIASTYLI LEPT SAV PHORONID PINN OCC SIPUNCUL OED'IDAE PROTOMED | EUL SANG GLYCINDE PCLY TUT CAP'IDAE NOTO TEN PRIONOSP TELE COS AXIN SER OSTRACOD AMP'IDAE PHOX'DAE PINN OCC SPINUCUL | NEMERTEA HES'IDAE LUMBRINE POLY TUT SYLLIS CIR'INAE HAPLO EL LAON CIR MYRIO OC PECT BRE POLYCIRR POLYDORA PS'SAB L TELE COS MYS TUMI THYA FLE MELI DEN MELITA PHOX'DAE | NEMERTEA EUL SANG GLYCINDE PHOLO MI PLAT BIC CAP'IDAE CIR'INAE HAPLO EL LAON CIR MYRIO OC POLYDORA PRIONOSP PS'SAB L GAM'IDEA OED'IDAE PINN OCC SIPUNCUL PHOX'DAE MYS TUMI AXIO RUB MACOMA | DORV ANN HES'IDAE SYLLIS HAPLO EL TELE COS NEB PUG AOR COLU PHOX'DAE PINN OCC | PHOLO MI SYLLIS PECT BRE POLYCIRR PRIONOSP PS'SAB L TELE COS MYS TUMI LEPT SAV AOR COLU MELITA PINN OCC | NEMERTEA GLYCINDE PHOLO MI PLAT BIC SYLLIS CIR'INAE HAPLO EL MAL'IDAE OPHEL LI OPH'IDAE POLYDORA SCAL INF MACOMA PSEP LOR OSTRACOD LEPT SAV OED'IDAE PHOX'DAE |

the small crustaceans *Leptochelia savignyi* and *Nebalia pugettensis*. This same nebalian, a related species of *Dorvillea* and the polychaete *Capitella capitata* were found by Ellis (1970) to occur in a pulp mill generated fiber bed to the near exclusion of other benthos. These same species, furthermore, have been linked to sewage polluted areas by Reish (1959a and b).

The bark debris and sandbed fauna superficially appear to differ considerably in species structure. Bark deposition clearly eliminated the dominant components of the sand biota. With the bark came associated organisms such as the wood borer *Bankia setacea* and the wood gribble *Limnoria lignorum*. Yet, perusal of the raw data in Appendix IV showed that many of the fiber dominants were as well members of the sand population. The data therefore suggest that the basic structure of the bark debris fauna may largely depend upon the composition of the biota prior to deposition.

(iii) Cluster analysis

(iiia) Normal cluster analysis, Czekanowski coefficient of similarity

The dendrogram of the cluster analysis of all 80 hauls is presented in Appendix VA. Four major groups of hauls were delimited:

group I: all samples from the control sand bed stations,

group II: hauls from bark deposit stations ranging in mean fiber thickness from 0.8 to 10.3 cm;

group III: replicate hauls 2 to 5 of the thin fiber (0.8 cm) station 12 (this cluster will be discussed in section iiib);

group IV: hauls from the more thickly covered bark deposit stations 3, 4 and 6 (9.2 to >15.5 cm mean fiber thickness).

The hauls of Cluster I were generally ordered by depth. The high similarity levels at which many replicate hauls clustered, shows that the control stations are clearly defined and homogeneous. The preferential clustering of hauls located at the same depth but spatially separated by up to 2.3 km of sea bottom indicates that geographic isolation of this degree is no barrier to infaunal distribution. The most homogeneous hauls of Cluster I were those of stations 1, 2, 10 and 16. Subsequently joining to this group was the other member of the shallow contour controls, station 9. Finally, the hauls of the deep contour stations 11 and 13 joined the cluster, indicating that they were the most distinct from the other control stations. No subgroup was formed which could be related to difference in sampling time. Hauls of the winter sampling of station 10 (denoted station 16) showed close affinities in faunistic composition to the spring sampled stations 2 and 10 of the 7.3 m contour.

Group II contained all hauls of the thinly covered bark stations (0.8-7.0 cm mean fiber thickness) and one half of the total replicates

sampled in thicker portions of the fiber mat (9.2-10.3 cm in mean thickness). The grouping was internally as homogeneous as Cluster I and consisted of three major subgroups which could be separated on the basis of sampling depth and bark deposit thickness. The first and most distinctive subgroup consisted of all stations located in the fringes of the bark fiber blanket (0.8-2.7 cm mean thickness). A second subgroup was composed of the more thickly covered stations (5.6-9.2 cm mean thickness) which all occurred on the 4.8 m depth contour. The third subgroup, which also was from this depth contour, consisted primarily of hauls from a heavily covered portion of the fiber mat (10.3 cm mean thickness). The three subgroups clustered in order of bark deposit thickness.

Replicate hauls of the winter and spring sampling times closely intermixed. Thus infaunal composition is not markedly temporally variable in either the sand bed or the bark fiber blanket.

The final cluster group, composed of the shallow water, thick deposit stations, consisted of two subgroups: one highly associated cluster of three replicates of the most heavily covered fiber station 4, and another, less homogeneous combination of replicates from other thick deposit stations 3, 6 and 4. This cluster group, perhaps because it is characterized by being impoverished, remained clearly distinct from the rest of the bark deposit stations and finally joined at only 3.9% similarity to the supergroup of bark fiber and control stations combined.

A duplicate run of the cluster analysis after the data was transformed by the factor $\ln(x+1)$ produced the dendrogram shown in Appendix VB. The differences between fiber and sand stations were

displayed even more clearly than when the data was left untransformed. The reduced weighting of abundant species, which resulted from data transformation, served to better define the affinities of the Cluster IV replicates. The hauls joined with the other fiber stations, suggesting that this group was not sufficiently different as to be differentiated as an ecologically separable community group. Log transformation did not, however, sufficiently reduce the overriding effect of Foraminifera sp. 1 on station 12, so that this group remained clearly isolated from other hauls taken at comparable locations in the fiber blanket.

Station subgroups formed in the transformed analysis were not as clearly relatable to environmental factors as was the case in the untransformed analysis. The same depth trends at control stations were shown, but no ordination of fiber stations was made to suggest that they reflected a gradient in bark deposit thickness.

Transformation of the data thus served to reduce the weighting of dense species and hence isolate gross differences in a more clearly defined manner. On the other hand, transformation masked gradient trends in the data and failed to suggest a biotic response. Both cluster analyses did objectively substantiate what earlier was subjectively apparent: that this study is dealing with a single benthic community which differs more quantitatively than qualitatively with such factors as fiber thickness, sampling depth and time.

(iiib) Comparison of the Czekanowski and Jaccard coefficients of similarity

The use of the Jaccard coefficient of similarity results in the loss of some information because it is a binary unit, based on presence or absence of a species from the data matrix. Thus the relative importance of that species (density, biomass, cover, basal area) is unknown, and each member is equally weighted. The purpose of classification is to detect discontinuities. Where differences are quantitative rather than qualitative, a non-standardizing type of coefficient such as Czekanowski's becomes important. This coefficient reveals gradients which is in effect the purpose of ordination. It has been used by Bray and Curtis (1957) for ordination analysis and since then for classification (Field and McFarlane, 1968).

The action of the Jaccard coefficient on the Mill Bay data was to cluster the hauls at a higher similarity level than for Czekanowski's, but still differentiate a number of large clusters and subgroups. The control stations were similarly distinguished as one large cluster and showed related subdivisions by depth as was revealed by the Czekanowski coefficient.

The bark fiber stations were not as clearly ordinated by deposit thickness as was shown by the untransformed Czekanowski coefficient. Nor were the subgroups as clearly distinguished by significantly differing environmental factors. The joining of the subgroups into larger clusters occurred in a cascade effect: first the thin fiber stations added to the control block, then the intermediate stations and finally the most thickly covered stations. This process of clustering thus suggested that a continuum in Whittaker's (1973) sense

was being dealt with, whereby the primary gradient of bank deposit thickness increasingly altered the characteristics of the sand bed fauna until at the thickest levels, little was left of the original community.

The differential action of the Jaccard and Czekanowski coefficients can be seen in two instances in Appendix VC. The first case is of haul 14-3 which, unlike the Jaccard analysis, showed very little affinity by the Czekanowski coefficient to other comparable hauls. This haul was sampled at a somewhat shallower depth than the other replicates of station 14 (6.7 m as compared to the overall mean of 7.4 m below chart datum). Consultation of the raw data in Appendix IV suggested that although overall faunal abundance and species number were not markedly different, some dominant members of the station, such as the polychaetes *Prionospio* sp., Maldanidae, *Syllis* sp. and *Polydora* sp., and the crustaceans *Nebalia pugettensis*, *Leptosohelia savignyi* and Phoxocephalidae were markedly reduced in abundance. On the other hand, the winter dominant *Armandia brevis* was 5 times more dense. The marked differences in this haul were recognized by the Czekanowski and not the Jaccard coefficient because they were quantitative, not qualitative.

Another instance of seemingly aberrant clustering was that shown in the Czekanowski analysis with the most thinly covered fiber station 12. Because of the overriding abundance of *Foraminifera* sp. 1 in hauls 2 to 5 of this station, these replicates combined very poorly with other groups. Without this species, however, the faunal composition of this station was not dissimilar. The isolation of the station 12 hauls resulted from the type of similarity coefficient employed. Applying Jaccard's coefficient to the analysis, and thereby eliminating the import of *Foraminifera* sp. 1, all hauls of station 12 combined

closely with comparable stations located in the fringes of the bark fiber blanket, and in fact two replicates showed even a closer affinity with the controls.

That the four Foraminifera-containing hauls of station 12 should be considered as an ecologically distinct community, because of the preponderance of one organism, is questionable, especially so when the very low proportion of population biomass accounted for by this species, along with its evident minimal impact on infaunal composition, is considered. This example strengthens the case presented by Clifford and Stephenson (1975): that it does not always make ecological sense to take raw data at its face value. It also illustrates the point that conclusions drawn from numerical methods should be substantiated, by analysing the data in more than one fashion.

In summary, the Jaccard and Czekanowski coefficients combined in a complementary manner to reveal the ecological significance of anomalies and to suggest qualitative differences and quantitative gradients. The Jaccard coefficient substantiated what was already revealed by the Czekanowski coefficient: that there exists real differences in species structure which can be related to gross changes in sampling depth and substrate type. The Czekanowski coefficient sensed the real differences in the fauna of station 12 and 14 but the Jaccard coefficient suggested that these might not be ecologically significant. Finally, the Czekanowski coefficient revealed a faunistic trend in the data which was not so evident with Jaccard's. Thus both coefficients acted to strengthen differentiations and suggest trends which neither alone might reveal.

(iiic) Inverse cluster analysis

The untransformed inverse analysis of species using the Czekanowski coefficient of similarity is diagrammed in Appendix VD. Rare species occurring in less than 5% of the hauls were removed, so that 134 of the total 168 species were considered. Most species showed a poor association and none clustered above a 75% similarity level. Even at the 10% level, 13 species groups still remained.

The species were ordered in the dendrogram such that those found ecologically significant by two or more criteria (density, wet weight biomass, frequency or Pamatmat's index) occurred in groups at the two ends and in the middle of the Figure. The outer groups were composed of species found ecologically significant in the sandy control and thick bark stations, respectively. The group in the middle was composed of a mixture of species, many of which were ecologically significant both in the sand bed and in the fringe of the fiber blanket.

The control group of ecologically significant species was a compact association of the bivalve *Myrella tumida*, the polychaetes *Mesochaetopterus taylori*, *Notomastus tenuis*, *Nephtys* sp. 1, and the crab *Pinnixa occidentalis*. Joining at a lower similarity because of its affinity to deeper water, was the polychaete *Phyllochaetopterus prolifica* and a hard egg mass, unidentified.

The cluster of species at the opposite end of the diagram became ecologically significant for the most part in the bark deposit stations. Composing this group were the polychaetes *Capitella capitata*, *Platynereis bicanaliculata*, Hesionidae, *Dorvillea annulata*, *Prionospio* sp., *Lumbrinereis* sp. and *Armandia brevis*, the shipworm *Bankia setacea*, the wood burrowing gribble *Limnoria lignorum*, and the small crustaceans

Leptochelia savignyi, *Nebalia pugettensis* and *Aorides columbiae*.

Joining the two clusters of ecologically significant species were the majority of taxa collected, many of which were not sufficiently abundant or frequent to form clearly defined groups.

The simple methods formulated by Ellis (1969) to determine ecologically significant species of the sand and fiber bed distinguished the same species as were delimited by the comparatively more sophisticated and objective method of cluster analysis. The cluster analysis thus tends to support the validity of his technique.

(iv) Zürich-Montpellier analysis

The results of the Zürich-Montpellier analysis using the 66-20 diagnostic species formula appear in Appendix VI. Five diagnostic species groups were extracted from the presence-absence data. Although this accounts for only 22 of the 134 species analysed, many of the ungrouped species were either too widespread or too rare to be useful in forming haul groups.

The first species group consisted of the polychaetes *Phyllochaetopterus prolifica* and *Myriochele oculata*, which commonly occurred at the deeper 7.3 and 10.7 m stations (7, 11, 13 and 16). This haul-species block persisted in the 66-10 and 66-33 versions of the program.

The second group of species delineated by Zürich-Montpellier analysis were widespread in the sand bed and as well penetrated into the fringes of the bark debris mat (0-2.7 cm mean bark thickness). Six species composed this group, the polychaetes *Nephtys* sp. 1, *Mesochaetopterus taylori* and *Axiiothella rubrocincta*, the bivalve *Axinopsida serricata*, a species of Phoronid, and a group of Sipunculids. All taxa were ecologically significant both in numbers and biomass in at least one of the member stations of this group.

The third species group appeared to be diagnostic of the shallower control stations, as all replicate hauls of stations 1, 2, 9, 10 and 16 were included, as well as two hauls each from stations 11 and 13. All hauls from comparable depths in the bark fiber blanket were excluded. Thus substrate type is apparently a stronger factor than depth in delimiting species groups. Species composing this group were ecologically significant at one of the member stations by abundance, biomass or Pamatmat's respiration index. They were, the polychaetes

Onuphis elegans, *Owenia fusiformis* and *Ophelia limacina*, the bivalve *Psephidia lordi*, and a group of Ostracods, Gammarid amphipods and Nematodes.

The fourth grouping, consisting of the polychaetes *Notomastus tenuis* and *Syllis* sp., along with an Oedicerotid group of amphipods, covered the same range of sampling time, depth and bark thickness as the first and second groups combined. In the less stringent 55-20 version, this and the second group in fact joined into one.

The final species group consisted of two crustaceans, the shore crab *Hemigrapsus oregonensis* and the wood-burrowing gribble *Limnoria lignorum*. The distribution of these species encompassed all bark deposit stations and one haul of control station 1. This latter haul contained a few pieces of drifted bark in which the gribble was found burrowed. The grouping therefore essentially represented the bark deposit stations sampled at all depths and times. The same species appeared as diagnostic of these station groups in the 50-20 and 66-33 constancy versions of the program. Two other species which proliferated in the bark deposit, *Dorvillea annulata* and *Nebalia pugettensis*, were also distinguished in the 66-33 version as being associated with fiber stations.

In summary, the Zürich-Montpellier analysis distinguished basically four species associations, two of which were restricted to control sand bed stations and which were distinguishable by depth, a third association which penetrated into the fringes of the bark debris, and a final association which predominated in the fiber blanket. Many organisms which were observed in the raw data analysis to proliferate in the

fiber bed were not delimited by the Zürich-Montpellier analysis because they occurred in small numbers outside. The results therefore suggest that a single community of fauna is being studied, which fluctuates in quantity and structure with environmental gradients, but at the extremes does not qualitatively differ sufficiently to be distinguished as a separate community type.

(v) Ordination

(va) Reciprocal averaging ordination of hauls

The ordination of all 80 hauls using the 134 commoner species is presented in Figures 4.6 and 4.7. Seven vectors were required to extract 50% of the total variance, more than half of this amount being accounted for by the first three vectors. A plot of all stations on axis 1 and 2 (Figure 4.6) showed a clear separation of the sand and bark deposit stations. Station positions on axes 2 and 3 (Figure 4.7) suggested that these vectors may reflect a depth gradient. Kendall's rank correlation analysis substantiated this hypothesis, as is illustrated in Figure 4.8. The station positions on axis 1 were highly correlated with bark deposit thickness and on axes 1, 2 and 3 with sampling depth. Thus nearly 20% of the total infaunal variance was directly or indirectly correlated with a gradient in bark debris thickness and a further 16% of the total variance could be accounted by at least two gradients occurring with sampling depth. Temporal variability in faunal composition must account for some of this variation but no clear isolation of temporal components appeared on any of the three major axes.

The dual correlation of axis 1 with bark deposit thickness and sampling depth was not unexpected, because the two gradients were related: the more thickly covered bark stations were located at the shallower depth contour and the thinly covered stations were found at increasing depth. However, at control stations where a gradient in bark cover did not exist, no significant correlation was found between axis 1 positions and sampling depth. This evidence therefore suggests that axis 1 signifies a gradient in bark deposit thickness.

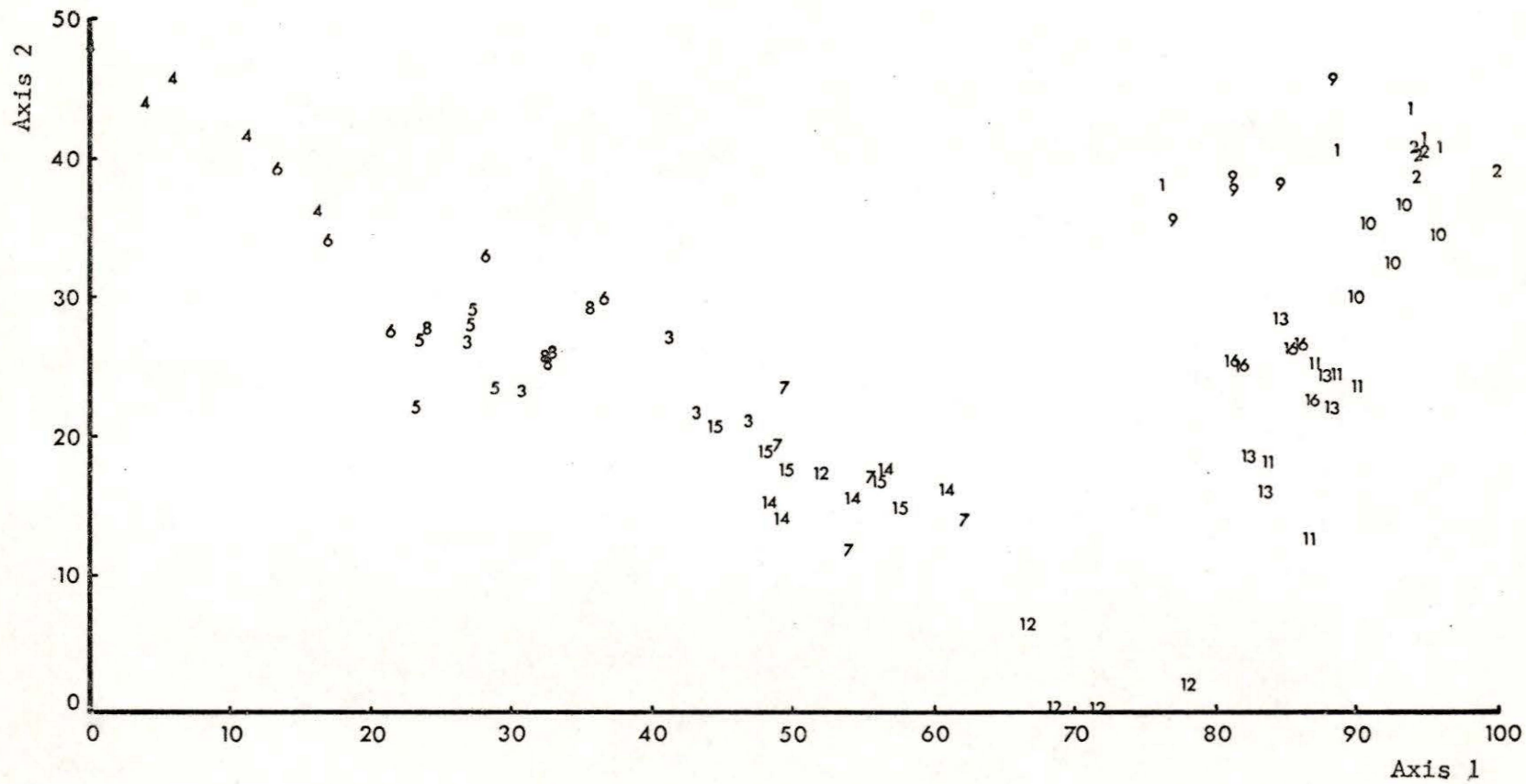


Figure 4.6 Ordination of station replicates on axes 1 and 2

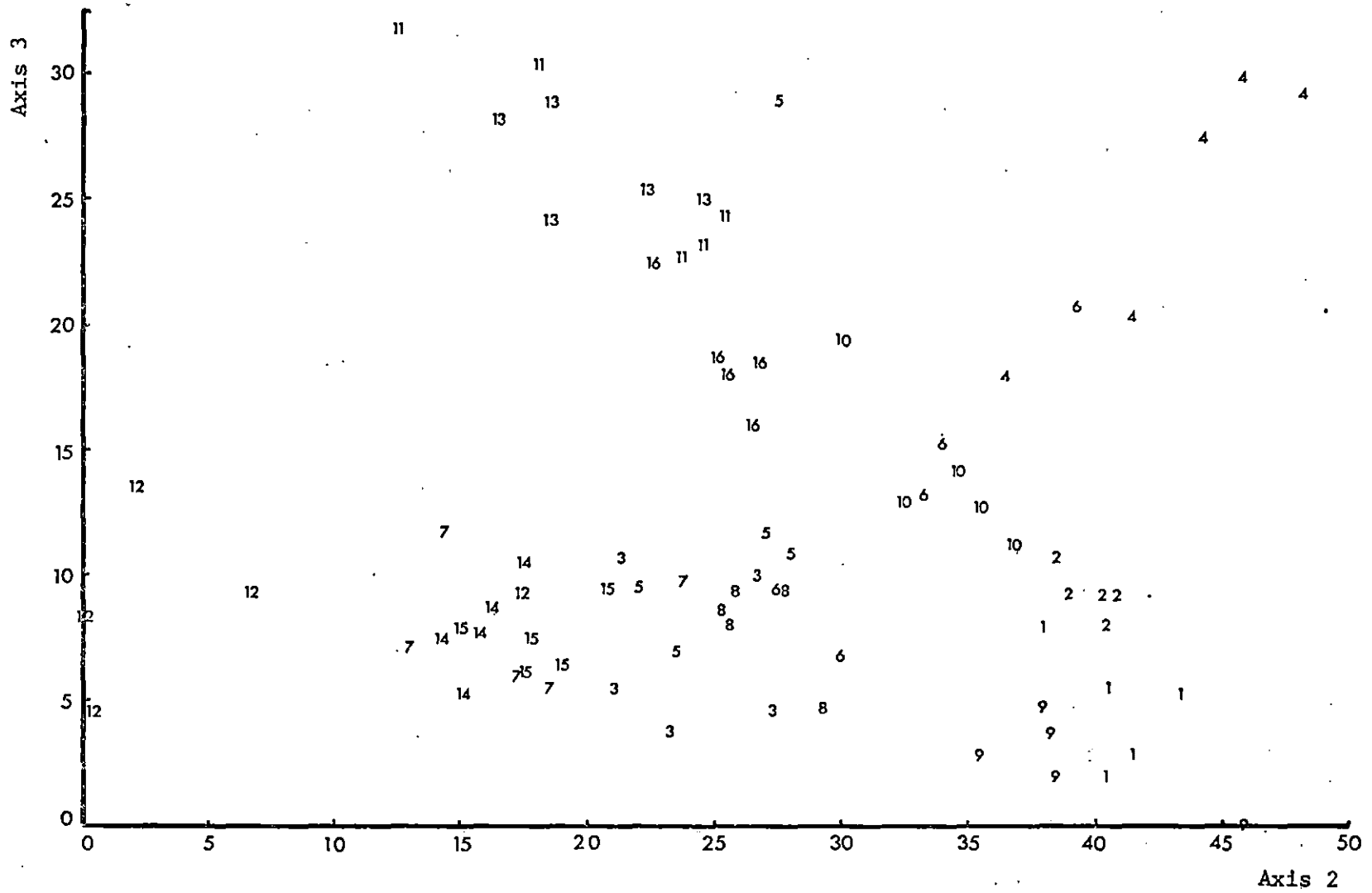


Figure 4.7 Ordination of station replicates on axes 2 and 3

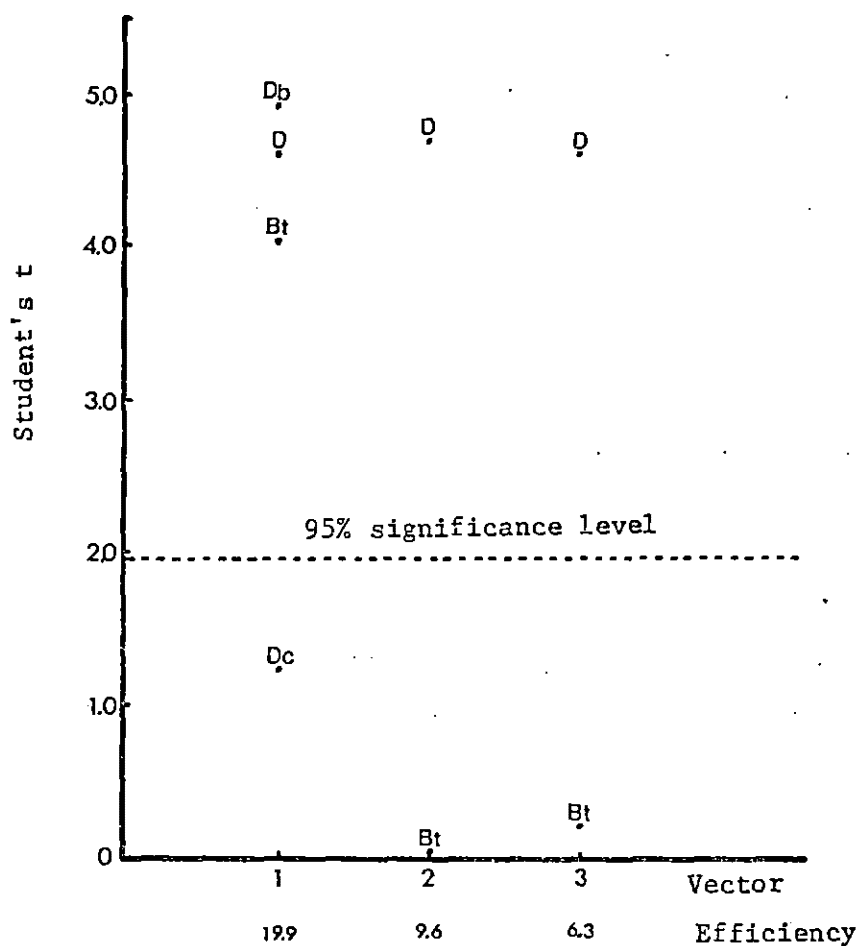


Figure 4.8 The significance of rank correlations between vectors 1,2,3 and bark deposit thickness (BT) and sampling depth (D). The "efficiency" of each vector is the percentage of total variation accounted for.

D_c signifies sampling depth, control stations only
 D_b signifies sampling depth, bark stations only

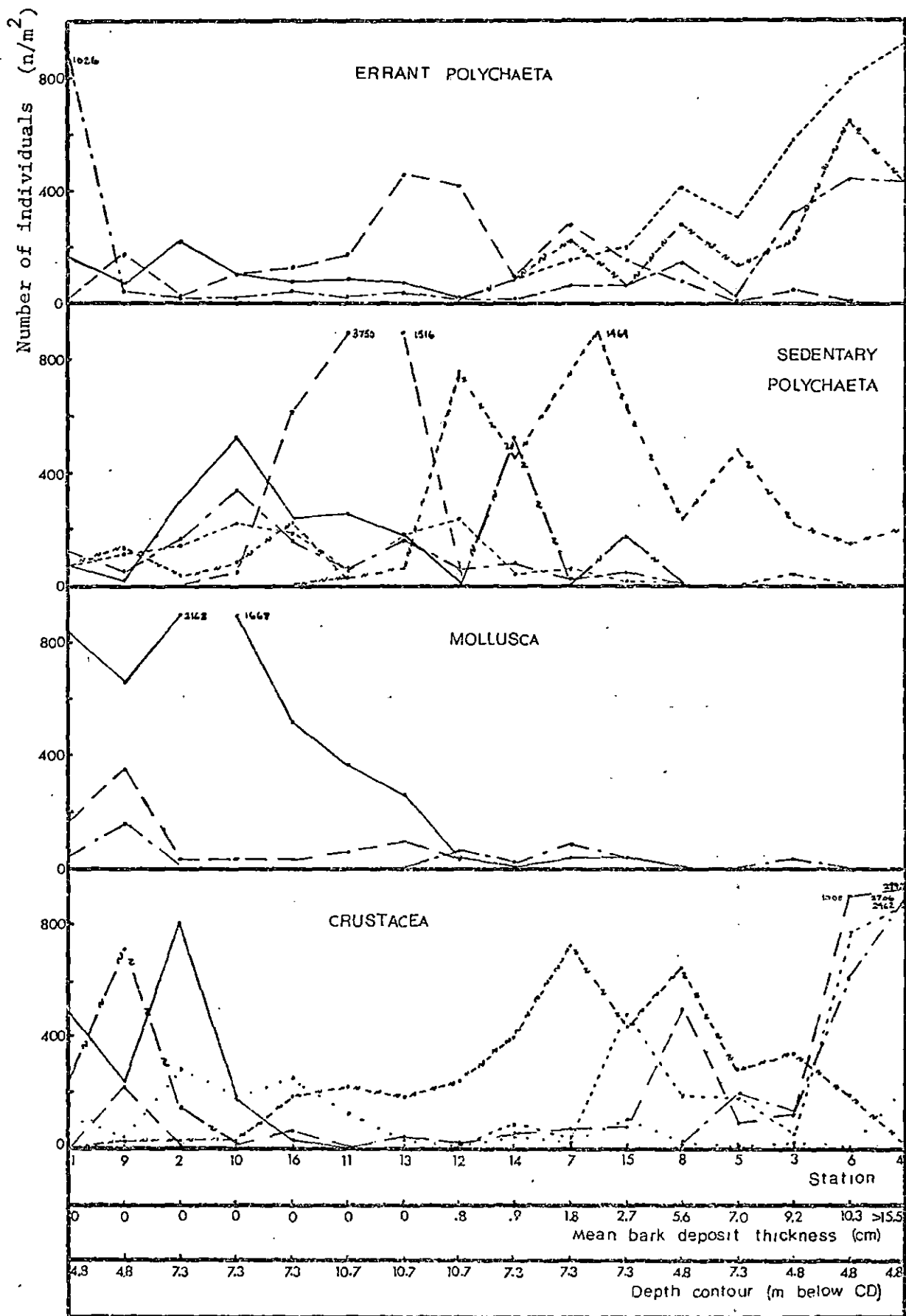
(vb) Direct ordination of species

The distribution of many of the infaunal species of this study has earlier been described as gradient in nature, peaking in density at some stations, but often persisting at low levels throughout the study area. From the subjective analysis of ecologically significant species groups and the more objective methods of classification, it has been suggested that perhaps the infauna are not separable into clearly defined communities, but rather exist as a mosaic. Many environmental and biotic factors act to define this mosaic. Indirect ordination suggests that a primary factor is substrate type, while depth and temporal differences play a secondary and tertiary role.

When the sampling stations were arranged into a gradient of thickness of bark cover and the relative abundance of the dominant fauna was plotted in Figure 4.9, such a mosaic resulted. The response of the species was a mixture of continuity and discontinuity, with peaking in abundance in a certain substrate range. The modal point of each species distribution represents the centre of maximum success in competition with other species populations (Whittaker, 1973).

A common discontinuity occurred at the transition from the sand bed to the bark fiber mat. This was apparent especially in the mollusca. However, enough organisms persisted throughout the gradient to suggest that only one community type was being observed. This phenomenon is not uncommon in occurrence. It has been well documented in vegetation studies (Whittaker, 1967) and in some marine benthos analyses (Cassie and Michael, 1968; Hughes and Thomas, 1971b). Gradients in faunistic composition with organic loading have also been observed (see Reish (1959b) and Leppäkoski 1975) for reviews).

Figure 4.10 Species-abundance relations in stations 1 to 8. Species are ranked from commonest to rarest, and the rank of each species is plotted against the importance of the species, expressed as the logarithm of abundance.



In generating principles from faunistic trends observed with a pollution gradient, Leppäkoski (1975) concluded that faunistic composition of the altered community was largely determined by the original community characteristics. It appears that a similar principle holds for the bark deposit fauna of Mill Bay.

(vi) Diversity and equitability

Tables 4.12 and 4.13 respectively present the Shannon-Weaver diversity and evenness of the infaunal populations at each station. Mean values at sand stations were comparable to measures determined by similar sampling technique for the benthos of Cape Cod Bay (Young and Rhoades, 1971), of Puget Sound (Lie and Evans, 1973) and the Northumberland Coast (Buchanan and Warwick, 1974). The Mill Bay stations are therefore no less diverse than is expected for shallow temperate sea benthos and generally show a high degree of evenness in species composition.

Mean Shannon-Weaver diversity and evenness values ranged from a high at control station 16 of respectively 4.7 and .78, to a low of 2.4 and .41 at bark fiber station 12. Anomalies in hauls 1-4, 14-3 and 12-2 to 5, which were discerned in raw data and cluster analysis, were reflected in a depression in diversity and equitability values. A consistently low diversity and evenness of the benthos at station 11 was not, however, recognized by other analyses. It may be due to the presence at this station of a significant ($p=.05$) and disproportionately large number of the polychaete *Phyllochaetopterus prolifica*, which increased the predictability of the species components and thus decreased diversity and evenness.

There was a trend towards a decreased diversity and evenness in the fiber stations, which culminated at the most thickly covered station 4. A trend with depth was less evident, but both indices showed that diversity increased in the winter.

The very low diversity values of 1 to 1.5 which characterize the benthos in polluted sediments (Rosenberg, 1973; Leppäkoski, 1975) were

Table 4.12 Shannon-Weaver diversity of each infaunal haul. Stations 1-13 were sampled in April-May, 1975; stations 14-16 were sampled in January, 1976. Station 16 is a duplicate sampling of station 10. Larger values denote a greater diversity.

Shannon-Weaver diversity (bits per individual)

| Station no. | Depth contour (meters below chart datum) | Mean bark deposit thickness (cm) | Replicate no. | | | | | Mean |
|-------------|--|----------------------------------|---------------|-----|-----|-----|-----|------|
| | | | 1 | 2 | 3 | 4 | 5 | |
| 1 | 4.8 | 0 | 4.3 | 4.1 | 4.2 | 3.4 | 4.7 | 4.1 |
| 2 | 7.3 | 0 | 3.7 | 3.7 | 3.7 | 3.7 | 4.0 | 3.8 |
| 3 | 4.8 | 9.2 | 3.7 | 2.9 | 4.1 | 3.9 | 4.3 | 3.8 |
| 4 | 4.8 | >15.5 | 2.8 | 3.1 | 3.0 | 3.0 | 2.5 | 2.9 |
| 5 | 7.3 | 7.0 | 3.8 | 3.3 | 4.2 | 3.4 | 3.5 | 3.6 |
| 6 | 4.8 | 10.3 | 3.1 | 3.2 | 3.3 | 3.7 | 3.7 | 3.4 |
| 7 | 7.3 | 1.8 | 3.6 | 3.8 | 3.7 | 3.8 | 4.0 | 3.8 |
| 8 | 4.8 | 5.6 | 3.6 | 3.9 | 3.3 | 3.7 | 3.7 | 3.6 |
| 9 | 4.8 | 0 | 7.8 | 4.7 | 4.0 | 3.6 | 4.7 | 4.4 |
| 10 | 7.3 | 0 | 4.0 | 3.7 | 4.6 | 4.1 | 4.4 | 4.2 |
| 11 | 10.7 | 0 | 3.3 | 3.6 | 3.1 | 2.5 | 1.9 | 2.9 |
| 12 | 10.7 | 0.8 | 4.5 | 1.8 | 1.8 | 2.0 | 1.9 | 2.4 |
| 13 | 10.7 | 0 | 4.1 | 4.9 | 3.2 | 4.5 | 3.6 | 4.1 |
| 14 | 7.3 | 0.9 | 4.4 | 4.6 | 2.3 | 4.3 | 4.3 | 4.0 |
| 15 | 7.3 | 2.7 | 4.0 | 4.3 | 4.0 | 4.2 | 3.5 | 4.0 |
| 16 | 7.3 | 0 | 4.3 | 4.8 | 5.1 | 5.2 | 4.1 | 4.7 |

Table 4.13 Species equitability (Pielou, 1966) of each infaunal haul. Stations 1-13 were sampled in April-May 1975; stations 14-16 were sampled in January, 1976. Station 16 is a duplicate sampling of station 10. Larger values denote a greater equitability or evenness of species abundance.

