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# The Vertical Distribution of Zooplankton and Ichthyoplankton on the Nova Scotia Shelf during September 1985

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# THE VERTICAL DISTRIBUTION OF ZOOPLANKTON AND ICHTHYOPLANKTON ON THE NOVA SCOTIA SHELF DURING SEPTEMBER 1985

by

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## ABSTRACT



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During September 16 to 30, 1985, zooplankton and micronekton samples were collected from the surface down to approximately 20m off the bottom down to a maximum depth of 1427m at various locations on the Nova Scotia shelf and slope. These samples provided data on the major sources of zooplankton on the Nova Scotia shelf with major emphasis placed on *Calanus finmarchicus*. In this report we make available the raw data for all species plus depth profiles for selected species.

## RESUMÉ

Lewis, M.K. and D.D. Sameoto. 1990. The vertical distribution of zooplankton and ichthyoplankton on the Nova Scotia shelf during September 1985. Can. Data Rep. Fish. Aquat. Sci. No. 803: iv + 149 p.

Au cours de la période du 16 au 30 septembre 1985, des échantillons de zooplancton et de micronecton ont été prélevés dans la région du talus continental au large de la Nouvelle Ecosse, à des profondeurs allant de la surface à environ 20m au-dessus du fond, jusqu'à un maximum de 1427m. Cette étude vise à determiner la principale composante des populations de zooplancton de la zone côtière de Nouvelle Ecosse, en se référant particulièrement à l'espèce *Calanus finmarchicus*. Nous donnons dans ce rapport les résults bruts pour toutes les espèces, ainsi que les répartitions verticales de quelques espèces sélectionnées.

# CONTENTS

# INTRODUCTION

The following is a report of BIONESS data collected during C.S.S. Dawson cruise #85028 on the Nova Scotia shelf between September 16-30, 1985. The primary objective of this cruise was to determine the vertical distribution of zooplankton species in the basins on the Scotian shelf using the BIONESS. In addition, these samples provide data on the major source of zooplankton on the shelf with emphasis on *Calanus finmarchicus*. The third objective was to use the optical zooplankton counter mounted on the BIONESS and compare its data with the biological samples.

# METHODS

## Biological Sampling

All zooplankton samples and oceanographic data described below were collected with the BIONESS sampler (Sameoto et al.,1980). The BIONESS was equipped with ten one $m^2$ 243μm mesh nets. The BIONESS was towed at 3-5 knots along an oblique path through the various depth strata. The volume of water sampled per sample varied from 13 to 1057$m^3$. The winch speed during sampling was constant and therefore the volume filtered depended upon the depth range of the sample. Flow through each net and the net depth were constantly monitored.

For six BIONESS tows, 50-80μm mesh nets 12cm$^2$ in diameter, were fitted into the mouths of the standard nets (tows 7, 9, 12, 14, 16 and 26). This data will be published in a future data report on microzooplankton.

During most shallow tows, (0-100m), depth strata were sampled from the surface downward whereas for deep tows (i.e. >100m), the net was lowered to the deepest depth strata and sampled from the bottom up. The BIONESS provided simultaneous data on the temperature and salinity, time of sampling, speed through the water, net flow and volume of water filtered. Conductivity, (salinity), and temperature were measured by a Guildline Instruments digital conductivity cell model 87410 and temperature probe model 87401. Values for the time, depth, flow, volume, temperature, conductivity, and salinity were recorded on magnetic tape once every second during the tows. Oxygen data is not available for this cruise.

The BIONESS tows were conducted at stations along 3 lines across the Scotian shelf (Fig. 1). The first series of BIONESS tows (#1-11) were taken along the Halifax line which included 4 stations in Emerald basin (tows 3-5,10,11). The second line, tows 12-17, ran from shallow water off the coast of Louisbourg, Cape Breton to the edge of the shelf. Tow 20 was in Louisbourg basin. Tow 21 was on the edge of the Laurentian Channel. The third line, tows 22-27 ran through the center of the Laurentian Channel into slope water.

The optical zooplankton sampler (Herman 1988) was mounted on the side of the BIONESS frame for 8 tows (tows 10, 11, 20-22, 24-26). Data from the counter provided numbers and sizes of zooplankton in the 0.2 to 30mm size range. This data was stored for future analysis and is not presented in this report.

**Sample Analysis**

All zooplankton samples were preserved in 4% buffered formalin and seawater solution. In the lab, the total sample was wet weighed and all fish larvae and other organisms >1cm were removed. These >1cm animals were identified to the lowest taxon possible and a wet weight for each group recorded. A subsample of each group was measured for length to the nearest millimeter. The fish were measured for standard length. The euphausiids were measured from the tip of the rostrum to the tip of the telson.

The remainder of the sample containing zooplankton <1cm in length was split using a Motoda splitter (Motoda 1959) and/or a pipette down to approximately 400 individuals. All individuals in this subsample were identified to species for the Copepoda and genus for other classes and phyla. *Calanus finmarchicus*, *C. glacialis* and *C. hyperboreus* were staged. Stage VI *Calanus* were sexed and females were examined and classified as immature, gravid or spent (Lewis and Sameoto, 1989). This analysis was completed by Spry Tech Biological Services, Elmsdale, N.S. All data were entered into the Cyber computer and an IBM microcomputer.

Calanus spp. were identified down to species stage level and then measured for future comparison with the bugcounter data. The number of individuals measured as well as the stage centroid length and standard deviation is presented for tows 10, 11 and 20 in table 1.

## RESULTS

Twenty-seven BIONESS tows were made on the twenty-four stations.

### Temperature/Salinity/Depth Profiles

Temperature and salinity depth profiles from the BIONESS ctd data are presented (Fig. 2), plus TS diagrams. Data were not available for tows 13, 18, 16, 22 and 25.

### Zooplankton Composition and Depth Distribution

Numbers per cubic meter and numbers per square meter for all species (<1cm) are listed in Table 2.

Depth profiles are included for all species of Copepoda with an abundance greater than ten occurrences over the entire cruise. Depth distributions for these species in the three areas are shown in Fig. 3. Tows 16-17 and 26-27 were combined to provide a complete depth profile for day and night on the Louisbourg Basin and Laurentian Channel lines.

**Length Frequencies**

Histograms of length frequencies are presented for: amphipoda; mysidacea; euphausiacea (*Meganyctiphanes norvegica, Thysanoessa inermis, T. longicaudata*); Chaetognatha and three fish (*Benthosema glaciale, Cyclothone* sp. and *Merluccius bilinearis*). (Fig. 4).

