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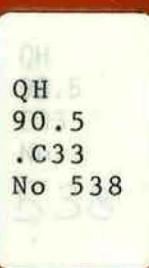
Size-frequency distributions of the dominant macrozooplankton in Frobisher Bay, N.W.T. during the open water season

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September 1985

**Canadian Data Report of
Fisheries and Aquatic Sciences
No. 538**



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Canadian Data Report of Fisheries and Aquatic Sciences

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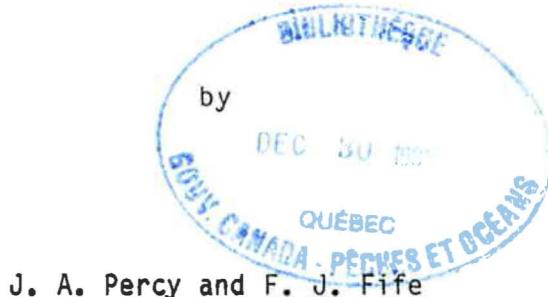
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Canadian Data Report of
Fisheries and Aquatic Sciences 538

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SIZE-FREQUENCY DISTRIBUTIONS OF THE DOMINANT
MACROZOOPLANKTON IN FROBISHER BAY, N.W.T.
DURING THE OPEN WATER SEASON



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Cat. No. Fs97-13/0538

ISSN 0706-6465

Correct citation for this publication:

Percy, J. A. and F. J. Fife. 1985. Size-frequency distributions of the dominant macrozooplankton in Frobisher Bay, N.W.T. during the open water season.

Can. Data Rep. Fish. Aquat. Sci. 538: v + 117 p.

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ABSTRACT

Percy, J. A. and F. J. Fife. 1985. Size-frequency distributions of the dominant macrozooplankton in Frobisher Bay, N.W.T. during the open water season. Can. Data Rep. Fish. Aquat. Sci. 538: v + 117 pp.

This report serves as a repository for tabular data pertaining to the size frequency distributions of populations of the four dominant species of macrozooplankton present in Frobisher Bay. Data are presented for the ctenophore Mertensia ovum, the hyperiid amphipod Parathemisto libellula, the chaetognath Sagitta elegans and the euphausiid Thysanoessa inermis. Collections were obtained at frequent intervals from two stations in the Upper Bay during several open water seasons and on two occasions at two stations in the lower bay.

Key words: Arctic macrozooplankton, size-frequency, Mertensia ovum, Sagitta elegans, Parathemisto libellula, Thysanoessa inermis.

RESUME

Percy, J. A. and F. J. Fife. 1985. Size-frequency distributions of the dominant macrozooplankton in Frobisher Bay, N.W.T. during the open water season. Can. Data Rep. Fish. Aquat. Sci. 538: v + 117 pp.

Ce rapport présente un répertoire des données tabulaires reliées à la distribution de la fréquence de la taille des quatre principales espèces de macrozooplancton présentes dans la Baie de Frobisher, T.N.O. Les résultats sont donnés pour le cténaire, Mertensia ovum, l'amphipode hyperidéen, Parathemisto libellula, le chaetognathe Sagitta elegans et l'euphausiacée, Thysanoessa inermis. On a échantilloné fréquemment à deux stations dans la partie supérieure de la baie pendant quelques saisons d'été et deux fois à deux stations dans la partie inférieure de la baie.

ACKNOWLEDGEMENTS

We are indebted to many capable students who have assisted us in the field, particularly L. Bertrand, M. deFeydeau, F. Paton and J. Shea. We are grateful to A. Theriault of DIAND for his support in making laboratory space available to us at the Ikaluit Research Laboratory in Frobisher Bay. We acknowledge the assistance of T. Benfey, S. C. Tan and P. Riebel in sorting and measuring the samples and of A. Mohammed in identifying some of the species. We greatly appreciate the assistance of Joanne Grant in preparing the typescript of the report.

INTRODUCTION

Marine macrozooplankton (>2 mm) play an important intermediary role in the transfer of energy between herbivorous microzooplankton and carnivorous marine vertebrates. In polar seas many species of fish, birds and mammals rely heavily, at least for part of the year, on macrozooplankton. In recent years a great deal has been learned about the basic ecology of many of the common species of arctic macrozooplankton. There is, however, relatively little quantitative information about their standing stock biomass at different times and places, their rates of production and their trophic relationships.

The present report is part of a continuing study of macrozooplankton production in upper Frobisher Bay, Southeastern Baffin Island. An earlier report (Percy and Fife, 1983) presented data on the proportion of biomass and caloric energy within the major classes of organisms constituting the macrozooplankton community. It was found that four species, the ctenophore Mertensia ovum, the chaetognath, Sagitta elegans, the hyperiid amphipod Parathemisto libellula and the euphausiid Thysanoessa inermis consistently dominated the community during the open water season. A subsequent report (Percy and Fife, 1985) presented detailed information about the vertical distribution and estimates of the absolute abundance for these four dominant species during six consecutive open water seasons.

In the present report we present tabular data, based on these same macrozooplankton collections, pertaining to the size frequencies of animals in each of the populations.

METHODS

The collecting procedures, species composition and abundance estimates for the zooplankton collections used in this study have been fully described elsewhere (Percy and Fife, 1985). Sampling was carried out at irregular intervals during the open water season (August-September) at two stations in Upper Frobisher Bay from 1978 to 1983. Stations 5 and 51 were occupied a total of 24 and 13 times, respectively. Two additional stations in lower Frobisher Bay, 327 and 313a were occupied twice and once, respectively. The original tow collections are numbered consecutively from the beginning each year. The number is preceded by the last two digits of the year. Thus, collection number 81-04 is the fourth plankton tow of 1981. If the data are for a set of collections from different depths at one station on the same day then the beginning and ending collection numbers (usually the shallowest and the deepest) are given, separated by a period. Thus 8209.17 refers to the pooled data from the 1982 collections 09 to 17, inclusive. Station locations and pertinent hydrographic data are presented in the earlier report.

The total lengths of fully extended and straightened formalin preserved (except for Mertensia) animals were measured to the nearest 0.1 mm using dial calipers. The length of P. libellula was measured from the front of the head to the tip of the longest uropod; of I. inermis from the tip of the rostrum to the end of the longest uropod and for S. elegans from the front of the head to the end of the tail, excluding the tail fin which is soft and readily damaged. The data has not been corrected for shrinkage during preservation. However, experiments were carried out on

each species to estimate the degree of shrinkage. Animals were measured while alive (after narcotization by bubbling CO₂ through the medium) and then at intervals after preservation.

Mertensia ovum kept in buffered formalin disintegrated rapidly and could not be measured. An attempt was made to preserve the ctenophores by first fixing them in 1% TCA and then holding them in a special ctenophore preservative (Steedman, 1976; Percy and Fife, 1985). With this treatment the animals remained intact but shrank dramatically. An experiment in which the ctenophore volumes were measured (by displacement in graduated cylinders) before and after preservation indicated a reduction in volume of over 90%. It was thus not feasible to obtain size estimates from preserved specimens. From 1981 on Mertensia were carefully removed from the zooplankton samples upon collection and transported alive to the laboratory in large jugs of chilled seawater. They were placed individually in petri plates with a small quantity of water and the maximum length (excluding tentacles) was measured by calipers along the long axis of the body. Ctenophores less than 2 mm were generally not counted or measured although their presence in significant numbers in the samples was noted.

Very large samples were subsampled prior to measurement. Animals were spread uniformly in an 8-sectored circular pan and all animals from an appropriate number of sectors were removed and measured. Where necessary the mean lengths for the pooled depth samples have been corrected for the variations in the degree of subsampling carried out on individual depth samples.

Mean lengths of each species were calculated for each depth sample in order to detect vertical partitioning of different size groups. The mean lengths of animals from all depths sampled during a given station occupation were also calculated for each species. Size frequency histograms were prepared for each of these pooled-depth data sets that contained more than 10 measurements.

RESULTS

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Table 4. Mean lengths of Parathemisto libellula at different depths and for all depths combined at various stations in Frobisher Bay.

Table 5. Mean lengths of Sagitta elegans at different depths and for all depths combined at various stations in Frobisher Bay.

Table 6. Mean lengths of Thysanoessa inermis at different depths and for all depths combined at various stations in Frobisher Bay.

Table 1. List of macrozooplankton collections from Frobisher Bay from which body length data of the dominant species were obtained. Size frequency histograms were prepared for pooled station samples that contained at least 10 specimens of M. ovum (M), P. libellula (P), S. elegans (S) or T. inermis (T).

| Year | Date | Station | Collection No. | Histograms |
|------|----------|---------|----------------|------------|
| 1978 | July 30 | 5 | 7802.06 | PS |
| | July 30 | 51 | 7807.12 | PST |
| | Aug. 26 | 5 | 7813.18 | PST |
| | Aug. 26 | 51 | 7819.24 | PST |
| | Sept. 19 | 5 | 7825.30 | PS |
| | Sept. 20 | 51 | 7831.38 | PST |
| 1979 | July 28 | 5 | 7901.07 | PS |
| | July 29 | 51 | 7908.16 | PST |
| | Aug. 16 | 51 | 7917.25 | PST |
| | Aug. 17 | 5 | 7926.32 | PST |
| | Sept. 11 | 5 | 7933.37 | PS |
| | Sept. 12 | 51 | 7938.44 | PST |
| | Sept. 24 | 5 | 7945.50 | PS |
| | Sept. 25 | 51 | 7951.58 | PS |
| 1980 | Aug. 21 | 5 | 8001.06 | PST |
| | Aug. 28 | 5 | 8007.12 | PS |
| | Aug. 31 | 51 | 8013.20 | PST |
| | Sept. 2 | 5 | 8021.27 | PST |
| | Sept. 5 | 5 | 8028.33 | PST |
| | Sept. 10 | 5 | 8034.39 | PS |
| | Sept. 12 | 5 | 8040.45 | ST |
| 1981 | Aug. 3 | 5 | 8101.06 | MPS |
| | Aug. 4 | 51 | 8107.15 | MPST |
| | Aug. 10 | 5 | 8116.22 | MPS |
| | Aug. 21 | 5 | 8123.28 | MPS |
| | Aug. 24 | 51 | 8129.37 | MPST |
| | Sept. 2 | 5 | 8138.43 | MPS |
| | Sept. 7 | 5 | 8144.50 | MPS |
| | Sept. 10 | 51 | 8151.59 | MPST |
| | Sept. 13 | 5 | 8160.66 | MPS |
| 1982 | Aug. 8 | 5 | 8201.08 | PST |
| | Aug. 13 | 51 | 8209.17 | MPST |
| | Aug. 14 | 327 | 8218.25 | MPST |
| | Aug. 24 | 5 | 8229.33 | MPS |
| | Sept. 2 | 5 | 8234.39 | MPS |
| | Sept. 3 | 51 | 8240.48 | MPST |
| | Sept. 5 | 327 | 8249.58 | MPST |
| | Sept. 7 | 313a | 8259.64 | MPS |
| 1983 | Aug. 18 | 5 | 8301.06 | MPS |
| | Aug. 25 | 5 | 8307.11 | MPS |

Table 2. Shrinkage in length (L,mm) or volume (V,ml) of macrozooplankton following preservation for varying periods. (Day 0 represents measurement on live animal).

| Species | L or V | N | DAY | MEAN | S.D. | $\Delta\%*$ | t** | P |
|---------------------|--------|----|-----|------|------|-------------|------|-------|
| <u>P. libellula</u> | L | 24 | 0 | 19.0 | 1.1 | - | - | - |
| | | | 10 | 18.8 | 1.3 | -1.1 | 2.1 | 0.05 |
| | | | 602 | 18.4 | 1.1 | -3.2 | 7.6 | 0.001 |
| <u>S. elegans</u> | L | 24 | 0 | 29.3 | 4.1 | - | - | - |
| | | | 8 | 26.9 | 4.2 | -8.2 | 12.4 | 0.001 |
| | | | 600 | 26.6 | 4.2 | -9.2 | 7.9 | 0.001 |
| <u>T. inermis</u> | L | 27 | 0 | 28.2 | 2.1 | - | - | - |
| | | | 9 | 26.4 | 2.0 | -6.4 | 2.9 | 0.01 |
| | | | 32 | 26.6 | 2.0 | -5.7 | -0.4 | 0.73 |
| | | | 697 | 26.6 | 2.1 | -5.7 | -0.1 | 0.90 |
| <u>M. ovum</u> | V | 25 | 0 | 5.9 | 1.6 | - | - | - |
| | | | 12 | 0.4 | 0.1 | -93.2 | 18.3 | 0.001 |

* Difference from day 0.

** t-statistic for significance of difference from preceding measurement.

Table 3. Mean lengths of Mertensia ovum at different depths (m) and for all depths combined (Σ) at various stations in Frobisher Bay from 1981 to 1983. N is the total number of animals in the sample and n is the number measured.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|--------|---------|------------|----------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 3.8.81 | 5 | 81-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -02 | 5 | 7 | 19.2 | 6.3 | 9.8 | 27.9 |
| | | | -03 | 9 | 20 | 22.7 | 10.1 | 11.9 | 48.1 |
| | | | -04 | 21 | 49 | 19.0 | 6.3 | 7.2 | 35.9 |
| | | | -05 | 39 | 17 | 22.4 | 3.6 | 17.0 | 31.2 |
| | | | -06 | 40 | 19 | 18.3 | 6.1 | 12.1 | 37.0 |
| | | | Σ | 112 | 104 | 20.1 | 7.1 | 7.2 | 48.1 |
| 4.8.81 | 51 | 81-07 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -08 | 5 | 5 | 22.5 | 6.3 | 14.3 | 29.7 |
| | | | -09 | 10 | 12 | 22.0 | 8.7 | 11.2 | 41.9 |
| | | | -10 | 22 | 16 | 17.8 | 5.9 | 8.8 | 52.1 |
| | | | -11 | 36 | 37 | 19.7 | 5.4 | 11.9 | 30.6 |
| | | | -12 | 62 | 22 | 24.0 | 7.9 | 11.2 | 41.7 |
| | | | -13 | 83 | 50 | 22.4 | 6.2 | 12.9 | 42.5 |
| | | | -14 | 118 | 41 | 25.0 | 8.9 | 12.2 | 52.3 |
| | | | -15 | 135 | 57 | 26.5 | 7.0 | 13.7 | 48.9 |
| | | | Σ | 240 | 225 | 23.2 | 7.8 | 8.8 | 52.3 |
| | | | 81-16 | 0.5 | 1 | 30.9 | - | 30.9 | 30.9 |
| | | | | 5 | 0 | - | - | - | - |
| | | | | 9 | 23 | 24.6 | 9.7 | 13.2 | 63.5 |
| | | | | 13 | 14 | 23.6 | 9.7 | 5.6 | 45.6 |
| | | | | 26 | 38 | 21.6 | 7.7 | 6.3 | 37.3 |
| | | | | 28 | 67 | 21.9 | 6.6 | 10.5 | 36.5 |
| | | | | 47 | 51 | 27.4 | 8.2 | 10.9 | 51.7 |
| | | | Σ | 194 | 187 | 23.8 | 8.3 | 5.6 | 63.5 |

Table 3. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 21.8.81 | 5 | 81-23 | 0.5 | 0 | 0 | - | - | - | - |
| | | -24 | 2 | 8 | 8 | 21.7 | 5.1 | 15.5 | 32.0 |
| | | -25 | 6 | 5 | 5 | 28.0 | 5.3 | 21.5 | 34.8 |
| | | -26 | 13 | 46 | 46 | 28.6 | 6.8 | 12.5 | 41.6 |
| | | -27 | 23 | 30 | 29 | 28.3 | 10.9 | 9.5 | 58.3 |
| | | -28 | 33 | 40 | 40 | 25.3 | 7.1 | 13.6 | 36.4 |
| | | Σ | | 129 | 128 | 27.0 | 8.1 | 9.5 | 58.3 |
| 24.8.81 | 51 | 81-29 | 0.5 | 0 | 0 | - | - | - | - |
| | | -30 | 5 | 0 | 0 | - | - | - | - |
| | | -31 | 9 | 3 | 3 | 24.4 | 6.5 | 16.9 | 28.4 |
| | | -32 | 18 | 13 | 13 | 28.7 | 7.0 | 17.0 | 46.5 |
| | | -33 | 44 | 66 | 66 | 27.1 | 9.1 | 9.9 | 71.5 |
| | | -34 | 59 | 38 | 38 | 27.4 | 8.2 | 17.1 | 59.9 |
| | | -35 | 87 | 78 | 78 | 26.3 | 5.3 | 13.4 | 38.5 |
| | | -36 | 115 | 57 | 53 | 31.5 | 10.1 | 15.3 | 57.5 |
| | | -37 | 144 | 78 | 75 | 26.9 | 8.3 | 12.8 | 53.3 |
| | | Σ | | 333 | 326 | 27.7 | 8.3 | 9.9 | 71.5 |
| 2.9.81 | 5 | 81-38 | 0.5 | 0 | 0 | - | - | - | - |
| | | -39 | 6 | 15 | 15 | 34.7 | 6.3 | 22.8 | 42.7 |
| | | -40 | 10 | 18 | 18 | 28.1 | 5.7 | 19.1 | 42.3 |
| | | -41 | 21 | 21 | 20 | 28.3 | 7.0 | 15.6 | 46.1 |
| | | -42 | 29 | 30 | 28 | 26.1 | 6.8 | 15.0 | 38.1 |
| | | -43 | 37 | 65 | 61 | 28.6 | 8.5 | 9.7 | 49.0 |
| | | Σ | | 149 | 142 | 28.6 | 7.8 | 9.7 | 49.0 |

Table 3. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 7.9.81 | 5 | 81-44 | 0.5 | 1 | 1 | 22.5 | - | 22.5 | 22.5 |
| | | | -45 | 6 | 0 | - | - | - | - |
| | | | -46 | 9 | 14 | 31.9 | 12.8 | 2.8 | 54.9 |
| | | | -47 | 19 | 29 | 29.5 | 8.5 | 14.7 | 46.2 |
| | | | -48 | 33 | 49 | 28.1 | 6.9 | 12.7 | 45.2 |
| | | | -49 | 38 | 45 | 32.2 | 10.7 | 12.3 | 55.0 |
| | | | -50 | 50 | 60 | 31.3 | 8.4 | 17.5 | 55.5 |
| | | | Σ | 198 | 195 | 30.4 | 9.1 | 2.8 | 55.5 |
| 10.9.81 | 51 | 81-51 | 0.5 | 1 | 1 | 18.5 | - | 18.5 | 18.5 |
| | | | -52 | 6 | 0 | - | - | - | - |
| | | | -53 | 10 | 9 | 27.2 | 9.2 | 18.5 | 44.4 |
| | | | -54 | 23 | 33 | 34.1 | 8.5 | 24.2 | 57.5 |
| | | | -55 | 44 | 63 | 31.0 | 9.2 | 10.6 | 55.6 |
| | | | -56 | 59 | 119 | 33.0 | 7.7 | 13.6 | 61.5 |
| | | | -57 | 86 | 90 | 34.8 | 8.7 | 13.5 | 65.9 |
| | | | -58 | 120 | 56 | 33.6 | 7.0 | 17.3 | 50.9 |
| | | | -59 | 164 | 45 | 28.0 | 7.4 | 13.1 | 43.8 |
| | | | Σ | 416 | 406 | 32.5 | 8.4 | 10.6 | 65.9 |
| 13.9.81 | 5 | 81-60 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -61 | 5 | 0 | - | - | - | - |
| | | | -62 | 10 | 7 | 26.6 | 7.4 | 13.7 | 37.9 |
| | | | -63 | 21 | 9 | 34.7 | 7.5 | 21.1 | 45.2 |
| | | | -64 | 28 | 32 | 32.4 | 8.2 | 16.5 | 51.8 |
| | | | -65 | 47 | 8 | 36.1 | 8.6 | 19.8 | 44.6 |
| | | | -66 | 62 | 5 | 30.5 | 9.4 | 20.2 | 40.4 |
| | | | Σ | 61 | 58 | 32.4 | 8.3 | 13.7 | 51.8 |

Table 3. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 8.8.82 | 5 | 82-01 | 0.5 | 9 | 0 | - | - | - | - |
| | | -02 | 5 | 54 | 0 | - | - | - | - |
| | | -03 | 11 | 24 | 0 | - | - | - | - |
| | | -04 | 16 | 24 | 0 | - | - | - | - |
| | | -05 | 21 | 14 | 0 | - | - | - | - |
| | | -06 | 28 | 11 | 0 | - | - | - | - |
| | | -07 | 41 | 5 | 0 | - | - | - | - |
| | | -08 | 48 | 5 | 0 | - | - | - | - |
| | | Σ | | 146 | 0 | - | - | - | - |
| 13.8.82 | 51 | 82-09 | 0.5 | 0 | 0 | - | - | - | - |
| | | -10 | 8 | 6 | 6 | 37.4 | 6.9 | 29.2 | 48.7 |
| | | -11 | 11 | 15 | 15 | 35.1 | 8.1 | 23.6 | 53.0 |
| | | -12 | 19 | 22 | 22 | 33.7 | 10.9 | 14.3 | 50.0 |
| | | -13 | 48 | 18 | 18 | 31.9 | 8.4 | 18.0 | 47.9 |
| | | -14 | 56 | 19 | 17 | 36.5 | 9.3 | 23.0 | 55.0 |
| | | -15 | 77 | 29 | 28 | 32.4 | 10.5 | 6.0 | 54.0 |
| | | -16 | 88 | 70 | 61 | 33.2 | 9.6 | 16.0 | 69.0 |
| | | -17 | 170 | 35 | 35 | 34.7 | 8.9 | 18.0 | 50.0 |
| | | Σ | | 214 | 202 | 33.8 | 9.4 | 6.0 | 69.0 |
| 14.8.82 | 327 | 82-18 | 0.5 | 3 | 3 | 23.3 | 13.8 | 13.0 | 39.0 |
| | | -19 | 1 | 37 | 36 | 11.1 | 5.5 | 2.0 | 21.0 |
| | | -20 | 4 | 310 | 85 | 21.8 | 10.3 | 8.0 | 55.0 |
| | | -21 | 10 | 546 | 118 | 19.7 | 9.6 | 10.0 | 65.0 |
| | | -22 | 21 | 210 | 151 | 20.7 | 9.7 | 10.0 | 48.0 |
| | | -23 | 49 | 330 | 184 | 18.2 | 10.5 | 5.0 | 65.0 |
| | | -24 | 101 | 16 | 16 | 19.4 | 12.3 | 10.0 | 53.0 |
| | | -25 | 244 | 10 | 10 | 23.9 | 9.8 | 12.0 | 43.0 |
| | | Σ | | 1462 | 603 | 19.8 | 9.9 | 2.0 | 65.0 |

Table 3. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. |
| 24.8.82 | 5 | 82-29 | 0.5 | 1 | 1 | 18.8 | - | 18.8 | 18.8 |
| | | | -30 | 5 | 43 | 21.3 | 15.5 | 3.9 | 54.6 |
| | | | -31 | 12 | 57 | 19.3 | 13.1 | 2.3 | 51.1 |
| | | | -32 | 27 | 25 | 21.8 | 15.5 | 5.2 | 52.8 |
| | | | -33 | 48 | 12 | 14.5 | 10.8 | 5.0 | 44.0 |
| | | | Σ | 138 | 138 | 20.0 | 14.1 | 2.3 | 54.6 |
| 2.9.82 | 5 | 82-34 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -35 | 5 | 53 | 16.1 | 7.8 | 7.0 | 50.8 |
| | | | -36 | 8 | 90 | 19.9 | 8.3 | 6.3 | 46.3 |
| | | | -37 | 18 | 80 | 16.7 | 8.6 | 4.0 | 46.1 |
| | | | -38 | 27 | 66 | 19.3 | 12.0 | 6.2 | 57.1 |
| | | | -39 | 36 | 47 | 16.6 | 9.4 | 5.6 | 49.5 |
| | | | Σ | 336 | 299 | 17.7 | 9.4 | 4.0 | 57.1 |
| 3.9.82 | 51 | 82-40 | 0.5 | 2 | 2 | 41.3 | 11.7 | 33.0 | 49.2 |
| | | | -41 | 6 | 18 | 18.7 | 11.9 | 4.2 | 44.6 |
| | | | -42 | 11 | 44 | 21.1 | 12.7 | 2.9 | 55.4 |
| | | | -43 | 20 | 126 | 110 | 23.2 | 12.6 | 4.5 |
| | | | -44 | 41 | 66 | 19.3 | 9.8 | 5.0 | 45.9 |
| | | | -45 | 64 | 55 | 23.6 | 11.9 | 8.6 | 58.1 |
| | | | -46 | 82 | 60 | 22.9 | 11.2 | 5.9 | 48.2 |
| | | | -47 | 92 | 61 | 23.2 | 11.1 | 7.4 | 54.6 |
| | | | -48 | 165 | 59 | 22.0 | 10.5 | 5.6 | 52.8 |
| | | | Σ | 491 | 452 | 22.3 | 11.6 | 2.9 | 58.1 |

Table 3. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 5.9.82 | 327 | 82-49 | 0.5 | 2 | 2 | 18.8 | 18.5 | 5.7 | 31.8 | |
| | | | -50 | 9 | 198 | 179 | 17.6 | 7.0 | 2.6 | 47.3 |
| | | | -51 | 24 | 635 | 320 | 17.8 | 8.7 | 4.3 | 51.9 |
| | | | -52 | 50 | 180 | 172 | 20.8 | 9.9 | 6.2 | 55.0 |
| | | | -54 | 99 | 64 | 60 | 19.0 | 9.7 | 5.5 | 53.5 |
| | | | -55 | 198 | 59 | 57 | 17.5 | 8.8 | 7.2 | 50.2 |
| | | | -56 | 294 | 32 | 23 | 18.3 | 7.3 | 8.5 | 36.2 |
| | | | -58 | 486 | 40 | 30 | 19.1 | 8.9 | 7.0 | 43.0 |
| | | | Σ | 1210 | 843 | 18.3 | 8.8 | 2.6 | 55.0 | |
| 7.9.82 | 313a | 82-59 | 6 | 8 | 8 | 11.4 | 9.1 | 5.0 | 32.5 | |
| | | | -60 | 22 | 53 | 42 | 15.3 | 8.1 | 6.9 | 50.4 |
| | | | -64 | 120 | 53 | 44 | 19.6 | 7.4 | 8.1 | 42.9 |
| | | | -62 | 323 | 24 | 17 | 14.6 | 7.0 | 5.5 | 28.4 |
| | | | -63 | 484 | 27 | 23 | 19.5 | 10.9 | 7.1 | 45.4 |
| | | | Σ | 165 | 134 | 17.9 | 9.1 | 5.1 | 57.2 | |
| | | | | | | | | | | |
| 18.8.83 | 5 | 83-01 | 0.5 | 3 | 3 | 22.9 | 3.9 | 19.0 | 26.7 | |
| | | | -02 | 5 | 166 | 156 | 26.8 | 12.0 | 4.0 | 59.4 |
| | | | -03 | 12 | 172 | 156 | 23.6 | 8.5 | 2.8 | 44.4 |
| | | | -04 | 21 | 86 | 75 | 26.2 | 10.5 | 4.0 | 58.5 |
| | | | -05 | 31 | 32 | 31 | 23.5 | 9.0 | 4.2 | 40.4 |
| | | | -06 | 45 | 18 | 15 | 23.8 | 10.9 | 3.0 | 42.7 |
| | | | Σ | 477 | 436 | 25.2 | 10.4 | 2.8 | 59.4 | |

Table 3. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 25.8.83 | 5 | 83-07 | 0.5 | 5 | 5 | 32.0 | 9.9 | 23.6 | 47.1 |
| | | | -08 | 5 | 14 | 28.7 | 12.5 | 5.4 | 54.3 |
| | | | -09 | 10 | 69 | 20.9 | 8.1 | 4.4 | 39.5 |
| | | | -10 | 19 | 42 | 24.9 | 9.6 | 6.2 | 37.7 |
| | | | -11 | 27 | 58 | 23.4 | 8.7 | 7.4 | 45.7 |
| | | | Σ | | 188 | 144 | 23.3 | 9.4 | 4.4 |

Table 4. Mean lengths of Parathemisto libellula at different depths (m) and for all depths combined (Σ) at various stations in Frobisher Bay from 1978 to 1983. N is the total number of animals in the sample and n the number measured.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|----------|------------------|-----|------|------|------|------|--|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 30.7.78 | 5 | 78-02 | 0.5 | 10 | 10 | 6.3 | 2.2 | 4.0 | 11.0 | |
| | | | -03 | 10 | 54 | 6.5 | 2.3 | 3.5 | 13.0 | |
| | | | -04 | 20 | 23 | 6.0 | 1.9 | 4.2 | 15.0 | |
| | | | -05 | 30 | 11 | 5.5 | 1.8 | 4.0 | 11.0 | |
| | | | -06 | 70 | 100 | 5.5 | 1.4 | 3.2 | 12.5 | |
| | | | Σ | 198 | 198 | 5.9 | 2.0 | 2.6 | 15.0 | |
| 30.7.78 | 51 | 78-07 | 0.5 | 19 | 19 | 4.8 | 0.5 | 4.0 | 6.0 | |
| | | | -08 | 10 | 43 | 15.0 | 3.3 | 4.5 | 23.0 | |
| | | | -09 | 20 | 4 | 4 | 5.6 | 8.0 | 20.0 | |
| | | | -10 | 40 | 6 | 7.3 | 1.6 | 5.5 | 10.0 | |
| | | | -11 | 60 | 7 | 7.1 | 2.1 | 4.5 | 11.0 | |
| | | | -12 | 100 | 28 | 11.9 | 5.5 | 4.5 | 23.0 | |
| | | | Σ | 107 | 107 | 11.5 | 5.5 | 4.0 | 23.0 | |
| 26.8.78 | 5 | 78-13 | 0.5 | 5 | 4 | 9.5 | 4.4 | 7.0 | 16.0 | |
| | | | -14 | 10 | 32 | 12.9 | 5.1 | 4.0 | 30.0 | |
| | | | -15 | 20 | 86 | 17.2 | 4.1 | 7.0 | 29.0 | |
| | | | -16 | 30 | 66 | 17.0 | 4.0 | 4.9 | 23.0 | |
| | | | -17 | 40 | 32 | 9.2 | 4.2 | 4.5 | 25.0 | |
| | | | -18 | 60 | 124 | 62 | 3.3 | 4.5 | 22.0 | |
| | | | Σ | 345 | 281 | 12.6 | 5.8 | 4.0 | 30.0 | |
| 26.8.78 | 51 | 78-19 | 0.5 | 300 | 58 | 6.9 | 1.3 | 5.0 | 11.0 | |
| | | | -20 | 10 | 45 | 15.8 | 3.8 | 6.0 | 22.0 | |
| | | | -21 | 20 | 91 | 18.5 | 4.2 | 6.0 | 30.0 | |
| | | | -22 | 40 | 216 | 17.2 | 4.7 | 5.5 | 30.0 | |
| | | | -23 | 60 | 278 | 17.5 | 4.6 | 4.5 | 33.0 | |
| | | | Σ | 930 | 609 | 14.7 | 6.1 | 4.5 | 33.0 | |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. | |
| 19.9.78 | 5 | 78-25 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -26 | 10 | 4 | 14.0 | 7.4 | 9.0 | 25.0 | |
| | | | -27 | 20 | 5 | 24.2 | 2.6 | 21.0 | 28.0 | |
| | | | -28 | 30 | 28 | 22.1 | 2.6 | 17.0 | 26.0 | |
| | | | -29 | 40 | 52 | 21.8 | 2.0 | 18.0 | 27.0 | |
| | | | -30 | 50 | 10 | 21.7 | 2.0 | 17.0 | 25.0 | |
| | | | Σ | 99 | 99 | 21.7 | 3.0 | 9.0 | 28.0 | |
| 20.9.78 | 51 | 78-31 | 0.5 | 3 | 3 | 12.7 | 6.4 | 9.0 | 20.0 | |
| | | | -32 | 10 | 42 | 13.2 | 4.3 | 8.0 | 25.0 | |
| | | | -33 | 20 | 17 | 18.7 | 3.5 | 11.0 | 24.0 | |
| | | | -34 | 40 | 165 | 164 | 21.7 | 2.3 | 12.0 | 27.0 |
| | | | -35 | 60 | 346 | 155 | 21.5 | 1.9 | 16.0 | 28.0 |
| | | | -36 | 80 | 25 | 21.5 | 2.2 | 17.0 | 25.0 | |
| | | | -37 | 100 | 5 | 22.3 | 1.6 | 21.0 | 25.0 | |
| | | | -38 | 150 | 4 | 21.1 | 0.6 | 20.5 | 22.0 | |
| | | | Σ | 607 | 414 | 20.9 | 3.3 | 8.0 | 28.0 | |
| 28.7.79 | 5 | 79-01 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -02 | 5 | 19 | 8.9 | 3.5 | 5.2 | 15.9 | |
| | | | -03 | 10 | 858 | 150 | 11.4 | 2.4 | 4.2 | 17.6 |
| | | | -04 | 21 | 95 | 89 | 8.9 | 3.3 | 4.1 | 17.1 |
| | | | -05 | 29 | 37 | 37 | 6.8 | 2.3 | 4.7 | 14.5 |
| | | | -06 | 41 | 65 | 65 | 6.7 | 3.2 | 2.5 | 15.0 |
| | | | -07 | 52 | 52 | 52 | 6.1 | 2.1 | 4.1 | 15.2 |
| | | | Σ | 1126 | 412 | 10.5 | 3.4 | 2.5 | 17.6 | |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. | |
| 29.7.79 | 51 | 79-08 | 0.5 | 2 | 2 | 6.1 | 0.8 | 5.5 | 6.6 | |
| | | | -09 | 11 | 154 | 154 | 8.5 | 3.6 | 4.3 | 17.1 |
| | | | -10 | 19 | 63 | 62 | 6.7 | 2.4 | 4.4 | 14.3 |
| | | | -11 | 30 | 52 | 52 | 6.9 | 2.7 | 4.4 | 16.4 |
| | | | -12 | 40 | 88 | 88 | 6.2 | 1.9 | 4.2 | 15.4 |
| | | | -13 | 54 | 77 | 77 | 8.1 | 3.1 | 4.3 | 15.5 |
| | | | -14 | 82 | 104 | 104 | 9.8 | 3.7 | 4.2 | 18.4 |
| | | | -15 | 106 | 80 | 78 | 11.2 | 3.7 | 4.6 | 17.3 |
| | | | -16 | 146 | 18 | 18 | 11.3 | 4.1 | 5.3 | 17.5 |
| | | | Σ | 638 | 635 | 8.4 | 3.6 | 4.2 | 18.4 | |
| 16.8.79 | 51 | 79-17 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -18 | 7 | 42 | 42 | 9.2 | 1.3 | 6.8 | 12.3 |
| | | | -19 | 19 | 35 | 34 | 12.0 | 2.2 | 7.4 | 17.0 |
| | | | -20 | 29 | 60 | 60 | 14.9 | 4.3 | 6.6 | 25.5 |
| | | | -21 | 34 | 95 | 87 | 16.5 | 3.0 | 7.7 | 23.1 |
| | | | -22 | 48 | 108 | 107 | 16.2 | 4.5 | 5.5 | 26.0 |
| | | | -23 | 75 | 150 | 149 | 12.9 | 5.1 | 5.8 | 26.7 |
| | | | -24 | 96 | 56 | 56 | 8.5 | 2.5 | 6.1 | 17.5 |
| | | | -25 | 123 | 69 | 63 | 9.5 | 3.1 | 5.5 | 18.5 |
| | | | Σ | 615 | 598 | 13.1 | 4.9 | 5.5 | 26.7 | |
| 17.8.79 | 5 | 79-26 | 0.5 | 15 | 14 | 7.6 | 0.8 | 6.2 | 8.9 | |
| | | | -27 | 5 | 85 | 85 | 9.8 | 2.0 | 5.6 | 14.8 |
| | | | -28 | 10 | 61 | 60 | 14.2 | 4.0 | 7.8 | 23.7 |
| | | | -29 | 22 | 208 | 206 | 10.9 | 3.5 | 5.2 | 22.4 |
| | | | -30 | 33 | 169 | 166 | 9.3 | 2.2 | 5.5 | 19.2 |
| | | | -31 | 40 | 183 | 182 | 10.6 | 3.2 | 5.8 | 19.6 |
| | | | -32 | 52 | 150 | 150 | 9.0 | 2.3 | 4.7 | 21.9 |
| | | | Σ | 871 | 863 | 10.3 | 3.2 | 4.7 | 23.7 | |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|----------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 11.9.79 | 5 | 79-33 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -34 | 4 | 0 | - | - | - | - |
| | | | -35 | 10 | 73 | 16.5 | 4.2 | 9.5 | 29.3 |
| | | | -36 | 23 | 6 | 21.4 | 4.4 | 17.9 | 31.0 |
| | | | -37 | 34 | 1 | 21.2 | - | 21.2 | 21.2 |
| | | | Σ | 80 | 80 | 16.9 | 4.5 | 9.5 | 31.0 |
| 12.9.79 | 51 | 79-38 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -39 | 8 | 13 | 14.8 | 2.7 | 11.8 | 21.3 |
| | | | -40 | 23 | 139 | 19.8 | 2.7 | 14.8 | 29.8 |
| | | | -41 | 46 | 44 | 20.4 | 2.4 | 14.5 | 29.0 |
| | | | -42 | 62 | 42 | 20.7 | 1.9 | 17.5 | 26.6 |
| | | | -43 | 81 | 2 | 17.2 | 1.2 | 16.0 | 18.3 |
| | | | -44 | 113 | 4 | 12.5 | 3.2 | 9.6 | 17.5 |
| | | | Σ | 244 | 243 | 19.7 | 3.0 | 9.6 | 29.8 |
| 24.9.79 | 5 | 79-45 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -46 | 9 | 0 | - | - | - | - |
| | | | -47 | 9 | 7 | 21.0 | 4.5 | 17.2 | 31.5 |
| | | | -48 | 14 | 40 | 21.4 | 2.9 | 13.9 | 28.8 |
| | | | -49 | 30 | 6 | 21.2 | 3.6 | 17.0 | 28.5 |
| | | | -50 | 41 | 7 | 20.3 | 2.4 | 15.7 | 24.4 |
| | | | Σ | 60 | 60 | 21.2 | 3.2 | 13.9 | 31.5 |

Table 4. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|---|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 25.9.79 | 51 | 79-51 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -52 | 10 | 37 | 15.0 | 1.7 | 11.4 | 18.1 | |
| | | | -53 | 19 | 71 | 20.0 | 2.5 | 13.0 | 29.8 | |
| | | | -54 | 43 | 8 | 23.0 | 1.5 | 20.0 | 24.9 | |
| | | | -56 | 48 | 34 | 23.2 | 2.6 | 18.5 | 31.6 | |
| | | | -55 | 68 | 0 | - | - | - | - | |
| | | | -57 | 98 | 4 | 21.1 | 7.1 | 10.2 | 29.4 | |
| | | | -58 | 145 | 46 | 24.8 | 3.6 | 16.5 | 31.4 | |
| | | | Σ | 200 | 200 | 20.9 | 4.4 | 10.2 | 31.6 | |
| 21.8.80 | 5 | 80-01 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -02 | 3 | 6 | 12.8 | 1.2 | 11.5 | 14.8 | |
| | | | -03 | 10 | 26 | 15.5 | 4.6 | 11.7 | 31.0 | |
| | | | -04 | 18 | 9 | 16.6 | 6.3 | 9.9 | 30.8 | |
| | | | -05 | 30 | 9 | 16.6 | 7.1 | 9.7 | 32.6 | |
| | | | -06 | 34 | 7 | 12.9 | 3.1 | 8.5 | 17.7 | |
| | | | Σ | 57 | 57 | 15.2 | 5.0 | 8.5 | 32.6 | |
| 28.8.80 | 5 | 80-07 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -08 | 5 | 9 | 14.8 | 2.6 | 11.2 | 20.9 | |
| | | | -09 | 12 | 7 | 16.3 | 3.1 | 13.6 | 20.0 | |
| | | | -10 | 20 | 9 | 17.6 | 2.3 | 15.1 | 21.3 | |
| | | | -11 | 32 | 1 | 23.9 | - | 23.9 | 23.9 | |
| | | | -12 | 43 | 7 | 18.3 | 4.0 | 10.1 | 22.1 | |
| | | | Σ | 33 | 31 | 16.9 | 3.3 | 10.1 | 23.9 | |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 31.8.80 | 51 | 80-13 | 0.5 | 2 | 2 | 14.8 | 6.2 | 10.4 | 19.1 |
| | | | -14 | 5 | 9 | 12.1 | 2.2 | 9.3 | 16.3 |
| | | | -15 | 11 | 11 | 15.8 | 1.6 | 13.1 | 18.4 |
| | | | -16 | 20 | 15 | 19.9 | 2.7 | 14.7 | 23.5 |
| | | | -17 | 26 | 64 | 19.9 | 2.7 | 10.9 | 25.1 |
| | | | -18 | 63 | 0 | - | - | - | - |
| | | | -19 | 70 | 12 | 20.4 | 2.9 | 12.2 | 23.7 |
| | | | -20 | 132 | 46 | 12.5 | 2.1 | 8.2 | 18.6 |
| | | | Σ | 159 | 159 | 17.0 | 4.3 | 8.2 | 25.1 |
| 2.9.80 | 5 | 80-21 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -22 | 6 | 7 | 13.8 | 3.2 | 9.8 | 17.8 |
| | | | -23 | 12 | 10 | 15.0 | 2.6 | 10.9 | 20.0 |
| | | | -24 | 24 | 6 | 17.8 | 5.1 | 12.9 | 25.5 |
| | | | -25 | 40 | 1 | 11.9 | - | 11.9 | 11.9 |
| | | | -26 | 45 | 5 | 23.5 | 3.3 | 20.6 | 29.2 |
| | | | Σ | 29 | 29 | 16.7 | 4.8 | 9.8 | 29.2 |
| 5.9.80 | 5 | 80-28 | 0.5 | 3 | 3 | 15.3 | 8.9 | 5.1 | 20.9 |
| | | | -29 | 6 | 14 | 14.3 | 2.2 | 12.0 | 21.3 |
| | | | -30 | 12 | 7 | 14.6 | 1.2 | 13.1 | 16.3 |
| | | | -31 | 23 | 3 | 17.2 | 4.9 | 11.6 | 20.5 |
| | | | -32 | 38 | 9 | 16.9 | 2.7 | 14.1 | 20.7 |
| | | | -33 | 44 | 5 | 16.9 | 4.0 | 12.8 | 21.4 |
| | | | Σ | 41 | 41 | 15.5 | 3.4 | 5.1 | 21.4 |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 10.9.80 | 5 | 80-34 | 0.5 | 3 | 3 | 12.9 | 3.5 | 9.4 | 16.3 |
| | | | -35 | 5 | 5 | 14.6 | 3.4 | 9.3 | 17.6 |
| | | | -36 | 11 | 2 | 21.2 | 4.1 | 18.3 | 24.1 |
| | | | -37 | 21 | 5 | 21.2 | 0.7 | 20.5 | 21.5 |
| | | | -38 | 33 | 11 | 19.9 | 2.0 | 15.4 | 22.0 |
| | | | -39 | 49 | 1 | 21.8 | - | 21.8 | 21.8 |
| | | | Σ | 27 | 26 | 18.5 | 3.9 | 9.3 | 24.1 |
| 12.9.80 | 5 | 80-40 | 0.5 | 1 | 0 | - | - | - | - |
| | | | -41 | 5 | 4 | 15.2 | 4.9 | 8.3 | 19.8 |
| | | | -42 | 12 | 5 | 16.8 | 5.2 | 11.6 | 23.9 |
| | | | -43 | 26 | 0 | - | - | - | - |
| | | | -44 | 35 | 7 | 20.4 | 1.9 | 16.9 | 21.9 |
| | | | -45 | 55 | 1 | 16.9 | - | 16.9 | 16.9 |
| | | | Σ | 18 | 17 | 17.9 | 4.2 | 8.3 | 23.9 |
| 3.8.81 | 5 | 81-01 | 0.5 | 13 | 12 | 6.8 | 2.0 | 4.5 | 10.8 |
| | | | -02 | 5 | 30 | 30 | 6.7 | 2.0 | 4.4 |
| | | | -03 | 9 | 58 | 58 | 8.0 | 4.7 | 4.0 |
| | | | -04 | 21 | 60 | 60 | 7.3 | 2.1 | 3.7 |
| | | | -05 | 39 | 135 | 135 | 5.8 | 1.6 | 3.0 |
| | | | -06 | 40 | 480 | 92 | 5.8 | 2.2 | 4.0 |
| | | | | | | | | | 23.6 |