Species equitability (bits per individual)

| Station no. | Depth contour (meters below chart datum) | Mean bark deposit thickness (cm) | Replicate no. | | | | | Mean |
|-------------|--|----------------------------------|---------------|-----|-----|-----|-----|------|
| | | | 1 | 2 | 3 | 4 | 5 | |
| 1 | 4.8 | 0 | .74 | .73 | .78 | .58 | .82 | .73 |
| 2 | 7.3 | 0 | .64 | .64 | .68 | .64 | .68 | .66 |
| 3 | 4.8 | 9.2 | .75 | .63 | .77 | .76 | .81 | .74 |
| 4 | 4.8 | >15.5 | .58 | .62 | .63 | .66 | .52 | .60 |
| 5 | 7.3 | 7.0 | .73 | .71 | .79 | .74 | .70 | .74 |
| 6 | 4.8 | 10.3 | .59 | .66 | .69 | .67 | .73 | .67 |
| 7 | 7.3 | 1.8 | .66 | .71 | .65 | .68 | .71 | .68 |
| 8 | 4.8 | 5.6 | .70 | .71 | .75 | .71 | .75 | .73 |
| 9 | 4.8 | 0 | .88 | .83 | .70 | .66 | .80 | .77 |
| 10 | 7.3 | 0 | .68 | .64 | .78 | .71 | .76 | .71 |
| 11 | 10.7 | 0 | .57 | .61 | .52 | .47 | .33 | .50 |
| 12 | 10.7 | 0.8 | .79 | .31 | .31 | .35 | .32 | .41 |
| 13 | 10.7 | 0 | .71 | .83 | .57 | .76 | .64 | .70 |
| 14 | 7.3 | 0.9 | .80 | .83 | .47 | .79 | .75 | .73 |
| 15 | 7.3 | 2.7 | .71 | .85 | .78 | .76 | .64 | .75 |
| 16 | 7.3 | 0 | .75 | .80 | .83 | .85 | .69 | .78 |

not found at the Mill Bay stations, even in the thickest portions of the bark debris (stations 4 and 6). The fiber station values more closely resembled those found at other marine log handling grounds ($H' = 1.8$ to 4.1) in Alaska (Pease, 1973). This suggests that the impact of bark debris on benthic infauna is not as great as that resulting from other kinds of effluents.

(vii) Species-abundance relations

Figures 4.10 and 4.11 display for each sampling station a plot of the component species, ranked commonest to rarest, against the logarithm of importance, as determined by the number of individuals per species. If the species-abundance relationship fits a geometric type distribution, the plot forms a straight line. A convex and sinusoidal trend in the curve indicates an approach to a lognormal-type distribution (Whittaker, 1965). Comparison of the plots of each station indicated that although there was little tendency towards a sinusoidal appearance in the curves, there was an increase in the convexity, especially in stations covered by little or no bark.

In comparing dominance diversity curves of widely different floristic communities, Whittaker (1965) found that a geometric plot described communities which have rigorous environments and only a few species. Less steep geometric slopes appeared for communities with less severe environments and moderate species-diversity. Applying these observations to the station plots, it may be suspected that the bark deposit infauna exist under more rigorous environmental conditions than the sand fauna. In light of Sanders' (1968) stability-time hypothesis, it follows that bark deposition may alter the benthos to a more physically controlled type of community, characterized by lowered diversity and complexity.

Figure 4.10 Species-abundance relations in stations 1 to 8. Species are ranked from commonest to rarest, and the rank of each species is plotted against the importance of the species, expressed as the logarithm of abundance.

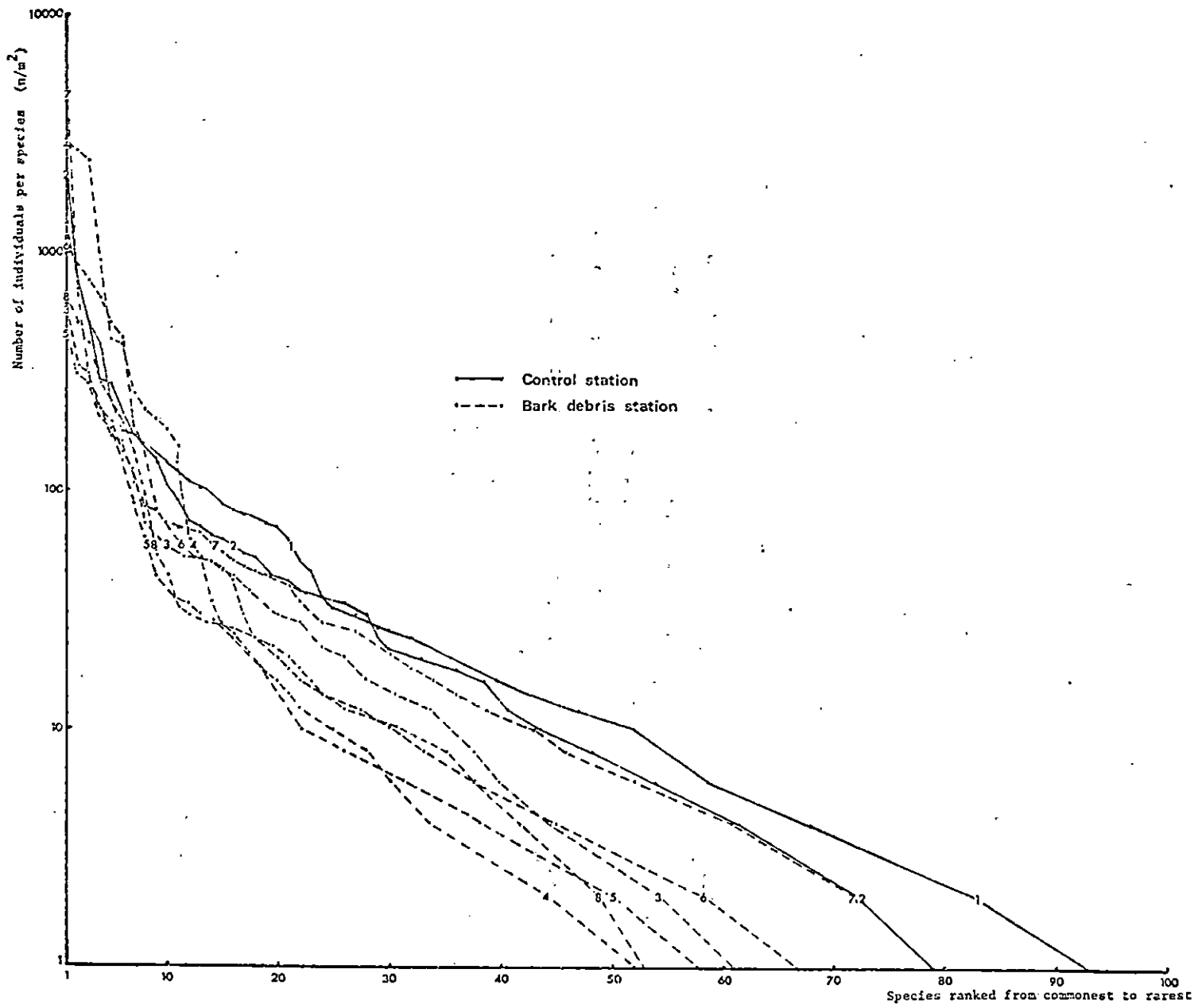
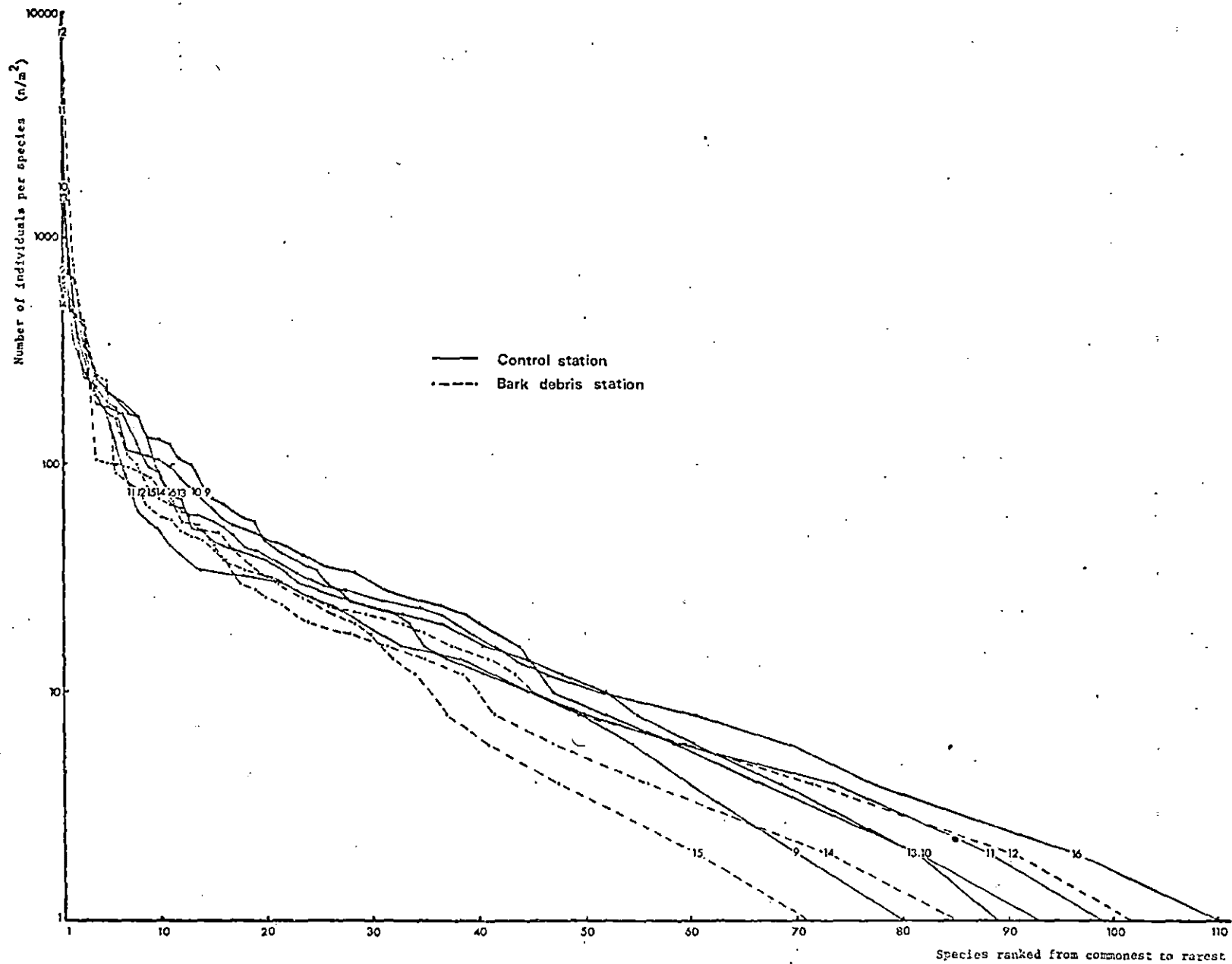


Figure 4.11 Species-abundance relation in
stations 9 to 16. All species are
included.



(viii) Ecological associations

(viiiia) Species distribution relationships

Of the species that were collected in the fiber stations, many were found to be living within crevices or burrows in the deposited bark and wood chips. Table 4.14 lists these species and shows that 39 taxa were found associated. Many of these were ecologically significant in the more thickly covered bark debris stations. Examples are, *Dorvillea annulata*, two species of Hesionidae, *Nebalia pugettensis*, *Leptochelia savignyi*, Nemertea, *Platynereis bicanaliculata*, and *Prionospio* sp. The wood eating organisms *Bankia setacea* and *Limmoria lignorum* reached their greatest numbers proximal to the active dump and booming ground (stations 4 and 6), where deposition of freshly dislodged bark could be expected to be most active. The frequent appearance of non wood-burrowing species might have been due to the availability of many crevices in the bark chips for protection.

(viii) Feeding biology relationships

In Appendix II is displayed the primary feeding habit of each benthic species, as documented in the literature. The proportion of dry weight accounted for by the four feeding types is presented in Table 4.15.

Figure 4.12 plots the relationship between feeding type and bark deposit thickness. It is clear that such a relationship does exist. This is particularly evident in regard to suspension feeders and herbivores. At control, non-fiber stations, suspension feeders predominated but clearly decreased in the bark deposit. A Kruskal-Wallis test showed that this decrease was highly significant ($p=.01$) and remained so with the addition of unaccounted species biomass.

A clear increase in the proportion of herbivores with bark deposit thickness was also evident and addition of unallocated biomass to this group accentuated the trend. The difference was highly significant ($p=0.01$) by a Kruskal-Wallis test.

Some increase in deposit feeder biomass was evident at the less thickly covered fiber stations but this trend was offset by the proportionate increase in herbivores at the thick fiber stations. The proportion of biomass represented by carnivores and/or scavengers showed no trend and fluctuated around a mean of 30%.

Some depth and temporal differences in the feeding composition of control fauna were evident. Suspension feeder biomass was somewhat reduced at the shallowest control stations, but remained greater than at the lightest fiber stations. A not unexpected increase in herbivores at shallower depths was also evident. A re-sampling of station 10 in January, 1976 (denoted station 16) indicated a 10 to 20% decrease in the

Table 4.15 Proportion of dry weight biomass allocated
to the primary feeding groups of each haul

COMMUNITY TROPHIC STRUCTURE ANALYSIS

DISTRIBUTION OF DRY WEIGHT
(PERCENT OF TOTAL)

| STATION | HAUL | SUSPENSION FILTERS | DEPOSIT FEEDERS | HERBIVORES | CARNIVORES AND SCAVENGERS | UNKNOWN |
|---------|------|-----------------------|--------------------|------------|------------------------------|---------|
| 1 | 1 | 40.52 | 19.38 | 7.05 | 30.70 | 2.35 |
| | 2 | 24.24 | 28.27 | 0.0 | 40.62 | 0.83 |
| | 3 | 27.30 | 35.57 | 0.0 | 30.32 | 0.31 |
| | 4 | 4.29 | 7.17 | 79.45 | 6.91 | 2.41 |
| | 5 | 51.98 | 18.82 | 0.0 | 23.77 | 0.41 |
| 2 | 1 | 74.83 | 12.95 | 0.44 | 7.00 | 0.14 |
| | 2 | 58.13 | 16.71 | 0.0 | 24.07 | 0.43 |
| | 3 | 51.27 | 15.08 | 0.0 | 23.52 | 0.11 |
| | 4 | 43.23 | 13.66 | 0.0 | 40.34 | 0.27 |
| | 5 | 50.93 | 13.01 | 0.0 | 27.12 | 2.93 |
| 3 | 1 | 0.0 | 37.07 | 60.34 | 2.57 | 0.0 |
| | 2 | 0.11 | 22.25 | 10.31 | 21.01 | 39.72 |
| | 3 | 0.93 | 15.69 | 19.50 | 63.38 | 0.0 |
| | 4 | 2.91 | 25.42 | 53.00 | 10.34 | 1.53 |
| | 5 | 0.16 | 36.33 | 15.24 | 17.73 | 36.55 |
| 4 | 1 | 0.0 | 16.10 | 45.40 | 30.04 | 0.46 |
| | 2 | 0.0 | 33.33 | 51.31 | 15.33 | 2.02 |
| | 3 | 0.0 | 22.78 | 65.25 | 10.31 | 1.16 |
| | 4 | 0.0 | 50.49 | 42.65 | 2.34 | 3.92 |
| | 5 | 0.0 | 6.07 | 82.28 | 10.66 | 0.99 |
| 5 | 1 | 0.0 | 27.70 | 89.68 | 6.40 | 1.02 |
| | 2 | 0.0 | 34.96 | 22.76 | 34.15 | 3.13 |
| | 3 | 0.0 | 15.69 | 0.0 | 73.15 | 1.96 |
| | 4 | 0.0 | 38.89 | 12.98 | 42.30 | 1.83 |
| | 5 | 0.0 | 19.18 | 1.37 | 77.45 | 0.0 |
| 6 | 1 | 0.0 | 12.11 | 77.97 | 9.33 | 0.0 |
| | 2 | 0.0 | 25.00 | 20.11 | 54.32 | 0.0 |
| | 3 | 0.0 | 13.81 | 66.00 | 19.35 | 7.14 |
| | 4 | 0.30 | 8.33 | 34.50 | 49.32 | 7.36 |
| | 5 | 0.0 | 10.67 | 55.06 | 31.46 | 2.81 |
| 7 | 1 | 0.0 | 62.77 | 14.67 | 15.72 | 3.62 |
| | 2 | 0.12 | 45.30 | 10.12 | 43.72 | 3.73 |
| | 3 | 0.45 | 68.69 | 6.29 | 21.10 | 3.48 |
| | 4 | 0.13 | 52.64 | 10.28 | 30.70 | 0.0 |
| | 5 | 0.45 | 27.41 | 10.54 | 61.30 | 0.0 |
| 8 | 1 | 0.0 | 22.27 | 11.09 | 40.07 | 25.88 |
| | 2 | 0.0 | 13.75 | 8.59 | 52.37 | 24.98 |
| | 3 | 0.0 | 10.27 | 70.30 | 3.34 | 13.47 |
| | 4 | 0.18 | 11.63 | 28.60 | 7.24 | 51.95 |
| | 5 | 1.91 | 21.58 | 19.13 | 57.38 | 0.0 |
| 9 | 1 | 9.77 | 29.56 | 3.60 | 57.07 | 0.0 |
| | 2 | 35.54 | 36.92 | 4.83 | 14.32 | 3.33 |
| | 3 | 10.22 | 62.65 | 3.44 | 17.20 | 0.44 |
| | 4 | 9.02 | 52.93 | 6.93 | 30.73 | 0.47 |
| | 5 | 1.37 | 24.93 | 10.99 | 52.74 | 0.46 |
| 10 | 1 | 80.65 | 8.41 | 0.0 | 4.93 | 0.96 |
| | 2 | 71.13 | 12.89 | 0.0 | 15.85 | 0.43 |
| | 3 | 67.35 | 15.05 | 0.09 | 12.40 | 2.05 |
| | 4 | 79.90 | 13.18 | 0.65 | 3.30 | 2.37 |
| | 5 | 56.38 | 4.56 | 0.46 | 33.23 | 0.35 |
| 11 | 1 | 57.42 | 24.22 | 4.83 | 13.25 | 0.23 |
| | 2 | 66.74 | 4.64 | 1.77 | 20.76 | 0.03 |
| | 3 | 64.15 | 14.74 | 0.63 | 17.23 | 3.05 |
| | 4 | 51.77 | 23.36 | 3.54 | 14.14 | 7.20 |
| | 5 | 54.39 | 21.84 | 6.15 | 10.36 | 1.26 |
| 12 | 1 | 1.30 | 26.09 | 18.26 | 31.74 | 22.61 |
| | 2 | 6.25 | 12.24 | 7.42 | 55.40 | 13.64 |
| | 3 | 5.94 | 35.53 | 7.40 | 42.40 | 8.72 |
| | 4 | 2.84 | 43.56 | 15.91 | 20.69 | 10.80 |
| | 5 | 8.36 | 42.04 | 18.26 | 20.69 | 10.44 |
| 13 | 1 | 34.84 | 26.61 | 12.65 | 23.37 | 2.51 |
| | 2 | 43.33 | 16.08 | 1.98 | 32.86 | 3.75 |
| | 3 | 49.86 | 13.40 | 8.53 | 14.34 | 13.87 |
| | 4 | 26.57 | 27.61 | 1.54 | 40.74 | 3.14 |
| | 5 | 50.71 | 9.68 | 6.09 | 33.51 | 0.0 |
| 14 | 1 | 0.03 | 42.31 | 5.22 | 51.83 | 0.56 |
| | 2 | 0.11 | 45.70 | 3.13 | 45.51 | 5.23 |
| | 3 | 1.59 | 57.63 | 3.47 | 32.20 | 3.0 |
| | 4 | 1.90 | 24.85 | 3.33 | 63.68 | 0.24 |
| | 5 | 3.58 | 69.30 | 13.18 | 9.79 | 3.14 |
| 15 | 1 | 0.69 | 51.21 | 26.64 | 21.11 | 0.33 |
| | 2 | 3.57 | 31.79 | 10.00 | 39.11 | 15.54 |
| | 3 | 1.69 | 40.28 | 23.65 | 13.51 | 14.86 |
| | 4 | 0.76 | 69.61 | 14.55 | 15.35 | 0.52 |
| | 5 | 0.0 | 55.75 | 4.74 | 30.33 | 1.73 |
| 16 | 1 | 51.52 | 15.12 | 3.78 | 29.30 | 0.27 |
| | 2 | 52.46 | 14.68 | 3.02 | 29.09 | 0.76 |
| | 3 | 28.52 | 15.40 | 0.76 | 54.16 | 0.96 |
| | 4 | 54.79 | 14.50 | 0.66 | 23.71 | 1.12 |
| | 5 | 56.43 | 11.51 | 3.45 | 26.35 | 2.25 |

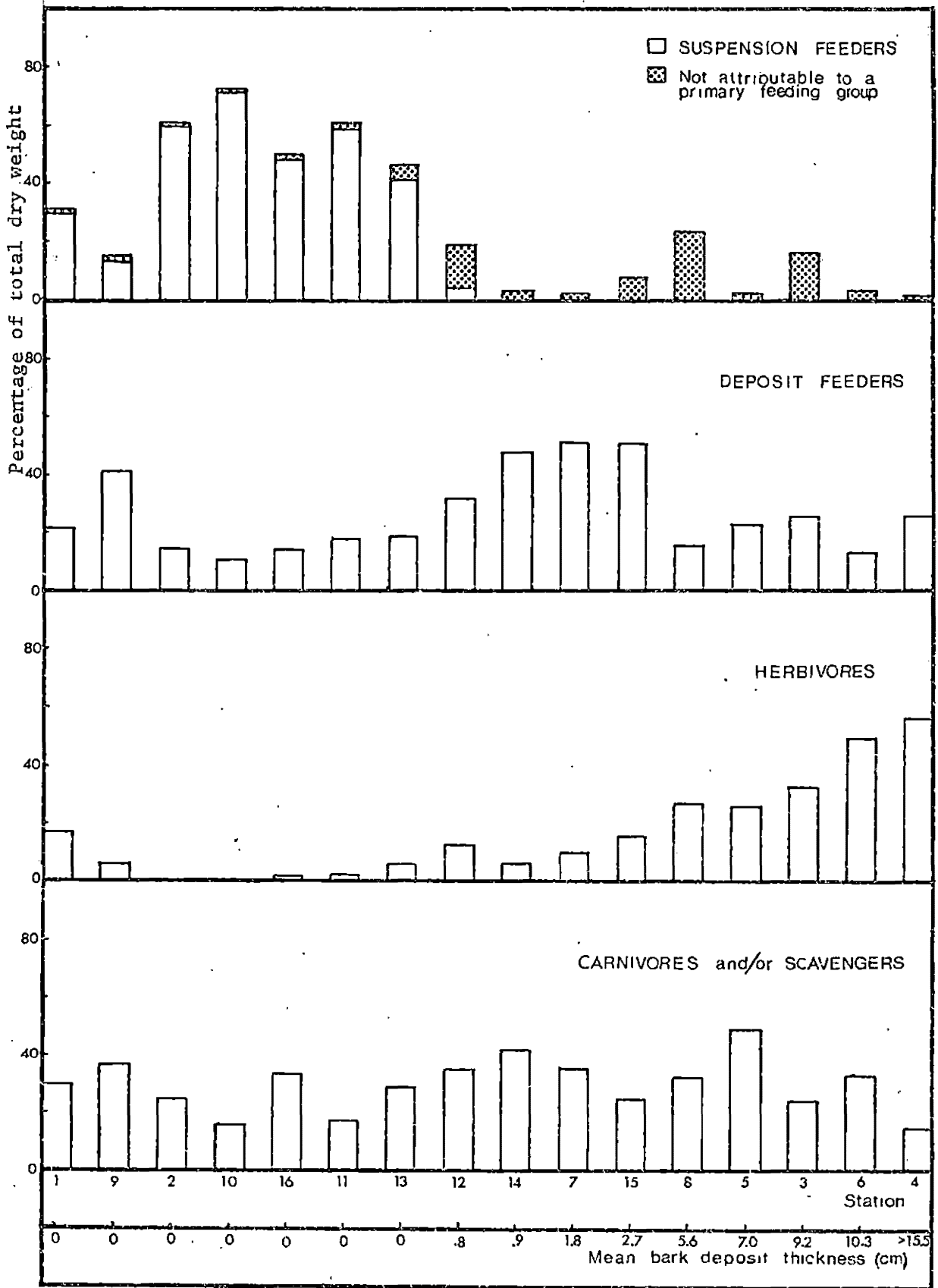


Figure 4.12 Proportion of dry weight represented by primary feeding types at each station

proportion of suspension feeder biomass, accountable in main, to fluctuations of the polychaete dominant *Mesochaetopterus taylori*.

From these observations it can be concluded that bark deposition creates an environment unfavorable to suspension feeders. The evident resurgence of suspension feeders to either side of the bark debris mat suggests that food availability is not the limiting factor. It is likely, then, that deposited bark and wood debris presents an unfavorable substrate, perhaps by discouraging the settlement of larvae or by presenting a hard and unwieldy substrate to burrowers. Bagge (1969) observed that benthic wood chips and pulp mill fiber in a Baltic Sea estuary restricted infaunal penetration to the top 7.5 cm of the sediments. A compounding effect of wood debris on suspension feeders could be settling particles, which would inhibit feeding and clog the filtering apparatus.

The clear increase of herbivore biomass with bark deposit thickness was due to a corresponding increase in abundance of the shipworm *Bankia setacea*, the gribble *Limnoria lignorum*, and the Nereid polychaetes *Platynereis bicanaliculata* and *Nereis brandti*. This trend is a reflection of the living habits of each organism: the shipworm and gribble rely on wood and bark debris for shelter and a food source, and the Nereids use the debris as a substrate for the composition and attachment of tubes.

The specification of the wood-eating organisms *Bankia setacea* and *Limnoria lignorum* as herbivores is somewhat arbitrary and they could very well be labelled as deposit feeders. If such were the case, a positive relationship of the deposit feeding group to fiber thickness would develop. This trend, in conjunction with the inverse suspension

feeder response, has been documented for pulp mill fiber beds (Bagge, 1969; Rosenburg, 1973; Leppäkoski, 1975), sewage effluent grounds (Reish, 1959a) and habitats where water currents are weak and the clay content of the benthic substrate is high (Mare, 1942; Sanders, 1956; Sanders *et. al*, 1962; Carey, 1965; Craig and Jones, 1966; Rhoads and Young, 1970; Young and Rhoads, 1971).

Differentiation of the deposit feeding group into selective and non-selective feeding types by Mare (1942) and Sanders (1956) indicated that this former group would predominate over the latter in coarser sediments. When the distribution of some non-selective feeders (eg. of the Maldanidae, Orbiniidae, Capitellidae, Scalibregmidae, Sipunculida, Holothuroidea) was compared with the selective feeders (eg. of the Spionidae, Cirratulidae, Terebellidae, Ampharetidae, Trichobranchidae, Magelonidae, Nebaliacea), a similar response to bark debris was suggested. In contrast to the well sorted sands of the control area, bark and wood particles would likely be too large for non-selective feeders to ingest, while bacterial and diatom growths coating the debris would provide a more nutritious food source for selective feeders. This may explain the predominance of deposit feeders at stations 7, 12, 14 and 15. The bark particles at these stations are finely divided and thus provide a large surface-area-to-volume ratio for microbial populations. A reduction in this ratio in coarser deposits and a diminution in organic content of the sand bed would result in a loss of microbiota and the observed reduction of deposit feeders at these stations.

The clear alteration of the herbivorous and deposit feeding groups in the bark debris and the near obliteration of suspension feeders shows that the complexity of the infaunal food web is reduced by bark deposition.

This disruption is therefore another indication that the biologically accommodated community (Sanders, 1968) of the sand bed is being dislocated by the effects of bark debris deposition to a more physically controlled faunistic association.

(ix) Succession in bark debris

Station 3 is situated in a part of the bark fiber bed which formed during the time when a log dump and booming ground was operating at Verdier Point. In 1958 this operation was abandoned. Figure 3.1 shows that Station 3 is situated at a distance from and upcurrent of (Herlinveaux, 1962) any sources of fresh debris. Hence it may be concluded that little fresh debris has deposited since. Scuba observations substantiated this. The bark fiber was finely particulate and intermixed with silt to form a soft bed. Sediment cores (Figure 4.2) showed that the bark deposit had a mean thickness of 9.2 cm and overlaid sediment composed of sand, pebble and shell.

Faunal repopulation of benthic wood debris beds has been documented for some log booming grounds and pulp mills. Aquatic decomposition of wood is very slow. A Task Force survey of log storage and rafting in western North America waters (1971) reports that a lake on the Oregon coast, used for log handling in the early 1900's, still contains large quantities of bark. Faunistic succession is similarly slow. At a booming ground abandoned for 12 years, Pease (1973) found that a still thick mat of bark debris lay on the sea bottom and only a slight increase in faunal density and diversity was measurable. Walker (1973) even observed a reduction in both indices. Infaunal composition was dissimilar to non-fiber sediments, but even more so to actively depositing fiber beds. He concluded that silting over of the fiber bed, after booming operations ceased, reduced the availability of shelter provided by the debris, resulting in the loss of fauna.

Rosenberg (1973) found that the benthos of a Swedish fjord quickly responded to cessation of pulp mill effluent discharge. Density, biomass

and diversity increased to pre-discharge levels in 5 years time and a portion of the original numbers of suspension feeders also returned. Dean and Haskin (1964) documented similar trends following sewage discharge abatement. Faunistic recolonization occurred in waves of species which could be classified as pioneer species, secondary invaders and progressive penetrators.

A survey of the data collected at station 3 indicates that succession is not far advanced. Infaunal density (Figure 4.3) and biomass (Figure 4.4) were as low as at the thick bark deposit stations. As with all fiber stations, molluscan abundance was depressed. Molluscan biomass, however, was unexpectedly high, due mainly to the bivalve *Macoma nasuta*.

The fauna of station 3 retained all the major components which characterized the benthos of the thick bark deposit stations. Cluster analysis (Appendix V) and ordination (Figures 4.6 and 4.7) indicated that the fauna showed little similarity to types found either in the adjacent sand bed or in thin fiber. The geometric shape of the dominance-diversity curve (Figure 4.10) and the exclusion of suspension feeders (perhaps with the exception of *Macoma nasuta* (Reid and Reid, 1969), suggested that this area is still very much physically controlled (Sanders, 1968)

The fine composition of the bark debris particles and the evidence of old tubes of *Bankia setacea* indicate that the fauna may have been more like that of the thickest stations in the past. This evidence, along with the appearance of the bivalves *Macoma* and *Lucinoma tenuisculpta* both in number and in weight suggest that succession may be in its preliminary stages. In view, however, of the marked impact of

fiber at even low levels of cover (eg. stations 12 and 14 where deposit thickness is 0.8 and 0.9 cm), return of the infauna to the sand bed form cannot be anticipated until the bark debris mat entirely disappears.

PART V. Conclusions

A log dump and booming ground located 2 km south of Mill Bay, B.C., is generating bark and wood debris which has deposited over approximately 1 km² of sea bottom along the northwest coast of Saanich Inlet. Immediately around the dump and booming area, the heaviest deposits form a mat more than 15 cm. deep.

The benthic biota of the fiber blanket was compared to that of the surrounding sand bed. The bottom fauna differed markedly, both qualitatively and quantitatively, yet retained many common species attributes. Variations of such environmental factors as water salinity, temperature and organic carbon content were not great enough to cause the observed faunistic differentiations. The most obvious variation in the environment was the substrate type, more particularly, the amount of bark debris covering the sea bed.

An extensive core survey revealed that the sediments underlying the bark fiber closely resembled the surrounding sand bed substrate. It is generally recognized that, environmental conditions being equal, in similar sediments a similar composition of fauna can be expected (Thorson, 1957). Thus it could be assumed that in all probability the fauna occurring in the area of the fiber bed previous to deposition would be described by the present-day neighbouring sand bed fauna. From this observation, and the fact that community classification and ordination analyses revealed that a close relationship existed between the thickness of bark debris and the loss of control community attributes, it was concluded that the faunistic response must be primarily due to the effect of bark debris deposition.

Because the area of study is a shallow subtidal slope, the differ-

entiation of characterizing species in the manner of Thorson's (1957) level bottom community analysis was not possible. The dominant control fauna in any case, resembled neither his shallow sand *Tellina* and *Venus* communities nor his shallow estuarine *Macoma* community. Determination, however, of relative faunal abundance, biomass and production (using Pamatmat's (1966) respiration index) by the methods of Ellis (1969), revealed species which, by their ecological significance in the sand or bark debris beds, may require further study.

Briefly, the sand bed fauna is dominated by two suspension feeding Chaetopterid polychaetes, *Mesochaetopterus taylori* and *Phyllochaetopterus prolifica*, the latter which predominates at the deeper stations. Associated with these organisms is a host of other dominants, particularly the Maldanid polychaete *Axiiothella rubrocincta*, the Capitellid polychaetes *Notomastus tenuis* and Capitellidae sp., the errant polychaetes *Nephtys*, *Lumbrinereis* and *Onuphis elegans*, the tiny bivalve *Mysella tumida*, and two amphipod crustaceans *Protomeia* and *Ampelisca*. This sand bed community may cover some length of coastline as it has also been found to occur 9.5 km to the north (Ellis, 1967) and continues at least another 3 km to the south, only to be interrupted by the bark fiber blanket.

The majority of the sand bed dominants were abruptly decimated by bark deposition, although most persisted in marginal areas of the fiber blanket. Bark deposition is marked by the appearance of some new species, such as the wood borers *Bankia setacea* and *Limnoria lignorum*, but many of the fiber dominants are original components of the sand fauna. Some of the dominants which may be ecologically significant in the bark debris are, the polychaetes *Dorvillea annulata*, *Platynereis bicanaliculata*, Hesionidae and *Prionospio*, and the tiny crustaceans

Limnoria lignorum, *Leptochelia savignyi* and *Nebalia pugettensis*.

Species of *Dorvillea*, *Leptochelia* and *Nebalia* have been observed in similar explosive numbers in a pulp mill fiber bed (Ellis, 1970) in British Columbia, and in a layer of terrigenous litter on the sea bottom of Puget Sound (Lie, 1968) and a Scottish loch (Pearson, 1972).

Bark deposition seems to affect benthic biota in several ways. The distribution of some organisms may be enhanced, the debris providing a stable substratum for macroalgae, for sessile fauna such as the anemone *Metridium senile*, and for the tube builders *Leptochelia savignyi* and *Platynereis bicanaliculata*. Bark debris and sunken logs as well provide many crevices for cryptic organisms such as crabs and shrimp, and are a food source for wood burrowers.

On the other hand, sediment inhabiting fauna and particularly bivalves are decimated by fiber deposition. Suspension feeding types are replaced by herbivorous and deposit feeding groups, a response which is incurred also by sewage and pulp mill effluent (Reish, 1959a; Bagge, 1969; Rosenberg, 1972). The fauna that inhabit the fiber bed are small in biomass and species number, but nevertheless very abundant and quite diverse as compared to the near azoic regions described by Reish (1959a and b), Ellis (1970) and Jones (1974) for areas receiving heavy loads of sewage effluent, pulp mill fiber and mine tailing, respectively.