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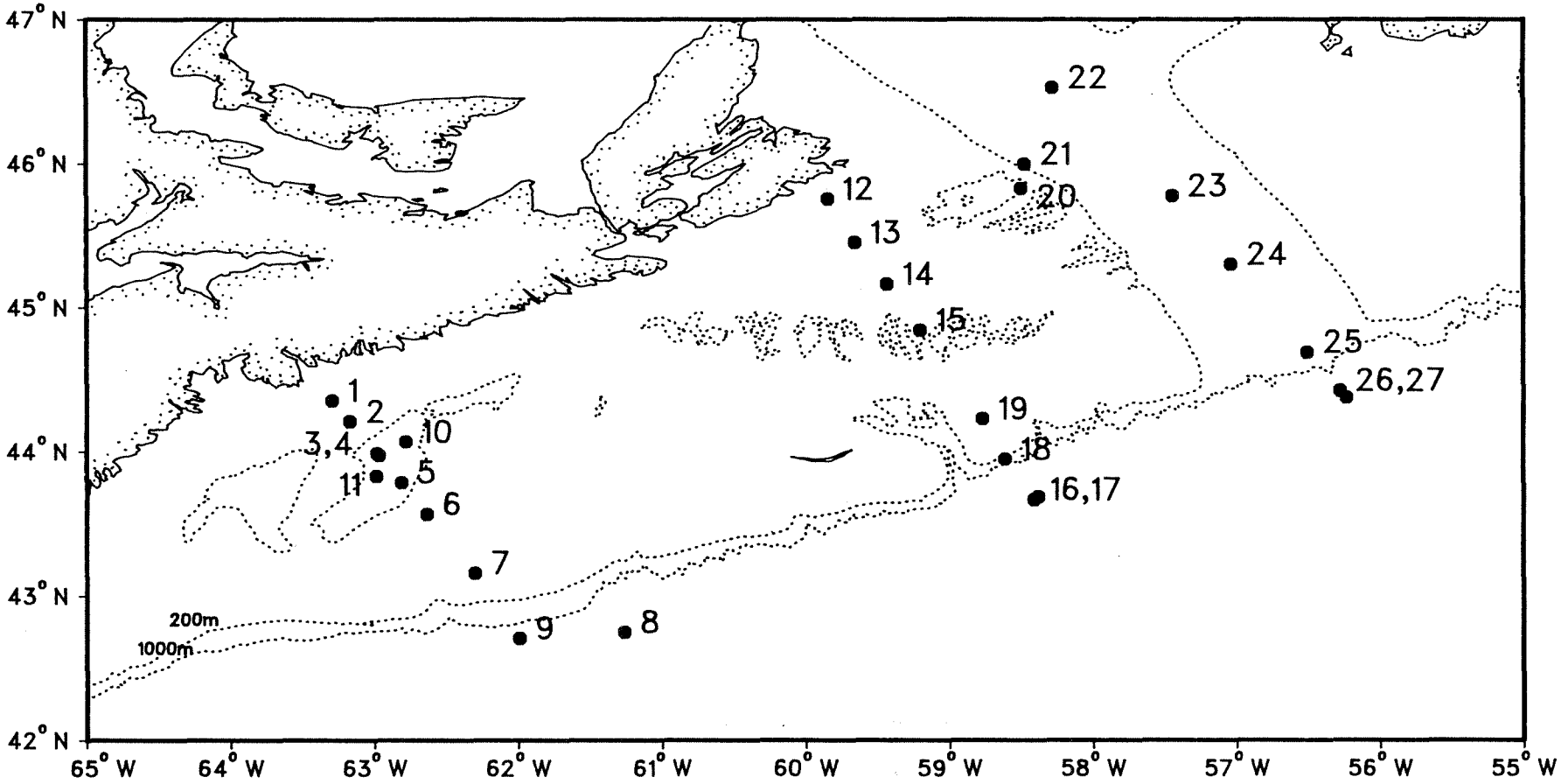
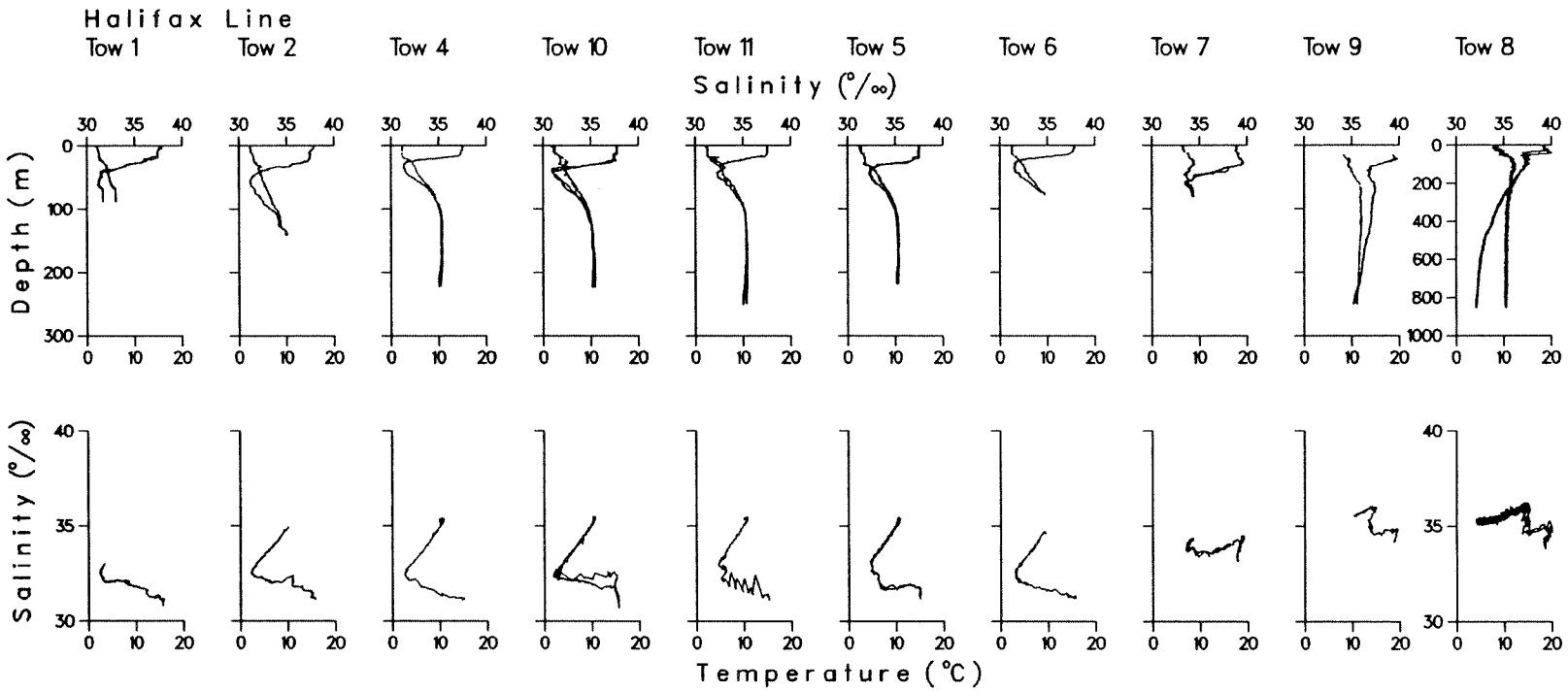
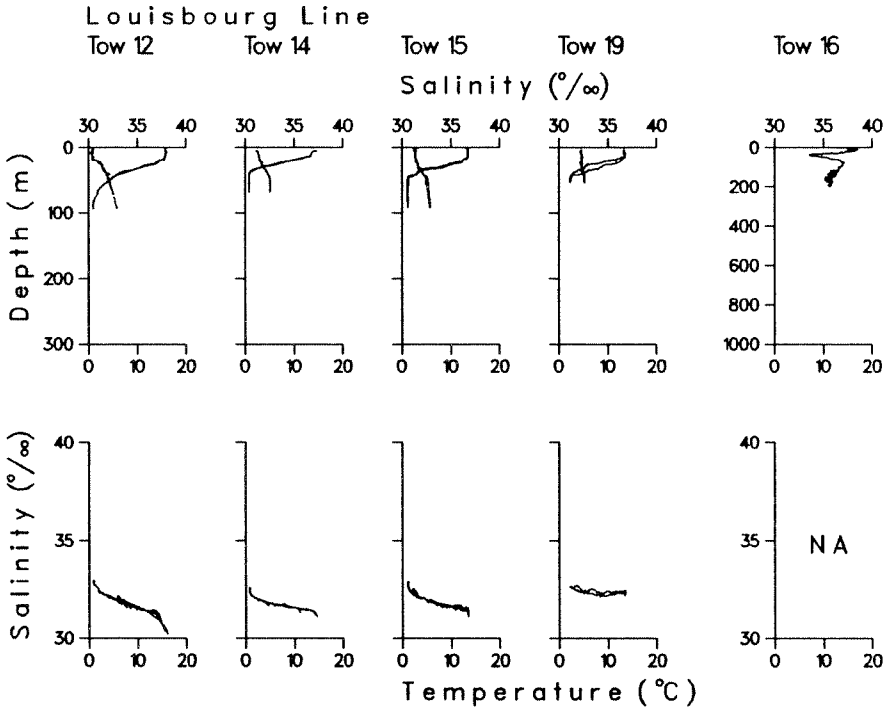



Fig. 1. Location of Sampling. (Halifax Line = tows 1–11; Louisbourg Line = tows 12–19; Laurentian Channel Line = tows 22–27).

Fig. 2. Temperature and salinity depth profiles and TS diagrams for representative tows in the four areas: a) Halifax line including Emerald Basin; b) the Louisbourg line; c) Louisbourg Basin and surrounding region; and d) the Laurentian Channel line.


Halifax Line
Tow 1
Tow 2
Tow 4
Tow 10
Tow 11
Tow 5
Tow 6
Tow 7
Tow 9
Tow 8
Salinity (°/∞)
Depth (m)
Salinity (°/∞)
Temperature (°C)


Louisbourg Line
Tow 12
Tow 14
Tow 15
Tow 19
Tow 16
Salinity (°/∞)
Depth (m)
Salinity (°/∞)
Temperature (°C)
NA

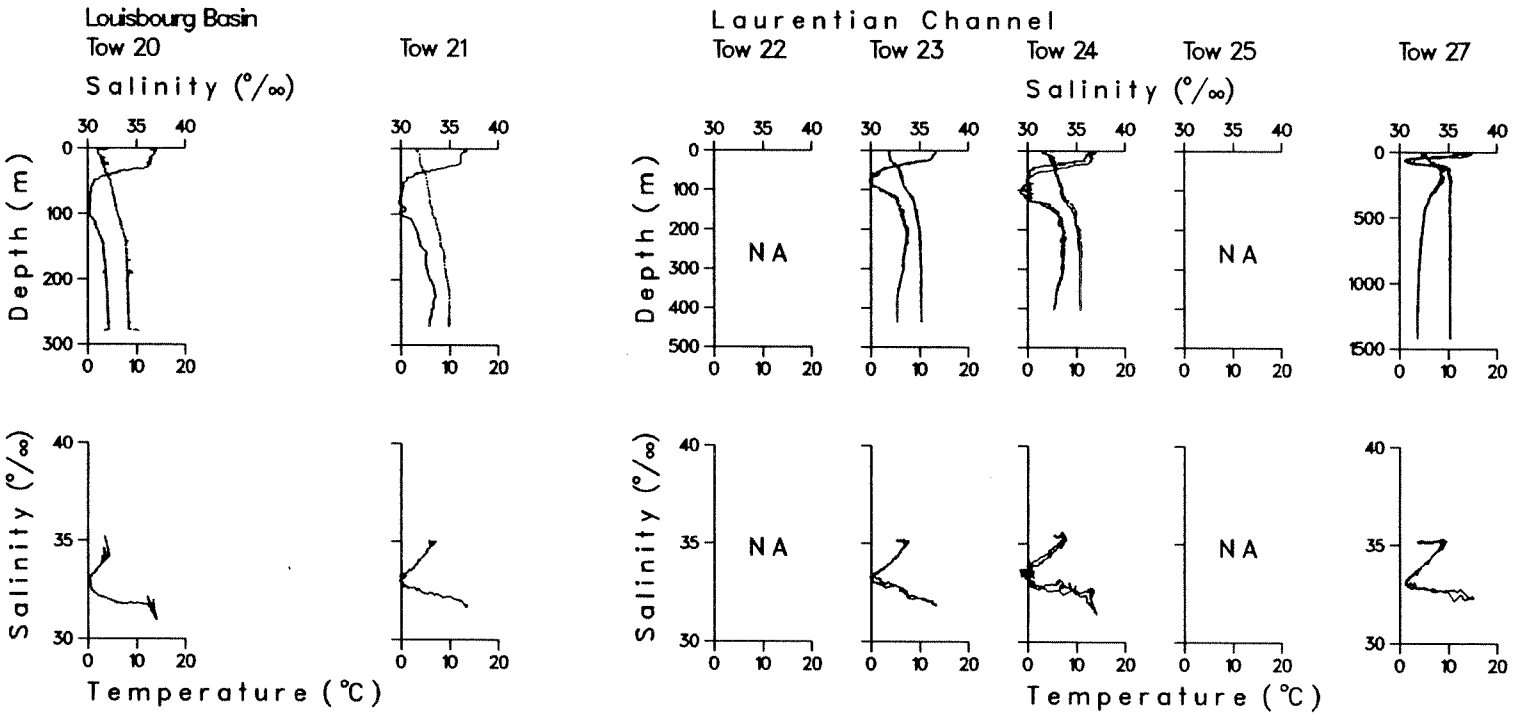

Louisbourg Basin
Tow 20
Tow 21
Laurentian Channel
Tow 22
Tow 23
Tow 24
Tow 25
Tow 27
Salinity (°/∞)
Depth (m)
NA
Salinity (°/∞)
Temperature (°C)

Fig. 3. Vertical distributions for species of Copepoda which occurred in more than 10 BIONESS samples. The profiles are arranged according to the position of the tows on the shelf: the Halifax line including Emerald Basin (tows 1-11); the Louisbourg line (tows 12-18); Louisbourg Basin (tow 20) and surrounding region (tow 21) and the Laurentian Channel line (tows 22-27). *Calanus* spp. were identified down to stage level. *Calanus* spp. stage VI females were subdivided according to maturity: developing (D), gravid (G) or spent (S). The total for *Calanus* spp. was also plotted (T). Unidentified, damaged and exoskeletons of copepoda were lumped together to produce one profile labeled "U/D/E Copepoda".