Table 4. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. |
| 4.8.81 | 51 | 81-07 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -08 | 5 | 93 | 6.5 | 2.2 | 4.1 | 24.1 |
| | | | -09 | 10 | 62 | 7.8 | 3.7 | 4.1 | 22.5 |
| | | | -10 | 22 | 32 | 7.9 | 5.8 | 4.3 | 26.6 |
| | | | -11 | 36 | 32 | 7.0 | 4.3 | 4.4 | 23.5 |
| | | | -12 | 62 | 65 | 5.8 | 1.2 | 4.1 | 9.9 |
| | | | -13 | 83 | 39 | 6.9 | 1.4 | 4.4 | 10.7 |
| | | | -14 | 118 | 72 | 8.4 | 5.4 | 4.3 | 31.7 |
| | | | -15 | 135 | 56 | 7.9 | 4.9 | 4.1 | 26.9 |
| | | | Σ | 451 | 448 | 7.2 | 3.9 | 4.1 | 31.7 |
| 10.8.81 | 5 | 81-16 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -17 | 5 | 19 | 6.2 | 1.1 | 4.9 | 9.8 |
| | | | -18 | 9 | 11 | 7.3 | 2.2 | 4.7 | 13.0 |
| | | | -19 | 13 | 3 | 15.9 | 11.1 | 4.6 | 26.8 |
| | | | -20 | 26 | 8 | 11.2 | 8.0 | 4.9 | 26.2 |
| | | | -21 | 28 | 22 | 8.5 | 6.2 | 4.1 | 30.4 |
| | | | -22 | 47 | 23 | 5.9 | 1.3 | 4.6 | 9.5 |
| | | | Σ | 86 | 86 | 7.6 | 5.0 | 4.1 | 30.4 |
| | | | | | | | | | |
| 21.8.81 | 5 | 81-23 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -24 | 2 | 0 | - | - | - | - |
| | | | -25 | 6 | 7 | 11.1 | 2.3 | 9.5 | 13.6 |
| | | | -26 | 13 | 5 | 12.9 | 10.3 | 5.5 | 30.3 |
| | | | -27 | 23 | 6 | 8.0 | 1.6 | 6.5 | 10.5 |
| | | | -28 | 33 | 5 | 8.3 | 1.4 | 7.0 | 9.9 |
| | | | Σ | 23 | 23 | 10.1 | 5.1 | 5.5 | 30.3 |
| | | | | | | | | | |

Table 4. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|--|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 24.8.81 | 51 | 81-29 | 0.5 | 614 | 150 | 8.5 | 1.2 | 5.2 | 11.6 | |
| | | -30 | 5 | 71 | 71 | 12.5 | 4.1 | 8.1 | 27.5 | |
| | | -31 | 9 | 72 | 72 | 18.5 | 6.6 | 8.0 | 34.0 | |
| | | -32 | 18 | 21 | 21 | 17.5 | 9.1 | 8.0 | 33.3 | |
| | | -33 | 44 | 60 | 60 | 10.6 | 4.8 | 6.1 | 28.7 | |
| | | -34 | 59 | 61 | 61 | 9.5 | 4.6 | 5.2 | 29.0 | |
| | | -35 | 87 | 78 | 73 | 9.7 | 3.4 | 5.9 | 31.9 | |
| | | -36 | 115 | 189 | 95 | 13.0 | 7.4 | 5.9 | 34.6 | |
| | | -37 | 144 | 287 | 99 | 15.1 | 7.9 | 6.8 | 34.4 | |
| | | Σ | | 1453 | 702 | 11.4 | 6.4 | 5.2 | 34.6 | |
| 2.9.81 | 5 | 81-38 | 0.5 | 0 | 0 | - | - | - | - | |
| | | -39 | 6 | 31 | 31 | 11.4 | 2.9 | 6.4 | 18.4 | |
| | | -40 | 10 | 11 | 11 | 15.6 | 4.9 | 10.0 | 28.2 | |
| | | -41 | 21 | 19 | 19 | 14.8 | 2.7 | 10.8 | 19.5 | |
| | | -42 | 29 | 14 | 14 | 14.0 | 3.5 | 7.6 | 18.9 | |
| | | -43 | 37 | 7 | 7 | 11.2 | 4.5 | 3.8 | 18.6 | |
| | | Σ | | 82 | 82 | 13.2 | 3.9 | 3.8 | 29.2 | |
| 7.9.81 | 5 | 81-44 | 0.5 | 0 | 0 | - | - | - | - | |
| | | -45 | 6 | 2 | 2 | 8.2 | 3.5 | 5.7 | 10.7 | |
| | | -46 | 9 | 11 | 11 | 12.4 | 5.6 | 4.7 | 24.8 | |
| | | -47 | 19 | 26 | 26 | 17.7 | 5.1 | 4.5 | 26.5 | |
| | | -48 | 33 | 7 | 7 | 20.7 | 10.0 | 8.7 | 33.6 | |
| | | -49 | 38 | 16 | 16 | 25.1 | 6.6 | 12.4 | 34.0 | |
| | | -50 | 50 | 8 | 8 | 17.6 | 6.2 | 8.4 | 29.5 | |
| | | Σ | | 70 | 70 | 18.6 | 7.6 | 4.5 | 34.0 | |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 10.9.81 | 51 | 81-51 | 0.5 | 10 | 10 | 9.1 | 1.3 | 8.0 | 11.9 |
| | | | -52 | 6 | 154 | 11.9 | 2.8 | 7.6 | 26.2 |
| | | | -53 | 10 | 35 | 16.4 | 5.6 | 9.2 | 28.8 |
| | | | -54 | 23 | 18 | 21.1 | 4.8 | 11.9 | 28.4 |
| | | | -55 | 44 | 17 | 20.4 | 8.7 | 8.2 | 30.5 |
| | | | -56 | 59 | 12 | 26.5 | 3.5 | 15.8 | 30.2 |
| | | | -57 | 86 | 15 | 16.8 | 9.8 | 4.1 | 32.8 |
| | | | -58 | 120 | 66 | 14.4 | 5.4 | 8.2 | 31.9 |
| | | | -59 | 164 | 182 | 12.6 | 3.9 | 7.8 | 31.4 |
| | | | Σ | 509 | 417 | 13.8 | 5.7 | 4.1 | 32.8 |
| 13.9.81 | 5 | 81-60 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -61 | 5 | 17 | 12.0 | 1.6 | 10.1 | 17.4 |
| | | | -62 | 10 | 45 | 15.9 | 4.3 | 10.7 | 31.2 |
| | | | -63 | 21 | 13 | 19.3 | 4.6 | 12.2 | 28.8 |
| | | | -64 | 28 | 35 | 18.2 | 3.3 | 12.8 | 28.3 |
| | | | -65 | 47 | 6 | 17.0 | 1.4 | 15.5 | 19.1 |
| | | | -66 | 62 | 29 | 14.8 | 3.0 | 10.4 | 22.6 |
| | | | Σ | 145 | 145 | 16.1 | 4.1 | 10.1 | 31.2 |
| | | | | | | | | | |
| 8.8.82 | 5 | 82-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -02 | 5 | 16 | 8.4 | 2.2 | 5.6 | 12.6 |
| | | | -03 | 11 | 32 | 7.9 | 3.3 | 4.7 | 23.4 |
| | | | -04 | 16 | 35 | 8.0 | 2.3 | 5.6 | 18.3 |
| | | | -05 | 21 | 86 | 6.8 | 1.6 | 4.1 | 11.2 |
| | | | -06 | 28 | 98 | 7.1 | 2.0 | 3.9 | 14.6 |
| | | | -07 | 41 | 252 | 7.2 | 1.5 | 4.7 | 13.2 |
| | | | -08 | 48 | 419 | 7.1 | 1.7 | 4.7 | 13.5 |
| | | | Σ | 938 | 502 | 7.2 | 1.8 | 3.9 | 23.4 |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|----------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 13.8.82 | 51 | 82-09 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -10 | 8 | 75 | 9.3 | 2.9 | 5.2 | 19.7 |
| | | | -11 | 11 | 47 | 9.4 | 1.9 | 6.9 | 15.9 |
| | | | -12 | 19 | 39 | 9.3 | 2.8 | 5.3 | 18.0 |
| | | | -13 | 48 | 12 | 7.8 | 1.4 | 5.3 | 9.8 |
| | | | -14 | 56 | 9 | 8.6 | 1.9 | 6.3 | 12.5 |
| | | | -15 | 77 | 11 | 9.7 | 1.8 | 7.5 | 13.0 |
| | | | -16 | 88 | 12 | 9.8 | 3.3 | 5.2 | 15.3 |
| | | | -17 | 170 | 3 | 7.6 | 0.1 | 7.5 | 7.6 |
| | | | Σ | 208 | 207 | 9.2 | 2.6 | 5.2 | 19.7 |
| 14.8.82 | 327 | 82-18 | 0.5 | 7 | 7 | 6.8 | 1.4 | 5.9 | 9.8 |
| | | | -19 | 1 | 12 | 8.6 | 1.8 | 6.5 | 12.0 |
| | | | -20 | 4 | 858 | 9.2 | 2.5 | 4.8 | 19.7 |
| | | | -21 | 10 | 158 | 8.3 | 2.3 | 4.9 | 15.5 |
| | | | -22 | 21 | 114 | 7.7 | 1.9 | 4.4 | 15.2 |
| | | | -23 | 49 | 51 | 8.7 | 2.1 | 5.7 | 19.0 |
| | | | -24 | 101 | 25 | 8.5 | 2.5 | 5.4 | 15.6 |
| | | | -25 | 244 | 53 | 10.1 | 2.4 | 6.0 | 18.3 |
| | | | Σ | 1278 | 462 | 8.9 | 2.4 | 4.4 | 19.7 |
| 24.8.82 | 5 | 82-29 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -30 | 5 | 12 | 10.9 | 3.0 | 7.1 | 17.4 |
| | | | -31 | 12 | 7 | 14.1 | 6.8 | 7.1 | 26.1 |
| | | | -32 | 27 | 7 | 9.7 | 2.7 | 5.7 | 14.3 |
| | | | -33 | 48 | 12 | 8.1 | 1.2 | 6.6 | 9.9 |
| | | | Σ | 38 | 38 | 10.4 | 4.0 | 5.7 | 26.1 |

Table 4. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|--------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 2.9.82 | 5 | 82-34 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -35 | 5 | 7 | 13.4 | 3.6 | 8.7 | 19.5 |
| | | | -36 | 8 | 25 | 12.7 | 3.0 | 7.2 | 19.2 |
| | | | -37 | 18 | 8 | 15.0 | 7.4 | 7.2 | 28.2 |
| | | | -38 | 27 | 2 | 8.0 | 3.0 | 5.8 | 10.1 |
| | | | -39 | 36 | 10 | 11.5 | 2.8 | 6.5 | 14.7 |
| | | | Σ | | 52 | 12.7 | 4.1 | 5.8 | 28.2 |
| 3.9.82 | 51 | 82-40 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -41 | 6 | 6 | 13.4 | 2.5 | 11.1 | 17.9 |
| | | | -42 | 11 | 12 | 16.4 | 3.3 | 11.3 | 21.5 |
| | | | -43 | 20 | 1 | 14.4 | - | 14.4 | 14.4 |
| | | | -44 | 41 | 2 | 20.0 | 1.0 | 19.3 | 20.7 |
| | | | -45 | 64 | 1 | 7.6 | - | 7.6 | 7.6 |
| | | | -46 | 82 | 0 | - | - | - | - |
| | | | -47 | 92 | 6 | 12.4 | 6.2 | 7.4 | 21.0 |
| | | | -48 | 165 | 3 | 8.9 | 2.4 | 6.6 | 11.4 |
| | | | Σ | | 31 | 14.2 | 4.6 | 6.6 | 21.5 |
| 5.9.82 | 327 | 82-49 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -50 | 9 | 6 | 15.0 | 5.1 | 10.0 | 22.2 |
| | | | -51 | 24 | 3 | 15.9 | 3.6 | 12.4 | 19.6 |
| | | | -52 | 50 | 2 | 15.7 | 3.0 | 13.5 | 17.8 |
| | | | -54 | 99 | 4 | 12.6 | 2.4 | 10.3 | 15.2 |
| | | | -55 | 198 | 91 | 11.7 | 1.8 | 6.6 | 16.8 |
| | | | -56 | 294 | 6 | 10.7 | 2.1 | 8.7 | 13.9 |
| | | | -58 | 486 | 5 | 9.8 | 4.2 | 4.4 | 16.1 |
| | | | Σ | | 117 | 11.9 | 2.5 | 4.4 | 22.2 |

Table 4. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. |
| 7.9.82 | 313a | 82-59 | 6 | 216 | 93 | 11.1 | 2.1 | 7.2 | 17.7 |
| | | -60 | 22 | 32 | 32 | 15.2 | 4.7 | 7.7 | 21.9 |
| | | -64 | 120 | 8 | 8 | 16.0 | 4.1 | 9.8 | 21.1 |
| | | -62 | 323 | 8 | 8 | 11.1 | 3.1 | 8.5 | 18.4 |
| | | -63 | 484 | 19 | 19 | 10.7 | 2.6 | 7.3 | 19.2 |
| | | Σ | | 283 | 160 | 11.7 | 3.6 | 7.2 | 21.9 |
| 18.8.83 | 5 | 83-01 | 0.5 | 1 | 0 | - | - | - | - |
| | | -02 | 5 | 12 | 11 | 7.0 | 2.5 | 4.1 | 12.8 |
| | | -03 | 12 | 18 | 18 | 9.2 | 7.7 | 5.1 | 32.5 |
| | | -04 | 21 | 25 | 24 | 6.0 | 1.2 | 4.0 | 7.5 |
| | | -05 | 31 | 74 | 71 | 6.1 | 3.1 | 3.5 | 30.4 |
| | | -06 | 45 | 594 | 124 | 7.0 | 2.8 | 4.0 | 27.0 |
| | | Σ | | 704 | 248 | 7.1 | 3.5 | 3.5 | 32.5 |
| 25.8.83 | 5 | 83-07 | 0.5 | 9 | 9 | 9.1 | 2.9 | 4.5 | 15.3 |
| | | -08 | 5 | 5 | 5 | 16.3 | 7.7 | 7.5 | 25.1 |
| | | -09 | 10 | 2 | 2 | 14.9 | 11.0 | 7.1 | 22.6 |
| | | -10 | 19 | 22 | 22 | 7.0 | 1.6 | 4.0 | 10.0 |
| | | -11 | 27 | 1 | 1 | 9.7 | - | 9.7 | 9.7 |
| | | Σ | | 39 | 39 | 9.2 | 4.9 | 4.0 | 25.1 |

Table 5. Mean lengths of Sagitta elegans at different depths (m) and for all depths combined (Σ) at various stations in Frobisher Bay from 1978 to 1983. N is the total number of animals in the sample and n is the number measured.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | |
|---------|---------|------------|----------|------------------|------|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. |
| 30.7.78 | 5 | 78-02 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -03 | 10 | 49 | 26.1 | 2.3 | 20.0 | 30.0 |
| | | | -04 | 20 | 48 | 25.9 | 3.1 | 16.0 | 30.0 |
| | | | -05 | 30 | 76 | 25.9 | 2.8 | 15.0 | 31.0 |
| | | | -06 | 70 | 686 | 27.6 | 3.2 | 15.0 | 39.0 |
| | | | Σ | 859 | 489 | 27.3 | 3.2 | 15.0 | 39.0 |
| 30.7.78 | 51 | 78-07 | 0.5 | 1 | 1 | 27.0 | - | 27.0 | 27.0 |
| | | | -08 | 10 | 0 | - | - | - | - |
| | | | -09 | 20 | 3 | 21.0 | - | 21.0 | 21.0 |
| | | | -10 | 40 | 3 | 25.0 | 6.6 | 18.0 | 31.0 |
| | | | -11 | 60 | 1 | 25.0 | - | 25.0 | 25.0 |
| | | | -12 | 100 | 46 | 27.5 | 2.8 | 22.0 | 34.0 |
| | | | Σ | 54 | 52 | 27.2 | 3.1 | 18.0 | 34.0 |
| 26.8.78 | 5 | 78-13 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -14 | 10 | 1 | 29.5 | - | 29.5 | 29.5 |
| | | | -15 | 20 | 34 | 23.0 | 5.7 | 15.0 | 33.0 |
| | | | -16 | 30 | 16 | 24.5 | 5.1 | 17.0 | 36.0 |
| | | | -17 | 40 | 138 | 29.2 | 2.7 | 24.0 | 37.0 |
| | | | -18 | 60 | 1520 | 30.2 | 3.0 | 23.0 | 37.0 |
| | | | Σ | 1709 | 210 | 29.9 | 3.3 | 15.0 | 37.0 |
| 26.8.78 | 51 | 78-19 | 0.5 | 23 | 19 | 27.0 | 2.7 | 20.0 | 31.0 |
| | | | -20 | 10 | 2 | 29.0 | 1.4 | 28.0 | 30.0 |
| | | | -21 | 20 | 7 | - | - | - | - |
| | | | -22 | 40 | 191 | 30.4 | 2.9 | 22.0 | 38.0 |
| | | | -23 | 60 | 255 | 29.6 | 3.1 | 22.0 | 39.0 |
| | | | Σ | 478 | 235 | 29.8 | 3.1 | 20.0 | 39.0 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 19.9.78 | 5 | 78-25 | 0.5 | 2 | 2 | 30.5 | 5.0 | 27.0 | 34.0 |
| | | -26 | 10 | 68 | 67 | 31.4 | 3.1 | 24.0 | 37.0 |
| | | -27 | 20 | 136 | 72 | 31.2 | 3.8 | 13.0 | 37.0 |
| | | -28 | 30 | 295 | 74 | 32.4 | 3.5 | 19.0 | 40.0 |
| | | -29 | 40 | 336 | 88 | 32.8 | 3.5 | 24.0 | 44.0 |
| | | -30 | 50 | 755 | 92 | 31.8 | 4.3 | 12.0 | 41.5 |
| | | Σ | | 1592 | 395 | 32.1 | 3.9 | 12.0 | 44.0 |
| 20.9.78 | 51 | 78-31 | 0.5 | 0 | 0 | - | - | - | - |
| | | -32 | 10 | 0 | 0 | - | - | - | - |
| | | -33 | 20 | 1 | 0 | - | - | - | - |
| | | -34 | 40 | 12 | 2 | 30.6 | 3.1 | 26.0 | 36.0 |
| | | -35 | 60 | 28 | 27 | 29.8 | 3.1 | 24.0 | 36.0 |
| | | -36 | 80 | 509 | 127 | 33.1 | 2.2 | 28.0 | 41.0 |
| | | -37 | 100 | 308 | 74 | 32.6 | 2.6 | 24.0 | 40.0 |
| | | -38 | 150 | 262 | 65 | 33.0 | 3.0 | 26.0 | 41.0 |
| | | Σ | | 1120 | 295 | 32.8 | 2.5 | 24.0 | 41.0 |
| 28.7.79 | 5 | 79-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | -02 | 5 | 0 | 0 | - | - | - | - |
| | | -03 | 10 | 5 | 5 | 27.0 | 4.0 | 20.0 | 32.5 |
| | | -04 | 21 | 6 | 6 | 22.0 | 4.0 | 15.2 | 25.9 |
| | | -05 | 29 | 39 | 38 | 24.9 | 3.2 | 18.0 | 32.0 |
| | | -06 | 41 | 55 | 53 | 23.9 | 3.6 | 17.0 | 33.0 |
| | | -07 | 52 | 63 | 60 | 24.5 | 3.1 | 16.0 | 30.0 |
| | | Σ | | 168 | 162 | 24.4 | 3.5 | 15.2 | 33.0 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|------|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 29.7.79 | 51 | 79-08 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -09 | 11 | 5 | 20.4 | 5.7 | 7.5 | 27.0 |
| | | | -10 | 19 | 5 | 21.4 | 4.9 | 13.0 | 28.0 |
| | | | -11 | 30 | 6 | 23.3 | 3.0 | 19.0 | 28.0 |
| | | | -12 | 40 | 12 | 20.0 | 2.1 | 16.0 | 23.0 |
| | | | -13 | 54 | 31 | 22.3 | 3.8 | 15.0 | 33.0 |
| | | | -14 | 82 | 90 | 22.7 | 3.4 | 15.0 | 31.0 |
| | | | -15 | 106 | 81 | 24.8 | 3.5 | 17.0 | 34.0 |
| | | | -16 | 146 | 59 | 25.8 | 4.0 | 17.0 | 38.0 |
| | | | Σ | 289 | 280 | 23.6 | 4.0 | 7.5 | 38.0 |
| 16.8.79 | 51 | 79-17 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -18 | 7 | 0 | - | - | - | - |
| | | | -19 | 19 | 0 | - | - | - | - |
| | | | -20 | 29 | 0 | - | - | - | - |
| | | | -21 | 34 | 1 | 8.5 | - | 8.5 | 8.5 |
| | | | -22 | 48 | 4 | 22.8 | 3.1 | 20.0 | 28.0 |
| | | | -23 | 75 | 17 | 22.1 | 4.6 | 16.0 | 31.0 |
| | | | -24 | 96 | 14 | 26.2 | 3.5 | 20.0 | 31.0 |
| | | | -25 | 123 | 63 | 26.4 | 5.1 | 18.0 | 44.0 |
| | | | Σ | 99 | 95 | 25.3 | 5.3 | 8.5 | 44.0 |
| 17.8.79 | 5 | 79-26 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -27 | 5 | 40 | 27.2 | 3.3 | 20.0 | 33.0 |
| | | | -28 | 10 | 217 | 27.6 | 3.3 | 20.0 | 34.0 |
| | | | -29 | 22 | 718 | 28.4 | 4.1 | 18.5 | 42.0 |
| | | | -30 | 33 | 812 | 29.1 | 4.6 | 19.0 | 40.0 |
| | | | -31 | 40 | 844 | 28.1 | 3.5 | 20.0 | 37.0 |
| | | | -32 | 52 | 1227 | 29.0 | 3.7 | 20.0 | 41.0 |
| | | | Σ | 3858 | 674 | 28.6 | 4.0 | 18.5 | 42.0 |

Table 5. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. |
| 11.9.79 | 5 | 79-33 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -34 | 4 | 0 | - | - | - | - |
| | | | -35 | 10 | 1 | 22.0 | - | 22.0 | 22.0 |
| | | | -36 | 23 | 41 | 30.7 | 3.7 | 20.0 | 37.0 |
| | | | -37 | 34 | 62 | 31.2 | 4.0 | 12.0 | 38.0 |
| | | | Σ | 104 | 103 | 30.9 | 4.0 | 12.0 | 38.0 |
| 12.9.79 | 51 | 79-38 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -39 | 8 | 0 | - | - | - | - |
| | | | -40 | 23 | 0 | - | - | - | - |
| | | | -41 | 46 | 4 | 21.3 | 7.1 | 12.0 | 30.0 |
| | | | -42 | 62 | 20 | 28.8 | 3.3 | 21.0 | 33.0 |
| | | | -43 | 81 | 25 | 30.7 | 2.6 | 26.0 | 36.0 |
| | | | -44 | 113 | 145 | 30.7 | 2.9 | 23.0 | 41.5 |
| | | | Σ | 194 | 188 | 30.3 | 3.4 | 12.0 | 41.5 |
| 24.9.79 | 5 | 79-45 | 0.5 | 1 | 1 | 30.0 | - | 30.0 | 30.0 |
| | | | -46 | 9 | 1 | 30.0 | - | 30.0 | 30.0 |
| | | | -47 | 9 | 2 | 30.5 | 2.5 | 28.0 | 33.0 |
| | | | -48 | 14 | 8 | 30.4 | 3.2 | 27.0 | 35.0 |
| | | | -49 | 30 | 78 | 32.0 | 4.0 | 11.0 | 39.0 |
| | | | -50 | 41 | 303 | 32.4 | 3.6 | 23.0 | 43.0 |
| | | | Σ | 393 | 214 | 32.3 | 3.7 | 11.0 | 43.0 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 25.9.79 | 51 | 79-51 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -52 | 10 | 1 | - | - | - | - |
| | | | -53 | 19 | 0 | - | - | - | - |
| | | | -54 | 43 | 2 | 24.0 | 8.0 | 16.0 | 32.0 |
| | | | -56 | 48 | 2 | 28.0 | 1.0 | 27.0 | 29.0 |
| | | | -55 | 68 | 77 | 30.3 | 3.4 | 22.0 | 40.0 |
| | | | -57 | 98 | 245 | 32.2 | 3.4 | 25.0 | 40.0 |
| | | | -58 | 145 | 921 | 33.4 | 3.1 | 26.0 | 42.0 |
| | | | Σ | 1248 | 262 | 32.9 | 3.3 | 16.0 | 42.0 |
| 21.8.80 | 5 | 80-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -02 | 3 | 0 | - | - | - | - |
| | | | -03 | 10 | 35 | 28.0 | 5.1 | 17.8 | 36.1 |
| | | | -04 | 18 | 64 | 26.3 | 3.7 | 21.1 | 35.4 |
| | | | -05 | 30 | 342 | 27.8 | 3.9 | 18.4 | 37.5 |
| | | | -06 | 34 | 898 | 28.8 | 3.9 | 21.0 | 37.6 |
| | | | Σ | 1339 | 382 | 28.4 | 3.9 | 17.8 | 37.6 |
| 28.8.80 | 5 | 80-07 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -08 | 5 | 0 | - | - | - | - |
| | | | -09 | 12 | 4 | 32.1 | 4.6 | 25.8 | 36.2 |
| | | | -10 | 20 | 52 | 31.0 | 2.9 | 24.7 | 38.6 |
| | | | -11 | 32 | 50 | 30.4 | 2.7 | 23.8 | 37.2 |
| | | | -12 | 43 | 264 | 31.0 | 3.7 | 21.1 | 40.8 |
| | | | Σ | 370 | 236 | 30.9 | 3.5 | 21.1 | 40.8 |

Table 5. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|---|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 31.8.80 | 51 | 80-13 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -14 | 5 | 0 | - | - | - | - | - |
| | | | -15 | 11 | 3 | 30.1 | 0.6 | 29.4 | 30.6 | |
| | | | -16 | 20 | 3 | 29.5 | 5.1 | 23.9 | 33.8 | |
| | | | -17 | 26 | 3 | 29.9 | 4.5 | 18.8 | 26.7 | |
| | | | -18 | 63 | 51 | 30.6 | 3.4 | 21.4 | 39.0 | |
| | | | -19 | 70 | 128 | 29.8 | 3.5 | 22.1 | 38.3 | |
| | | | -20 | 132 | 228 | 30.8 | 3.3 | 20.8 | 41.0 | |
| | | | Σ | 416 | 305 | 30.4 | 3.5 | 18.8 | 41.0 | |
| 2.9.80 | 5 | 80-21 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -22 | 6 | 0 | - | - | - | - | - |
| | | | -23 | 12 | 3 | 30.4 | 5.7 | 24.2 | 35.3 | |
| | | | -24 | 24 | 14 | 28.6 | 5.3 | 12.2 | 34.7 | |
| | | | -25 | 40 | 27 | 31.1 | 4.3 | 23.2 | 39.5 | |
| | | | -26 | 45 | 188 | 31.6 | 3.7 | 13.1 | 41.2 | |
| | | | Σ | 232 | 227 | 31.3 | 4.0 | 12.2 | 41.2 | |
| 5.9.80 | 5 | 80-28 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -29 | 6 | 1 | 26.2 | - | 26.2 | 26.2 | |
| | | | -30 | 12 | 19 | 30.8 | 4.1 | 23.8 | 40.2 | |
| | | | -31 | 23 | 123 | 31.6 | 3.2 | 23.4 | 38.7 | |
| | | | -32 | 38 | 351 | 29.2 | 3.9 | 18.4 | 40.0 | |
| | | | -33 | 44 | 687 | 30.5 | 3.4 | 21.4 | 39.0 | |
| | | | Σ | 1181 | 492 | 30.2 | 3.6 | 18.4 | 40.2 | |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|----|------|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 10.9.80 | 5 | 80-34 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -35 | 5 | 1 | 0 | - | - | - |
| | | | -36 | 11 | 2 | 2 | 35.1 | 5.2 | 31.4 |
| | | | -37 | 21 | 16 | 14 | 28.7 | 7.5 | 8.7 |
| | | | -38 | 33 | 447 | 105 | 33.1 | 2.9 | 34.5 |
| | | | -39 | 49 | 750 | 173 | 32.0 | 3.2 | 24.4 |
| | | | Σ | | 1216 | 294 | 32.4 | 3.3 | 39.3 |
| 12.9.80 | 5 | 80-40 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -41 | 5 | 0 | 0 | - | - | - |
| | | | -42 | 12 | 14 | 14 | 24.9 | 8.7 | 10.6 |
| | | | -43 | 26 | 169 | 165 | 30.9 | 4.2 | 34.6 |
| | | | -44 | 35 | 265 | 139 | 31.7 | 3.3 | 9.7 |
| | | | -45 | 55 | 257 | 121 | 31.3 | 4.5 | 40.7 |
| | | | Σ | | 705 | 439 | 31.2 | 4.2 | 38.5 |
| 3.8.81 | 5 | 81-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -02 | 5 | 2 | 2 | 27.4 | 0.3 | 27.1 |
| | | | -03 | 9 | 19 | 18 | 26.2 | 3.1 | 27.7 |
| | | | -04 | 21 | 20 | 19 | 27.7 | 2.7 | 19.1 |
| | | | -05 | 39 | 124 | 120 | 28.6 | 3.9 | 32.4 |
| | | | -06 | 40 | 225 | 108 | 28.5 | 3.6 | 40.4 |
| | | | Σ | | 390 | 267 | 28.4 | 3.7 | 39.6 |

Table 5. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|---------|------------------|-----|------|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 4.8.81 | 51 | 81-07 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -08 | 5 | 0 | - | - | - | - | |
| | | | -09 | 10 | 1 | 27.5 | - | 27.5 | 27.5 | |
| | | | -10 | 22 | 1 | 31.8 | - | 31.8 | 31.8 | |
| | | | -11 | 36 | 1 | 21.1 | - | 21.1 | 21.1 | |
| | | | -12 | 62 | 15 | 26.2 | 3.4 | 20.1 | 33.8 | |
| | | | -13 | 83 | 30 | 28.1 | 2.8 | 23.3 | 36.6 | |
| | | | -14 | 118 | 128 | 27.6 | 3.4 | 20.7 | 37.8 | |
| | | | -15 | 135 | 149 | 27.5 | 3.2 | 19.9 | 38.7 | |
| | | | Σ | 325 | 311 | 27.5 | 3.3 | 19.9 | 38.7 | |
| 10.8.81 | 5 | 81-16 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -17 | 5 | 0 | - | - | - | - | |
| | | | -18 | 9 | 21 | 25.8 | 2.8 | 18.7 | 30.8 | |
| | | | -19 | 13 | 61 | 26.8 | 2.7 | 20.2 | 32.8 | |
| | | | -20 | 26 | 188 | 28.4 | 3.2 | 21.6 | 39.0 | |
| | | | -21 | 28 | 184 | 27.4 | 3.8 | 19.5 | 38.7 | |
| | | | -22 | 47 | 116 | 28.2 | 3.5 | 17.8 | 38.8 | |
| | | | Σ | 570 | 366 | 27.7 | 3.4 | 17.8 | 39.0 | |
| | | | 21.8.81 | 0.5 | 0 | - | - | - | - | |
| | | | | -24 | 2 | 2 | 26.4 | 4.4 | 23.3 | 29.5 |
| | | | | -25 | 6 | 3 | 30.4 | 1.2 | 29.7 | 31.8 |
| | | | | -26 | 13 | 52 | 27.7 | 3.0 | 22.5 | 34.8 |
| | | | | -27 | 23 | 137 | 29.3 | 3.3 | 19.8 | 41.4 |
| | | | | -28 | 33 | 192 | 30.3 | 3.9 | 19.1 | 41.5 |
| | | | | Σ | 386 | 287 | 29.6 | 3.6 | 19.1 | 41.5 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 24.8.81 | 51 | 81-29 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -30 | 5 | 0 | - | - | - | - |
| | | | -31 | 9 | 0 | - | - | - | - |
| | | | -32 | 18 | 0 | - | - | - | - |
| | | | -33 | 44 | 6 | 25.5 | 5.1 | 17.8 | 31.4 |
| | | | -34 | 59 | 18 | 27.2 | 4.2 | 13.3 | 33.4 |
| | | | -35 | 87 | 84 | 28.6 | 3.6 | 19.8 | 39.9 |
| | | | -36 | 115 | 310 | 30.7 | 3.9 | 22.1 | 41.4 |
| | | | -37 | 144 | 582 | 30.6 | 3.6 | 22.3 | 43.3 |
| | | | Σ | 1000 | 380 | 30.4 | 3.8 | 13.3 | 43.3 |
| 2.9.81 | 5 | 81-38 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -39 | 6 | 2 | 30.9 | 1.1 | 30.1 | 31.7 |
| | | | -40 | 10 | 14 | 28.4 | 5.3 | 13.9 | 35.3 |
| | | | -41 | 21 | 72 | 29.4 | 4.1 | 22.3 | 38.6 |
| | | | -42 | 29 | 104 | 30.4 | 3.9 | 18.0 | 41.1 |
| | | | -43 | 37 | 77 | 29.8 | 3.6 | 21.2 | 39.0 |
| | | | Σ | 269 | 267 | 29.9 | 4.0 | 13.9 | 41.1 |
| 7.9.81 | 5 | 81-44 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -45 | 6 | 2 | - | - | - | - |
| | | | -46 | 9 | 1 | 33.2 | - | 33.2 | 33.2 |
| | | | -47 | 19 | 8 | 26.2 | 7.5 | 11.6 | 34.9 |
| | | | -48 | 33 | 6 | 28.5 | 1.5 | 26.6 | 30.9 |
| | | | -49 | 38 | 10 | 29.2 | 4.3 | 21.6 | 36.7 |
| | | | -50 | 50 | 43 | 30.5 | 4.4 | 15.0 | 44.4 |
| | | | Σ | 70 | 68 | 29.7 | 4.9 | 11.6 | 44.4 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. | |
| 10.9.81 | 51 | 81-51 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -52 | 6 | 0 | - | - | - | - | |
| | | | -53 | 10 | 0 | - | - | - | - | |
| | | | -54 | 23 | 8 | 28.4 | 2.7 | 23.6 | 31.5 | |
| | | | -55 | 44 | 34 | 30.2 | 3.4 | 24.7 | 41.5 | |
| | | | -56 | 59 | 204 | 29.9 | 3.0 | 21.7 | 40.7 | |
| | | | -57 | 86 | 116 | 30.1 | 3.1 | 21.9 | 37.5 | |
| | | | -58 | 120 | 266 | 32.4 | 3.5 | 24.9 | 44.0 | |
| | | | -59 | 164 | 328 | 32.8 | 3.6 | 24.6 | 46.2 | |
| | | | Σ | 956 | 549 | 31.6 | 3.6 | 21.7 | 46.2 | |
| 13.9.81 | 5 | 81-60 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -61 | 5 | 0 | - | - | - | - | |
| | | | -62 | 10 | 0 | - | - | - | - | |
| | | | -63 | 21 | 2 | 13.6 | 0.8 | 13.0 | 14.1 | |
| | | | -64 | 28 | 26 | 28.6 | 7.6 | 11.0 | 40.7 | |
| | | | -65 | 47 | 34 | 30.8 | 4.4 | 16.1 | 38.8 | |
| | | | -66 | 62 | 156 | 31.7 | 3.8 | 14.2 | 41.1 | |
| | | | Σ | 218 | 215 | 31.0 | 4.9 | 11.0 | 41.1 | |
| | | | 82-01 | 0.5 | 0 | - | - | - | - | |
| | | | | -02 | 5 | 15 | 28.2 | 3.2 | 22.1 | 33.4 |
| | | | | -03 | 11 | 37 | 27.9 | 5.0 | 19.7 | 41.5 |
| | | | | -04 | 16 | 63 | 27.7 | 4.3 | 19.9 | 41.8 |
| | | | | -05 | 21 | 101 | 27.9 | 4.0 | 18.2 | 38.4 |
| | | | | -06 | 28 | 201 | 29.3 | 4.4 | 19.6 | 43.8 |
| | | | | -07 | 41 | 165 | 27.7 | 4.4 | 16.7 | 46.0 |
| | | | | -08 | 48 | 197 | 27.8 | 4.8 | 14.7 | 44.5 |
| | | | | Σ | 779 | 586 | 28.2 | 4.5 | 14.7 | 46.0 |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 13.8.82 | 51 | 82-09 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -10 | 8 | 3 | 23.1 | 3.5 | 19.6 | 26.6 |
| | | | -11 | 11 | 2 | 27.1 | 0.6 | 26.7 | 27.5 |
| | | | -12 | 19 | 13 | 23.0 | 3.3 | 18.2 | 31.1 |
| | | | -13 | 48 | 28 | 25.0 | 3.8 | 17.0 | 32.3 |
| | | | -14 | 56 | 42 | 24.8 | 3.6 | 18.5 | 35.6 |
| | | | -15 | 77 | 144 | 27.7 | 3.5 | 19.1 | 40.7 |
| | | | -16 | 88 | 73 | 28.1 | 4.1 | 20.1 | 39.9 |
| | | | -17 | 170 | 130 | 28.6 | 5.5 | 16.4 | 41.3 |
| | | | Σ | 435 | 435 | 27.4 | 4.6 | 16.4 | 41.3 |
| 14.8.82 | 327 | 82-18 | 0.5 | 1 | 0 | - | - | - | - |
| | | | -19 | 1 | 0 | - | - | - | - |
| | | | -20 | 4 | 0 | - | - | - | - |
| | | | -21 | 10 | 0 | - | - | - | - |
| | | | -22 | 21 | 33 | 25.9 | 3.1 | 16.7 | 31.2 |
| | | | -23 | 49 | 7 | 26.6 | 3.5 | 19.5 | 30.3 |
| | | | -24 | 101 | 119 | 29.5 | 3.8 | 20.5 | 40.5 |
| | | | -25 | 244 | 85 | 30.0 | 4.5 | 18.9 | 40.5 |
| | | | Σ | 245 | 244 | 29.1 | 4.2 | 16.7 | 40.5 |
| | | | | | | | | | |
| 24.8.82 | 5 | 82-29 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -30 | 5 | 5 | 28.2 | 5.2 | 22.6 | 35.5 |
| | | | -31 | 12 | 28 | 28.5 | 3.7 | 21.5 | 38.6 |
| | | | -32 | 27 | 46 | 28.0 | 3.5 | 21.2 | 36.4 |
| | | | -33 | 48 | 217 | 30.3 | 4.0 | 21.1 | 40.7 |
| | | | Σ | 296 | 180 | 29.7 | 4.0 | 21.1 | 40.7 |
| | | | | | | | | | |

Table 5. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|--------|---------|------------|-------|------------------|-----|------|------|------|------|---|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 2.9.82 | 5 | 82-34 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -35 | 5 | 1 | 35.7 | - | 35.7 | 35.7 | |
| | | | -36 | 8 | 2 | 27.5 | 0.9 | 26.8 | 28.1 | |
| | | | -37 | 18 | 65 | 31.0 | 4.5 | 23.9 | 42.0 | |
| | | | -38 | 27 | 72 | 28.9 | 4.1 | 12.5 | 39.8 | |
| | | | -39 | 36 | 143 | 29.3 | 3.7 | 19.7 | 39.4 | |
| | | | Σ | 283 | 281 | 29.6 | 4.1 | 12.5 | 42.0 | |
| 3.9.82 | 51 | 82-40 | 0.5 | 1 | 0 | - | - | - | - | - |
| | | | -41 | 6 | 0 | - | - | - | - | - |
| | | | -42 | 11 | 0 | - | - | - | - | - |
| | | | -43 | 20 | 19 | 27.4 | 3.6 | 21.2 | 36.7 | |
| | | | -44 | 41 | 29 | 29.4 | 2.7 | 24.7 | 35.6 | |
| | | | -45 | 64 | 44 | 30.1 | 3.1 | 20.5 | 36.2 | |
| | | | -46 | 82 | 39 | 31.2 | 4.2 | 20.5 | 40.6 | |
| | | | -47 | 92 | 61 | 29.4 | 4.3 | 12.8 | 40.5 | |
| | | | -48 | 165 | 349 | 32.6 | 4.2 | 24.4 | 42.3 | |
| | | | Σ | 542 | 341 | 31.5 | 4.3 | 12.8 | 42.3 | |
| 5.9.82 | 327 | 82-49 | 0.5 | 1 | 1 | 19.2 | - | 19.2 | 19.2 | |
| | | | -50 | 9 | 0 | - | - | - | - | - |
| | | | -51 | 24 | 4 | 34.8 | 4.8 | 28.7 | 40.3 | |
| | | | -52 | 50 | 59 | 31.3 | 3.8 | 23.6 | 41.5 | |
| | | | -54 | 99 | 36 | 32.3 | 4.0 | 25.1 | 41.4 | |
| | | | -55 | 198 | 80 | 32.3 | 4.2 | 22.5 | 42.7 | |
| | | | -56 | 294 | 32 | 32.3 | 3.7 | 25.7 | 38.4 | |
| | | | -58 | 486 | 54 | 30.5 | 4.7 | 15.7 | 40.7 | |
| | | | Σ | 266 | 266 | 31.7 | 4.2 | 15.7 | 42.7 | |

Table 5. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 7.9.82 | 313a | 82-59 | 6 | 0 | 0 | - | - | - | - |
| | | -60 | 22 | 0 | 0 | - | - | - | - |
| | | -64 | 120 | 45 | 45 | 32.6 | 3.7 | 26.9 | 41.7 |
| | | -62 | 323 | 35 | 35 | 32.9 | 4.3 | 24.4 | 44.4 |
| | | -63 | 484 | 52 | 52 | 32.2 | 3.2 | 25.5 | 41.0 |
| | | Σ | | 132 | 132 | 32.5 | 3.7 | 24.4 | 41.7 |
| 18.8.83 | 5 | 83-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | -02 | 5 | 3 | 3 | 22.5 | 1.3 | 21.3 | 23.8 |
| | | -03 | 12 | 41 | 41 | 25.8 | 3.0 | 17.7 | 30.9 |
| | | -04 | 21 | 220 | 111 | 27.2 | 4.7 | 15.5 | 39.6 |
| | | -05 | 31 | 473 | 124 | 30.9 | 5.0 | 20.0 | 43.9 |
| | | -06 | 45 | 862 | 111 | 32.7 | 3.7 | 21.9 | 41.3 |
| | | Σ | | 1599 | 390 | 31.2 | 5.1 | 15.5 | 43.9 |
| 25.8.83 | 5 | 83-07 | 0.5 | 0 | 0 | - | - | - | - |
| | | -08 | 5 | 6 | 6 | 28.1 | 4.9 | 23.9 | 36.4 |
| | | -09 | 10 | 158 | 155 | 29.8 | 3.8 | 21.9 | 42.6 |
| | | -10 | 19 | 287 | 147 | 29.9 | 4.4 | 20.9 | 41.9 |
| | | -11 | 27 | 87 | 84 | 28.6 | 4.4 | 20.1 | 40.6 |
| | | Σ | | 538 | 392 | 29.6 | 4.2 | 20.1 | 42.6 |

Table 6. Mean lengths of Thysanoessa inermis at different depths (m) and for all depths combined (Σ) at various stations in Frobisher Bay from 1978 to 1983. N is the total number of animals in the sample and n the number measured.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|----------|------------------|-----|------|------|------|------|------|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 30.7.78 | 5 | 78(02-06)* | <70 | 0 | 0 | - | - | - | - | - |
| 30.7.78 | 51 | 78-07 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -08 | 10 | 3 | 18.4 | 1.8 | 16.5 | 20.0 | |
| | | | -09 | 20 | 0 | - | - | - | - | - |
| | | | -10 | 40 | 8 | 20.9 | 2.9 | 17.7 | 26.6 | |
| | | | -11 | 60 | 7 | 23.8 | 2.7 | 19.0 | 27.3 | |
| | | | -12 | 100 | 10 | 27.1 | 3.6 | 18.4 | 30.8 | |
| | | | Σ | 28 | 27 | 23.4 | 4.3 | 16.5 | 30.8 | |
| 26.8.78 | 5 | 78-13 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -14 | 10 | 0 | - | - | - | - | - |
| | | | -15 | 20 | 0 | - | - | - | - | - |
| | | | -16 | 30 | 0 | - | - | - | - | - |
| | | | -17 | 40 | 1 | 19.6 | - | 19.6 | 19.6 | |
| | | | -18 | 60 | 10 | 22.3 | 3.5 | 17.7 | 27.5 | |
| | | | Σ | 11 | 11 | | | | | |
| 26.8.78 | 51 | 78-19 | 0.5 | 0 | 0 | - | - | - | - | - |
| | | | -20 | 10 | 0 | - | - | - | - | - |
| | | | -21 | 20 | 0 | - | - | - | - | - |
| | | | -22 | 40 | 204 | 204 | 26.9 | 3.0 | 17.5 | 33.8 |
| | | | -23 | 60 | 297 | 297 | 27.3 | 2.7 | 11.9 | 33.2 |
| | | | Σ | 501 | 501 | 27.1 | 2.8 | 11.9 | 33.8 | |

* Where few or no animals were collected at a given station the data is presented in a compressed format that includes all depths sampled.