Evidence of succession in a non-depositing portion of the fiber mat is scanty. Three species of bivalve common to the sand bed are present in small numbers, and weight determinations indicate that some may be quite old (cf. Thorson, 1957). The low population biomass, the geometric type of dominance diversity and the high affinity of the

fauna to the heavy fiber organisms suggest that if at all, succession is still at a preliminary stage. With the additional evidence that even small levels of bark debris deposition (at most, 0.8 cm mean thickness) are critical to faunistic structure, it may be concluded that re-population of the sand bed fauna will be slow. Furthermore, a return to pre-deposition conditions may not be possible until the fiber blanket is totally withdrawn.

The application of a large number of analytical techniques to the data was made with the intent to elucidate and substantiate faunistic trends and as well to compare and evaluate their operation.

Classification of the data by cluster analysis showed species distributional patterns which could be related to gross environmental differences in sampling depth and substrate type. A comparison of the relative actions of a quantitatively sensitive similarity index (Czekanowski) and a qualitative index (Jaccard) showed that both coefficients responded to strong trends in the data, but individually accentuated different facets. Inverse cluster analysis differentiated the dominant species components of the sand bed and fiber mat and thus substantiated the validity of Ellis' (1969) technique of determining ecologically significant species. Analysis of the data by the qualitatively sensitive Zürich-Montpellier method revealed that species distributions were in the most part broad and unclearly differentiated, suggesting that the bark debris fauna retained a basic similarity to the sand bed community and probably was derived from it.

Ordination of the data revealed that the infaunal distribution could be better described as a continuum which varied primarily in accordance with the thickness of deposited bark debris and secondarily with variability in sampling time and depth. Determination of primary

feeding groups and modelling of the infaunal population showed that deposition of bark debris reduced the diversity and complexity of the population, and thus altered it to a more physically controlled (Sanders, 1968) type of community.

Evaluation of the above analytical methods in reference to the data employed, suggests that their applicability largely depends upon the structure of the data. Qualitatively sensitive methods such as the Zürich-Montpellier analysis and Jaccard's index for clustering respond best to heterogeneous data. The Czekanowski coefficient is sensitive to quantitative trends and thus can be used with more homogeneous data. Transformation of the data helps to reduce the weighting of abundant organisms but in the process may mask gradient trends. Ordination methods do not attempt to block samples into community groups and therefore are most effective with data which reflect a continuum of species distribution. Ordination has the added advantage of objectively isolating faunal gradients for correlation with environmental gradients. Analysis of diversity, primary feeding structure and species-abundance relations may give an insight to community stability and thus should be especially useful in comparative ecological studies and environmental impact assessment.

PART VI

SUMMARY

1. A log handling ground situated in northwest Saanich Inlet, B.C. is generating wood debris which has deposited to a thickness of greater than 15 cm over approximately 1 km² of a coastal sand bed. Since few quantitative studies have yet been made on the effects of bark and wood debris on the benthos, this thesis project was initiated in an attempt to rectify this condition. A further intent of this study was to apply and compare the operation of several mathematical analyses on faunistic data to elucidate and substantiate biotic trends.
2. Five replicate samples were taken with a 0.1 m² van Veen grab in April-May, 1975, and January, 1976 to study infaunal distributions as a function of time, depth and fiber bed thickness. Supportive observations were made by scuba divers on the epifauna, many of which are too large or infrequent to be collected by remote samplers, yet are commercially important or represent a significant portion of the population biomass.
3. It was found that variability in sediment structure and water quality was not great enough to cause the observed faunistic trends. By the complementary use of classification and ordination methods, it was found that infauna respond primarily to a gradient in bark debris thickness and secondarily to depth. Seasonal variability was quantitative rather than qualitative, population numbers and biomass fluctuating to a low in winter and a high in spring.
4. Bark debris showed both positive and negative effects on biota. Sessile, some tube building and cryptic types of organisms seemed to prefer the debris as a stable substrate for attachment and

protection. Wood burrowers such as *Limnoria lignorum* and *Bankia setacea* used the wood as habitation and as a food source.

5. The negative effect of bark deposition was clearly illustrated by the burrowing infauna. A marked response was evident at the thinnest outskirts of the fiber bed (eg. stations 12 and 14, mean fiber thickness 0.8 and 0.9 cm), showing that levels less than 1 cm were critical to the sand community.

Infaunal biomass, particularly that of the mollusca, was greatly reduced in the bark debris. The sand bed community attributes were gradually lost as bark debris thickened. The dominant polychaetes *Mesochaetopterus taylori*, *Phyllochaetopterus prolifica* and *Notomastus tenuis* did not penetrate beyond a level of 2.7 cm mean fiber thickness. The heavily covered portions of the fiber mat were characterized by a low species biomass and diversity, and exclusion of bivalves save for the shipworm *Bankia setacea*. A reduction in faunistic complexity was further evidenced by the loss of the suspension feeding organisms and a predominance of herbivores. Following the definition of Sanders' (1968) stability-time hypothesis, it may be concluded that bark deposition disjoints the infaunal community from a primarily biologically accommodated type to a more physically controlled association. This latter community is characterized by low diversity, complexity and stability.

6. In a portion of the bark deposit which has received little fresh debris compared to conditions prior to 1958, there was little evidence of faunal succession. A return to pre-deposition conditions may not be possible until the bark fiber blanket is totally withdrawn.

7. The numerical analytical methods of classification, ordination, diversity, species-abundance relations and trophic structure analysis were applied to the data in turn to differentiate faunal trends and evaluate the applicability of the techniques in benthic ecological analyses. The results indicate that the relative merit of each will vary with the structure of the data. Cluster and Zürich-Montpellier analyses responded to gross biotic differences and thus are important in isolating communities and their characterizing species. Ordination was sensitive to faunistic gradients and hence is applicable to more homogeneous data. Species-abundance, diversity and trophic structure measures examined community complexity and stability. A combination of the analyses in complementary fashion is suggested to be the best approach to elucidate and substantiate faunistic trends.

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APPENDICES

Appendix I. Description of permanent station locations. Stations 1 to 13 were sampled from 28 April to 7 May 1975 and stations 14 to 16 were sampled on 22 January 1976.

| Station No. | Sampling depth (meters below chart datum) | | Bark thickness (cm) | | Location |
|-------------|---|------|---------------------|------|--|
| | \bar{X} | SD | \bar{X} | SD | |
| 1 | 4.9 | 0.21 | 0.0 | 0.00 | 4 telephone poles NW of blue house on shoreline road, directly opposite speed road sign, 100 meters from shore |
| 2 | 7.2 | 0.26 | 0.0 | 0.00 | Same location as station 1, 110 meters from shore |
| 3 | 5.1 | 1.06 | 9.2 | 2.59 | Opposite abandoned log slide ramp embedded in the beach; 80 meters from shore |
| 4 | 5.0 | 0.36 | >15.5 | N/A | Adjacent to the 3rd dolphin NW of the active log dump spit; 80 meters from shore |
| 5 | 7.1 | 0.24 | 7.0 | 1.67 | Adjacent to dolphin located directly offshore of station 4; 160 meters from shore |
| 6 | 4.0 | 0.23 | 10.3 | 0.96 | Adjacent to anchor drum marking the SE corner of the log booming ground; 95 meters from shore |
| 7 | 7.1 | 0.34 | 1.8 | 1.26 | Adjacent to the first of the east set of dolphins located SE of the log dump spit; 160 meters from shore |
| 8 | 4.8 | 0.25 | 5.6 | 2.19 | Adjacent to the 3rd dolphin of the east set located SE of the log dump spit; 100 meters from shore |
| 9 | 4.8 | 0.40 | 0.0 | 0.00 | 2 telephone poles SE of blue spring on shoreline road; 80 meters from shore |
| 10 | 7.8 | 0.48 | 0.0 | 0.00 | Same location as station 9; 120 meters from shore |
| 11 | 10.9 | 1.04 | 0.0 | 0.00 | Same location as station 1; 170 meters from shore |
| 12 | 10.3 | 0.70 | 0.8 | 0.71 | 70 meters NE of anchor drum situated opposite the log booming ground; 250 meters from shore |

Appendix I, continued

| Station No. | Sampling depth (meters below chart datum) | | Bark thickness (cm) | | Location |
|-------------|---|------|---------------------|------|---|
| | \bar{X} | SD | \bar{X} | SD | |
| 13 | 10.8 | 0.37 | 0.0 | 0.00 | Same location as station 9; 160 meters from shore |
| 14 | 7.4 | 0.67 | 0.9 | 0.65 | Adjacent to the southernmost of the set of 4 dolphins at Verdier Point; 100 meters from shore |
| 15 | 7.3 | 0.32 | 2.7 | 2.52 | 90 meters directly offshore of the log dump spit |
| 16 | 7.5 | 0.06 | 0.0 | 0.00 | Same location as station 10 |

APPENDIX II

Species primary feeding types with relevant references
from the literature

| TAXON CODE | PRIMARY FEEDING HABIT * | DOCUMENTING LITERATURE |
|------------|----------------------------|--|
| FORAM 1 | C/S | Barnes (1969) |
| FORAM 2 | C/S | Barnes (1969) |
| ACOTYLEA | C/S | Yonge (1928), Mare (1942), MacGinitie and MacGinitie (1968), Barnes (1969) |
| NEMERTEA | C/S | Yonge (1928), Mare (1942), MacGinitie and MacGinitie (1968), Gibson (1972) |
| NEMATODA | U | |
| DIO ORN | C/S | Dales (1963) |
| DORV ANN | D | Reish (1959a), Dales (1967) |
| ET LONGA | C/S | Dales (1962) |
| ET PACI | C/S | Dales (1962) |
| EUL MAC | C/S | Dales (1962) |
| EUL SANG | C/S | Dales (1962) |
| EXO VERU | C/S | Dales (1962) |
| GLYC AME | C/S | Yonge (1928), Dales (1962), MacGinitie and MacGinitie (1968) |
| GLYC CAP | C/S | Yonge (1928), Dales (1962), MacGinitie and MacGinitie (1968) |
| GLYCERA | C/S | Yonge (1928), Dales (1962), MacGinitie and MacGinitie (1968) |
| GLYCINDE | C/S | Dales (1962), MacGinitie and MacGinitie (1968) |
| HEMIP BO | C/S | Dales (1962) |
| HES'IDAE | C/S | Dales (1962), Kozloff (1973) |
| LEP LONG | C/S | Dales (1962) |
| LUMBRINE | H | Dales (1962) |
| MICRO NA | H | Dales (1962), Kozloff (1973) |
| NEPHTYS 1 | C/S | Yonge (1928), Mare (1942), Sanders (1960), Clark (1962), Dales (1962), Kozloff (1973) |
| NEPHTYS | C/S | Yonge (1928), Mare (1942), Sanders (1960), Clark (1962), Dales (1962), Kozloff (1973) |
| NER BRAN | H | Ricketts and Calvin (1968), MacGinitie and MacGinitie (1968), Wilmoth (1967) |
| NER PROC | D | Reish (1959a) |
| ONU ELEG | C/S | Reish (1959a) |
| PALE BEL | C/S | Dales (1962) |
| PEIS ASP | C/S | Pettibone (1953), Dales (1962) |
| PHOLO MI | C/S | Pettibone (1953), Dales (1962), Leppäkoski (1975) |
| PHY GRO | C/S | Dales (1962), Southward (1965) |
| PHY MAC | C/S | Dales (1962) |
| PLAT BIC | H | MacGinitie and MacGinitie (1968), Kozloff (1973) |
| POLY TUT | C/S | Pettibone (1953), Dales (1962) |
| POLYNO 1 | C/S | Pettibone (1953), Dales (1962) |
| POLYNO 2 | C/S | Pettibone (1953), Dales (1962) |
| PROT GRA | U | |
| SIG'IDAE | C/S | Pettibone (1953), Dales (1962) |
| STHEN BE | C/S | Pettibone (1953), Dales (1962) |
| SYLLIDAE | C/S | Dales (1962) |
| SYLLIS | C/S | Dales (1962) |
| EP FRAG | U | |
| AMPHA AR | D | Dales (1962) |
| AMPH'DAE | D | Dales (1962) |

| TAXON CODE | PRIMARY FEEDING HABIT * | DOCUMENTING LITERATURE |
|------------|----------------------------|---|
| ARM BREV | D | Dales |
| AXIO RUB | D | Dales (1967), Kozloff (1973), and by gut contents analysis |
| CAP CAP | D | Reish (1959a), Dales (1967), Hendriksson (1969), Young and Rhoades (1971) |
| CAP'IDAE | D | Dales (1962), Southward (1965) |
| CIR'INAE | D | Dales (1962), Southward (1965), and by gut contents analysis |
| HAPLO EL | D | Dales (1962) |
| LAON CIR | D | Dales (1962) |
| MAGEL PI | D | Dales (1962) |
| MAL'IDAE | D | Dales (1962), Newell (1970), and by gut contents analysis |
| MESO TAY | S | Jorgensen (1955), MacGinitie and MacGinitie (1968), Tait and DeSanto (1972) |
| MYRIO OC | D | Dales (1962), Rosenberg (1973) |
| NEO ROB | D | Dales (1962) |
| NOTO TEN | D | Yonge (1928), Kozloff (1973) and by gut contents analysis |
| OPHEL LI | D | Dales (1967) and by gut contents analysis |
| OPH'IDAE | D | Dales (1967) |
| OWEN FUS | D | Dales (1967), Newell (1970), and by gut contents analysis |
| PECT BRE | D | Dales (1962), MacGinitie and MacGinitie (1968), Ricketts and Calvin (1968) |
| PHYL PRO | S | Dales (1962), MacGinitie and MacGinitie (1968) |
| PISTA CR | D | Dales (1962) |
| POLYCIRR | D | Dales (1962) |
| POLYDORA | D | Young and Rhoades (1971) |
| PRIONOSP | D | Dales (1962), Young and Rhoades (1971) |
| PS'POT R | S | Dales (1962) |
| PS'SAB L | D | Dales (1962) |
| SAB'IDAE | S | Dales (1962) |
| SCAL INF | D | Yonge (1928), Mare (1942), Dales (1962) |
| SPIO FLL | D | Dales (1962) |
| STREB BA | D | Dales (1962) |
| STYL PLU | D | Dales (1962) |
| TELE COS | S | Dales (1962), MacGinitie and MacGinitie (1968) |
| TERE STR | D | Dales (1962), Hendriksson (1969), Newell (1970), Young and Rhoades (1971) |
| TER'IDAE | D | Dales (1962), Newell (1970) |
| TRIC GLA | D | Mare (1942), Dales (1963) |
| SP FRAG | U | |
| ACTEOCIN | U | |
| GAST 1 | U | |
| GAST 2 | U | |
| MITR TUB | U | |
| NASS MEN | C/S | Hyman (1967), MacGinitie and MacGinitie (1968), Newell (1970) |
| OENOPOTA | C/S | Hyman (1967), Purchon (1968) |
| OPHISTHOB | U | |
| TURBONIL | C/S | Hyman (1967) |
| POLYPLAC | H | Morton (1960), Newell (1970) |
| ACILA CA | D | Jorgensen (1955), Newell (1970) |
| AXIN SER | D | Purchon (1968) |
| BANK SET | H | Yonge (1928), Morton (1960) |
| BIV 1 | U | |
| BIV 2 | U | |

| TAXON CODE | PRIMARY FEEDING HABIT * | DOCUMENTING LITERATURE |
|------------|----------------------------|---|
| BIV 3 | U | |
| CARD VEN | S | Jørgensen (1955) |
| CLINOCAR | S | Jørgensen (1955) |
| LUCI ANN | D | Purchon (1968) |
| LUCI TEN | D | Purchon (1968) |
| MACOMA | U | |
| MODI REC | S | Jørgensen (1955), Purchon (1968), Jackson (1972) |
| MUSC LAE | S | Jørgensen (1955), Purchon (1968) |
| MYA AREN | S | Ricketts and Calvin (1968), Newell (1970), Young and Rhoades (1971) |
| MYS TUMI | S | Jørgensen (1955), Maurer (1967) |
| NUC TEN | D | Sanders (1960), Newell (1970) |
| PODO CEP | S | Jørgensen (1955) |
| PSEP LOR | S | Newell (1970) |
| SOLA COL | S | Jørgensen (1955), Purchon (1968) |
| TELLINA | D | Newell (1970), Jackson (1972) |
| THYA FLE | D | Bernard (1972) |
| OSTRACOD | U | |
| COPE:CAL | U | |
| COPE:HAR | U | |
| BALANUS | S | Newell (1970) |
| NEB PUG | D | Marshall and Orr (1960), Ricketts and Calvin (1965) |
| CUM 1 | D | Mare (1942), Marshall and Orr (1960), Meglitsch (1967), Wilmoth (1967), Gladfelter (1975) |
| CUM 2 | D | Mare (1942), Marshall and Orr (1960), Meglitsch (1967), Wilmoth (1967), Gladfelter (1975) |
| CUM 3 | D | Mare (1942), Marshall and Orr (1960), Meglitsch (1967), Wilmoth (1967), Gladfelter (1975) |
| DIASTYLI | S | Wilmoth (1967), Barnes (1969), Gladfelter (1975) |
| LEPT SAV | C/S | Wilmoth (1967), Barnes (1969) |
| LIMN LIG | H | Lane (1959), Marshall and Orr (1960), Ricketts and Calvin (1968) |
| PARA ELE | C/S | MacGinitie and MacGinitie (1968), Barnes (1969) |
| CAPRELLI | C/S | Green (1968), MacGinitie and MacGinitie (1968), Barnes (1969), McCain (1975) |
| AMP'IDAE | D | Bousfield (pers. comm.) |
| AMP'ISCA | S | Bousfield (pers. comm.) |
| AMPITHOE | D | Bousfield (pers. comm.) |
| AOR COLU | D | Bousfield (pers. comm.) |
| COROPH | D | Bousfield (pers. comm.) |
| GAM'IDEA | U | |
| MELI DEN | D | Bousfield (pers. comm.) |
| MELITA | D | Bousfield (pers. comm.) |
| OED'IDAE | D | Bousfield (pers. comm.) |
| PHOTIS B | D | Bousfield (pers. comm.) |
| PHOX'DAE | D | Bousfield (pers. comm.) |
| PROTOMED | D | Bousfield (pers. comm.) |
| SYN SHOE | D | Bousfield (pers. comm.) |
| CAL GIG | D | MacGinitie and MacGinitie (1968), Kozloff (1973) |

| TAXON CODE | PRIMARY FEEDING HABIT * | DOCUMENTING LITERATURE |
|------------|-------------------------|---|
| CANC BRA | C/S | Marshall and Orr (1960) |
| CANC GRA | C/S | Marshall and Orr (1960) |
| CANC PRO | C/S | Marshall and Orr (1960) |
| CRAN DAL | U | |
| EUALUS | C/S | Kozloff (1973) |
| HEMIG OR | C/S | Kozloff (1973) |
| MUNI QUA | U | |
| OREG GRA | U | |
| PAG ALEU | D | Kozloff (1973) |
| PAG BER | D | Marshall and Orr (1960), MacGinitie and MacGinitie (1968), Kozloff (1973) |
| PAND PLA | U | |
| PINN FAB | C/S | MacGinitie and MacGinitie (1968), Kozloff (1973) |
| PINN OCC | U | |
| PINN TUB | D | Ricketts and Calvin (1968) |
| PUG GRA | U | |
| SCLER AL | U | |
| SCYRA AC | U | |
| SPIR PRI | C/S | MacGinitie and MacGinitie (1968) |
| AMPHI UR | D | Ricketts and Calvin (1968), Barnes (1969), Kozloff (1969) |
| OPH ACUL | D | Guberlet (1962), Ricketts and Calvin (1968), Jones (1973) |
| ASTEROID | C/S | MacGinitie and MacGinitie (1968), Barnes (1969), Sutton (1975) |
| PYCNO HE | C/S | MacGinitie and MacGinitie (1968), Barnes (1969), Sutton (1975) |
| ECHINOID | H | MacGinitie and MacGinitie (1968), Barnes (1969), Pearse (1975) |
| DENDROCH | D | MacGinitie and MacGinitie (1968), Barnes (1969), and by gut content analysis |
| LEPTO CL | D | MacGinitie and MacGinitie (1968), and by gut contents analysis |
| SIPUNCUL | D | MacGinitie and MacGinitie (1968), Barnes (1969), and by gut contents analysis |
| PHORONID | S | MacGinitie and MacGinitie (1968), Barnes (1969) |
| AMMO HEX | S | Clemens and Wilby (1961) |
| ANOP PUR | C/S | Gut contents analysis |
| PHOLIS L | C/S | Clemens and Wilby (1961) |
| PORI NOT | C/S | Clemens and Wilby (1961), and by gut contents analysis |
| EGG | U | |
| MASS:GEL | U | |
| MASS:HAR | U | |

- * C/S: Carnivore and/or Scavenger
D: Deposit feeder
H: Herbivore
S: Suspension feeder

APPENDIX III

Annotated list of species, acronym codes for computerized data analysis, and notes on taxonomic level of identification

Taxonomic status of organisms collected

| | TAXON | TAXON CODE |
|--|---|------------|
| FORAMINIFERA | Foraminifera 1 * | FORAM 1 |
| | Foraminifera 2 + | FORAM 2 |
| TURBELLARIA | Polycladida: Acotylea * | ACOTYLEA |
| NEMERTEA | Nemertea + | NEMERTEA |
| NEMATODA | Nematoda + (1) | NEMATODA |
| POLYCHAETA | <i>Diopatra ornata</i> Moore | DIO ORN |
| ERRANTIA | <i>Dorvillea annulata</i> (Moore) (= <i>Stauronereis</i>) | DORV ANN |
| | <i>Eteone longa</i> (Fabricius) | ET LONGA |
| | <i>Eteone pacifica</i> Hartman | ET PACI |
| | <i>Eulalia macroceros</i> (Grube) (= <i>Eumida</i>) | EUL MAC |
| | <i>Eulalia sanguinea</i> (Oersted) (2) | EUL SANG |
| | <i>Exogone verugera</i> (Claparède) | EXO VERV |
| | <i>Glycera americana</i> Leidy | GLYC AME |
| | <i>Glycera capitata</i> Oersted | GLYC CAP |
| | <i>Glycera</i> sp. Savigny (3) | GLYCERA |
| | <i>Glycinde</i> sp. Müller (4) | GLYCIDNE |
| | <i>Hemipodous borealis</i> Johnson | HEMIP BO |
| | Hesionidae (5) | HES'IDAE |
| | <i>Lepidasthenia longicirrata</i> Malmgren (= <i>Lepidametria</i>) | LEP LONG |
| | <i>Lumbrinereis</i> sp. Blainville (6) | LUMBRINE |
| | <i>Micronereis nanaimoensis</i> (Berkeley & Berkeley) (= <i>M. variegata</i>) | MICRO NA |
| | <i>Nephtys</i> spp. Cuvier (7) | NEPHTYS1 |
| | <i>Nephtys</i> sp. Cuvier (8) | NEPHTYS |
| | <i>Nereis brandti</i> (Malmgren) (= <i>Neanthes</i>) | NER BRAN |
| | <i>Nereis procera</i> Ehlers (9) | NER PROC |
| | <i>Onuphis elegans</i> (Johnson) (= <i>Nothria</i>) | ONU ELEG |
| | <i>Paleonotus bellis</i> (Johnson) (= <i>P. chrysolepis</i>) | PALE BEL |
| | <i>Peisidice aspera</i> Johnson | PEIS ASP |
| | <i>Pholoe minuta</i> (Fabricius) (= <i>Aphrodita minuta</i>) (= <i>P. tuberculata</i>) | PHOLO MI |
| <i>Phyllodoce groenlandica</i> Oersted (10) (= <i>Anaitides</i>) | PHYL GRO | |
| <i>Phyllodoce maculata</i> (Linnaeus) (11) | PHYL MAC | |
| <i>Platynereis bicanaliculata</i> (Baird) (9) (= <i>P. dumerlii</i> var. <i>agassizi</i>) (Ehlers) | PLAT BIC | |
| <i>Polyeunaxtuta</i> (Grube) (11) | POLY TUT | |
| Polynoidae sp. 1* | POLYNO 1 | |
| Polynoidae sp. 2 * | POLYNO 2 | |
| <i>Protodorvillea gracilis</i> (Hartman) | PROT GRA | |
| Sigalionidae * | SIG'IDAE | |

| TAXON | TAXON CODE |
|---|---|
| <i>Sthenelais berkeleyi</i> Pettibone Syllidae * <i>Syllis</i> sp. Savigny * | STHEN BE SYLLIDAE SYLLIS |
| POLYCHAETA SEDENTARIA | |
| <i>Ampharete arctica</i> Malmgren (12) Ampharetidae <i>Armandia brevis</i> (Moore) (= <i>A. bioculata</i>) <i>Axiothella rubrocincta</i> (Johnson) (13) (= <i>Clymenella</i>) <i>Capitella capitata</i> (Fabricius) Capitellidae (14) Cirratulinae * <i>Haploscoloplos elongatus</i> (Johnson) <i>Laonice cirrata</i> (Sars) <i>Magelona pitelkai</i> Hartman Maldanidae (15) <i>Mesochaetopterus taylori</i> Potts (16) <i>Myriochele oculata</i> Zahs <i>Neoamphitrite robusta</i> Johnson (17) <i>Notomastus tenuis</i> Moore (= <i>Clistomastus</i>) <i>Ophelia limacina</i> (Rathke) Opheliidae (18) <i>Owenia fusiformis</i> (delle Chiaje) (19) (= <i>Ammochares</i> = <i>O. collaris</i>) <i>Pectinaria granulata</i> (Linnaeus) (20) (= <i>Cistenides</i>) <i>Phyllochaetopterus prolifica</i> Potts (21) <i>Pista cristata</i> (Müller) (22) <i>Polycirrus</i> sp. Grube * <i>Polydora</i> sp. Bosc (23) <i>Prionospio</i> sp. Malmgren (24) <i>Pseudopotamilla reniformis</i> (Leukhart) (25) <i>Pseudosabellides littoralis</i> Berkeley (26) Sabellidae + <i>Scalibregma inflatum</i> Rathke <i>Spio filicornis</i> (O.F. Müller) <i>Streblosoma bairdi</i> (Malmgren) <i>Stylaroides plumosa</i> (O.F. Müller) (= <i>Pherusa</i>) <i>Telepsavus costarum</i> Claparède (27) (= <i>Spiochaetopterus</i>) <i>Terebellides stroemi</i> Sars Terebellidae <i>Trichobranchus glacialis</i> Malmgren | AMPHA AR AMPH'IDAE ARM BREV AXIO RUB CAP CAP CAP'IDAE CIR'IDAE HAPLO EL LAON CIR MAGEL PI MAL'IDAE MESO TAY NYRIO OC NEO ROB NOTO TEN OPHEL LI OPH'IDAE OWEN FUS PECT GRA PHYL PRO PISTA CR POLYCIRR POLYDORA PRIONOSP PS'POT R PS'SAB L SAB'IDAE SCAL INF SPIO FIL STREB BA STYL PLU TELE COS TERE STR TER'IDAE TRIC GLA |
| GASTROPODA | |
| <i>Acteocina</i> sp. Gray Gastropoda sp. 1 * Gastropoda sp. 2 * <i>Mitrella tuberosa</i> (Carpenter) <i>Nassarius mendicus</i> (Gould) <i>Oenopota</i> sp. Mörch * Opisthobranchia + <i>Turbonilla</i> sp. Risso * | ACTEOCIN GAST 1 GAST 2 MITR TUB NASS MEN OENOPOTA OPISTHOB TURBONIL |

| TAXON | TAXON | TAXON CODE |
|-------------|--|------------|
| AMPHINEURA | Polyplacophora * | POLYPLAC |
| BIVALVIA | <i>Acila castrensis</i> (Hinds) (= <i>Nucula</i>) | ACILA CA |
| | <i>Axinopsida serricata</i> (Carpenter) | AXIN SER |
| | <i>Bankia setacea</i> Tyron | BANK SET |
| | <i>Bivalvia</i> sp. 1 | BIV 1 |
| | <i>Bivalvia</i> sp. 2 | BIV 2 |
| | <i>Bivalvia</i> sp. 3 | BIV 3 |
| | <i>Cardita ventricosa</i> Gould | CARD VEN |
| | <i>Clinocardium</i> sp. Keen | CLINOCAR |
| | <i>Lucinoma annulata</i> (Reeve) | LUCI ANN |
| | <i>Lucinoma tenuisculpta</i> Carpenter | LUCI TEN |
| | <i>Macoma</i> spp. (28) | MACOMA |
| | <i>Modiolus rectus</i> (Conrad) | MODI REC |
| | <i>Musculus laevigatus</i> (Gray) | MUSC LAE |
| | <i>Mya arenaria</i> Linné | MYA AREN |
| | <i>Mysella tumida</i> (Carpenter) (= <i>Rochefortia</i>) | MYS TUMI |
| | <i>Nucula tenuis</i> (Montagu) | NUC TEN |
| | <i>Pododesmus cepio</i> (Gray) | PODO CEP |
| | <i>Psephidia lordi</i> (Baird) | PSEP LOR |
| | <i>Solamen columbianum</i> (Dall) (29) (= <i>Rhomboidella columbiana</i> = <i>Crenella rotundata</i> Dall) | SOLA COL |
| | <i>Tellina</i> spp. Linné + | TELLINA |
| | <i>Thyasira flexuosa</i> (Montagu) | THYA FLE |
| OSTRACODA | Ostracoda + | OSTRACOD |
| COPEPODA | Calanoida | COPE:CAL |
| | Harpacticoida | COPE:HAR |
| CIRRIPIEDIA | <i>Balanus</i> sp. * | BALANUS |
| NEBALIACEA | <i>Nebalia pugettensis</i> (Clark) (= <i>Epinebalia</i>) | NEB PUG |
| CUMACEA | Cumacea 1 (30) | CUM 1 |
| | Cumacea 2 (31) | CUM 2 |
| | Cumacea 3 (32) | CUM 3 |
| | <i>Diastylis</i> sp. | DIASTYLI |
| TANAIDACEA | <i>Leptochelia savignyi</i> (Krøyer) (33) | LEPT SAV |
| ISOPODA | <i>Limmoria lignorum</i> Rathke (34) | LIMN LIG |
| | <i>Paranthura elegans</i> Menzies | PARA ELE |
| AMPHIPODA | Caprellidea + | CAPRELLI |
| | Ampeliscidae (35) | AMP'IDAE |
| | <i>Ampithoe</i> Leach | AMPITHOE |
| | <i>Aorides columbiae</i> Walker (= <i>A. californica</i>) | AOR COLU |
| | <i>Corophium</i> Latreille (36) | COROPH |
| | Gammaridea (37) | GAM'IDEA |
| | <i>Melita dentata</i> (Krøyer) | MELI DEN |
| | <i>Melita</i> sp. Leach (38) | MELITA |
| | <i>Oedicerotidae</i> (39) | OED'IDAE |

| TAXON | | TAXON CODE |
|---------------|---|------------|
| | <i>Photis brevipes</i> Shoemaker | PHOTIS B |
| | Phoxocephalidae + | PHOX'DAE |
| | <i>Protomedeia</i> Krøyer | PROTO MED |
| | <i>Synchelidium shoemakeri</i> Mills | SYN SHOE |
| DECAPODA | <i>Callinassa gigas</i> Dana (= <i>C. longimana</i>) | CAL GIG |
| | <i>Cancer branneri</i> Rathbun | CANC BRA |
| | <i>Cancer gracilis</i> Dana | CANC GRA |
| | <i>Cancer productus</i> Randall | CANC PRO |
| | <i>Crangon dalli</i> Rathbun | CRAN DAL |
| | <i>Eualus</i> sp. | EUALUS |
| | <i>Hemigrapsus oregonensis</i> (Dana) | HEMIG OR |
| | <i>Munida quadrispina</i> Benedict | MUNI QUA |
| | <i>Oregonia gracilis</i> Dana (40) | OREG GRA |
| | <i>Pagurus aleuticus</i> (Benedict) | PAG ALEU |
| | <i>Pagurus beringanus</i> (Benedict) | PAG BER |
| | <i>Pandalus platyceros</i> Brandt (41) | PAND PLA |
| | <i>Pinnixia faba</i> (Dana) (42) | PINN FAB |
| | <i>Pinnixia occidentalis</i> Rathburn (43) | PINN OCC |
| | <i>Pinnixia tubicola</i> Holmes | PINN TUB |
| | <i>Pugettia gracilis</i> Dana | PUG GRA |
| | <i>Sclerocrangon alata</i> Rathburn | SCLER AL |
| | <i>Seyra acutifrons</i> Dana | SCYRA AC |
| | <i>Spirontocaris prionota</i> (Stimpson) | SPIR PRI |
| OPHIUROIDEA | <i>Amphiodia urtica</i> (Lyman) | AMPHI UR |
| | <i>Ophiopholis aculeata</i> (Linnaeus) | OPH ACUL |
| ASTEROIDEA | Asteroidea * | ASTEROID |
| | <i>Pycnopodia helianthoides</i> (Brandt) | PYCNO HE |
| ECHINOIDEA | Echinoida * | ECHINOID |
| HOLOTHUROIDEA | <i>Dendrochirotidae</i> (44) | DENDROCH |
| | <i>Leptosynapta clarki</i> (Heding) (45) | LEPTO CL |
| SIPUNCULIDA | Sipunculida + | SIPUNCUL |
| PHORONIDA | Phoronida (46) | PHORONID |
| PISCES | <i>Ammodytes hexapterus</i> Pallas | AMMO HEX |
| | <i>Anoplarchus purpureus</i> Gill (47) | ANOP PUR |
| | <i>Pholis laeta</i> (Cope) (48) | PHOLIS L |
| | <i>Porichthys notatus</i> Girard (49) | PORI NOT |
| EGGS | Egg: individual | EGG |
| | Egg mass: gelatinous (50) | MASS:GEL |
| | Egg mass: hard shelled (51) | MASS:HAR |

* one species

+ more than one species

Notes:

- 1) Nematodes were abundant in the sand bed and within bark and wood particles. In the latter case they were considered too small to be part of the macrofauna.
- 2) Often found in empty tubes of *Mesochaetopterus taylori*.
- 3) Maybe *Glycera siphonostoma* (delle Chiaje)
- 4) Consists of two easily confused species, *Glycinde picta* Berkeley and *Glycinde polygnatha* Hartman
- 5) Consists of two easily confused species, *Gyptis brevipalpa* (Hartman-Schroöder) and *Ophiodromus* (=Podarke) *pugettensis*. The species appeared to be intermixed in equal proportions in both the sand and bark debris.
- 6) May be *Lumbrinereis cruzensis* Hartman (R.M. O'Clair, personal communication)
- 7) Consists of at least two species, *Nephtys caeca* (Fabricius) and *Nephtys longosetosa* Oersted (R.M. O'Clair, personal communication)
- 8) May be *Nephtys caecoides* Hartman
- 9) Found in membranous tubes intertwined in the blades of algae or on pieces of bark
- 10) Found in empty tubes of *Mesochaetopterus taylori* and *Phyllochaetopterus prolifica*
- 11) Found in empty tube of *Mesochaetopterus taylori*
- 12) In the sand bed, tube composed of equal portions of silt and sand grains. In fiber blanket, tube is coated in detritus, intermittently interrupted by a small pebble or bark chip.
- 13) In sand bed, tube is thick coarse sand with a tough mucus lining. At station 14 (0.9 cm mean bark thickness), tube is predominantly sand

with a few bits of bark. At station 8 (5.6 cm mean bark thickness), tube is composed of equal portions of sand and bark.