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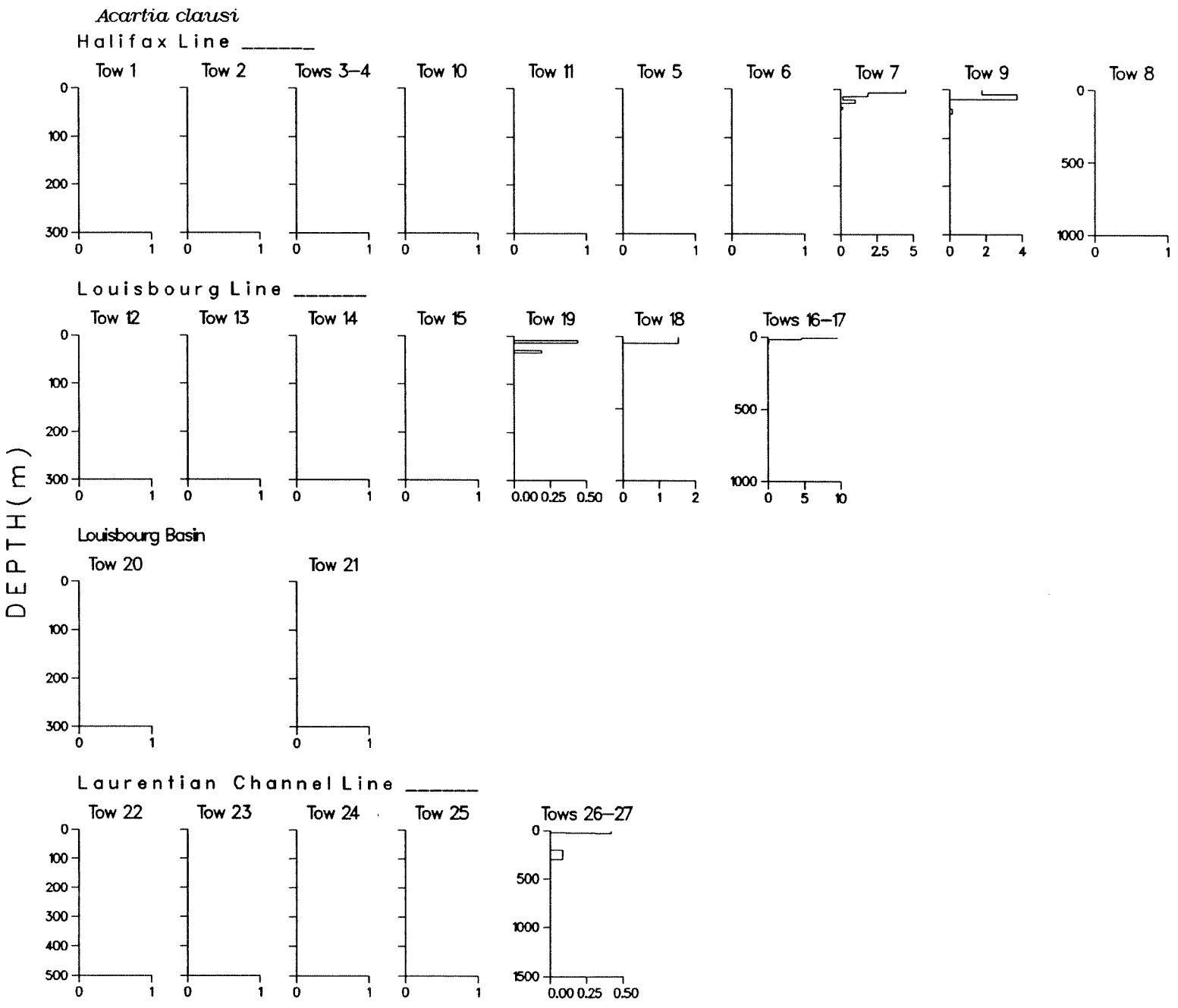

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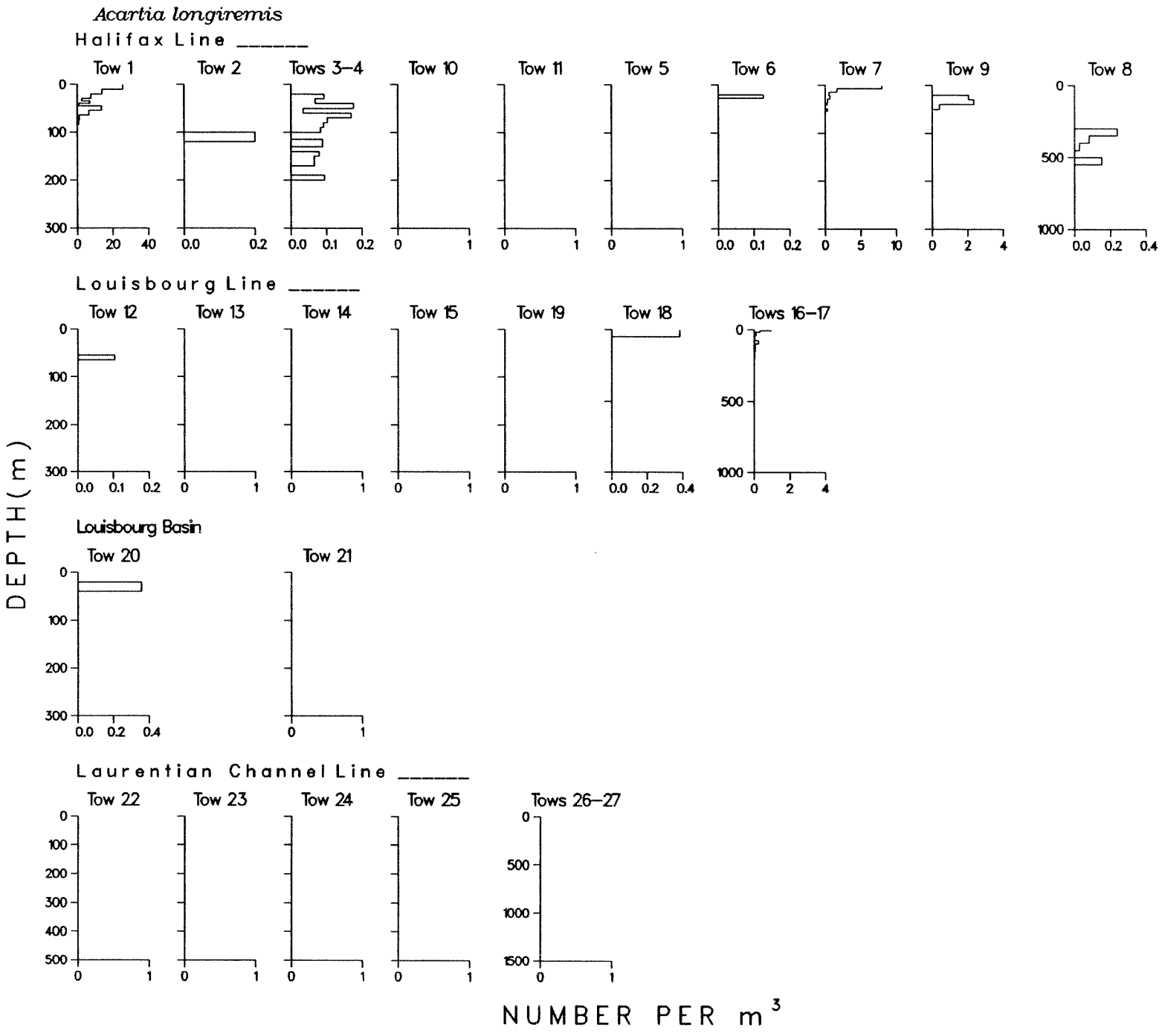

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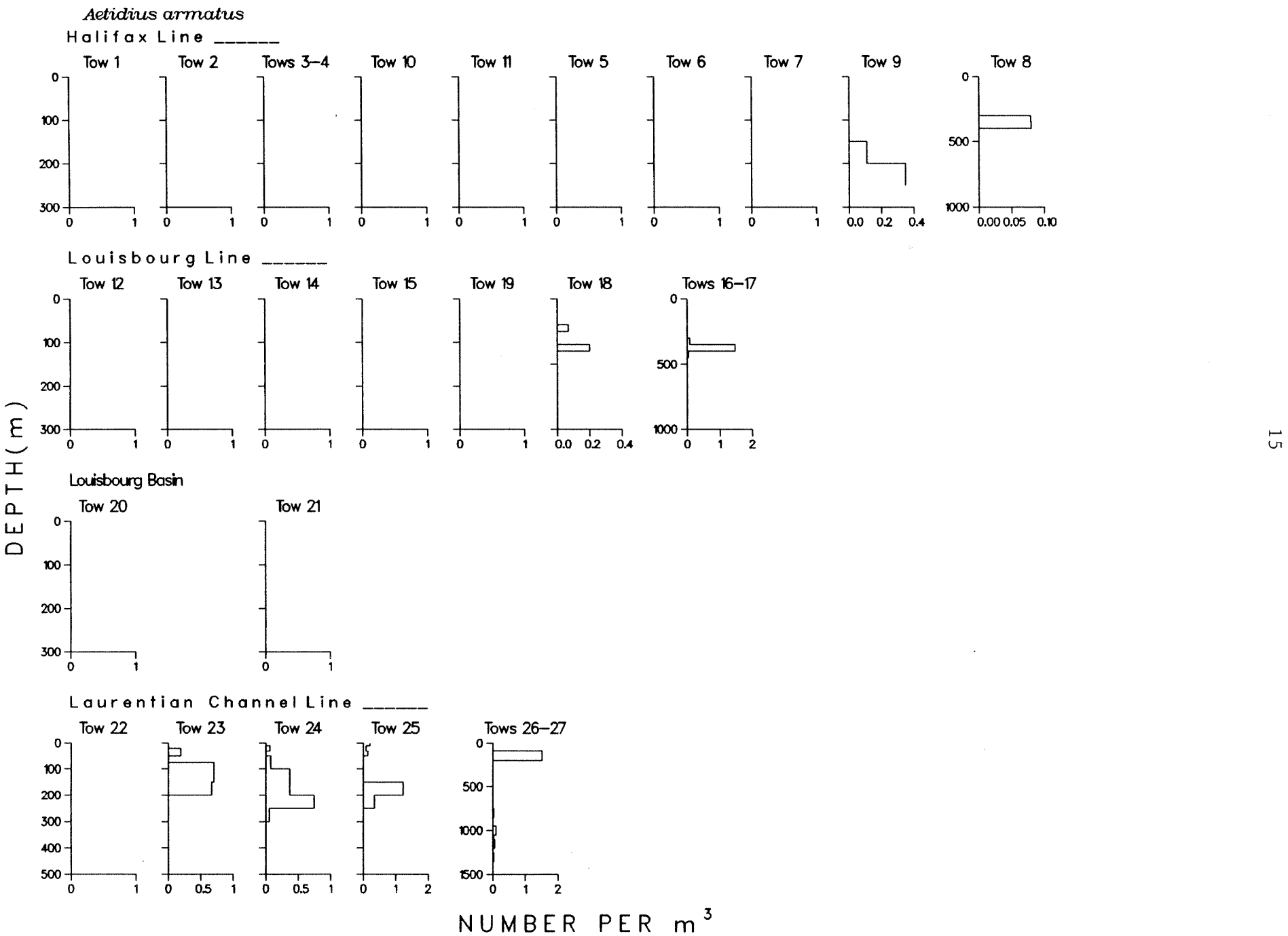

