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Distributional Records of Marine Amphipoda of
Eastern Canada

Author

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DISTRIBUTIONAL RECORDS OF MARINE AMPHIPODA OF EASTERN CANADA

by

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Introduction

From a taxonomical standpoint, the marine invertebrate fauna of eastern Canadian waters has been relatively little studied in recent years. Although the region presents a very long and much-indented coast line, affording many types of ecological habitats, only a few specialists have been attracted to its varied and most interesting invertebrate fauna. The basic reference work on this subject is yet J. P. Whiteaves' "Catalogue of the Marine Invertebrates of Eastern Canada", 1901, and various papers on specific invertebrate groups published since that time in "Contributions of Canadian Biology and Fisheries".

The Belle Isle Strait expedition of 1923, carried out under the direction of Dr. A. G. Huntsman, Biologist to the Biological Board of Canada, was designed to extend this knowledge. Several groups of marine invertebrates so collected have since been published upon, notably the marine Copepoda (Pinhey, 1926, 1927), and the Pteropoda (Kerwill, 1940). At the present time, a paper by the author entitled "Pelagic Amphipoda of the Belle Isle Strait Region" is being published in the Journal of the Fisheries Research Board of Canada. In it, the significance of the distributional records listed herein is discussed in de-

tail. Special attention has been focussed upon the hyperiid Amphipoda and the relationship of these free-swimming organisms to the dominant ocean currents of the region.

The records of Amphipoda given herewith were obtained from the plankton tow material, using no. 0 (bolting cloth) net, from certain of the stations of the ships "Arlwux" and "Prince" ^{Arlwux} employed on the expedition. In the tables, the Amphipoda are listed for surface, 25 metre, and vertical tows (when taken) for each station. The time given is that of the beginning of the 15-minute haul. Duration of vertical hauls would depend UPON THE DEPTH. COUNTS REPRESENT ALL OF THAT SPECIES CAPTURED in the tow unless otherwise noted. Records of Amphipoda from tows taken at stations in the southern part of the gulf of St. Lawrence and south coast of Newfoundland await further study, and have not been published.

PELAGIC AMPHIPODA OF BELLE ISLE STRAIT

By E. L. Bousfield

Tow results for each Station

Table 1

| Amphipod | Horiz. surf. tow | 23-27 metre tow | Vertical tow |
|----------------------------|------------------|------------------|----------------------|
| | Size range (mm.) | Size range (mm.) | Size range (mm.) |
| Amphipod | | | |
| Stn. 427, July 30 | 1.12 p.m. | 1.12 p.m. | 12.50 p.m. (180-0m.) |
| <i>T. compressa</i> | 3-3.5 | | |
| <i>Themis</i> to young | 3-5 | 2.5-3.5 | 3.5 |
| <i>T. abyssorum</i> | 1.5-3.5 | 1.5-7 | 1.5-13 |
| Gammaridea | 10.5 | | 107 |
| Stn. 428, July 31 | 9.07 a.m. | 9.07 a.m. | 8.51 a.m. (65-0m.) |
| <i>T. compressa</i> | 4-5 | 4.5 | 5.5 |
| <i>Themis</i> to young | | 1.5-4 | |
| <i>Themis</i> to intermed. | | | 5-6 |
| <i>Themisto</i> sp. | 3rd per. | | |
| <i>T. abyssorum</i> | only 4.5 | | 3.5-6.5 |
| Stn. 429, July 31 | 11.45 a.m. | 11.45 a.m. | 11.00 a.m. (75-0 M.) |
| <i>T. compressa</i> | | 4.5-5.5 | 4.5-6 |
| <i>Themis</i> to young | | 2-4.5 | |
| <i>T. bispinosa</i> | 5 | | |
| <i>T. abyssorum</i> | 2-6 | 1-5 | 2.5-5.5 |
| Stn. 430, July 31 | 2.15 p.m. | 2.15 p.m. | 2.00 p.m. (100-0 m.) |
| <i>T. compressa</i> | 5-9 | | 4.5-5 |
| <i>Themis</i> to young | 3.0 | 1.5-3 | 1.5-4.5 |
| <i>Themis</i> to sp. | | 3.5 | |
| <i>T. libellula</i> | 11, 15 | | 11, 15 |
| <i>T. abyssorum</i> | | 1.5-4 | 2-6 |
| <i>Pseudalibrotus</i> | | 5 | 12 |

Table 1 (cont'd)

| Amphipod | Horiz. surf. tow | | 23-27 metre tow | | Vertical tow | |
|------------------------|------------------|-----|------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 431, July 31 | 4.32 p.m. | | 4.32 p.m. | | | |
| <i>T. compressa</i> | 4 | 1 | 5 - 7 | 3 | | |
| <i>Themis</i> to young | | | 2 - 4 | 2 | | |
| <i>T. libellula</i> | 8, 14 | 2 | | | | |
| <i>T. abyssorum</i> | | | 4 | 1 | | |
| <i>Pseudalibrotus</i> | | | 12 | 1 | | |
| Stn. 432, Aug 2 | 10.00 a.m. | | 10.00 a.m. | | 9.47 a.m. (40-0 m.) | |
| <i>T. compressa</i> | 4.5 - 6 | 6 | 4.5 - 5 | 7 | | |
| <i>Themis</i> to young | 1.5 - 4.5 | 8 | 1.5 - 4.5 | 22 | 2.5 - 4 | 2 |
| <i>T. abyssorum</i> | | | 2 - 8 | 9 | | |
| <i>Pseudalibrotus</i> | | | 4 - 5 | 2 | | |