- 14) Representative specimens identified as *Mediomastus* sp. by R.M. O'Clair.
- 15) Consists of several species represented by the genera *Euclymene* and *Praxillella*
- 16) Tail end of tubes project above the sediment and provide an attachment substrate for small algae and egg cases.
- 17) Found predominantly in the bark fiber blanket. Tubes membranous, completely covered in parallel layers of wood and bark debris, with sand grains interspersed to a greater or lesser extent depending on thickness of the fiber blanket.
- 18) Representative specimens identified as *Travisia forbesii* Johnson (R.M. O'Clair)
- 19) Tube distinctive and characteristic, composed of overlapping sand grains, giving it a shaggy appearance. Next to no bark was utilized for tube construction in the fiber blanket.
- 20) As for *Owenia fusiformis*, sand grains were selected in preference to bark for tube construction
- 21) Empty tubes found to house nemerteans, *Eulalia sanguinea*, *Dorvillea annulata*, *Polydora* and as well provided an attachment substrate to small algae and egg cases.
- 22) Tubes at stations 11 and 13 composed of sand at either end and mud in the middle
- 23) Consists of several species; *Polydora natrix* and *Polydora magna* are tentative
- 24) Representative specimens identified by R.M. O'Clair as *Prionospio steenstrupi* (= *P. malmgreni*)

- 25) Tube stratified into a lower horny section covered by lengthwise bands of bark fibers, and an upper portion banded by detritus and bark particles. Attached to this upper section are egg cases and small algae.
- 26) Tubes covered in detritus and bark, varying in proportions with the thickness of bark cover
- 27) Synonymous with *Spiochaetopterus*. Empty tubes house nemerteans and *Phyllodoce groenlandica*. Many empty tubes found in thinner areas of the bark debris.
- 28) The large specimens of *Macoma* which are restricted to stations 3 and 8 have been subsequently identified as *M. nasuta* Conrad. The remaining specimens appear to be of two species. One species predominates at control stations and is tentatively identified as *M. carlottensis* Whiteaves. The other type is intermediate in size between *M. carlottensis* and *M. nasuta*, and is ubiquitous.
- 29) *Pinnixa faba* found in one specimen
- 30) Telson absent
- 31) Telson present; 5 terminal spines. May be *Lamprops*, *Hemilamprops* or *Mesolamprops*
- 32) May be *Colurostylis*
- 33) Found predominantly in the bark debris, within mucus tubes attached to bark and wood particles. Many are carrying eggs.
- 34) Found in burrows within the bark and wood particles. Many are carrying eggs and juveniles.
- 35) Representative specimens identified by E.L. Bousfield as *Byblis veleronis* (see attached document)
- 36) At least three species, one being *Corophium crassicornis* (E.L. Bousfield,

personal communication)

- 37) Composed of several genera, *Hippomedon*, *Pontogeneia*, *Orchomene*, *Tyron*,
Hexaminidae
- 38) May be *Melita sulca*
- 39) Composed of at least two genera, *Monoculodes* and *Westwoodilla* (E.L.
Bousfield, personal communication)
- 40) Carapace decorated with bits of algae and bark
- 41) Abundant, hanging onto or suspended amongst algae and bark
- 42) Found within the shell of a live *Solamen columbianum*
- 43) One specimen found in a tube with *Axiiothella rubrocincta*
- 44) Probably *Pentamera populifera* (Simpson). Stomach full of sand grains
and detritus, and in the fiber blanket, small bark particles as well.
- 45) Stomach contents as for *Pentamera populifera*
- 46) One species. Tubes coated with sand or lightly interspersed with small
bark particles at fiber stations.
- 47) Stomach contents include bark particles, algae, amphipods, ostracods,
harpacticoid copepods, *Nebalia pugettensis*, *Diastylis* and an errant
polychaete.
- 48) Stomach contained a few bits of bark
- 49) Stomach contents: 3 amphipods
- 50) Could be eggs of an opisthobranch (Kozloff, 1973)
- 51) Abundant, attached to filamentous algae and to the tubes of *Telepsavus*
costarum, *Mesochaetopterus taylori*, *Phyllochaetopterus prolifica* and
Pseudopotamilla reniformis.

Amphipod Crustaceans from Saanich Inlet, B.C. submitted by Kathleen Conlan, determined by E.L. Bousfield, January 1977.

FAMILY MELITIDAE

1. Melita dentata Kr. (var) - Stns 11014, 11062
2. Melita sp. - Stns 11062, 11093, 11134

FAMILY DEXAMINIDAE

3. Dexamonica n.sp. - Stn 11122 (♂)

FAMILY AMPELISCIDAE

4. Ampelisca agassizi Judd - 11025 (♀♀), 11093 (♀♀)
5. Byblis veleronis Bnd. - 11022 (♀), 11071 (♀), 11103 (♀♀)

FAMILY AORIDAE

6. Aorides columbiae Walker - 11045 (♂♂, ♀♀), 11095 (♀♀), 11135 (♂♂, ♀♀)

FAMILY AMPITHOIDAE

7. Ampithoe lacertosa Bate - 11014 (♀♀)

FAMILY PHOTIDAE (ISAEIDAE OF BND)

8. Photis brevipes Shoem. - 11085 (♀♀), 11095 (♀), 11121 (♀)
9. Protomedeia sp. (nr. grandimana) - 11011 (♂♂, ♀♀), 11015 (♂♂, ♀♀)

FAMILY COROPHIIDAE

10. Corophium crassicorne Bruz. - 11101 (♀), 11105 (♀)
11. Corophium acherusicum Costa - 11043 (♀), 11135 (♀)

FAMILY PONTOGENEIIDAE

12. Pontogeneia rostrata Gurj. - 11034 (♀♀), 11122 (♀) (damaged)

FAMILY OEDICEROTIDAE

13. Monoculodes zernovi Gurj. - 12103 (♀)
14. Synchelidium shoemakeri Mills - 11064 (♀♀), 11094 (♀♀), 12102 (♀)
15. Westwoodilla caecula (Bate) - 11015 (♀♀), 11133 (♀♀, ♂)

FAMILY PHOXOCEPHALIDAE

16. Paraphoxus robustus Bnd - 11132 (♀), 12101 (♀, im)
17. Paraphoxus heterocuspидatus Bnd - 11132 (♂♂, ♀♀)
18. Paraphoxus oculatus Sars - 11034 (♂♂, ♀♀)
19. Trichophoxus uncinatus Bdn. - 11132 (4 ♀♀)
20. Heterophoxus oculatus (Holmes) - 11132 (♀, im), 12115 (♂, ♀♀), 12101 (♂♂, ♀♀)
21. Metaphoxus frequens Bnd. - 12155 (♂♂, ♀♀)

FAMILY SYNOPIIDAE

22. Tiron biocellatus Bnd. - 11122 (im)

FAMILY LYSIANASSIDAE

23. Orchomene sp. - 11062 (♀)
24. Hippomedon sp. - 11091 (im), 11101 (im)

APPENDIX IVA

BENTH 2/6 data reduction: infaunal density

Species are ordered into the following major taxon groups: Protozoa and lower metazoa; Errant polychaeta; Mollusca; Crustacea; Echinoderms; Other metazoa and pisces

TABLE 1 DENSITY SUMMARY

STATION 1 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 3.20 | 1.92 | 1.16 | 32 | 0.58 |
| NEMATODA | 60.00 | 2.80 | 5.17 | 9.54 | 28 | 0.50 |
| DIG CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DCRV ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ET LCNGA | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 20.00 | 0.20 | 1.79 | 4.00 | 8 | 0.14 |
| ELL SANG | 60.00 | 1.80 | 2.49 | 3.44 | 18 | 0.32 |
| EXC VERU | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.11 |
| GLYC_AME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 7.80 | 3.35 | 1.44 | 78 | 1.40 |
| HEMIF BO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HES^IDAE | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.22 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBRINE | 100.00 | 2.40 | 1.14 | 0.54 | 24 | 0.43 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYTS 1 | 100.00 | 17.60 | 2.61 | 0.39 | 176 | 3.16 |
| NEPHYTS 2 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FROC | 80.00 | 1.20 | 1.10 | 1.00 | 12 | 0.22 |
| CNU ELEG | 100.00 | 2.40 | 1.14 | 0.54 | 24 | 0.43 |
| PALE BEL | 20.00 | 0.20 | 0.45 | 1.00 | 0 | 0.04 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLO MI | 100.00 | 10.40 | 4.56 | 2.00 | 104 | 1.87 |
| PHY GRO | 100.00 | 1.60 | 0.89 | 0.50 | 16 | 0.29 |
| PHY MAC | 100.00 | 1.20 | 0.45 | 0.17 | 12 | 0.22 |
| PLAT BIC | 80.00 | 102.60 | 210.10 | 455.40 | 1026 | 18.44 |
| PCLY TUT | 60.00 | 1.60 | 2.51 | 3.94 | 16 | 0.29 |
| PCLYNO 1 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG^IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEN SE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 3.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPHA AR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ANPH^DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM BRV | 20.00 | 2.60 | 1.34 | 3.00 | 6 | 0.11 |
| AXIC KUB | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.25 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP^IDAE | 100.00 | 13.20 | 9.91 | 7.44 | 132 | 2.37 |
| CIR^INAE | 100.00 | 3.60 | 1.82 | 0.92 | 36 | 0.65 |
| HAPLC EL | 80.00 | 2.40 | 2.70 | 3.04 | 24 | 0.43 |
| LACH CIF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAGEL PI | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| MAL^IDAE | 100.00 | 10.40 | 7.09 | 6.84 | 104 | 1.87 |
| MESC TAY | 100.00 | 7.80 | 3.11 | 1.24 | 78 | 1.40 |
| MYNIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEC FOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NETO TEN | 100.00 | 11.00 | 5.48 | 2.11 | 110 | 2.34 |
| OPHEL LI | 80.00 | 2.60 | 2.30 | 2.04 | 26 | 0.47 |
| OPH^IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| QREN FUS | 100.00 | 17.00 | 9.62 | 5.42 | 170 | 3.05 |
| PECT GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIAR | 100.00 | 1.60 | 1.34 | 1.12 | 16 | 0.29 |
| PCLYDRA | 100.00 | 2.60 | 0.71 | 0.25 | 26 | 0.36 |
| FRICNDSP | 100.00 | 0.20 | 2.39 | 0.70 | 2 | 1.47 |
| PS^PCT R | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.18 |
| PS^SAB L | 100.00 | 2.60 | 1.55 | 1.46 | 26 | 0.47 |
| SAB^IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SPIO FIL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| STREH BA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE CCS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERE^IDAE | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.07 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 80.00 | 1.00 | 0.71 | 0.30 | 10 | 0.18 |
| CENOPOTA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CFISTHGB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 1 continued

STATION 1 APR-MAY 25-7 1975 AND JAN 22, 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ. M. | PCT OF TOTAL DENSITY/SQ. M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|--------------------|--------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SEM | 100.00 | 17.00 | 5.29 | 1.05 | 170 | 3.06 |
| BANK SET | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| BIV 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| BIV 2 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 40.00 | 0.60 | 0.29 | 1.33 | 6 | 0.11 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 80.00 | 5.00 | 4.06 | 3.30 | 50 | 0.90 |
| MACOMA | 20.00 | 0.40 | 0.29 | 2.00 | 4 | 0.07 |
| MCOI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 100.00 | 84.00 | 24.67 | 7.24 | 840 | 15.10 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCDD CDP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEF LCR | 80.00 | 4.00 | 2.57 | 1.91 | 46 | 0.83 |
| SCLA CCL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| TELL INA | 100.00 | 13.00 | 3.94 | 1.19 | 130 | 2.34 |
| TRYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| CSTRACOD | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.25 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCPE:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.18 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 2 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 100.00 | 8.00 | 4.83 | 2.71 | 86 | 1.55 |
| LEPT SAV | 100.00 | 7.20 | 5.50 | 4.19 | 72 | 1.29 |
| LIMN LIG | 20.00 | 1.00 | 6.71 | 15.00 | 10 | 0.54 |
| PARA ELE | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.18 |
| CAPRELLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| AMP:IDAE | 20.00 | 0.40 | 0.29 | 2.00 | 4 | 0.07 |
| AMP:ISCA | 100.00 | 21.40 | 5.54 | 1.51 | 214 | 4.21 |
| AMP:ITOE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCRUPH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAM:IDEA | 40.00 | 7.00 | 13.53 | 26.14 | 70 | 1.26 |
| MELI DEN | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.07 |
| MELI TA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CEP:IDAE | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.22 |
| PHOXIDAE | 80.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| PHOXIDAE | 80.00 | 2.00 | 2.35 | 2.75 | 20 | 0.36 |
| PROT MED | 100.00 | 50.00 | 37.17 | 27.63 | 500 | 8.99 |
| SYN SHCE | 80.00 | 3.00 | 2.65 | 2.33 | 30 | 0.54 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ELALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG DR | 20.00 | 0.40 | 0.29 | 2.00 | 4 | 0.07 |
| MLNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 40.00 | 2.00 | 3.54 | 7.75 | 20 | 0.36 |
| PINN EAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 100.00 | 10.80 | 5.63 | 2.94 | 108 | 1.94 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 20.00 | 1.00 | 2.24 | 5.00 | 10 | 0.18 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| AMPHI UR | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHYCNC PE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECP:INDIA | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| DEMRDCH | 40.00 | 1.20 | 1.79 | 2.67 | 12 | 0.22 |
| LEPTC CL | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| SIPURCUL | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.25 |
| PHOKNID | 100.00 | 6.20 | 1.79 | 0.52 | 62 | 1.11 |
| AMPC HLX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCNI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:GEL | 60.00 | 1.40 | 1.27 | 2.00 | 14 | 0.25 |
| MASS:HAR | 60.00 | 41.00 | 54.68 | 72.91 | 410 | 7.37 |

TCTAL

5564

TABLE 2 DENSITY SUMMARY

STATION 2 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FERAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FERAM 2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| ACCYCLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 80.00 | 2.00 | 1.58 | 1.25 | 20 | 0.33 |
| NEMATODA | 100.00 | 5.40 | 1.95 | 0.70 | 54 | 0.88 |
| DIG CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DRY ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ET LCNGA | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.16 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL SANG | 100.00 | 3.00 | 2.00 | 1.33 | 30 | 0.49 |
| EXC VERU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| GLYC AMS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 3.80 | 1.20 | 0.45 | 38 | 0.62 |
| HEMIF BO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HES IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| LEP LUNG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBFINE | 80.00 | 1.60 | 1.34 | 1.12 | 16 | 0.26 |
| MICRO NA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| NEPHTYSI | 100.00 | 21.00 | 2.55 | 0.31 | 210 | 3.43 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEW BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PRCC | 80.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| ONU CLBG | 100.00 | 4.40 | 2.30 | 1.20 | 44 | 0.72 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PELIC MI | 100.00 | 10.40 | 3.36 | 1.09 | 104 | 1.70 |
| PHY GRU | 100.00 | 2.20 | 1.30 | 0.77 | 22 | 0.36 |
| PHY MAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PLAT GIC | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.16 |
| PCLY TUT | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PCLYND 1 | 40.00 | 0.60 | 0.69 | 1.33 | 6 | 0.10 |
| PCLYND 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIC IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPH IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| ARM BREV | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| AXIO RUD | 100.00 | 6.20 | 1.30 | 0.27 | 62 | 1.01 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 100.00 | 15.00 | 6.12 | 2.50 | 150 | 2.45 |
| CIN IDAE | 100.00 | 9.00 | 4.66 | 1.83 | 90 | 1.47 |
| MARIC BL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| LAGN CIR | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.13 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL IDAE | 100.00 | 7.00 | 1.00 | 0.14 | 70 | 1.14 |
| MESO TAY | 100.00 | 29.40 | 8.62 | 2.53 | 294 | 4.80 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEG RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NETU TEN | 100.00 | 16.80 | 9.73 | 5.84 | 168 | 2.74 |
| OPHEL LI | 100.00 | 5.20 | 3.35 | 2.15 | 52 | 0.85 |
| OPH IDAE | 60.00 | 1.80 | 2.49 | 3.44 | 18 | 0.29 |
| CAEN FUS | 80.00 | 4.20 | 2.77 | 1.83 | 42 | 0.69 |
| PECT GRO | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.20 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISA CR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PCLYCIRR | 100.00 | 3.60 | 2.07 | 1.19 | 36 | 0.59 |
| PCLYDORA | 100.00 | 7.40 | 3.29 | 1.96 | 74 | 1.21 |
| PRICKOSP | 100.00 | 4.40 | 2.88 | 1.89 | 44 | 0.72 |
| PS PCT W | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAB L | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.13 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB EA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE CO | 100.00 | 2.00 | 1.00 | 0.50 | 20 | 0.33 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.16 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HETR TUB | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.13 |
| NASS MEN | 100.00 | 2.00 | 1.00 | 0.50 | 20 | 0.33 |
| CENCRDIA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBCNIL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 2 continued

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| AXIN SER | 100.00 | 3.40 | 3.30 | 3.32 | 34 | 0.59 |
| BANK SCT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| MACOMA | 80.00 | 2.00 | 1.22 | 0.75 | 20 | 0.33 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 100.00 | 216.80 | 15.59 | 1.18 | 2168 | 35.37 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCCQ CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LOR | 100.00 | 5.40 | 2.51 | 1.17 | 54 | 0.89 |
| SGLA COL | 100.00 | 1.20 | 0.45 | 0.17 | 12 | 0.20 |
| TELLINA | 80.00 | 2.40 | 1.52 | 0.96 | 24 | 0.39 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GSTRACCO | 80.00 | 1.80 | 1.64 | 1.50 | 18 | 0.29 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 40.00 | 0.60 | 0.49 | 1.33 | 6 | 0.10 |
| CLM 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OIASTYLI | 80.00 | 3.60 | 2.97 | 2.44 | 36 | 0.59 |
| LEPT SAV | 100.00 | 6.40 | 3.51 | 1.92 | 64 | 1.04 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PARA ELE | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.07 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| AMP:ISCA | 100.00 | 12.20 | 7.37 | 1.99 | 122 | 2.22 |
| AMP:THOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR COLU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CCRDPH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 80.00 | 1.80 | 1.48 | 1.22 | 18 | 0.29 |
| QED:IDAE | 80.00 | 1.60 | 1.14 | 0.81 | 16 | 0.26 |
| PHO:IS H | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PHO:DAE | 100.00 | 3.20 | 1.30 | 0.53 | 32 | 0.52 |
| PRG:CMED | 100.00 | 80.40 | 15.40 | 2.95 | 804 | 13.12 |
| SYN SHOEL | 60.00 | 0.60 | 0.84 | 0.83 | 6 | 0.13 |
| CAL:GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRA:DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG GR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| KUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN PAD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN JCC | 100.00 | 28.20 | 3.35 | 0.40 | 282 | 4.60 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IB | 80.00 | 0.20 | 0.45 | 0.25 | 8 | 0.13 |
| GPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNC FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECF:ACID | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| DENDROCH | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| LEPTC CL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| STRUNCUL | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.16 |
| PHG:CID | 100.00 | 3.60 | 1.14 | 0.36 | 36 | 0.59 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANCP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHO:IS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCR:INT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 80.00 | 50.60 | 19.65 | 4.12 | 506 | 8.25 |

TOTAL

6130

TABLE 3 DENSITY SUMMARY

STATION 3 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMATEA | 100.00 | 3.80 | 1.04 | 0.71 | 38 | 1.32 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIO CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DCRY ANN | 100.00 | 58.20 | 38.36 | 25.29 | 582 | 20.29 |
| ET LINGA | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.42 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.42 |
| ELL SARG | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.14 |
| EXO VERU | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| GLYC ARM | 20.00 | 0.40 | 0.82 | 2.00 | 4 | 0.14 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 5.20 | 5.25 | 6.58 | 52 | 1.81 |
| HEMIP BD | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.42 |
| HES IDAE | 100.00 | 19.60 | 13.28 | 8.99 | 196 | 6.83 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMFINE | 80.00 | 5.20 | 4.82 | 4.46 | 52 | 1.81 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYSI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FRCC | 60.00 | 2.20 | 3.35 | 5.09 | 22 | 0.77 |
| ONU ELEG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PHCLC MI | 100.00 | 5.80 | 1.64 | 0.47 | 58 | 2.02 |
| PHY GRC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PHY MAC | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.14 |
| PLAT BIC | 100.00 | 31.00 | 12.21 | 4.31 | 310 | 10.81 |
| PCLY TUT | 80.00 | 1.00 | 2.24 | 1.67 | 30 | 1.05 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM BRV | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIO RUD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 60.00 | 2.20 | 2.17 | 2.14 | 22 | 0.77 |
| CIN INAE | 80.00 | 4.40 | 4.29 | 4.39 | 44 | 1.53 |
| HAPLC EL | 60.00 | 5.80 | 6.18 | 6.59 | 58 | 2.02 |
| LAON CIN | 100.00 | 5.00 | 4.06 | 3.30 | 50 | 1.74 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL IDAE | 60.00 | 0.80 | 0.84 | 0.58 | 8 | 0.28 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NETO TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPHEL LJ | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OREN FUS | 40.00 | 3.80 | 7.43 | 14.53 | 38 | 1.32 |
| PECT GRA | 80.00 | 3.00 | 2.12 | 1.50 | 30 | 1.05 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| POLYCIRR | 100.00 | 7.20 | 6.14 | 5.24 | 72 | 2.51 |
| POLYCIRA | 60.00 | 1.60 | 2.87 | 2.69 | 16 | 0.56 |
| PRIONOSP | 100.00 | 21.80 | 19.04 | 16.64 | 218 | 7.60 |
| PSIPCT R | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PSISAB L | 100.00 | 4.60 | 2.97 | 1.91 | 46 | 1.60 |
| SAB IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SEIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 40.00 | 1.60 | 2.81 | 4.25 | 16 | 0.56 |
| TELE CGS | 80.00 | 1.20 | 1.10 | 1.00 | 12 | 0.42 |
| TERE STH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CENOFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CFISTHCB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBONIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 3 continued

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 60.00 | 3.00 | 3.08 | 3.17 | 30 | 1.05 |
| MACOMA | 60.00 | 1.40 | 1.67 | 2.00 | 14 | 0.49 |
| MCCI REC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCOO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLA CGL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GSTRACOD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| COPE:CAL | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.21 |
| COPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 20.00 | 0.60 | 1.24 | 3.00 | 6 | 0.21 |
| NEB PUG | 100.00 | 5.20 | 1.10 | 0.23 | 52 | 1.81 |
| CUM 1 | 20.00 | 0.20 | 1.79 | 4.00 | 8 | 0.28 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| LEPT SAV | 100.00 | 12.20 | 8.01 | 5.20 | 122 | 4.25 |
| LIMN LIG | 80.00 | 14.40 | 22.24 | 34.47 | 144 | 5.02 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ITCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR CGLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCRCFH | 40.00 | 0.60 | 0.69 | 1.33 | 6 | 0.21 |
| GAM:IDEA | 80.00 | 2.00 | 2.00 | 2.00 | 20 | 0.70 |
| MELI DEN | 40.00 | 1.40 | 2.61 | 4.86 | 14 | 0.49 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DED:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PECIS B | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOC:CAE | 80.00 | 33.80 | 39.68 | 47.28 | 338 | 11.79 |
| PROTCMED | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYA SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BNA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG DR | 80.00 | 1.20 | 1.10 | 1.30 | 12 | 0.42 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.14 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 60.00 | 1.60 | 1.62 | 2.06 | 16 | 0.56 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| APPHI UR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| CFH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNU FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECMIGID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LEPTE CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOCNID | 80.00 | 2.20 | 1.64 | 1.23 | 22 | 0.77 |
| AMP:MLX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHGLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PGRI NCT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:PAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

2868

TABLE 4 DENSITY SUMMARY

STATION 4 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 60.00 | 1.80 | 2.49 | 3.44 | 18 | 0.16 |
| NEMERTEA | 100.00 | 6.40 | 4.39 | 3.02 | 64 | 0.56 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIU GRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DCRV ANN | 100.00 | 92.60 | 62.47 | 42.14 | 926 | 8.14 |
| ET LINGA | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.04 |
| ET PAC1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.09 |
| ELL SANG | 80.00 | 3.40 | 2.79 | 2.29 | 34 | 0.30 |
| ENG VERU | 100.00 | 5.40 | 4.16 | 3.20 | 54 | 0.47 |
| GLYC ANE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 2.40 | 2.61 | 2.83 | 24 | 0.21 |
| HEMIP BO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| HES*IDAE | 100.00 | 41.60 | 17.78 | 7.60 | 416 | 3.66 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBRINE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MICRE NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYS1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| NER PROE | 80.00 | 1.80 | 1.10 | 0.67 | 18 | 0.16 |
| ONU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE BEL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHCLC MI | 100.00 | 2.80 | 1.64 | 0.96 | 28 | 0.25 |
| PHY GRO | 60.00 | 1.20 | 1.64 | 2.25 | 12 | 0.11 |
| PHY MAC | 20.00 | 0.80 | 1.79 | 4.00 | 8 | 0.07 |
| PLAT BIC | 100.00 | 43.00 | 25.03 | 14.57 | 430 | 3.78 |
| PCLY TUT | 20.00 | 3.20 | 0.45 | 1.00 | 2 | 0.02 |
| PCLYND 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYND 2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SMEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMF BREY | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| AXID RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP CAP | 80.00 | 15.40 | 20.66 | 27.71 | 154 | 1.35 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HAPLC EL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LACN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MALZIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MESD TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEG ROB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| NEID TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OBEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PECT GHA | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.09 |
| PHYL PAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIRR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYDORA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| PRICNOSP | 100.00 | 20.20 | 9.71 | 4.66 | 202 | 1.78 |
| PS*PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS*SUB L | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.04 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SFIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SMEN EA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL FLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE COS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CENCFCTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPISMGB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 4 continued

STATION 4 APR-MAY, 25-7, 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 80.00 | 18.20 | 17.73 | 17.26 | 182 | 1.60 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAND VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINGCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MADUMA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS YUMI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCOE LCP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSIP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SELA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCPE:CAL | 40.00 | 0.80 | 1.10 | 1.50 | 8 | 0.07 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 100.00 | 246.20 | 24.22 | 29.01 | 2462 | 21.65 |
| CLM 1 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASYLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| LEPT SAV | 100.00 | 299.20 | 97.40 | 31.71 | 2992 | 26.31 |
| LIHM LIG | 100.00 | 270.60 | 229.13 | 191.02 | 2706 | 23.73 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ITOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ZCR COLU | 100.00 | 25.60 | 12.20 | 5.81 | 256 | 2.25 |
| CCRCPH | 80.00 | 1.60 | 1.14 | 0.81 | 16 | 0.14 |
| GAM:IDEA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| MELI DEN | 20.00 | 0.40 | 0.59 | 2.00 | 4 | 0.04 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DEO:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EMUTIS B | 40.00 | 1.00 | 1.41 | 2.10 | 10 | 0.09 |
| PHOX:DAE | 20.00 | 0.60 | 1.79 | 4.00 | 8 | 0.07 |
| PRGTCMED | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SHDE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.12 |
| CANC BHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEWIG CR | 100.00 | 2.40 | 2.19 | 2.00 | 24 | 0.21 |
| MUNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.09 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 100.00 | 21.20 | 8.26 | 3.13 | 212 | 1.92 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PYCNC HE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCH | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIBUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHORCID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMG MCK | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANDP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHGLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCRI NUT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

11374

TABLE 5 DENSITY SUMMARY

STATION 5 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SU.M. | PCT OF TOTAL DENSITY/SU.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| NEMERTEA | 100.00 | 2.80 | 2.55 | 3.11 | 28 | 1.27 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CIO CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OCRV ANN | 100.00 | 30.60 | 10.69 | 3.74 | 306 | 13.85 |
| EY LCNGA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.27 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.18 |
| ELL SANG | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.18 |
| EXC VERU | 80.00 | 1.80 | 1.64 | 1.50 | 18 | 0.81 |
| GLYC AME | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCENA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 4.10 | 1.67 | 0.64 | 44 | 1.99 |
| MEMIP BO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| PES IDAE | 100.00 | 13.60 | 3.26 | 0.83 | 136 | 6.15 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LCMBIAE | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.36 |
| NICKC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| NER FRCC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.18 |
| ONU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE SEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHLLC MI | 100.00 | 1.40 | 1.52 | 0.68 | 34 | 1.54 |
| PHY GRC | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.27 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 3.60 | 1.52 | 0.64 | 36 | 1.63 |
| PCLY TUT | 60.00 | 1.00 | 1.22 | 1.30 | 10 | 0.45 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEN DE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AKN GREV | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.18 |
| AXID RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| CIR INAE | 80.00 | 1.80 | 1.30 | 0.94 | 18 | 0.81 |
| HAPLC EL | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.18 |
| LAUN CIR | 100.00 | 6.40 | 5.13 | 4.11 | 64 | 2.90 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYRIC UC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEO ROB | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.18 |
| NCTC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| PECT GRA | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.36 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIRR | 100.00 | 2.80 | 2.17 | 1.88 | 28 | 1.27 |
| PCLYDORA | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.36 |
| PRIONOSP | 100.00 | 47.60 | 14.10 | 4.18 | 476 | 21.54 |
| PS FCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAS L | 100.00 | 1.80 | 0.84 | 0.39 | 18 | 0.81 |
| SAU IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB EA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 40.00 | 0.20 | 1.10 | 1.50 | 8 | 0.36 |
| TELE COS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CENOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYPLAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |

Table 5 continued

STATION 5 APR-MAY 25-7 1975 AND JAN 22 1975 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SEH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.27 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MACOMA | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.36 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 40.00 | 1.00 | 1.41 | 2.00 | 10 | 0.45 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCCG CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LON | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLA CGL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GSTHACCO | 20.00 | 0.60 | 1.24 | 3.00 | 6 | 0.27 |
| COPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| COPE:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 100.00 | 18.20 | 10.89 | 6.52 | 182 | 8.24 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.18 |
| LEPT SAV | 100.00 | 8.20 | 9.86 | 11.05 | 88 | 3.98 |
| LINA LIG | 100.00 | 20.60 | 29.09 | 41.08 | 206 | 9.32 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ITCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ADK COLU | 80.00 | 1.80 | 1.30 | 0.94 | 18 | 0.81 |
| CCROFH | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.45 |
| GAM:IDEA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.27 |
| MELI DCN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DEB:IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| FUCTIS R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOX:DAE | 100.00 | 28.00 | 20.20 | 14.71 | 280 | 12.67 |
| PROT:CEB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SMCE | 0.0 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| CAL GIG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| CANC LHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG CR | 100.00 | 3.60 | 1.55 | 1.06 | 36 | 1.63 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAS ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAS BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 80.00 | 2.40 | 2.27 | 1.79 | 24 | 1.09 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OGC | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.27 |
| PINN TUB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLEA AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| APPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CFH ACUL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.18 |
| ASTERID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYGNO FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINCID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDRUCH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LEFTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHCRONID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARMO HELX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.09 |
| FHOLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCHI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TCTAL

2210

TABLE 6 DENSITY SUMMARY

STATION 6 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACJTYLEA | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.19 |
| NEMERTEA | 60.00 | 2.20 | 2.95 | 3.95 | 22 | 0.41 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIO GRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DICRY ANN | 100.00 | 79.80 | 27.01 | 9.14 | 798 | 14.94 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 20.00 | 0.40 | 0.29 | 2.00 | 4 | 0.07 |
| ELL SANG | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| EXG VERU | 100.00 | 5.00 | 4.30 | 3.70 | 50 | 0.94 |
| GLYC AME | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| GLYC CAP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCIDAE | 100.00 | 5.20 | 1.30 | 0.33 | 52 | 0.97 |
| HEMIP BO | 60.00 | 1.30 | 2.17 | 2.61 | 18 | 0.34 |
| HEMIDAE | 100.00 | 65.20 | 35.23 | 19.04 | 652 | 12.21 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LLYBFINA | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.15 |
| NICR NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PROG | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.26 |
| GNU ELEG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOLG MI | 100.00 | 6.00 | 1.00 | 1.58 | 60 | 1.12 |
| PHY GRD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 44.00 | 31.98 | 23.24 | 440 | 8.24 |
| PCLY TUT | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SIGIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STICH BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.11 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPH AR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM BRUV | 60.00 | 0.20 | 0.24 | 0.86 | 8 | 0.15 |
| AXIO RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP CAP | 40.00 | 5.20 | 11.08 | 23.60 | 52 | 0.97 |
| CAPIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CIRIDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| HAPLO EL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LAUN CIR | 60.00 | 3.60 | 4.24 | 6.00 | 30 | 0.56 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MALIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYXIC UC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NED RUD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NCTO TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CHEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PECT GKA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHYL PRD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIRR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.11 |
| PCLYDRA | 100.00 | 4.60 | 4.17 | 5.15 | 46 | 0.90 |
| PRICNGSP | 100.00 | 15.20 | 6.80 | 3.04 | 152 | 2.85 |
| PSIPCT R | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PSISAU L | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.22 |
| SABIDAE | 20.00 | 0.40 | 0.89 | 2.50 | 4 | 0.07 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB SA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| TELE CCS | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 20.00 | 1.20 | 2.08 | 6.00 | 12 | 0.22 |
| LENOPUTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPITHOU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURDENIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYPLAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |

Table 6 continued

STATION 6 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 40.00 | 1.00 | 1.41 | 2.00 | 10 | 0.19 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.07 |
| MADOMA | 60.00 | 1.20 | 1.64 | 2.25 | 12 | 0.22 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MLSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.15 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCDC CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LOR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OSTRACOD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| COPE CAL | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.11 |
| COPE MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 100.00 | 77.80 | 78.38 | 78.96 | 778 | 14.57 |
| CUM 1 | 80.00 | 2.00 | 1.87 | 1.75 | 20 | 0.37 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 80.00 | 1.40 | 0.89 | 0.57 | 14 | 0.25 |
| LEPT SAV | 100.00 | 100.80 | 88.25 | 77.26 | 1008 | 18.88 |
| LEMN LIG | 80.00 | 51.20 | 62.91 | 77.30 | 512 | 9.59 |
| PAKA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPPELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP ISCA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| AMP THOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR CCLU | 60.00 | 2.40 | 2.68 | 1.46 | 24 | 0.45 |
| CCORPH | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| GAM IDAE | 80.00 | 1.20 | 1.10 | 1.00 | 12 | 0.22 |
| MELI DEN | 100.00 | 7.20 | 8.53 | 10.10 | 72 | 1.33 |
| MELITA | 20.00 | 1.40 | 3.13 | 7.00 | 14 | 0.26 |
| GEC IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHOLIS B | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| PROX IDAE | 100.00 | 18.60 | 17.62 | 16.88 | 186 | 3.48 |
| PROTOME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SHO2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| CAL GIG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC JNA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ETALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG OR | 100.00 | 4.20 | 2.28 | 1.24 | 42 | 0.79 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GREG GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG EER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN FAD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPHI UR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.07 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHYCNC FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINGID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCM | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.11 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIPUACUL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHORCNID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMMO HELX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANUP PUR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHELIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PERI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS MAR | 60.00 | 8.20 | 16.60 | 33.93 | 82 | 1.54 |

TOTAL

5340

TABLE 7 DENSITY SUMMARY

STATION 7 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.40 | 0.89 | 0.33 | 24 | 0.54 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIO GRN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| DCRY ANN | 100.00 | 10.00 | 13.47 | 11.34 | 160 | 3.59 |
| ET LCNCA | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.13 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| ELL SANG | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| EXO VERU | 60.00 | 1.80 | 1.79 | 1.78 | 18 | 0.40 |
| GLYC AME | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| GLYC CAP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 4.60 | 2.20 | 1.15 | 46 | 1.03 |
| HEMIP BU | 80.00 | 2.80 | 3.27 | 3.82 | 28 | 0.63 |
| HES* IDAE | 100.00 | 22.20 | 16.62 | 12.84 | 222 | 4.98 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LLMBRINE | 100.00 | 28.40 | 23.68 | 20.08 | 284 | 6.38 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSI | 40.00 | 0.80 | 1.10 | 1.50 | 8 | 0.18 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FROG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ONU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| PHULO MJ | 80.00 | 5.20 | 4.15 | 2.53 | 52 | 1.53 |
| PHY GRO | 100.00 | 2.60 | 1.22 | 0.88 | 26 | 0.58 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 6.80 | 5.84 | 4.51 | 68 | 1.53 |
| PCLY TUT | 80.00 | 2.80 | 2.28 | 1.26 | 28 | 0.63 |
| PCLYNU 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNU 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PRCT GRA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| SIG* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEN DE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLL IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SYLLIS | 100.00 | 7.20 | 5.50 | 4.19 | 72 | 1.62 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM BREV | 40.00 | 0.40 | 0.89 | 1.33 | 4 | 0.13 |
| AXIO RUB | 100.00 | 2.60 | 1.67 | 1.08 | 26 | 0.58 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP* IDAE | 100.00 | 6.60 | 5.03 | 3.33 | 66 | 1.48 |
| CIR* INAE | 80.00 | 5.40 | 3.58 | 2.37 | 54 | 1.21 |
| HAPLC EL | 100.00 | 5.00 | 3.16 | 2.00 | 50 | 1.12 |
| LAON CIR | 100.00 | 16.90 | 6.53 | 2.54 | 169 | 3.77 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL* IDAE | 100.00 | 11.60 | 5.59 | 2.70 | 116 | 2.60 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYRIC OC | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.13 |
| NEO ROS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NCTO TEN | 60.00 | 1.60 | 1.67 | 1.75 | 16 | 0.36 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PECT GRA | 60.00 | 1.40 | 2.67 | 3.07 | 14 | 0.31 |
| PHYL PRO | 20.00 | 1.20 | 2.68 | 6.00 | 12 | 0.27 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIRR | 100.00 | 4.40 | 3.97 | 3.59 | 44 | 0.99 |
| PCLYCGRA | 100.00 | 4.40 | 3.44 | 2.88 | 44 | 0.99 |
| PHIONOSP | 100.00 | 140.40 | 52.85 | 18.93 | 1404 | 32.87 |
| PS* PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSYSAB L | 80.00 | 1.40 | 1.34 | 1.12 | 16 | 0.36 |
| SAN* IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SEIO FIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| STREB EA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| TELE COS | 40.00 | 1.20 | 1.10 | 1.00 | 12 | 0.27 |
| TERE STR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| TER* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 40.00 | 1.60 | 1.41 | 2.00 | 16 | 0.22 |
| CENOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OFSTHCB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBCNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 7 continued