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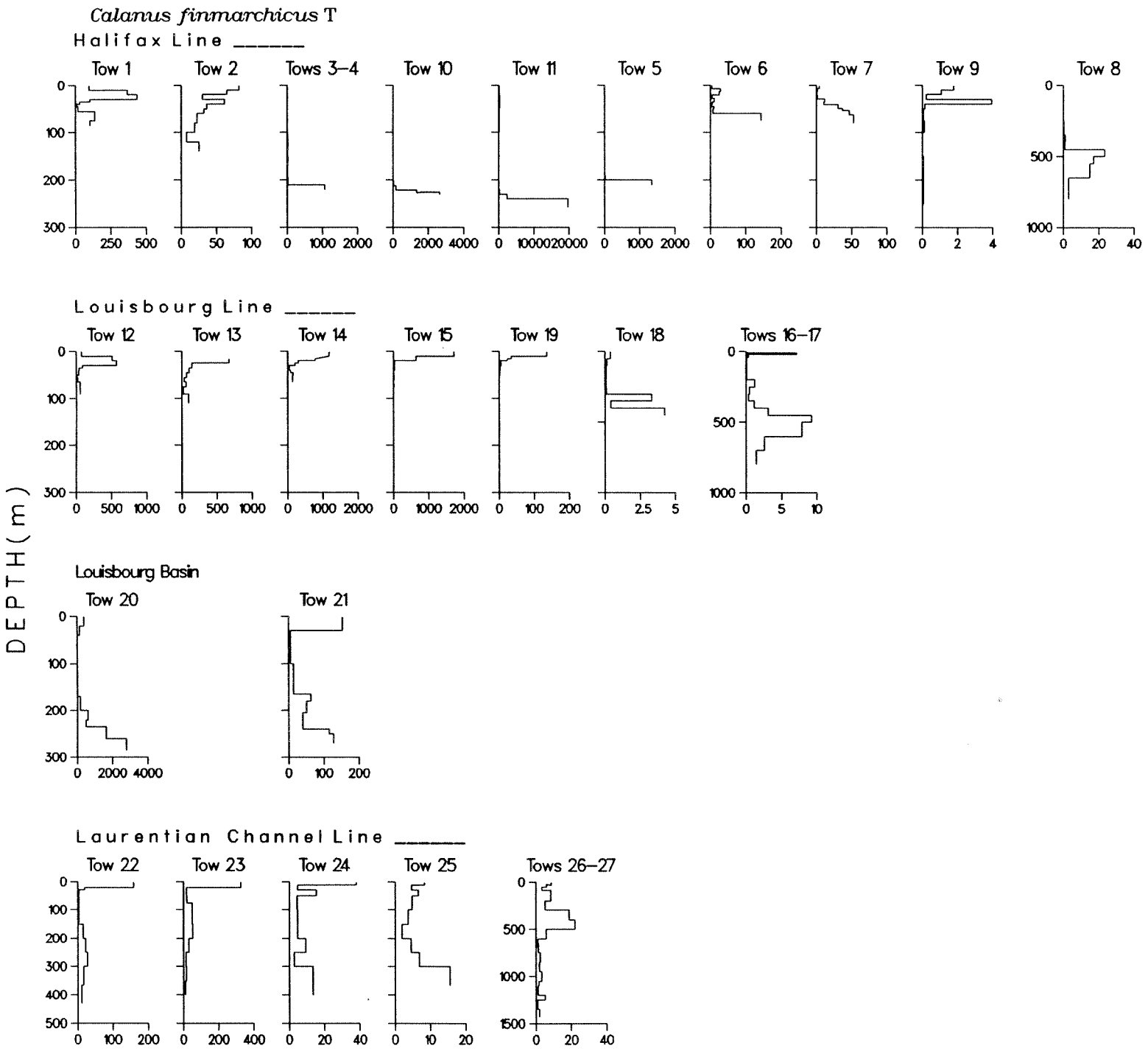

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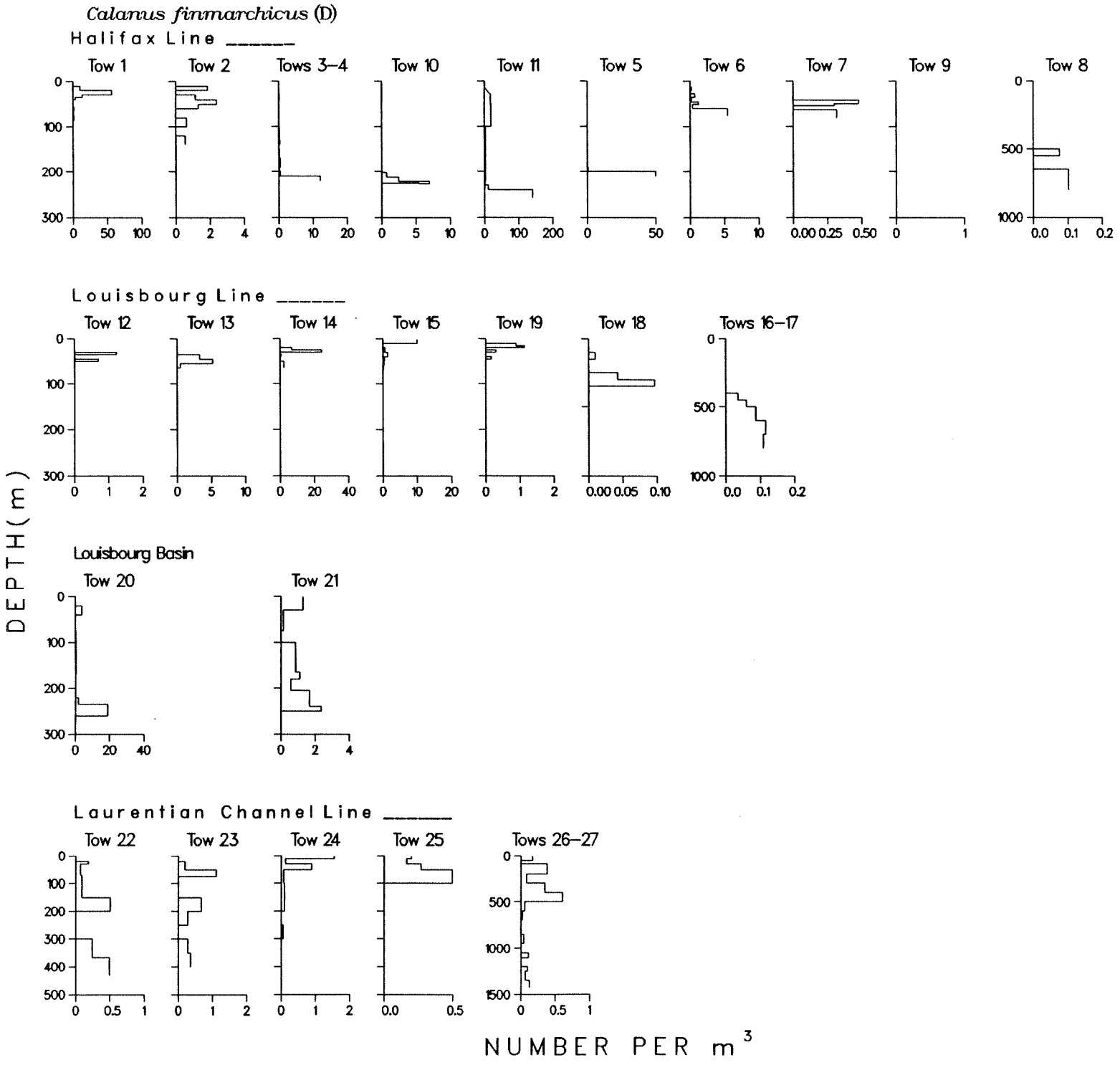