Table 2

| | | | | | | |
|---------------------------|------------|---|------------|----|----------------------|----|
| Stn. 408, Aug. 7 | 8.57 a.m. | | | | | |
| <i>T. compressa</i> | 4.5 - 5 | 3 | | | | |
| <i>Themis</i> to young | 2 - 4 | 5 | | | | |
| Stn. 409, Aug 7 | 9.47 a.m. | | 9.47 a.m. | | 9.47 a.m. (45-0 m.) | |
| <i>T. compressa</i> | 5 - 8.5 | 2 | 5 - 11 | 33 | 4.5 - 10.5 | 10 |
| <i>Themis</i> to young | | | 2 - 4.5 | 21 | 2 - 4 | 2 |
| <i>Themis</i> to intermed | 10 | 1 | | | 9 | 1 |
| <i>T. abyssorum</i> | | | 4 | 1 | | |
| Stn. 410, Aug 7 | 11.07 a.m. | | 11.07 a.m. | | 1051 a.m. (90-0m.) | |
| <i>T. compressa</i> | | | | 20 | 5 - 10 | 14 |
| <i>Themis</i> to young | | | | 15 | 2.5 - 4.5 | 6 |
| <i>T. libellula</i> | 12 | 1 | | | 12 - 20 | 25 |
| <i>T. abyssorum</i> | | | | | 5 | 1 |
| Stn. 411, Aug. 7 | 12.51 p.m. | | 12.51 p.m. | | 12.37 p.m. (55-0 m.) | |
| <i>T. compressa</i> | 5 | 2 | 5 - 7.5 | 4 | | |
| <i>Themis</i> to young | 2 - 4 | 5 | 1.5 - 4.5 | 6 | 2-3 | 2 |
| <i>T. libellula</i> | 7 | 1 | | | | |
| <i>T. abyssorum</i> | | | | | 3 | 1 |
| <i>Pseudalibrotus</i> | | | 6.5 | 1 | | |

Table 2 (cont'd)

| Amphipod | 'Horiz. surf. tow | | 23-27 metre tow | | Vertical tow | |
|------------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 412, Aug. 7 | 2.39 p.m. | | 2.39 p.m. | | 2.25 p.m. (90-0 m.) | |
| <i>T. compressa</i> | 4 | 2 | | | 4.5 - 5 | 2 |
| <i>Themis</i> to young | 2.4 - 4 | 6 | 1.5 - 3 | 8 | | |
| <i>T. libellula</i> | | | | | 13 - 17 | 3 |
| <i>T. abyssorum</i> | 3.5 - 8 | 3 | | | 3 | 1 |
| <i>Pseudalibrotus</i> | 11 | 1 | | | 5 + 14 | 7 |

Table 3

| | 'Horiz. surf. tow | | 20-30 metre tow | | Vertical tow | |
|---------------------------|---------------------|-----|---------------------|-----|-----------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Sta. 12, Aug. 11 | | | 4.15 p.m. | | 4.00 p.m. (150-0 m.) | |
| <i>T. compressa</i> | | | 6 - 8.5 | 6 | 4 - 6 | 3 |
| <i>Themis</i> to young | | | 1.5 - 3.5 | 16 | | |
| <i>Themis</i> to intermed | | | 4.5, 6.5 | 2 | | |
| <i>T. abyssorum</i> | | | 1.5 - 8 | 34 | 3 - 7 | 30 |
| Sta. 13, Aug. 11 | 8.05 p.m. | | 8.05 p.m. | | (280-0 m.) | |
| <i>T. compressa</i> | 5 - 9 | 60 | 5, 12 | 8 | 5, 6.5 | 2 |
| <i>Themis</i> to young | 1.5 - 4.5 | 14 | 3 - 4.5 | 8 | | |
| <i>Themis</i> to intermed | | | | | 13 | 1 |
| <i>T. bispinosa</i> | 9 | 1 | 7 - 9 | 5 | | |
| <i>T. abyssorum</i> | 2 - 7 | 267 | 2 - 10 | 159 | 3 - 12 | 24 |
| <i>Hyperoche</i> | 8.5 | 1 | | | | |
| <i>Pseudalibrotus</i> | 3.5 | 2 | | | | |
| <i>Calliopius</i> | 3.5 - 12 | 13 | | | | |
| Sta. 14, Aug. 11 | 11.40 p.m. | | 11.40 p.m. | | 11.30 p.m. (150-0 m.) | |
| <i>T. compressa</i> | 6 - 8 | 3 | 6 - 9 | 3 | 4, 6.5 | 2 |
| <i>Themis</i> to young | 2.5 | 2 | | | | |
| <i>T. libellula</i> | 7 | 1 | | 8 | | |
| <i>T. abyssorum</i> | 1.5 - 7 | 140 | 2 - 6 | 7 | 3.5 - 12.5 | 21 |
| <i>Hyperoche</i> | 10.5, 12 | 2 | | | | |
| <i>Gammaridea</i> | | | | | 5 | 1 |
| Sta. 15, Aug. 12 | 5.00 a.m. | | 5.00 a.m. | | 4.55 a.m. (100-0 m.) | |
| <i>T. compressa</i> | 5 - 9 | 3 | 7.5 | 2 | | |
| <i>Themis</i> to young | 3.5 | 1 | 3 | 1 | | |
| <i>T. libellula</i> | 6 - 8 | 5 | | | | |
| <i>T. abyssorum</i> | 4 | 1 | 2.5 - 6 | 6 | 4.5 - 5 | 2 |

Table 4

| Amphipod | Horiz. surf. tow | | 20-30 metre tow | | Vertical tow | |
|--|---------------------|-----|---------------------|-----|----------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 16, Aug. 12 | 8.15 a.m. | | 8.15 a.m. (30 min) | | | |
| <i>T. compressa</i> | 4.5 - 8 | 25 | 4.5 - 8 | 25 | | |
| <i>Themis</i> to young | | | 1.5 - 4.5 | 8 | | |
| <i>T. abyssorum</i> | | | 1.5 - 3 | 6 | | |
| Hyperoche | | | 2.5 - 11 | 4 | | |
| <i>Pseudalibrotus</i> | | | 5 | 4 | | |
| Stn. 17, Aug. 12 | 1.40 p.m. | | 1.40 p.m. | | 1.25 p.m. (260-0m.) | |
| <i>T. compressa</i> | | | 4 - 6 | 10 | | |
| <i>Themis</i> to young | | | 1.5 - 4 | 25 | | |
| <i>T. libellula</i> | 5 | 1 | | | | |
| <i>T. abyssorum</i> | | | 2 - 6 | 19 | 4.5 - 13 | 20 |
| Hyperoche | | | 10 | 2 | | |
| <i>Hyperia galba</i> | | | 2.5 | 1 | | |
| <i>Pseudalibrotus</i> | 6 | 1 | 6 | 1 | | |
| <i>Calliopius</i> | 10 | 1 | | | | |
| Stn. 18, Aug. 12 | 5.40 p.m. | | 5.40 p.m. | | 5.30 p.m. (150-0 m.) | |
| <i>T. compressa</i> | 7 - 10 | 3 | 4.5 - 14 | 17 | 7 - 11.5 | 4 |
| <i>T. bispinosa</i> | | | 6.5 - 12 | 11 | 8.5 | 1 |
| <i>Themis</i> to intermedi | | | | | 11 | 1 |
| <i>Themis</i> to sp. | heads only | 2 | | | | |
| <i>T. abyssorum</i> | | | 4 - 10 | 133 | 5 - 9 | 66 |
| Stn. 19, Aug. 12 | 9.00 p.m. | | 9.00 p.m. | | 8.15 p.m. (60-0 m.) | |
| <i>T. compressa</i> | 4.5 - 7.5 | 17 | 5 - 9 | 76 | 7.5, 9 | 2 |
| <i>Themis</i> to young | 2 - 4.5 | 10 | 2 - 4.5 | 22 | | |
| <i>T. bispinosa</i> | | | 8.5 | 1 | | |
| <i>T. abyssorum</i> | 3 - 6.5 | 27 | 2.5 - 7.5 | 277 | 4 - .7 | 27 |
| <i>Rhachotropis</i> | | | | | | |
| <i>aculeata</i> | | | | | 8, 27 | 2 |
| <i>Rhachotropis</i> sp. | | | 10 | 13 | | |
| N. B. 1/2 Hyperiid counted for 20-30- m. tow | | | | | | |