STATION 7 APR-MAY 25-7, 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CLINCCAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LULI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 100.00 | 8.40 | 2.30 | 0.63 | 84 | 1.89 |
| MAGOMA | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.27 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 80.00 | 4.00 | 3.67 | 3.37 | 40 | 0.90 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELDO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLA CUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OSTRACOD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CCPE:CAL | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| CCPE:MAR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| BALANUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| NEB FUG | 60.00 | 3.40 | 3.29 | 3.18 | 34 | 0.76 |
| CUM 1 | 20.00 | 2.80 | 6.26 | 14.00 | 28 | 0.63 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| DIASTYLI | 60.00 | 2.00 | 2.55 | 3.25 | 20 | 0.45 |
| LEPT SAV | 100.00 | 6.00 | 2.00 | 0.67 | 60 | 1.35 |
| LIMN-LIG | 40.00 | 2.60 | 5.27 | 10.09 | 26 | 0.58 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP*IDAL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| AMP:ISCA | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.27 |
| AMP:THGE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACH COLU | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| CCRCPH | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| GAM*IDEA | 80.00 | 1.80 | 4.97 | 5.15 | 48 | 1.08 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 40.00 | 0.20 | 1.30 | 2.12 | 8 | 0.18 |
| DED*IDAL | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.22 |
| EMO:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FHOX*IDAE | 100.00 | 72.60 | 22.48 | 0.96 | 726 | 16.30 |
| PRACTM:CD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BRA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| CANC GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| EVALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG CR | 80.00 | 2.00 | 1.58 | 1.25 | 20 | 0.45 |
| HUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CREG GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PAG ALLEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.22 |
| PINN EAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN CCC | 60.00 | 1.60 | 2.07 | 2.69 | 16 | 0.36 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SFIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DPH ACUL | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNC FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCH | 60.00 | 0.80 | 0.54 | 0.88 | 8 | 0.18 |
| LEPTC CL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| SIPUNCUL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PHORUNID | 40.00 | 1.00 | 1.71 | 3.00 | 10 | 0.22 |
| AMG HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHULIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PGR: NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

4454

TABLE 8 DENSITY SUMMARY

STATION 8 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|--------------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.60 | 1.14 | 0.50 | 26 | 0.84 |
| NEPATCDA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DERV ANN | 100.00 | 41.40 | 19.57 | 9.25 | 414 | 13.33 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL SANG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| EXC VERU | 80.00 | 2.60 | 3.13 | 3.77 | 26 | 0.84 |
| GLYC AME | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.13 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 5.40 | 1.14 | 0.24 | 54 | 1.75 |
| HEKIF BO | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.13 |
| HES IDAE | 100.00 | 28.00 | 6.20 | 1.38 | 280 | 9.05 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LLMDAINE | 100.00 | 8.20 | 3.63 | 1.61 | 82 | 2.65 |
| MICRE NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PROO | 100.00 | 2.80 | 1.10 | 0.43 | 28 | 0.90 |
| GNU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHGLC MI | 80.00 | 2.20 | 1.92 | 1.68 | 22 | 0.71 |
| PHY GRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 14.60 | 7.77 | 4.13 | 146 | 4.72 |
| PCLY TUT | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.19 |
| PCLYND 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYND 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIMEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM EREV | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.13 |
| AXID RUB | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.13 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.32 |
| CIR IDAE | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.32 |
| FAPC EL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.13 |
| LACH CIR | 100.00 | 3.00 | 1.22 | 0.50 | 30 | 0.97 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL IDAE | 26.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEO ROH | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| NETC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OFHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| UREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PECT GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PULYCINR | 100.00 | 2.00 | 1.41 | 1.00 | 20 | 0.65 |
| PCLYCOHA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.19 |
| PHIGNOSP | 100.00 | 24.20 | 5.45 | 1.23 | 242 | 7.62 |
| PSI PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSI SAB L | 80.00 | 2.80 | 2.39 | 2.04 | 28 | 0.90 |
| SAB IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SFIU FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.32 |
| TELE COS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| TIRE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTEOCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CENUPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBONIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYFLAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |

Table 8 continued

STATION B APR-MAY 25-7, 1975 AND JAN 22, 1976. 5 HAULS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT. OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|--------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 60.00 | 1.40 | 1.27 | 2.00 | 14 | 0.45 |
| MACCMA | 80.00 | 2.60 | 1.22 | 1.27 | 26 | 0.84 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.32 |
| NCC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCOO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LGR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| | | | | | | |
| CSTRACGD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| COPE CAL | 40.00 | 0.20 | 1.30 | 2.12 | 8 | 0.26 |
| COPE HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 100.00 | 19.20 | 15.54 | 13.24 | 192 | 6.21 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 40.00 | 0.20 | 1.10 | 1.50 | 8 | 0.26 |
| LEPT SAV | 100.00 | 50.00 | 18.88 | 7.13 | 500 | 16.16 |
| | | | | | | |
| LYMN LIG | 60.00 | 1.80 | 2.55 | 4.31 | 18 | 0.58 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| APP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARR ISCA | 20.00 | 0.40 | 0.29 | 2.00 | 4 | 0.13 |
| AMPITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACK COLU | 100.00 | 4.40 | 7.60 | 13.14 | 44 | 1.42 |
| CCRPH | 80.00 | 2.20 | 1.46 | 1.00 | 22 | 0.71 |
| GAM IDAE | 40.00 | 3.20 | 6.10 | 11.62 | 32 | 1.03 |
| MELI DEN | 40.00 | 0.20 | 1.10 | 1.50 | 8 | 0.26 |
| MELITA | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.32 |
| DED IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHI ISL | 60.00 | 1.00 | 1.50 | 1.50 | 10 | 0.32 |
| PHOXIDAE | 100.00 | 65.00 | 23.23 | 8.30 | 650 | 21.61 |
| PROTOME | 20.00 | 1.20 | 2.68 | 6.00 | 12 | 0.39 |
| SYN SHO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| | | | | | | |
| EVALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG CR | 60.00 | 1.20 | 1.64 | 2.25 | 12 | 0.39 |
| MUNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 80.00 | 2.40 | 2.07 | 1.79 | 24 | 0.78 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PFI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| | | | | | | |
| ANPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNO FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENORCCM | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.39 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| | | | | | | |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHORCNID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMMO MEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCKI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASSIGEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

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TABLE 9 DENSITY SUMMARY

STATION 9 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.00 | 1.22 | 0.75 | 20 | 0.45 |
| NEMATODA | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.14 |
| DIO CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DCRV ANN | 60.00 | 2.40 | 4.28 | 7.62 | 24 | 0.54 |
| ET LCNGA | 60.00 | 0.20 | 0.24 | 0.88 | 8 | 0.18 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL SANG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| EXU VERU | 60.00 | 0.80 | 0.84 | 0.89 | 8 | 0.18 |
| GLYC ABE | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.14 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| GLYCINCE | 100.00 | 8.30 | 5.81 | 4.11 | 82 | 1.85 |
| HEMIP BO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| HES*IDAE | 100.00 | 2.80 | 0.64 | 0.25 | 28 | 0.63 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBIFNE | 100.00 | 17.20 | 11.66 | 7.90 | 178 | 4.02 |
| MICAC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYSI | 100.00 | 7.00 | 1.22 | 0.21 | 70 | 1.58 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FROC | 100.00 | 4.60 | 2.68 | 1.80 | 46 | 1.04 |
| NOU ELEG | 80.00 | 3.80 | 3.25 | 2.95 | 38 | 0.86 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| RHOLO LI | 100.00 | 10.80 | 9.31 | 8.03 | 108 | 2.44 |
| RHY GRC | 60.00 | 0.80 | 0.54 | 0.88 | 8 | 0.18 |
| PHY MAC | 40.00 | 0.80 | 1.10 | 1.50 | 6 | 0.18 |
| PLAT BIC | 100.00 | 5.60 | 4.27 | 4.14 | 58 | 1.31 |
| PCLY TUT | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PCLYNG 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PCLYNG 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FRACT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SITHEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPHA AR | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.23 |
| ANPH*DAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ARM ERLV | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIC NOB | 40.00 | 1.40 | 1.55 | 2.71 | 14 | 0.32 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP*IDAE | 80.00 | 13.00 | 16.12 | 20.00 | 130 | 2.94 |
| CIR*INAE | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.18 |
| HAPLC EL | 100.00 | 2.20 | 2.17 | 2.14 | 22 | 0.50 |
| LACN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL*IDAE | 80.00 | 10.00 | 8.00 | 6.40 | 100 | 2.26 |
| MESU TAY | 60.00 | 2.40 | 3.26 | 4.71 | 24 | 0.54 |
| MYHIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEC ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NLID TEN | 80.00 | 5.60 | 6.94 | 7.73 | 56 | 1.27 |
| OPHEL LI | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.09 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 100.00 | 16.60 | 13.69 | 11.28 | 166 | 3.75 |
| PECT GRA | 80.00 | 2.00 | 2.35 | 2.75 | 20 | 0.45 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| POLYCIRR | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.14 |
| PCLYCCRA | 80.00 | 4.00 | 3.29 | 2.87 | 40 | 0.90 |
| PRIDNCSP | 100.00 | 13.40 | 8.08 | 4.87 | 134 | 3.03 |
| PS*POT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS*SID L | 80.00 | 1.60 | 1.52 | 1.44 | 16 | 0.36 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIC FIL | 40.00 | 0.60 | 0.69 | 1.33 | 6 | 0.14 |
| STREB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE CCS | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.32 |
| TEHE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER*IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 40.00 | 0.60 | 1.30 | 2.12 | 8 | 0.18 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| WITH TUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 40.00 | 1.20 | 1.79 | 2.67 | 12 | 0.27 |
| CENUPOTA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| GFISTHCU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| YCRUONIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 9 continued

STATION 9 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA_CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN_SER | 100.00 | 35.60 | 12.44 | 4.35 | 356 | 8.05 |
| BARK_SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD_VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| LUCI_ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| LUCI_TEN | 100.00 | 15.20 | 6.54 | 2.98 | 162 | 3.66 |
| MACOMA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MCCI_REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC_LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA_AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS_TUMI | 80.00 | 66.00 | 38.56 | 22.99 | 660 | 14.92 |
| NLC_TEN | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| ECID_CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FSCP_LCR | 100.00 | 0.60 | 7.44 | 8.38 | 66 | 1.49 |
| SCLA_COL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 100.00 | 12.40 | 12.57 | 13.57 | 124 | 2.80 |
| THYA_FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CSTRACCC | 60.00 | 1.20 | 1.20 | 1.42 | 12 | 0.27 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCPE:HAR | 20.00 | 0.20 | 0.59 | 2.00 | 2 | 0.05 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB_PUC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CLM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 80.00 | 3.40 | 3.36 | 3.32 | 34 | 0.77 |
| LEPT_SAV | 100.00 | 22.00 | 21.13 | 20.30 | 220 | 4.97 |
| LIMN_LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PARA_ELE | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.23 |
| CAPRELLI | 40.00 | 2.40 | 4.24 | 7.83 | 24 | 0.54 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:ISCA | 100.00 | 72.20 | 74.69 | 77.27 | 722 | 15.32 |
| AMP:ITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR_COLU | 100.00 | 0.20 | 2.17 | 0.75 | 62 | 1.40 |
| CCROPH | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| GAM:IDEA | 40.00 | 1.20 | 1.79 | 2.67 | 12 | 0.27 |
| MELI_OEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 80.00 | 2.40 | 1.55 | 1.46 | 26 | 0.59 |
| CEO:IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ERTIS_M | 60.00 | 1.20 | 1.20 | 1.42 | 12 | 0.27 |
| PPOX:DAE | 100.00 | 3.00 | 2.35 | 1.83 | 30 | 0.64 |
| PROTMED | 100.00 | 23.80 | 19.49 | 15.95 | 238 | 5.38 |
| SYN_SHCE | 100.00 | 3.60 | 3.58 | 3.56 | 36 | 0.81 |
| CAL_GIG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CANC_BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC_GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC_PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN_DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEXIG_CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUNI_GUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GREG_GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG_ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG_BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND_PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN_FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN_OCC | 100.00 | 4.00 | 2.52 | 2.12 | 40 | 0.90 |
| PINN_TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG_GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER_AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA_AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR_PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI_UR | 100.00 | 1.00 | 0.0 | 0.0 | 10 | 0.23 |
| OPH_ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| RYCNC_HE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINOID | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| GENDROCH | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| LEPTO_CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIPUNCUL | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.23 |
| PHLORONID | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.32 |
| AMPC_HCX | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ANOP_PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOLIS_L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PGWI_NJT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| MASSIGEL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| MASS:HAM | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |

TOTAL

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TABLE 10 DENSITY SUMMARY

STATION 10 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FORAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FORAM 2 | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.15 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.20 | 0.84 | 0.32 | 22 | 0.42 |
| NEMATODA | 100.00 | 7.80 | 2.05 | 0.34 | 78 | 1.51 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ET LCNGA | 80.00 | 1.80 | 1.30 | 0.94 | 18 | 0.35 |
| ET PACI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ELL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL SANG | 100.00 | 4.00 | 2.55 | 1.63 | 40 | 0.77 |
| EXC VERU | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 80.00 | 2.40 | 1.67 | 1.17 | 24 | 0.46 |
| HEMIF BD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| HES IDAE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| LEP LONG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| LLMBFINE | 100.00 | 11.20 | 5.70 | 2.96 | 112 | 2.16 |
| MICRC NA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| NEPHTYSI | 100.00 | 9.80 | 4.09 | 1.70 | 98 | 1.89 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PROC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAU ELEG | 100.00 | 4.60 | 2.51 | 1.37 | 46 | 0.89 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHCLC MI | 100.00 | 11.00 | 2.25 | 0.50 | 110 | 2.12 |
| PHY GRO | 80.00 | 2.40 | 2.51 | 2.03 | 24 | 0.46 |
| PHY MAC | 60.00 | 0.60 | 0.85 | 0.50 | 6 | 0.12 |
| PLAT BIC | 100.00 | 3.40 | 2.61 | 2.00 | 34 | 0.66 |
| PCLY TUT | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.19 |
| PCLYNU 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PCLYNU 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| STPHN BE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.12 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM BRV | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIO RUB | 100.00 | 5.80 | 1.10 | 0.21 | 58 | 1.12 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 100.00 | 22.40 | 7.47 | 2.49 | 224 | 4.33 |
| CIR INAE | 100.00 | 8.00 | 4.64 | 2.69 | 80 | 1.54 |
| LAPLC EL | 100.00 | 1.80 | 0.84 | 0.39 | 18 | 0.35 |
| LACN CIR | 60.00 | 0.80 | 0.84 | 0.38 | 8 | 0.15 |
| MAGL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MAL IDAE | 100.00 | 11.60 | 4.34 | 1.62 | 116 | 2.24 |
| MESO TAY | 100.00 | 54.40 | 28.62 | 15.27 | 544 | 10.51 |
| MTRIC GC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEC FOR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NETO TEN | 100.00 | 33.60 | 8.20 | 2.00 | 336 | 6.49 |
| OPHEL LI | 100.00 | 3.60 | 2.07 | 1.19 | 36 | 0.70 |
| CFH IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| OWEN FUS | 100.00 | 2.60 | 1.34 | 0.69 | 26 | 0.50 |
| FECT GRA | 100.00 | 1.00 | 0.0 | 0.0 | 10 | 0.19 |
| PHYL PRO | 40.00 | 5.40 | 9.99 | 18.48 | 54 | 1.04 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| POLYCIR | 100.00 | 3.60 | 1.52 | 0.64 | 36 | 0.70 |
| POLYCURA | 100.00 | 9.00 | 2.00 | 1.00 | 90 | 1.77 |
| FRICRUSP | 100.00 | 8.60 | 4.77 | 2.65 | 86 | 1.66 |
| PS PCT K | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAE L | 100.00 | 2.80 | 2.05 | 1.50 | 28 | 0.54 |
| SAB IDAE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE CCS | 80.00 | 2.40 | 2.19 | 2.00 | 24 | 0.46 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 40.00 | 0.80 | 1.10 | 1.50 | 8 | 0.15 |
| GAST 1 | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MTR TUB | 40.00 | 1.60 | 1.73 | 3.00 | 10 | 0.19 |
| NASS MEN | 40.00 | 1.40 | 2.61 | 4.86 | 14 | 0.27 |
| GENOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CFISTHOU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 10 continued

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.03 |
| AXIN SER | 80.00 | 3.40 | 3.51 | 3.62 | 34 | 0.66 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINGCAR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.08 |
| MADMA | 80.00 | 2.60 | 1.82 | 1.27 | 26 | 0.50 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 100.00 | 166.80 | 65.68 | 25.39 | 1668 | 32.21 |
| NLC TEN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PCDD CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LCF | 100.00 | 5.00 | 3.08 | 1.90 | 50 | 0.97 |
| SCLA COL | 100.00 | 7.80 | 4.55 | 2.65 | 78 | 1.51 |
| TELLINA | 100.00 | 4.40 | 3.36 | 2.57 | 44 | 0.85 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ESTRACOD | 100.00 | 10.60 | 4.72 | 2.10 | 106 | 2.05 |
| CCPE:CAL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.08 |
| CUM 1 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| CUM 2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 100.00 | 5.20 | 3.27 | 2.06 | 52 | 1.00 |
| LEPT SAV | 100.00 | 3.40 | 2.70 | 2.15 | 34 | 0.66 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PARA ELE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IDAE | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.19 |
| AMP:ISCA | 80.00 | 1.80 | 1.64 | 1.50 | 18 | 0.35 |
| AMP:ITHE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR CCLU | 80.00 | 2.00 | 1.67 | 1.75 | 20 | 0.39 |
| CCROPH | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| GAM:ICLA | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.15 |
| KELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.12 |
| DED:IDAE | 100.00 | 2.80 | 1.79 | 1.14 | 28 | 0.54 |
| FFOTIS B | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOX:DAE | 80.00 | 3.40 | 3.44 | 3.47 | 34 | 0.66 |
| PROTMED | 100.00 | 18.20 | 10.28 | 5.81 | 182 | 3.51 |
| SYN SHOE | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.19 |
| CAL GIG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC PRU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG OR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUNI GUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FAG ALLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN FAB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PINN OCC | 100.00 | 19.00 | 4.85 | 1.24 | 190 | 3.67 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI UR | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.15 |
| GPH ACUL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| ASTERCID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNL FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECF:INDID | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| DENDROCH | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| LEPTC CL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SIPUNCUL | 100.00 | 2.40 | 2.61 | 2.83 | 24 | 0.46 |
| PFURCID | 100.00 | 4.80 | 2.55 | 1.81 | 48 | 0.93 |
| ANNU MEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANUP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHULIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCRI NJT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.08 |
| MASS:GEL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| MASS:HAH | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |

TOTAL

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TABLE 11 DENSITY SUMMARY

STATION 11 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| FCRAM 2 | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| ACCTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMLTEA | 80.00 | 1.60 | 0.89 | 0.50 | 16 | 0.26 |
| NEMATODA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| DIG CRN | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| DLHV ANN | 80.00 | 1.60 | 0.89 | 0.57 | 16 | 0.23 |
| ET LCNGA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| ELL SANG | 100.00 | 3.20 | 1.48 | 0.69 | 32 | 0.52 |
| EXC VERU | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.10 |
| GLYC_AME | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 2.40 | 2.07 | 1.79 | 24 | 0.39 |
| HEMIF ED | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.06 |
| HES IDAE | 40.00 | 1.00 | 1.41 | 2.00 | 10 | 0.16 |
| LEP LONG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| LWBRINE | 100.00 | 17.00 | 8.38 | 3.99 | 176 | 2.85 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYS1 | 100.00 | 5.00 | 7.00 | 5.44 | 90 | 1.46 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FRCC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| GNU ELGG | 60.00 | 0.80 | 0.89 | 0.88 | 8 | 0.13 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PFGLC MI | 60.00 | 1.60 | 1.67 | 1.75 | 16 | 0.26 |
| PHY GRC | 80.00 | 2.80 | 1.79 | 1.14 | 28 | 0.45 |
| PHY PAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PLAT BIC | 80.00 | 2.60 | 2.15 | 1.85 | 26 | 0.42 |
| PCLY TUT | 100.00 | 1.20 | 0.45 | 0.17 | 12 | 0.19 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIG IDAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIMEN BE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 80.00 | 3.40 | 2.19 | 1.41 | 34 | 0.55 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| AMPH IDAE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| ARM ERCV | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIO RUB | 100.00 | 3.20 | 2.59 | 2.09 | 32 | 0.52 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 100.00 | 5.20 | 4.57 | 4.75 | 52 | 0.84 |
| CIR IDAE | 80.00 | 1.40 | 1.52 | 1.64 | 14 | 0.23 |
| HAPLC EL | 60.00 | 3.00 | 3.08 | 3.17 | 30 | 0.49 |
| LALN CIR | 100.00 | 4.40 | 1.52 | 0.52 | 44 | 0.71 |
| MAGEL PI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| MAL IDAE | 60.00 | 2.20 | 2.17 | 2.14 | 22 | 0.36 |
| MESO TAY | 100.00 | 25.80 | 20.36 | 16.07 | 258 | 4.18 |
| MYRIC CC | 80.00 | 1.60 | 1.14 | 0.31 | 16 | 0.26 |
| NEO RBB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NGID TEN | 100.00 | 5.60 | 2.88 | 1.48 | 56 | 0.91 |
| OPHEL LI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 80.00 | 1.20 | 1.10 | 1.00 | 12 | 0.19 |
| PECT GRA | 80.00 | 2.60 | 2.70 | 2.81 | 26 | 0.42 |
| PFYL PKO | 100.00 | 375.00 | 201.66 | 108.44 | 3750 | 60.70 |
| PISTA CR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| POLYCIRR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| POLYCIRA | 80.00 | 1.40 | 0.89 | 0.57 | 14 | 0.23 |
| PRIONOSP | 100.00 | 4.00 | 2.92 | 2.12 | 40 | 0.65 |
| PSICT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSAB L | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.16 |
| SAB IDAE | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.06 |
| SCAL INF | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| SFIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB EA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE COS | 100.00 | 3.20 | 1.10 | 0.38 | 32 | 0.52 |
| TERE STR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| TER IDAE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITH TUB | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| NASS MEN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CENPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBENIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 11 continued

| STATION 11 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|--|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
| ACILA CA | 40.00 | 3.20 | 4.87 | 7.41 | 32 | 0.52 |
| AXIN SER | 100.00 | 6.20 | 4.15 | 2.77 | 62 | 1.00 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| LUCI ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| LUCI TEN | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.16 |
| MACOMA | 60.00 | 3.00 | 3.08 | 3.17 | 30 | 0.49 |
| MCCI RC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| MYS TUMI | 100.00 | 36.80 | 23.79 | 15.39 | 368 | 5.96 |
| NLC TEN | 40.00 | 0.60 | 0.83 | 1.33 | 6 | 0.10 |
| PCCO CEP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| PSER LCM | 40.00 | 1.60 | 2.70 | 3.91 | 16 | 0.26 |
| SCLA CGL | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.16 |
| TELLINA | 80.00 | 3.40 | 2.19 | 1.41 | 34 | 0.55 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GSTRACCD | 100.00 | 3.20 | 2.17 | 1.47 | 32 | 0.52 |
| COPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| COPE:MAR | 40.00 | 0.60 | 0.69 | 1.33 | 6 | 0.10 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CLM 1 | 80.00 | 1.60 | 1.14 | 0.81 | 16 | 0.26 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 80.00 | 2.40 | 2.70 | 3.04 | 24 | 0.39 |
| LEPT SAV | 40.00 | 0.60 | 0.69 | 1.33 | 6 | 0.10 |
| LINN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP:IDAL | 100.00 | 3.40 | 1.95 | 1.12 | 34 | 0.55 |
| AMP:ISCA | 60.00 | 0.60 | 0.64 | 0.88 | 6 | 0.13 |
| AMP:THOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACH COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CCROPH | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.10 |
| GAM:IDEA | 60.00 | 2.00 | 2.92 | 4.25 | 20 | 0.32 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CEO:IDAE | 60.00 | 0.60 | 0.84 | 0.88 | 6 | 0.13 |
| RHO:IS B | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FRGX:DAE | 100.00 | 21.80 | 4.15 | 0.79 | 218 | 3.53 |
| PROTCMED | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.16 |
| SYN SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BWA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| CANC PRC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAB DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EVALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG CR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| MUNI QUA | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.06 |
| DREG GRA | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.06 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 80.00 | 1.60 | 1.34 | 1.12 | 16 | 0.26 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 100.00 | 11.80 | 9.68 | 7.94 | 118 | 1.91 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.06 |
| SPIR PRI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.03 |
| AMP:JUR | 60.00 | 1.60 | 1.60 | 1.00 | 10 | 0.16 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNO FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LENDROCH | 60.00 | 1.40 | 1.67 | 2.00 | 14 | 0.23 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIPUNA CUL | 100.00 | 1.60 | 0.55 | 0.19 | 16 | 0.26 |
| PHOCENID | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.10 |
| AMMU HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANUP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PKRI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.10 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.10 |

TOTAL

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TABLE 12 DENSITY SUMMARY

STATION 12 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 80.00 | 799.20 | 446.77 | 249.75 | 7992 | 71.70 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.40 | 1.14 | 0.54 | 24 | 0.22 |
| NEMATODA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.05 |
| DIU GRN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| DOXY ANN | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.13 |
| ET LCNGA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.05 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELL MAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| ELL SANG | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.04 |
| EXC VENU | 40.00 | 1.20 | 2.17 | 3.92 | 12 | 0.11 |
| GLYC AME | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| GLYC CAP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 80.00 | 2.80 | 1.52 | 1.32 | 28 | 0.25 |
| HEMIP BO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| HES IDAE | 100.00 | 2.20 | 1.64 | 1.23 | 22 | 0.20 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBRINE | 100.00 | 41.20 | 23.78 | 13.73 | 412 | 3.70 |
| MICRO NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSSI | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.07 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PROC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GNU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PHYL CMT | 60.00 | 1.40 | 1.67 | 2.00 | 14 | 0.13 |
| PHY GRO | 60.00 | 1.60 | 1.79 | 1.70 | 18 | 0.16 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 60.00 | 2.20 | 2.95 | 3.95 | 22 | 0.20 |
| PCLY TUT | 100.00 | 2.20 | 1.10 | 0.55 | 22 | 0.20 |
| PCLYND 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYND 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PRCT GRA | 60.00 | 1.60 | 1.52 | 1.44 | 16 | 0.14 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SMEN BL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.04 |
| SYLLIS | 100.00 | 5.80 | 3.27 | 1.84 | 58 | 0.52 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.05 |
| AMPH DAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| ARM ENEV | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| AXIO RUB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 100.00 | 24.40 | 15.04 | 9.27 | 244 | 2.19 |
| CIR IDAE | 100.00 | 7.60 | 4.04 | 2.14 | 76 | 0.68 |
| HAPLE EL | 100.00 | 3.20 | 1.79 | 1.00 | 32 | 0.29 |
| LACN CIR | 100.00 | 8.20 | 1.64 | 0.33 | 82 | 0.74 |
| MAGEL PI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| MAL IDAE | 100.00 | 9.20 | 4.27 | 1.98 | 92 | 0.83 |
| MESC TAY | 60.00 | 0.60 | 0.89 | 0.50 | 6 | 0.05 |
| MYRIC OC | 100.00 | 2.40 | 0.89 | 0.33 | 24 | 0.22 |
| NEC FDS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| NCTO TEN | 100.00 | 5.00 | 0.71 | 0.10 | 50 | 0.45 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PECT GRA | 100.00 | 3.20 | 2.28 | 1.62 | 32 | 0.29 |
| PHYL PRC | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.05 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCIRR | 100.00 | 3.40 | 1.52 | 0.58 | 34 | 0.31 |
| PCLYCORA | 100.00 | 2.40 | 1.57 | 1.17 | 24 | 0.22 |
| PRICNUSP | 100.00 | 76.20 | 15.29 | 3.07 | 762 | 6.84 |
| PS PLT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAB L | 100.00 | 4.80 | 3.56 | 2.55 | 48 | 0.43 |
| SAB IDAE | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.07 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIO FIL | 60.00 | 0.60 | 0.89 | 0.50 | 6 | 0.05 |
| STREU BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| TELE CCS | 100.00 | 4.20 | 1.92 | 0.88 | 42 | 0.38 |
| TENE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTEOCIN | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| GAST 1 | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.05 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CENOPOTA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| CFISTHCU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FLRBGNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYPLAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |

Table 12 continued

STATION 12 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 20.00 | 5.60 | 12.52 | 28.00 | 56 | 0.50 |
| AXIN SEN | 80.00 | 3.40 | 4.16 | 5.09 | 34 | 0.31 |
| BANK SBT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.05 |
| CLINCCAR | 60.00 | 0.60 | 0.64 | 0.83 | 6 | 0.07 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI TEN | 100.00 | 4.40 | 3.78 | 2.23 | 44 | 0.57 |
| MADMA | 100.00 | 4.40 | 1.14 | 0.28 | 44 | 0.41 |
| MDCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| MYA AREN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| NYS TUMI | 100.00 | 3.60 | 3.56 | 3.34 | 36 | 0.34 |
| NLC TEN | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.04 |
| PDDC_GEP | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| PSEP LCR | 60.00 | 0.60 | 0.64 | 0.88 | 6 | 0.07 |
| SCLA CUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELLINA | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.05 |
| TPYA FLE | 100.00 | 3.40 | 0.69 | 0.57 | 34 | 0.13 |
| CESTRACCD | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| COPE SCAL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| COPE SHAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EALANUS | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| NEB PUG | 80.00 | 2.20 | 2.28 | 2.36 | 22 | 0.20 |
| CLM 1 | 60.00 | 0.60 | 0.64 | 0.88 | 6 | 0.07 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| DIASTYLI | 60.00 | 1.60 | 1.67 | 1.75 | 16 | 0.14 |
| LEPT SAV | 80.00 | 3.40 | 4.93 | 7.15 | 34 | 0.31 |
| LIMN LIG | 20.00 | 0.40 | 1.24 | 3.00 | 4 | 0.05 |
| PARA ELE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| AMP ISCA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| AMP THDE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACR COLU | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| CEROPH | 40.00 | 0.40 | 0.69 | 1.33 | 4 | 0.05 |
| GAM IDAE | 80.00 | 1.20 | 0.84 | 0.98 | 12 | 0.11 |
| MELI DEN | 100.00 | 2.80 | 1.30 | 0.61 | 28 | 0.25 |
| MELITA | 100.00 | 2.80 | 1.30 | 0.61 | 28 | 0.25 |
| QED IDAE | 60.00 | 2.00 | 2.00 | 2.00 | 20 | 0.18 |
| EDOTIS E | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PFUX IDAE | 100.00 | 23.60 | 5.66 | 1.45 | 236 | 2.12 |
| PRUTOMED | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BKA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRJ | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.04 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG CR | 40.00 | 1.00 | 1.73 | 3.00 | 10 | 0.09 |
| MUNI GUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 60.00 | 2.60 | 2.52 | 4.25 | 20 | 0.18 |
| PINN EAH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN GIC | 60.00 | 0.60 | 0.64 | 0.88 | 6 | 0.07 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PNI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI UR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.02 |
| CPH ACUL | 80.00 | 1.60 | 1.52 | 1.44 | 16 | 0.14 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNC PE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCH | 20.00 | 0.80 | 1.79 | 4.00 | 8 | 0.07 |
| LEPTG CL | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.07 |
| SIPUNCUL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| PHOLMID | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.04 |
| AMPH HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANUP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PERI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 20.00 | 2.00 | 4.47 | 10.00 | 20 | 0.18 |
| MASS GLL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS HAR | 40.00 | 0.40 | 0.69 | 1.33 | 4 | 0.05 |

TOTAL

11146

TABLE 13 DENSITY SUMMARY

STATION 13 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FERAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FERAM 2 | 80.00 | 1.60 | 0.89 | 0.50 | 16 | 0.35 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEMERTEA | 100.00 | 2.40 | 2.19 | 2.00 | 24 | 0.53 |
| NEMATODA | 60.00 | 1.00 | 1.22 | 1.50 | 10 | 0.22 |
| DICERN | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| DICERN ANN | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.09 |
| ETICONGA | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.09 |
| ETIPACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EULMAC | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.09 |
| ELLISANG | 100.00 | 2.80 | 1.79 | 1.14 | 28 | 0.62 |
| EXUVERU | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| GLYCAME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 5.00 | 2.52 | 1.70 | 50 | 1.10 |
| MEMIPBU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HESIDAE | 60.00 | 2.00 | 1.87 | 1.75 | 20 | 0.44 |
| LEP LONG | 60.00 | 1.20 | 1.64 | 2.25 | 12 | 0.26 |
| LUMBRINE | 100.00 | 45.60 | 23.67 | 11.67 | 456 | 10.05 |
| MICRONA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYSI | 100.00 | 7.20 | 3.70 | 1.90 | 72 | 1.59 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NERBRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NERPROC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| GNU ELEG | 100.00 | 1.60 | 0.89 | 0.50 | 16 | 0.35 |
| PALEBEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEISASP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHLEMI | 100.00 | 2.60 | 1.52 | 0.88 | 26 | 0.57 |
| PHYCRO | 60.00 | 1.40 | 2.07 | 3.07 | 14 | 0.31 |
| PHYMAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLATBIC | 100.00 | 4.20 | 1.52 | 0.88 | 42 | 0.93 |
| PCLYTUT | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PROTGRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| SIGIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREBE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 60.00 | 2.40 | 1.95 | 1.58 | 24 | 0.53 |
| EPFRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHAAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXICRUB | 80.00 | 2.80 | 1.64 | 0.96 | 28 | 0.62 |
| CAPCAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAPIDAE | 100.00 | 17.20 | 9.26 | 4.98 | 172 | 3.79 |
| CIRINAE | 100.00 | 4.60 | 2.19 | 1.04 | 46 | 1.01 |
| HAPLEL | 100.00 | 3.40 | 1.67 | 0.82 | 34 | 0.75 |
| LACN CIR | 100.00 | 2.20 | 0.84 | 0.52 | 22 | 0.49 |
| MAGELFI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MALIDAE | 100.00 | 9.20 | 5.26 | 3.01 | 92 | 2.03 |
| MESC TAY | 100.00 | 18.40 | 6.59 | 2.65 | 184 | 4.06 |
| MYRICUC | 100.00 | 2.80 | 0.45 | 0.07 | 28 | 0.62 |
| NEUROB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| NOCTIDEN | 100.00 | 17.60 | 14.84 | 12.52 | 176 | 3.88 |
| OPHEL LI | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| OPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OKEN FUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PECTGRA | 80.00 | 1.60 | 1.52 | 1.44 | 16 | 0.35 |
| PHYLPRO | 100.00 | 151.60 | 102.99 | 69.97 | 1516 | 33.42 |
| PISTA CR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| PCLYCIR | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.26 |
| PCLYDGRA | 100.00 | 5.20 | 3.19 | 1.96 | 52 | 1.15 |
| FRICNDSP | 100.00 | 7.00 | 3.24 | 1.50 | 70 | 1.54 |
| PSIPCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSISAB L | 100.00 | 1.40 | 0.89 | 0.57 | 14 | 0.31 |
| SABIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.09 |
| SPIO FIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| STREBA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYLPLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELECS | 60.00 | 1.60 | 1.82 | 2.06 | 16 | 0.35 |
| TERE SFR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRICGLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPFRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MITR TUB | 20.00 | 0.80 | 1.79 | 4.00 | 8 | 0.18 |
| NASS MEN | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.09 |
| LENOPUTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 13 continued