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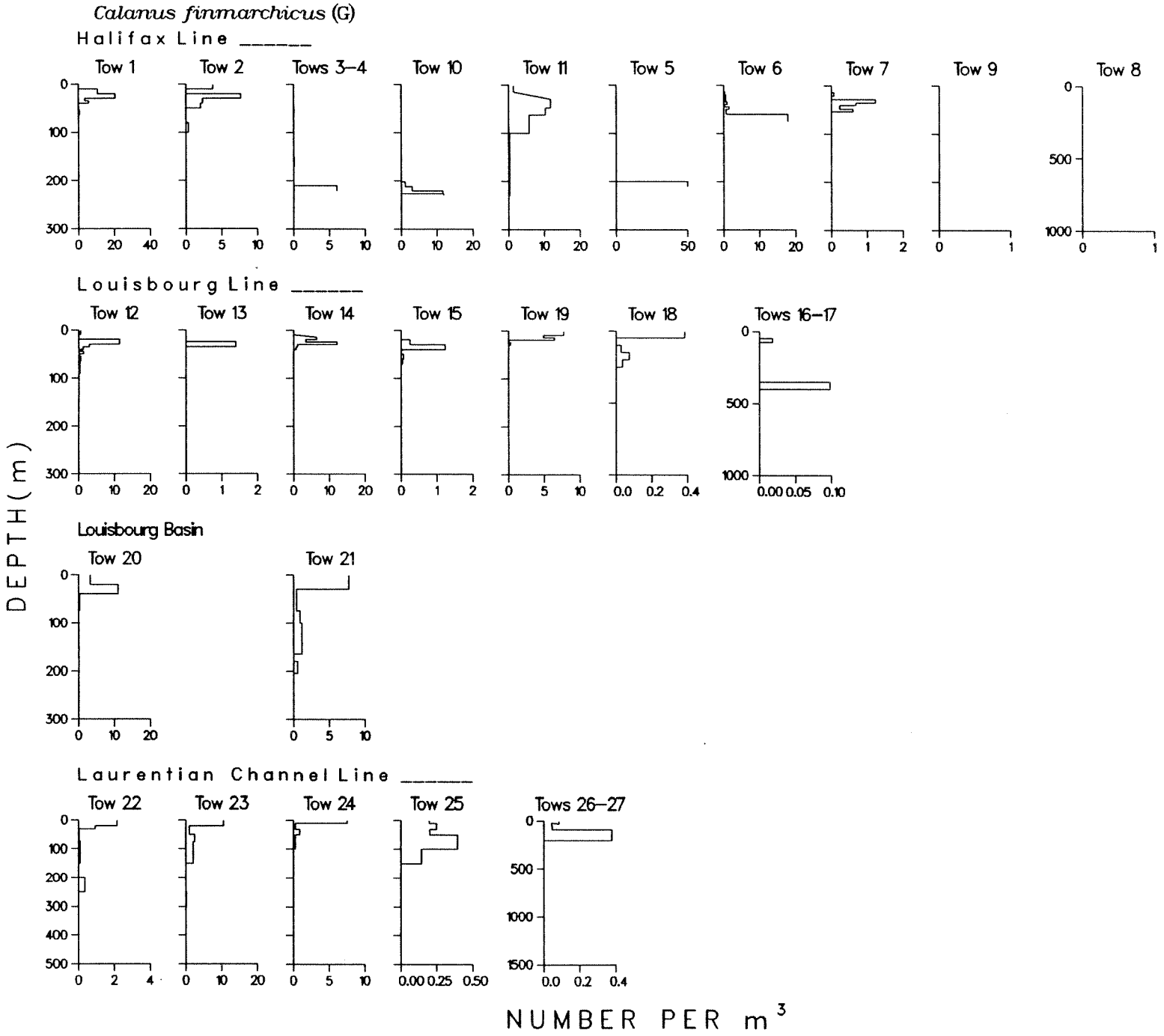

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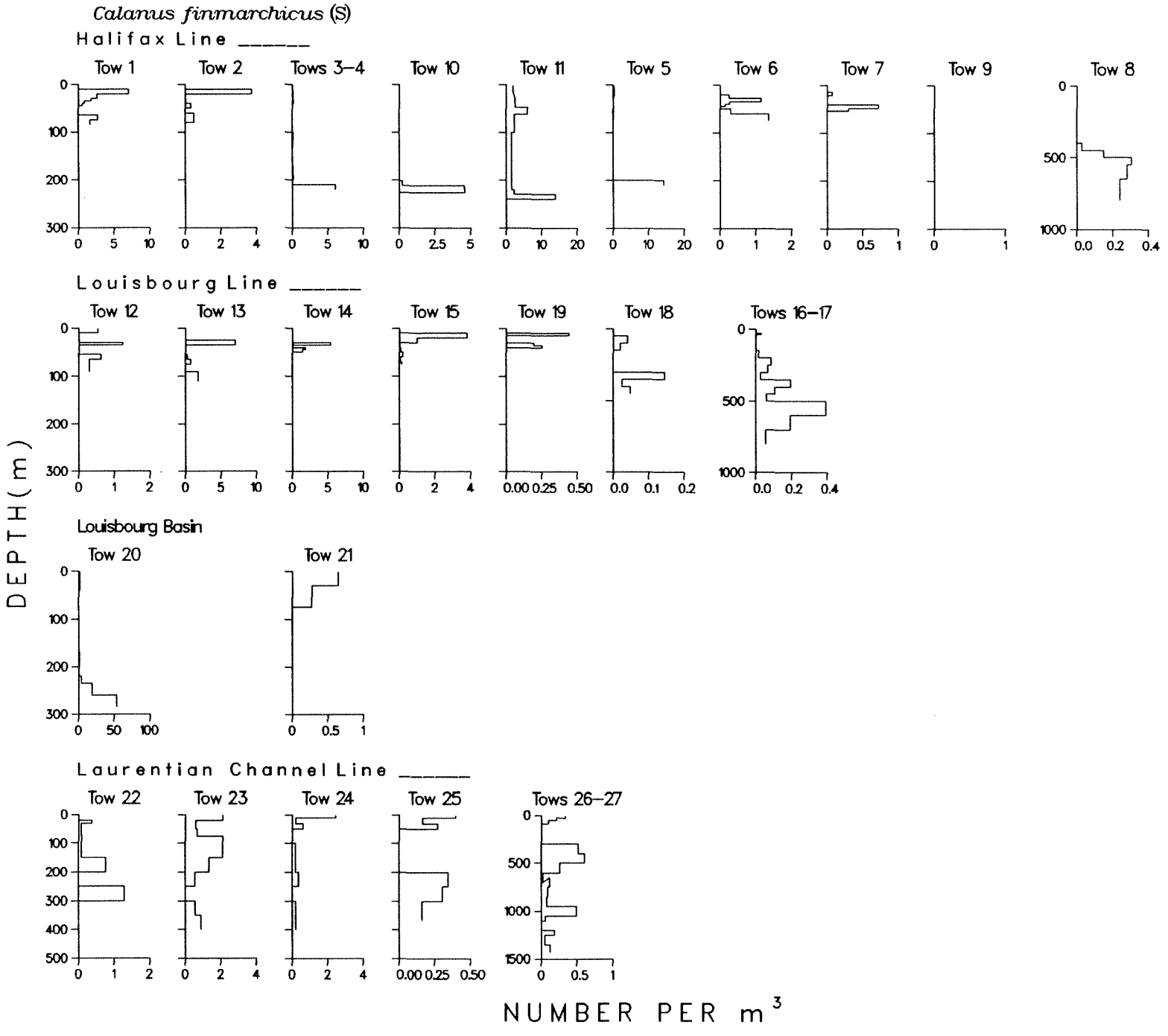

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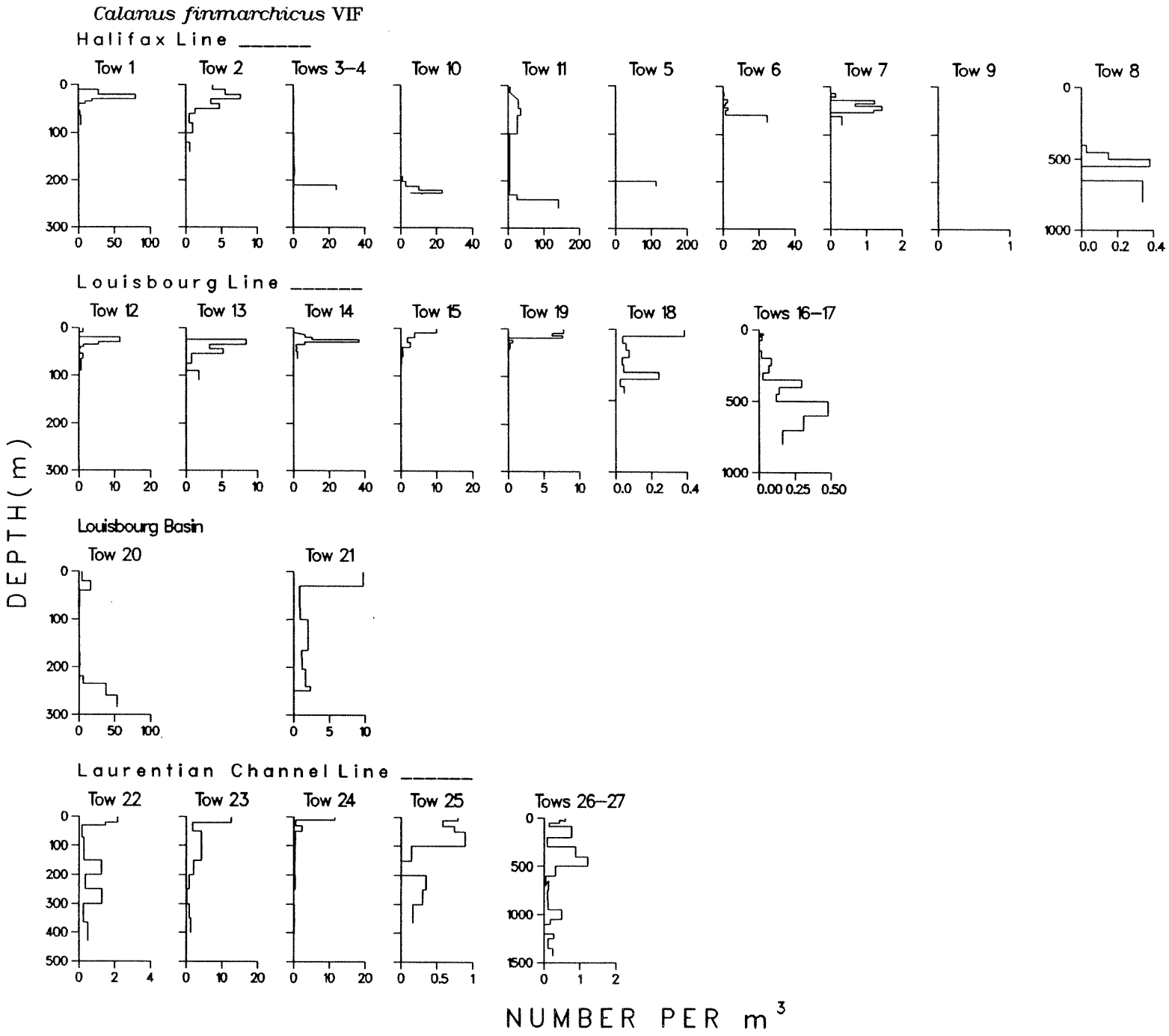