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 19.9.78 | 5 | 78-25 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -26 | 10 | 1 | 30.1 | - | 30.1 | 30.1 |
| | | | -27 | 20 | 0 | - | - | - | - |
| | | | -28 | 30 | 0 | - | - | - | - |
| | | | -29 | 40 | 0 | - | - | - | - |
| | | | -30 | 50 | 0 | - | - | - | - |
| | | | Σ | | 1 | 30.1 | - | 30.1 | 30.1 |
| 20.9.78 | 51 | 78-31 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -32 | 10 | 0 | - | - | - | - |
| | | | -33 | 20 | 0 | - | - | - | - |
| | | | -34 | 40 | 0 | - | - | - | - |
| | | | -35 | 60 | 2 | 28.4 | 2.2 | 26.8 | 29.9 |
| | | | -36 | 80 | 3 | 24.3 | 0.6 | 23.7 | 24.8 |
| | | | -37 | 100 | 7 | 26.0 | 2.5 | 22.2 | 28.8 |
| | | | -38 | 150 | 7 | 28.5 | 4.5 | 21.3 | 35.5 |
| | | | Σ | | 19 | 26.9 | 3.4 | 21.3 | 35.5 |
| 28.7.79 | 5 | 79(01-07) | <52 | 1 | 0 | - | - | - | - |
| 29.7.79 | 51 | 79-08 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -09 | 11 | 0 | - | - | - | - |
| | | | -10 | 19 | 2 | - | - | - | - |
| | | | -11 | 30 | 1 | - | - | - | - |
| | | | -12 | 40 | 3 | 13.9 | 3.1 | 11.3 | 17.3 |
| | | | -13 | 54 | 15 | 15.5 | 4.4 | 8.8 | 25.2 |
| | | | -14 | 82 | 26 | 20.2 | 5.7 | 8.7 | 29.3 |
| | | | -15 | 106 | 92 | 26.4 | 4.8 | 11.6 | 33.6 |
| | | | -16 | 146 | 7 | 24.5 | 6.2 | 17.9 | 33.0 |
| | | | Σ | | 142 | 23.8 | 6.3 | 8.7 | 33.6 |

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 16.8.79 | 51 | 79-17 | 0.5 | 0 | 0 | - | - | - | - |
| | | -18 | 7 | 0 | 0 | - | - | - | - |
| | | -19 | 19 | 0 | 0 | - | - | - | - |
| | | -20 | 29 | 0 | 0 | - | - | - | - |
| | | -21 | 34 | 0 | 0 | - | - | - | - |
| | | -22 | 48 | 2 | 2 | 22.3 | 5.2 | 18.6 | 26.0 |
| | | -23 | 75 | 12 | 12 | 20.7 | 3.0 | 17.1 | 26.2 |
| | | -24 | 96 | 40 | 40 | 18.6 | 3.5 | 13.1 | 29.3 |
| | | -25 | 123 | 460 | 230 | 23.4 | 4.2 | 12.2 | 31.4 |
| | | Σ | | 514 | 284 | 23.0 | 4.4 | 12.2 | 31.4 |
| 17.8.79 | 5 | 79-26 | 0.5 | 0 | 0 | - | - | - | - |
| | | -27 | 5 | 0 | 0 | - | - | - | - |
| | | -28 | 10 | 5 | 5 | 17.8 | 2.4 | 14.3 | 21.1 |
| | | -29 | 22 | 14 | 14 | 17.2 | 2.7 | 11.7 | 21.0 |
| | | -30 | 33 | 47 | 47 | 19.0 | 4.6 | 11.6 | 29.8 |
| | | -31 | 40 | 67 | 65 | 21.8 | 4.6 | 14.8 | 33.6 |
| | | -32 | 52 | 53 | 53 | 19.7 | 4.3 | 11.4 | 33.0 |
| | | Σ | | 186 | 184 | 20.0 | 4.6 | 11.4 | 33.6 |
| 11.9.79 | 5 | 79-33 | 0.5 | 0 | 0 | - | - | - | - |
| | | -34 | 4 | 0 | 0 | - | - | - | - |
| | | -35 | 10 | 0 | 0 | - | - | - | - |
| | | -36 | 23 | 1 | 1 | 21.3 | - | 21.3 | 21.3 |
| | | -37 | 34 | 3 | 3 | 19.1 | 3.9 | 14.6 | 21.4 |
| | | Σ | | 4 | 4 | 19.6 | 3.4 | 14.6 | 21.4 |

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 12.9.79 | 51 | 79-38 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -39 | 8 | 0 | - | - | - | - |
| | | | -40 | 23 | 0 | - | - | - | - |
| | | | -41 | 46 | 1 | 22.0 | - | 22.0 | 22.0 |
| | | | -42 | 62 | 2 | 26.4 | 5.0 | 22.9 | 29.9 |
| | | | -43 | 81 | 2 | 18.2 | 1.2 | 17.3 | 19.0 |
| | | | -44 | 113 | 108 | 25.4 | 3.4 | 18.2 | 32.4 |
| | | | Σ | | 113 | 25.3 | 3.5 | 17.3 | 32.4 |
| 24.9.79 | 5 | 79(45-50) | <41 | 1 | 1 | 20.0 | - | 20.0 | 20.0 |
| 25.9.79 | 51 | 79-51 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -52 | 10 | 0 | - | - | - | - |
| | | | -53 | 19 | 0 | - | - | - | - |
| | | | -54 | 43 | 0 | - | - | - | - |
| | | | -56 | 48 | 0 | - | - | - | - |
| | | | -55 | 68 | 0 | - | - | - | - |
| | | | -57 | 98 | 4 | 21.9 | 1.9 | 20.1 | 23.8 |
| | | | -58 | 145 | 6 | 28.6 | 3.7 | 22.7 | 34.3 |
| 21.8.80 | 5 | 80-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -02 | 3 | 0 | - | - | - | - |
| | | | -03 | 10 | 2 | 17.2 | 1.3 | 16.2 | 18.1 |
| | | | -04 | 18 | 0 | - | - | - | - |
| | | | -05 | 30 | 3 | 15.7 | 3.0 | 12.8 | 18.8 |
| | | | -06 | 34 | 15 | 17.4 | 2.4 | 12.2 | 20.5 |
| | | | Σ | | 20 | 17.1 | 2.4 | 12.2 | 20.5 |

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 28.8.80 | 5 | 80(07-12) | <43 | 0 | 0 | - | - | - | - |
| 31.8.80 | 51 | 80-13 | 0.5 | 0 | 0 | - | - | - | - |
| | | -14 | 5 | 0 | 0 | - | - | - | - |
| | | -15 | 11 | 1 | 1 | 20.4 | - | 20.4 | 20.4 |
| | | -16 | 20 | 1 | 1 | 18.5 | - | 18.5 | 18.5 |
| | | -17 | 26 | 3 | 3 | 16.4 | 3.0 | 13.4 | 19.3 |
| | | -18 | 63 | 0 | 0 | - | - | - | - |
| | | -19 | 70 | 1 | 0 | - | - | - | - |
| | | -20 | 132 | 160 | 157 | 22.0 | 3.6 | 14.5 | 31.9 |
| | | Σ | | 166 | 162 | 21.9 | 3.7 | 13.4 | 31.9 |
| 2.9.80 | 5 | 80-21 | 0.5 | 0 | 0 | - | - | - | - |
| | | -22 | 6 | 0 | 0 | - | - | - | - |
| | | -23 | 12 | 0 | 0 | - | - | - | - |
| | | -24 | 24 | 1 | 1 | 19.1 | - | 19.1 | 19.1 |
| | | -25 | 40 | 8 | 7 | 19.4 | 1.7 | 16.3 | 21.3 |
| | | -26 | 45 | 9 | 9 | 19.5 | 2.5 | 14.0 | 21.8 |
| | | Σ | | 18 | 17 | 19.4 | 2.1 | 14.0 | 21.8 |
| 5.9.80 | 5 | 80-28 | 0.5 | 2 | 0 | - | - | - | - |
| | | -29 | 6 | 0 | 0 | - | - | - | - |
| | | -30 | 12 | 3 | 3 | 18.8 | 2.6 | 16.8 | 21.7 |
| | | -31 | 23 | 11 | 11 | 20.0 | 2.2 | 15.4 | 23.0 |
| | | -32 | 38 | 14 | 13 | 18.8 | 3.2 | 13.3 | 23.6 |
| | | -33 | 44 | 68 | 64 | 20.6 | 2.5 | 12.6 | 27.7 |
| | | Σ | | 98 | 91 | 20.3 | 2.6 | 12.6 | 27.7 |

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|------|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 10.9.80 | 5 | 80-34 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -35 | 5 | 0 | - | - | - | - |
| | | | -36 | 11 | 0 | - | - | - | - |
| | | | -37 | 21 | 1 | 19.9 | - | 19.9 | 19.9 |
| | | | -38 | 33 | 4 | 19.1 | 1.9 | 16.8 | 20.7 |
| | | | -39 | 49 | 2 | 16.0 | 0.9 | 15.3 | 16.6 |
| | | | Σ | | 7 | 18.3 | 2.2 | 15.3 | 20.7 |
| 12.9.80 | 5 | 80-40 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -41 | 5 | 1 | 15.1 | - | 15.1 | 15.1 |
| | | | -42 | 12 | 0 | - | - | - | - |
| | | | -43 | 26 | 4 | 18.7 | 2.5 | 15.8 | 21.8 |
| | | | -44 | 35 | 7 | 20.3 | 1.9 | 18.7 | 24.1 |
| | | | -45 | 55 | 4 | 24.0 | 3.2 | 21.8 | 28.8 |
| | | | Σ | | 16 | 20.5 | 3.3 | 15.1 | 28.8 |
| 3.8.81 | 5 | 81(01-06) | <40 | 0 | 0 | - | - | - | - |
| 4.8.81 | 51 | 81-07 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -08 | 5 | 0 | - | - | - | - |
| | | | -09 | 10 | 1 | 21.8 | - | 21.8 | 21.8 |
| | | | -10 | 22 | 18 | 21.2 | 2.2 | 16.7 | 25.2 |
| | | | -11 | 36 | 34 | 21.6 | 2.5 | 16.3 | 26.5 |
| | | | -12 | 62 | 42 | 22.7 | 1.9 | 17.0 | 25.6 |
| | | | -13 | 83 | 175 | 24.6 | 2.0 | 19.3 | 30.0 |
| | | | -14 | 118 | 544 | 26.1 | 2.5 | 22.2 | 34.5 |
| | | | -15 | 135 | 267 | 25.8 | 2.4 | 11.5 | 33.2 |
| | | | Σ | 1081 | 522 | 25.4 | 2.7 | 11.5 | 34.5 |

Table 6. Continued.

| Date | Station | Collection | Depth | Body Length (mm) | | | | | | |
|---------|---------|------------|-------|------------------|-----|------|------|------|------|--|
| | | | | N | n | Mean | S.D. | Min. | Max. | |
| 10.8.81 | 5 | 81(16-22) | <47 | 2 | 2 | 18.3 | 1.3 | 17.5 | 19.1 | |
| 21.8.81 | 5 | 81(23-28) | <33 | 2 | 2 | 26.0 | 1.9 | 24.6 | 27.3 | |
| 24.8.81 | 51 | 81-29 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -30 | 5 | 0 | - | - | - | - | |
| | | | -31 | 9 | 18 | 21.5 | 2.6 | 17.5 | 24.9 | |
| | | | -32 | 18 | 3 | 21.5 | 1.0 | 20.6 | 22.5 | |
| | | | -33 | 44 | 12 | 24.9 | 1.4 | 22.9 | 28.1 | |
| | | | -34 | 59 | 6 | 22.6 | 3.4 | 18.9 | 28.4 | |
| | | | -35 | 87 | 215 | 25.5 | 1.8 | 20.4 | 31.3 | |
| | | | -36 | 115 | 604 | 26.4 | 2.1 | 21.3 | 33.9 | |
| | | | -37 | 144 | 355 | 26.8 | 2.8 | 21.6 | 33.1 | |
| | | | Σ | 1213 | 589 | 26.2 | 2.4 | 18.9 | 38.7 | |
| 2.9.81 | 5 | 81(38-43) | <37 | 0 | 0 | - | - | - | - | |
| 7.9.81 | 5 | 81-44 | 0.5 | 0 | 0 | - | - | - | - | |
| | | | -45 | 6 | 0 | - | - | - | - | |
| | | | -46 | 9 | 0 | - | - | - | - | |
| | | | -47 | 19 | 0 | - | - | - | - | |
| | | | -48 | 33 | 4 | 24.2 | 3.4 | 19.2 | 27.4 | |
| | | | -49 | 38 | 1 | 27.8 | - | 27.8 | 27.8 | |
| | | | -50 | 50 | 0 | - | - | - | - | |
| | | | Σ | 5 | 5 | 24.9 | 3.7 | 19.2 | 27.8 | |

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|---------|---------|------------|-------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 10.9.81 | 51 | 81-51 | 0.5 | 0 | 0 | - | - | - | - |
| | | -52 | 6 | 0 | 0 | - | - | - | - |
| | | -53 | 10 | 0 | 0 | - | - | - | - |
| | | -54 | 23 | 2 | 2 | 23.3 | 4.2 | 20.3 | 26.2 |
| | | -55 | 44 | 5 | 5 | 26.1 | 2.1 | 22.7 | 27.7 |
| | | -56 | 59 | 3 | 3 | 20.1 | 0.1 | 20.0 | 20.1 |
| | | -57 | 86 | 18 | 18 | 22.0 | 3.3 | 15.0 | 26.6 |
| | | -58 | 120 | 106 | 105 | 26.7 | 2.2 | 22.9 | 34.4 |
| | | -59 | 164 | 155 | 152 | 27.0 | 1.9 | 22.3 | 33.8 |
| | | Σ | | 289 | 285 | 26.5 | 2.5 | 15.0 | 34.4 |
| 13.9.81 | 5 | 81-60 | 0.5 | 0 | 0 | - | - | - | - |
| | | -61 | 5 | 0 | 0 | - | - | - | - |
| | | -62 | 10 | 0 | 0 | - | - | - | - |
| | | -63 | 21 | 0 | 0 | - | - | - | - |
| | | -64 | 28 | 0 | 0 | - | - | - | - |
| | | -65 | 47 | 2 | 2 | 25.7 | 1.0 | 25.0 | 26.4 |
| | | -66 | 62 | 2 | 2 | 24.9 | 1.2 | 24.0 | 25.7 |
| | | Σ | | 4 | 4 | 25.3 | 1.0 | 24.0 | 26.4 |
| | | 82-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | -02 | 5 | 0 | 0 | - | - | - | - |
| 8.8.82 | 5 | -03 | 11 | 0 | 0 | - | - | - | - |
| | | -04 | 16 | 0 | 0 | - | - | - | - |
| | | -05 | 21 | 0 | 0 | - | - | - | - |
| | | -06 | 28 | 7 | 7 | 17.5 | 2.2 | 13.8 | 20.2 |
| | | -07 | 41 | 2 | 2 | 17.7 | 1.0 | 17.0 | 18.4 |
| | | -08 | 48 | 15 | 15 | 19.7 | 1.6 | 17.5 | 22.7 |
| | | Σ | | 24 | 24 | 18.9 | 2.0 | 13.8 | 22.7 |

Table 6. Continued.

Table 6. Continued.

| Date | Station | Collection | Depth | N | n | Body Length (mm) | | | |
|--------|---------|------------|----------|-----|-----|------------------|------|------|------|
| | | | | | | Mean | S.D. | Min. | Max. |
| 3.9.82 | 51 | 82-40 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -41 | 6 | 0 | - | - | - | - |
| | | | -42 | 11 | 5 | 19.3 | 1.0 | 18.1 | 20.8 |
| | | | -43 | 20 | 4 | 19.3 | 0.5 | 18.8 | 19.8 |
| | | | -44 | 41 | 5 | 17.8 | 1.6 | 15.7 | 19.4 |
| | | | -45 | 64 | 8 | 19.1 | 1.9 | 16.2 | 21.7 |
| | | | -46 | 82 | 15 | 19.6 | 1.4 | 17.3 | 22.4 |
| | | | -47 | 92 | 44 | 24.3 | 3.6 | 19.5 | 32.2 |
| | | | -48 | 165 | 19 | 25.1 | 4.6 | 18.5 | 30.7 |
| | | | Σ | 100 | 100 | 22.5 | 4.1 | 15.7 | 32.2 |
| 5.9.82 | 327 | 82-49 | 0.5 | 0 | 0 | - | - | - | - |
| | | | -50 | 9 | 0 | - | - | - | - |
| | | | -51 | 24 | 0 | - | - | - | - |
| | | | -52 | 50 | 0 | - | - | - | - |
| | | | -54 | 99 | 4 | 22.4 | 4.4 | 17.7 | 28.3 |
| | | | -55 | 198 | 13 | 27.1 | 4.0 | 18.2 | 31.9 |
| | | | -56 | 294 | 6 | 26.8 | 3.0 | 23.2 | 31.0 |
| | | | -58 | 486 | 10 | 24.5 | 4.3 | 17.3 | 28.7 |
| | | | Σ | 33 | 33 | 25.7 | 4.1 | 17.3 | 31.9 |
| | | | | | | | | | |
| 7.9.82 | 313a | 82-59 | 6 | 0 | 0 | - | - | - | - |
| | | | -60 | 22 | 0 | - | - | - | - |
| | | | -64 | 120 | 1 | 17.4 | - | 17.4 | 17.4 |
| | | | -62 | 323 | 2 | 25.4 | 4.7 | 22.1 | 28.7 |
| | | | -63 | 484 | 2 | 23.0 | 6.7 | 18.2 | 27.7 |
| | | | Σ | 5 | 5 | 22.8 | 5.2 | 17.4 | 28.7 |

Table 6. Continued.

| <u>Date</u> | <u>Station</u> | <u>Collection</u> | <u>Depth</u> | Body Length (mm) | | | | | |
|-------------|----------------|-------------------|--------------|------------------|----------|-------------|-------------|-------------|-------------|
| | | | | <u>N</u> | <u>n</u> | <u>Mean</u> | <u>S.D.</u> | <u>Min.</u> | <u>Max.</u> |
| 18.8.83 | 5 | 83-01 | 0.5 | 0 | 0 | - | - | - | - |
| | | -02 | 5 | 0 | 0 | - | - | - | - |
| | | -03 | 12 | 0 | 0 | - | - | - | - |
| | | -04 | 21 | 1 | 1 | 17.6 | - | 17.6 | 17.6 |
| | | -05 | 31 | 2 | 2 | 21.6 | 4.6 | 18.3 | 24.8 |
| | | -06 | 45 | 1 | 1 | 17.6 | - | 17.6 | 17.6 |
| | | Σ | | 4 | 4 | 19.6 | 3.5 | 17.6 | 24.8 |
| 25.8.83 | 5 | 83(07-11) | <27 | 0 | 0 | - | - | - | - |

RESULTS

LIST OF FIGURES

Figure 1. Length frequency histograms for Mertensia ovum collected during the 1981 to 1983 open water seasons at stations in Frobisher Bay.

Figure 2. Length frequency histograms for Parathemisto libellula collected during the 1978 to 1983 open water seasons at stations in Frobisher Bay.

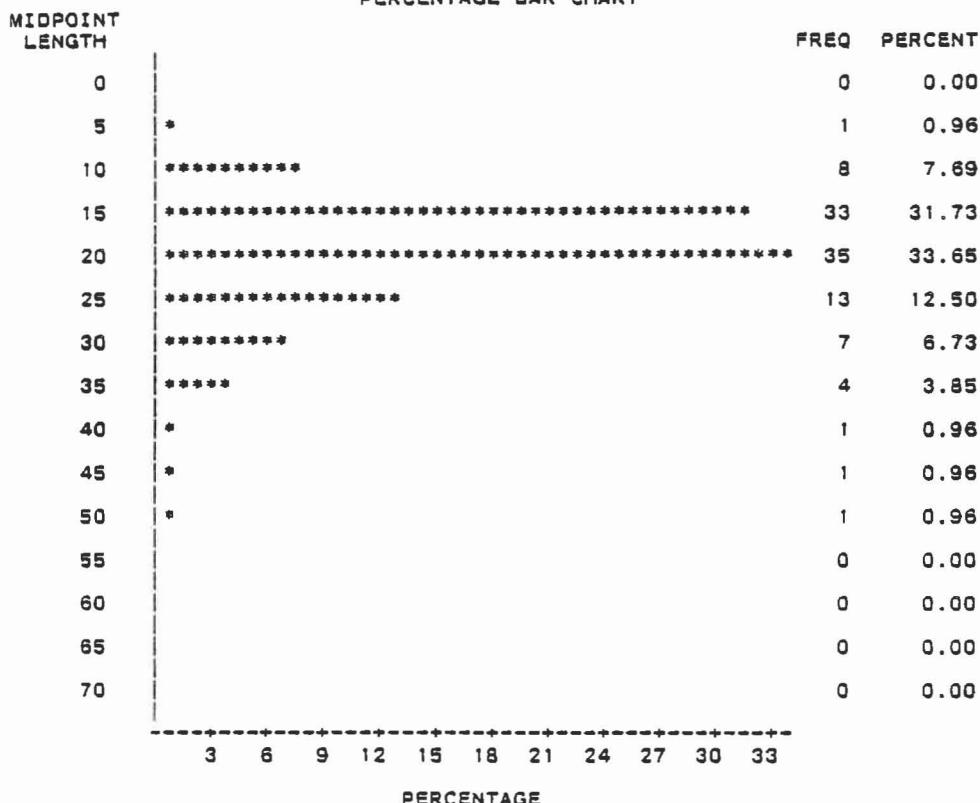
Figure 3. Length frequency histograms for Sagitta elegans collected during the 1978 to 1983 open water seasons at stations in Frobisher Bay.

Figure 4. Length frequency histograms for Thysanoessa inermis collected during the 1978 to 1982 open water seasons at stations in Frobisher Bay.

Figure 1. Length frequency histograms for Mertensia ovum collected during the 1981 to 1983 open water seasons at various stations in Frobisher Bay. The code number in each chart title indicates the species (M), the year of collection (81) and the numbers of the collections from which length data were combined in preparing the histogram (e.g. M8101.06 indicates that length measurements for Mertensia from the 1981 collections numbered 01 to 06 inclusive were pooled). The date of collection and the station number can be obtained by referring to collection numbers listed in Table 1. The histograms are presented in chronological order.

MERTENSIA OVUM LENGTH FREQUENCY M8101.06

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8107.15

PERCENTAGE BAR CHART

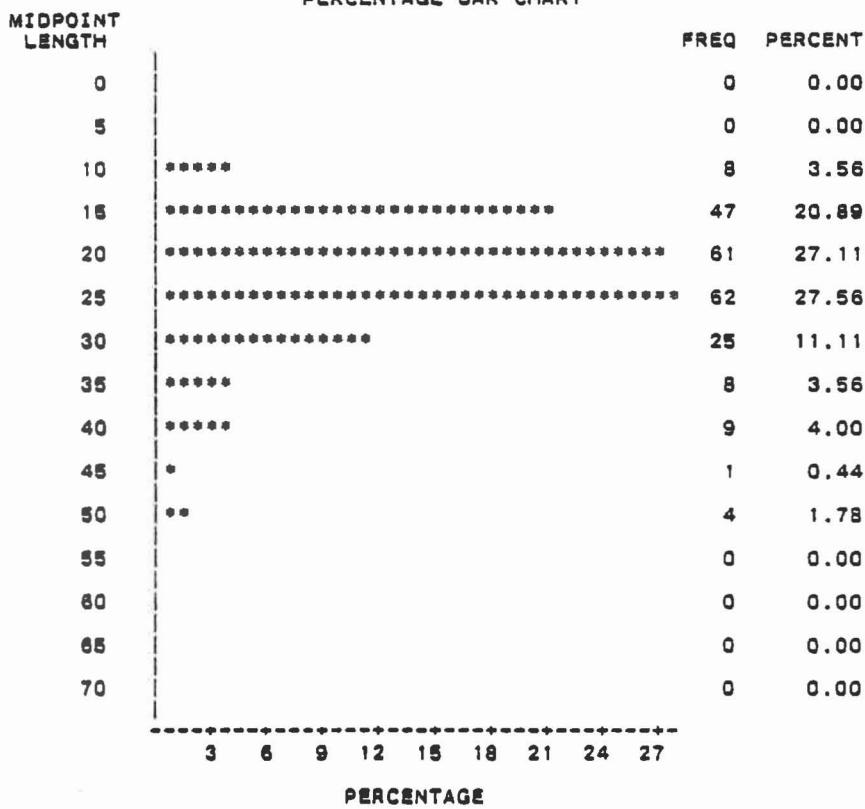
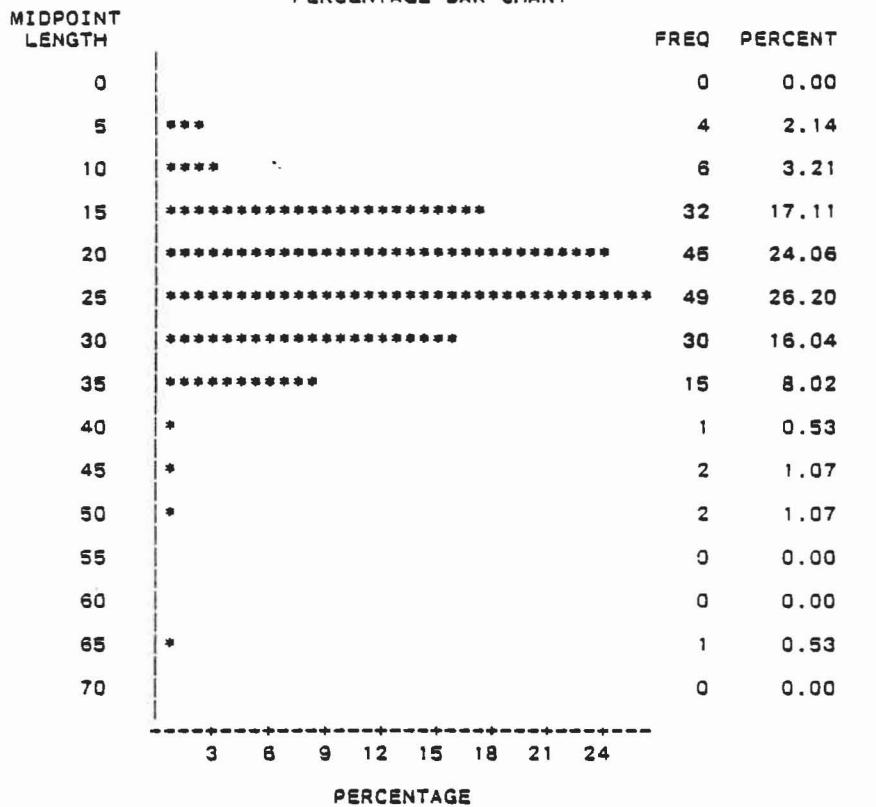


Fig. 1

MERTENSIA OVUM LENGTH FREQUENCY M8116.22

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8123.28

PERCENTAGE BAR CHART

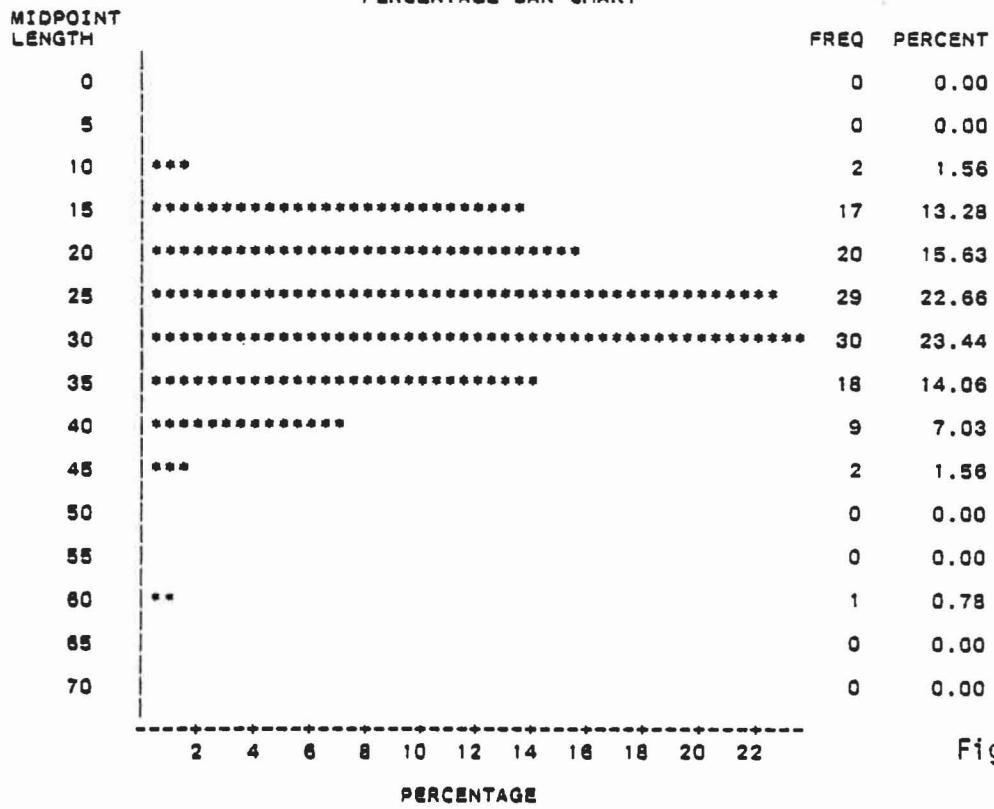
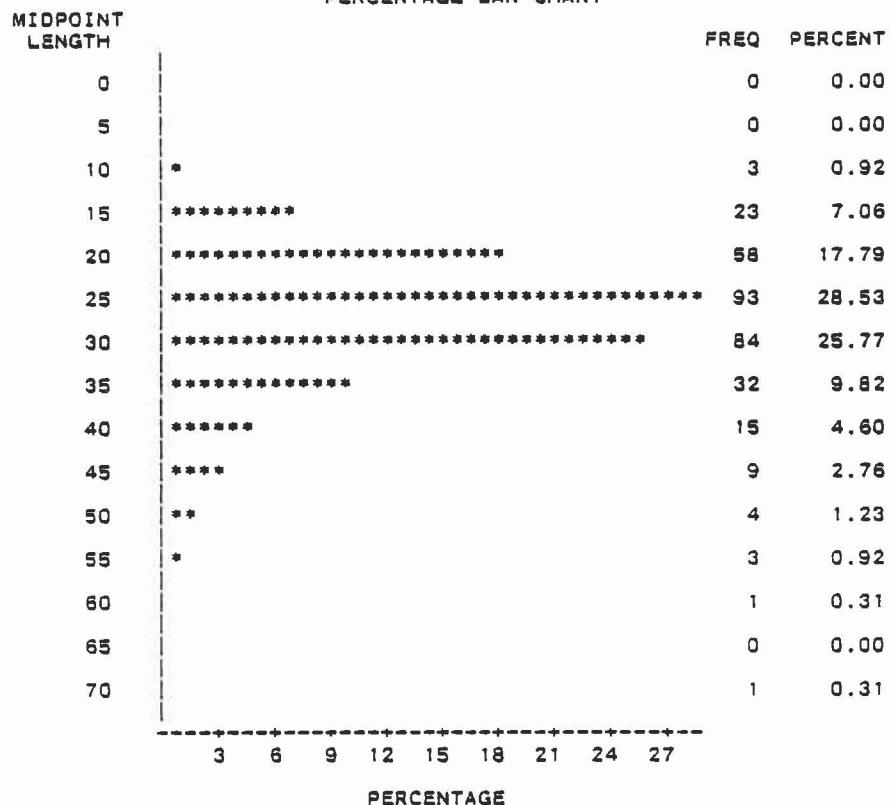


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8129.37

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8138.43

PERCENTAGE BAR CHART

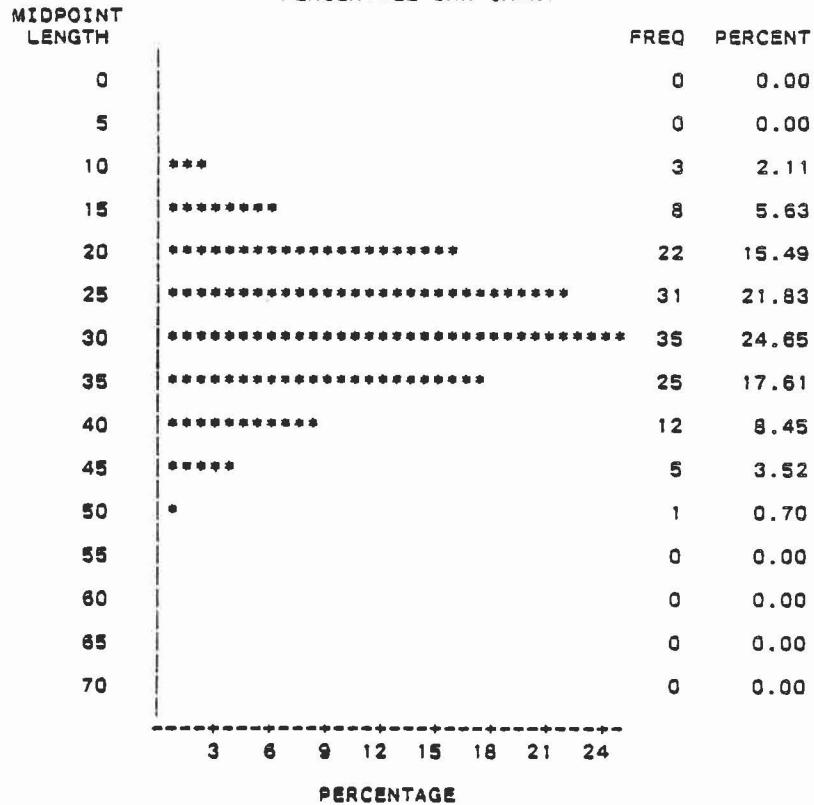
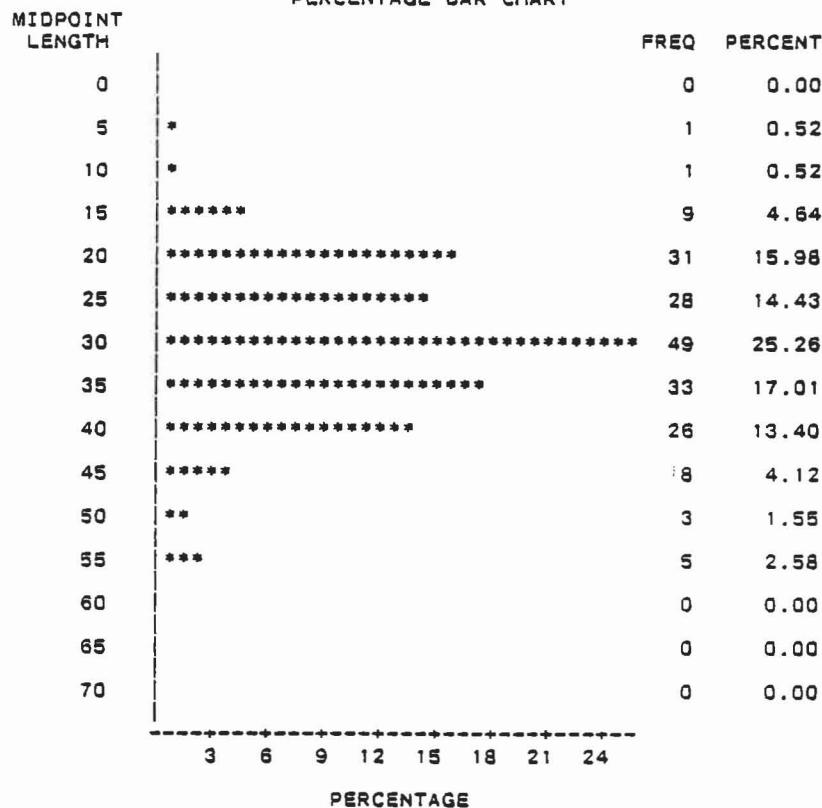


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8144.50

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8151.59

PERCENTAGE BAR CHART

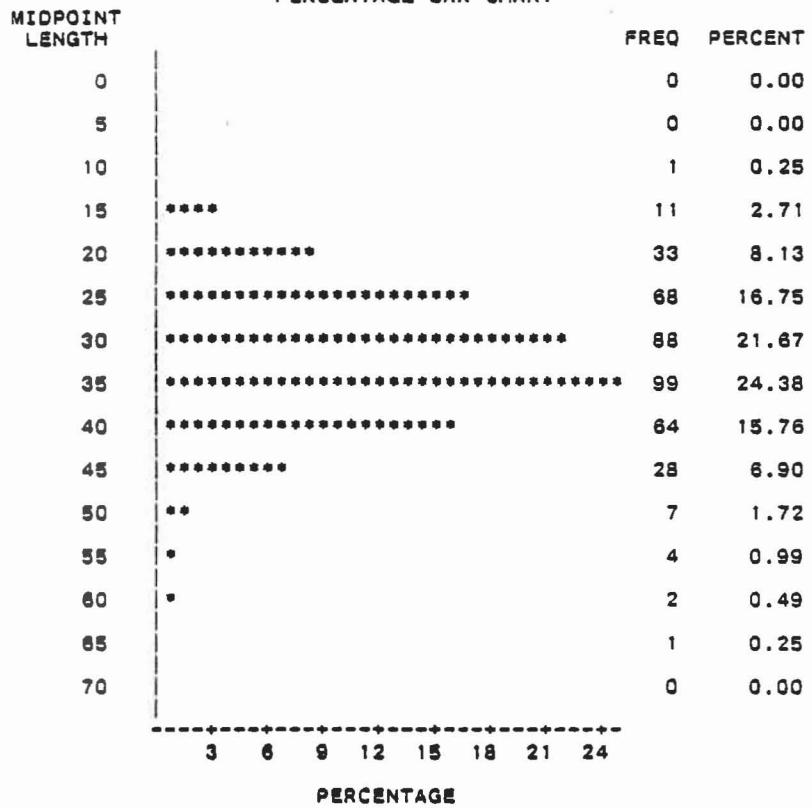
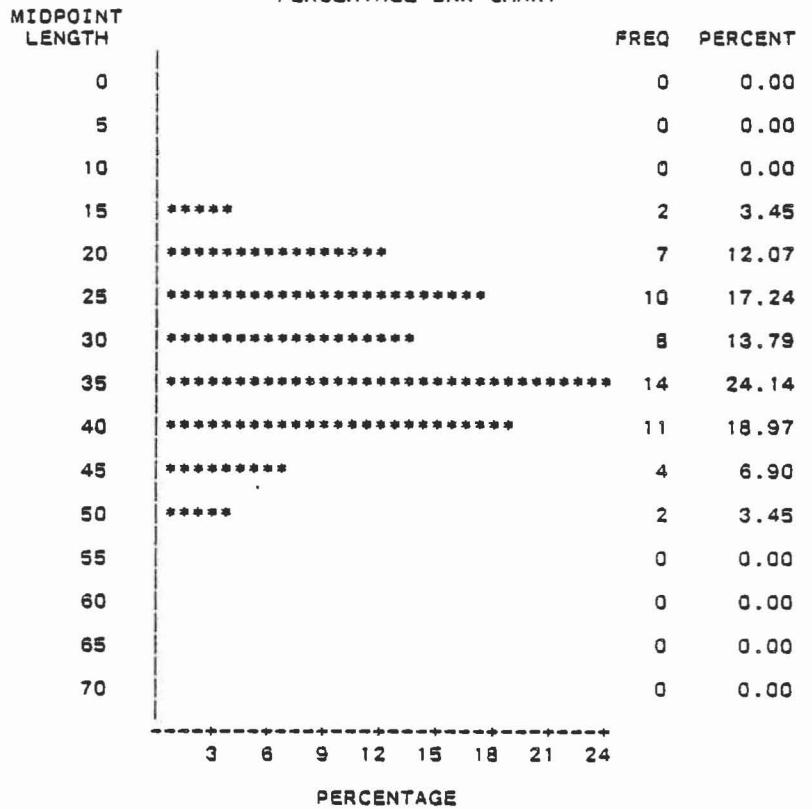


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8160.66

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8209.17

PERCENTAGE BAR CHART

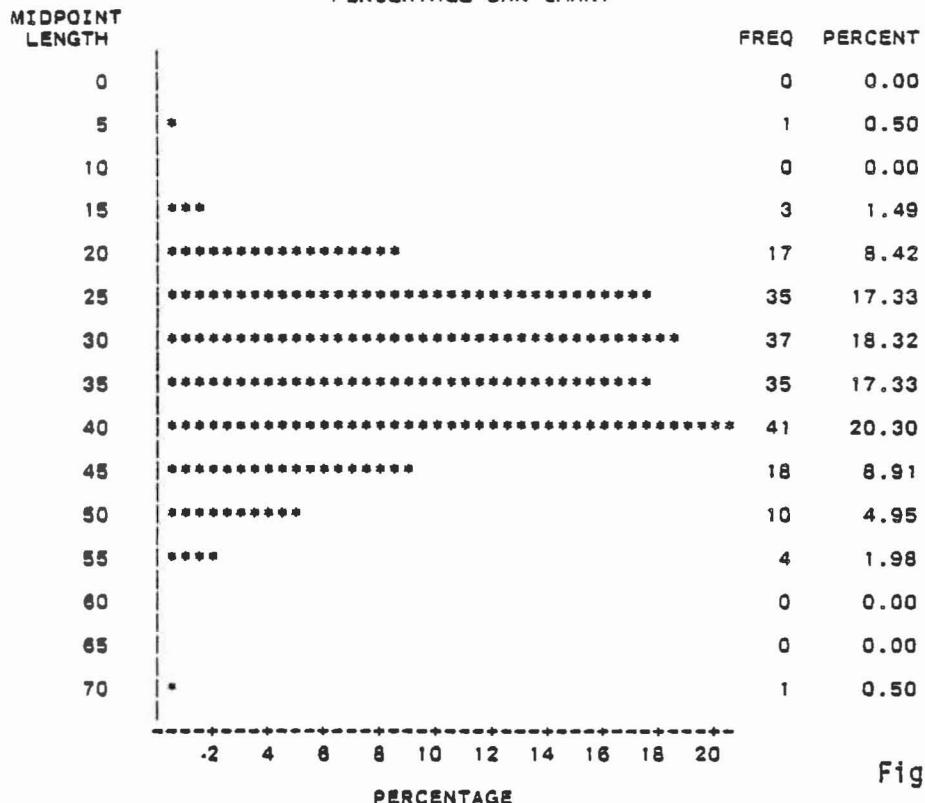
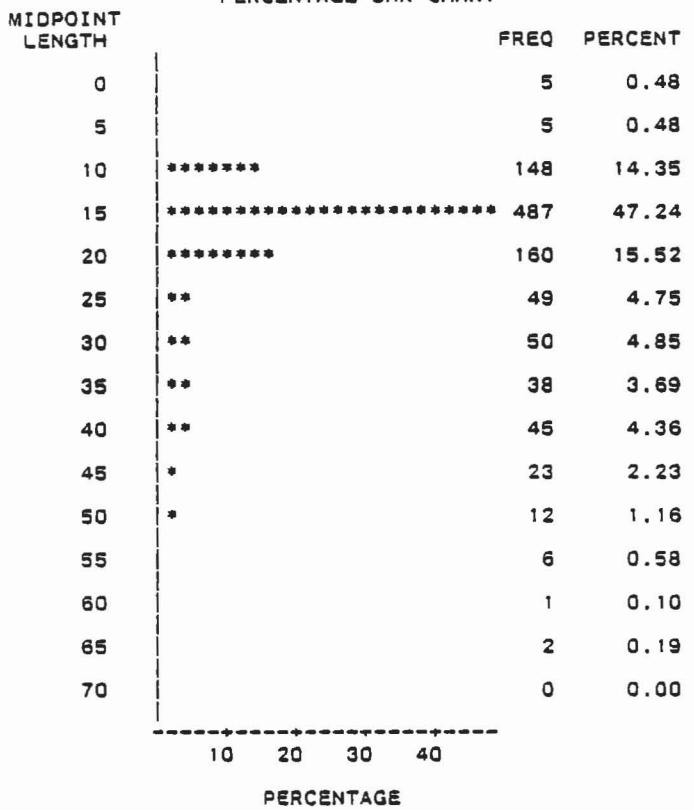