STATION 13 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE- | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|-------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 100.00 | 12.40 | 7.70 | 4.78 | 124 | 2.73 |
| AXIN SER | 80.00 | 5.60 | 7.90 | 6.59 | 96 | 2.12 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 20.00 | 0.20 | 0.45 | 1.00 | 0 | 0.04 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| LUCI TEN | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| MAGUNA | 80.00 | 4.20 | 2.68 | 1.71 | 42 | 0.93 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| MYS YUMI | 80.00 | 26.20 | 20.40 | 15.89 | 262 | 5.78 |
| NLC TEN | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.13 |
| PLDO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSEP LCR | 40.00 | 1.20 | 2.17 | 3.92 | 12 | 0.26 |
| SLA CUL | 40.00 | 1.00 | 1.22 | 1.50 | 10 | 0.22 |
| TELLINA | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.13 |
| THYA FLE | 60.00 | 1.60 | 2.07 | 2.69 | 16 | 0.35 |
| OSTRACOD | 40.00 | 1.60 | 2.61 | 4.25 | 16 | 0.35 |
| CCPE:CAL | 80.00 | 3.00 | 3.16 | 3.33 | 30 | 0.66 |
| CCPE:MAR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 1 | 80.00 | 2.40 | 1.82 | 1.38 | 24 | 0.53 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 80.00 | 3.80 | 2.77 | 2.03 | 38 | 0.84 |
| LEPT SAV | 80.00 | 4.40 | 4.56 | 4.73 | 44 | 0.97 |
| LIRALIE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| PANA ELE | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.13 |
| CAPRELLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| AMP:IDAE | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.18 |
| AMP:ISCA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| AMP:ITCE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AGR COLU | 80.00 | 2.20 | 2.17 | 2.14 | 22 | 0.49 |
| CCRDPH | 40.00 | 0.60 | 0.59 | 1.33 | 6 | 0.13 |
| GAM:IDAE | 100.00 | 2.00 | 1.41 | 1.00 | 20 | 0.44 |
| MELI GEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 20.00 | 1.00 | 2.24 | 5.00 | 10 | 0.22 |
| GEOM:IDAE | 100.00 | 2.20 | 1.14 | 0.50 | 22 | 0.57 |
| EMO:IS:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHOA:IDAE | 100.00 | 18.00 | 3.62 | 5.14 | 180 | 3.97 |
| PRCTMED | 60.00 | 2.20 | 2.28 | 2.36 | 22 | 0.49 |
| SYN SHCE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC BPA | 40.00 | 0.40 | 0.59 | 0.75 | 4 | 0.09 |
| CANC GHA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EVALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG DR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUNI OVA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GREG GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAND PLA | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.18 |
| PINN EAH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 100.00 | 3.20 | 3.11 | 2.55 | 32 | 0.84 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI UR | 60.00 | 1.20 | 1.20 | 1.42 | 12 | 0.26 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNO FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECM:INGID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENDROCH | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| LEPTO CL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SIRUNCUL | 100.00 | 2.20 | 0.64 | 0.32 | 22 | 0.49 |
| PHOCCNID | 60.00 | 3.60 | 5.40 | 7.68 | 36 | 0.84 |
| AMMO HEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANCP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PHO:IS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCRI NGT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.04 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 20.00 | 1.20 | 2.68 | 6.00 | 12 | 0.26 |

TOTAL

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TABLE 14 DENSITY SUMMARY

STATION 14 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SO.M. | PCT OF TOTAL DENSITY/SO.M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCHAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACCTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ALMERTEA | 100.00 | 4.40 | 1.67 | 0.64 | 44 | 1.50 |
| NEWATUDA | 60.00 | 1.40 | 1.67 | 2.00 | 14 | 0.43 |
| DIC ERN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OGRY ANN | 100.00 | 10.00 | 9.03 | 8.15 | 100 | 3.40 |
| ET LINGA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EXG VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYINDE | 100.00 | 3.80 | 0.45 | 0.05 | 38 | 1.29 |
| HENIF BO | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| HES IDAE | 100.00 | 5.20 | 6.83 | 5.08 | 92 | 3.13 |
| LEP LONG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| LUMBRINE | 80.00 | 10.20 | 11.21 | 12.32 | 102 | 3.47 |
| MICRL NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYSI | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.20 |
| NEPHTYS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER PRUC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| CNU ELEG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEIS ASP | 80.00 | 1.60 | 1.14 | 0.81 | 16 | 0.54 |
| PHGLC PI | 80.00 | 1.80 | 1.20 | 1.24 | 18 | 0.61 |
| PHY GRD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PHY MAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PLAT BIC | 80.00 | 1.80 | 1.92 | 2.06 | 18 | 0.61 |
| PCLY TUT | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.48 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FRCT GRA | 40.00 | 1.60 | 2.30 | 3.31 | 16 | 0.54 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEN BE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| SYLL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLL IS | 100.00 | 9.80 | 4.67 | 2.52 | 98 | 3.33 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPH OAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| ARM BREV | 100.00 | 53.20 | 59.35 | 66.22 | 532 | 18.08 |
| AXIC RUB | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.20 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAR IDAE | 80.00 | 5.40 | 6.19 | 7.09 | 54 | 1.84 |
| CIR INAE | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.41 |
| HAPLC EL | 100.00 | 2.40 | 1.12 | 0.96 | 24 | 0.82 |
| LAGN CIR | 80.00 | 3.00 | 2.00 | 1.33 | 30 | 1.02 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| KAL IDAE | 100.00 | 16.60 | 7.83 | 5.78 | 106 | 3.60 |
| MESQ PAY | 60.00 | 0.60 | 0.45 | 0.88 | 6 | 0.20 |
| MYRIC OC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| NEG ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NCTU TEN | 80.00 | 7.80 | 6.98 | 8.24 | 78 | 2.65 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OWEN FUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PECT GRA | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.20 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCI RH | 80.00 | 1.20 | 0.84 | 0.58 | 12 | 0.41 |
| PCLYDDRA | 40.00 | 1.80 | 2.60 | 4.00 | 18 | 0.61 |
| PRICKGSP | 100.00 | 45.80 | 30.09 | 15.70 | 458 | 15.57 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAB L | 40.00 | 1.80 | 2.49 | 3.44 | 18 | 0.61 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SFIC FIL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| STREB BA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE CUS | 100.00 | 2.60 | 2.67 | 1.65 | 26 | 0.88 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLANPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CFISTHCB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TERUCNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PELYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 14 continued

STATION 14 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODF | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ. M. | PCT OF TOTAL DENSITY/50. M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|--------------------|--------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 80.00 | 2.00 | 2.00 | 2.00 | 20 | 0.68 |
| BANK SLT | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| BIV 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUCI ANN | 20.00 | 0.60 | 1.34 | 3.00 | 6 | 0.20 |
| LUCI TEN | 60.00 | 2.40 | 3.78 | 5.96 | 24 | 0.82 |
| MACOMA | 60.00 | 1.40 | 2.07 | 3.07 | 14 | 0.48 |
| MCOI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.20 |
| ALC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EDU GRP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PSB CLR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELA CCL | 20.00 | 0.80 | 1.79 | 4.00 | 8 | 0.27 |
| TELLINA | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.14 |
| THYA FLE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| OSTRACOD | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| CCRECAL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| CCREHAR | 80.00 | 1.80 | 1.52 | 2.06 | 18 | 0.61 |
| EPLANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEB PUG | 100.00 | 8.80 | 5.07 | 2.92 | 88 | 2.99 |
| CUM 1 | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.20 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| LEPT SAV | 80.00 | 5.60 | 3.65 | 2.34 | 56 | 1.90 |
| LINA LIG | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.20 |
| PARA ELE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| CAPNELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP IDAE | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.20 |
| AMP ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPITGE | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.14 |
| ACR CULU | 100.00 | 7.20 | 3.70 | 1.90 | 72 | 2.45 |
| CCROPH | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| GAM IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELIFA | 80.00 | 1.40 | 0.89 | 0.57 | 14 | 0.48 |
| CEO IDAE | 80.00 | 2.00 | 1.27 | 1.75 | 20 | 0.68 |
| PEOIS R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PEOX IDAE | 100.00 | 39.60 | 21.74 | 11.94 | 396 | 13.46 |
| PACTMLO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYN SHOC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| CAL GIG | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| CANC BRA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CRAA DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HEMIG OM | 40.00 | 1.00 | 1.41 | 2.00 | 10 | 0.34 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| HAND PLA | 80.00 | 2.00 | 1.58 | 1.25 | 20 | 0.68 |
| PINN FAM | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN OCC | 100.00 | 5.40 | 2.79 | 1.44 | 54 | 1.84 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHI UR | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.14 |
| OPH ACUL | 80.00 | 2.60 | 3.11 | 3.46 | 28 | 0.95 |
| ASTERIOD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYCNC HE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECPTIOD | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DENUDCH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LEPTO CL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| SIPUACUL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PFJRONID | 60.00 | 1.40 | 2.07 | 3.07 | 14 | 0.48 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANOP PUR | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.20 |
| PHULIS L | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.07 |
| PERI NDT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

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TABLE 15 DENSITY SUMMARY

STATION 15 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACOTYLEA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| NEPHEEA | 100.00 | 5.20 | 3.49 | 2.35 | 52 | 1.56 |
| NEPATEA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.12 |
| DTC CRK | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DORV ANN | 100.00 | 20.00 | 20.55 | 21.13 | 200 | 5.93 |
| ET LCNGA | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.24 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EXD VERU | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| GLYC AME | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINOE | 80.00 | 1.40 | 1.52 | 1.04 | 14 | 0.42 |
| HEMIF BO | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.18 |
| HES IDAE | 80.00 | 6.40 | 5.81 | 5.28 | 64 | 1.92 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LUMBRINE | 80.00 | 16.40 | 17.27 | 18.19 | 164 | 4.91 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHTYSI | 60.00 | 0.80 | 0.84 | 0.98 | 8 | 0.24 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FRCC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CNU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PALE BL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PELS ASP | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.12 |
| PHCLC MI | 100.00 | 3.60 | 2.20 | 1.47 | 36 | 1.03 |
| PHY GRO | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.12 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 7.00 | 5.24 | 3.93 | 70 | 2.09 |
| PCLY TUT | 60.00 | 1.40 | 1.52 | 1.64 | 14 | 0.42 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FRET GRA | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.12 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHIN EE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 100.00 | 6.60 | 4.28 | 2.77 | 66 | 1.97 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ARM GREY | 100.00 | 17.60 | 8.96 | 4.96 | 176 | 5.27 |
| AXIG RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 80.00 | 2.20 | 1.64 | 1.23 | 22 | 0.66 |
| CIR IDAE | 40.00 | 0.40 | 0.69 | 1.33 | 6 | 0.18 |
| FARLG EL | 80.00 | 2.00 | 1.58 | 1.25 | 20 | 0.60 |
| LAUN CIR | 80.00 | 5.00 | 4.30 | 3.70 | 50 | 1.50 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NAL IDAE | 100.00 | 5.00 | 3.16 | 2.00 | 50 | 1.50 |
| MESC TAY | 80.00 | 1.80 | 1.10 | 0.67 | 18 | 0.54 |
| MYRIC UC | 20.00 | 0.40 | 0.69 | 2.00 | 4 | 0.12 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NCIO TEN | 100.00 | 5.20 | 1.92 | 0.71 | 52 | 1.56 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| QREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PECT GRA | 100.00 | 2.20 | 1.30 | 0.77 | 22 | 0.66 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLY CIR | 100.00 | 2.60 | 1.14 | 0.50 | 26 | 0.78 |
| PCLYDRA | 80.00 | 2.60 | 2.30 | 2.04 | 26 | 0.78 |
| PRIGNOSP | 100.00 | 64.00 | 26.26 | 10.77 | 640 | 19.15 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAB L | 100.00 | 3.20 | 1.20 | 0.53 | 32 | 0.96 |
| SAB IDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SFID FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STREB HA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STYL PLU | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.12 |
| TELE COS | 100.00 | 2.40 | 1.14 | 0.50 | 26 | 0.78 |
| TLAE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAST 1 | 60.00 | 0.80 | 0.84 | 0.98 | 8 | 0.24 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MTR TUB | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| NASS MEN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| CENHOTA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.06 |
| CFISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| FCLYPLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TABLE 16 DENSITY SUMMARY

STATION 16 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT. OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ. M. | PCT OF TOTAL DENSITY/SQ. M. |
|------------|----------------------------|-----------------------|-----------------------|------------------------------|--------------------|--------------------------------|
| FCRAM 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| FCRAM 2 | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| ACCTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NLMERTEA | 100.00 | 1.80 | 0.84 | 0.39 | 18 | 0.44 |
| NEMATODA | 80.00 | 2.80 | 2.17 | 1.68 | 28 | 0.69 |
| DIO CRN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| DCHV ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ET LCNGA | 60.00 | 0.60 | 0.84 | 0.88 | 6 | 0.20 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EUL MAC | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.20 |
| LLL SANG | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.20 |
| EXO VENU | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.10 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GLYCINDE | 100.00 | 6.00 | 1.87 | 0.58 | 60 | 1.47 |
| HEMIF BO | 80.00 | 1.40 | 1.14 | 0.93 | 14 | 0.34 |
| HES IDAE | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.25 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| LLMPFTE | 100.00 | 13.20 | 6.58 | 3.69 | 132 | 3.24 |
| MICRC MA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NEPHYS 1 | 100.00 | 8.80 | 4.76 | 2.58 | 88 | 2.16 |
| NEPHYS 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NER FRCC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| CNU ELEG | 100.00 | 2.60 | 1.82 | 1.27 | 26 | 0.64 |
| PALE UEL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PEIS ASP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PHCLC MI | 100.00 | 6.80 | 3.56 | 1.87 | 68 | 1.67 |
| PHY GRC | 60.00 | 2.60 | 2.41 | 2.62 | 26 | 0.64 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLAT BIC | 100.00 | 5.40 | 3.58 | 2.37 | 54 | 1.33 |
| PCLY TUT | 80.00 | 1.80 | 1.64 | 1.50 | 18 | 0.44 |
| PCLYNO 1 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PRET GRA | 60.00 | 0.60 | 0.84 | 0.88 | 6 | 0.20 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| STHEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLLIS | 100.00 | 4.20 | 3.56 | 3.74 | 42 | 1.03 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMPH IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ARM EREV | 60.00 | 3.20 | 3.56 | 4.91 | 32 | 0.77 |
| AXIO RUB | 100.00 | 5.00 | 4.30 | 3.70 | 50 | 1.23 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAP IDAE | 100.00 | 18.80 | 15.59 | 12.94 | 188 | 4.62 |
| CIR IDAE | 100.00 | 3.80 | 2.68 | 1.89 | 38 | 0.93 |
| HARLC ML | 100.00 | 2.00 | 0.71 | 0.25 | 20 | 0.49 |
| LAGN CIR | 60.00 | 1.60 | 1.82 | 2.06 | 16 | 0.39 |
| MAGEL PI | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.10 |
| MAL IDAE | 100.00 | 1.80 | 1.79 | 0.84 | 18 | 0.44 |
| MESO TAY | 100.00 | 24.20 | 9.60 | 3.81 | 242 | 5.95 |
| MYRIC OC | 60.00 | 1.60 | 2.47 | 2.69 | 16 | 0.39 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| NETO TEN | 100.00 | 16.20 | 1.92 | 0.23 | 162 | 3.98 |
| OPHEL LI | 100.00 | 4.40 | 3.51 | 2.80 | 44 | 1.08 |
| OPH IDAE | 100.00 | 2.40 | 1.14 | 0.54 | 24 | 0.59 |
| CHEN FUS | 80.00 | 0.80 | 0.45 | 0.25 | 8 | 0.20 |
| PECT GRA | 60.00 | 3.00 | 3.08 | 3.17 | 30 | 0.74 |
| PHYL PRO | 100.00 | 62.20 | 59.95 | 57.78 | 622 | 15.28 |
| PSTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCLYCI RR | 80.00 | 2.20 | 1.92 | 1.68 | 22 | 0.54 |
| PCLYCO NA | 100.00 | 3.00 | 1.73 | 1.00 | 30 | 0.74 |
| PHICAN SP | 100.00 | 21.60 | 6.58 | 2.00 | 216 | 5.31 |
| PS POT H | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PS SAB L | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.15 |
| SAB IDAE | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| SCAL INF | 100.00 | 2.60 | 1.34 | 0.69 | 26 | 0.64 |
| SPID FIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| STREN BA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SYLL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TELE COS | 60.00 | 0.80 | 0.84 | 0.88 | 6 | 0.20 |
| TERE STH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| TER IDAE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ACTECCIN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| GAST 1 | 60.00 | 0.60 | 0.55 | 0.50 | 6 | 0.15 |
| GAST 2 | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| MITH TUE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS MEN | 60.00 | 2.20 | 2.05 | 1.91 | 22 | 0.54 |
| CINOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPISIHCS | 40.00 | 0.60 | 0.59 | 1.33 | 6 | 0.15 |
| TURBCNIL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

Table 16 continued

STATION 16 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | FREQUENCY PCT OF HAULS | MEAN DENSITY/ HAUL | STANDARD DEVIATION | COEFFICIENT OF DISPERSION | DENSITY/ SQ.M. | PCT OF TOTAL DENSITY/SQ.M. |
|------------|---------------------------|-----------------------|-----------------------|------------------------------|-------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AXIN SER | 80.00 | 3.40 | 4.51 | 5.97 | 34 | 0.84 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BIV 2 | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.10 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CARD VEN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CLINCCAN | 40.00 | 1.00 | 1.41 | 2.00 | 10 | 0.25 |
| LUCI ANN | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| LLCI TEN | 40.00 | 0.80 | 1.30 | 2.12 | 8 | 0.20 |
| MACOMA | 100.00 | 2.40 | 0.55 | 0.13 | 24 | 0.59 |
| MCDI RLC | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MLSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYA ARGN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MYS TUMI | 100.00 | 52.20 | 27.00 | 14.03 | 522 | 12.83 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCCQ CEP | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PSCP LCR | 100.00 | 6.20 | 3.03 | 1.48 | 62 | 1.52 |
| SCLA CCL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| TELLINA | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.20 |
| TYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| OSTRACOD | 100.00 | 5.60 | 3.51 | 2.20 | 56 | 1.38 |
| CPRE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPRE:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| BALANUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| NES PUG | 60.00 | 1.00 | 1.00 | 1.00 | 10 | 0.25 |
| CLM 1 | 60.00 | 1.20 | 1.64 | 2.25 | 12 | 0.29 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| DIASTYLI | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| LEPT SAV | 100.00 | 6.00 | 3.81 | 2.42 | 60 | 1.47 |
| LIMN LIG | 20.00 | 2.60 | 2.81 | 13.00 | 26 | 0.63 |
| PARA ELE | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.20 |
| CAPHELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| AMP'IDAE | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.20 |
| AMP'ISCA | 40.00 | 1.20 | 2.17 | 1.92 | 12 | 0.29 |
| AMPITHE | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| ACQ COLU | 60.00 | 0.80 | 0.84 | 0.88 | 8 | 0.20 |
| CEROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GAM'IDAE | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.25 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MELITA | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.25 |
| OLD'IDAE | 100.00 | 2.60 | 1.82 | 1.27 | 26 | 0.64 |
| PHOTIS H | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.15 |
| PHCX'DAE | 100.00 | 18.80 | 10.70 | 6.15 | 188 | 4.62 |
| PROTOMED | 60.00 | 2.80 | 3.42 | 4.18 | 28 | 0.69 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CAL SIG | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CANC SHA | 40.00 | 1.00 | 1.00 | 1.00 | 10 | 0.25 |
| CANC GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CANC PRC | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| CRAA DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ELALUS | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| MEMIG OR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| MLNI QUA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| OREG GRA | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PAG ALU | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PAG FER | 40.00 | 1.20 | 1.64 | 2.25 | 12 | 0.29 |
| PAND PLA | 60.00 | 1.20 | 1.30 | 1.42 | 12 | 0.29 |
| PIND FAN | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PINN CCC | 100.00 | 24.80 | 8.67 | 3.03 | 248 | 6.09 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PLG CRA | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| SCLER AL | 20.00 | 0.40 | 0.89 | 2.00 | 4 | 0.10 |
| SCYRA AC | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| SFIR PRI | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| CPH ACUL | 40.00 | 0.60 | 0.89 | 1.33 | 6 | 0.15 |
| ASTERCID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PYCNE FE | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ECFINGID | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| GENDROCH | 80.00 | 1.00 | 0.71 | 0.50 | 10 | 0.25 |
| LEFTE CL | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| SIRIACUL | 100.00 | 3.80 | 1.74 | 0.84 | 38 | 0.93 |
| PHERLND | 80.00 | 1.40 | 0.59 | 0.57 | 14 | 0.34 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| ANCP PUR | 20.00 | 0.20 | 0.45 | 1.00 | 2 | 0.05 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| PCHI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |
| MASS:GEL | 40.00 | 0.40 | 0.55 | 0.75 | 4 | 0.10 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 |

TOTAL

4070

APPENDIX IVB

BENTH 2/6 data reduction: infaunal biomass

TABLE 1 EICMASS (WEIGHT) SUMMARY

STATION 1 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.16 | 0.15 | 1.60 | 1.16 | 0.16 | 1.08 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIO GRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DERV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LUNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL SANG | 0.02 | 0.04 | 0.20 | 0.15 | 0.03 | 0.19 |
| EXC VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.04 | 0.05 | 0.40 | 0.29 | 0.06 | 0.38 |
| HEVIF BG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PES* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LUNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLMBRINE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 1.02 | 1.06 | 10.20 | 7.41 | 1.43 | 9.60 |
| NEPHYIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FRCC | 0.02 | 0.04 | 0.20 | 0.15 | 0.03 | 0.19 |
| ONU ELEG | 0.54 | 0.35 | 5.40 | 3.92 | 0.76 | 5.03 |
| PALC BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFOLC MI | 0.10 | 0.07 | 1.00 | 0.73 | 0.14 | 0.93 |
| PHY GRU | 0.24 | 0.18 | 2.40 | 1.74 | 0.34 | 2.26 |
| PHY NAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 4.14 | 8.93 | 41.40 | 30.09 | 5.80 | 38.97 |
| PCLY TUT | 0.12 | 0.27 | 1.20 | 0.87 | 0.17 | 1.13 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIMEN SE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM EREV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIO RUB | 0.42 | 0.36 | 4.20 | 3.05 | 0.59 | 3.95 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP* IDAE | 0.02 | 0.04 | 0.20 | 0.15 | 0.03 | 0.19 |
| CIR* INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAPLC EL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LACN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAGEL FI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL* IDAE | 0.08 | 0.13 | 0.80 | 0.58 | 0.11 | 0.75 |
| MESO TAY | 2.08 | 1.20 | 20.80 | 15.12 | 2.91 | 19.58 |
| MYRIC DC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEU ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEIG TER | 0.20 | 0.07 | 2.00 | 1.45 | 0.28 | 1.98 |
| OPHEL LI | 0.08 | 0.08 | 0.80 | 0.58 | 0.11 | 0.75 |
| CPH* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GWEN FUS | 0.12 | 0.08 | 1.20 | 0.87 | 0.17 | 1.13 |
| RECT GRA | 0.02 | 0.04 | 0.20 | 0.15 | 0.00 | 0.01 |
| PHYL FRC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.04 | 0.05 | 0.40 | 0.29 | 0.06 | 0.38 |
| PCLYORA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRICNOSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS* PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS* SAG L | 0.02 | 0.04 | 0.20 | 0.15 | 0.03 | 0.19 |
| SAB* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFID FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE EA | 0.06 | 0.13 | 0.60 | 0.44 | 0.08 | 0.56 |
| SIYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE COS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER* IDAE | 0.02 | 0.04 | 0.20 | 0.15 | 0.03 | 0.19 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.24 | 0.18 | 2.40 | 1.74 | 0.17 | 1.13 |
| CENGFCTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPISTHUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TLRBCNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYPLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 1 continued

| STATION 1 APR-MAY 25-7 1975 AND JAN 27 1976 5 HAULS | | | | | | |
|---|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SEA | 0.20 | 0.07 | 2.00 | 1.45 | 0.10 | 0.67 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.02 | 0.04 | 0.20 | 0.15 | 0.01 | 0.07 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINGCAR | 0.10 | 0.17 | 1.00 | 0.73 | 0.05 | 0.34 |
| LCCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LCCI TEN | 0.30 | 0.29 | 3.00 | 2.16 | 0.15 | 1.01 |
| MACOMA | 0.02 | 0.04 | 0.20 | 0.15 | 0.01 | 0.07 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.16 | 0.05 | 1.60 | 1.15 | 0.08 | 0.54 |
| MUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LOR | 0.06 | 0.05 | 0.60 | 0.44 | 0.03 | 0.20 |
| SCLA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CGPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB FUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIAS TYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LINN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.24 | 0.05 | 2.40 | 1.74 | 0.05 | 0.32 |
| AMP:ITHE | 0.02 | 0.04 | 0.20 | 0.15 | 0.00 | 0.03 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.04 | 0.05 | 0.40 | 0.29 | 0.01 | 0.05 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEO:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:IS. B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRUTMED | 0.20 | 0.17 | 2.00 | 1.45 | 0.04 | 0.27 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.02 | 0.04 | 0.20 | 0.15 | 0.00 | 0.03 |
| CANC PRC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HENIG CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALBU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BEH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.16 | 0.30 | 1.60 | 1.16 | 0.03 | 0.22 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN CCC | 0.10 | 0.07 | 1.00 | 0.73 | 0.02 | 0.13 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG GRA | 0.60 | 1.34 | 6.00 | 4.36 | 0.12 | 0.81 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.06 | 0.05 | 0.60 | 0.44 | 0.02 | 0.12 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTERGID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHYCNC PE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDRUCH | 0.12 | 0.18 | 1.20 | 0.87 | 0.12 | 0.81 |
| LEPTC CL | 0.44 | 0.41 | 4.40 | 3.20 | 0.44 | 2.96 |
| SIPUNCUL | 0.02 | 0.04 | 0.20 | 0.15 | 0.02 | 0.13 |
| PHO:CNID | 0.46 | 0.23 | 4.60 | 3.34 | 0.05 | 0.31 |
| AMNC HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:IS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO: NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.62 | 1.23 | 6.20 | 4.51 | 0.06 | 0.42 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

137.60

14.87

TABLE 2 EICPASS (WEIGHT) SUMMARY

STATION 2 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.12 | 0.08 | 1.20 | 0.47 | 0.12 | 0.36 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LCNGA | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.26 | 0.11 | 2.60 | 1.02 | 0.36 | 1.11 |
| EXC VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AVE | 0.58 | 1.30 | 5.80 | 2.29 | 0.81 | 2.47 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIP BO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LCNG | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMERINE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MICHC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYS 1 | 0.92 | 1.18 | 9.20 | 3.61 | 1.29 | 3.91 |
| NEPHYS 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FROC | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GNU ELEG | 3.44 | 2.45 | 34.40 | 13.51 | 4.82 | 14.62 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIG ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCLC MI | 0.12 | 0.08 | 1.20 | 0.47 | 0.17 | 0.51 |
| PHY CRU | 0.26 | 0.12 | 2.60 | 1.02 | 0.36 | 1.11 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT JIC | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLY TUT | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLYNG 1 | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNG 2 | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHGT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STRN EE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM EREY | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXID FUS | 2.62 | 0.58 | 26.20 | 10.29 | 3.67 | 11.14 |
| CAP CAF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HARLE EL | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LAGN CIR | 0.04 | 0.09 | 0.40 | 0.16 | 0.06 | 0.17 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KAL*IDAE | 0.10 | 0.00 | 1.00 | 0.39 | 0.14 | 0.43 |
| MESJ TAY | 13.68 | 2.62 | 136.80 | 53.73 | 19.15 | 58.15 |
| MYNIC OC | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCTO TEN | 0.20 | 0.21 | 2.00 | 0.79 | 0.28 | 0.85 |
| OPHEL LI | 0.22 | 0.11 | 2.20 | 0.86 | 0.31 | 0.94 |
| OPH*IDAE | 0.04 | 0.05 | 0.40 | 0.16 | 0.06 | 0.17 |
| OWEN FUS | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.04 | 0.09 | 0.40 | 0.16 | 0.00 | 0.01 |
| PHYL FRC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLYCIRR | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLYCDRA | 0.06 | C.05 | 0.60 | 0.24 | 0.08 | 0.26 |
| PRICNOSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*PCT H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS* SAB L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIU FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STRIB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CCS | 0.28 | 0.16 | 2.80 | 1.10 | 0.03 | 0.09 |
| TERE STR | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MIR TUE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.48 | 0.28 | 4.80 | 1.89 | 0.34 | 1.02 |
| CENUPOTA | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBGNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCLYFLAC | 0.0 | C.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 2 continued

| STATION 2 APR-MAY 25-7, 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ADN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MACCMA | 0.46 | 0.26 | 4.60 | 1.81 | 0.23 | 0.70 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.38 | 0.04 | 3.80 | 1.49 | 0.19 | 0.53 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| POGO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LOR | 0.08 | 0.02 | 0.80 | 0.31 | 0.04 | 0.12 |
| SCLA CCL | 0.06 | 0.09 | 0.60 | 0.24 | 0.03 | 0.09 |
| TELLINA | 0.02 | 0.04 | 0.20 | 0.08 | 0.01 | 0.03 |
| TFYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CESTRACCO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMA LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.14 | 0.11 | 1.40 | 0.55 | 0.03 | 0.09 |
| AMP:ITHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR CCLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UED:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EPOTIS B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROX:DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRUTMED | 0.24 | 0.09 | 2.40 | 0.94 | 0.05 | 0.15 |
| SYA SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CHAB DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG OR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MLNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PANG PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PIAN FAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PIAN OCC | 0.22 | 0.04 | 2.20 | 0.86 | 0.04 | 0.13 |
| PIAN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIN PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.06 | 0.05 | 0.60 | 0.24 | 0.02 | 0.05 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNC HE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LENGROCH | 0.04 | 0.05 | 0.40 | 0.16 | 0.04 | 0.12 |
| LEPTC CL | 0.04 | 0.05 | 0.40 | 0.16 | 0.04 | 0.12 |
| STPUNCUL | 0.02 | 0.04 | 0.20 | 0.08 | 0.02 | 0.06 |
| PHORLNU | 0.14 | 0.05 | 1.40 | 0.55 | 0.01 | 0.04 |
| AVMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANGP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCNI NGT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

254.60

32.94

TABLE 3 EICMASS (WEIGHT) SUMMARY

STATION 3 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FORAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FORAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMATEA | 0.66 | 0.80 | 6.60 | 8.33 | 0.66 | 0.33 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC GRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DERV ANN | 0.28 | 0.36 | 2.80 | 3.54 | 0.39 | 5.52 |
| ET LUNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXC VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.94 | 2.10 | 9.40 | 11.87 | 1.32 | 18.54 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCEKA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINGE | 0.06 | 0.09 | 0.60 | 0.76 | 0.08 | 1.13 |
| HEMIF BO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES IDAE | 0.04 | 0.05 | 0.40 | 0.51 | 0.06 | 0.79 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.08 | 0.13 | 0.80 | 1.01 | 0.11 | 1.53 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FROC | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| CAU LLEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PELCL MI | 0.04 | 0.05 | 0.40 | 0.51 | 0.06 | 0.79 |
| PHY CRD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT SIC | 1.28 | 0.72 | 12.80 | 16.16 | 1.79 | 25.25 |
| PCLY TUT | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| PCLYAC 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM EREV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIO RUB | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR INAE | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| MAPLC EL | 0.22 | 0.23 | 2.20 | 2.78 | 0.31 | 4.34 |
| LACN CIR | 0.08 | 0.08 | 0.80 | 1.01 | 0.11 | 1.53 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC UC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NGTD JLN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GWEN FUS | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| PECT GRA | 0.32 | 0.25 | 3.20 | 4.04 | 0.03 | 0.45 |
| PHYL PAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.14 | 0.15 | 1.40 | 1.77 | 0.20 | 2.76 |
| PCLYDRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRICLSP | 0.04 | 0.05 | 0.40 | 0.51 | 0.06 | 0.79 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS SAB L | 0.02 | 0.04 | 0.20 | 0.25 | 0.03 | 0.39 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.12 | 0.12 | 1.20 | 1.52 | 0.17 | 2.37 |
| TELE CUS | 0.10 | 0.10 | 1.00 | 1.26 | 0.01 | 0.14 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MIR TUE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENUPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBENIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 3 continued

STATION 3 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SLR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BARK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI TEN | 0.48 | 0.62 | 4.80 | 0.06 | 0.24 | 3.33 |
| MACCMA | 2.48 | 3.45 | 24.80 | 31.31 | 1.24 | 17.47 |
| MCCI REC | 0.06 | 0.13 | 0.60 | 0.76 | 0.03 | 0.42 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSCO COP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LGH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TYTA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CESTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GALANUS | 0.08 | 0.18 | 0.80 | 1.01 | 0.02 | 0.23 |
| NEB PUC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LENA LLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA LLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANP:ICAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANP:ITHE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACH:GLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CKN:PH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.02 | 0.04 | 0.20 | 0.25 | 0.00 | 0.06 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEP:IDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:IS: E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX:DAS | 0.02 | 0.04 | 0.20 | 0.25 | 0.00 | 0.06 |
| PRJ:CAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC ERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG OR | 0.20 | 0.28 | 2.00 | 2.53 | 0.04 | 0.56 |
| KLNI GUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR:PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH:UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTERID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCN:HE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECH:IDID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNGL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRCNID | 0.06 | 0.05 | 0.60 | 0.76 | 0.01 | 0.03 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANUP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLLS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLRI NUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

79.20

7.10

TABLE 4 BICMASS (WEIGHT) SUMMARY

STATION 4 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | NET WEIGHT/ SQ.M. | PCT OF TOTAL NET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACDIYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMENEA | 0.16 | 0.05 | 1.60 | 1.44 | 0.16 | 2.27 |
| NENATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIG CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DCRY ANN | 0.48 | 0.37 | 4.80 | 4.31 | 0.67 | 9.51 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.02 | 0.04 | 0.20 | 0.18 | 0.03 | 0.40 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC ABE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIF BC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES*IDAE | 0.18 | 0.11 | 1.80 | 1.62 | 0.25 | 3.57 |
| LEP LCNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBAINE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MICFC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.84 | 1.16 | 8.40 | 7.54 | 1.18 | 16.05 |
| NER PROG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLE MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY GRU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 1.42 | 0.86 | 14.20 | 12.75 | 1.99 | 28.14 |
| PLLY TUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNG 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNG 2 | 0.02 | 0.04 | 0.20 | 0.18 | 0.03 | 0.40 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLL IS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM GREY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIC RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP CAP | 0.02 | 0.04 | 0.20 | 0.18 | 0.03 | 0.40 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAFLE EL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LACN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC CC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC PCB | 0.04 | 0.09 | 0.40 | 0.36 | 0.06 | 0.79 |
| NEID TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| QREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.12 | 0.22 | 1.20 | 1.08 | 0.01 | 0.17 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYDCRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRICOSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*PCT H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*SR L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE EA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CCS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TEKE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPISYHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TLRBCNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 4 continued