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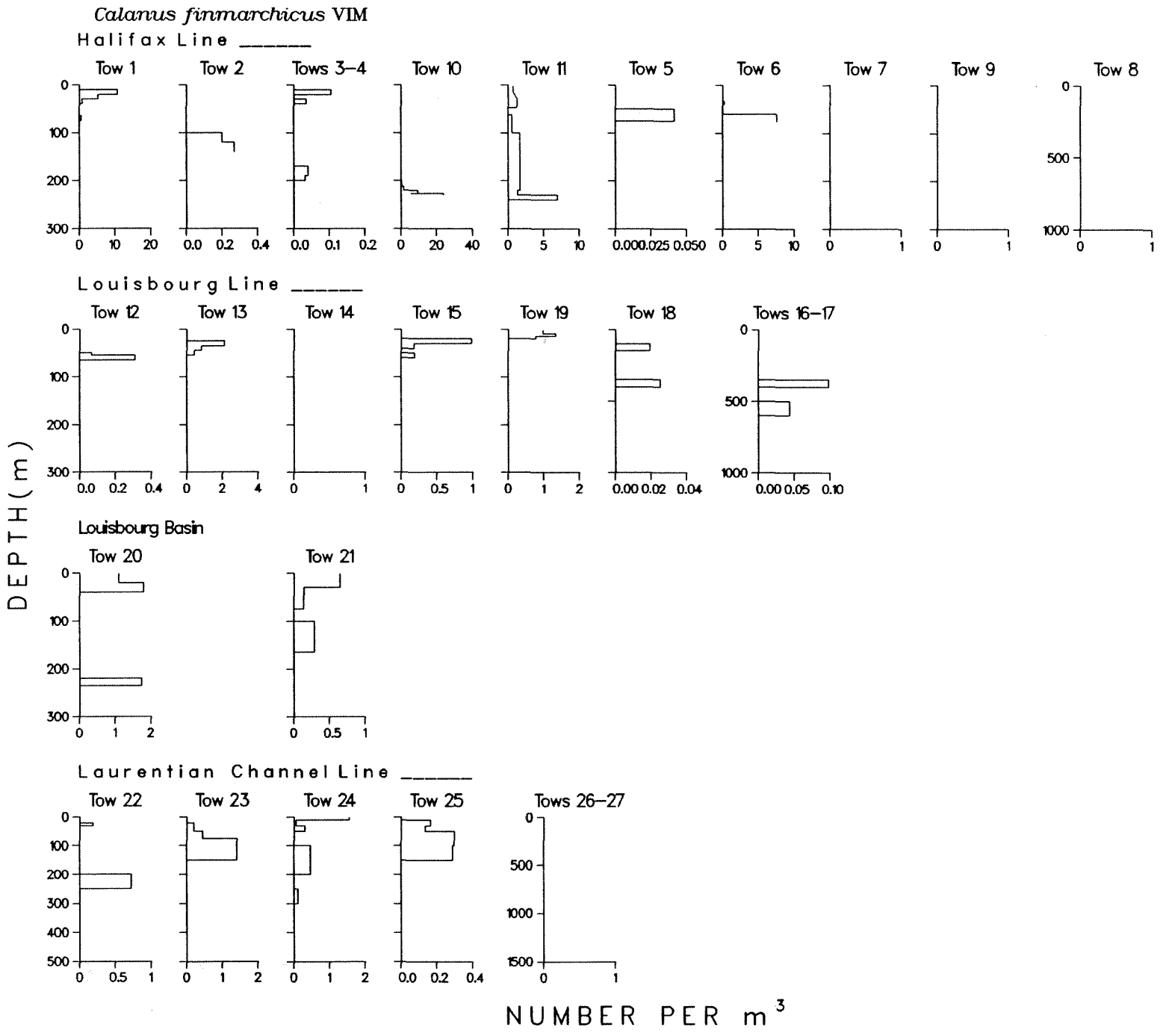

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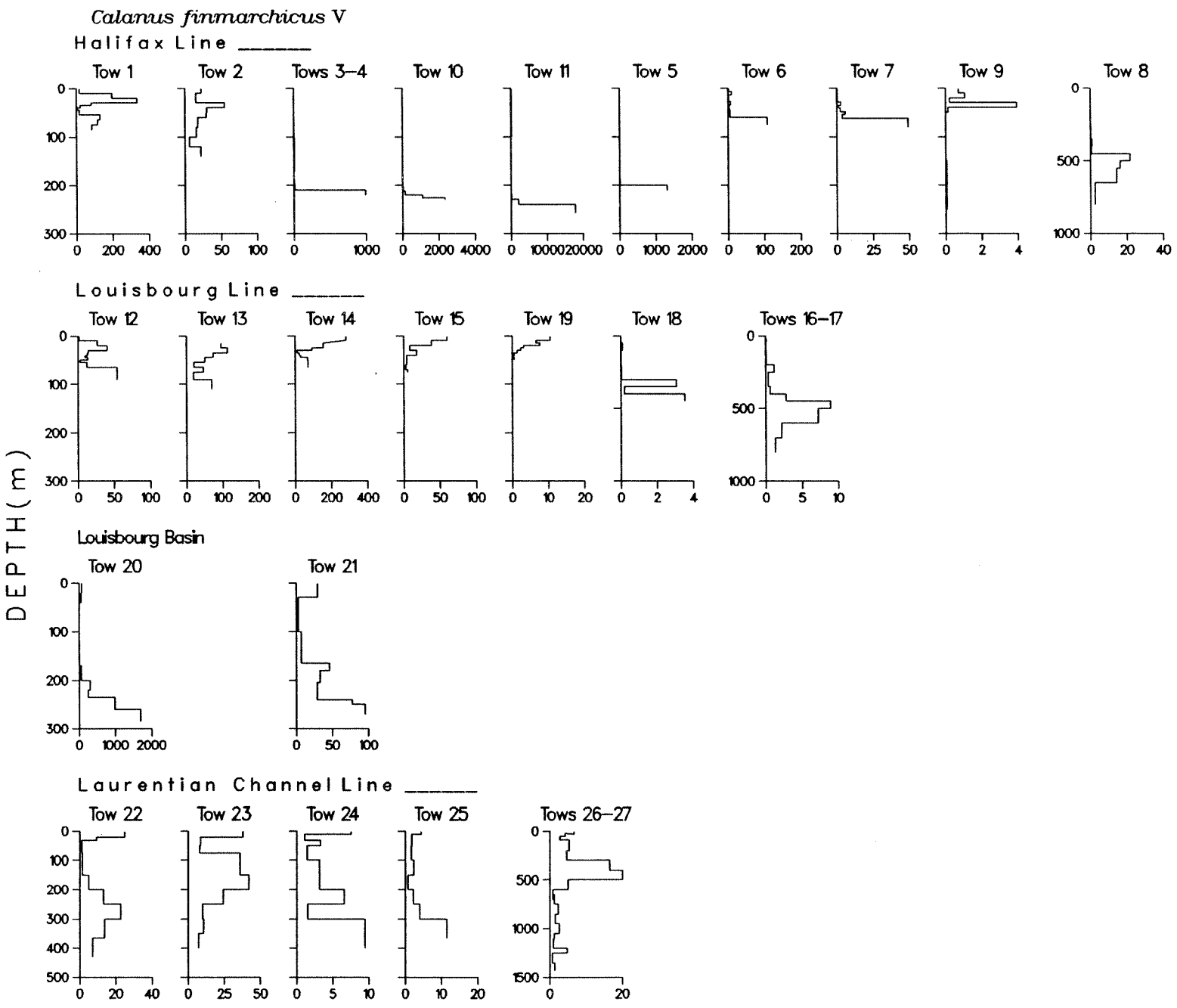

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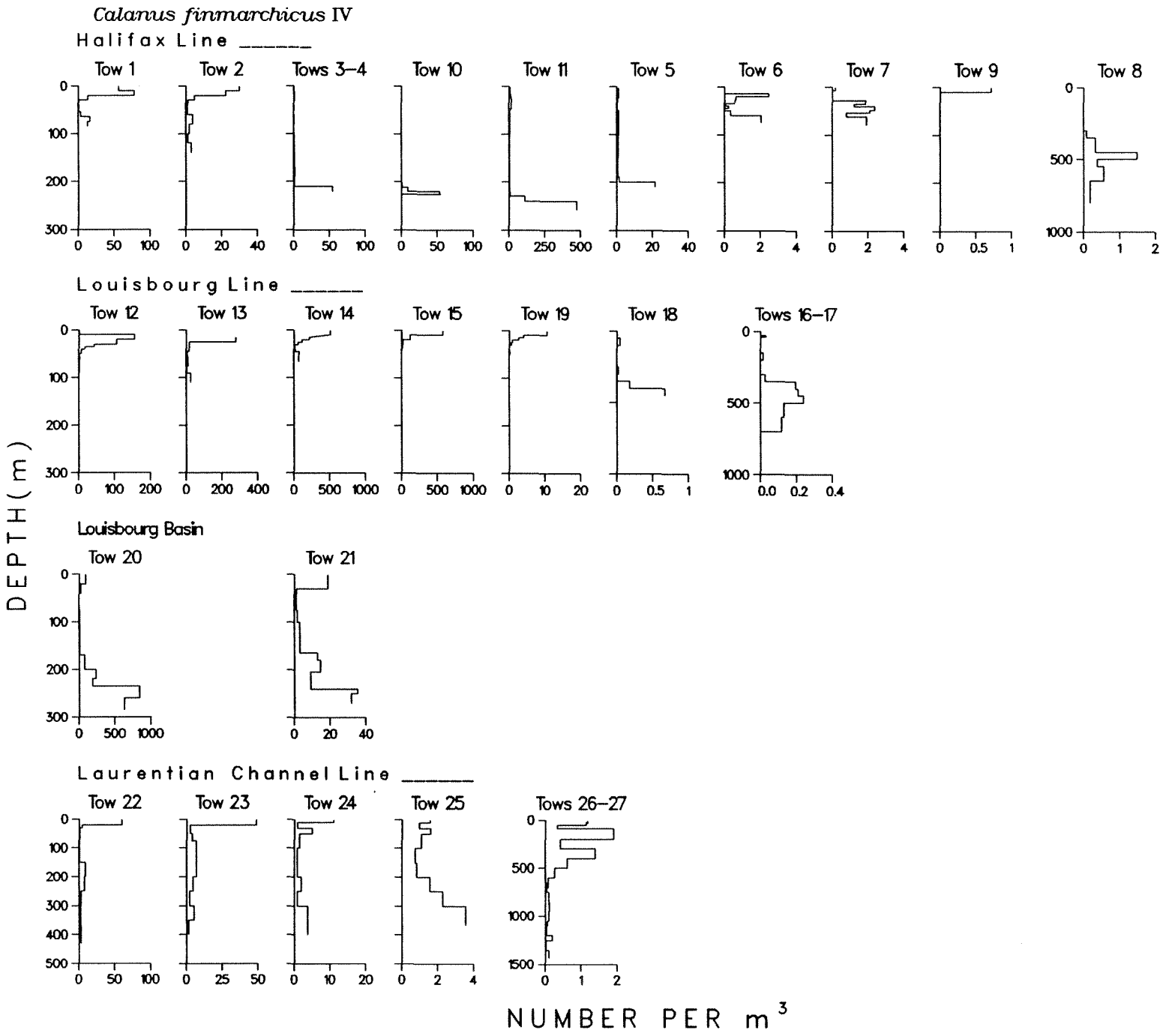