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8218.28

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8229.33

PERCENTAGE BAR CHART

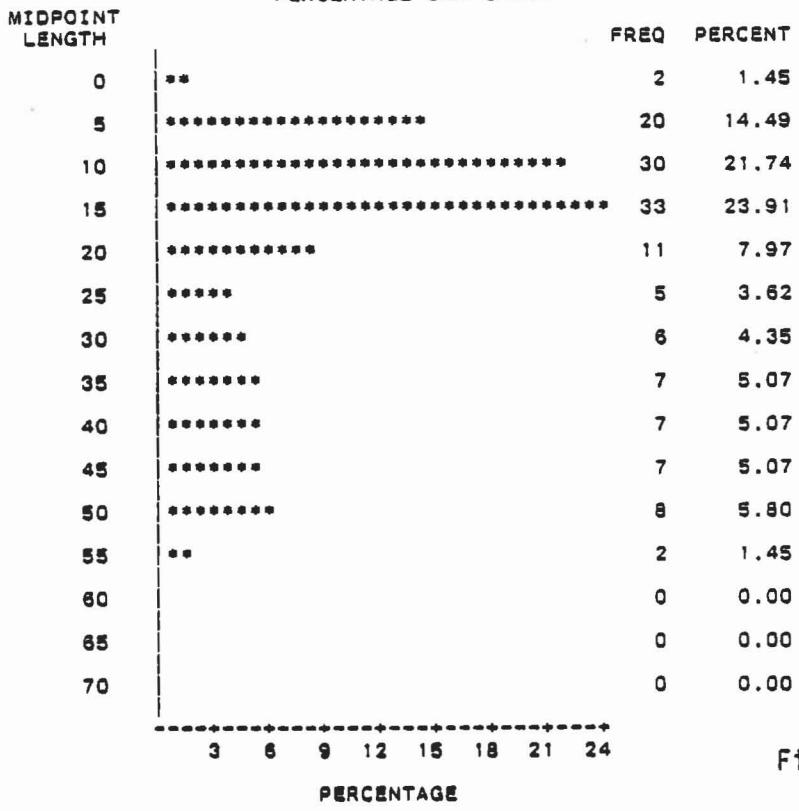
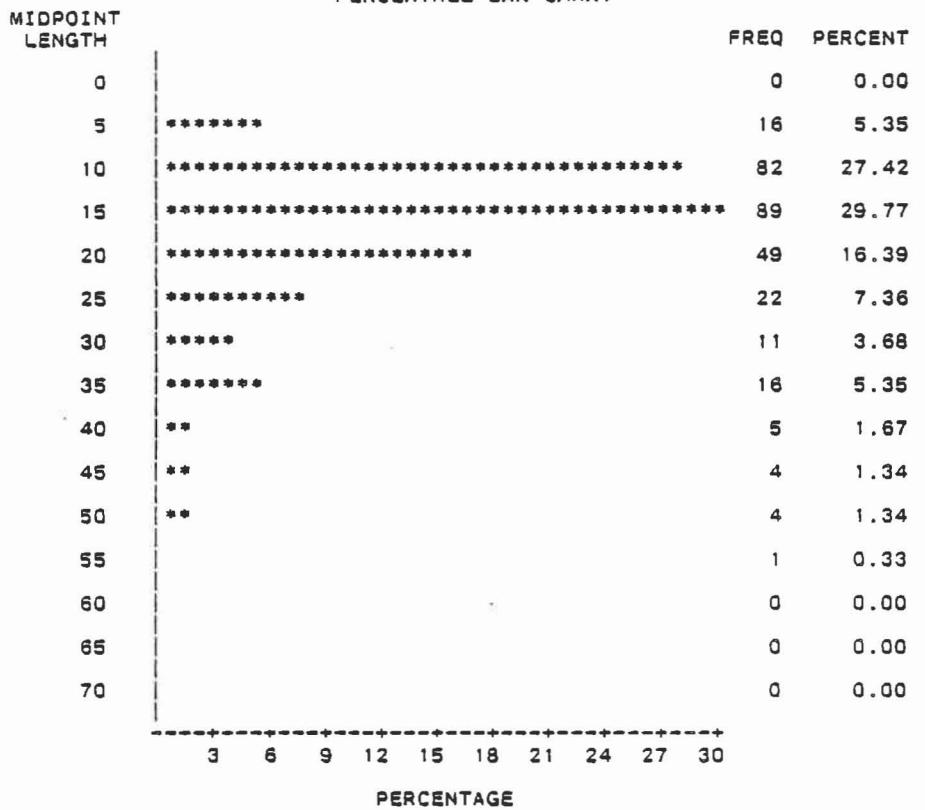


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8234.39

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8240.48

PERCENTAGE BAR CHART

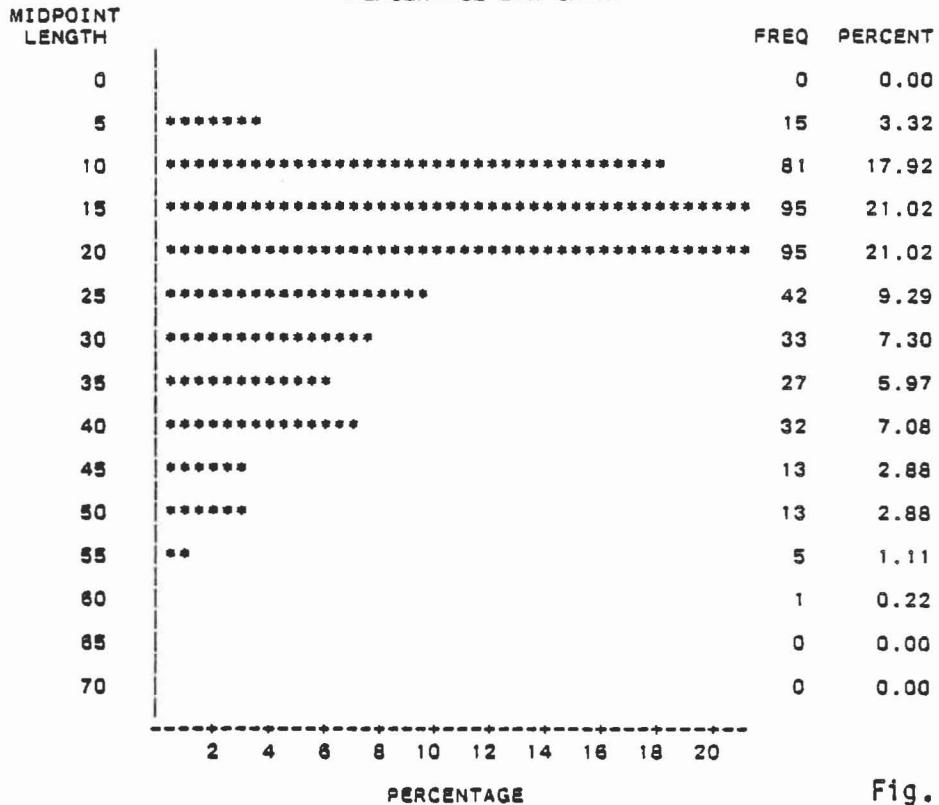
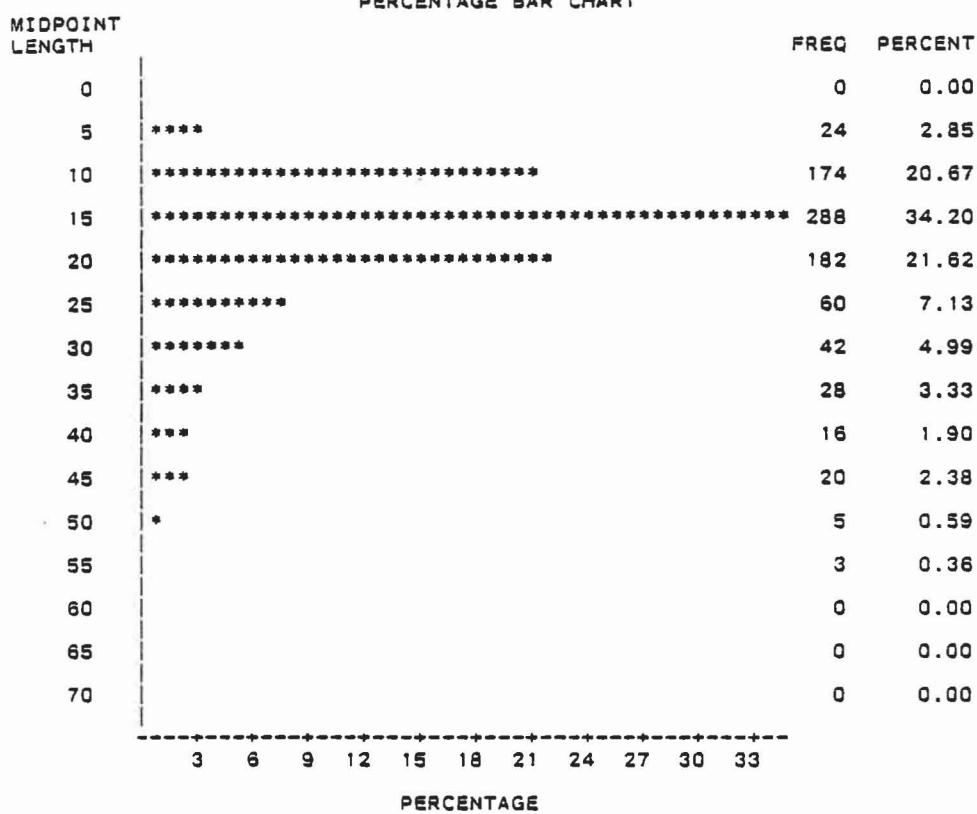


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8249.58

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8259.64

PERCENTAGE BAR CHART

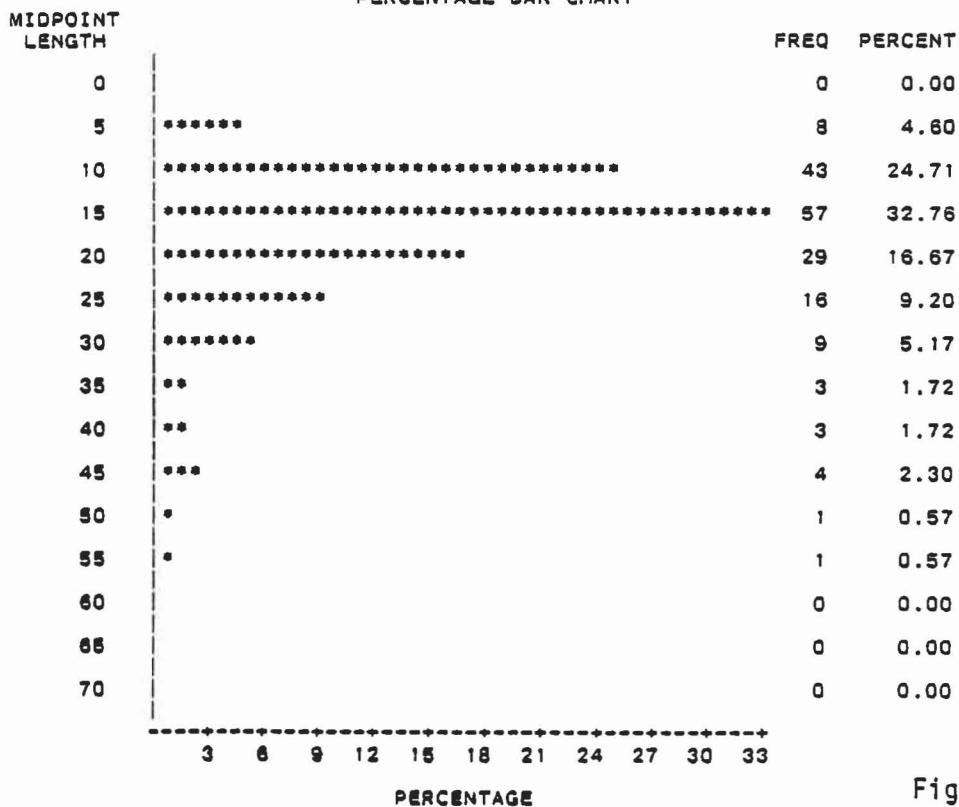
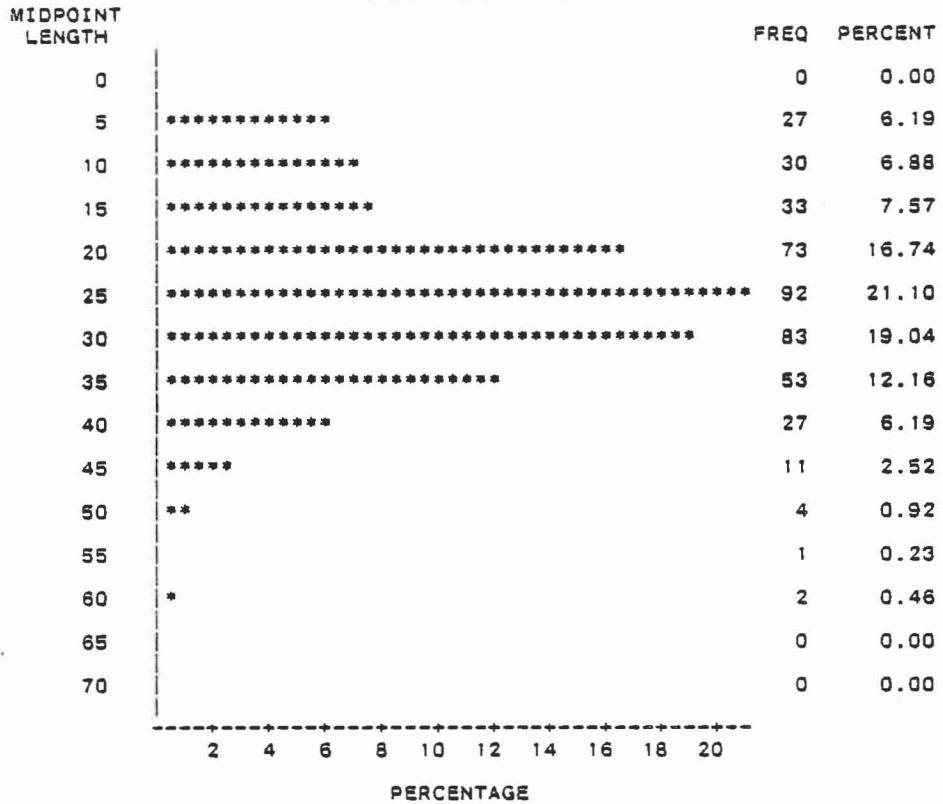


Fig. 1 (cont'd.)

MERTENSIA OVUM LENGTH FREQUENCY M8301.06

PERCENTAGE BAR CHART



MERTENSIA OVUM LENGTH FREQUENCY M8307.1†

PERCENTAGE BAR CHART

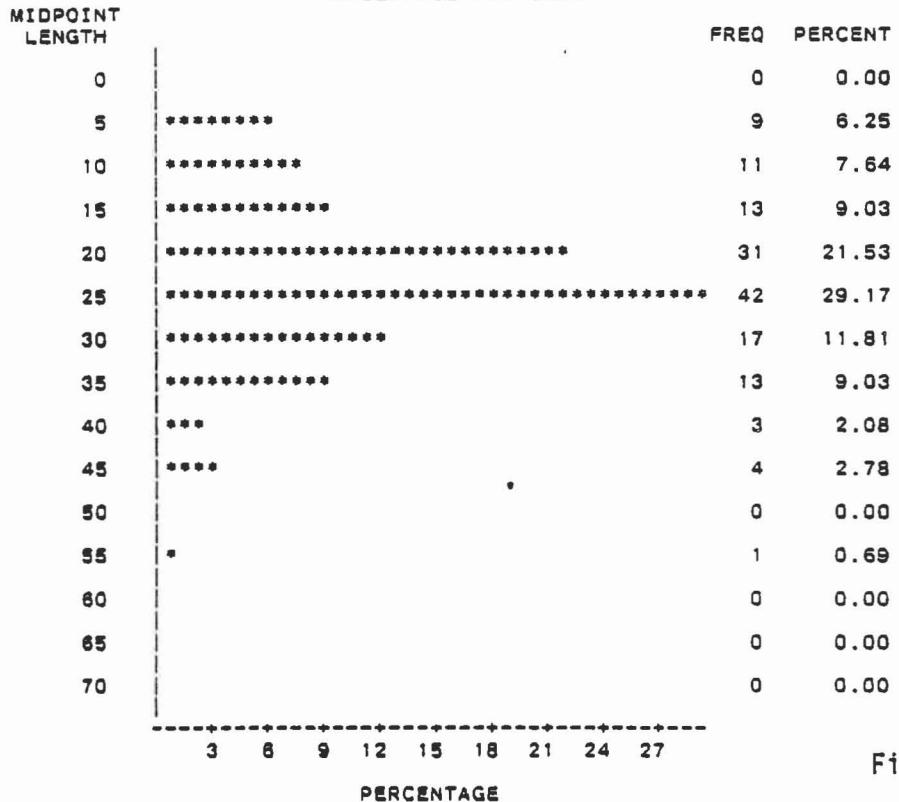
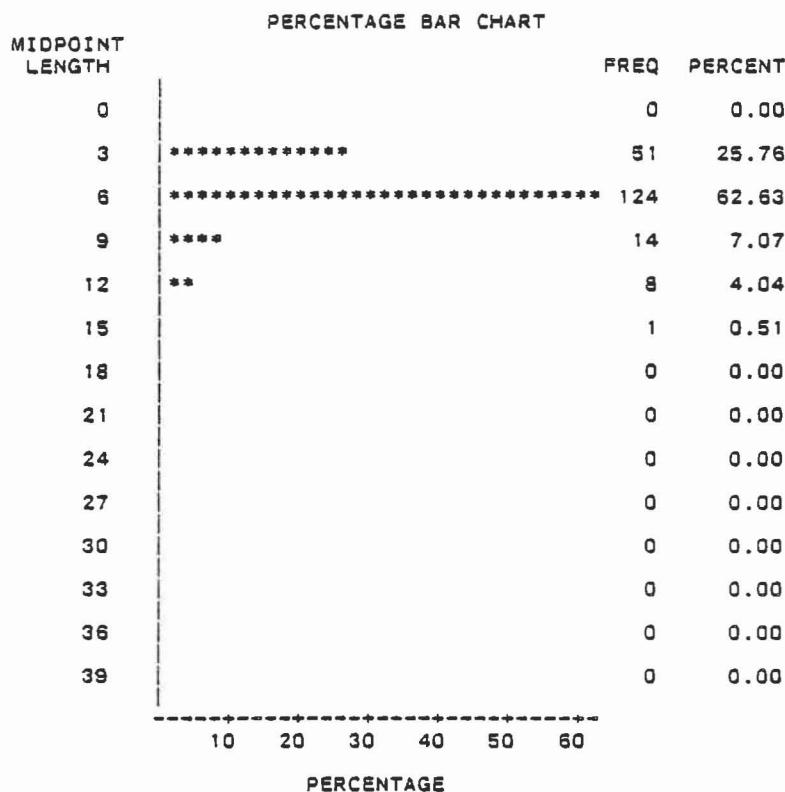


Fig. 1 (cont'd.)

Figure 2. Length frequency histograms for Parathemisto libellula collected during the 1978 to 1983 open water seasons at various stations in Frobisher Bay. The code number in each chart title indicates the species (P), the year of collection (78) and the number of collections from which data were combined in preparing the histogram (e.g. P7802.06 indicates that length measurements for Parathemisto from the 1978 collections numbered 02 to 06 inclusive were pooled). The date of collection and the station number can be obtained by referring to the collection numbers listed in Table 1. The histograms are presented in chronological order.

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7801.06



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7807.12

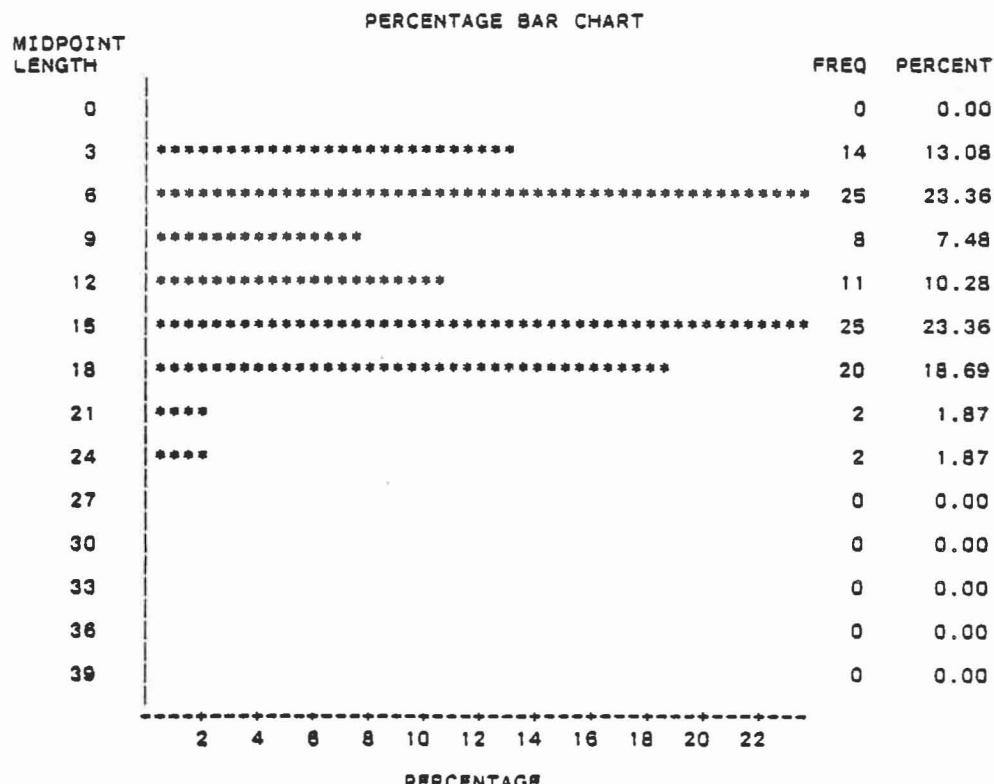
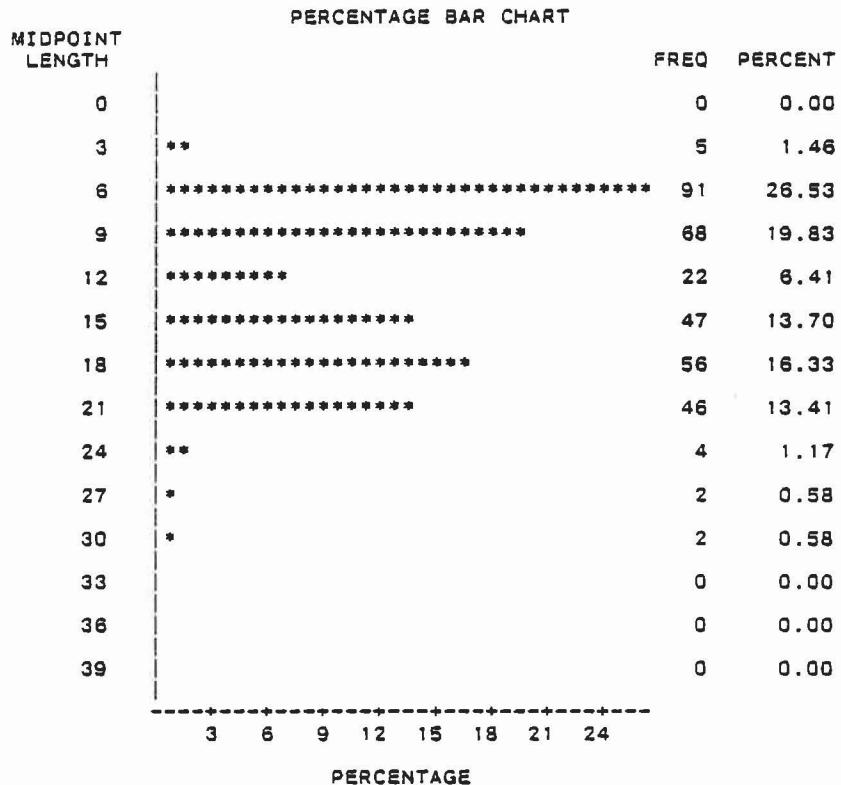


Fig. 2

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7813.18



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7819.24

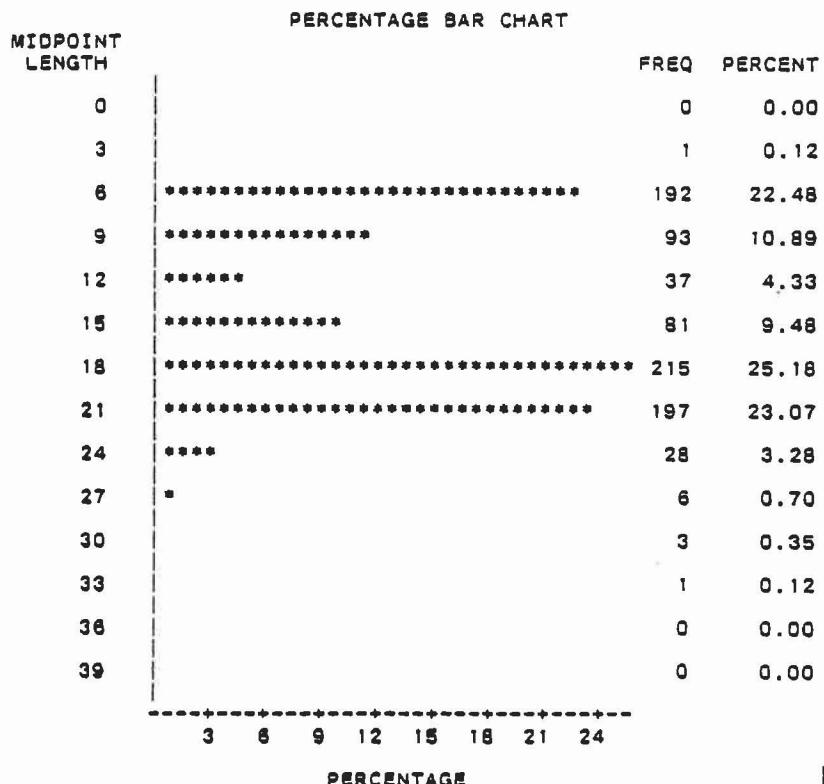
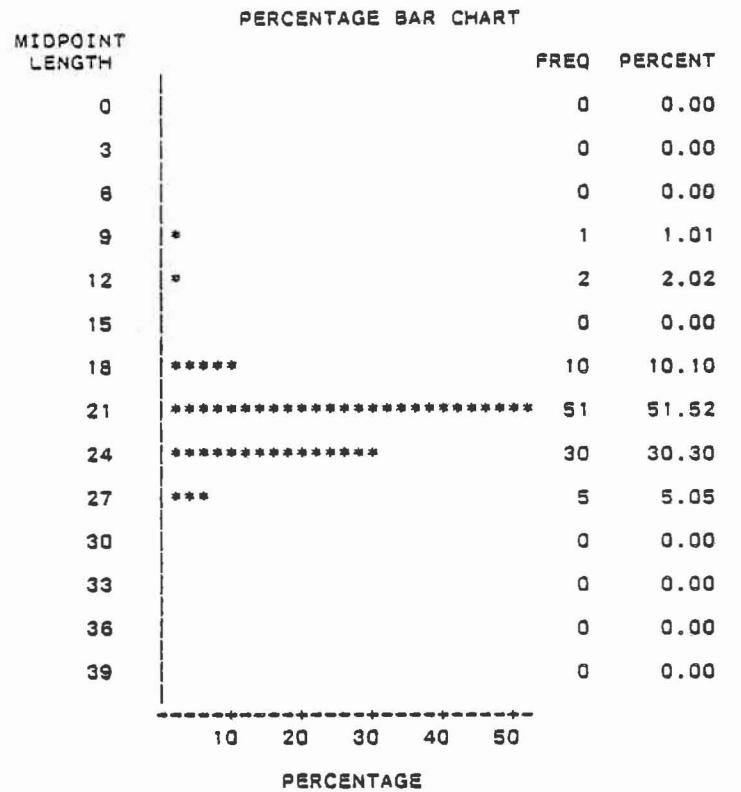


Fig. 2 (cont'd.).

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7825.30



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7831.38

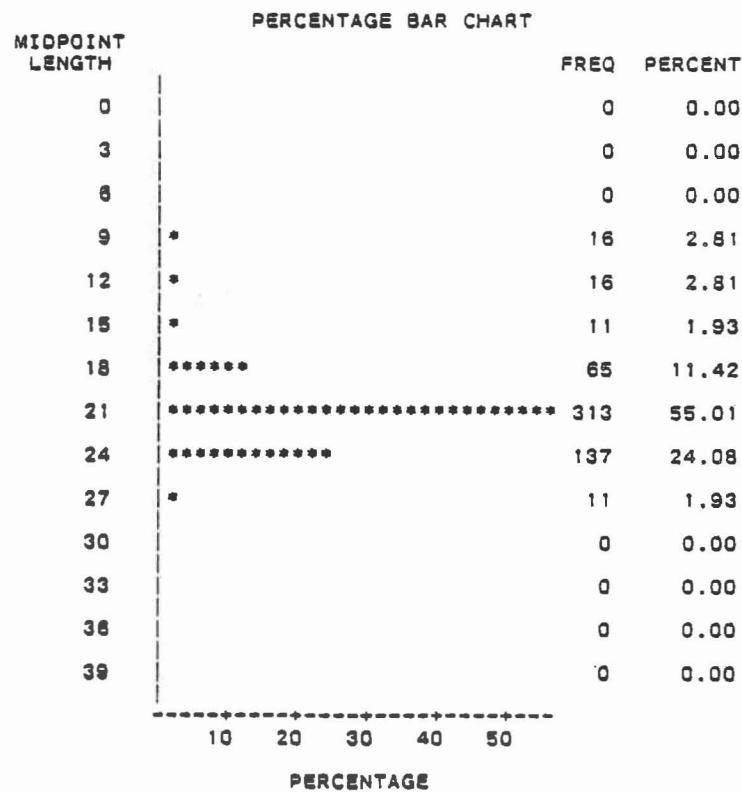
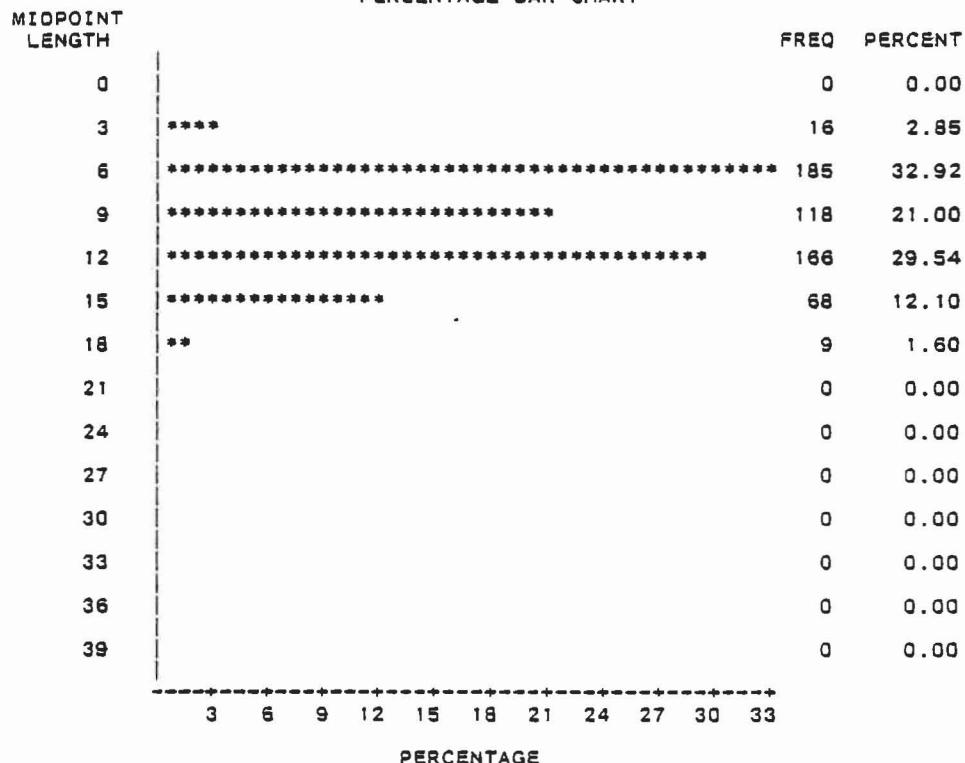


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7901.07

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7908.16

PERCENTAGE BAR CHART

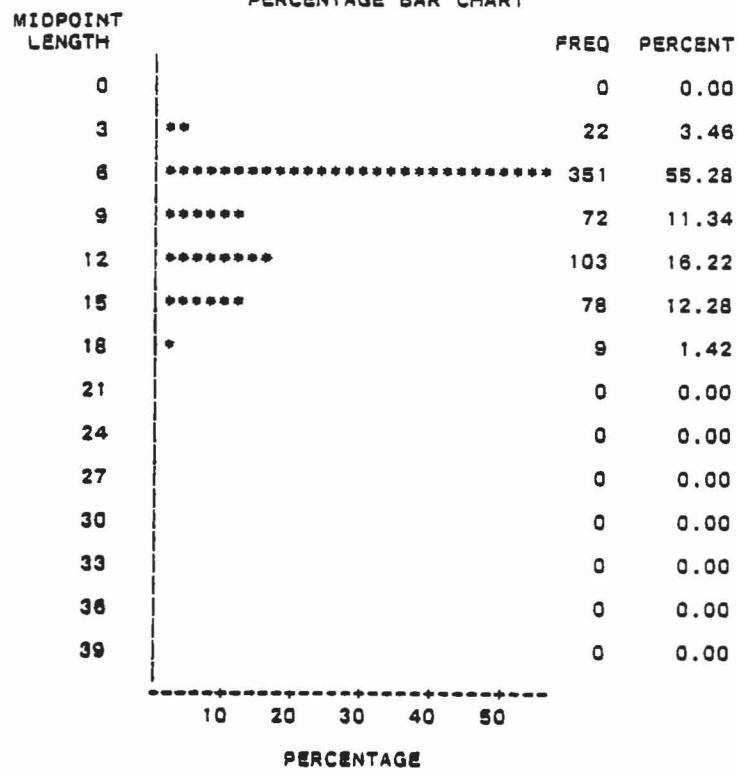
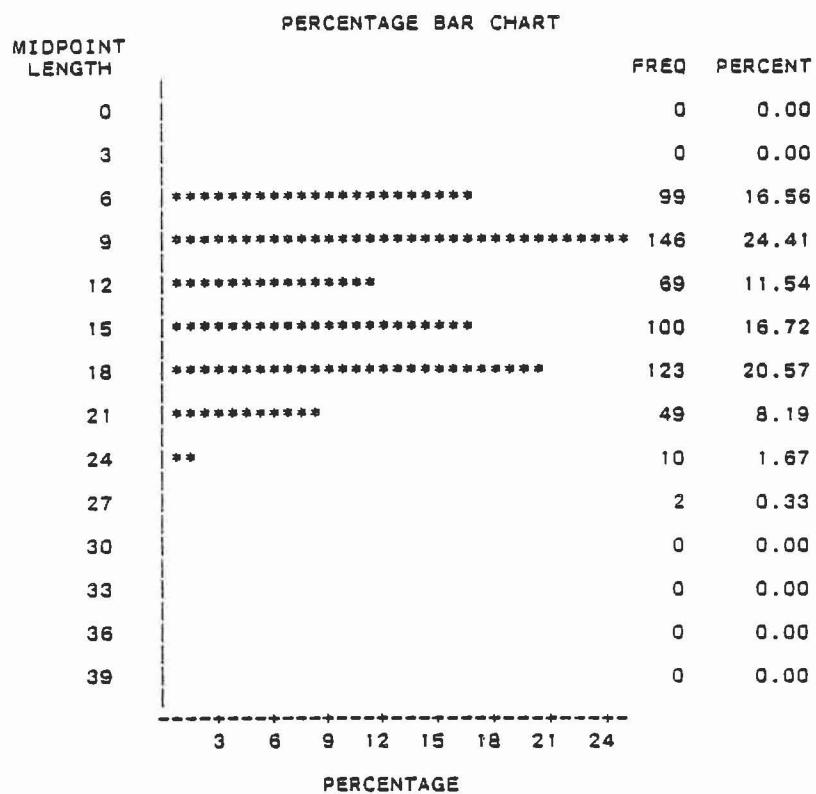


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7917.25



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7926.32

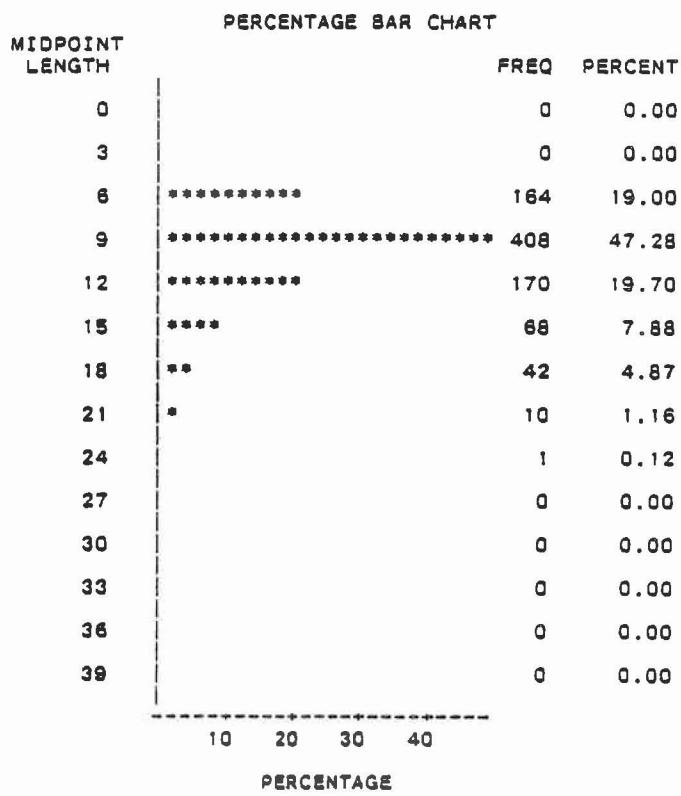
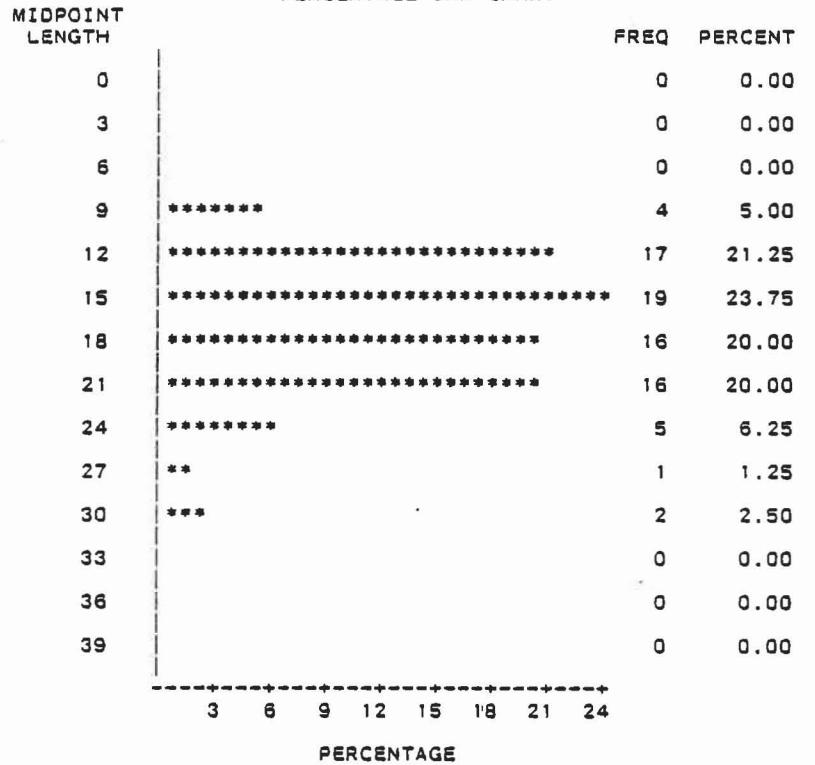


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7933.37

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7938.44

PERCENTAGE BAR CHART

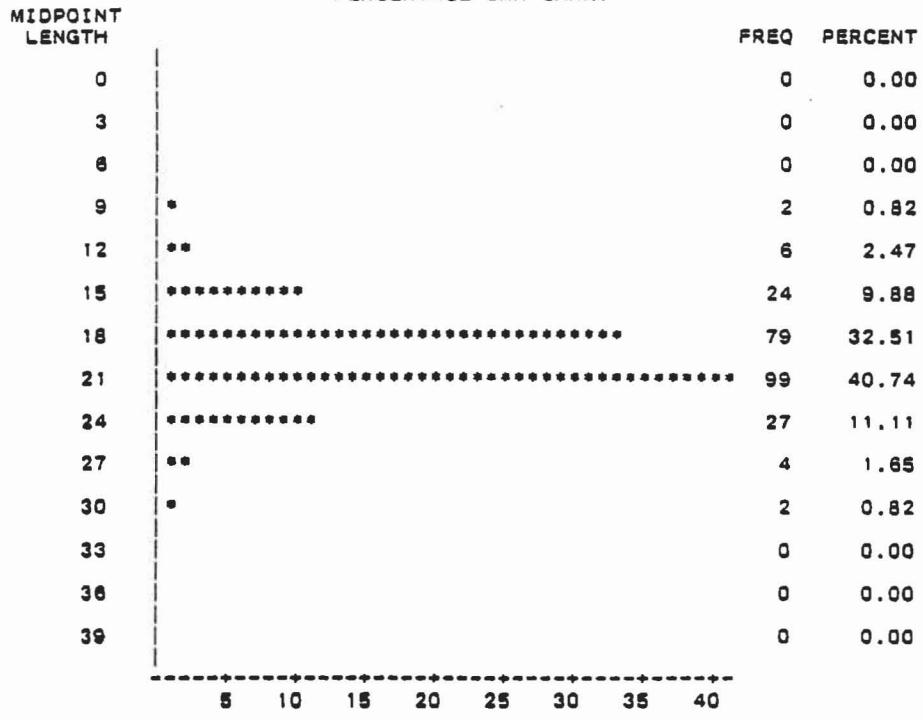
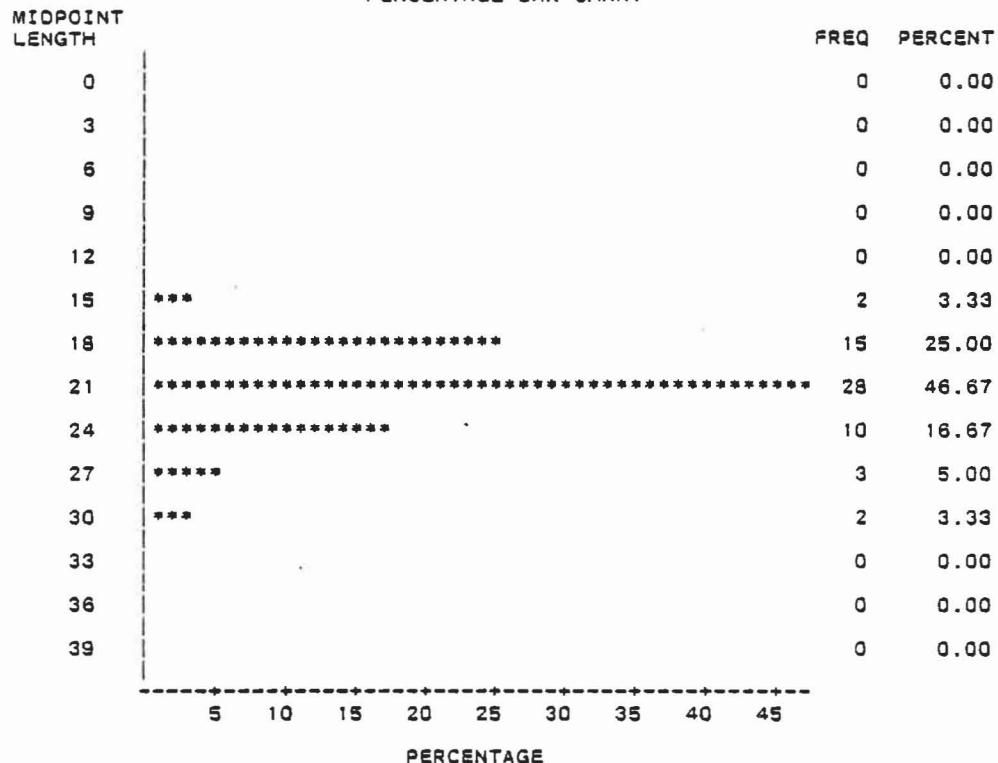


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7945.50

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P7951.58

PERCENTAGE BAR CHART

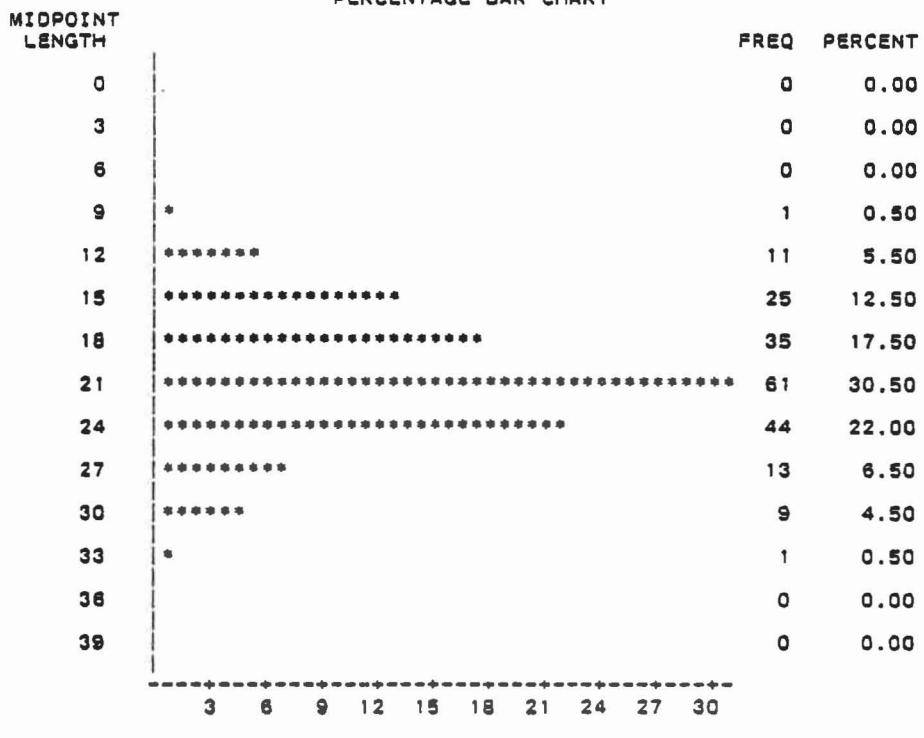
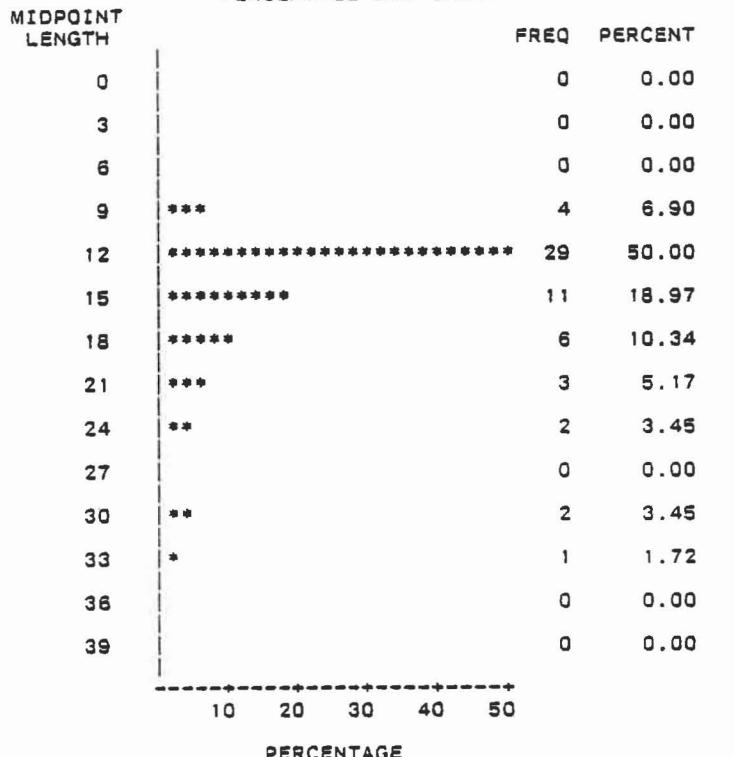


Fig. 2 (cont'd.).