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 1.60 | 1.74 | 16.00 | 14.36 | 0.80 | 11.33 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINUCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MACCMA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AHEM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EDCC CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LOR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TFYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| USTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB FUG | 0.44 | 0.27 | 4.40 | 3.95 | 0.09 | 1.25 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.10 | 0.00 | 1.00 | 0.90 | 0.02 | 0.28 |
| LIMN LIG | 0.40 | 0.35 | 4.00 | 3.59 | 0.03 | 1.13 |
| FAHA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACH CCLU | 0.02 | 0.04 | 0.20 | 0.18 | 0.00 | 0.06 |
| CORDPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEC:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:ISB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX:DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCTMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 3.18 | 4.17 | 31.80 | 28.55 | 0.64 | 9.00 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GFA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRC | 0.04 | 0.09 | 0.40 | 0.36 | 0.01 | 0.11 |
| CHAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG CR | 0.06 | 0.09 | 0.60 | 0.54 | 0.01 | 0.17 |
| MUNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.20 | 0.29 | 2.00 | 1.80 | 0.04 | 0.57 |
| FINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FINN CCC | 0.26 | 0.09 | 2.60 | 2.33 | 0.05 | 0.74 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYHA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.02 | 0.04 | 0.20 | 0.18 | 0.01 | 0.17 |
| PHYCNC ME | 1.52 | 3.40 | 15.20 | 13.64 | 0.91 | 12.91 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LENDRCCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHORCNID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPC FLX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHGLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCHI NGT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TCTAL

111.40

7.06

TABLE 5 BICMASS (WEIGHT) SUMMARY

STATION 5 APR-MAY 25-7 1975 AND JAN 22 1976 5 FALLS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WT. / SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT. / SQ.M. |
|------------|----------------------|-----------------------|----------------------|-----------------------------|----------------------|---------------------------------|
| FCRAW 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAW 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.28 | 0.44 | 2.80 | 5.41 | 0.28 | 5.08 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC ERN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECRY ANN | 0.10 | 0.00 | 1.00 | 1.93 | 0.14 | 2.54 |
| ET LONGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXD VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.58 | 1.30 | 5.80 | 11.20 | 0.51 | 18.73 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.08 | 0.04 | 0.80 | 1.54 | 0.11 | 2.03 |
| HEMIP HO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES*IDAE | 0.10 | 0.00 | 1.00 | 1.93 | 0.14 | 2.54 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMERINE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYTS1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYTS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 2.10 | 4.70 | 21.00 | 40.54 | 2.94 | 53.32 |
| NER FRCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ONU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOLE MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY GRC | 0.02 | 0.04 | 0.20 | 0.39 | 0.03 | 0.51 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.08 | 0.06 | 0.80 | 1.54 | 0.11 | 2.03 |
| PCLY TUT | 0.06 | 0.05 | 0.60 | 1.16 | 0.08 | 1.52 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIC*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREN DE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM BREV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIO RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAFLC EL | 0.02 | 0.04 | 0.20 | 0.39 | 0.03 | 0.51 |
| LACN CIR | 0.08 | 0.08 | 0.80 | 1.54 | 0.11 | 2.03 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC ROB | 0.18 | 0.35 | 1.80 | 3.47 | 0.25 | 4.57 |
| NEID TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FECT GRA | 0.04 | 0.05 | 0.40 | 0.77 | 0.00 | 0.07 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.04 | 0.05 | 0.40 | 0.77 | 0.06 | 1.02 |
| PCLYDORA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRIGNUSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*PGT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*SAU L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL FLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CCS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TEM*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THIC CLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.02 | 0.04 | 0.20 | 0.39 | 0.03 | 0.51 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITR TUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MLN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GENUPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TUNBENIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 5 continued

| STATION 5 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|---|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 0.04 | 0.09 | 0.40 | 0.77 | 0.02 | 0.36 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VACOMA | 0.10 | 0.14 | 1.00 | 1.93 | 0.05 | 0.91 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VLSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA ARCN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCO CLP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LGR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPEICAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPEIMAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.02 | 0.04 | 0.20 | 0.39 | 0.00 | 0.07 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMN LIG | 0.02 | 0.04 | 0.20 | 0.39 | 0.00 | 0.07 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP IDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCRCFH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLIS H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOXIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROTOME | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SMOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG CR | 1.08 | 1.21 | 10.80 | 20.65 | 0.22 | 3.92 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALBU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.04 | 0.05 | 0.40 | 0.77 | 0.01 | 0.15 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN TUB | 0.02 | 0.04 | 0.20 | 0.39 | 0.00 | 0.07 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLEF AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNO HL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTO CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHORCNO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH HLX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANUP PUR | 0.08 | 0.12 | 0.80 | 1.54 | 0.08 | 1.45 |
| PHCLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERI NCT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:FAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | | | 51.80 | | 5.51 | |

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TABLE 6 BICMASS (WEIGHT) SUMMARY

STATION 6 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.06 | 0.09 | 0.60 | 1.02 | 0.06 | 0.96 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIG CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DRY ANN | 0.32 | 0.19 | 3.20 | 5.46 | 0.45 | 7.14 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.94 | 1.61 | 9.80 | 16.72 | 1.37 | 21.87 |
| GLYC CAP | 0.06 | 0.13 | 0.60 | 1.02 | 0.08 | 1.34 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.06 | 0.05 | 0.60 | 1.02 | 0.08 | 1.34 |
| HEMIF OD | 0.04 | 0.05 | 0.40 | 0.68 | 0.06 | 0.89 |
| HES IDAE | 0.16 | 0.11 | 1.60 | 2.71 | 0.22 | 3.57 |
| LEP LCNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RICH NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER PROC | 0.04 | 0.05 | 0.40 | 0.68 | 0.06 | 0.89 |
| OKU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLLG PI | 0.22 | 0.04 | 2.20 | 3.64 | 0.03 | 0.45 |
| PHY GRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 2.14 | 1.75 | 21.80 | 37.20 | 3.05 | 48.65 |
| PCLY TUI | 0.02 | 0.04 | 0.20 | 0.34 | 0.03 | 0.45 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AEM EHEV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXID RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HALLC EL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LADN CIR | 0.10 | 0.17 | 1.00 | 1.71 | 0.14 | 2.23 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KAL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC DC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCIG IEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UNEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.08 | 0.18 | 0.80 | 1.37 | 0.01 | 0.13 |
| PHYL POC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYDANA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRIGUSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSIPCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSISAM L | 0.02 | 0.04 | 0.20 | 0.34 | 0.03 | 0.45 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SHIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREB BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIYL PLU | 0.02 | 0.04 | 0.20 | 0.34 | 0.03 | 0.45 |
| TELE CCS | 0.08 | 0.18 | 0.80 | 1.37 | 0.01 | 0.13 |
| TEHE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TEH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.04 | 0.09 | 0.40 | 0.68 | 0.03 | 0.45 |
| LENOFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPSTMGB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBLNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 6 continued

| STATION 6 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|---|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.02 | 0.04 | 0.20 | 0.33 | 0.01 | 0.16 |
| MAGWA | 0.52 | 0.81 | 5.20 | 8.87 | 0.25 | 4.14 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TFYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| CSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.20 | 0.25 | 2.00 | 3.41 | 0.04 | 0.64 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.06 | 0.09 | 0.60 | 1.02 | 0.01 | 0.19 |
| LIMN LIG | 0.06 | 0.09 | 0.60 | 1.02 | 0.01 | 0.19 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ITCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.02 | 0.04 | 0.20 | 0.34 | 0.00 | 0.06 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GED:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FFOTIS_B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCX:DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRUCHEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FEMIG OR | 0.58 | 0.46 | 5.80 | 9.90 | 0.12 | 1.85 |
| MLNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OREG GRA | 0.04 | 0.09 | 0.40 | 0.65 | 0.01 | 0.13 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PANC PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SEYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNO PE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENURCCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTO CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFORCNID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANUP PUR | 0.08 | 0.18 | 0.80 | 1.37 | 0.08 | 1.28 |
| PHCLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:PAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| TOTAL | | | 58.60 | | 6.27 | |

TABLE 7 EICMASS (WEIGHT) SUMMARY

STATION 7 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.52 | 1.05 | 5.20 | 6.83 | 0.52 | 6.40 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DDRY ANN | 0.02 | 0.04 | 0.20 | 0.26 | 0.03 | 0.34 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 1.00 | 2.24 | 10.00 | 13.23 | 1.40 | 17.22 |
| GLYC CAP | 0.08 | 0.18 | 0.80 | 1.06 | 0.11 | 1.33 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.10 | 0.07 | 1.00 | 1.32 | 0.14 | 1.72 |
| FEMIP RD | 0.06 | 0.09 | 0.60 | 0.79 | 0.08 | 1.03 |
| FESTIDAE | 0.02 | 0.04 | 0.20 | 0.26 | 0.03 | 0.34 |
| LEP LUNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.36 | 0.31 | 3.60 | 4.76 | 0.50 | 6.20 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHIYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FROC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLC MI | 0.06 | 0.05 | 0.60 | 0.79 | 0.08 | 1.03 |
| PHY GRC | 0.44 | 0.15 | 4.40 | 5.82 | 0.62 | 7.53 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.22 | 0.16 | 2.20 | 2.91 | 0.31 | 3.79 |
| PCLY TUT | 0.06 | 0.09 | 0.60 | 0.79 | 0.08 | 1.03 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRGT GNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIC IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IRM EREY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIL RUB | 0.32 | 0.22 | 3.20 | 4.23 | 0.45 | 5.51 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIN INAE | 0.02 | 0.04 | 0.20 | 0.26 | 0.03 | 0.34 |
| HAPLC EL | 0.20 | 0.19 | 2.00 | 2.65 | 0.28 | 3.44 |
| LACN CIR | 0.50 | 0.16 | 5.00 | 6.61 | 0.70 | 8.61 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL IDAE | 0.32 | 0.33 | 3.20 | 4.23 | 0.45 | 5.51 |
| MESJ TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC ROD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NETO TEN | 0.10 | 0.12 | 1.00 | 1.32 | 0.14 | 1.72 |
| CFREL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PELT GRA | 0.10 | 0.17 | 1.00 | 1.32 | 0.01 | 0.12 |
| PHYL PRO | 0.04 | 0.09 | 0.40 | 0.53 | 0.00 | 0.03 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.12 | 0.08 | 1.20 | 1.59 | 0.17 | 2.07 |
| PCLYCIRA | 0.02 | 0.04 | 0.20 | 0.26 | 0.03 | 0.34 |
| PRICNGSP | 0.62 | 0.40 | 6.20 | 8.20 | 0.87 | 10.63 |
| PSIPGT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEASAB L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEE BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.04 | 0.09 | 0.40 | 0.53 | 0.06 | 0.69 |
| TELE CCS | 0.10 | 0.17 | 1.00 | 1.32 | 0.01 | 0.12 |
| TERE STR | 0.04 | 0.09 | 0.40 | 0.53 | 0.06 | 0.69 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MLN | 0.16 | 0.22 | 1.60 | 2.12 | 0.11 | 1.38 |
| GENOPUTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GFISTHCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBONIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 7 continued

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SLT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.64 | 0.22 | 6.40 | 8.47 | 0.32 | 3.94 |
| MACOMA | 0.22 | 0.22 | 2.20 | 2.91 | 0.11 | 1.35 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCDC CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| ESTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.04 | 0.09 | 0.40 | 0.53 | 0.01 | 0.10 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:THOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCR:PH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DEC:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHU:IS E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHO:IDAE | 0.06 | 0.05 | 0.60 | 0.79 | 0.01 | 0.15 |
| PRO:CMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BFA | 0.08 | 0.11 | 0.80 | 1.06 | 0.02 | 0.20 |
| CANC GRA | 0.06 | 0.13 | 0.60 | 0.79 | 0.01 | 0.15 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRAN DAL | 0.18 | 0.35 | 1.80 | 2.33 | 0.04 | 0.44 |
| EUALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG CR | 0.28 | 0.52 | 2.80 | 3.70 | 0.06 | 0.60 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREG GRA | 0.04 | 0.09 | 0.40 | 0.53 | 0.01 | 0.10 |
| PAG ALCU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.02 | 0.04 | 0.20 | 0.26 | 0.00 | 0.05 |
| PINN FAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| AMP:J UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNG PE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINGID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDRUCH | 0.02 | 0.04 | 0.20 | 0.26 | 0.02 | 0.25 |
| LEFTC CL | 0.04 | 0.05 | 0.40 | 0.53 | 0.04 | 0.49 |
| | | | | | | |
| SIPUNCUL | 0.22 | 0.49 | 2.20 | 2.91 | 0.22 | 2.71 |
| PCGR:LD | 0.02 | 0.04 | 0.20 | 0.26 | 0.00 | 0.02 |
| AMMO HELX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANCP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRO:IS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | | | 75.60 | | 8.13 | |

TABLE 8 EIGMASS (WEIGHT) SUMMARY

STATION 8 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FORAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FORAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.08 | 0.13 | 0.80 | 0.73 | 0.08 | 0.86 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OCRV ANN | 0.32 | 0.18 | 3.20 | 3.13 | 0.45 | 4.83 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXG VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 1.70 | 2.57 | 17.00 | 16.63 | 2.38 | 25.64 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.14 | 0.11 | 1.40 | 1.37 | 0.20 | 2.11 |
| HEMIF UD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES IDAE | 0.18 | 0.04 | 1.80 | 1.76 | 0.25 | 2.71 |
| LCP LUNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.18 | 0.08 | 1.80 | 1.76 | 0.25 | 2.71 |
| MICRO NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER PROC | 0.02 | 0.04 | 0.20 | 0.20 | 0.03 | 0.30 |
| CMU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHLG MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY CRU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 1.34 | 1.00 | 13.40 | 13.11 | 1.88 | 20.21 |
| PCLY TUT | 0.04 | 0.09 | 0.40 | 0.39 | 0.06 | 0.60 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREN UL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM BRLY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIC RUB | 0.02 | 0.04 | 0.20 | 0.20 | 0.03 | 0.30 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAPLE EL | 0.04 | 0.09 | 0.40 | 0.39 | 0.06 | 0.60 |
| LACN CIR | 0.12 | 0.11 | 1.20 | 1.17 | 0.17 | 1.81 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MESU TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC DC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC FCB | 0.22 | 0.49 | 2.20 | 2.15 | 0.31 | 3.32 |
| NCTO IEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CWEN FLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.06 | 0.13 | 0.60 | 0.59 | 0.01 | 0.06 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIHR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYDGRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHIGDOSP | 0.04 | 0.05 | 0.40 | 0.39 | 0.06 | 0.60 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS SAB L | 0.02 | 0.04 | 0.20 | 0.20 | 0.03 | 0.30 |
| SAB IDAE | 0.02 | 0.04 | 0.20 | 0.20 | 0.03 | 0.30 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.10 | 0.12 | 1.00 | 0.99 | 0.14 | 1.51 |
| TELE CUS | 0.04 | 0.09 | 0.40 | 0.39 | 0.06 | 0.60 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENOPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LPISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TAKSUNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 8 continued

STATION B APR-MAY 25-7, 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SLT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINOCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI TEN | 0.06 | 0.13 | 0.60 | 0.51 | 0.03 | 0.32 |
| MCCMA | 4.88 | 4.8E | 48.80 | 47.75 | 2.34 | 26.28 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCDI LEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SELA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELL INA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THYA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPELICAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPEIMAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.04 | 0.05 | 0.40 | 0.39 | 0.01 | 0.09 |
| CLM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PANA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPIDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPIHJE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACH COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CGRUPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAMIDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| QEDIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIDAE | 0.06 | 0.0E | 0.60 | 0.59 | 0.01 | 0.13 |
| PROTOMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEWIG CR | 0.10 | 0.14 | 1.00 | 0.98 | 0.02 | 0.22 |
| HUNT OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CHES GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG EER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.02 | 0.04 | 0.20 | 0.20 | 0.00 | 0.04 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTERUID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RYCNC PE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DEMFROGH | 0.10 | 0.14 | 1.00 | 0.98 | 0.10 | 1.03 |
| LEPTIC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIRIACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHORONID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMMO HLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP PUR | 0.28 | 0.63 | 2.80 | 2.74 | 0.28 | 3.02 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRI NCT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TCTAL

102.20

9.28

TABLE 9 EICMASS (WEIGHT) SUMMARY

STATION 9 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.46 | 0.97 | 4.60 | 4.82 | 0.46 | 5.03 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LONGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXC VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 1.14 | 1.72 | 11.40 | 11.95 | 1.60 | 17.45 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.04 | 0.05 | 0.40 | 0.42 | 0.06 | 0.61 |
| HEMIF BU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.18 | 0.19 | 1.80 | 1.89 | 0.25 | 2.76 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 0.80 | 0.88 | 8.00 | 8.39 | 1.12 | 12.25 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FROC | 0.04 | 0.05 | 0.40 | 0.42 | 0.06 | 0.61 |
| GNU ELEG | 0.26 | 0.23 | 2.60 | 2.73 | 0.36 | 3.93 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCLC MI | 0.04 | 0.05 | 0.40 | 0.42 | 0.06 | 0.61 |
| PHY GRO | 0.06 | 0.09 | 0.60 | 0.63 | 0.08 | 0.92 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.26 | 0.27 | 2.60 | 2.73 | 0.36 | 3.93 |
| PCLY TUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNG 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNG 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN UL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EF FRAG | 0.06 | 0.13 | 0.60 | 0.63 | 0.08 | 0.92 |
| AMPHA AR | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.31 |
| AMPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM GREY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIC RUB | 0.14 | 0.19 | 1.40 | 1.47 | 0.20 | 2.14 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAFLE EL | 0.06 | 0.05 | 0.60 | 0.63 | 0.08 | 0.92 |
| LACN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NAL*IDAE | 0.86 | 0.75 | 8.60 | 9.01 | 1.20 | 13.17 |
| MESU TAY | 0.32 | 0.47 | 3.20 | 3.35 | 0.45 | 4.90 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC PCB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUID TEN | 0.10 | 0.12 | 1.00 | 1.03 | 0.14 | 1.53 |
| OPHEL LI | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.31 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OREN FUS | 0.12 | 0.13 | 1.20 | 1.26 | 0.17 | 1.84 |
| PECT GRA | 0.12 | 0.12 | 1.20 | 1.26 | 0.01 | 0.13 |
| PHYL PRC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.31 |
| EGLYDDRA | 0.04 | 0.05 | 0.40 | 0.42 | 0.06 | 0.61 |
| PRICNOSP | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.31 |
| PS*PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*SAJ L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREB UA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CCS | 0.12 | 0.08 | 1.20 | 1.26 | 0.01 | 0.13 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.04 | 0.05 | 0.40 | 0.42 | 0.03 | 0.31 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENOFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFISTHCB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 9 continued

| STATION 9 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|---|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.50 | 0.12 | 5.00 | 5.24 | 0.25 | 2.73 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.06 | 0.13 | 0.50 | 0.63 | 0.03 | 0.33 |
| LUCEI AND | 0.22 | 0.04 | 0.20 | 0.21 | 0.01 | 0.11 |
| LUCI TEN | 1.56 | 0.93 | 15.60 | 16.35 | 0.76 | 8.53 |
| MACOMA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCOI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.14 | 0.09 | 1.40 | 1.47 | 0.07 | 0.77 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECQU COP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FSEP LCR | 0.10 | 0.10 | 1.00 | 1.05 | 0.05 | 0.55 |
| SCLA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.02 | 0.04 | 0.20 | 0.21 | 0.01 | 0.11 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.70 | 0.75 | 7.00 | 7.34 | 0.35 | 3.53 |
| AMP:ITHE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCRGPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:ICEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DEC:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS:O | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCX:DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRUTMED | 0.08 | 0.05 | 0.80 | 0.84 | 0.02 | 0.17 |
| SYA SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG OR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PANC PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.04 | 0.05 | 0.40 | 0.42 | 0.01 | 0.09 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYNA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.14 | 0.21 | 1.40 | 1.47 | 0.04 | 0.46 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTERUID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RYCNU FE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.10 | 0.17 | 1.00 | 1.05 | 0.10 | 1.09 |
| LEPTE CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHORONID | 0.06 | 0.05 | 0.60 | 0.63 | 0.01 | 0.07 |
| AMNC HEX | 0.68 | 1.52 | 6.80 | 7.13 | 0.08 | 7.44 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FFGLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TCTAL

95.40

9.14

TABLE 10 EIDMASS (WEIGHT) SUMMARY

STATION 10 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXGN CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCHAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCHAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACCTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMHTEA | 1.16 | 2.59 | 11.60 | 4.82 | 1.16 | 3.80 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIO CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.32 | 0.22 | 3.20 | 1.33 | 0.45 | 1.47 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINUE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIF BO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LFP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLMBRINE | 0.06 | 0.05 | 0.60 | 0.25 | 0.08 | 0.28 |
| MICR NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHIYSI | 0.18 | 0.12 | 1.80 | 0.75 | 0.25 | 0.83 |
| NEPHIYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEM EKAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER PROC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNU ELEG | 1.72 | 2.20 | 17.20 | 7.14 | 2.41 | 7.90 |
| PALE BLL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFCLC MI | 0.12 | 0.04 | 1.20 | 0.50 | 0.17 | 0.55 |
| PHY GRO | 0.22 | 0.29 | 2.20 | 0.91 | 0.31 | 1.01 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT SIC | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLY TUT | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| PCLYND 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYND 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIGICAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIMEN GS | 1.20 | 2.08 | 12.00 | 4.98 | 1.68 | 5.51 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.02 | 0.04 | 0.20 | 0.08 | 0.03 | 0.09 |
| AMPHDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM EREY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARID PUB | 1.38 | 0.15 | 13.80 | 5.73 | 1.93 | 6.34 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIX IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAPLC EL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LADN CIR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL IDAE | 0.06 | 0.05 | 0.60 | 0.25 | 0.08 | 0.28 |
| MESO TAY | 14.60 | 5.82 | 146.00 | 60.63 | 20.44 | 67.03 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTO TEN | 0.14 | 0.05 | 1.40 | 0.58 | 0.20 | 0.64 |
| OPHEL LI | 0.06 | 0.09 | 0.60 | 0.25 | 0.08 | 0.28 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHYL PRO | 0.34 | 0.65 | 3.40 | 1.41 | 0.03 | 0.11 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRK | 0.04 | 0.05 | 0.40 | 0.17 | 0.06 | 0.18 |
| PCLYDRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRIONUSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS SAB L | 0.06 | 0.05 | 0.60 | 0.25 | 0.08 | 0.28 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE EA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE COS | 0.46 | 0.34 | 4.60 | 1.91 | 0.05 | 0.15 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.04 | 0.05 | 0.40 | 0.17 | 0.03 | 0.09 |
| GAST 1 | 0.04 | 0.05 | 0.40 | 0.17 | 0.03 | 0.09 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.12 | 0.1E | 1.20 | 0.50 | 0.08 | 0.28 |
| LENOPUTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TUBECNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYPLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 10 continued

| STATION 10 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|-----|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. | |
| JACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MACOMA | 0.46 | 0.29 | 4.60 | 1.91 | 0.23 | 0.75 | |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NYS TUMI | 0.28 | 0.08 | 2.80 | 1.16 | 0.14 | 0.46 | |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCG CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LDR | 0.08 | 0.08 | 0.80 | 0.33 | 0.04 | 0.13 | |
| SCLA COL | 0.10 | 0.10 | 1.00 | 0.42 | 0.05 | 0.16 | |
| TELLINA | 0.36 | 0.15 | 3.60 | 1.50 | 0.18 | 0.59 | |
| TYTA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEG FUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUR 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEFT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LINA LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMELISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR CGLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| QED:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHD:IS:O | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX:DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRGTEMED | 0.06 | 0.05 | 0.60 | 0.25 | 0.01 | 0.04 | |
| SYN SHUE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BKA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.04 | 0.09 | 0.40 | 0.17 | 0.01 | 0.03 | |
| CANC PHO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KLNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PIAN GCC | 0.10 | 0.00 | 1.00 | 0.42 | 0.02 | 0.07 | |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.06 | 0.00 | 0.60 | 0.25 | 0.02 | 0.06 | |
| GPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNC HE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINODI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.04 | 0.09 | 0.40 | 0.17 | 0.04 | 0.13 | |
| LEPTO CL | 0.06 | 0.13 | 0.60 | 0.25 | 0.06 | 0.20 | |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHURONID | 0.06 | 0.09 | 0.60 | 0.25 | 0.01 | 0.02 | |
| AMMO HELA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLRI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | | | 240.80 | | 30.49 | | |

TABLE 11 EICMASS (WEIGHT) SUMMARY

| STATION 11 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.16 | 0.30 | 1.60 | 0.37 | 0.16 | 0.82 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIG CRN | 0.34 | 0.65 | 3.40 | 0.73 | 0.48 | 2.43 |
| DCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.22 | 0.18 | 2.20 | 0.51 | 0.31 | 1.57 |
| EXG VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.08 | 0.13 | 0.60 | 0.14 | 0.08 | 0.43 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINGE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIF BO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LCNG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LWBHINE | 0.32 | 0.16 | 3.20 | 0.74 | 0.45 | 2.28 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYSI | 0.08 | 0.08 | 0.80 | 0.18 | 0.11 | 0.57 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER PROC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ONU ELEG | 0.88 | 1.48 | 8.80 | 2.03 | 1.23 | 6.24 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFCLC MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY GRO | 0.22 | 0.24 | 2.20 | 0.51 | 0.31 | 1.57 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT SIC | 0.08 | 0.13 | 0.80 | 0.18 | 0.11 | 0.57 |
| PCLY TUT | 0.10 | 0.07 | 1.00 | 0.23 | 0.14 | 0.71 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHN BE | 0.54 | 0.75 | 5.40 | 1.24 | 0.76 | 3.86 |
| SYLLIUAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPH*DAE | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| ARM EREV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIO RUB | 1.14 | 0.74 | 11.40 | 2.63 | 1.60 | 8.14 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAFLO EL | 0.06 | 0.05 | 0.60 | 0.14 | 0.08 | 0.43 |
| LAON CIR | 0.16 | 0.15 | 1.60 | 0.37 | 0.22 | 1.14 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL*IDAE | 0.14 | 0.26 | 1.40 | 0.32 | 0.20 | 1.00 |
| MESO TAY | 5.08 | 5.31 | 50.80 | 14.01 | 8.51 | 43.41 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NGIO TEN | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| OPHEL LI | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| OPH*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OKEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.14 | 0.17 | 1.40 | 0.32 | 0.01 | 0.07 |
| PHYL PRO | 28.82 | 15.51 | 288.20 | 66.41 | 2.83 | 14.70 |
| PISTA CR | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| PCLYCIRR | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| PCLYDGRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHICNOSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*ICT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*SAB L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREB EA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CCS | 0.48 | 0.18 | 4.80 | 1.11 | 0.05 | 0.24 |
| TRE STR | 0.20 | 0.45 | 2.00 | 0.46 | 0.28 | 1.43 |
| TER*IDAE | 0.02 | 0.04 | 0.20 | 0.05 | 0.03 | 0.14 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.06 | 0.13 | 0.60 | 0.14 | 0.04 | 0.21 |
| LENGPOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UPISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURELNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FELYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 11 continued

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.42 | 0.65 | 4.20 | 0.97 | 0.21 | 1.07 |
| AXIN SER | 0.08 | 0.08 | 0.80 | 0.18 | 0.04 | 0.20 |
| BANK SBT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.04 | 0.09 | 0.40 | 0.09 | 0.02 | 0.10 |
| LCCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LCCI TEN | 0.02 | 0.04 | 0.20 | 0.05 | 0.01 | 0.05 |
| PACCPA | 0.66 | 0.83 | 6.60 | 1.52 | 0.33 | 1.68 |
| PCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYA ARCN | 0.78 | 1.74 | 7.80 | 1.80 | 0.39 | 1.99 |
| MYS TUMI | 0.06 | 0.05 | 0.60 | 0.14 | 0.03 | 0.15 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCDD CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LOR | 0.02 | 0.04 | 0.20 | 0.05 | 0.01 | 0.05 |
| SCLA CCL | 0.12 | 0.22 | 1.20 | 0.28 | 0.06 | 0.31 |
| TELLINA | 0.18 | 0.11 | 1.80 | 0.41 | 0.09 | 0.46 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPETCAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPEIAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LINN-LIC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPIDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPITHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR CCLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM IDLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HELI TA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GED IDAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOXIDAE | 0.12 | 0.08 | 1.20 | 0.28 | 0.02 | 0.12 |
| PROTCMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHUE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BIA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.02 |
| CANC PRD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG OR | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.02 |
| MUNI QUA | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.02 |
| GREG GRA | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.02 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG EER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.06 | 0.05 | 0.60 | 0.14 | 0.01 | 0.06 |
| PINN FAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.12 | 0.11 | 1.20 | 0.28 | 0.02 | 0.12 |
| PINN TUN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.02 |
| SPIR PRI | 0.04 | 0.05 | 0.40 | 0.09 | 0.01 | 0.04 |
| AMPHI UR | 0.02 | 0.04 | 0.20 | 0.05 | 0.01 | 0.03 |
| GPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNU FE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.08 | 0.13 | 0.80 | 0.18 | 0.03 | 0.41 |
| LEPTIC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIRIUNCUL | 0.06 | 0.09 | 0.60 | 0.14 | 0.02 | 0.31 |
| PHORLNIID | 0.02 | 0.04 | 0.20 | 0.05 | 0.00 | 0.01 |
| AMPHI MEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANUP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRI NUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:CLL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TCTAL

434.00

19.61

TABLE 12 EICRESS (WEIGHT) SUMMARY

| STATION 12 APR-MAY 25-7 1975 AND JAN 22 1976 5 HALLS | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| FCRAM 1 | 2.08 | 1.21 | 20.80 | 21.89 | 0.21 | 3.39 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.24 | 0.21 | 2.40 | 2.53 | 0.24 | 3.91 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DCRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ELL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.12 | 0.27 | 1.20 | 1.26 | 0.17 | 2.73 |
| GLYC CAP | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.46 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIP GD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES' IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.36 | 0.23 | 3.60 | 3.79 | 0.50 | 8.20 |
| PLGR NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLPHTYSI | 0.24 | 1.33 | 2.40 | 2.53 | 1.32 | 21.42 |
| NLPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FRCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNU ELEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECLC MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY GRG | 0.26 | 0.33 | 2.60 | 2.74 | 0.36 | 5.92 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.16 | 0.26 | 1.60 | 1.63 | 0.22 | 3.63 |
| PCLY TUT | 0.06 | 0.05 | 0.60 | 0.63 | 0.08 | 1.37 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG' IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIMEN BE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH' DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM ENCV | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.46 |
| AXIO HUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP' IDAE | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.46 |
| CIR' IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAPLC LL | 0.06 | 0.05 | 0.60 | 0.63 | 0.08 | 1.37 |
| LAUN CIR | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.46 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL' IDAE | 0.14 | 0.05 | 1.40 | 1.47 | 0.20 | 3.19 |
| MESO TAY | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEU KOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTO TEN | 0.10 | 0.09 | 1.00 | 1.09 | 0.25 | 4.19 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPH' IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| QWEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.12 | 0.13 | 1.20 | 1.26 | 0.01 | 0.20 |
| PHYL PRG | 0.06 | 0.13 | 0.60 | 0.63 | 0.01 | 0.10 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIHR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYDDRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRIGNUSP | 0.12 | 0.04 | 1.20 | 1.26 | 0.17 | 2.73 |
| PS' PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS' SAB L | 0.04 | 0.05 | 0.40 | 0.42 | 0.06 | 0.91 |
| SAB' IDAE | 0.04 | 0.09 | 0.40 | 0.42 | 0.06 | 0.91 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TLE COS | 0.44 | 0.46 | 4.40 | 4.63 | 0.34 | 5.72 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER' IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.02 | 0.04 | 0.20 | 0.21 | 0.03 | 0.46 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.12 | 0.27 | 1.20 | 1.26 | 0.08 | 1.37 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENCFCTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPIS THJB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURIGNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 12 continued

| STATION 12 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.50 | 1.12 | 5.00 | 5.20 | 0.25 | 4.07 |
| AXIN SLK | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINGCAR | 0.26 | 0.48 | 2.60 | 2.74 | 0.13 | 2.12 |
| LLCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI TEN | 0.40 | 0.23 | 4.00 | 4.21 | 0.20 | 3.26 |
| MACOMA | 1.50 | 0.67 | 15.00 | 15.79 | 0.75 | 12.21 |
| MOI KLC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.12 | 0.27 | 1.20 | 1.25 | 0.06 | 0.98 |
| MYS TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCC CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LUR | 0.02 | 0.04 | 0.20 | 0.21 | 0.01 | 0.16 |
| SCLA COL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.06 | 0.13 | 0.60 | 0.63 | 0.03 | 0.49 |
| THYA FLE | 0.24 | 0.05 | 2.40 | 2.53 | 0.12 | 1.95 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.04 | 0.05 | 0.40 | 0.42 | 0.01 | 0.13 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPYIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPYISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPYIIDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR CCLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM'IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEC'IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHUTIS B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFOX'IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROTCMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHJE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.06 | 0.13 | 0.60 | 0.63 | 0.01 | 0.20 |
| EUALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG CR | 0.08 | 0.18 | 0.80 | 0.84 | 0.02 | 0.26 |
| MUNI OJA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.20 | 0.45 | 2.00 | 2.11 | 0.04 | 0.65 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.04 | 0.09 | 0.40 | 0.42 | 0.01 | 0.13 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN CCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PTCNL FE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BENDROCH | 0.04 | 0.05 | 0.40 | 0.42 | 0.04 | 0.65 |
| LEPTC CL | 0.16 | 0.30 | 1.60 | 1.68 | 0.16 | 2.60 |
| SIPUNCUL | 0.10 | 0.14 | 1.00 | 1.05 | 0.10 | 1.63 |
| PHORCNID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRI NOT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.04 | 0.09 | 0.40 | 0.42 | 0.00 | 0.07 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | | | 95.00 | | 6.14 | |

TABLE 13 BIOMASS (WEIGHT) SUMMARY

STATION 13 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ 50.M. | PCT OF TOTAL WET WT./50.M. | DRY WEIGHT/ 50.M. | PCT OF TOTAL DRY WT./50.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACGYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.06 | 0.13 | 0.60 | 0.26 | 0.06 | 0.40 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC ERN | 0.10 | 0.22 | 1.00 | 0.43 | 0.14 | 0.93 |
| OLYV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.16 | 0.15 | 1.60 | 0.68 | 0.22 | 1.49 |
| EXG VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCAM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIP BO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LCNG | 0.18 | 0.27 | 1.80 | 0.77 | 0.25 | 1.67 |
| LUMBRINE | 0.48 | 0.36 | 4.80 | 2.05 | 0.67 | 4.46 |
| MYRICA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYS1 | 0.14 | 0.05 | 1.40 | 0.60 | 0.20 | 1.30 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER PROO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAG ELEG | 2.54 | 2.71 | 25.40 | 10.85 | 3.56 | 23.58 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHCLC MI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHY GRJ | 0.10 | 0.17 | 1.00 | 0.43 | 0.14 | 0.93 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT DIC | 0.06 | 0.05 | 0.60 | 0.26 | 0.08 | 0.56 |
| PCLY TUT | 0.06 | 0.05 | 0.60 | 0.26 | 0.08 | 0.56 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREN CE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM GREV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIC RUB | 0.38 | 0.40 | 3.80 | 1.62 | 0.53 | 3.53 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HAFLC EL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LACK CIR | 0.14 | 0.15 | 1.40 | 0.60 | 0.20 | 1.30 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAL IDAE | 0.12 | 0.11 | 1.20 | 0.51 | 0.17 | 1.11 |
| PELO TAY | 3.16 | 1.31 | 31.60 | 13.50 | 4.42 | 29.33 |
| MYRIC CC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC FCB | 0.74 | 1.65 | 7.40 | 3.16 | 1.04 | 6.87 |
| NUO TEN | 0.10 | 0.07 | 1.00 | 0.43 | 0.14 | 0.93 |
| OPHEL LI | 0.02 | 0.04 | 0.20 | 0.09 | 0.03 | 0.19 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.08 | 0.13 | 0.80 | 0.34 | 0.01 | 0.05 |
| PHYL PRO | 10.52 | 6.86 | 105.20 | 44.36 | 1.05 | 6.94 |
| PISTA CR | 0.04 | 0.05 | 0.40 | 0.17 | 0.06 | 0.37 |
| PCLYCIRK | 0.04 | 0.09 | 0.40 | 0.17 | 0.06 | 0.37 |
| PCLYDORA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRICAGSP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS SAB L | 0.02 | 0.04 | 0.20 | 0.09 | 0.03 | 0.19 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.02 | 0.04 | 0.20 | 0.09 | 0.03 | 0.19 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREU BA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE CC | 0.34 | 0.50 | 3.40 | 1.42 | 0.04 | 0.25 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.08 | 0.18 | 0.80 | 0.34 | 0.11 | 0.74 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITR TUE | 0.06 | 0.13 | 0.60 | 0.26 | 0.04 | 0.28 |
| NASS MEN | 0.02 | 0.04 | 0.20 | 0.09 | 0.01 | 0.09 |
| CENCFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CFISTHCU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBENIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 13 continued