Table 5

| Stn. 20, Aug 14. | 5.45 p.m. (15-20 m.) | | | | | |
|------------------------|----------------------|--|------------|-----|--|--|
| <i>T. compressa</i> | | | 4.5 - 14 | 33 | | |
| <i>T. bispinosa</i> | | | 7.5 - 10.5 | 12 | | |
| <i>Themis</i> to young | | | 6.5 - 9 | 5 | | |
| <i>T. abyssorum</i> | | | 4 - 7 | 757 | | |

Table 5 cont'd

| A Amphipod | Horiz. surf. tow | 20-30 metre tow | Vertical tow | No. |
|------------------|---------------------|---------------------|-----------------------------|-----|
| | Size range (mm.) | Size range (mm.) | Size range (tow) | |
| Stn. 22, Aug. 15 | | 6.00 p.m. | (15m. tow susp. in current) | |
| Hyperoche | | 3 | 1 | |

Table 6

| Stn. 23, Aug. 15 | 10.50 p.m. | 10.50 p.m. | | | | |
|--|------------|------------|---------------------|-----|-----------|-----|
| T. compressa | 4.5 - 12 | 20 | 4.5 - 13 | 266 | | |
| Themis to young | 1.5 - 4 | 17 | 2 - 4.5 | 47 | | |
| T. bispinosa | 6.5 - 9 | 3 | 7.5 - 9.5 | 3 | | |
| Themis to inter- Med. | | | 6 - 10 | 10 | | |
| T. libellula | 8 | 1 | 9 - 20 | 16 | | |
| T. abyssorum | 4 - 7 | 107 | 3.5 - 11 | 204 | | |
| Hyperoche | 2 | 1 | 4.5, 9 | 2 | | |
| Pseudalbrotus | | | 5 | 1 | | |
| Calliopius | 4 | 1 | | | | |
| Gammarus sp. | | | head only | 1 | | |
| Stn. 24, Aug. 16 | 3.30 a.m. | 3.30 a.m. | 3.00 a.m. (90-0 m.) | | | |
| T. compressa | 4 - 8.5 | 18 | 4.5 - 13 | 46 | 7.5 - 12 | 8 |
| Themis to young | 2 - 3.5 | 3 | 3.5 | | | |
| T. bispinosa | | | 5.5 - 9 | 5 | 5.5, 8.5 | 2 |
| Themis to inter- med. | 6 | 1 | 5 - 8.5 | 11 | | |
| T. libellula | | | 12 | 1 | | |
| T. abyssorum | 2 - 7.5 | 502 | 4 - 9 | 441 | 4 - 9 | 348 |
| Calliopius | 8.5, 11 | 2 | | | | |
| Halimedon mege alops | | | | | 8 | 1 |
| Rhachotropis sp. | | | | | 13 | 1 |
| N. B. 1/2 Amphipods counted for 20-30 m. tow | | | | | | |
| Stn. 25, Aug. 16 | 6.00 a.m. | 6.00 a.m. | 5.50 a.m. (70-0 m.) | | | |
| T. compressa | 4 - 8.5 | 25 | 5.5 - 9.5 | 57 | 11.5 | 1 |
| T. bispinosa | 6 - 9 | 4 | 6 - 10 | 9 | | |
| Themis to inter- med. | 6.5 - 7.5 | 2 | 5 - 7 | 8 | 7 | 1 |
| T. abyssorum | 3.5 - 7 | 63 | 4 - 8 | 362 | 4.5 - 7.5 | 30 |
| Hyperoche | | | 7 | 1 | | |
| Calliopius | 4, 5 | 2 | | | | |

Table 6 (cont'd)

| Amphipod | 'Horiz. surf tow | | '20-30 metre tow | | 'Vertical tow | |
|-------------------------|---------------------|-----|---------------------|-----|----------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 26, Aug. 16 | 8.15 a.m. | | 8.15 a.m. | | 8.00 a.m. (80-0 m.) | |
| T. compressa | | | 4.5 - 9 | 12 | 6 - 10 | 3 |
| Themis to young | | | 1 - 3 | 8 | | |
| T. bispinosa | 8 | 1 | 7 - 8.5 | 3 | | |
| Themis to inter- med | 6 | 1 | 8.5 - 9.5 | | 6 | 2 |
| T. abyssorum | 4 - 6 | 1 | 5 - 7 | 630 | 4 - 7 | 24 |
| Calliopius | 6 - 7 | 5 | | | | |
| Stn. 28 Aug. 16 | 10.30 a.m. | | 10.30 a.m. | | 10.15 a.m. (70-0 m.) | |
| T. compressa | 6 - 8 | 8 | 4.5m - 6.5 | 5 | 5, 6.5 | 2 |
| Themis to young | | | | | 3 | 1 |
| Themis to intermed | 8 | 1 | 5, 7 | 2 | | |
| Themis to sp. | damaged spec. | 1 | | | | |
| T. abyssorum | | | 3 - 7.5 | 147 | 3 - 8 | 34 |
| Calliopius | 9 | 1 | | | | |