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8001.06

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8007.12

PERCENTAGE BAR CHART

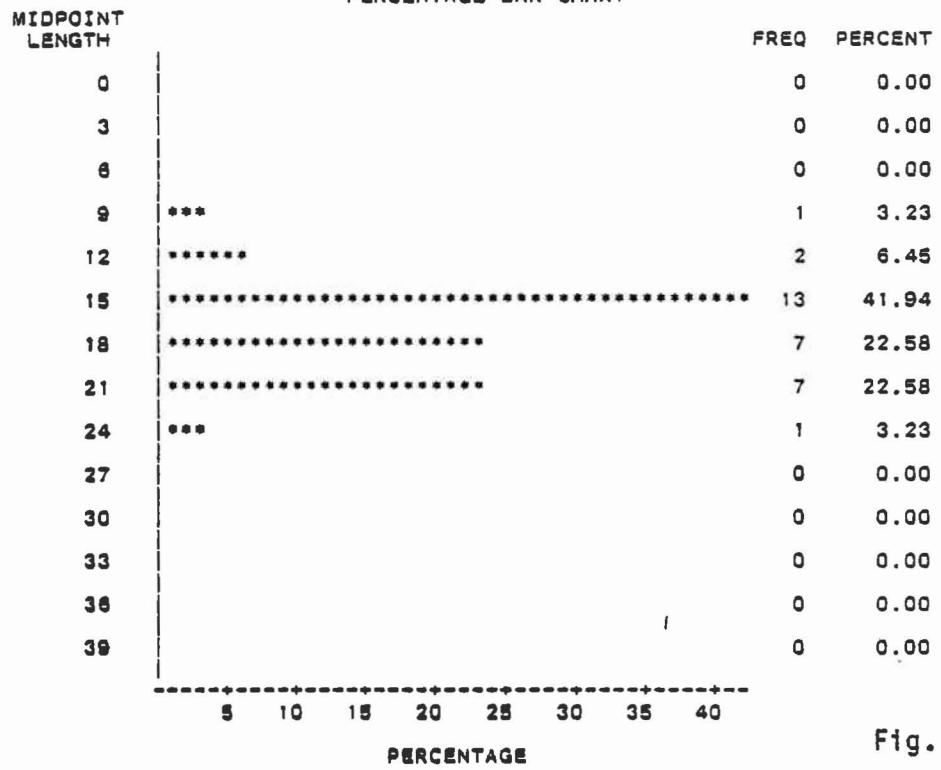
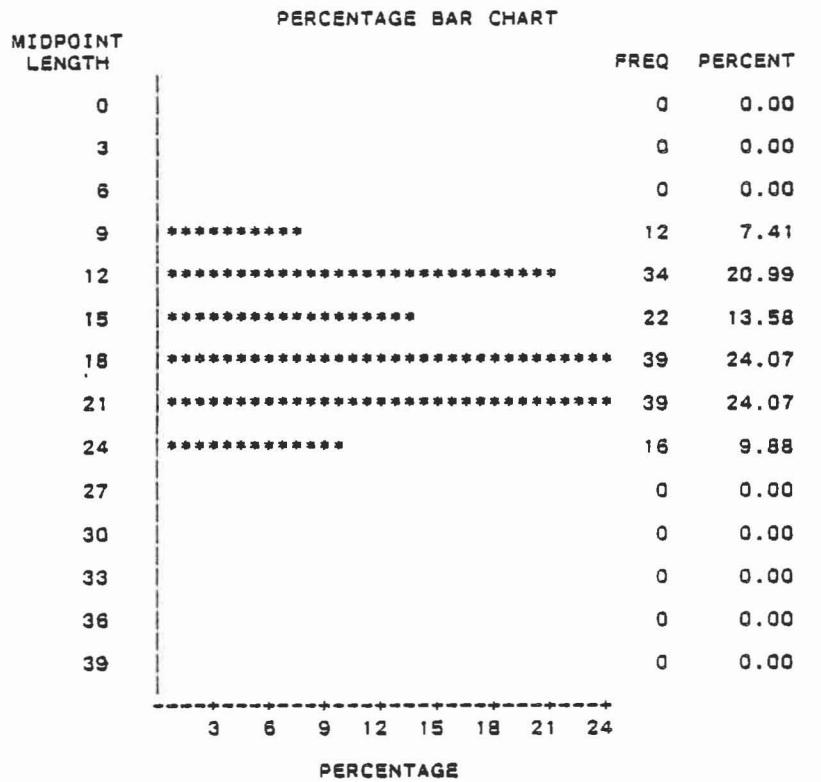


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY PB013.20



PARATHEMISTO LIBELLULA LENGTH FREQUENCY PB021.27

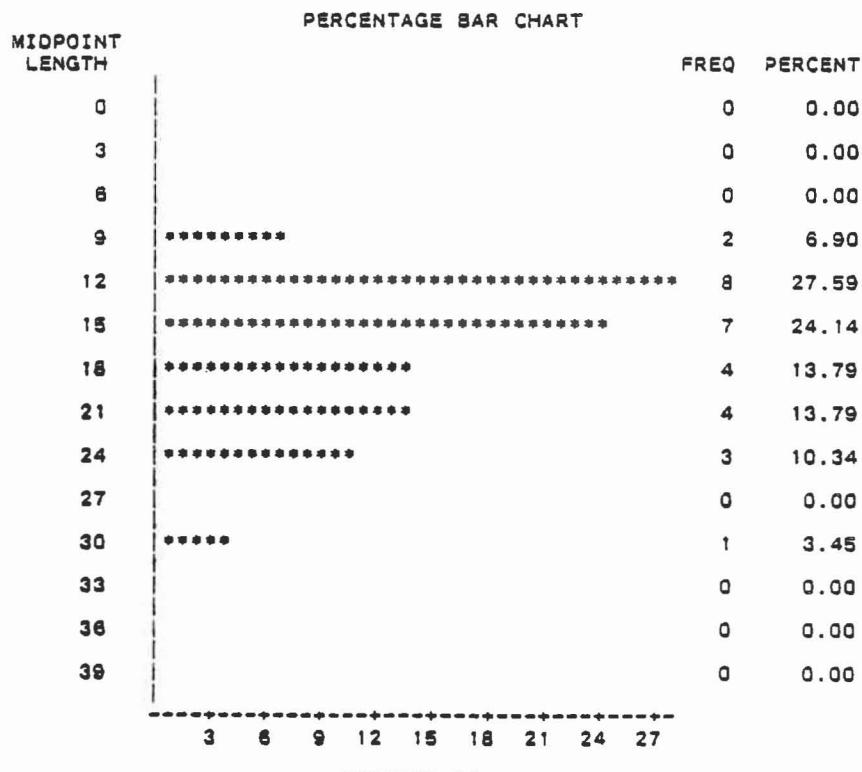


Fig. 2 (cont'd.).

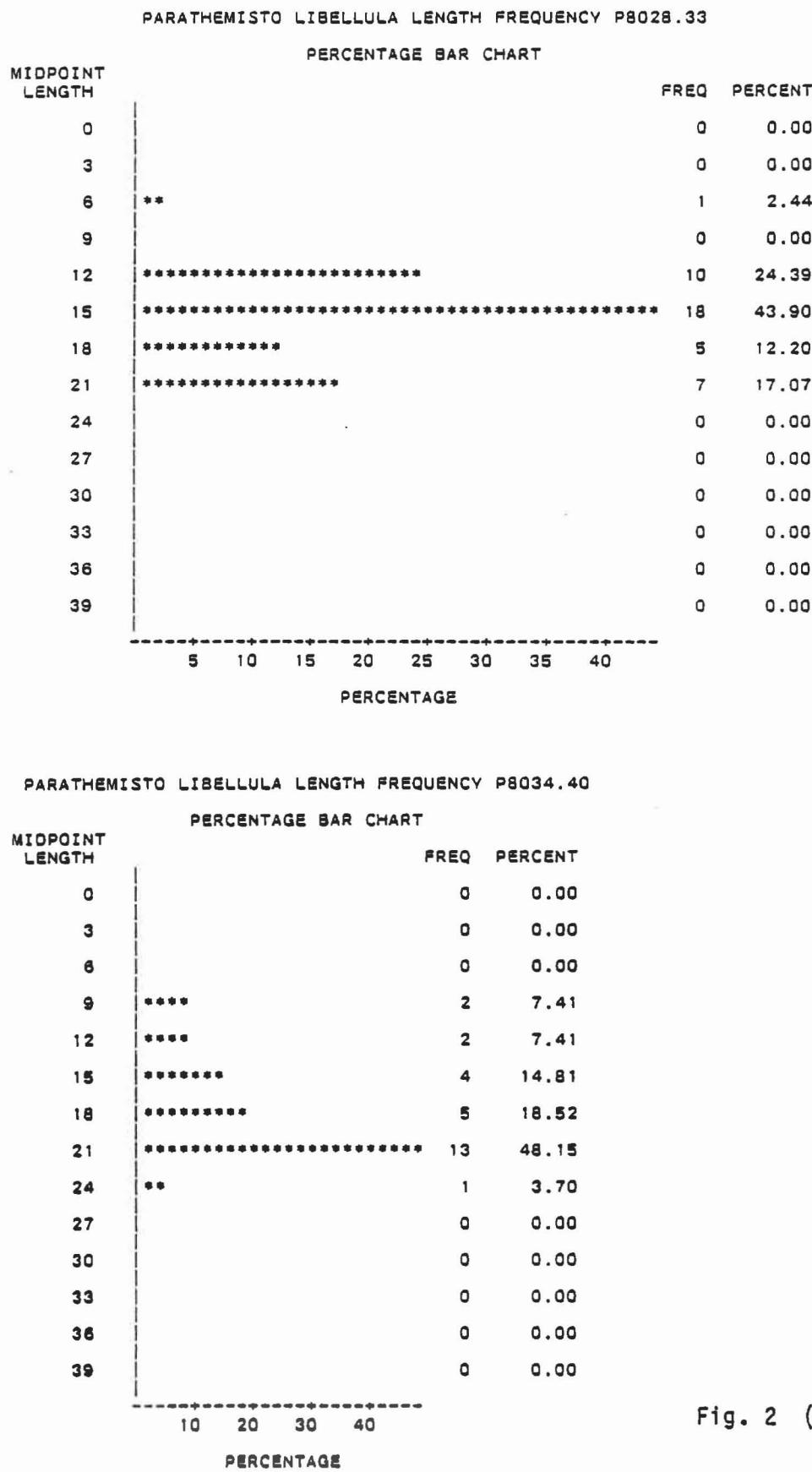
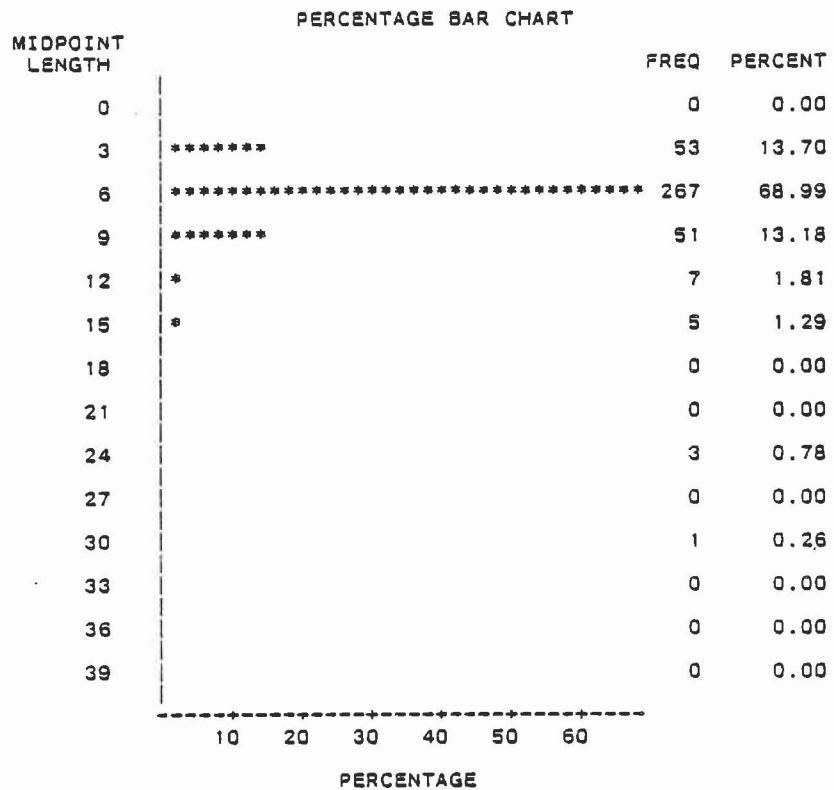


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY PB101.06



PARATHEMISTO LIBELLULA LENGTH FREQUENCY PB107.15

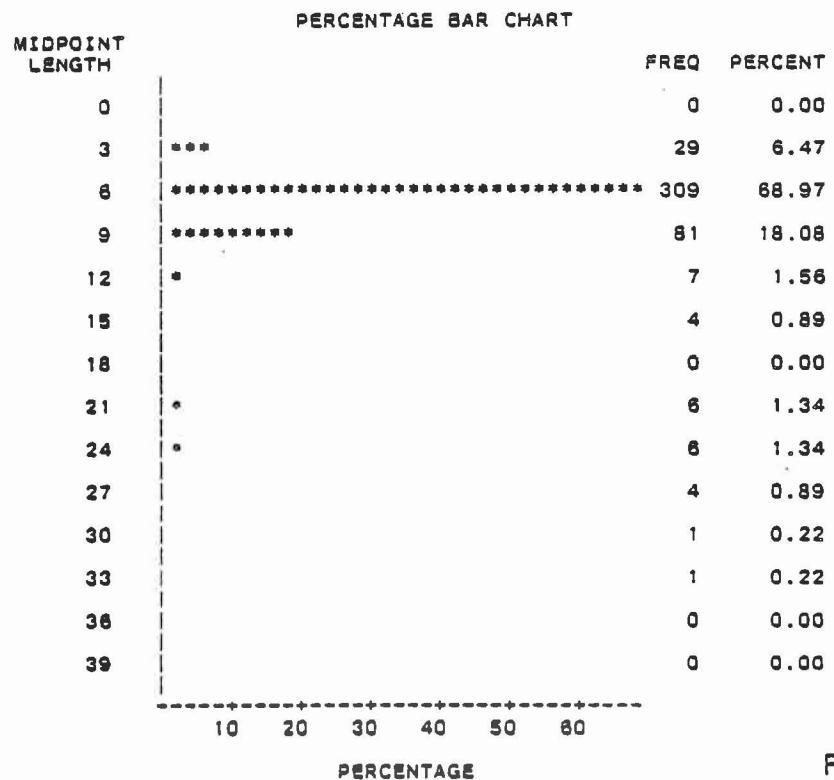


Fig. 2 (cont'd.)

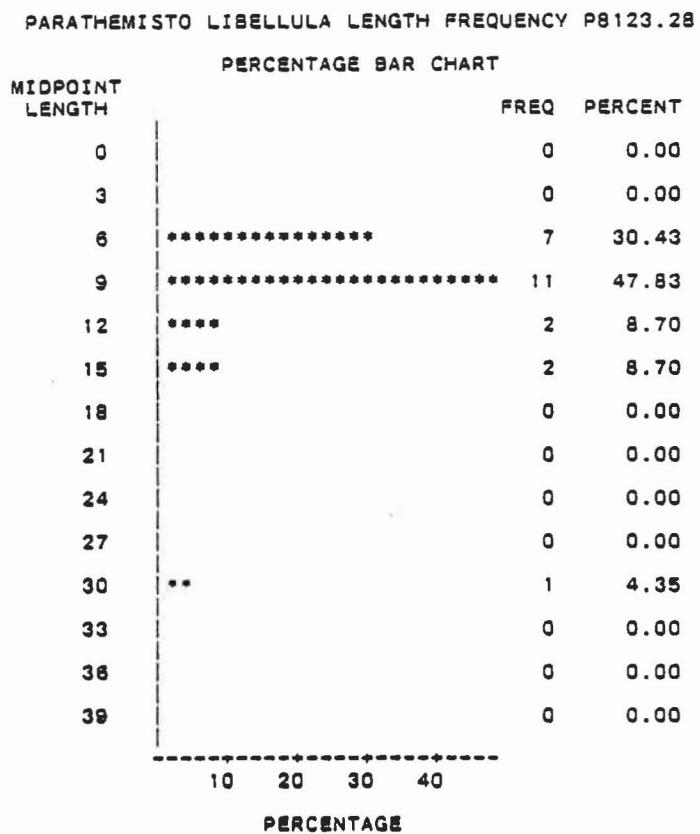
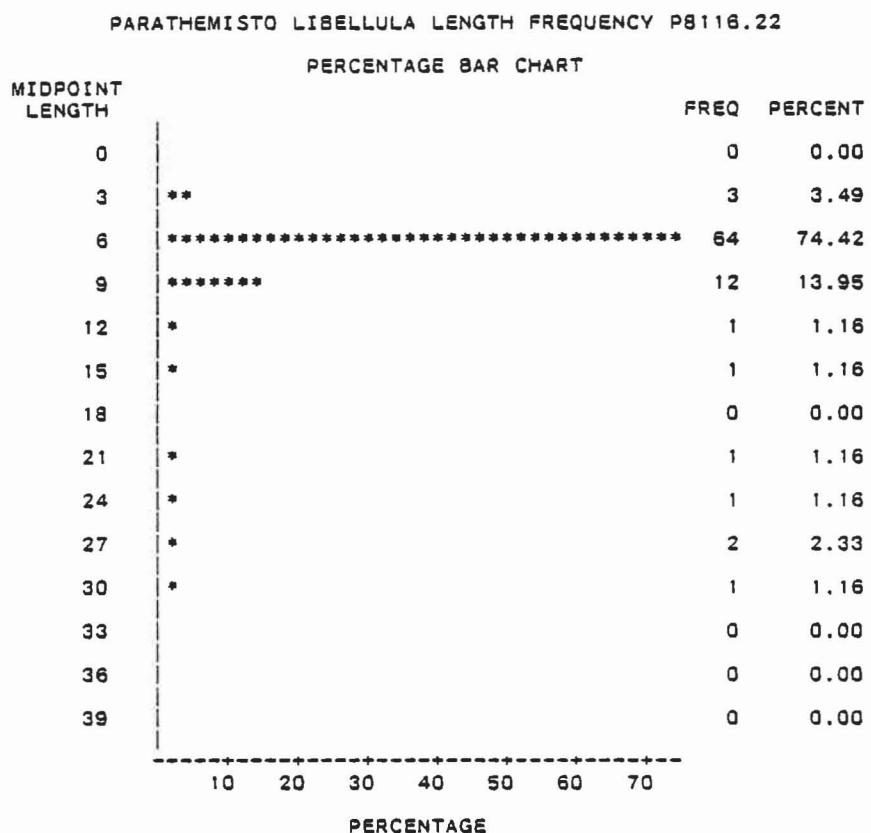
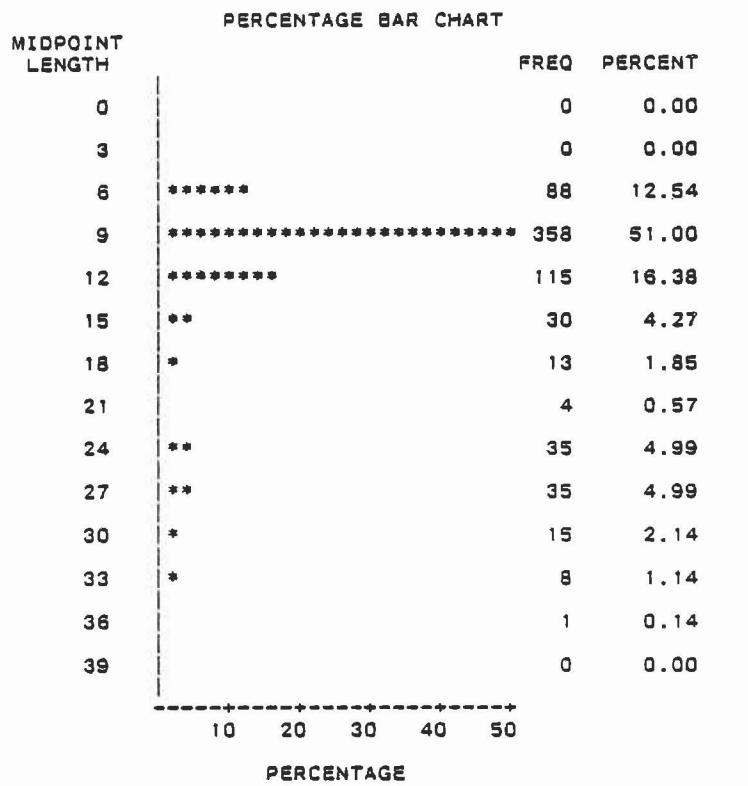


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8129.37



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8138.43

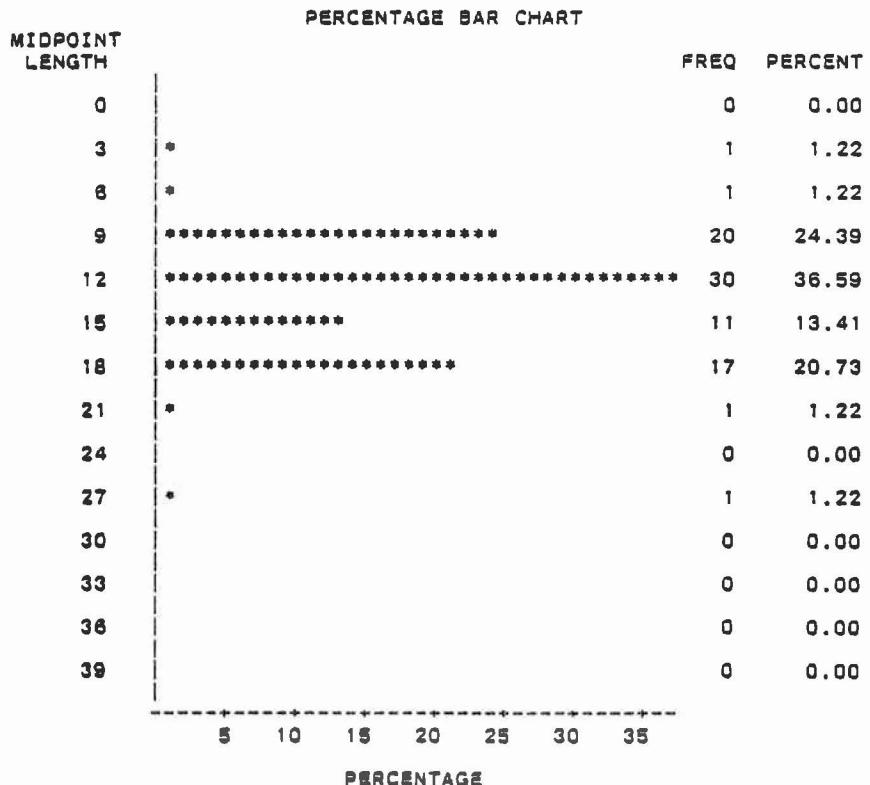
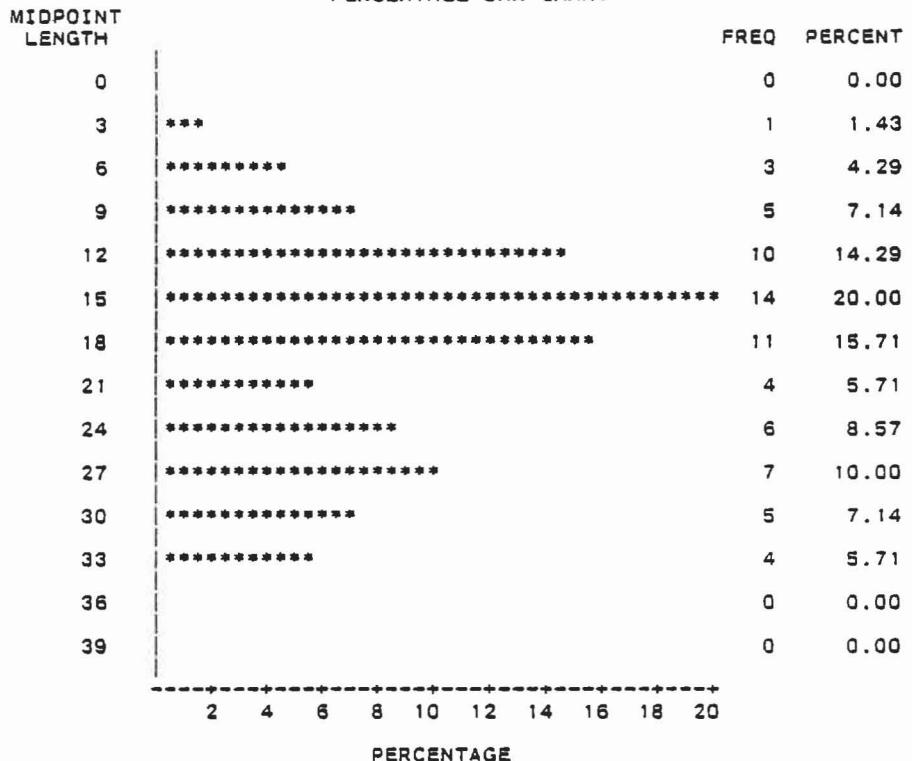


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8144.50

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8151.59

PERCENTAGE BAR CHART

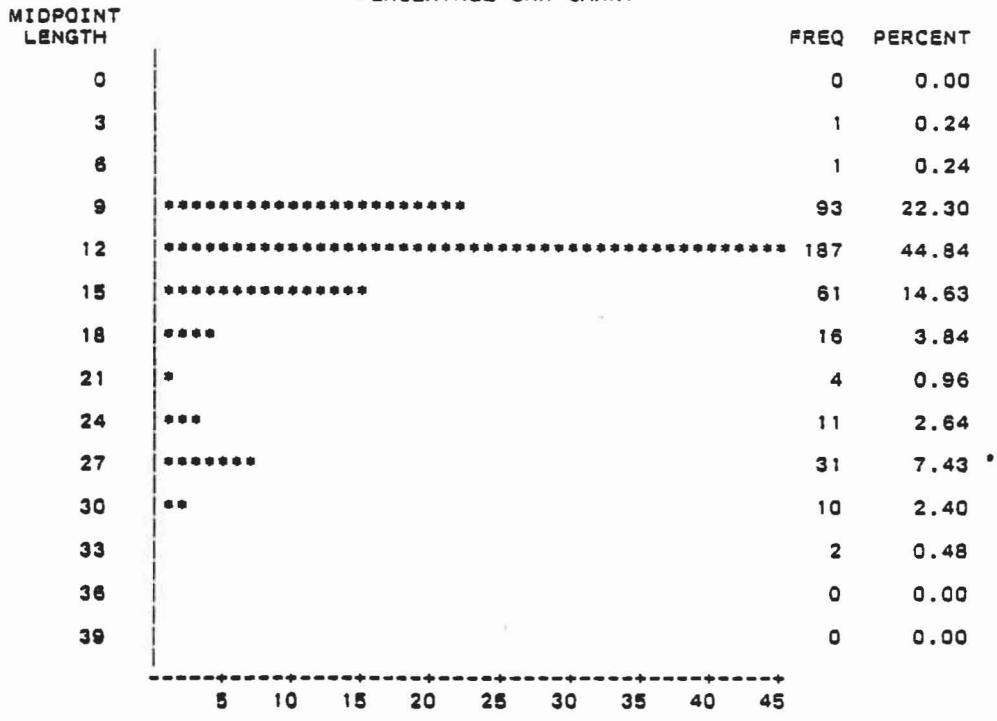
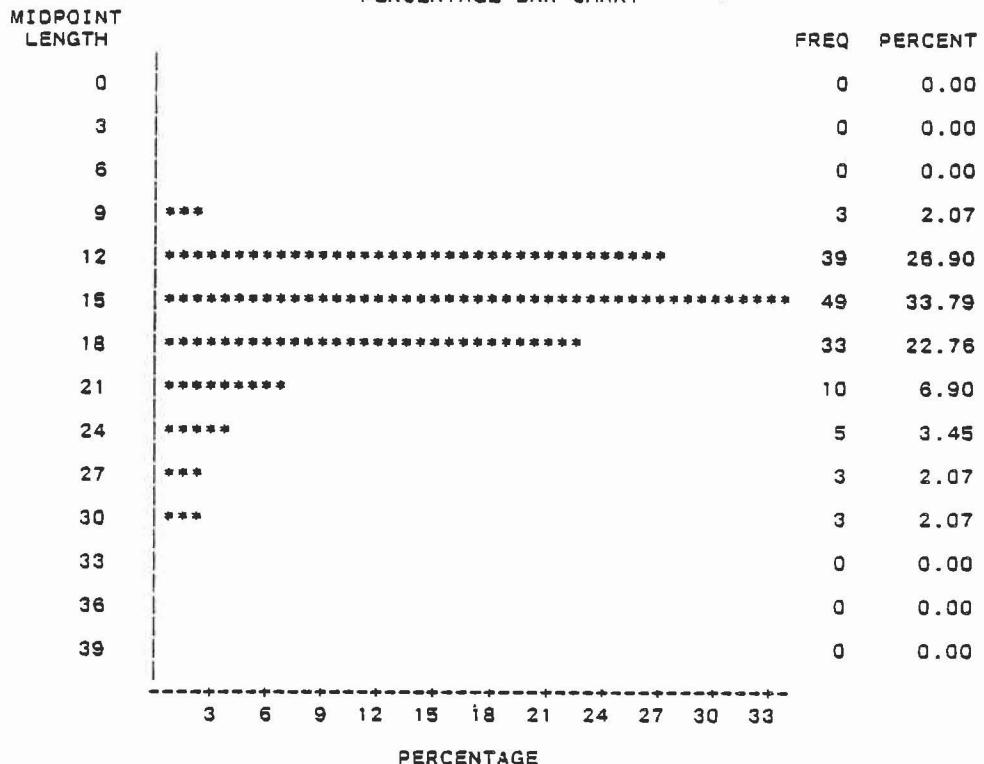


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY PS160.66

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY PS201.08

PERCENTAGE BAR CHART

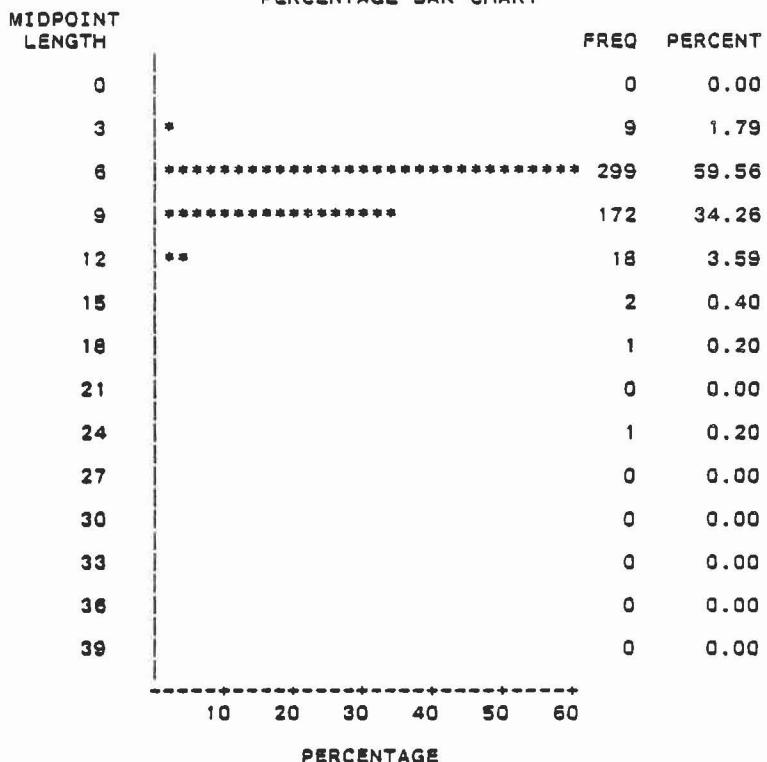
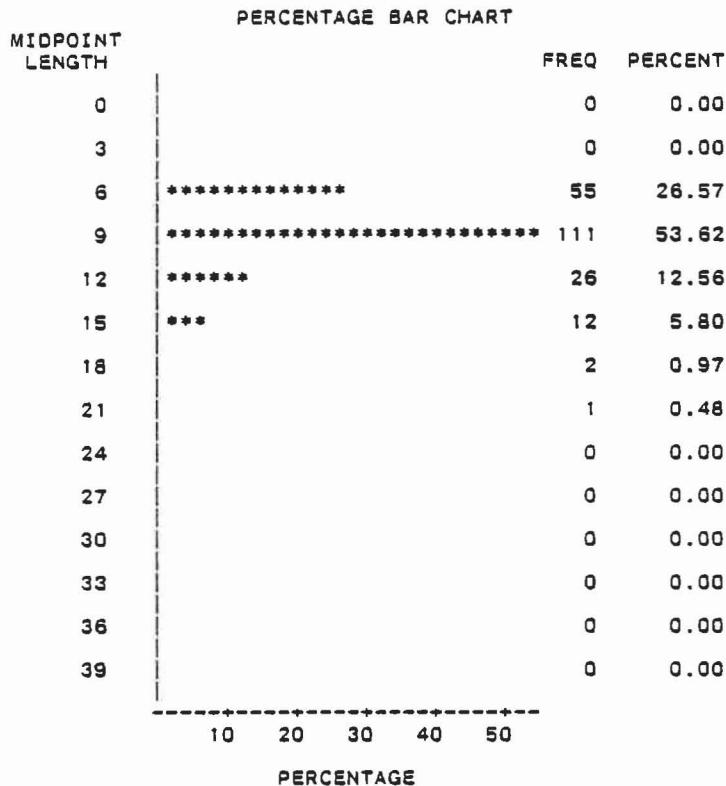


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8209.17



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8218.25

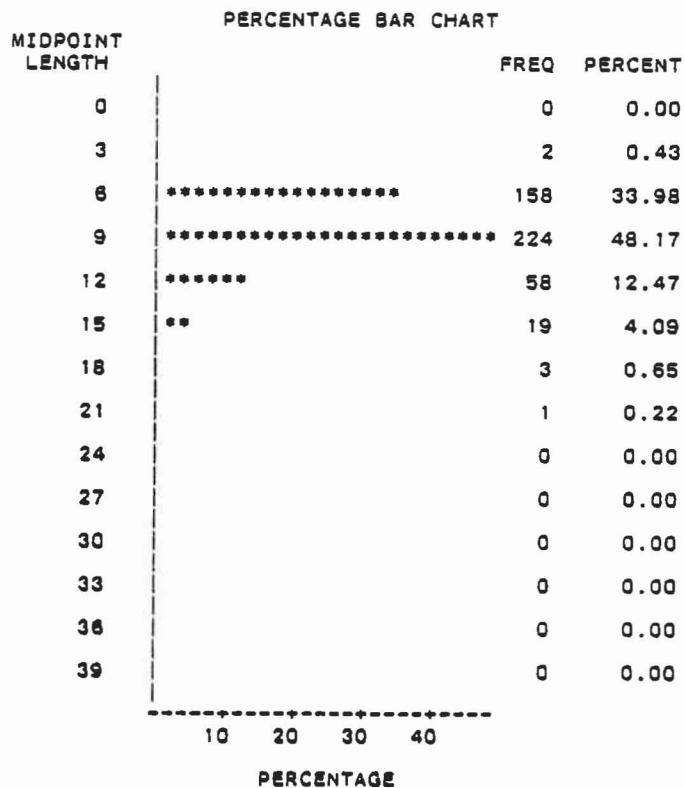
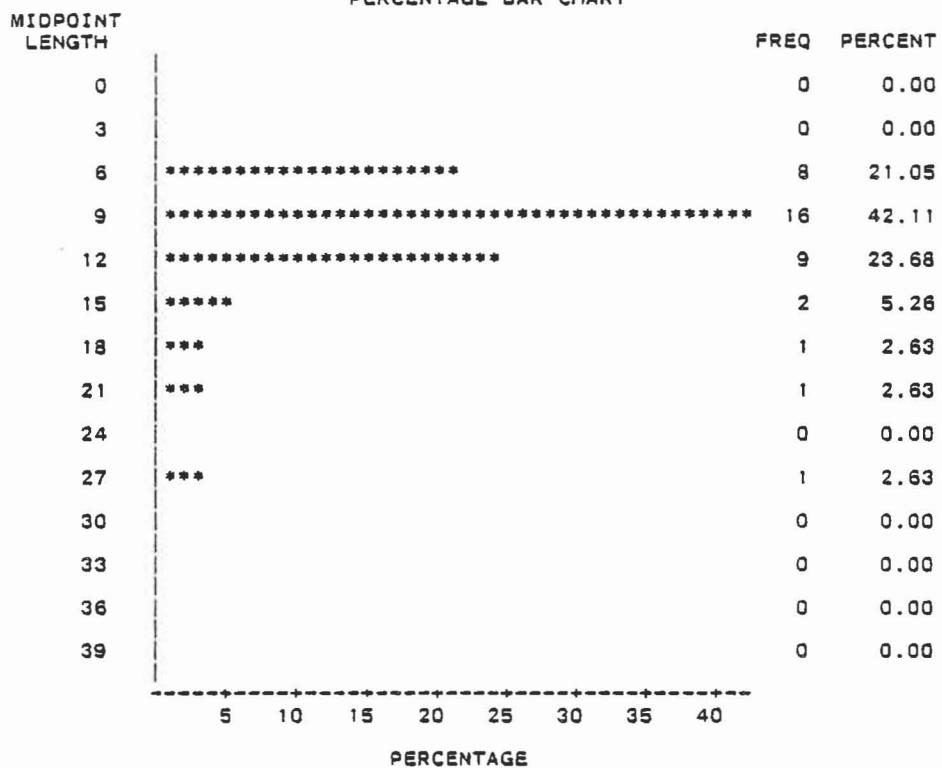


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8229.33

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8234.39

PERCENTAGE BAR CHART

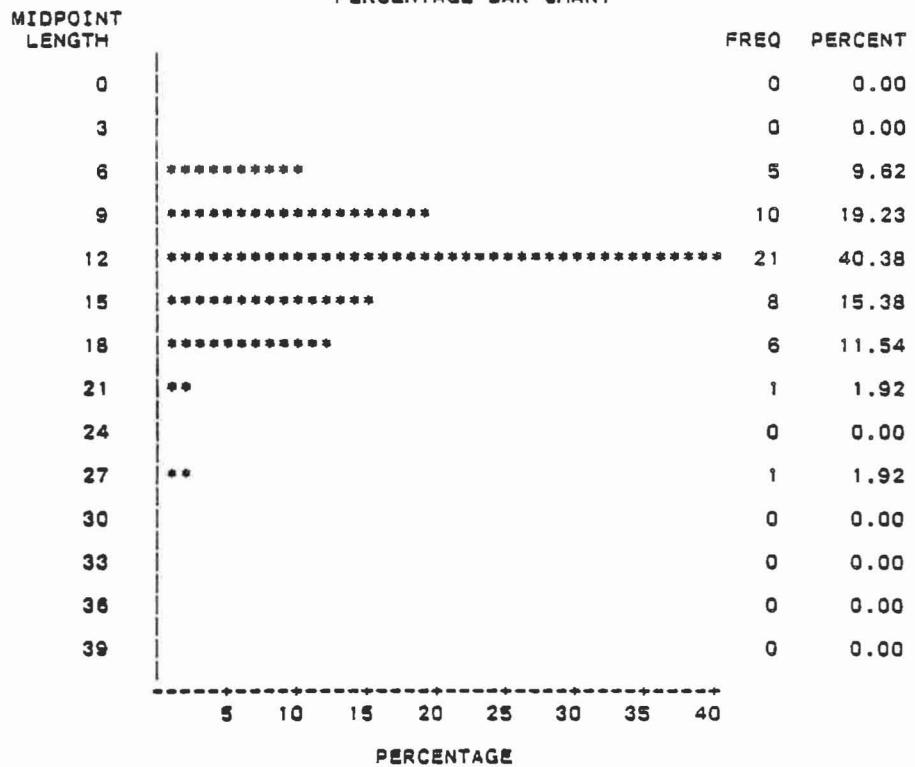
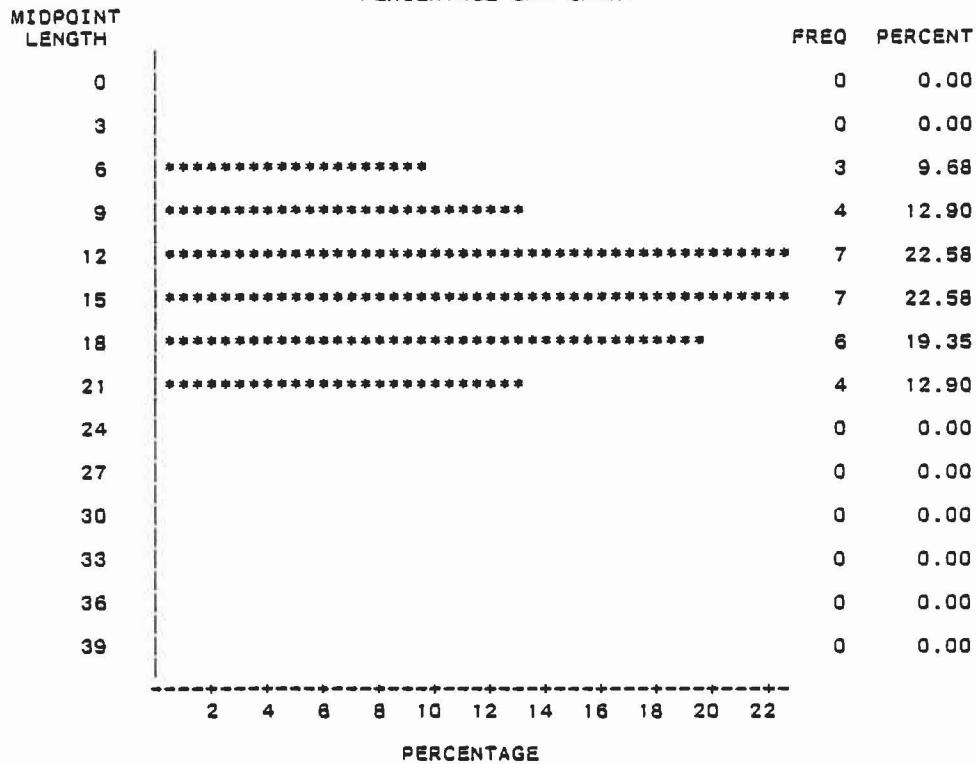


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8240.48

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8249.58

PERCENTAGE BAR CHART

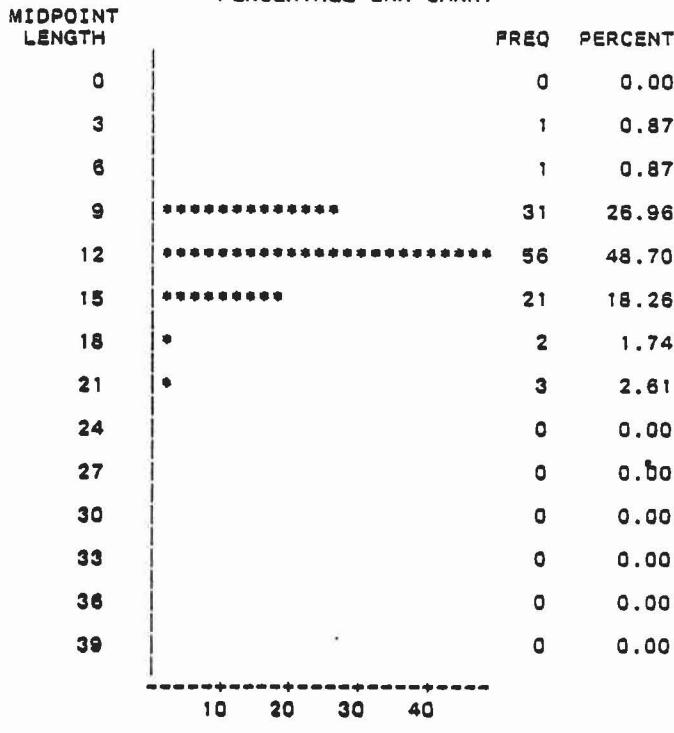
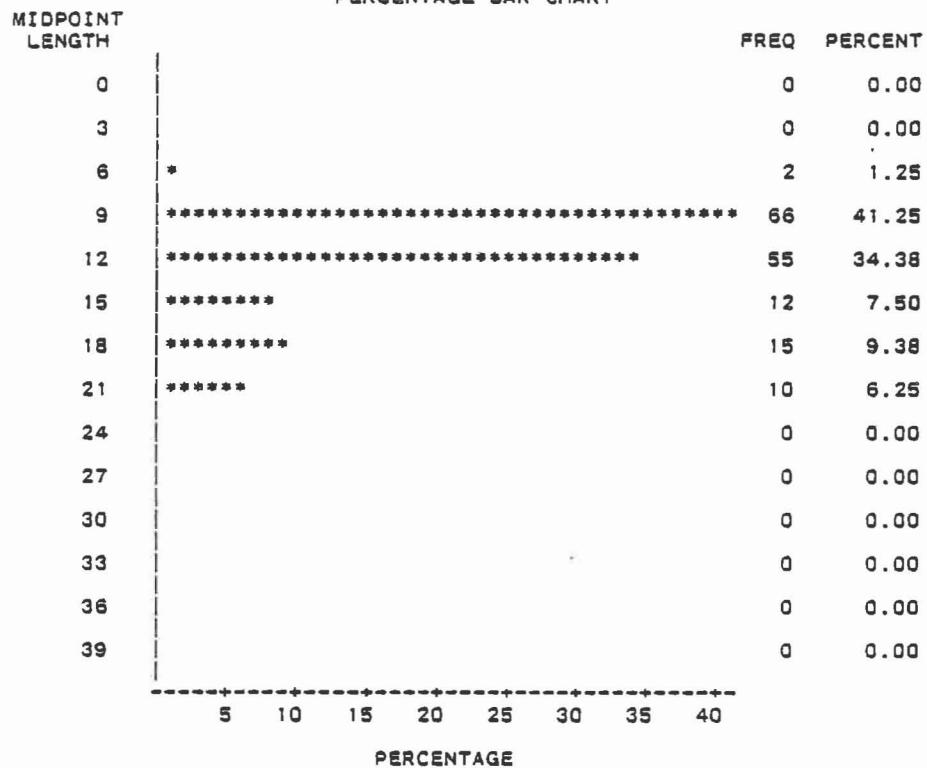


Fig. 2 (cont'd.)

PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8259.64

PERCENTAGE BAR CHART



PARATHEMISTO LIBELLULA LENGTH FREQUENCY P8301.06

PERCENTAGE BAR CHART

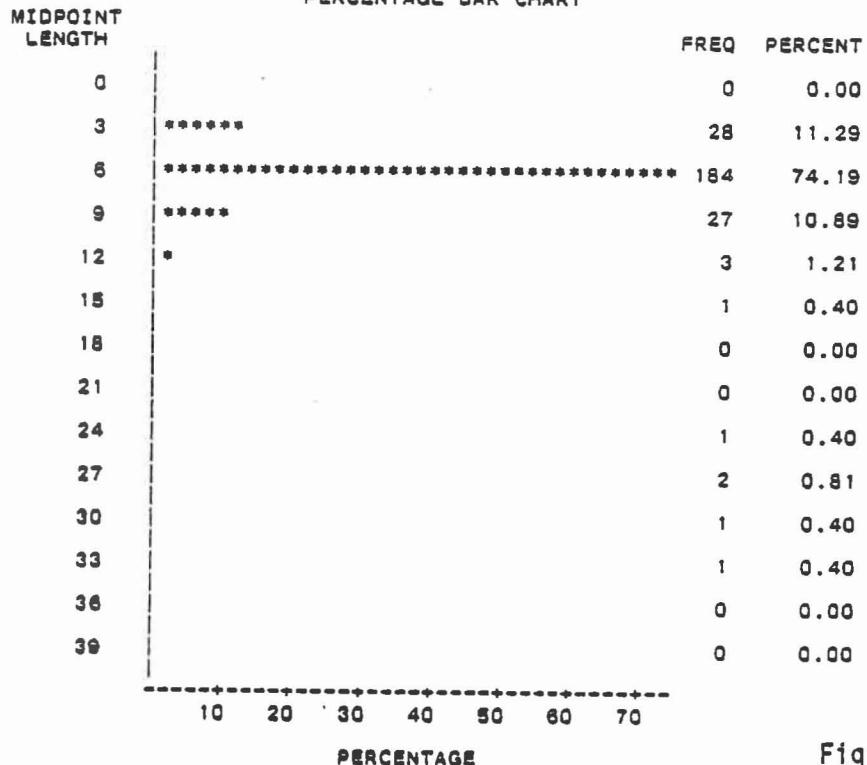


Fig. 2 (cont'd.)

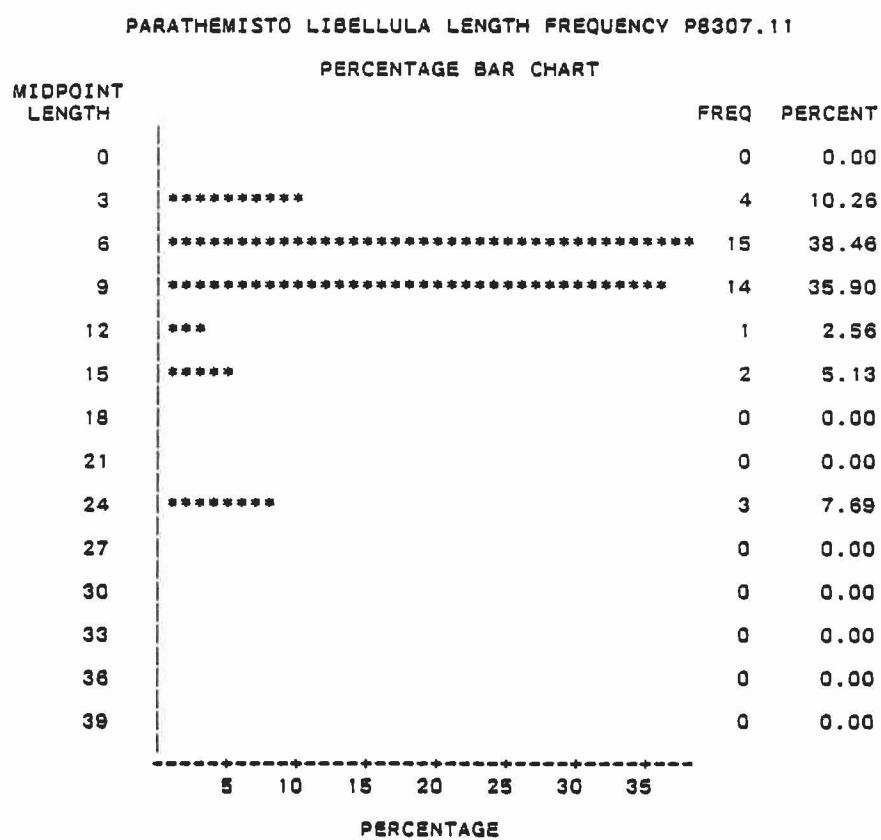
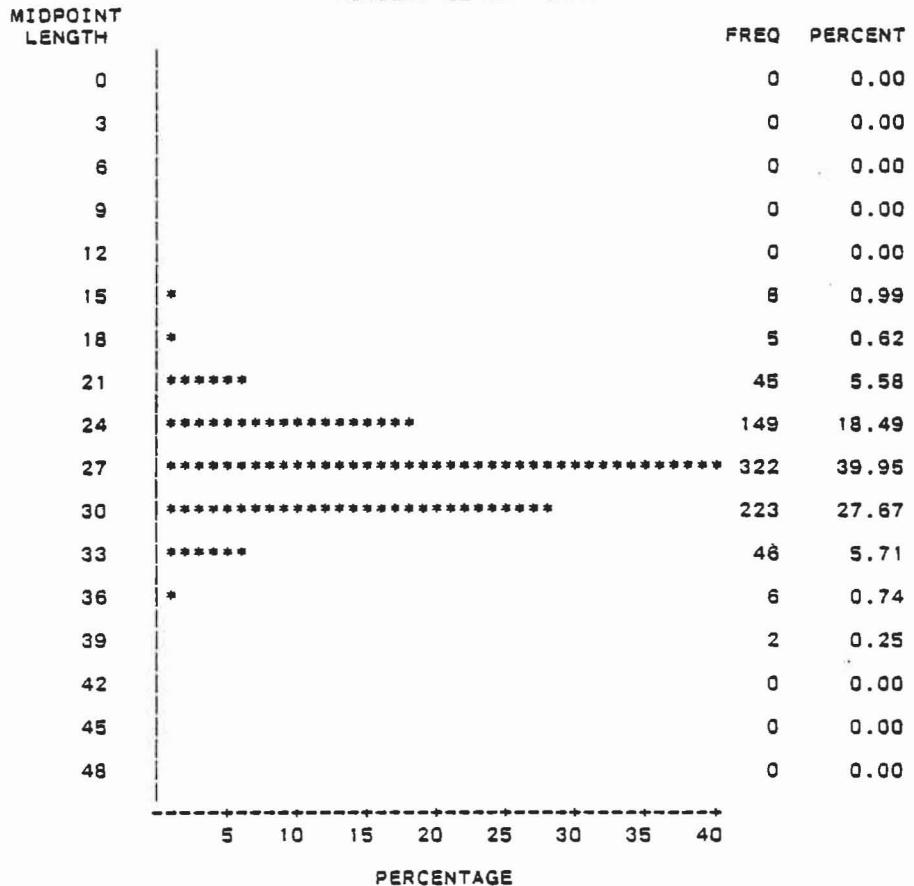


Fig. 2 (cont'd.)

Figure 3. Length frequency histograms for Sagitta elegans collected during the 1978 to 1983 open water seasons at various stations in Frobisher Bay. The code number in each chart title indicates the species (S), the year of collection (78) and the numbers of the collections from which length data were combined in preparing the histogram (e.g. S7802.06 indicates that length measurements for Sagitta from the 1978 collections numbered 02 to 06 inclusive were pooled). The date of collection and the station number can be obtained by referring to the collection numbers listed in Table I. The histograms are presented in chronological order.

SAGITTA ELEGANS LENGTH FREQUENCY S7801.06

85



SAGITTA ELEGANS LENGTH FREQUENCY S7807.12

PERCENTAGE BAR CHART

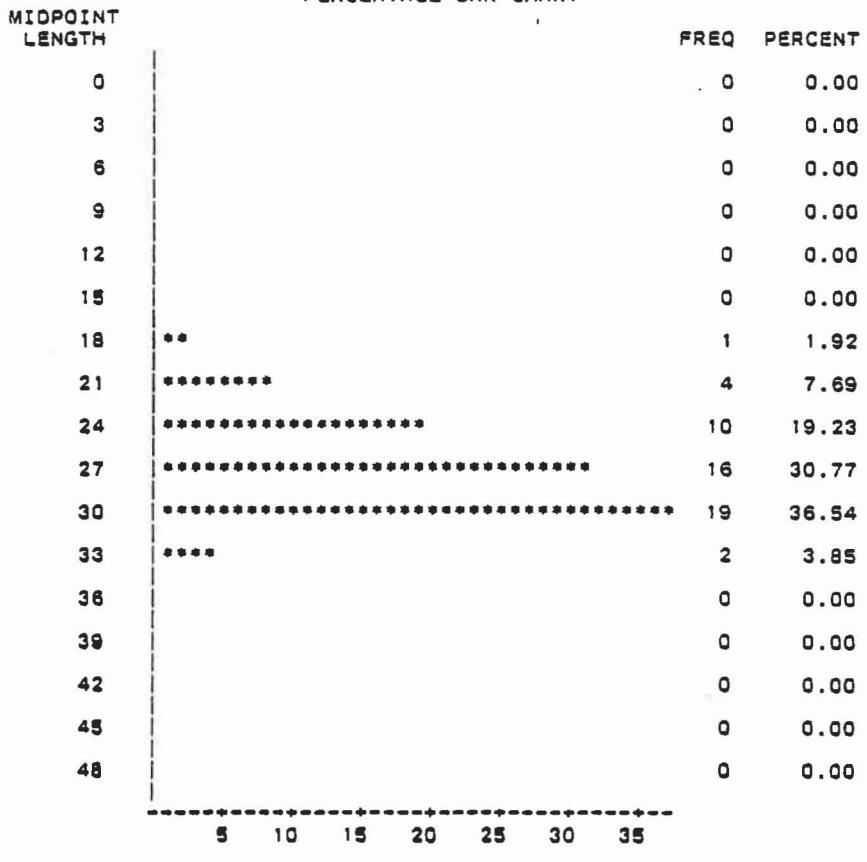


Fig. 3

SAGITTA ELEGANS LENGTH FREQUENCY S7813.18

86

MIDPOINT
LENGTH

PERCENTAGE BAR CHART

| MIDPOINT LENGTH | FREQ | PERCENT | |
|-----------------|-------|---------|-------|
| 0 | 0 | 0.00 | |
| 3 | 0 | 0.00 | |
| 6 | 0 | 0.00 | |
| 9 | 0 | 0.00 | |
| 12 | 0 | 0.00 | |
| 15 | 2 | 0.12 | |
| 18 | * | 13 | 0.76 |
| 21 | * | 9 | 0.53 |
| 24 | ***** | 130 | 7.58 |
| 27 | ***** | 389 | 22.70 |
| 30 | ***** | 673 | 39.26 |
| 33 | ***** | 367 | 21.41 |
| 36 | ***** | 131 | 7.64 |
| 39 | | 0 | 0.00 |
| 42 | | 0 | 0.00 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

5 10 15 20 25 30 35

PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY S7819.24

MIDPOINT
LENGTH

PERCENTAGE BAR CHART

| MIDPOINT LENGTH | FREQ | PERCENT | |
|-----------------|-------|---------|-------|
| 0 | 0 | 0.00 | |
| 3 | 0 | 0.00 | |
| 6 | 0 | 0.00 | |
| 9 | 0 | 0.00 | |
| 12 | 0 | 0.00 | |
| 15 | 0 | 0.00 | |
| 18 | | 0 | 0.00 |
| 21 | * | 5 | 1.11 |
| 24 | ***** | 25 | 5.57 |
| 27 | ***** | 118 | 26.28 |
| 30 | ***** | 181 | 40.31 |
| 33 | ***** | 90 | 20.04 |
| 36 | ***** | 26 | 5.79 |
| 39 | * | 4 | 0.89 |
| 42 | | 0 | 0.00 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

5 10 15 20 25 30 35 40

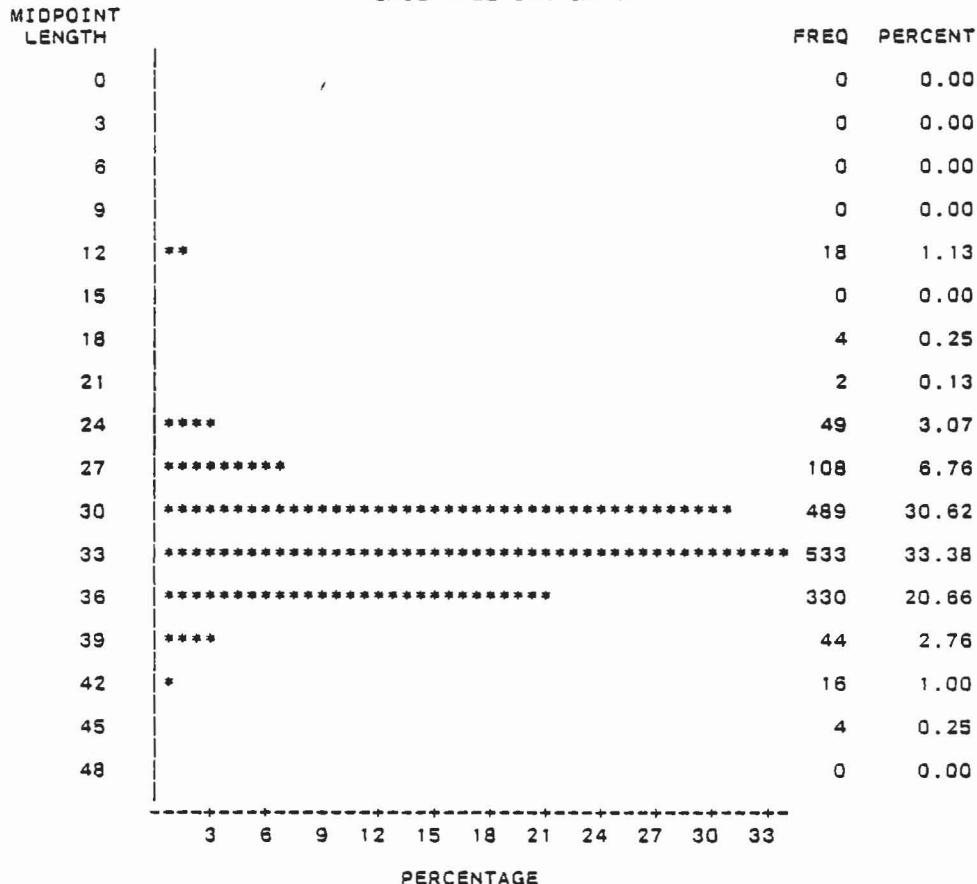
PERCENTAGE

Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S7825.30

PERCENTAGE BAR CHART

87



SAGITTA ELEGANS LENGTH FREQUENCY S7831.38

PERCENTAGE BAR CHART

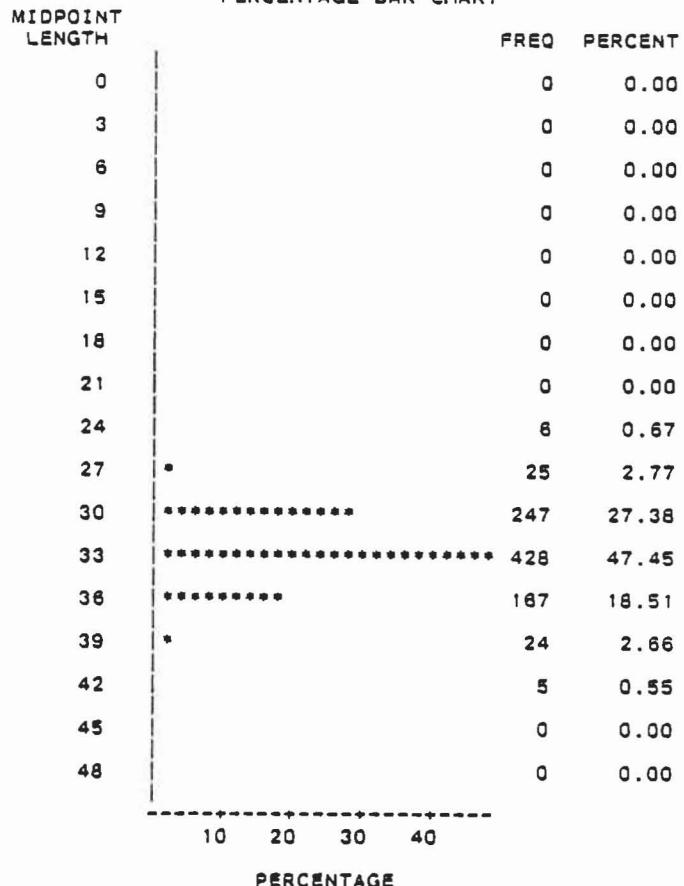
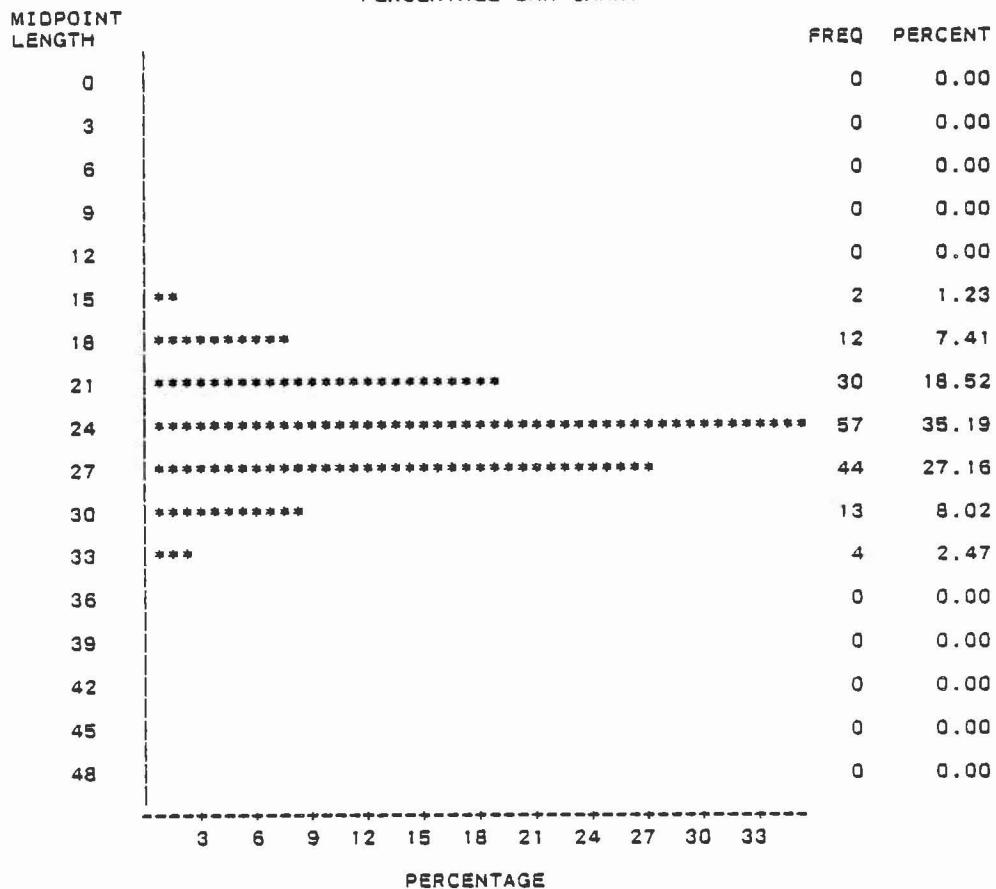


Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S7901.07

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S7908.16

PERCENTAGE BAR CHART

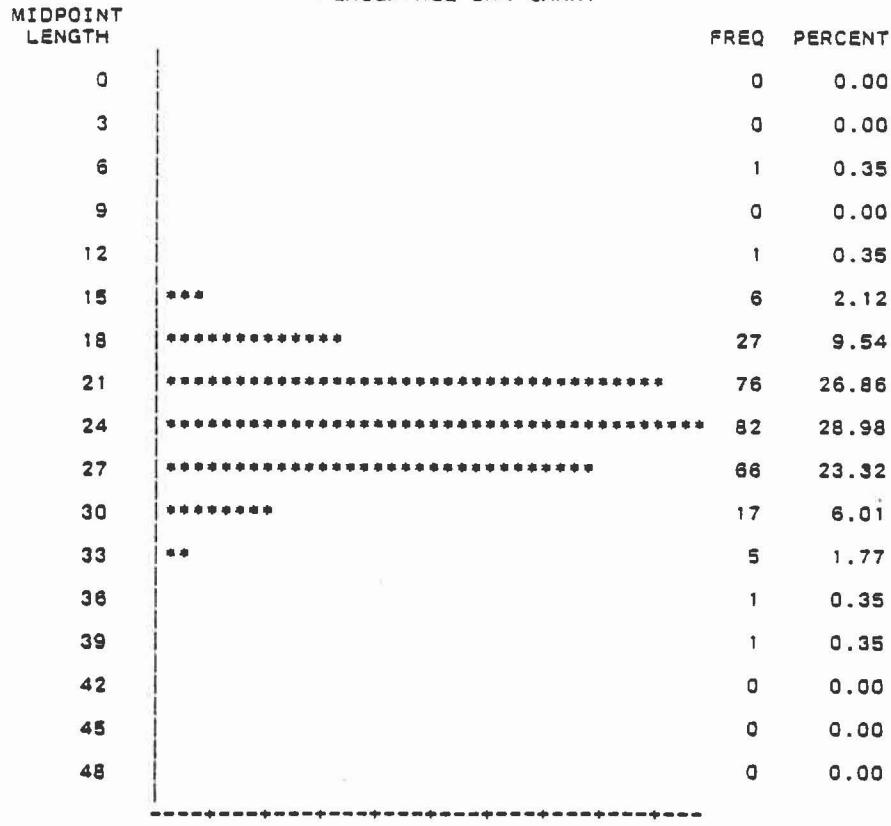
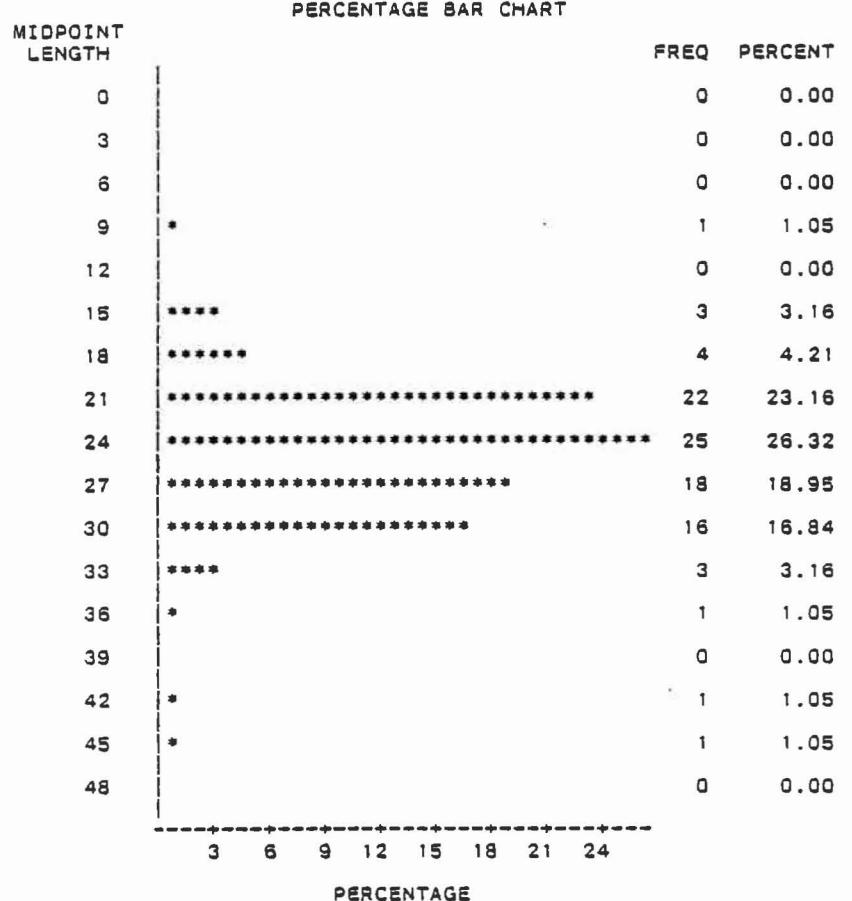


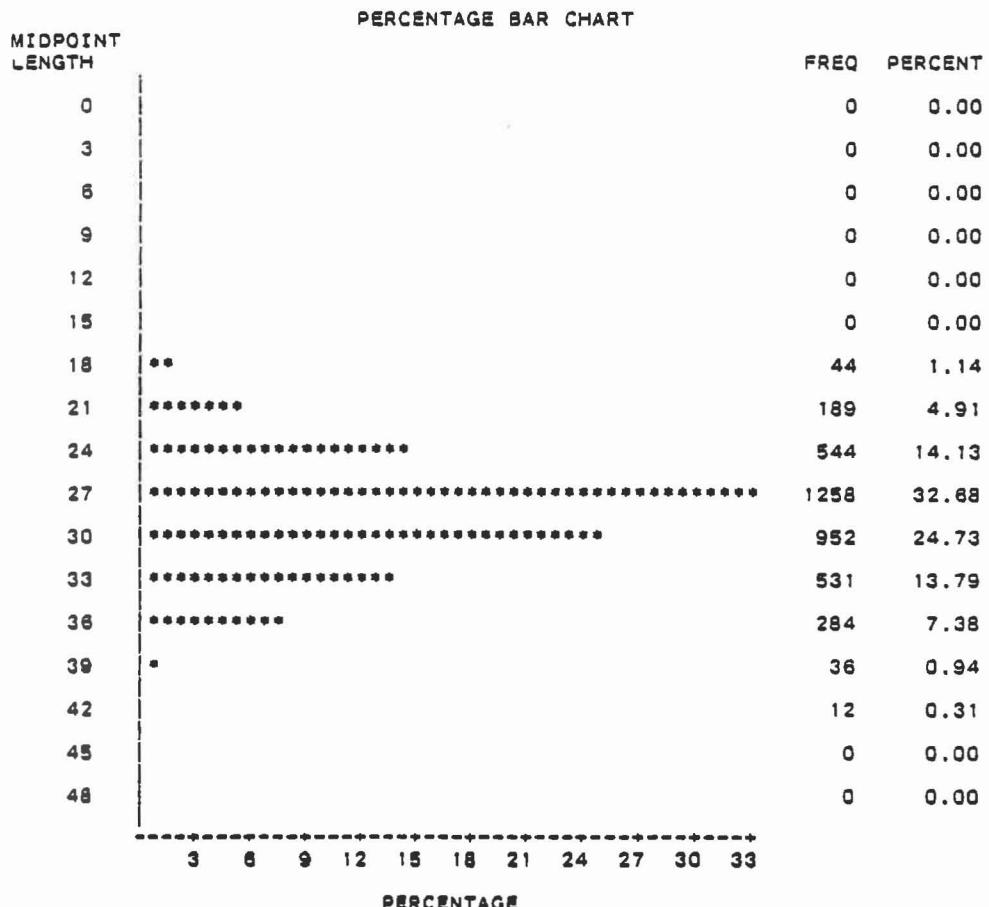
Fig. 3 (cont'd.).

SAGITTA ELEGANS LENGTH FREQUENCY S7917.25

89



SAGITTA ELEGANS LENGTH FREQUENCY S7926.32



SAGITTA ELEGANS LENGTH FREQUENCY S7933.37

PERCENTAGE BAR CHART

| MIDPOINT LENGTH | PERCENTAGE DATA CHART | | FREQ | PERCENT |
|--------------------|-----------------------|-----|------|---------|
| | 0 | 100 | | |
| 0 | * | * | 0 | 0.00 |
| 3 | * | * | 0 | 0.00 |
| 6 | * | * | 0 | 0.00 |
| 9 | * | * | 0 | 0.00 |
| 12 | * | * | 1 | 0.97 |
| 15 | * | * | 0 | 0.00 |
| 18 | * | * | 0 | 0.00 |
| 21 | *** | * | 2 | 1.94 |
| 24 | ***** | * | 5 | 4.85 |
| 27 | ***** | * | 14 | 13.59 |
| 30 | ***** | * | 34 | 33.01 |
| 33 | ***** | * | 27 | 26.21 |
| 36 | ***** | * | 19 | 18.45 |
| 39 | * | * | 1 | 0.97 |
| 42 | * | * | 0 | 0.00 |
| 45 | * | * | 0 | 0.00 |
| 48 | * | * | 0 | 0.00 |

SACITTA ELEGANS LENGTH FREQUENCY S3028 44

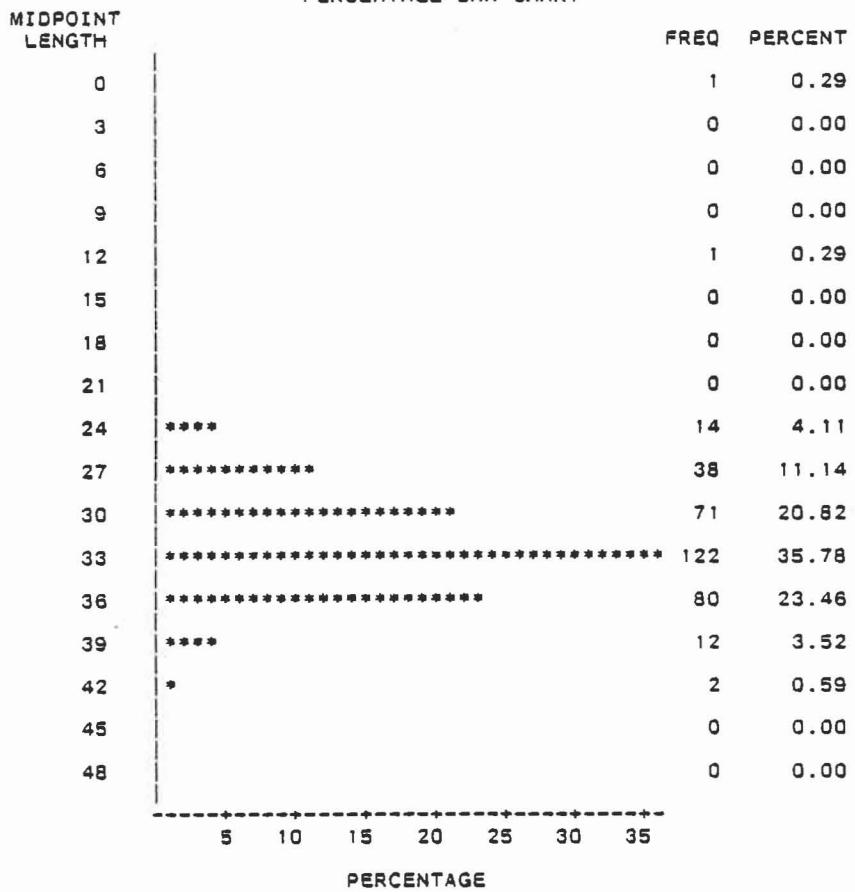
PERCENTAGE BAR CHART

| MIDPOINT LENGTH | PERCENTAGE BAR CHART | | |
|--------------------|----------------------|---------|--|
| | FREQ | PERCENT | |
| 0 | 0 | 0.00 | |
| 3 | 0 | 0.00 | |
| 6 | 0 | 0.00 | |
| 9 | 0 | 0.00 | |
| 12 | * | 0.53 | |
| 15 | * | 0.53 | |
| 18 | * | 0.53 | |
| 21 | * | 0.53 | |
| 24 | **** | 3.72 | |
| 27 | *****#***** | 18.62 | |
| 30 | *****#***** | 44.15 | |
| 33 | *****#***** | 24.47 | |
| 36 | ***** | 5.32 | |
| 39 | ** | 1.60 | |
| 42 | * | 0.53 | |
| 45 | 0 | 0.00 | |
| 48 | 0 | 0.00 | |

Fig. 3 (cont'd.)

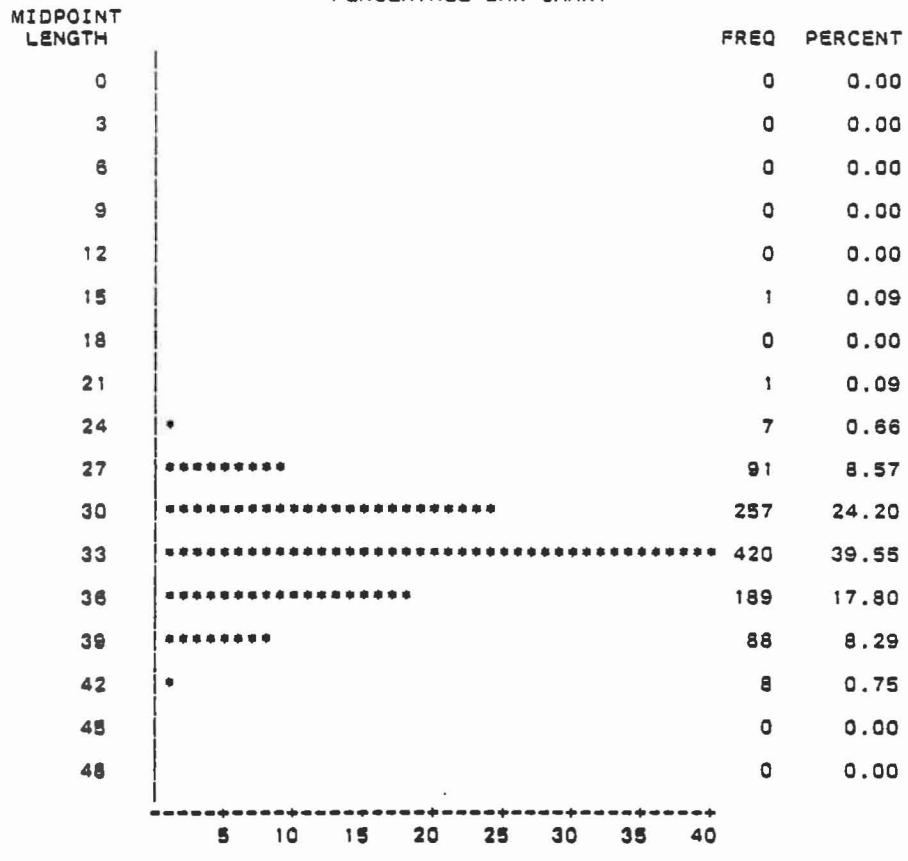
SAGITTA ELEGANS LENGTH FREQUENCY S7945.50

91



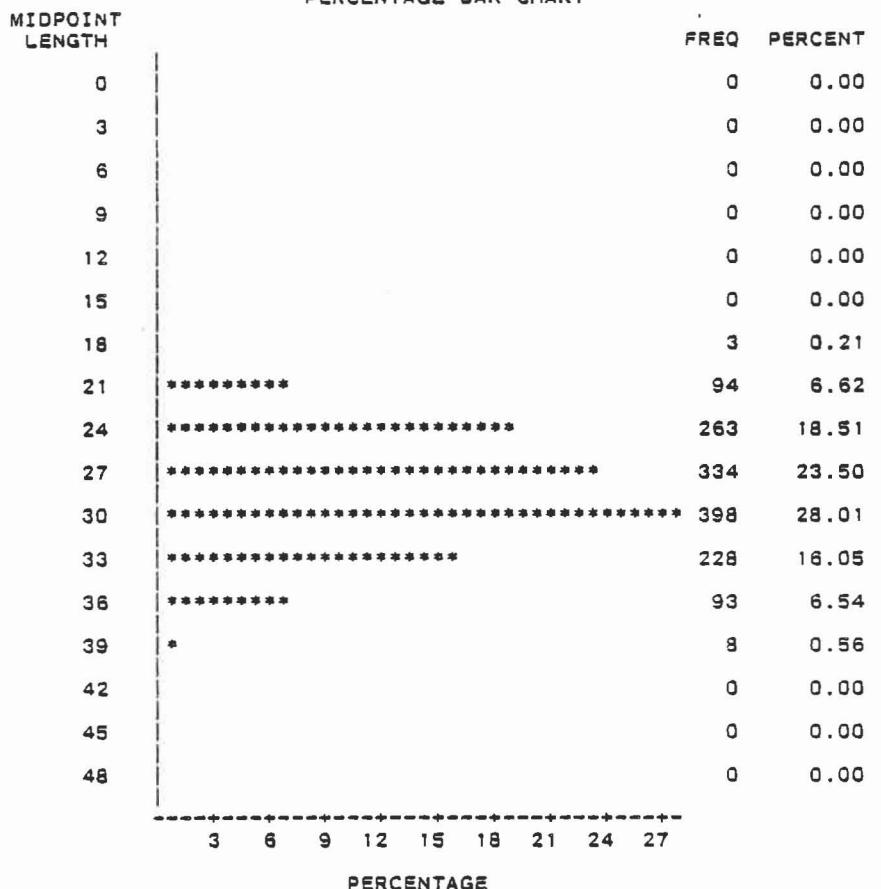
SAGITTA ELEGANS LENGTH FREQUENCY S7951.58

PERCENTAGE BAR CHART



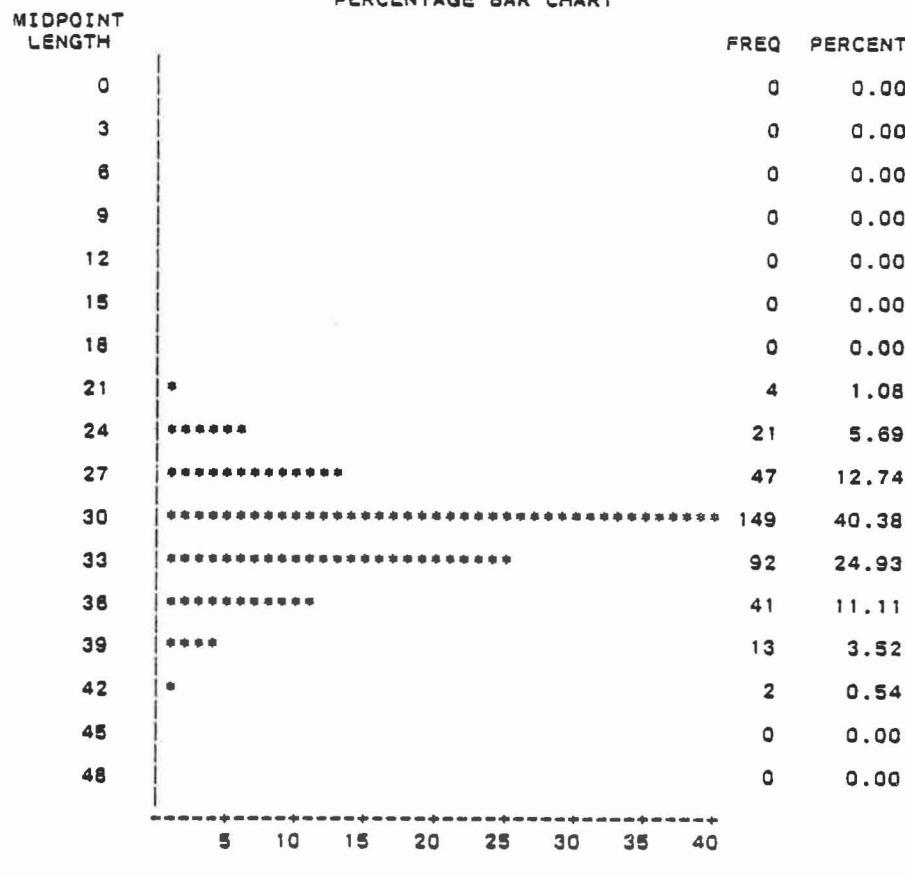
SAGITTA ELEGANS LENGTH FREQUENCY S8001.06

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S8007.12

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S8013.20

PERCENTAGE BAR CHART

93

| MIDPOINT LENGTH | FREQ | PERCENT |
|-----------------|------|---------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | 0 | 0.00 |
| 15 | 0 | 0.00 |
| 18 | 1 | 0.24 |
| 21 | 5 | 1.18 |
| 24 | 25 | 5.88 |
| 27 | 93 | 21.88 |
| 30 | 141 | 33.18 |
| 33 | 116 | 27.29 |
| 36 | 34 | 8.00 |
| 39 | 8 | 1.88 |
| 42 | 2 | 0.47 |
| 45 | 0 | 0.00 |
| 48 | 0 | 0.00 |

SAGITTA ELEGANS LENGTH FREQUENCY S8021.27

PERCENTAGE BAR CHART

| MIDPOINT LENGTH | FREQ | PERCENT |
|-----------------|-------|----------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | * | 3 1.32 |
| 15 | | 0 0.00 |
| 18 | | 0 0.00 |
| 21 | * | 2 0.88 |
| 24 | **** | 9 3.96 |
| 27 | ***** | 31 13.66 |
| 30 | ***** | 60 26.43 |
| 33 | ***** | 84 37.00 |
| 36 | ***** | 30 13.22 |
| 39 | *** | 7 3.08 |
| 42 | | 1 0.44 |
| 45 | | 0 0.00 |
| 48 | | 0 0.00 |

Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S8028.33

PERCENTAGE BAR CHART

94 MIDPOINT LENGTH

FREQ PERCENT

| | | | |
|----|-------|-----|-------|
| 0 | | 0 | 0.00 |
| 3 | | 0 | 0.00 |
| 6 | | 0 | 0.00 |
| 9 | | 0 | 0.00 |
| 12 | | 0 | 0.00 |
| 15 | | 0 | 0.00 |
| 18 | | 6 | 0.50 |
| 21 | ** | 30 | 2.50 |
| 24 | ***** | 97 | 8.07 |
| 27 | ***** | 183 | 15.22 |
| 30 | ***** | 479 | 39.85 |
| 33 | ***** | 268 | 22.30 |
| 36 | ***** | 114 | 9.48 |
| 39 | ** | 25 | 2.08 |
| 42 | | 0 | 0.00 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

-----+-----+-----+-----+-----+-----+-----+-----+

PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY S8034.40

PERCENTAGE BAR CHART

MIDPOINT LENGTH

FREQ PERCENT

| | | | |
|----|-------|-----|-------|
| 0 | | 0 | 0.00 |
| 3 | | 0 | 0.00 |
| 6 | | 0 | 0.00 |
| 9 | | 1 | 0.09 |
| 12 | | 4 | 0.35 |
| 15 | | 1 | 0.09 |
| 18 | | 0 | 0.00 |
| 21 | | 0 | 0.00 |
| 24 | * | 16 | 1.42 |
| 27 | ***** | 75 | 6.65 |
| 30 | ***** | 330 | 29.26 |
| 33 | ***** | 436 | 38.65 |
| 36 | ***** | 220 | 19.50 |
| 39 | *** | 45 | 3.99 |
| 42 | | 0 | 0.00 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

Fig. 3 (cont'd.)