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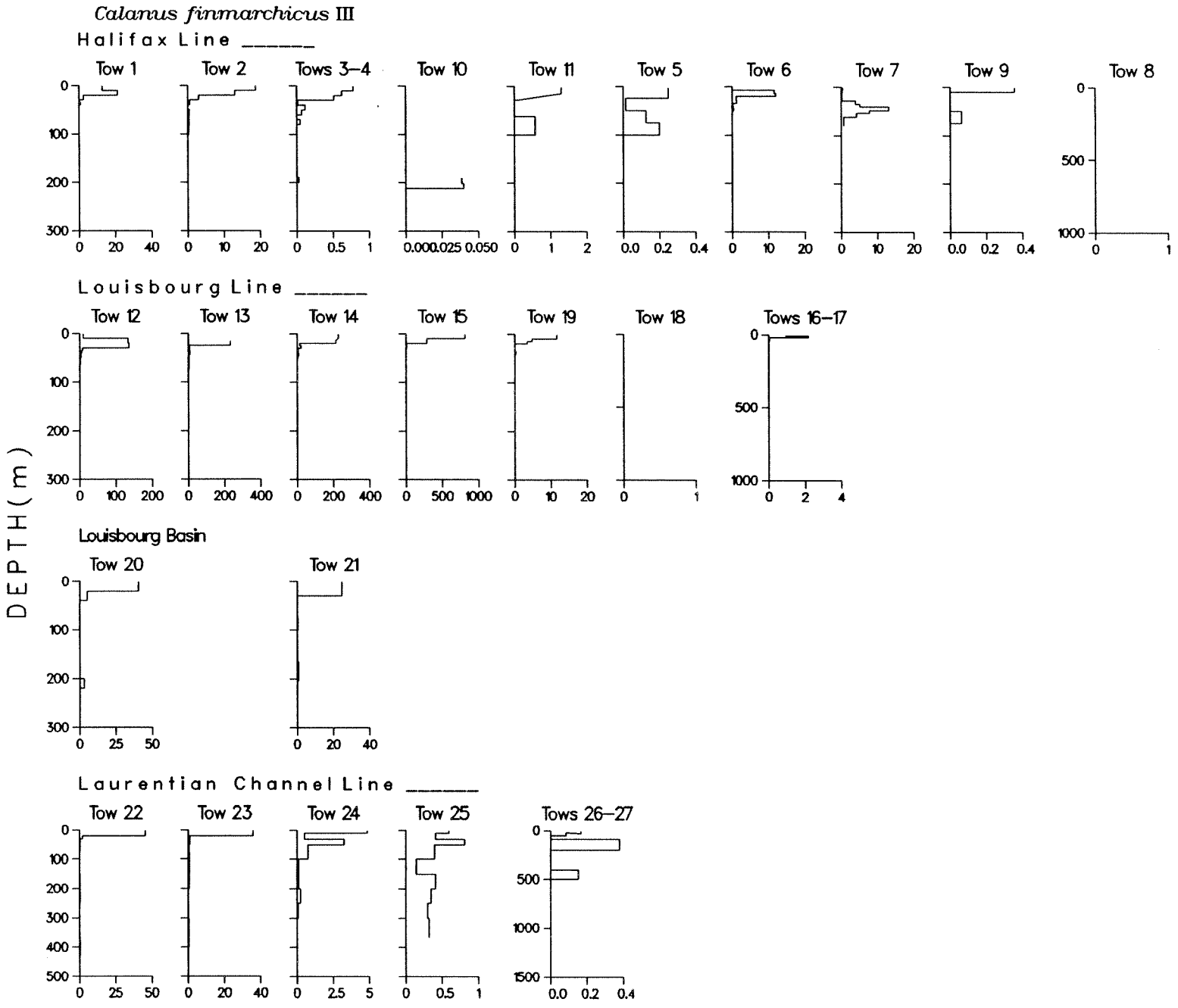

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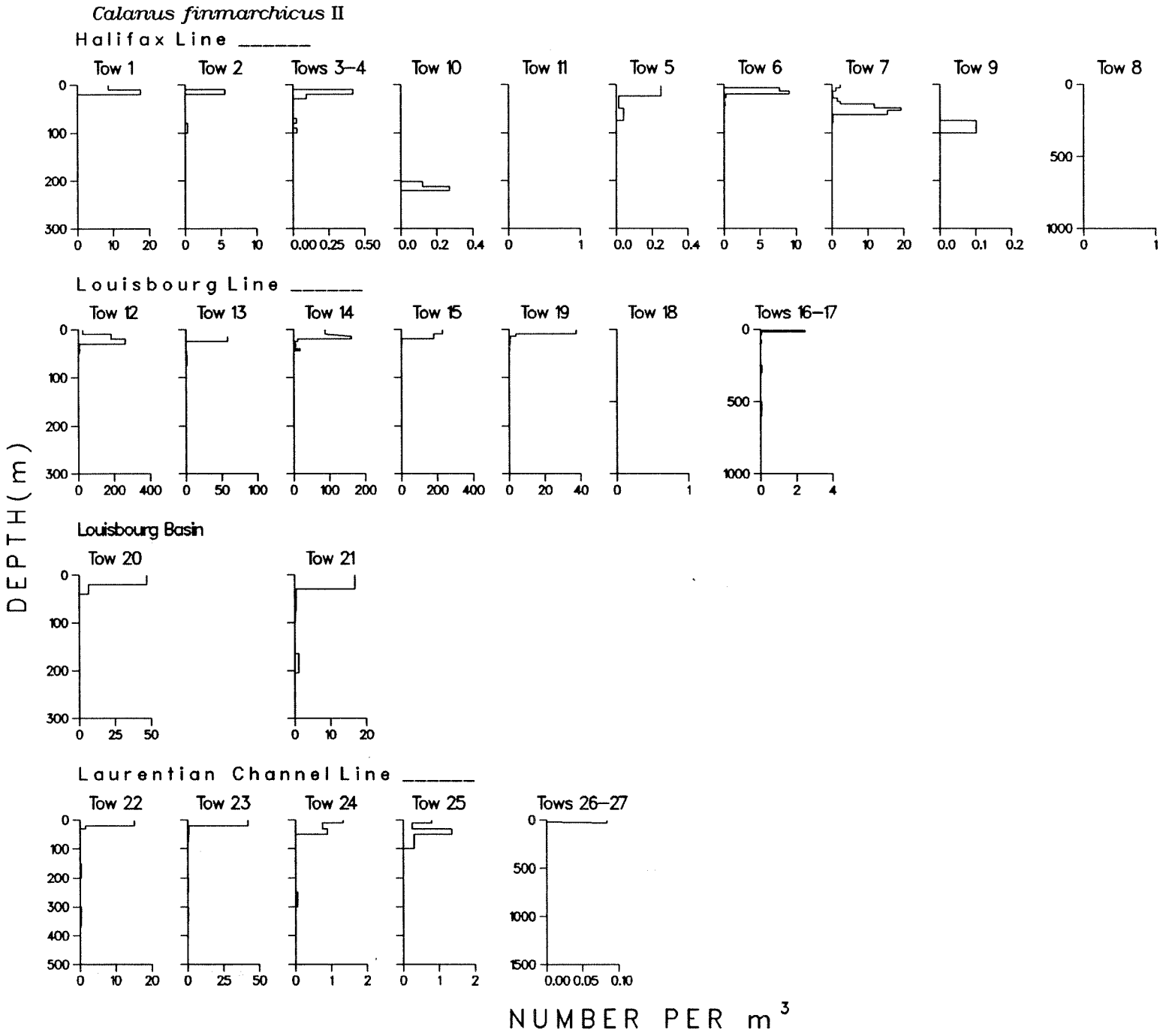