Table 7

| | | | | | | |
|---------------------|------------|-----|------------|----|-----------------------|----|
| Stn. 30, Aug. 16 | 12.15 p.m. | | 12.15 p.m. | | | |
| T. compressa | 5 | 1 | | | | |
| T. abyssorum | | | 2 - 5 | 6 | | |
| Calliopius | 2.5 - 9 | 4 | | | | |
| Stn. 32, Aug. 16 | 2.30 p.m. | | 2.30 p.m. | | 2.30 p.m. (62.5-0 m.) | |
| T. compressa | 6 - 8 | 6 | 4.5 | 4 | 7 | 2 |
| Themis to young | 1 | 1 | 2 - 4 | 10 | | |
| Themis to intermed. | 7 | 1 | 7 | 1 | | |
| T. abyssorum | 6 | 1 | 3 - 6.5 | 5 | 1.5 - 5.5 | 5 |
| Stn. 33, Aug. 16 | 4.15 p.m. | | 4.15 p.m. | | 4.10 p.m. (85-0 m.) | |
| T. compressa | 8.5 - 8 | 146 | 5 - 10 | 89 | 4.5 - 7.5 | 13 |
| Themis to young | 1.5 - 4 | 86 | 1.5 - 4.5 | 34 | 2 - 4.5 | 5 |
| T. bispinosa | | | 11 | 1 | | |
| T. libellula | 13 - 18.5 | 10 | 16, 18 | 2 | 12 - 16 | 6 |
| T. abyssorum | | | 3 - 7 | 9 | | |
| Pseudalibrotus | 5 | 1 | 7, 12 | 3 | 13 | 1 |
| Calliopius | 4.5 - 8 | 22 | | | | |

Table 7 (cont'd)

| | 'Horiz. surf. tow | | 20-30 metre tow | | Vertical tow | |
|--------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 35, Aug. 16 | 6.00 p.m. | | 6.00 p.m. | | 5.55 p.m. (65-0 m.) | |
| T. Compressa | 4.5 - 13.5 | 137 | 5 - 10 | 22 | 5 - 6 | 3 |
| Themis to young | 2 - 4.5 | 80 | 2.5 - 4.5 | 7 | 2 - 4.5 | 2 |
| T. bispinosa | 9 - 12 | 6 | 10 | 1 | | |
| Themis to intermed | 11 | 1 | | | | |
| T. libellula | 8.5 - 21 | 113 | | | 15 | 1 |
| T. abyssorum | | | 7 | 1 | | |
| Gammaridea | | | | | 5 | 1 |

Table 8

| | | | | | | |
|--------------------|------------|-----|------------------|---|------------------------|---|
| Stn. 37, Aug. 17 | 10.05 a.m. | | 10.05 a.m. | | 9.55 a.m. (100 - 0 m.) | |
| T. compressa | 5 - 14 | 21 | 5 - 10 | 5 | | |
| Themis to young | 1.5 - 4.5 | 51 | 2 - 4.5 | 9 | 2.5 | 1 |
| T. bispinosa | 9 - 14 | 4 | | | 12 | 1 |
| T. libellula | 16 - 25 | 85 | 16, 17 | 2 | 15 - 20 | 3 |
| T. abyssorum | | | 2.5 - 12 | 7 | | |
| Hyperoche | | | | | 7 | 1 |
| Hyperia medusarum | | | 8 | 1 | | |
| Pseudalibrotus | | | | 6 | | |
| Stn. 39, Aug. 17 | | | Oblique tow only | | 11.45 a.m. (50-0 m.) | |
| Themis to young | | | | | 2 - 3.5 | 3 |
| Themis to sp. | | | | | head region only | 1 |
| T. libellula | | | | | 18 | 1 |
| Stn. 43 Aug. 17 | 2.00 p.m. | | 2.00 p.m. | | | |
| T. compressa | 4.5 - 8 | 137 | 4 - 7 | 3 | | |
| Themis to young | 2 - 4.5 | 312 | 3 | 1 | | |
| T. bispinosa | 5 - 8.5 | 4 | | | | |
| Themis to intermed | 6, 7.5 | 2 | | | | |
| T. libellula | 7.5 - 20 | 16 | | | | |

Table 9

| Amphipod | Horiz. surf. tow | | 20-30-metre tow | | Vertical tow | |
|----------------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 44, Aug. 17 | 12 min. tow | | | | | |
| <i>T. compressa</i> | 5 - 12 | 16 | | | | |
| <i>Themis</i> to young | 2.5 - 4.5 | 10 | | | | |
| <i>T. bispinosa</i> | 13 | 2 | | | | |
| <i>Themis</i> to intermed. | | 1 | | | | |
| <i>T. libellula</i> | 13 - 23 | 26 | | | | |

Table 10

| Stn. 45, Aug. 18 | 10.15 a.m. | | 10.15 a.m. | | 10.10 a.m. (150-0 M.) | |
|----------------------------|------------|-----|------------|----|-----------------------|----|
| <i>T. compressa</i> | 5 - 13 | 311 | 4.5 - 7 | 11 | 4.5 - 8 | 6 |
| <i>Themis</i> to young | 1.5 - 4.5 | 548 | 2 - 4.5 | 6 | 1.5 - 4.5 | 4 |
| <i>T. bispinosa</i> | 7 - 12 | 18 | | | | |
| <i>Themis</i> to intermed. | 9.5 | 1 | | | 9 | 1 |
| <i>T. libellula</i> | 10 - 21 | 8 | | | | |
| <i>T. abyssorum</i> | | | 4 | 1 | 7 | 1 |
| <i>Hyperoche</i> | | | | | 11 | 1 |
| <i>Pseudalibrotus</i> | | | | | 4.5 | 1 |
| <i>Gammarus</i> sp. | 4.5 | 1 | 5.5 | 1 | | |
| Stn. 46, Aug. 18 | 1.00 p.m. | | 1.00 p.m. | | 12.45 p.m. (150-0 M.) | |
| <i>T. compressa</i> | 14 | | 4.5 - 5 | 6 | | |
| <i>Themis</i> to young | 1 - 4.5 | 309 | 2 - 4 | 3 | 2.5 - 4.5 | 3 |
| <i>T. bispinosa</i> | 10 - 14 | 4 | | | | |
| <i>Themis</i> to intermed. | 5.5 | 1 | 5 | 1 | | |
| <i>T. libellula</i> | 12.5 - 24 | 10 | | | 18 - 24 | 12 |
| <i>T. abyssorum</i> | | | 5.5 | 2 | | |
| <i>Hyperoche</i> | | | 8 | 1 | 10 | 1 |
| <i>Pseudalibrotus</i> | | | | 1 | 11 | 1 |
| Stn. 47, Aug. 18 | 5.05 p.m. | | 5.05 p.m. | | 4.45 p.m. (275-0 m.) | |
| <i>T. compressa</i> | 4.5 - 7 | 89 | | | 5 - 13.5 | 6 |
| <i>Themis</i> to young | 2 - 4.5 | 45 | 2 - 3 | 4 | 2 - 4.5 | 3 |
| <i>T. bispinosa</i> | | | 10 - 14 | 3 | 10 - 12 | 3 |
| <i>Themis</i> to intermed. | | | | | 12 | 2 |
| <i>T. abyssorum</i> | | | | | 3.5 | 1 |
| <i>Hyperoche</i> | | | 9.5 | 1 | 8.5 | 1 |
| <i>Syrrhoe crenulata</i> | | | | | 5 | 1 |
| <i>Harpinia cabotensis</i> | | | | | 6 | 1 |
| <i>Ampelisca</i> sp. | | | | | 4 - 7.5 | 4 |
| <i>Rozinante fragilis</i> | | | | | | 14 |