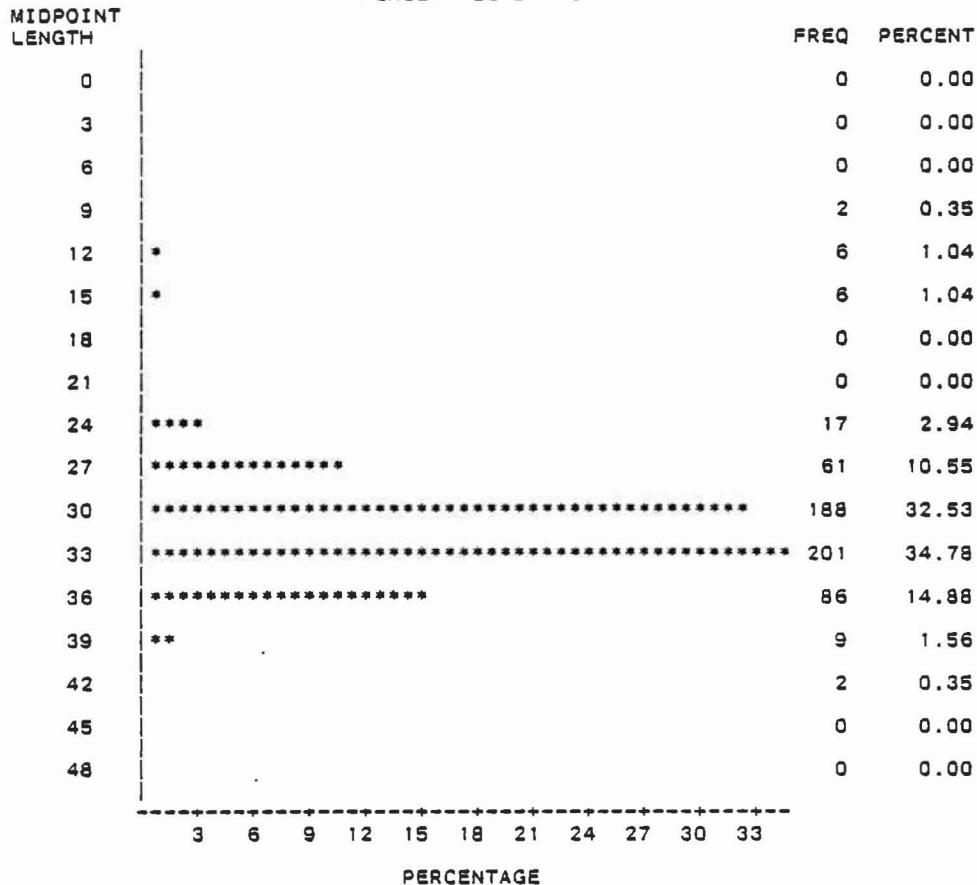
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PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY S8041.45

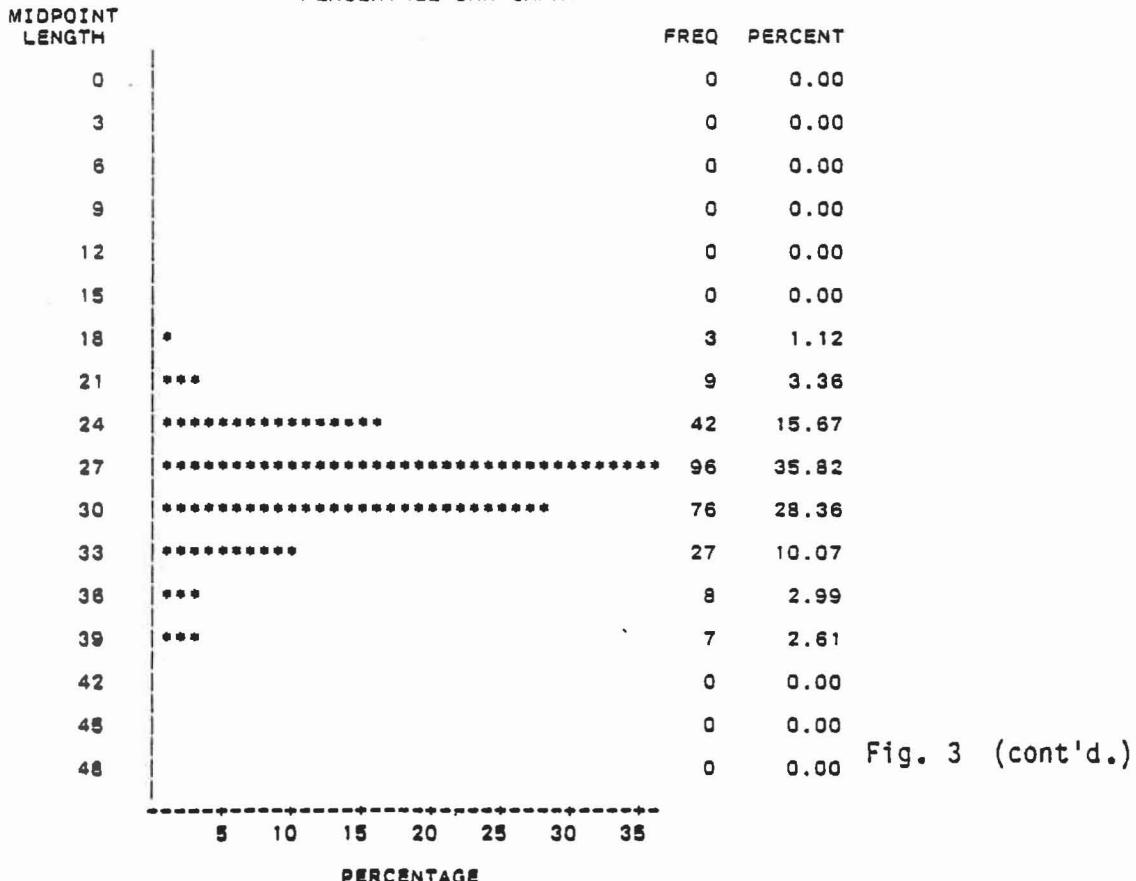
PERCENTAGE BAR CHART

95



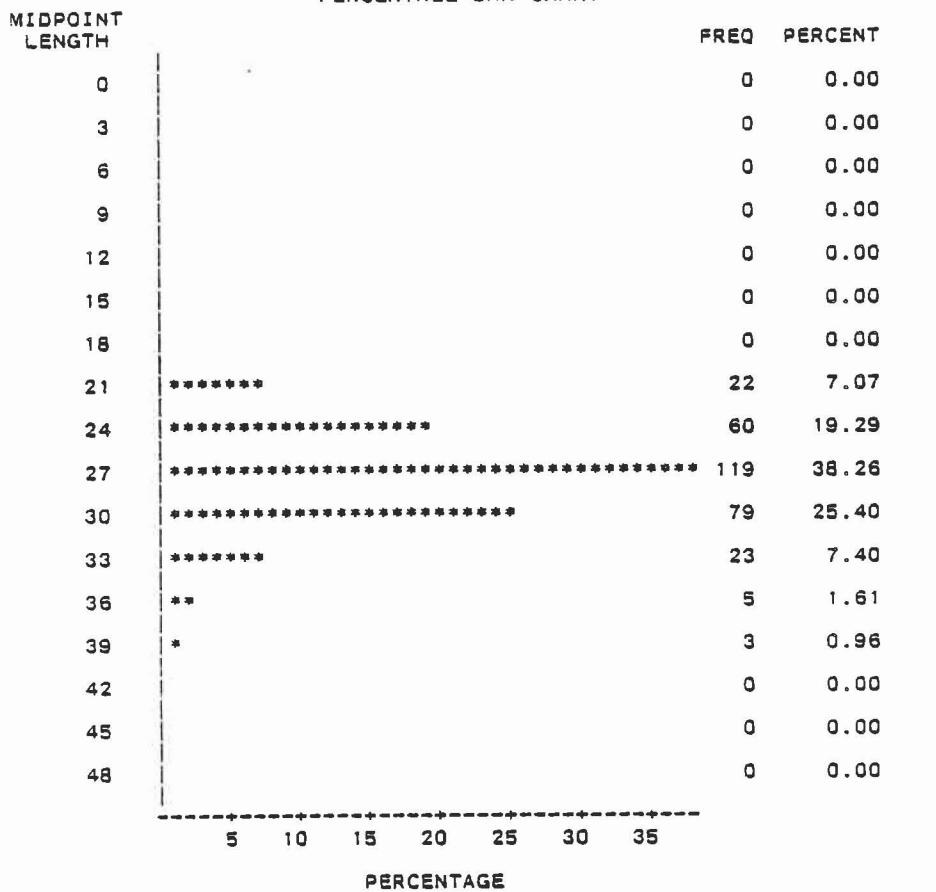
SAGITTA ELEGANS LENGTH FREQUENCY S8101.06

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S8107.15

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S8116.22

PERCENTAGE BAR CHART

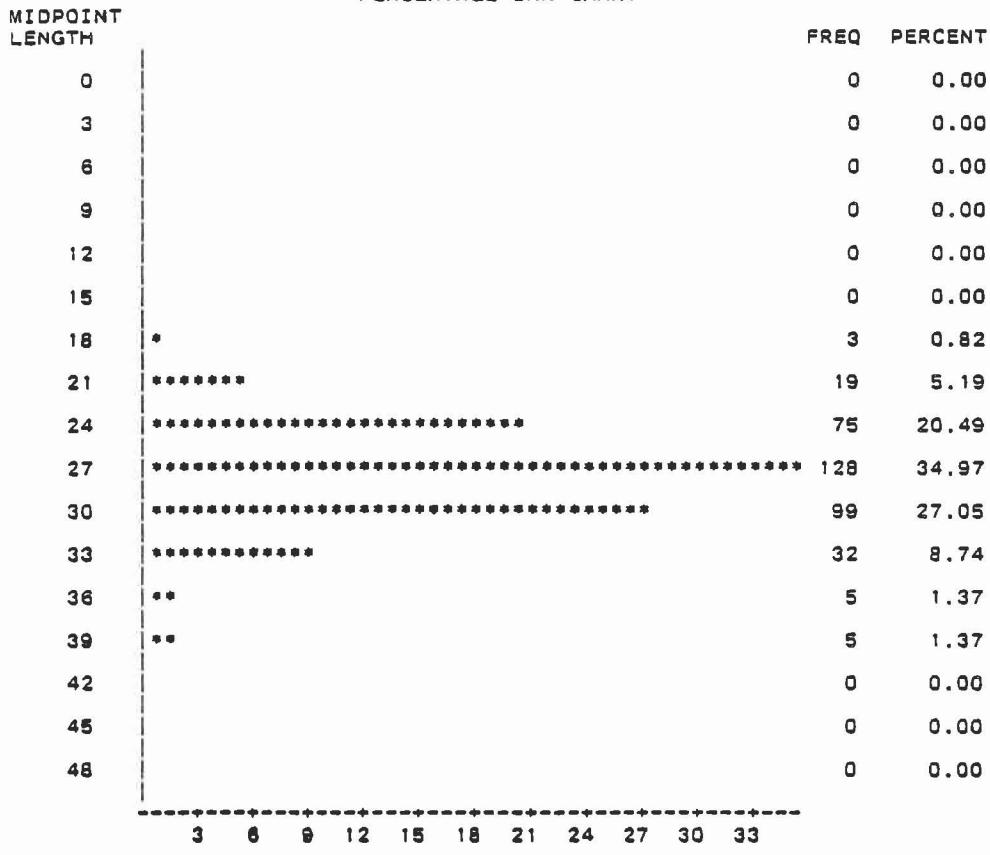
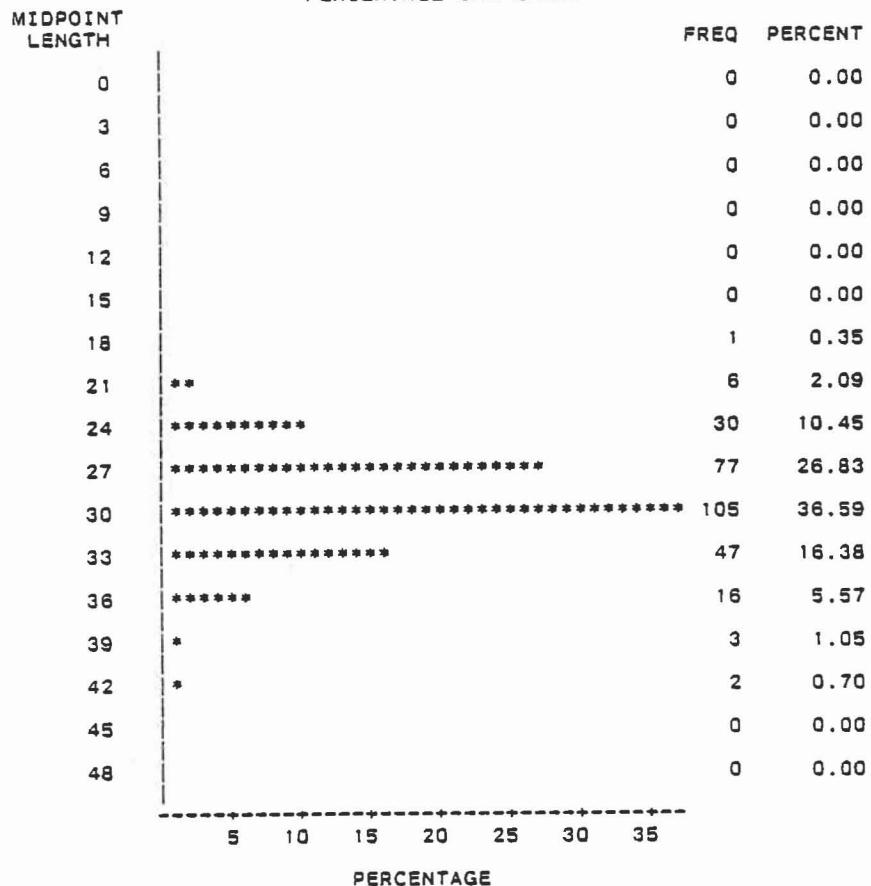


Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S8123.28

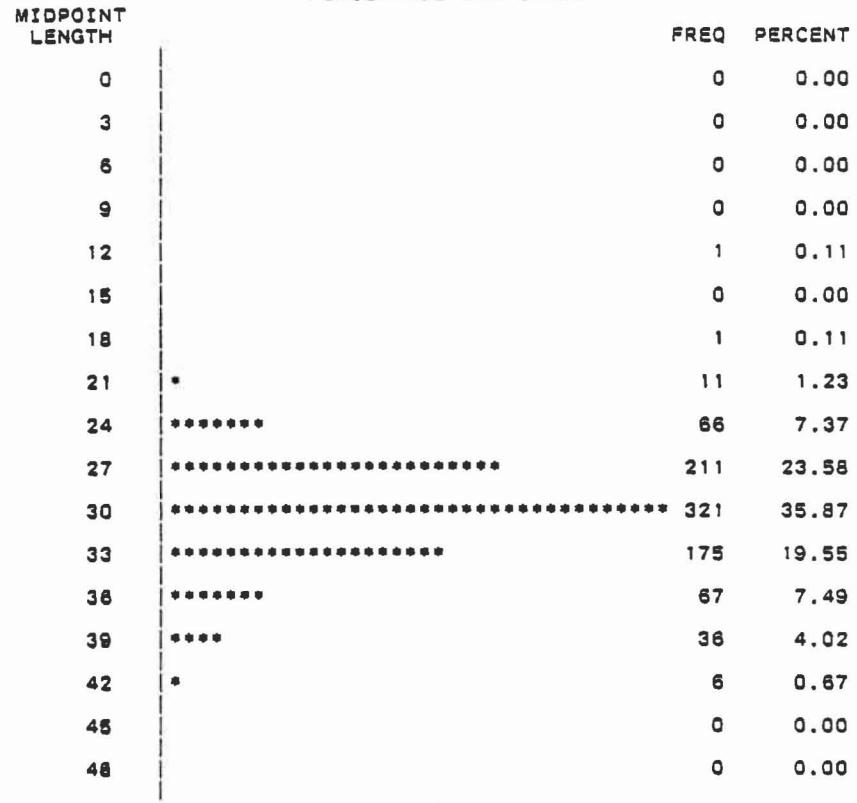
PERCENTAGE BAR CHART

97



SAGITTA ELEGANS LENGTH FREQUENCY S8129.37

PERCENTAGE BAR CHART



98

SAGITTA ELEGANS LENGTH FREQUENCY SB138.43

PERCENTAGE BAR CHART

MIDPOINT
LENGTH

FREQ PERCENT

| | | |
|----|----|-------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | 0 | 0.00 |
| 15 | 1 | 0.37 |
| 18 | 1 | 0.37 |
| 21 | 7 | 2.62 |
| 24 | 29 | 10.86 |
| 27 | 51 | 19.10 |
| 30 | 86 | 32.21 |
| 33 | 66 | 24.72 |
| 36 | 18 | 6.74 |
| 39 | 7 | 2.62 |
| 42 | 1 | 0.37 |
| 45 | 0 | 0.00 |
| 48 | 0 | 0.00 |

3 6 9 12 15 18 21 24 27 30

PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY SB144.50

PERCENTAGE BAR CHART

MIDPOINT
LENGTH

FREQ PERCENT

| | | |
|----|----|-------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | 1 | 1.47 |
| 15 | 1 | 1.47 |
| 18 | 0 | 0.00 |
| 21 | 2 | 2.94 |
| 24 | 4 | 5.88 |
| 27 | 15 | 22.06 |
| 30 | 22 | 32.35 |
| 33 | 16 | 23.53 |
| 36 | 5 | 7.35 |
| 39 | 1 | 1.47 |
| 42 | 0 | 0.00 |
| 45 | 1 | 1.47 |
| 48 | 0 | 0.00 |

Fig. 3 (cont'd.)

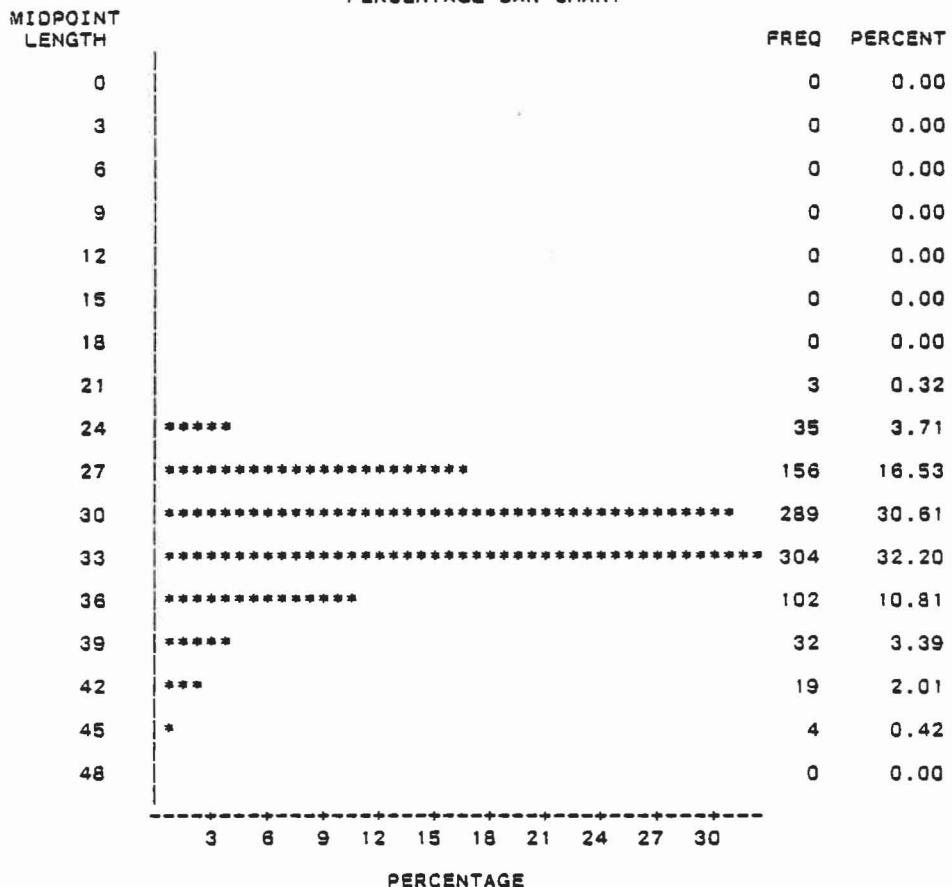
3 6 9 12 15 18 21 24 27 30

PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY SB151.59

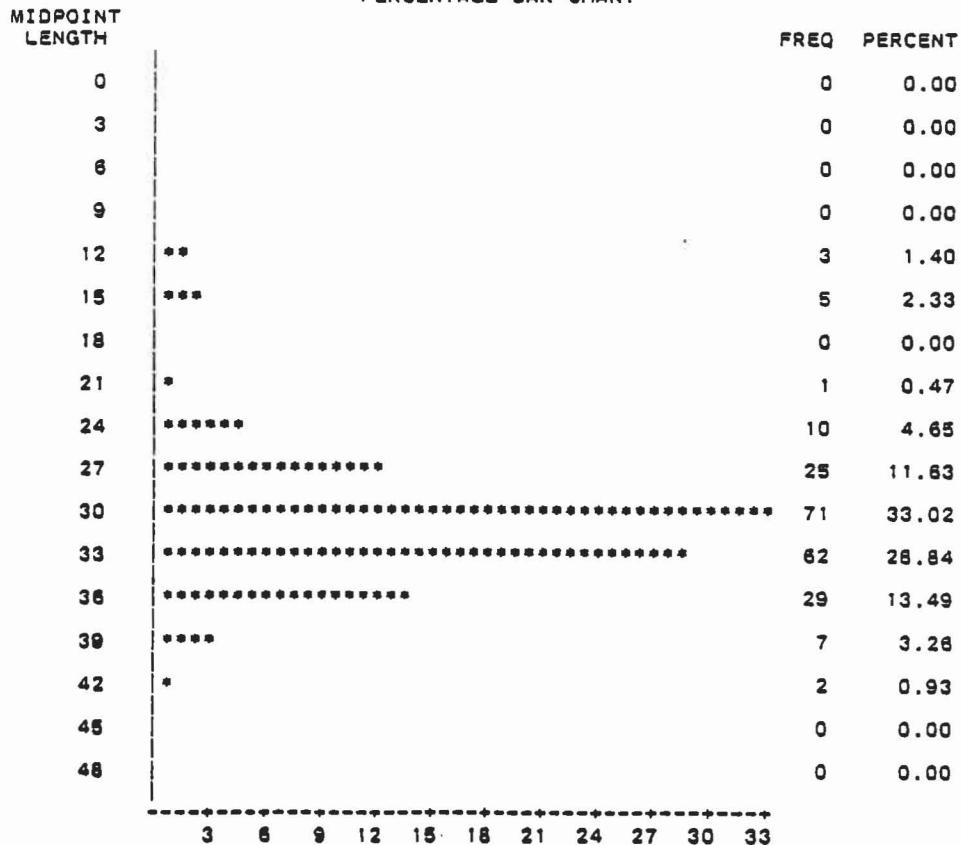
99

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY SB160.66

PERCENTAGE BAR CHART



100

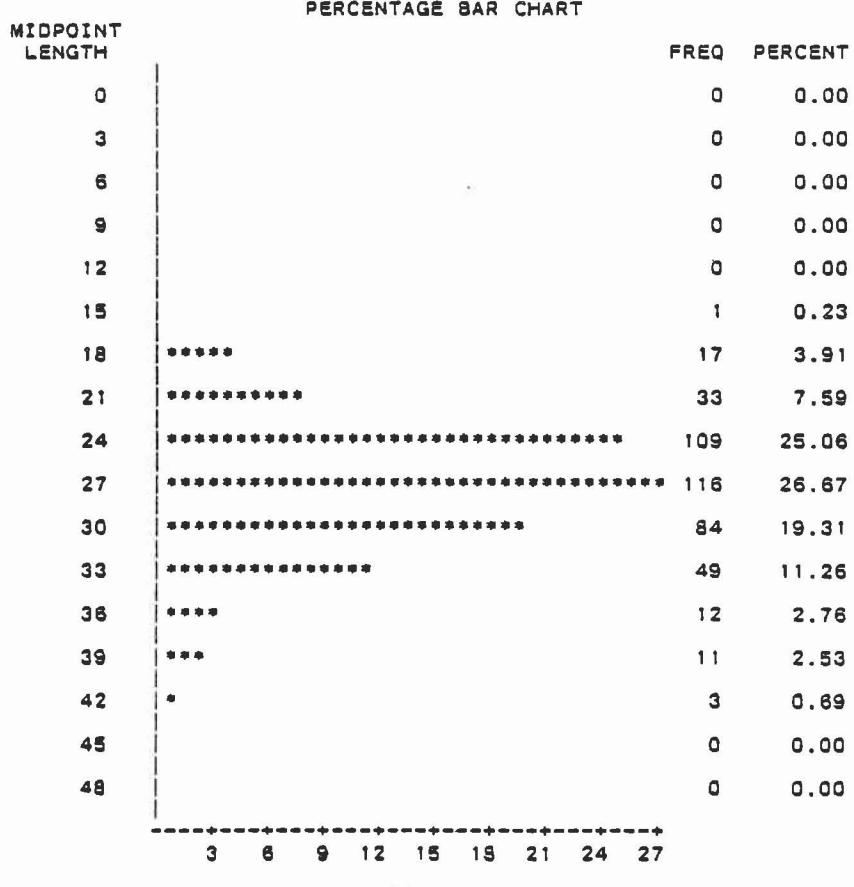
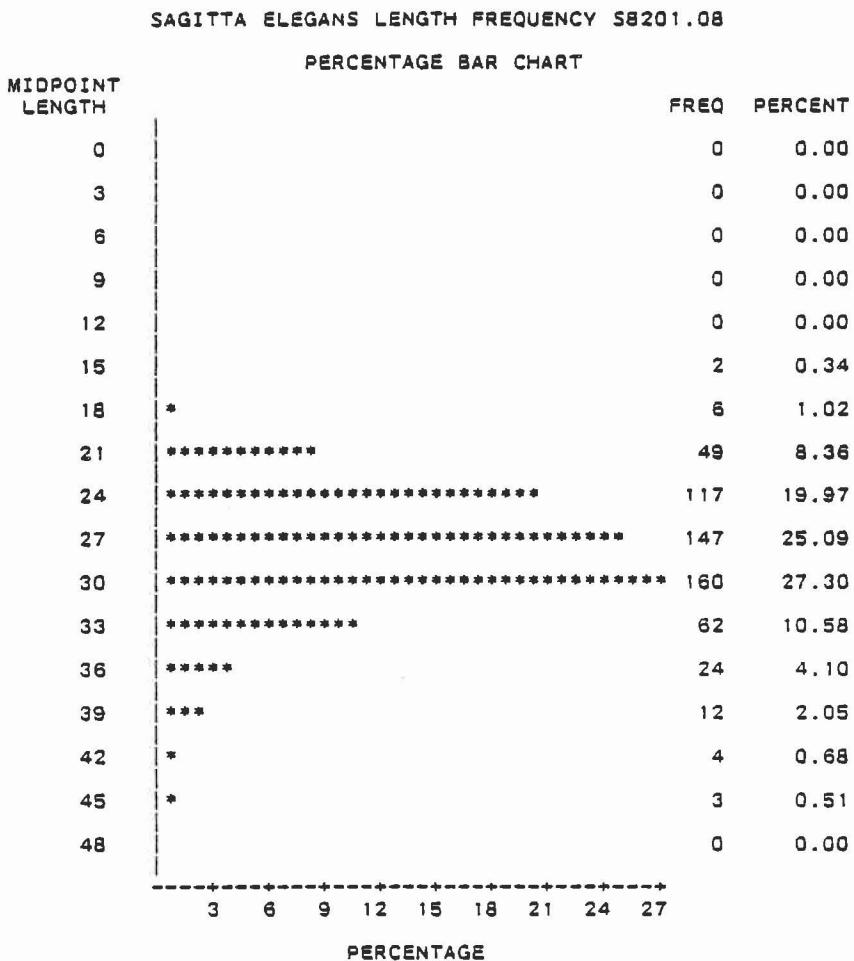
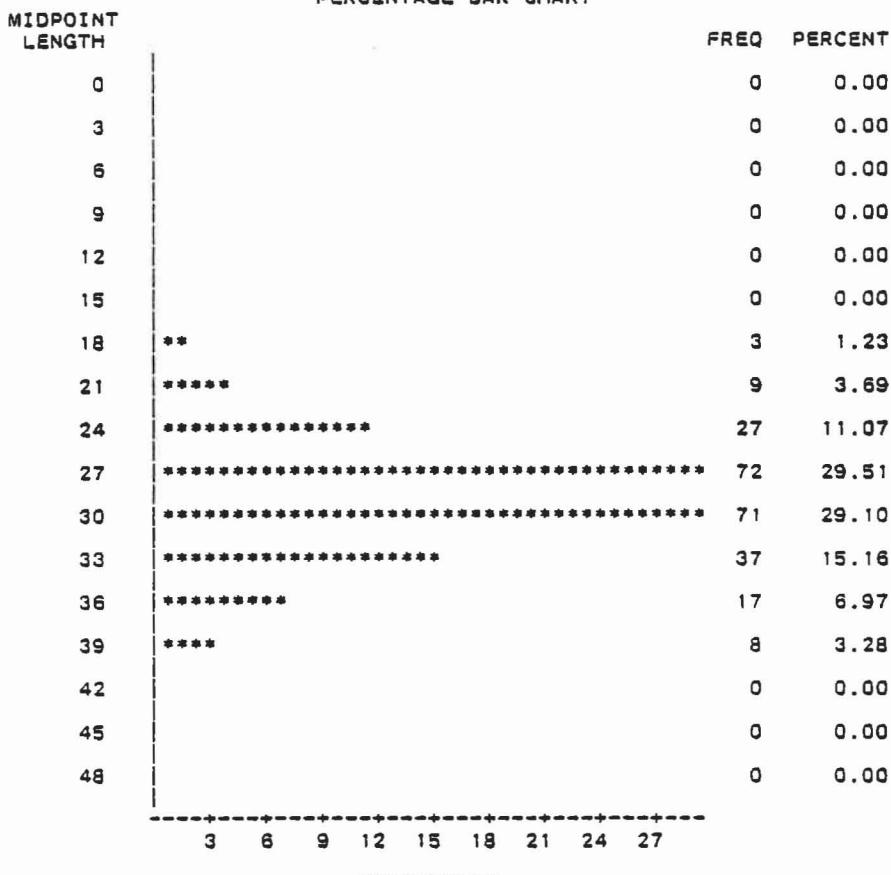


Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S8218.25

PERCENTAGE BAR CHART

101



SAGITTA ELEGANS LENGTH FREQUENCY S8229.33

PERCENTAGE BAR CHART

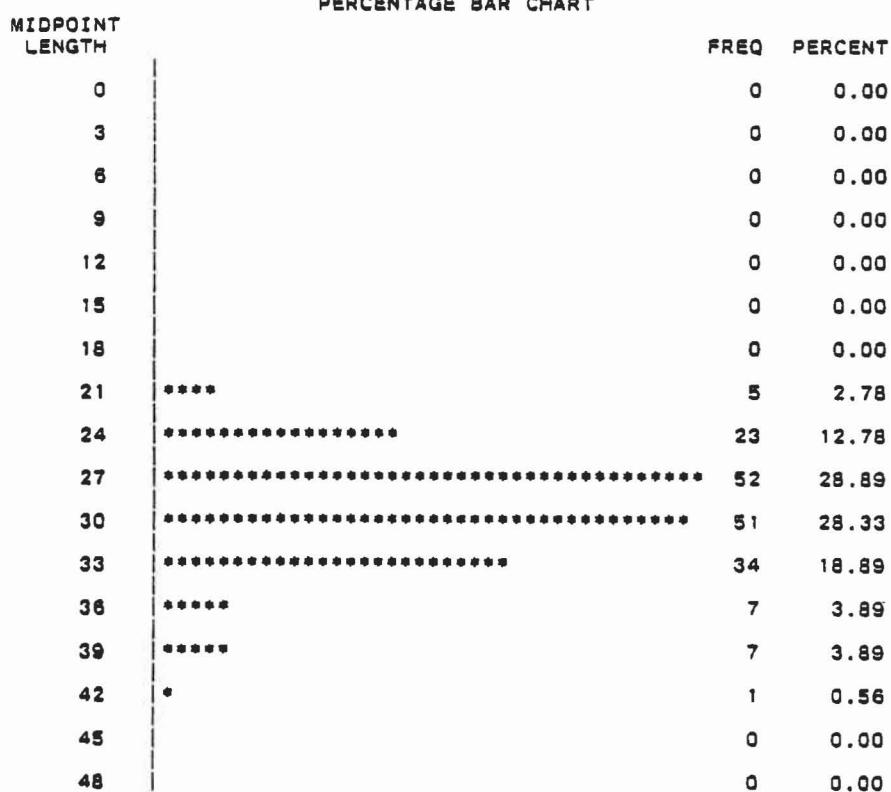


Fig. 3 (cont'd.)

SAGITTA ELEGANS LENGTH FREQUENCY S8234.39

PERCENTAGE BAR CHART

102

MIDPOINT
LENGTH

FREQ PERCENT

| | | | |
|----|-------|----|-------|
| 0 | | 0 | 0.00 |
| 3 | | 0 | 0.00 |
| 6 | | 0 | 0.00 |
| 9 | | 0 | 0.00 |
| 12 | | 1 | 0.36 |
| 15 | | 0 | 0.00 |
| 18 | | 0 | 0.00 |
| 21 | * | 3 | 1.07 |
| 24 | ***** | 34 | 12.10 |
| 27 | ***** | 79 | 28.11 |
| 30 | ***** | 94 | 33.45 |
| 33 | ***** | 42 | 14.95 |
| 36 | ***** | 15 | 5.34 |
| 39 | ***** | 11 | 3.91 |
| 42 | * | 2 | 0.71 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

SAGITTA ELEGANS LENGTH FREQUENCY SB240.48

PERCENTAGE BAR CHART

MIDPOINT LENGTH

FREQ PERCENT

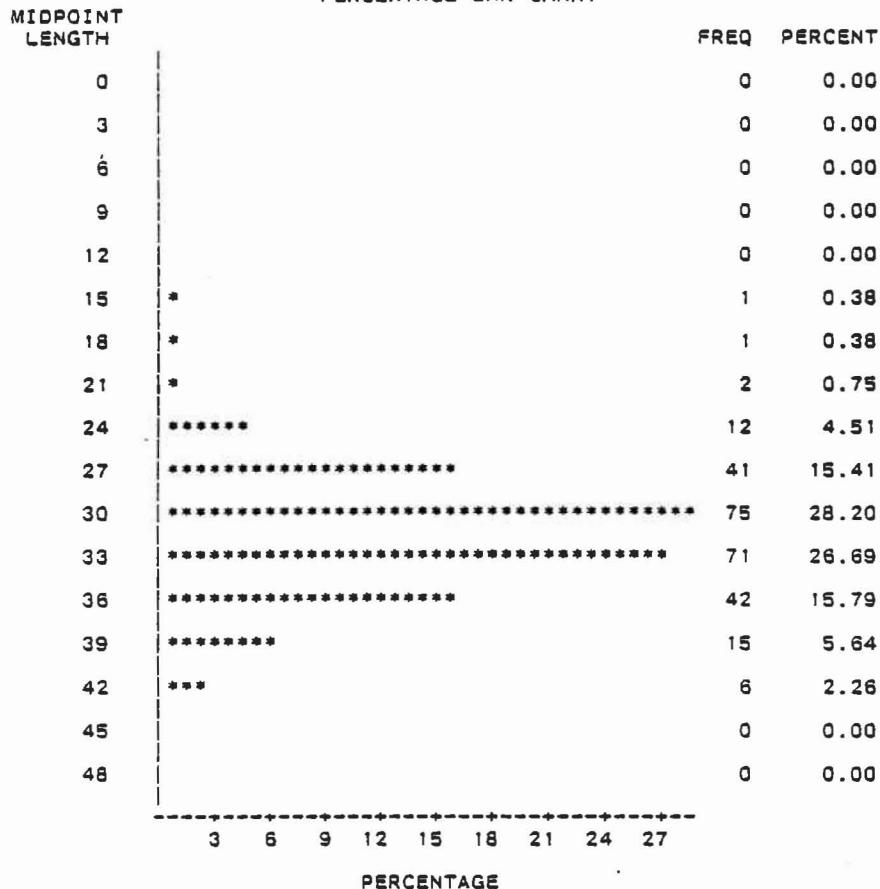
| | | | |
|----|-------|-----|-------|
| 0 | | 0 | 0.00 |
| 3 | | 0 | 0.00 |
| 6 | | 0 | 0.00 |
| 9 | | 0 | 0.00 |
| 12 | | 1 | 0.29 |
| 15 | | 0 | 0.00 |
| 18 | | 0 | 0.00 |
| 21 | ** | 5 | 1.47 |
| 24 | ***** | 19 | 5.57 |
| 27 | ***** | 67 | 19.65 |
| 30 | ***** | 111 | 32.55 |
| 33 | ***** | 72 | 21.11 |
| 36 | ***** | 38 | 11.14 |
| 39 | ***** | 21 | 6.16 |
| 42 | *** | 7 | 2.05 |
| 45 | | 0 | 0.00 |
| 48 | | 0 | 0.00 |

Fig. 3 (cont'd.).

SAGITTA ELEGANS LENGTH FREQUENCY S8249.58

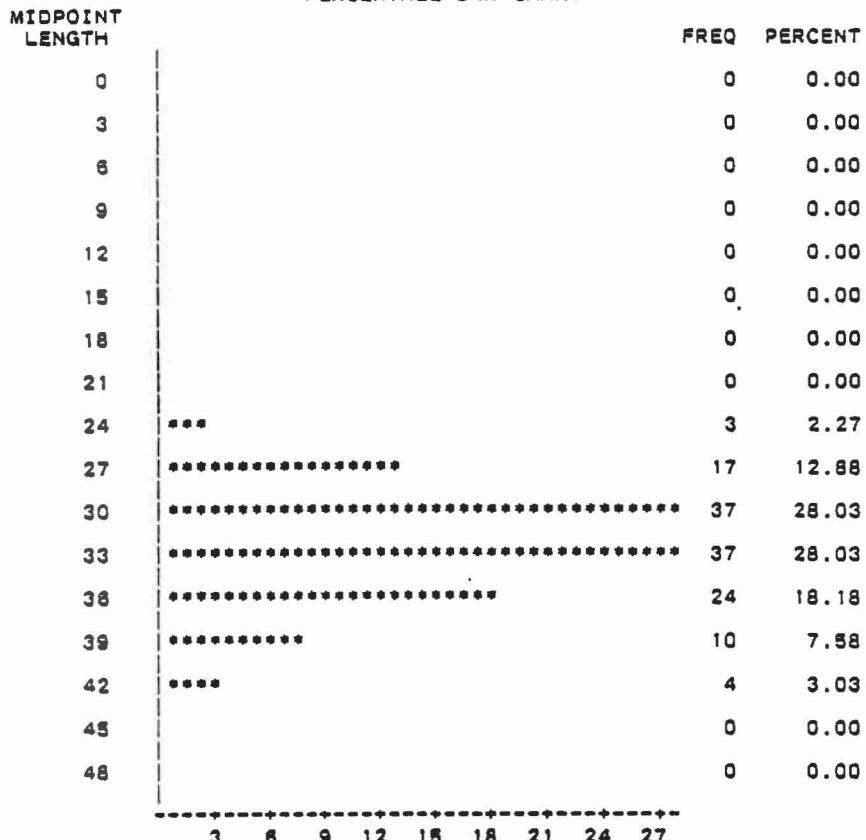
PERCENTAGE BAR CHART

103



SAGITTA ELEGANS LENGTH FREQUENCY S8259.64

PERCENTAGE BAR CHART



SAGITTA ELEGANS LENGTH FREQUENCY S8301.06

104

MIDPOINT
LENGTH

PERCENTAGE BAR CHART

FREQ PERCENT

| | | |
|----|----|-------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | 0 | 0.00 |
| 15 | 1 | 0.26 |
| 18 | 2 | 0.51 |
| 21 | 21 | 5.38 |
| 24 | 59 | 15.13 |
| 27 | 94 | 24.10 |
| 30 | 73 | 18.72 |
| 33 | 63 | 16.15 |
| 36 | 48 | 12.31 |
| 39 | 23 | 5.90 |
| 42 | 5 | 1.28 |
| 45 | 1 | 0.26 |
| 48 | 0 | 0.00 |

3 6 9 12 15 18 21 24

PERCENTAGE

SAGITTA ELEGANS LENGTH FREQUENCY S8307.11

MIDPOINT
LENGTH

PERCENTAGE BAR CHART

FREQ PERCENT

| | | |
|----|-----|-------|
| 0 | 0 | 0.00 |
| 3 | 0 | 0.00 |
| 6 | 0 | 0.00 |
| 9 | 0 | 0.00 |
| 12 | 0 | 0.00 |
| 15 | 0 | 0.00 |
| 18 | 0 | 0.00 |
| 21 | 11 | 2.81 |
| 24 | 56 | 14.29 |
| 27 | 112 | 28.57 |
| 30 | 103 | 26.28 |
| 33 | 55 | 14.03 |
| 36 | 38 | 9.69 |
| 39 | 14 | 3.57 |
| 42 | 3 | 0.77 |
| 45 | 0 | 0.00 |
| 48 | 0 | 0.00 |

3 6 9 12 15 18 21 24 27

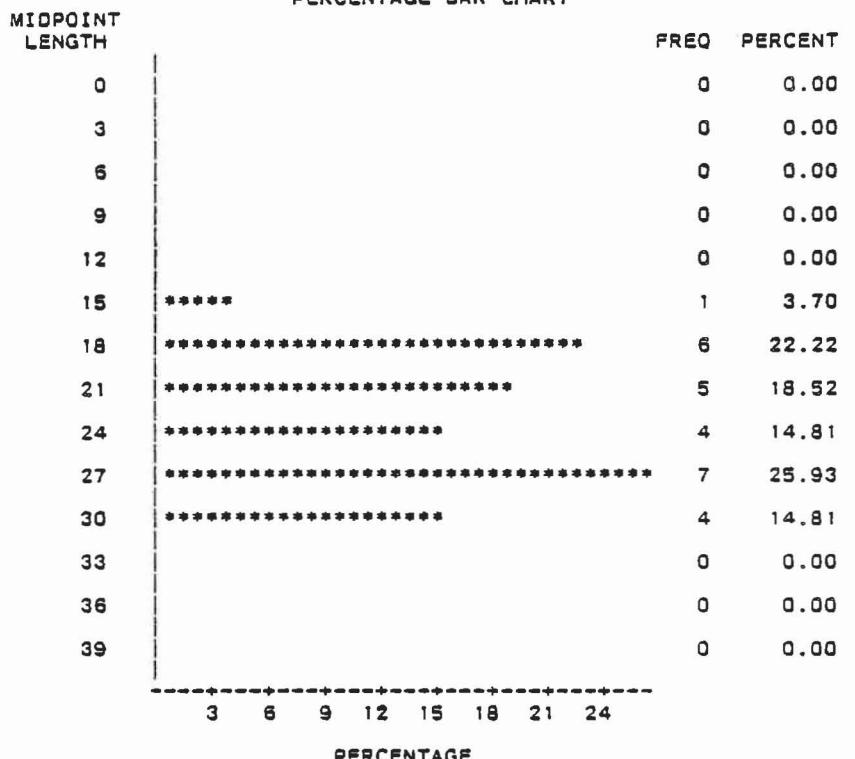
PERCENTAGE

Fig. 3 (cont'd.).