STATION 13 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 1.42 | 1.21 | 14.20 | 6.07 | 0.71 | 4.71 |
| AAXN SLR | 0.04 | 0.05 | 0.40 | 0.17 | 0.02 | 0.13 |
| BANK SLT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.76 | 1.70 | 7.60 | 3.25 | 0.38 | 2.52 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCL ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LLCI TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MACUMA | 0.40 | 0.25 | 4.00 | 1.71 | 0.20 | 1.33 |
| MCDI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA ARGN | 0.50 | 1.12 | 5.00 | 2.14 | 0.25 | 1.66 |
| NYS TUMI | 0.06 | 0.05 | 0.60 | 0.26 | 0.03 | 0.20 |
| NLC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PDDO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEF LCR | 0.02 | 0.04 | 0.20 | 0.09 | 0.01 | 0.07 |
| SCLA CCL | 0.04 | 0.09 | 0.40 | 0.17 | 0.02 | 0.13 |
| TELLINA | 0.04 | 0.09 | 0.40 | 0.17 | 0.02 | 0.13 |
| THYA FLE | 0.06 | 0.09 | 0.60 | 0.26 | 0.03 | 0.20 |
| CESTRACCO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB FUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMA LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| APFIMDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCRUPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| JED:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX:DAE | 0.06 | 0.05 | 0.60 | 0.26 | 0.01 | 0.08 |
| PROTCMEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC BRA | 0.02 | 0.04 | 0.20 | 0.09 | 0.00 | 0.03 |
| CANC GRA | 0.02 | 0.04 | 0.20 | 0.09 | 0.00 | 0.03 |
| CANC PAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECALLS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FERIG CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HLAI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OREG GNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALBU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.02 | 0.04 | 0.20 | 0.09 | 0.00 | 0.03 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| APPML UR | 0.04 | 0.05 | 0.40 | 0.17 | 0.01 | 0.08 |
| GRH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNO HE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINCID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DENDROCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFGRONID | 0.10 | 0.12 | 1.00 | 0.43 | 0.01 | 0.07 |
| ANMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANDP PUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHGLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCRI NUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

234.00

15.08

TABLE 14 BIOMASS (WEIGHT) SUMMARY

STATION 14 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACOTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.20 | 0.12 | 2.00 | 3.07 | 0.20 | 2.89 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CHN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OCRV ANN | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| ET LCNGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AME | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINOE | 0.12 | 0.04 | 1.20 | 1.84 | 0.17 | 2.43 |
| HEMIP EO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HES IDAE | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| LEP LONG | 0.74 | 1.65 | 7.40 | 11.35 | 1.04 | 14.93 |
| LUMFINE | 0.16 | 0.11 | 1.60 | 2.45 | 0.22 | 3.24 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYSI | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER BRAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FHCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ONU ELEG | 0.50 | 1.12 | 5.00 | 7.67 | 0.70 | 10.12 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOLO MI | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| PHY GRC | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.10 | 0.14 | 1.00 | 1.53 | 0.14 | 2.02 |
| PCLY TUT | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| PCLYND 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYND 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN BE | 0.06 | 0.13 | 0.60 | 0.92 | 0.08 | 1.21 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM EREV | 0.16 | 0.15 | 1.60 | 2.45 | 0.22 | 3.24 |
| AXIO ROB | 0.14 | 0.26 | 1.40 | 2.15 | 0.20 | 2.83 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HARLE EL | 0.06 | 0.05 | 0.60 | 0.92 | 0.08 | 1.21 |
| LAON CIR | 0.18 | 0.16 | 1.80 | 2.76 | 0.25 | 3.64 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL IDAE | 0.44 | 0.52 | 4.40 | 6.75 | 0.62 | 8.91 |
| MESO TAY | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| MYRIC CC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEO ROB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCIO IEN | 0.18 | 0.11 | 1.80 | 2.76 | 0.25 | 3.64 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OWEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GRA | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| PHYL PHO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| POLYCIRR | 0.02 | 0.04 | 0.20 | 0.31 | 0.03 | 0.40 |
| POLYCORA | 0.04 | 0.09 | 0.40 | 0.61 | 0.06 | 0.81 |
| PRIGNOSP | 0.28 | 0.20 | 2.80 | 4.29 | 0.39 | 5.67 |
| PS PGT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS SAB L | 0.04 | 0.05 | 0.40 | 0.61 | 0.06 | 0.81 |
| SAB IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIO FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE EA | 0.16 | 0.36 | 1.60 | 2.45 | 0.22 | 3.24 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE COS | 0.44 | 0.65 | 4.40 | 6.75 | 0.64 | 9.04 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CENOFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CPISTHCB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURECNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 14 continued

STATION 14 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.02 | 0.04 | 0.20 | 0.31 | 0.01 | 0.14 |
| BANK SLT | 0.04 | 0.09 | 0.40 | 0.61 | 0.02 | 0.29 |
| BIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI ANN | 0.04 | 0.09 | 0.40 | 0.61 | 0.02 | 0.29 |
| LUCI TEN | 0.13 | 0.25 | 1.80 | 2.73 | 0.09 | 1.30 |
| MALUMA | 0.20 | 0.40 | 2.60 | 3.93 | 0.13 | 1.83 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS IUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCD CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TYFA FLE | 0.02 | 0.04 | 0.20 | 0.31 | 0.01 | 0.14 |
| | | | | | | |
| GSTRACCO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPE:CAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BALANUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEB FUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LINA LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPPELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMP:ITCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR CULU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM:IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CEP:IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX:DAE | 0.04 | 0.05 | 0.40 | 0.61 | 0.01 | 0.12 |
| PROTCMLD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHCE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.02 | 0.04 | 0.20 | 0.31 | 0.00 | 0.06 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EVALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEMIG OR | 0.08 | 0.11 | 0.80 | 1.23 | 0.02 | 0.23 |
| MUNI QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORCG GHA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND PLA | 0.06 | 0.05 | 0.60 | 0.92 | 0.01 | 0.17 |
| PINN FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.02 | 0.04 | 0.20 | 0.31 | 0.00 | 0.06 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PUG GRA | 0.04 | 0.09 | 0.40 | 0.61 | 0.01 | 0.12 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SPIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | |
| AMPHI UR | 0.06 | 0.05 | 0.60 | 0.92 | 0.02 | 0.26 |
| CFH ACUL | 0.02 | 0.04 | 0.20 | 0.31 | 0.01 | 0.09 |
| ASTERID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RYCNL PE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINGID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GENKROCH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPTC CL | 0.02 | 0.04 | 0.20 | 0.31 | 0.02 | 0.29 |
| | | | | | | |
| SIPUNCUL | 0.42 | 0.94 | 4.20 | 6.44 | 0.42 | 6.07 |
| PHORONID | 0.06 | 0.13 | 0.60 | 0.92 | 0.01 | 0.09 |
| AMMO HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANUP PUR | 0.60 | 0.82 | 6.00 | 9.20 | 0.60 | 8.63 |
| FRGLIS L | 0.34 | 0.76 | 3.40 | 5.21 | 0.34 | 4.92 |
| FRGI NCT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

65.20

6.92

TABLE 15 EICMASS (WEIGHT) SUMMARY

STATION 15 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACGYLLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.60 | 0.69 | 6.00 | 12.45 | 0.60 | 12.57 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIC CRN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UDRV ANN | 0.04 | 0.09 | 0.40 | 0.83 | 0.06 | 1.17 |
| ET LONGA | 0.04 | 0.09 | 0.40 | 0.83 | 0.06 | 1.17 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXO VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AVE | 0.04 | 0.09 | 0.40 | 0.83 | 0.06 | 1.17 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCLRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.06 | 0.09 | 0.60 | 1.24 | 0.08 | 1.76 |
| HEMIP BC | 0.02 | 0.04 | 0.20 | 0.41 | 0.03 | 0.59 |
| HES* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRINE | 0.36 | 0.43 | 3.60 | 7.47 | 0.50 | 10.56 |
| MICRO NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYSI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHTYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FRUC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNU CLEG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFGLC MI | 0.02 | 0.04 | 0.20 | 0.41 | 0.03 | 0.59 |
| PHY GRG | 0.08 | 0.12 | 0.80 | 1.65 | 0.11 | 2.35 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.16 | 0.11 | 1.60 | 3.32 | 0.22 | 4.69 |
| PCLY TUT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FRCT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPH* CE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPH* DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM REV | 0.06 | 0.05 | 0.60 | 1.24 | 0.08 | 1.76 |
| AXIC RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP* CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HARFLI CL | 0.10 | 0.10 | 1.00 | 2.07 | 0.14 | 2.93 |
| LACK CIR | 0.18 | 0.25 | 1.80 | 3.73 | 0.25 | 5.28 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL* IDAE | 0.16 | 0.13 | 1.60 | 3.32 | 0.22 | 4.69 |
| MESO TAY | 0.02 | 0.04 | 0.20 | 0.41 | 0.03 | 0.59 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEC RCB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCID TEN | 0.52 | 0.20 | 5.20 | 10.79 | 0.73 | 15.26 |
| OPHEL LI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GREN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PECT GNA | 0.06 | 0.09 | 0.60 | 1.24 | 0.08 | 1.76 |
| PHYL PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIR | 0.04 | 0.05 | 0.40 | 0.83 | 0.06 | 1.17 |
| PCLYDGRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PRICKSP | 0.34 | 0.19 | 3.40 | 7.05 | 0.48 | 9.97 |
| PS* PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS* SAB L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIC FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREE HA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.12 | 0.27 | 1.20 | 2.49 | 0.17 | 3.52 |
| TELE COS | 0.30 | 0.25 | 3.00 | 6.22 | 0.93 | 19.63 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER* IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.02 | 0.04 | 0.20 | 0.41 | 0.03 | 0.59 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MITH TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS MEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLNUROTA | 0.02 | 0.04 | 0.20 | 0.41 | 0.03 | 0.59 |
| CFISTHOB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TURBNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYPLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 15 continued

STATION 15 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| ACILA_CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN_SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK_SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV_1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV_2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BIV_3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD_VEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLINCCAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI_ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI_TEN | 0.36 | 0.26 | 3.60 | 7.47 | 0.18 | 3.77 |
| MACOVA | 0.50 | 0.73 | 5.00 | 10.37 | 0.25 | 5.24 |
| MCDI_REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC_LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA_AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS_TUMI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLC_TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCDD_CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP_LCR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLA_CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| THYA_FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPELAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPELMAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| JALANUS | 0.02 | 0.04 | 0.20 | 0.41 | 0.00 | 0.03 |
| NEB_PUG | 0.04 | 0.09 | 0.40 | 0.83 | 0.01 | 0.17 |
| CUM_1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM_2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM_3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT_SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIXN_LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PANA_ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| APP_IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| APP_ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| APPITGEB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACR_COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CGROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAM_IDEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI_DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DEU_IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOIS_B | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX_DAE | 0.02 | 0.04 | 0.20 | 0.41 | 0.00 | 0.08 |
| PRCTMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN_SHDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL_GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC_BRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC_GRA | 0.04 | 0.05 | 0.40 | 0.83 | 0.01 | 0.17 |
| CANC_PRO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRAN_PAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CLALUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HENIG_OR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLNI_QUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORRG_GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG_ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG_BER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAND_PLA | 0.02 | 0.04 | 0.20 | 0.41 | 0.00 | 0.08 |
| PINN_FAB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN_OCC | 0.10 | 0.00 | 1.00 | 2.07 | 0.02 | 0.42 |
| PINN_TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG_GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER_AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA_AC | 0.02 | 0.04 | 0.20 | 0.41 | 0.00 | 0.08 |
| SPIN_PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI_UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPH_ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROIC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RYCNC_HE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BENDROCH | 0.02 | 0.04 | 0.20 | 0.41 | 0.02 | 0.42 |
| LEPTO_CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PIJAGNID | 0.02 | 0.04 | 0.20 | 0.41 | 0.00 | 0.04 |
| AMMO_HEX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANOP_MUR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFULIS_L | 0.14 | 0.31 | 1.40 | 2.90 | 0.14 | 2.93 |
| PCRI_NCT | 0.16 | 0.36 | 1.60 | 3.32 | 0.16 | 3.35 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:HAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

48.20

4.77

TABLE 16 BIOMASS (WEIGHT) SUMMARY

STATION 16 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS

| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | NET WEIGHT/ SQ.M. | PCT OF TOTAL NET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
|------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| FCRAM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCRAM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACUTYLEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMERTEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEMATODA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIG CRN | 0.06 | 0.13 | 0.60 | 0.30 | 0.08 | 0.42 |
| DHRV ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET LONGA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ET PACI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EUL SANG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EXC VERU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC AMS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYC CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCERA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GLYCINDE | 0.02 | 0.04 | 0.20 | 0.10 | 0.03 | 0.14 |
| HEMIF BO | 0.02 | 0.04 | 0.20 | 0.10 | 0.03 | 0.14 |
| HES*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEP LONG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUMBRIE | 0.24 | 0.17 | 2.40 | 1.20 | 0.34 | 1.67 |
| MICRC NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEPHYSI | 0.48 | 0.54 | 4.80 | 2.40 | 0.67 | 3.33 |
| NEPHYS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER ERAN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NER FRCC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNU ELEG | 3.36 | 1.57 | 33.60 | 16.83 | 4.70 | 23.32 |
| PALE BEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PEIS ASP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PFGLC MI | 0.06 | 0.05 | 0.60 | 0.30 | 0.03 | 0.42 |
| PHY GRO | 0.18 | 0.18 | 1.80 | 0.90 | 0.25 | 1.25 |
| PHY MAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLAT BIC | 0.12 | 0.13 | 1.20 | 0.60 | 0.17 | 0.83 |
| PCLY TUT | 0.02 | 0.04 | 0.20 | 0.10 | 0.03 | 0.14 |
| PCLYNO 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYNO 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROT GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIG*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STHEN DE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYLLIS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EP FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHA AN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANPH*DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ARM ERLV | 0.02 | 0.04 | 0.20 | 0.10 | 0.03 | 0.14 |
| AAIO RUB | 0.34 | 0.35 | 3.40 | 2.71 | 0.76 | 3.75 |
| CAP CAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAP*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CIR*INAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAFLC EL | 0.06 | 0.05 | 0.60 | 0.30 | 0.08 | 0.42 |
| LAGN CIR | 0.12 | 0.16 | 1.20 | 0.60 | 0.17 | 0.83 |
| MAGEL PI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MAL*IDAE | 0.10 | 0.12 | 1.00 | 0.50 | 0.14 | 0.69 |
| MESC TAY | 6.88 | 3.57 | 68.80 | 34.47 | 9.63 | 47.75 |
| MYRIC OC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NEO RUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NLIO TEN | 0.12 | 0.04 | 1.20 | 0.60 | 0.17 | 0.83 |
| GFHEL LI | 0.12 | 0.08 | 1.20 | 0.60 | 0.17 | 0.83 |
| CFH*IDAE | 0.04 | 0.05 | 0.40 | 0.20 | 0.06 | 0.28 |
| CNEN FUS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCT GRA | 0.04 | 0.05 | 0.40 | 0.20 | 0.06 | 0.32 |
| PHYL PNC | 4.36 | 3.53 | 43.60 | 21.84 | 0.44 | 2.16 |
| PISTA CR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCLYCIRR | 0.04 | 0.05 | 0.40 | 0.20 | 0.06 | 0.28 |
| PCLYDURA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHILGSP | 0.16 | 0.05 | 1.60 | 0.80 | 0.22 | 1.11 |
| PS*PCT R | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PS*SAB L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SAB*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCAL INF | 0.06 | 0.05 | 0.60 | 0.30 | 0.08 | 0.42 |
| SFIG FIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STREB DA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| STYL PLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELE COS | 0.02 | 0.04 | 0.20 | 0.10 | 0.00 | 0.01 |
| TERE STR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TER*IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRIC GLA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SF FRAG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ACTECCIN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAST 1 | 0.04 | 0.05 | 0.40 | 0.20 | 0.03 | 0.14 |
| GAST 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MTR TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASS MLN | 0.58 | 0.53 | 5.80 | 2.91 | 0.41 | 2.01 |
| LENUFOTA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OPISTHOJ | 0.04 | 0.05 | 0.40 | 0.20 | 0.03 | 0.14 |
| TURCNIL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCLYFLAC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 16 continued

| STATION 16 APR-MAY 25-7 1975 AND JAN 22 1976 5 HAULS | | | | | | |
|--|----------------------|-----------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| TAXON CODE | MEAN WEIGHT/ HAUL | STANDARD DEVIATION | WET WEIGHT/ SQ.M. | PCT OF TOTAL WET WT./SQ.M. | DRY WEIGHT/ SQ.M. | PCT OF TOTAL DRY WT./SQ.M. |
| ACILA CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AXIN SER | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BANK SET | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EIV 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EIV 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EIV 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CARD VEN | 0.04 | 0.09 | 0.40 | 0.20 | 0.02 | 0.10 |
| CLINUCAR | 0.02 | 0.04 | 0.20 | 0.10 | 0.01 | 0.05 |
| LUCI ANN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LUCI TEN | 0.02 | 0.04 | 0.20 | 0.10 | 0.01 | 0.05 |
| MACUMA | 0.32 | 0.55 | 3.20 | 1.60 | 0.16 | 0.79 |
| MCCI REC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUSC LAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYA AREN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MYS TUMI | 0.12 | 0.04 | 1.20 | 0.60 | 0.06 | 0.30 |
| NUC TEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PCCO CEP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PSEP LOR | 0.08 | 0.04 | 0.80 | 0.40 | 0.04 | 0.20 |
| SCLA CCL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TELLINA | 0.04 | 0.09 | 0.40 | 0.20 | 0.02 | 0.10 |
| THYA FLE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OSTRACOD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| COPELICAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CGPE:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EALANUS | 0.02 | 0.04 | 0.20 | 0.10 | 0.00 | 0.02 |
| NEB PUG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CUM 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIASTYLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LEPT SAV | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LIMN LIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PARA ELE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAPRELLI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPY IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPY ISCA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPY THOE | 0.02 | 0.04 | 0.20 | 0.10 | 0.00 | 0.02 |
| ACR COLU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CCROPH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAMY IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELI DEN | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MELITA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GEOY IDAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOTIS D | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PHOX DAE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PROTCMED | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYN SHOE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CAL GIG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANC GRA | 0.02 | 0.04 | 0.20 | 0.10 | 0.00 | 0.02 |
| CANC GRA | 0.04 | 0.04 | 0.40 | 0.20 | 0.01 | 0.04 |
| CANC PRO | 0.06 | 0.13 | 0.60 | 0.30 | 0.01 | 0.06 |
| CAN DAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECLUS | 0.04 | 0.09 | 0.40 | 0.20 | 0.01 | 0.04 |
| HEMIG GR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MUNI OUA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DREG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG ALEU | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PAG EER | 0.06 | 0.09 | 0.60 | 0.30 | 0.01 | 0.06 |
| PAND PLA | 0.02 | 0.04 | 0.20 | 0.10 | 0.00 | 0.02 |
| PINN FAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PINN OCC | 0.18 | 0.08 | 1.80 | 0.90 | 0.04 | 0.18 |
| PINN TUB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PLG GRA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCLER AL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SCYRA AC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SFIR PRI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AMPHI UR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ORH ACUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ASTEROID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PYCNO FC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ECHINOID | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LENDROCH | 0.40 | 0.45 | 4.00 | 2.00 | 0.40 | 1.98 |
| LEPTC CL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIPUNCUL | 0.40 | 0.68 | 4.00 | 2.00 | 0.40 | 1.98 |
| PHORONID | 0.06 | 0.05 | 0.60 | 0.30 | 0.01 | 0.03 |
| AMMO RLX | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ANDP PUR | 0.10 | 0.22 | 1.00 | 0.50 | 0.10 | 0.50 |
| PHCLIS L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FCNI NCT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EGG | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:GEL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MASS:MAR | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TOTAL

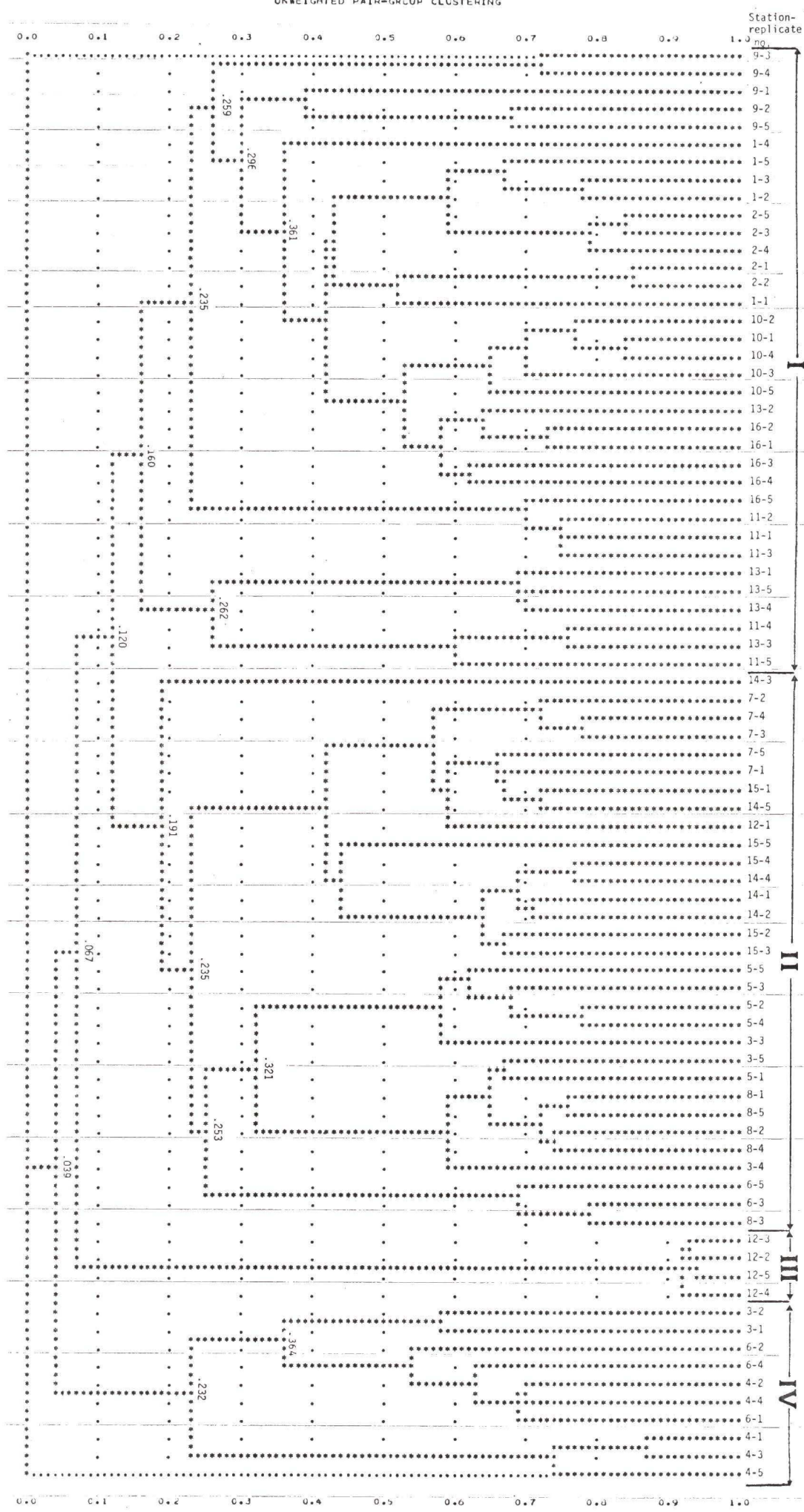
199.60

20.17

APPENDIX V

Cluster analysis: computer printouts of
normal and inverse analyses

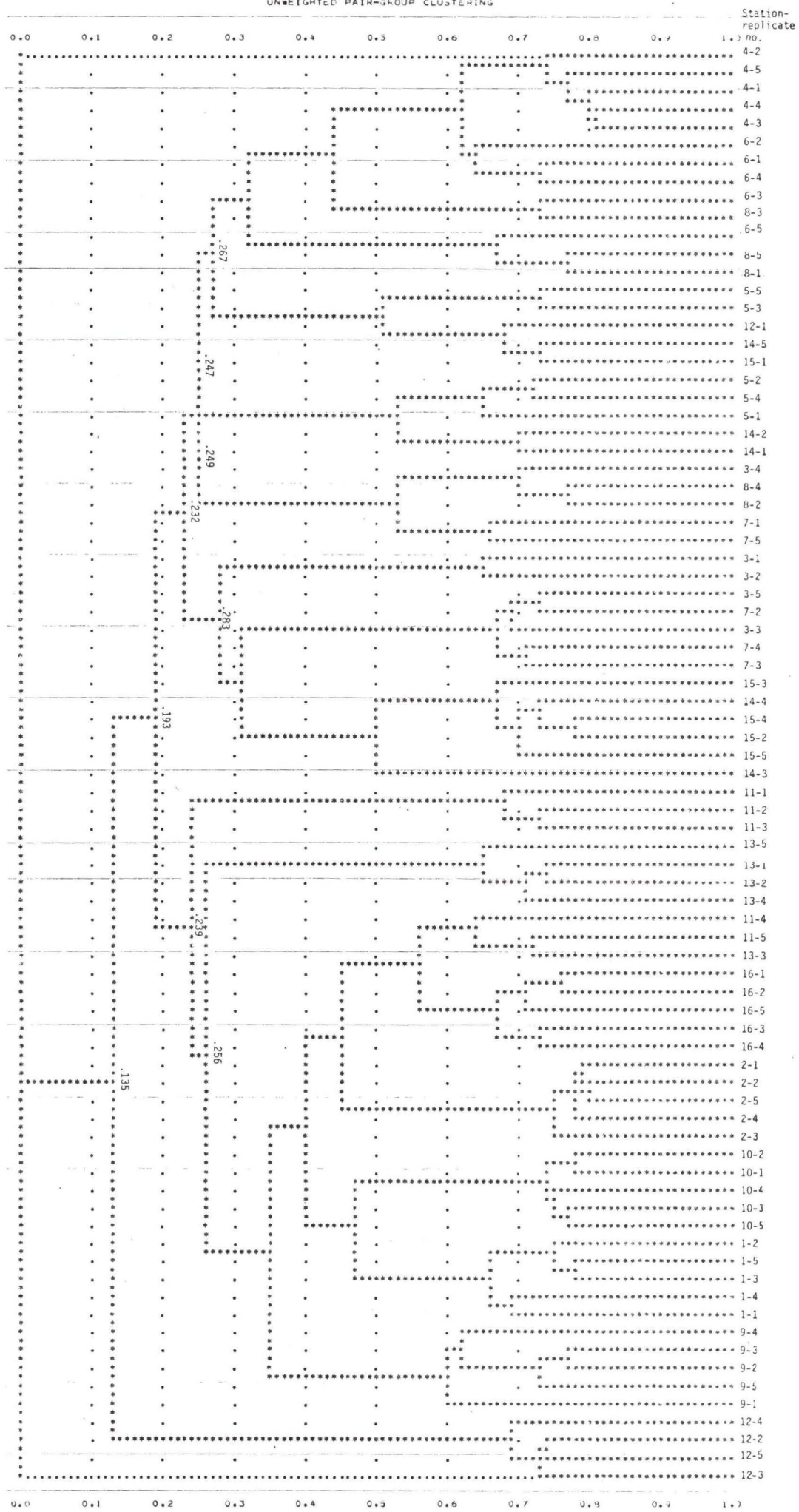
COEFFICIENT OF CZEKANOWSKI
UNWEIGHTED PAIR-GROUP CLUSTERING



Appendix VA Dendrogram from the normal clustering of all 80 hauls by the Czekanowski coefficient.

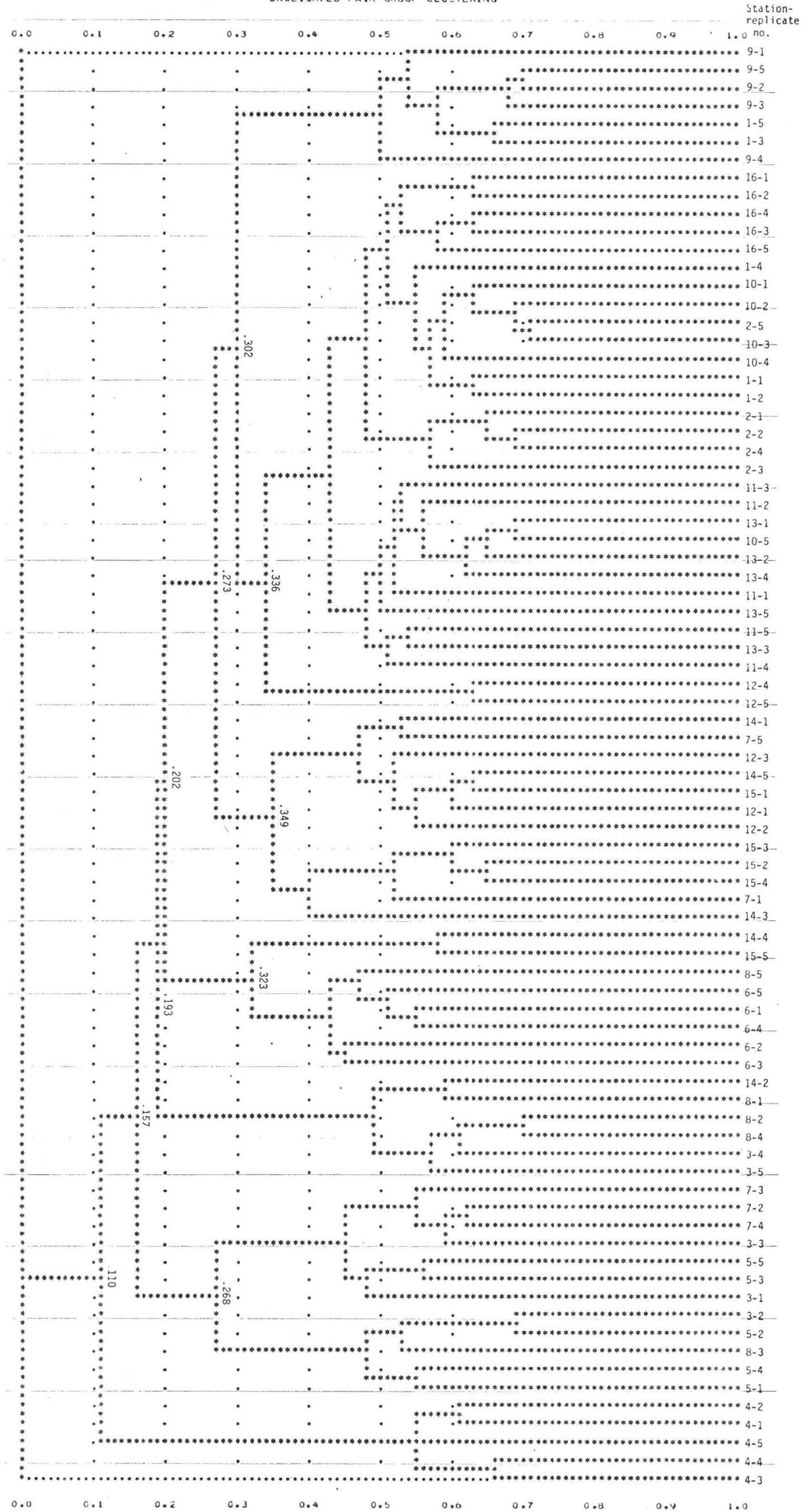
COEFFICIENT OF CZEKANOWSKI

UNWEIGHTED PAIR-GROUP CLUSTERING



Appendix VB Dendrogram from the normal clustering of all 80 hauls by the Czekanowski coefficient. Data was first transformed by $\ln(x+1)$

JACCARD COEFFICIENT OF COMMUNITY
UNWEIGHTED PAIR-GROUP CLUSTERING



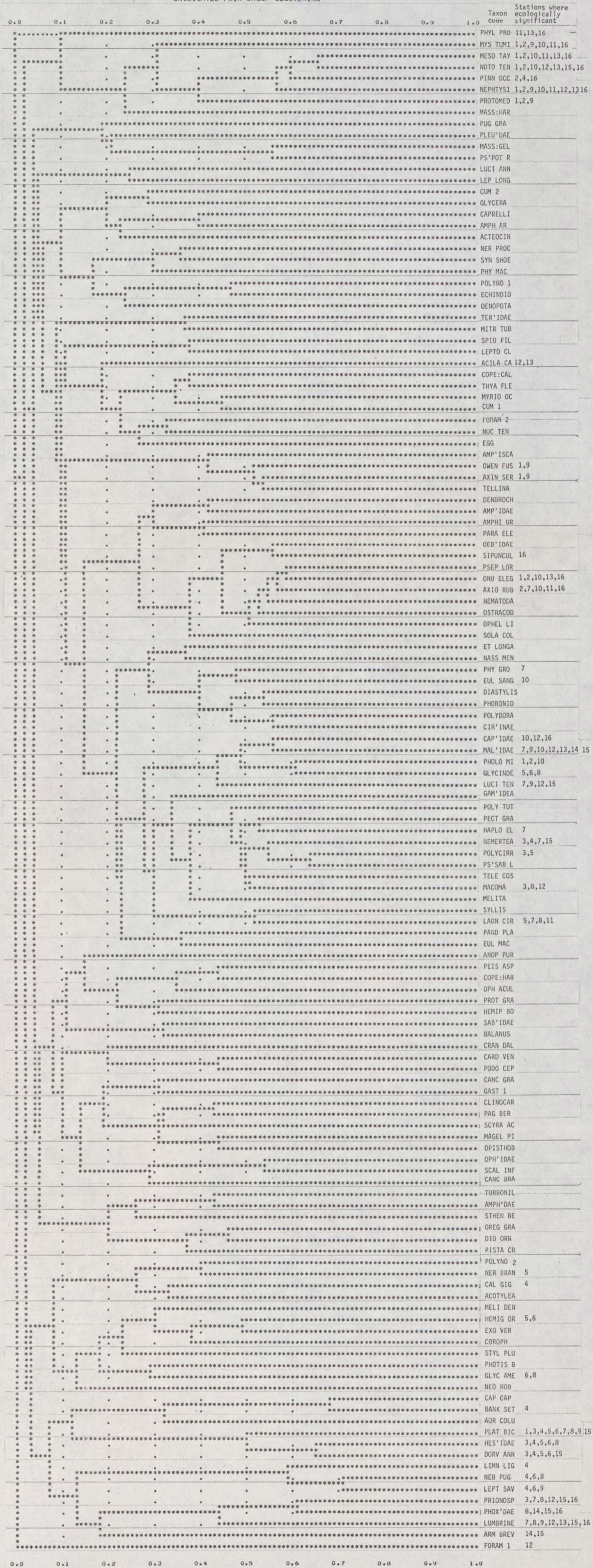
Appendix VC Dendrogram from the normal clustering of all 80 hauls by the Jaccard coefficient

APPENDIX VI

Zürich-Montpellier analysis: computer printout

COEFFICIENT OF CZEKANOWSKI

UNWEIGHTED PAIR-GROUP CLUSTERING



Appendix VD Dendrogram from the inverse clustering of 110 hauls by the Czekanowski coefficient

VITA

Surname: CONLAN Given Names: Kathleen Elizabeth

Place of Birth: Ottawa, Ontario Date of Birth: 30 June 1950

Educational Institutions Attended, with Dates of Entering and Leaving:

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Publications:

Conlan, K.E. 1977. The Effects of Wood Debris Deposition on the Marine Benthos: A review of the literature. Report to Dobrocky Seatech Ltd. for Environment Canada. n.p.

Conlan, K.E., T.R. Andrews and D. Tillapaugh. 1974. A preliminary assessment of the impact of intertidal log dumping and storage on the faunal community and sediment characteristics of Buckley Bay. Marine Resources Branch, British Columbia Department Recreation and Conservation. 12 pp.


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Title of Thesis/Dissertation

The effects of wood deposition from a coastal log handling operation on the benthos of a shallow sand bed in Saanich Inlet, British Columbia

Author


Kathleen Elizabeth Conlan

March, 1977