Table 10 (cont'd)

| Amphipod | 'Horiz. surf. tow | | 20-30 metre tow | | Vertical tow | |
|----------------------------------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | Size range ¹ (mm.) | No. | Size range ¹ (mm.) | No. | Size range ¹ (mm.) | No. |
| Stn. 48, Aug. 18 | | | 8.50 p.m. | | | |
| T. compressa | | | 4.5 - 15 | 173 | | |
| Themisto young | | | 2.5 - 4.5 | 98 | | |
| T. bispinosa | | | 6.5 - 14 | 121 | | |
| Themisto intermed. | | | 7 - 10 | 5 | | |
| T. libellula | | | 17, 20 | 2 | | |
| N. B. 1/4 Amphipods counted | | | | | | |
| Stn. 49, Aug. 19 | 1.30 a.m. | | 1.30 a.m. | | 2.50 a.m. (800-0 m.) | |
| T. compressa | 4.5 - 10 | 37 | 4.5 - 7.5 | 22 | 4.5 - 15 | 114 |
| Themisto young | 2 - 4.5 | 85 | 1 - 4.5 | 660 | 2 - 4.5 | 65 |
| T. bispinosa | 7 - 11 | 3 | 4.5 - 11 | 63 | 10 - 15 | 108 |
| Themisto intermed. | 8 | 1 | | | 6.5 - 10 | 6 |
| T. abyssorum | | | | | 4.5, 8 | 3 |
| T. libellula | | | | | 12 - 20 | 10 |
| Stn. 50, Aug. 19 | 6.10 a.m. | | 6.10 a.m. | | 5.55 a.m. (180-0 m.) | |
| T. compressa | 4.5 - 6.5 | 47 | 4.5 - 12 | 31 | 4.5 - 14 | 10 |
| Themisto young | 2 - 6.5 | 89 | 3.5 - 4.5 | 11 | 1 - 2 | 5 |
| T. bispinosa | 6 - 12 | 30 | 7 - 13 | 601 | 5 - 13 | 6 |
| Themisto intermed. | 3.5 - 6 | 23 | 10 - 11 | 8 | 6 | 1 |
| T. libellula | | | 8.5 - 15 | 20 | head only | 1 |
| Hyperoche | | | 9 | 1 | | |
| Stn. 51, Aug. 19 | 10.35 a.m. | | 10.35 a.m. | | 10.15 a.m. (230-0 m.) | |
| T. compressa | | | 13, 14 | 2 | 4.5 - 10 | 24 |
| Themisto young | 2 | 1 | 2 - 4 | 7 | 3 - 4.5 | 8 |
| T. bispinosa | | | 8 - 13.5 | 68 | 4.8 | 3 |
| Themisto intermed. | | | 4 | 4 | 3.5 - 6 | 3 |
| T. libellula | | | 12 - 19 | 5 | 18 - 22 | 5 |
| T. abyssorum | | | | | 10 | 1 |
| Pseudalibrotus | | | 15 | 1 | | |
| Stegocephalus inflatus | | | | | 10 | 1 |
| Tiron acanthurus | | | | | 11 | 1 |
| Gammaridea | | | | | | 3 |
| Stn. 52, Aug. 19 | 3.15 p.m. | | 3.15 p.m. | | 3.00 p.m. (350-0 m.) | |
| T. compressa | 4.5 - 8.5 | 69 | 4.5 - 8 | 66 | 4.5 - 7 | 25 |
| Themisto young | 1.5 - 4.5 | 127 | 1 - 4.5 | 208 | 1 - 4.5 | 68 |
| T. bispinosa | 6 & 10.5 | 16 | 7 & 11 | 23 | 5.5 - 9 | 4 |
| Themisto intermed. | 7 - 8 | 3 | 5, 7 | 2 | 5.5 - 6.5 | 3 |
| T. libellula | 6.5 - 20 | 40 | | | 15 - 20 | 18 |
| T. abyssorum | | | | | 5 - 10 | 3 |
| Hyperoche | 11 | 1 | | | | |
| Pseudalibrotus | 4.5 | 1 | | | | |
| N. B. 1/2 counted in surface tow | | | | | | |

Table 11

| Amphipod | Horiz. surf. tow | 20-30 metre tow | Vertical tow | | | |
|---------------------------|---------------------|-------------------|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 54, Aug. 21 | 12.15 p.m. | Surface drift net | | | | |
| <i>T. compressa</i> | 4.5 - 9 | 29 | | | | |
| <i>Themisto</i> young | 2.5 - 4.5 | 13 | | | | |
| <i>T. bispinosa</i> | 6 - 14 | 3 | | | | |
| <i>Themisto</i> intermed. | 5.5 | 1 | | | | |
| <i>T. libellula</i> | 15 - 20 | 5 | | | | |

Table 12

| | Horiz. surf. tow | 23-27 metre tow | Vertical tow | | | |
|-----------------------|---------------------|-----------------|----------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 426, Aug. 16 | 9.20 a.m. | 9.00 a.m. | 9.06 a.m. (45-0 m.) | | | |
| <i>T. compressa</i> | | | | | 5.5 | 1 |
| <i>Themisto</i> young | 3 | 2 | 1.5 - 2 | 3 | | |
| <i>Themisto</i> sp. | | | pleon only | 1 | | |
| Stn. 439, Aug. 17 | 11.35 a.m. | 11.35 a.m. | 11.02 a.m. (75-0 m.) | | | |
| <i>Themisto</i> young | | | 3 | 1 | 2.5 | 1 |
| <i>Hyperoche</i> | 1, 1.5 | 2 | | | | |
| <i>Hyperia</i> galba | | | 4.5 - 5 | 5 | 3 - 8 | 5 |
| <i>Calliopius</i> | 6.5 | 1 | | | | |
| <i>Gammarus</i> sp. | | | | 1 | | |