Figure 4. Length frequency histograms for Thysanoessa Inermis collected during the 1978 to 1982 open water seasons at various stations in Frobisher Bay. The code number in each chart title indicates the species (T), the year of collection (e.g. 78) and the numbers of the collections from which length data were combined in preparing the histogram (e.g. T7807.12 indicates that length measurements for Thysanoessa from the 1978 collections numbered 07 to 12 inclusive were pooled). The date of collection and the station number can be obtained by referring to the collection numbers listed in Table 1. The histograms are presented in chronological order.

THYSANODESSA INERMIS LENGTH FREQUENCY T7807.12

PERCENTAGE BAR CHART



THYSANODESSA INERMIS LENGTH FREQUENCY T7813.18

PERCENTAGE BAR CHART

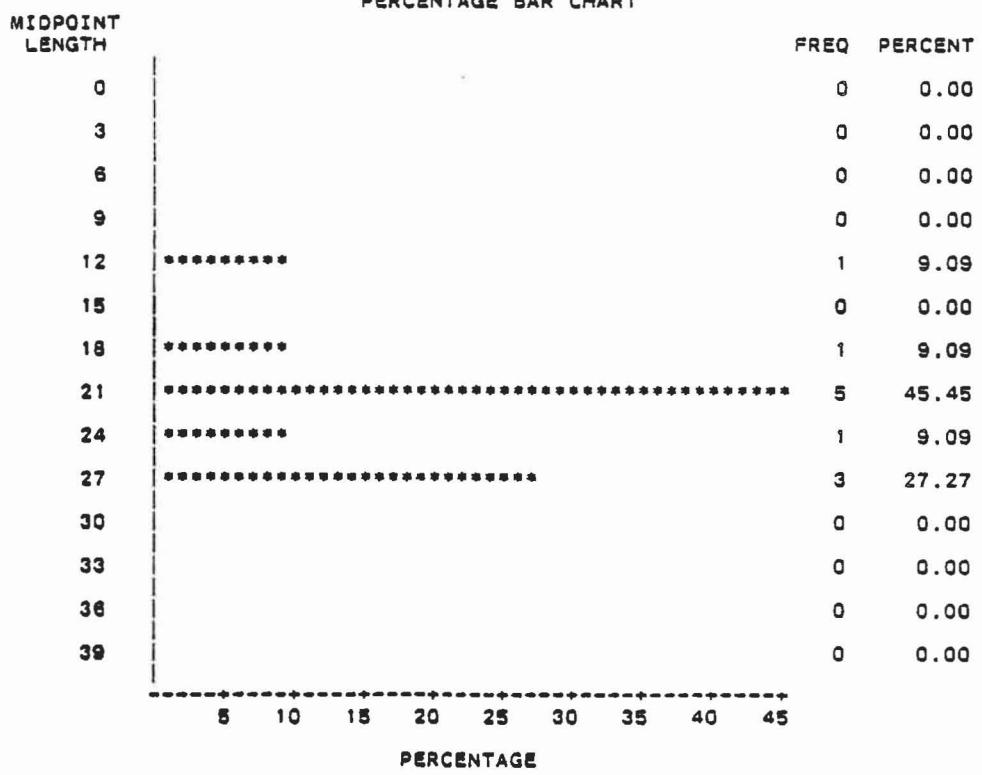
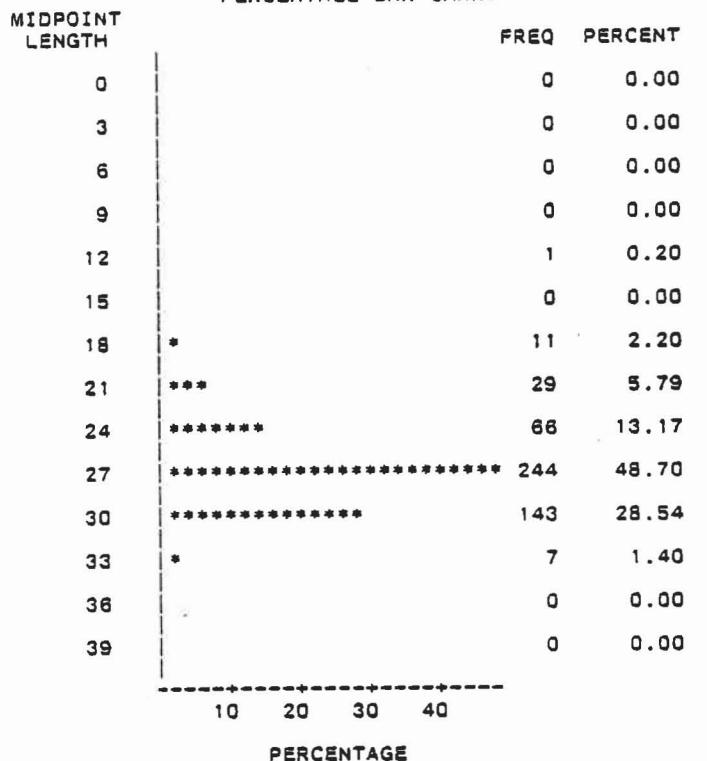


Fig. 4

PERCENTAGE BAR CHART



PERCENTAGE BAR CHART

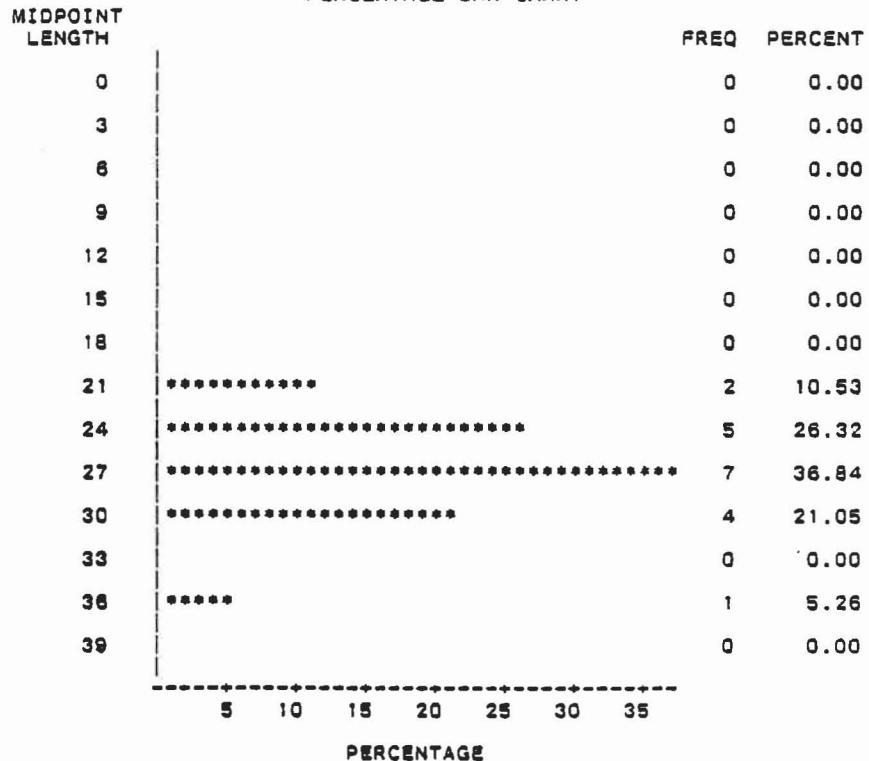
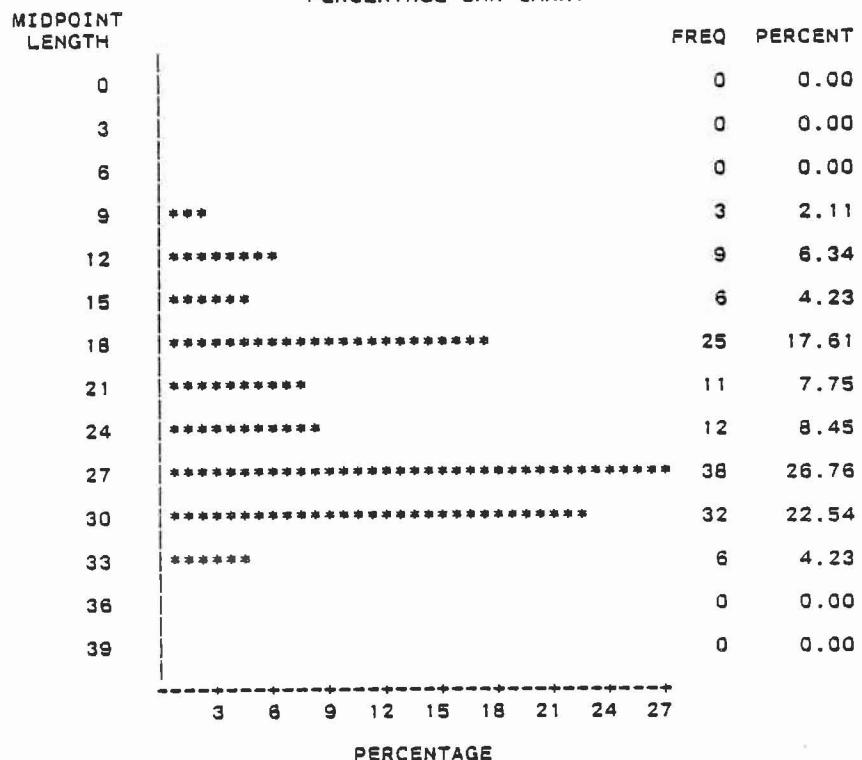


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T7908.16

PERCENTAGE BAR CHART



THYSANOESSA INERMIS LENGTH FREQUENCY T7917.25

PERCENTAGE BAR CHART

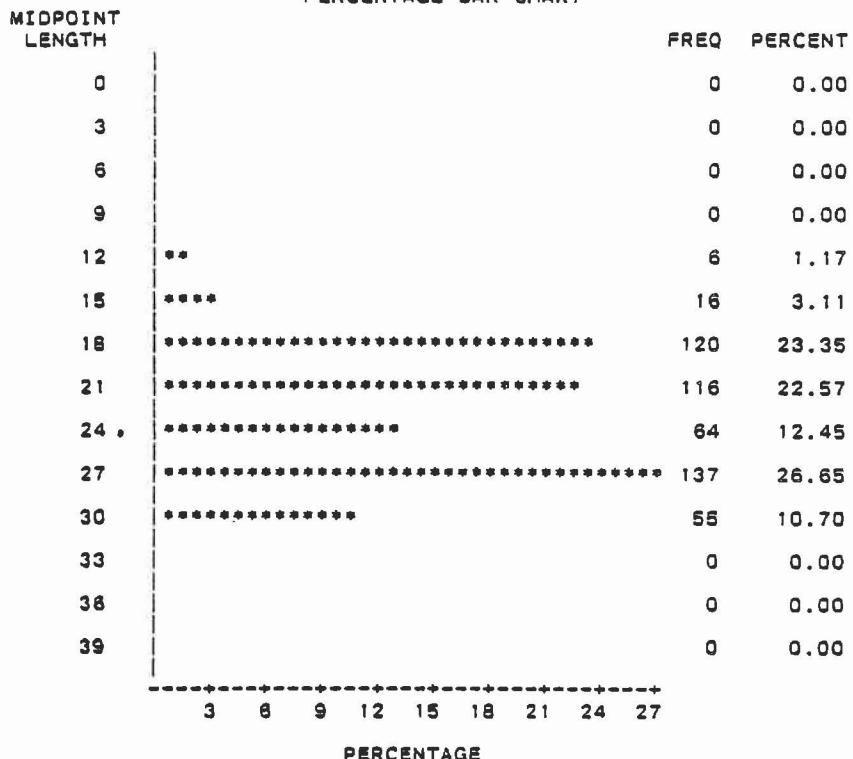
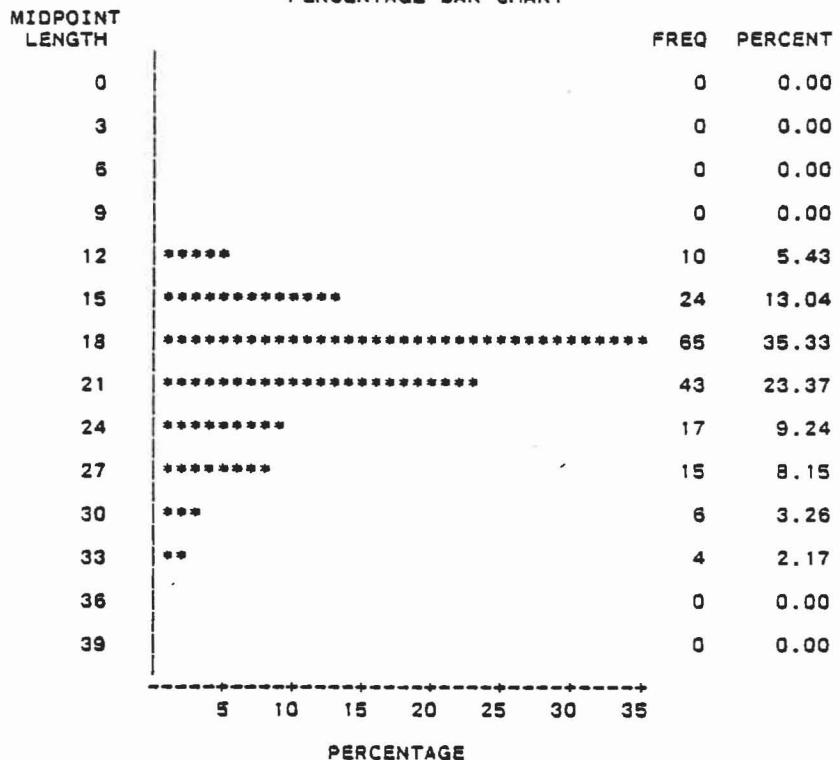


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T7926.32

PERCENTAGE BAR CHART



THYSANOESSA INERMIS LENGTH FREQUENCY T7938.44

PERCENTAGE BAR CHART

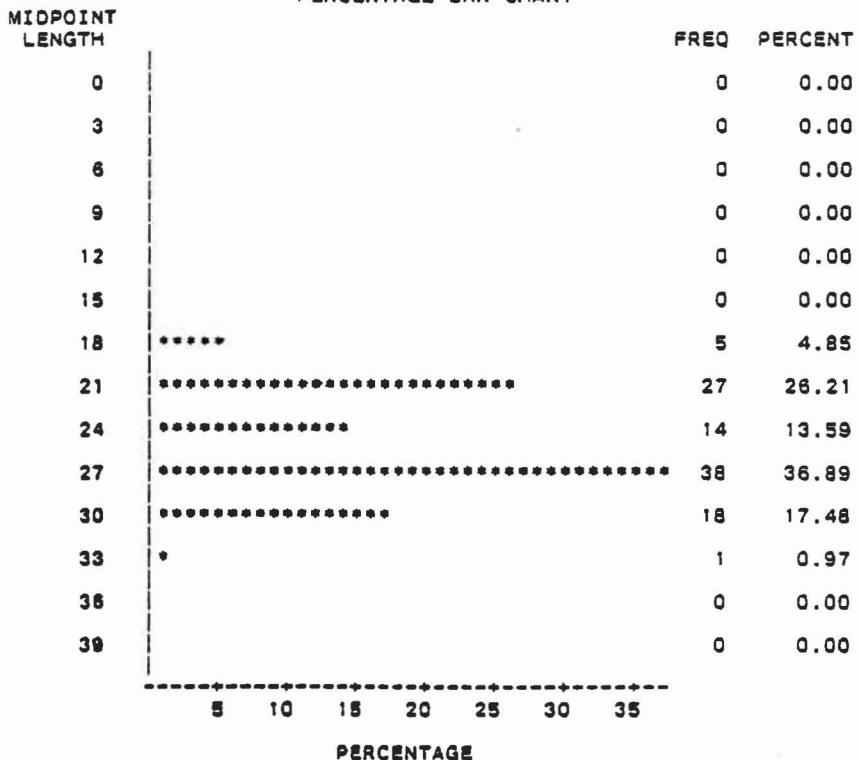
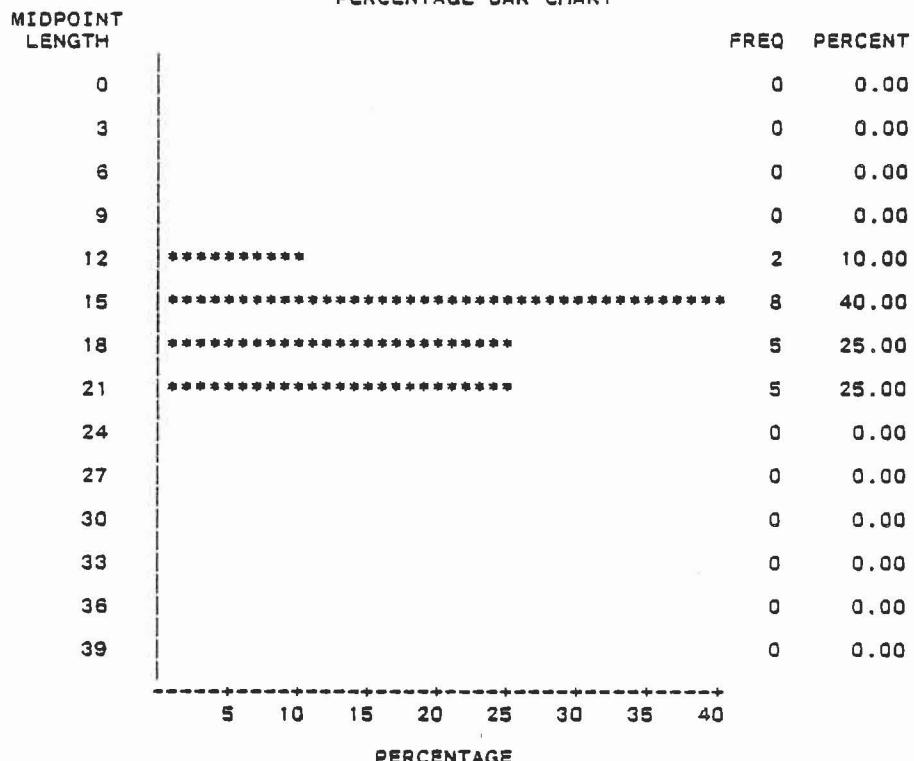


Fig. 4 (cont'd.)

THYSANOLESSA INERMIS LENGTH FREQUENCY T8001.06

PERCENTAGE BAR CHART



THYSANOLESSA INERMIS LENGTH FREQUENCY T8013.20

PERCENTAGE BAR CHART

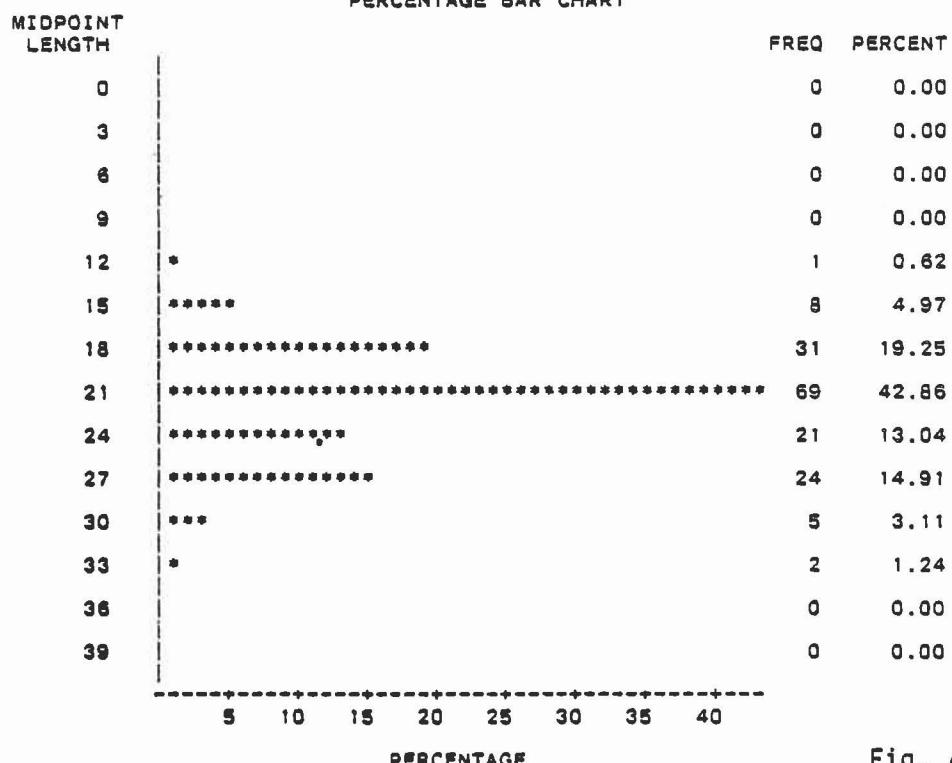
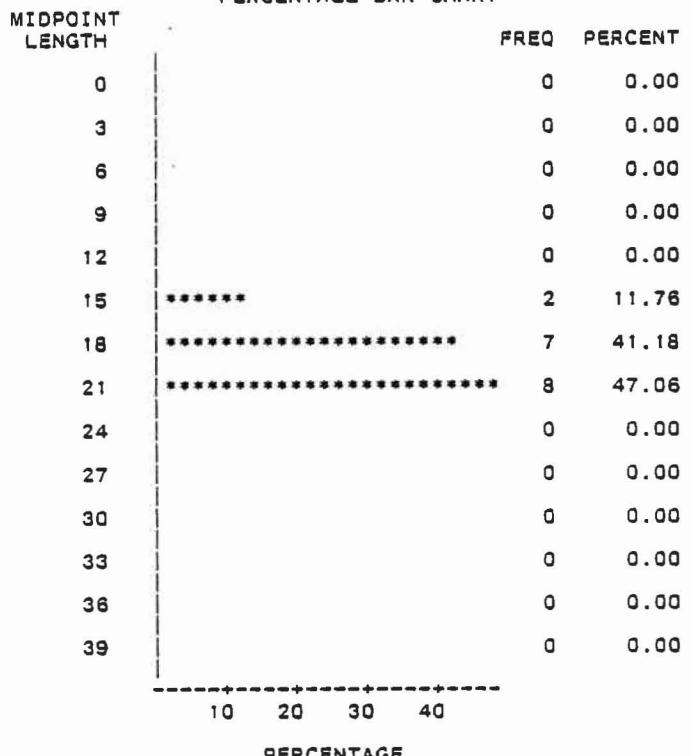


Fig. 4 (cont'd.)

THYSANOLESSA INERMIS LENGTH FREQUENCY T8021.27

PERCENTAGE BAR CHART



THYSANOLESSA INERMIS LENGTH FREQUENCY T8028.33

PERCENTAGE BAR CHART

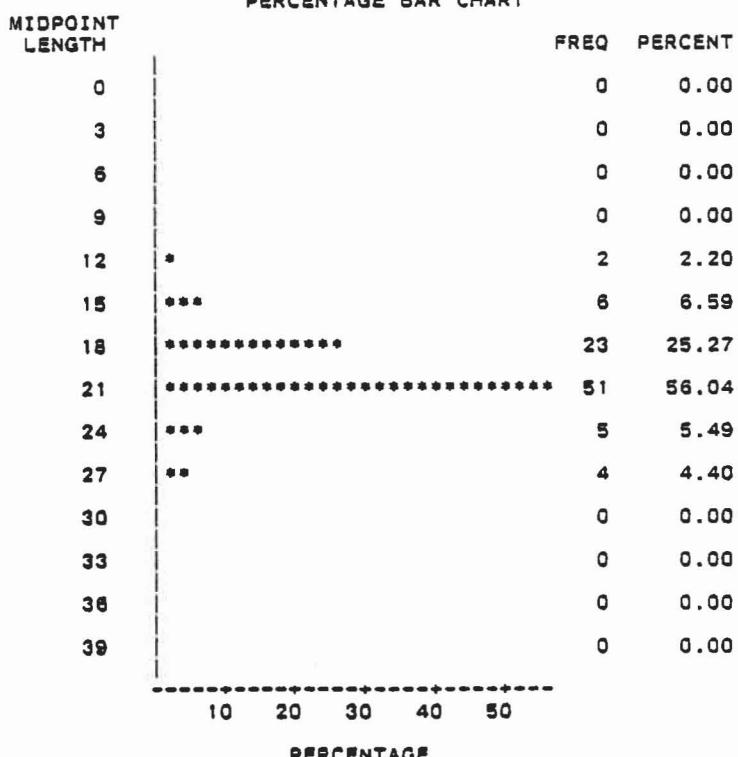
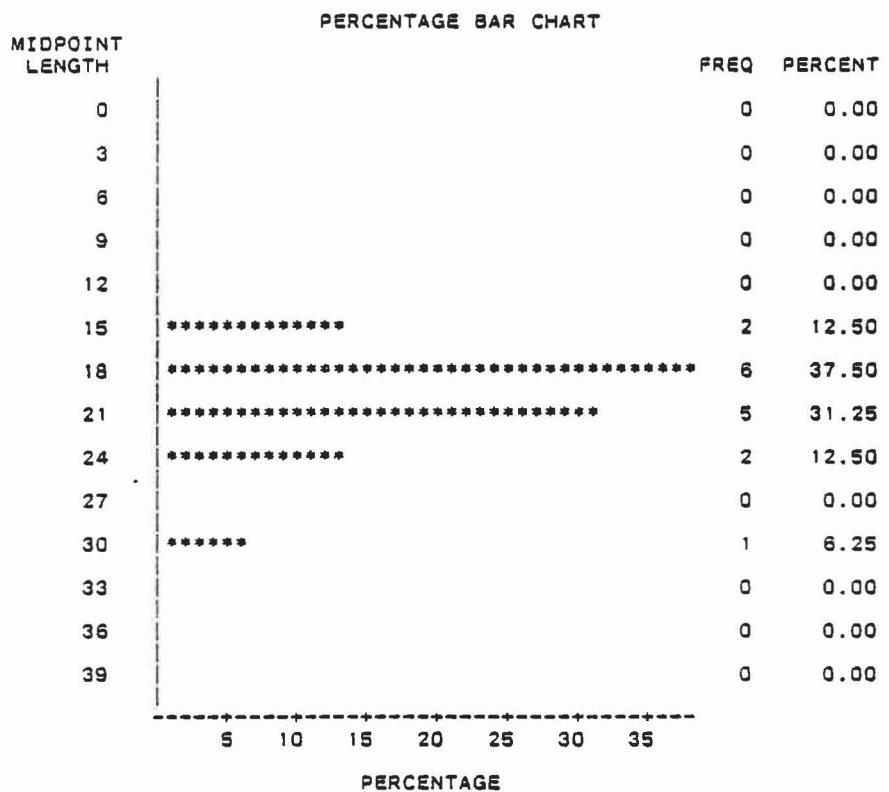


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T8041.45



THYSANOESSA INERMIS LENGTH FREQUENCY T8107.15

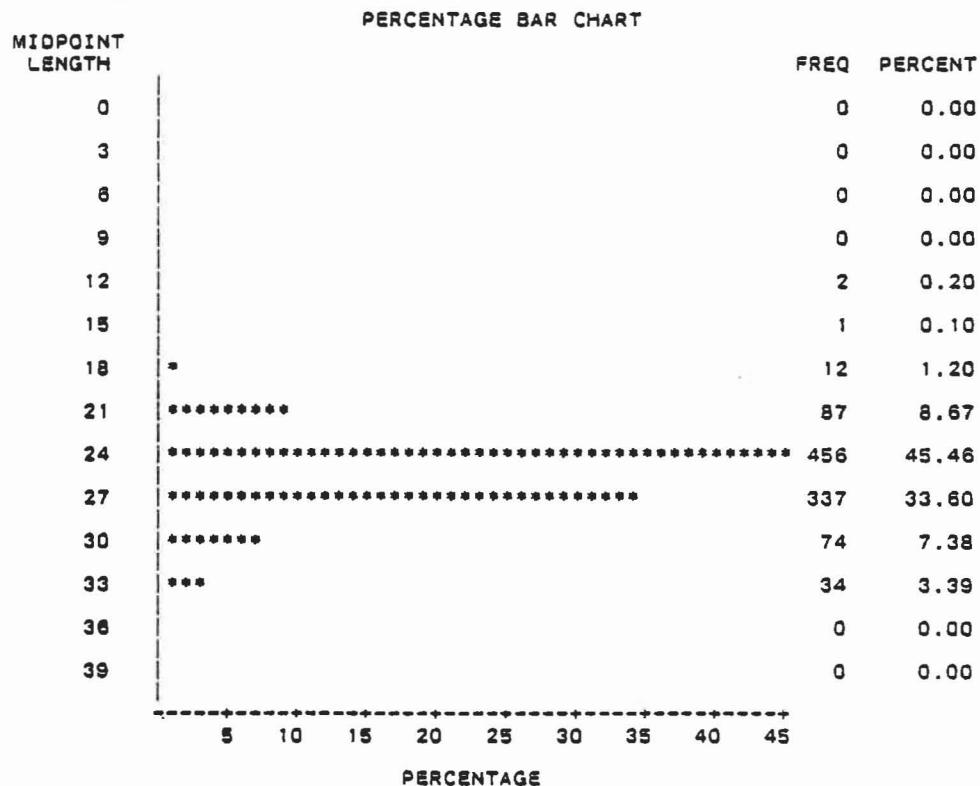
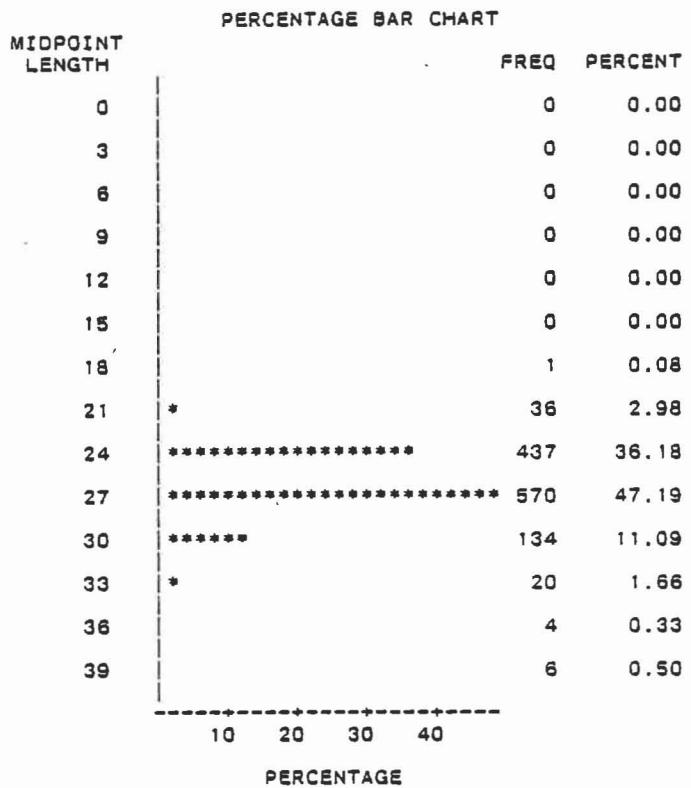


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T8129.37



THYSANOESSA INERMIS LENGTH FREQUENCY T8151.59

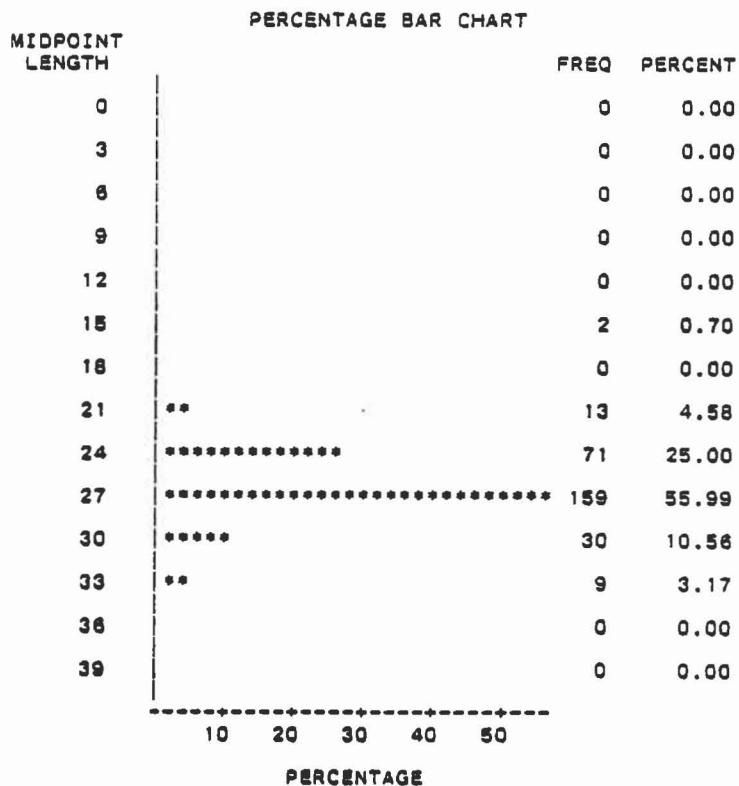
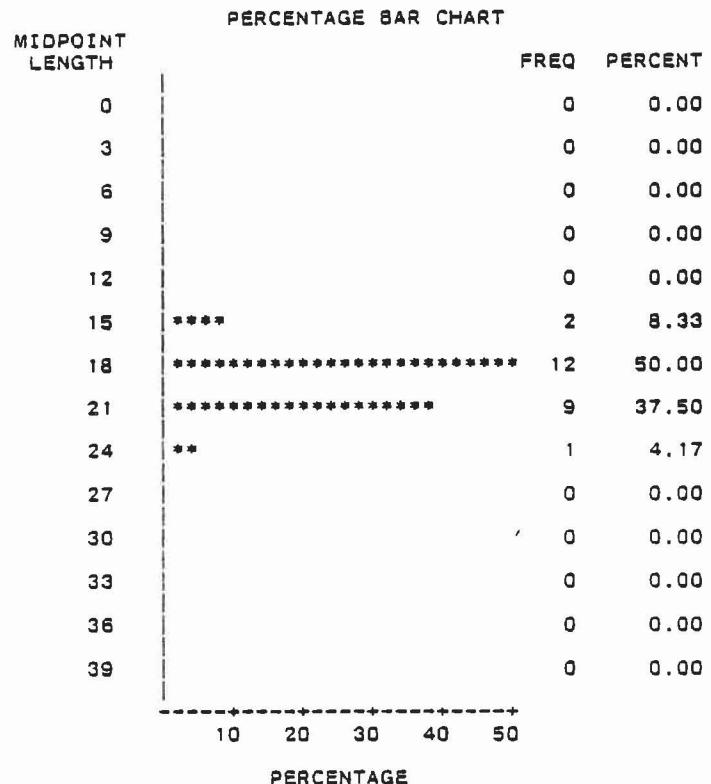


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T8201.08



THYSANOESSA INERMIS LENGTH FREQUENCY T8209.17

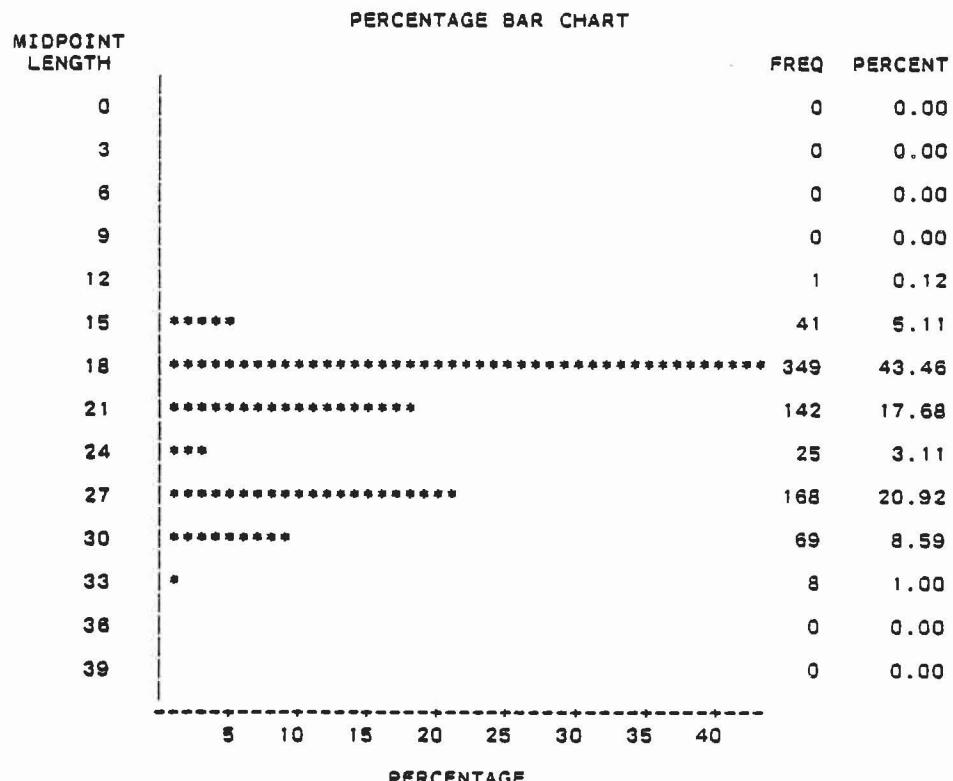
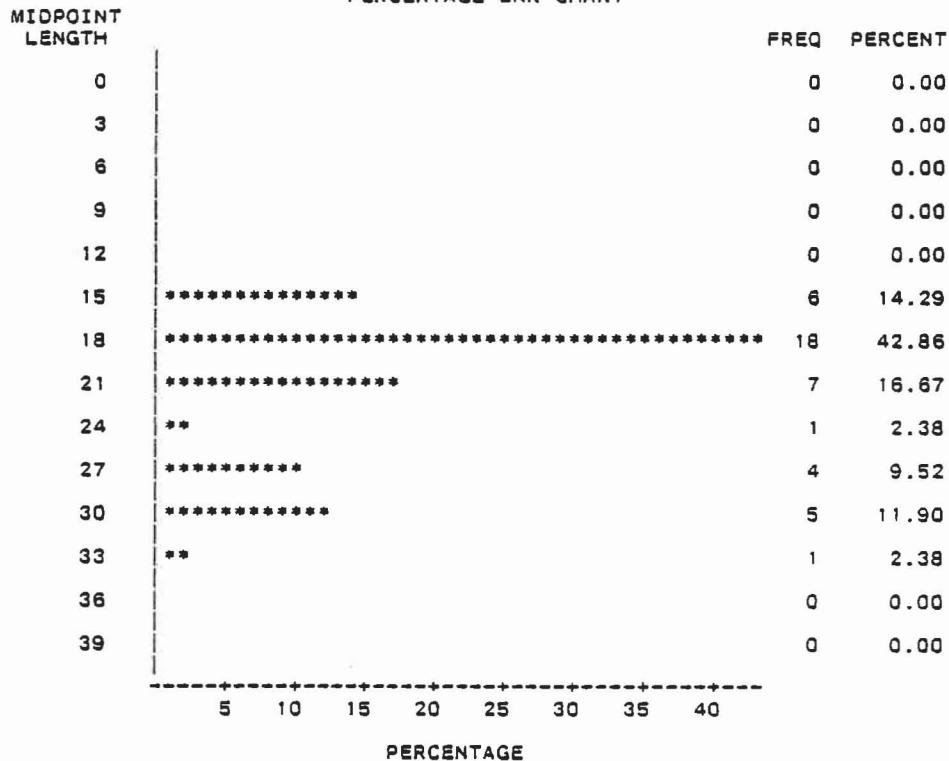


Fig. 4 (cont'd.)

THYSANOESSA INERMIS LENGTH FREQUENCY T8218.25

PERCENTAGE BAR CHART



THYSANOESSA INERMIS LENGTH FREQUENCY T8240.48

PERCENTAGE BAR CHART

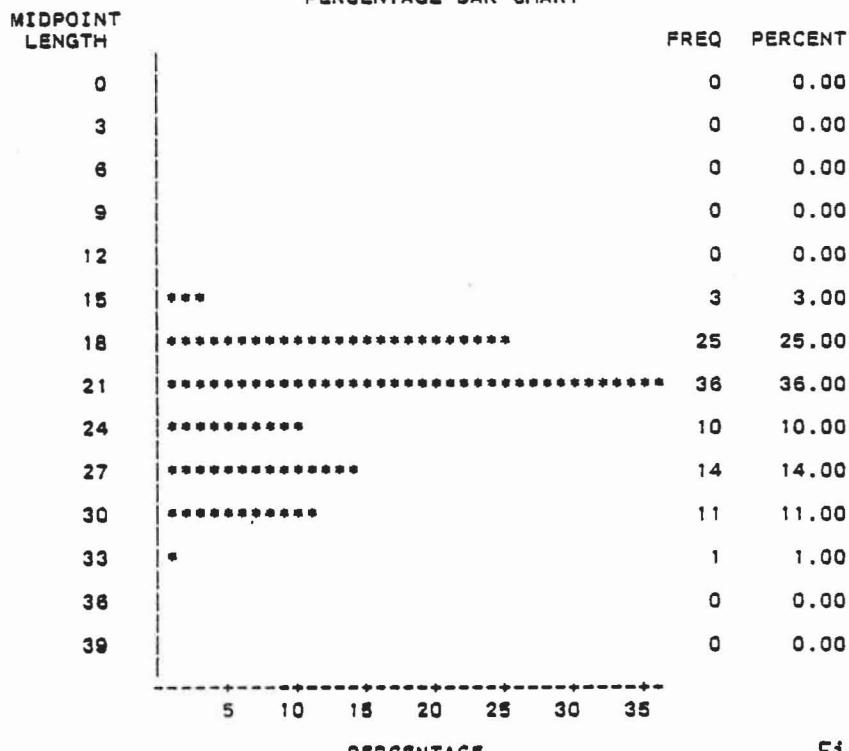


Fig. 4 (cont'd.)

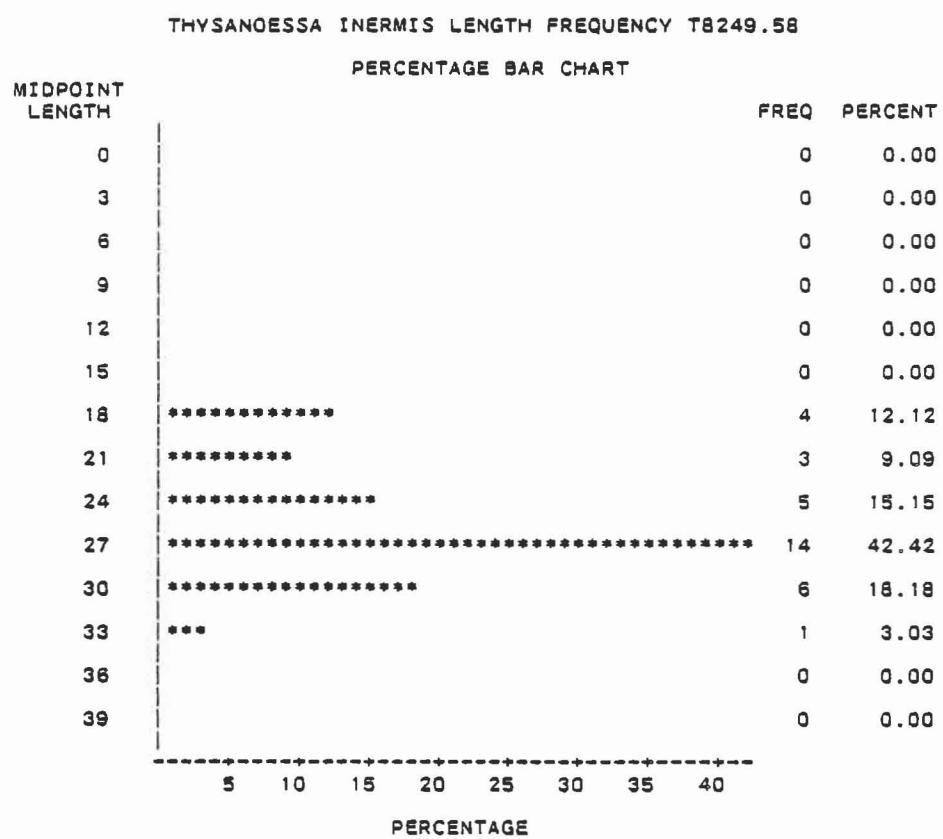


Fig. 4 (cont'd.)

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