Table 13

| | | | | | | |
|-----------------------|-----------------------|----|--|--|--|--|
| Stn. 55, Aug. 21 | 15 min. drift net tow | | | | | |
| <i>T. bispinosa</i> | 13 | 1 | | | | |
| Horiz. surf tow | | | | | | |
| Stn. 57, Aug. 21 | 7.35 p.m. | | | | | |
| <i>T. compressa</i> | 5 | 1 | | | | |
| <i>Themisto</i> young | 1 - 3 | 13 | | | | |
| <i>T. libellula</i> | 12 - 18 | 9 | | | | |
| <i>Hyperoche</i> | 8 - 9 | 4 | | | | |
| <i>Calliopius</i> | 8.5 | 1 | | | | |
| <i>Pseudalibrotus</i> | 4.5 - 5.5 | 3 | | | | |
| <i>Gammarus</i> sp. | 16.5 | 1 | | | | |

Table 14

| Amphipod | Horiz surf. tow | | 20-30 metre tow | | Vertical tow | |
|-----------------------|------------------------------|-----|---------------------|-----|----------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 59, Aug. 30 | 3.45 p.m. | | 3.45 p.m. | | 2.15 p.m. (275-0 m.) | |
| <i>T. compressa</i> | | | | | | |
| <i>Themisto</i> young | | | | | | |
| <i>T. abyssorum</i> | | | 1, 3 | 2 | | |
| <i>Calliopius</i> | 3 | 1 | | | | |
| Halirages | | | | | | |
| fulvocinctus | | | | | | |
| <i>T. abyssorum</i> | 200-150 m. vert. closing tow | | 3.12 p.m. | | 6 - 9.5 | 3 |

Table 15

| | 11.50 a.m. | | 10.10 a.m. | | | |
|---------------------------|------------|---|------------|-----|--------|-----|
| <i>T. compressa</i> | | | 8 | 7 | 6 - 8 | 7 |
| <i>Themisto</i> young | | | 3.5 | 1 | | |
| <i>T. bispinosa</i> | | | 7 - 10 | 6 | 5 ± 10 | 2 |
| <i>Themisto</i> intermed. | | | 8 | 3 | 8 | 1 |
| <i>T. abyssorum</i> | | | 3 - 8 | 176 | 5 - 10 | 291 |
| <i>Calliopius</i> | 3.5, 6 | 2 | | | | |

Table 16

| | 2.47 p.m. | | 23-27 metre tow | | | |
|---------------------------|------------|-----|-----------------|----|--|--|
| <i>T. compressa</i> | 4.5 | 25 | | | | |
| <i>Themisto</i> young | 1 - 4 | 145 | | | | |
| <i>Calliopius</i> | 8 | 1 | | | | |
| Gammaridea | 1 | 1 | | | | |
| Stn. 409, Sept. 7 | 2.07 p.m. | | 2.07 p.m. | | | |
| <i>Themisto</i> young | 3 | 3 | 1.5 - 3.5 | 26 | | |
| Stn. 410, Sept. 7 | 1.10 p.m. | | 1.10 p.m. | | | |
| <i>T. compressa</i> | | | 4.5 - 6.5 | 11 | | |
| <i>Themisto</i> young | 3.5 | 1 | 1 - 4.5 | 25 | | |
| <i>Calliopius</i> | 11 | 1 | | | | |
| Stn. 411, Sept. 7 | 12.00 noon | | 12.00 noon | | | |
| <i>T. compressa</i> | | | 4 | 7 | | |
| <i>Themisto</i> young | | | 1 - 4 | 25 | | |
| <i>Themisto</i> intermed. | 7 | 1 | | | | |

Table 16 (cont'd)

| Amphipod | Horiz. surf. tow | | 23-27 metre tow | | Vertical tow | |
|----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 412, Sept. 7 | 10.45 a.m. | | | | | |
| Themisto young | 1 - 3 | 14 | | | | |
| Pontogenesia inermis | 3.5 | 1 | | | | |

Table 17

| 20-30 metre tow | | | | | | |
|--------------------|------------|-----|------------|----|--|--|
| | 12.10 p.m. | | 12.10 p.m. | | | |
| Stn. 64, Sept. 6 | 12.10 p.m. | | 12.10 p.m. | | | |
| T. compressa | 5 - 10 | 24 | 4.5 | 10 | | |
| Themisto young | 1 - 4.5 | 71 | 1 - 4 | 80 | | |
| T. bispinosa | 5.5, 6.5 | 2 | | | | |
| Themisto intermed. | 4 - 6 | 4 | | | | |
| Calliopius | 1 - 11 | 18 | | | | |
| Stn. 65, Sept. 6 | 1.40 p.m. | | 1.40 p.m. | | | |
| T. compressa | 4.5 - 9 | 185 | 4.5 - 6.5 | 15 | | |
| Themisto young | 2 - 4.5 | 153 | 2 - 4.5 | 11 | | |
| T. bispinosa | 6 - 8 | 17 | | | | |
| Themisto intermed. | 6 - 9 | 9 | 5.5 | 1 | | |
| T. libellula | 15, 20 | 2 | | | | |
| Calliopius | 3.5, 10 | 3 | | | | |
| Stn. 66, Sept. 6 | 3.20 p.m. | | 3.20 p.m. | | | |
| T. compressa | 4.5 - 10 | 380 | 4.5 - 8 | 29 | | |
| Themisto young | 2 - 4.5 | 722 | 2 - 4.5 | 21 | | |
| T. bispinosa | 7 - 10 | 15 | 7 | 1 | | |
| Themisto intermed. | 5 - 10 | 7 | | | | |
| T. libellula | 18 | 1 | | | | |
| Calliopius | 1.5 - 9 | 24 | | | | |
| Gammarus Sp. | 8 | 1 | | | | |
| Stn. 67, Sept. 6 | 4.45 p.m. | | 4.45 p.m. | | | |
| T. compressa | 5 - 10 | 49 | 4.5 - 10 | 59 | | |
| Themisto young | 2 - 4.5 | 13 | | 11 | | |
| T. bispinosa | 9, 10 | | | | | |
| Themisto intermed. | | 1 | 12 | 1 | | |
| T. abyssorum | | | 2.5 | 1 | | |
| Calliopius | 2 - 3 | 2 | 12 | 1 | | |

Table 17 (cont'd)

| Amphipod | Horiz. surf. tow | | 20-30 metre tow | | Vertical tow | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 68, Sept. 6 | 6.15 p.m. | | | | | |
| <i>T. compressa</i> | 4.5 - 13 | 57 | 7.5 - 10 | 3 | | |
| <i>Themisto</i> young | 1 - 4.5 | 343 | 2 - 4 | 17 | | |
| <i>T. libellula</i> | 8 | 1 | | | | |
| <i>Hyperoche</i> | | | 2 | 1 | | |

Table 18

| Amphipod | 11.00 a.m. | | 11.00 a.m. | | | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 69, Sept. 7 | 11.00 a.m. | | 11.00 a.m. | | | |
| <i>T. compressa</i> | 4.5 - 6 | 14 | 9 | 1 | | |
| <i>Themisto</i> young | 2 - 4.5 | 58 | 2 - 4 | 15 | | |
| <i>T. libellula</i> | 7.5 | 1 | | | | |
| <i>Hyperoche</i> | | | 2 | 1 | | |
| <i>Gammarus</i> sp. | 5 - 10 | 6 | 7 | 1 | | |

| Amphipod | 12.20 p.m. | | 12.20 p.m. | | | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 70, Sept. 7 | 12.20 p.m. | | 12.20 p.m. | | | |
| <i>T. compressa</i> | | | 4.5 | 1 | | |
| <i>Themisto</i> young | | | 2.5 - 4.5 | 9 | | |

| Amphipod | 1.55 p.m. | | 1.55 p.m. | | | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 71, Sept. 7 | 1.55 p.m. | | 1.55 p.m. | | | |
| <i>Themisto</i> young | | | 2 - 3 | 18 | | |

| Amphipod | 3.20 p.m. | | 3.20 p.m. | | | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 72, Sept. 7 | 3.20 p.m. | | 3.20 p.m. | | | |
| <i>T. compressa</i> | 8, 9 | 2 | 4.5 | 3 | | |
| <i>Themisto</i> young | 3 - 4 | 6 | 2 - 4.5 | 16 | | |
| <i>T. abyssorum</i> | 3 | 1 | | | | |

Table 19

| Amphipod | 5.00 p.m. | | 5.00 p.m. | | | |
|---------------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 73, Sept. 7 | 5.00 p.m. | | 5.00 p.m. | | | |
| <i>T. compressa</i> | 4.5 - 10.5 | 44 | 4.5 - 6 | 3 | | |
| <i>Themisto</i> young | 1.5 - 4.5 | 169 | 2 - 4.5 | 7 | | |
| <i>T. bispinosa</i> | | | 9 | 1 | | |
| <i>Themisto</i> intermed. | 7 | 1 | | | | |
| <i>Hyperoche</i> | | | 2.5 | 1 | | |

| Amphipod | 7.05 p.m. | | 7.05 p.m. | | | |
|-----------------------|---------------------|-----|---------------------|-----|---------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 74, Sept. 7 | 7.05 p.m. | | 7.05 p.m. | | | |
| <i>T. compressa</i> | 4.5 - 10 | 58 | 5 | 3 | | |
| <i>Themisto</i> young | 1 - 4.5 | 130 | 2.5 - 4.5 | 4 | | |
| <i>Hyperoche</i> | | | 4.5, 13 | 2 | | |

Table 19 (cont'd)

| Amphipod | Horiz. surf. tow | 20-30 metre tow | Vertical tow | |
|---------------------------|------------------|-----------------|------------------|-----|
| | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 75, Sept. 7 | 7.30 p.m. | | 7.30 p.m. | |
| <i>T. compressa</i> | 4.5 - 5 | 8 | 4.5 - 9.5 | 17 |
| <i>Themisto young</i> | 1.5 - 4.5 | 23 | 2 - 4.5 | 38 |
| <i>T. abyssorum</i> | 4 | 1 | | |
| <i>Hyperoche</i> | 10 - 12 | 7 | 3, 5 | 2 |
| <i>Calliopius</i> | | | 7 | 1 |
| Stn. 76, Sept. 7 | 8.45 p.m. | | 8.45 p.m. | |
| <i>T. compressa</i> | 4.5 - 6 | 11 | 4.5 - 8 | 7 |
| <i>Themisto young</i> | 1.5 - 4.5 | 26 | 2 - 4.5 | 10 |
| <i>Calliopius</i> | 7 | | | |
| <i>Pontogenia inermis</i> | 5 - 5.5 | 2 | | |
| Stn. 77, Sept. 7 | 10.05 p.m. | | 10.05 p.m. | |
| <i>T. compressa</i> | 4.5 - 7 | 14 | 4.5 - 9 | 57 |
| <i>Themisto young</i> | 2 - 4.5 | 22 | 1.5 - 4.5 | 185 |
| <i>Themisto intermed</i> | | 1 | | |
| <i>T. abyssorum</i> | | | 8 | 1 |
| Stn. 78, Sept. 7 | 11.45 p.m. | | 11.45 p.m. | |
| <i>T. compressa</i> | 4.5 - 8.5 | 23 | 4.5 - 8 | 15 |
| <i>Themisto young</i> | 1.5 - 4.5 | 31 | 1 - 4.5 | 25 |
| <i>Themisto intermed</i> | 6.5 | 1 | | |
| <i>Calliopius</i> | 3.5 | 1 | | |
| Table 20 | | | | |
| Stn. 80, Sept. 9 | 10.30 a.m. | | | |
| <i>T. compressa</i> | 4.5 - 8 | 12 | | |
| <i>Themisto young</i> | 2 - 4.5 | 7 | | |
| Stn. 81, Sept. 9 | 11.15 p.m. | | | |
| <i>T. compressa</i> | 4.5 - 8 | 23 | | |
| <i>Themisto young</i> | 1 - 4.5 | 17 | | |
| <i>Calliopius</i> | 8.5 | 1 | | |
| | Horiz. surf. tow | | 10-30 metre tow | |
| | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 82, Sept. 11 | 8.45 a.m. | | 8.45 a.m. | |
| <i>T. compressa</i> | 1.5 - 3.5 | 8 | 4.5 | 1 |
| <i>Themisto young</i> | 1.5 - 3.5 | 8 | 1.5 - 3.5 | 2 |
| <i>Hyperoche</i> | 2.5 - 3.5 | 2 | 2 | 1 |

Table 20 (cont'd)

| Amphipod | Horiz. surf. tow | | 10-30 metre tow | | Vertical tow | |
|------------------------------|-----------------------|-----|---------------------|-----|---------------------|----------|
| | Size range & (mm.) | No. | Size range (mm.) | No. | Size range (mm.) | No. |
| Stn. 82, Sept. 11 | 8.45 a.m. | | 8.45 a.m. | | | |
| Calliopius | 10 | 1 | | | | |
| Gammaridea sp. | | 1 | | | | |
| 20-30 metre tow | | | | | | |
| Stn. 83, Sept. 11 | 11.35 a.m. | | 11.35 a.m. | | | (90-0m.) |
| <i>T. compressa</i> | 4.5-7 | 18 | 4.5 | 3 | 6.5 | 1 |
| Themisto young | 2.5 - 4.5 | 31 | 2 - 4.5 | 18 | | |
| Calliopius | 5.7 | 2 | | | | |
| Gammarellus sp. | | 1 | | | | |
| Rhachotropis sp. | | | | | 11 | 1 |
| Acanthostephia malmgreni | | | | | 28 | 1 |
| Anonyx nuxax | | | | | 11 | 1 |
| Ampelisca eschrichtii | | | | | | 4 |
| Byblis gaimardii | | | | | 1 | 1 |
| Monoculodes inter- medius | | | | | | 2 |
| Stn. 84, Sept. 11 | 4.55 p.m. | | 4.55 p.m. | | | |
| <i>T. compressa</i> | 4.5 - 7.5 | 82 | 4.5 - 8.5 | 17 | | |
| Themisto young | 1 - 4.5 | 380 | 1.5 - 4.5 | 46 | | |
| Hyperoche | 2, 2.5 | 2 | | | | |
| Calliopius | 4 | 1 | | | | |
| Stn. 85, Sept. 11 | 9.55 p.m. | | 9.55 p.m. | | | |
| <i>T. compressa</i> | | | 4.5 - 15.2 | 52 | | |
| Themisto young | 2 - 4 | 46 | 1.5 - 4.5 | 194 | | |
| <i>T. bispinosa</i> | | | 11, 14 | 2 | | |
| <i>T. abyssorum</i> | | | 3 - 11 | 10 | | |
| <i>T. libellula</i> | | | 11 | 1 | | |
| Hyperoche | 2 - 3 | 2 | | | | |
| Calliopius | 9.5 | | | | | |
| Stn. 86, Sept. 12 | 11.40 a.m. | | 11.40 a.m. | | | |
| Themisto young | | | 3 | 2 | | |
| <i>T. abyssorum</i> | | | 3 | 1 | | |
| Hyperoche | | | 2, 8 | 2 | | |
| Hyperia galba | | | 13 | 1 | | |
| Gammarus sp. | 3 | 1 | | | | |
| Gammaridea | | | 2.5 | 1 | | |

Table 20 (cont'd)

| Amphipod | 'Horiz. surf. tow' | | '20-30 metre tow' | | 'Vertical tow' | |
|--------------------|-----------------------|-------|-----------------------|-------|-----------------------|-------|
| | 'Size range' (mm.) | 'No.' | 'Size range' (mm.) | 'No.' | 'Size range' (mm.) | 'No.' |
| Stn. 88, Sept. 12 | 2.40 p.m. | | 2.40 p.m. | | 2.30 p.m (125+0 m.) | |
| T. abyssorum | | | | | 2 - 4 | 22 |
| Hyperia galba | | | 16 - 1 | 1 | | |
| Stn. 89, Sept. 12 | 5.15 p.m. | | 5.15 p.m. | | 5.15 p.m. (300-0 m.) | |
| T. compressa | | | 6.5 | 1 | | |
| Themisto young | | | | | 3 | 1 |
| T. libellula | 2.5 | 1 | 7 | 1 | 9 | 1 |
| T. abyssorum | | | | | 2 - 14 | 789 |
| Hyperoche | | | 7 | 1 | 2 - 3.5 | 3 |
| Gammaridea | | | | 1 | | |
| Stn. 91, Sept. 14 | 8.45 a.m. | | 8.45 a.m. | | 8.45 a.m. (300-0m) | |
| T. compressa | 4.5 - 6.5 | 11 | | | 10.5 - 12.5 | 3 |
| Themisto young | 2 - 4.5 | 8 | 2.5 | 1 | | |
| T. bispinosa | | | | | 12, 13.5 | 2 |
| T. libellula | | | | | 13 | 1 |
| T. abyssorum | | | | | 2.5, 11 | 2 |
| Stn. 92, Sept. 14 | 3.15 p.m. | | 3.15 p.m. | | 3.15 p.m. (150-0m.) | |
| T. compressa | 4.5 - 5 | 7 | | | | |
| Themisto young | 2.5 - 4.5 | 31 | 2.5 - 3 | 2 | | |
| T. bispinosa | 13 | 1 | | | ANT. PORTION ONLY | 1 |
| T. abyssorum | | | 3 | 1 | | |
| Hyperoche | | | 3.5 - 8 | 4 | | |
| Stn. 93, Sept. 14 | 7.45 p.m. | | 7.45 p.m. | | | |
| T. compressa | 5 - 14 | 350 | 4.5 - 12.5 | 176 | | |
| Themisto young | | | 1 - 4.5 | 95 | | |
| T. bispinosa | 6.5 - 13.5 | 400 | 5 - 13.5 | 148 | | |
| Themisto intermed. | 12 | 2 | 10 | 2 | | |

N. B. Counts were made on 1/200th part of the total amphipod catch in surface tow.

Table 21

| Amphipod | ' Horiz. surf. tow | | ' 23-27 metre tow | | ' Vertical tow | |
|--------------------|--------------------|-------|-------------------|-------|----------------|-------|
| | ' Size range | ' No. | ' Size range | ' No. | ' Size range | ' No. |
| | (mm.) | | (mm.) | | (mm.) | |
| Stn. 448, Sept. 10 | 9.37 a.m. | | 9.37 a.m. | | | |
| Themisto young | 3 | 1 | 1.5 | 2 | | |
| Hyperoche | | | 2 | 1 | | |
| Calliopius | 10 - 12 | 5 | | | | |
| Gammarus sp. | | 2 | | | | |
| Phronima sp. | | | 2 | 1 | | |
| Gammaridea | 5 | 1 | | | | |
| Stn. 451, Sept. 15 | 7.15 a.m. | | 7.15 a.m. | | | |
| Themisto young | 2 - 3.5 | 17 | 1 - 2 | | | |
| Gammarus sp. | 13 | 1 | | | | |
| Gammaridea | | 1 | | | | |