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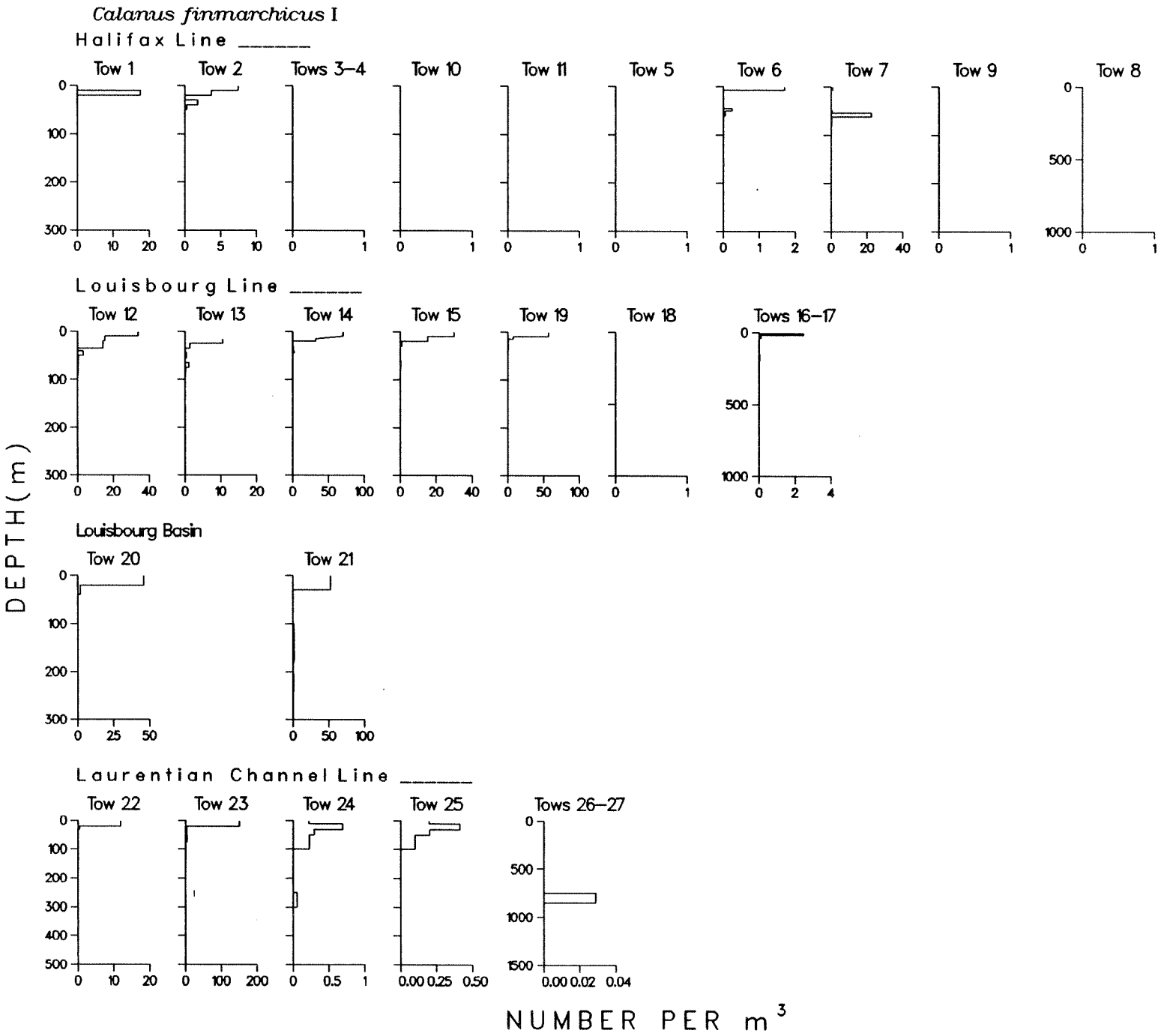

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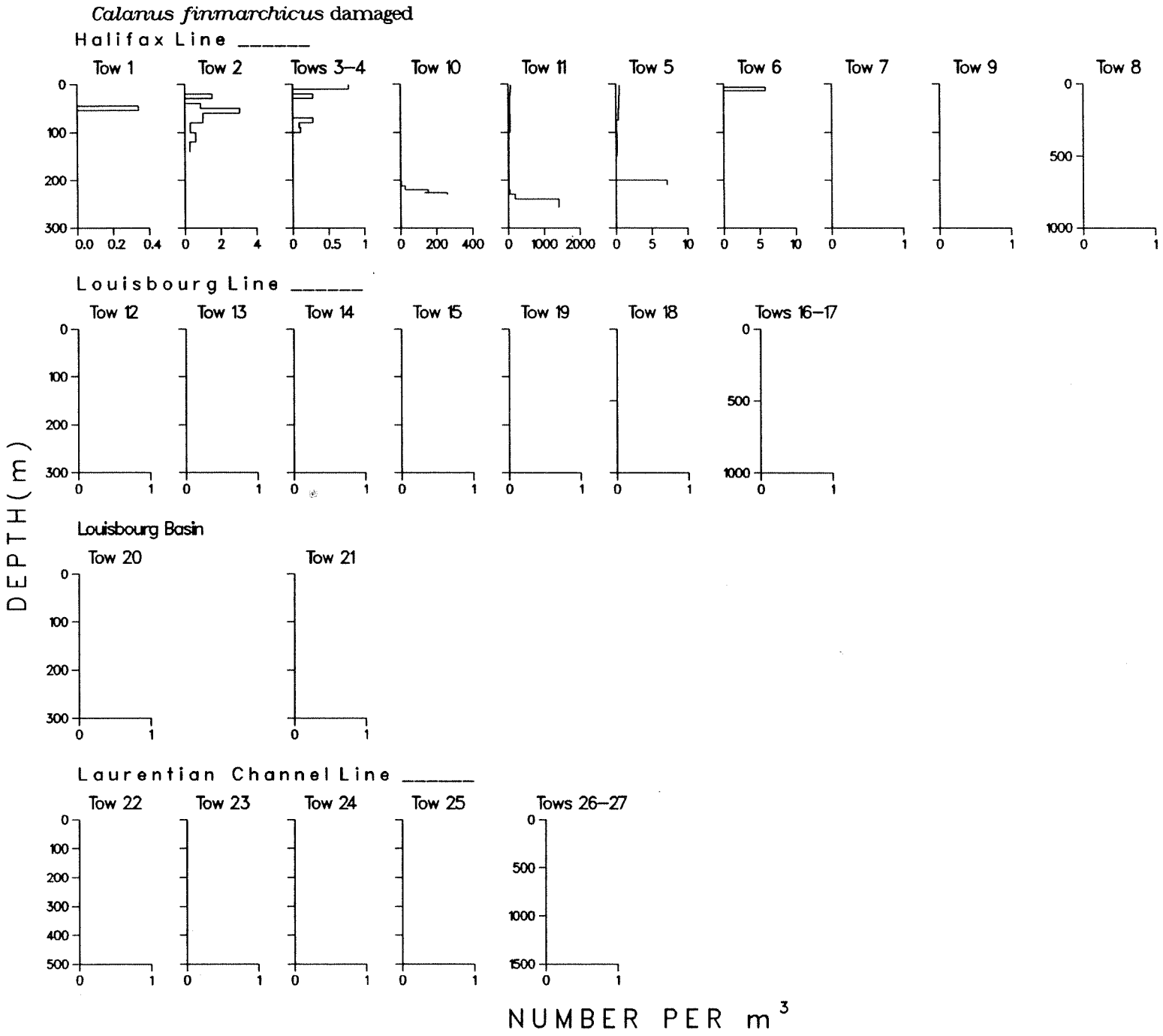

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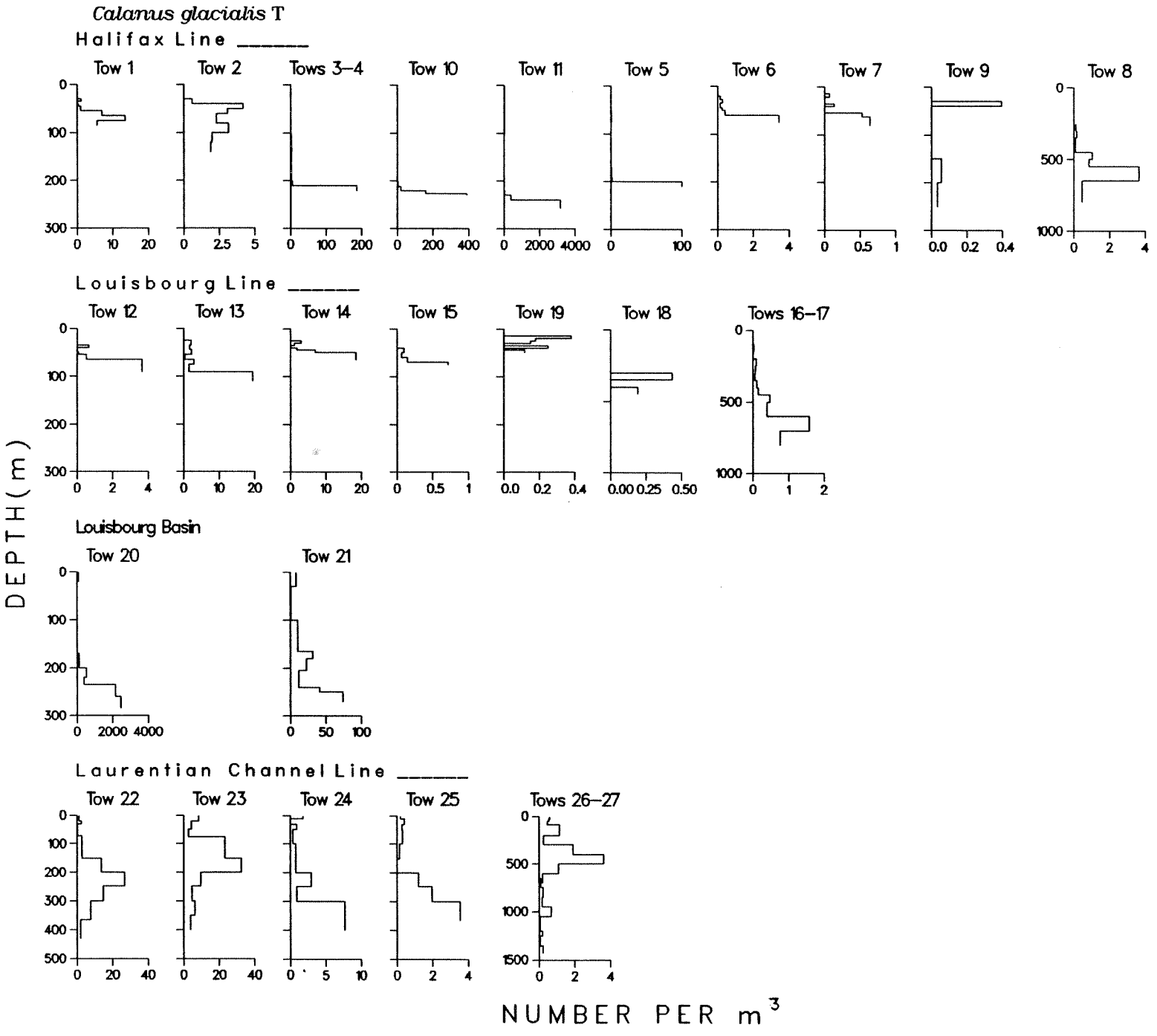

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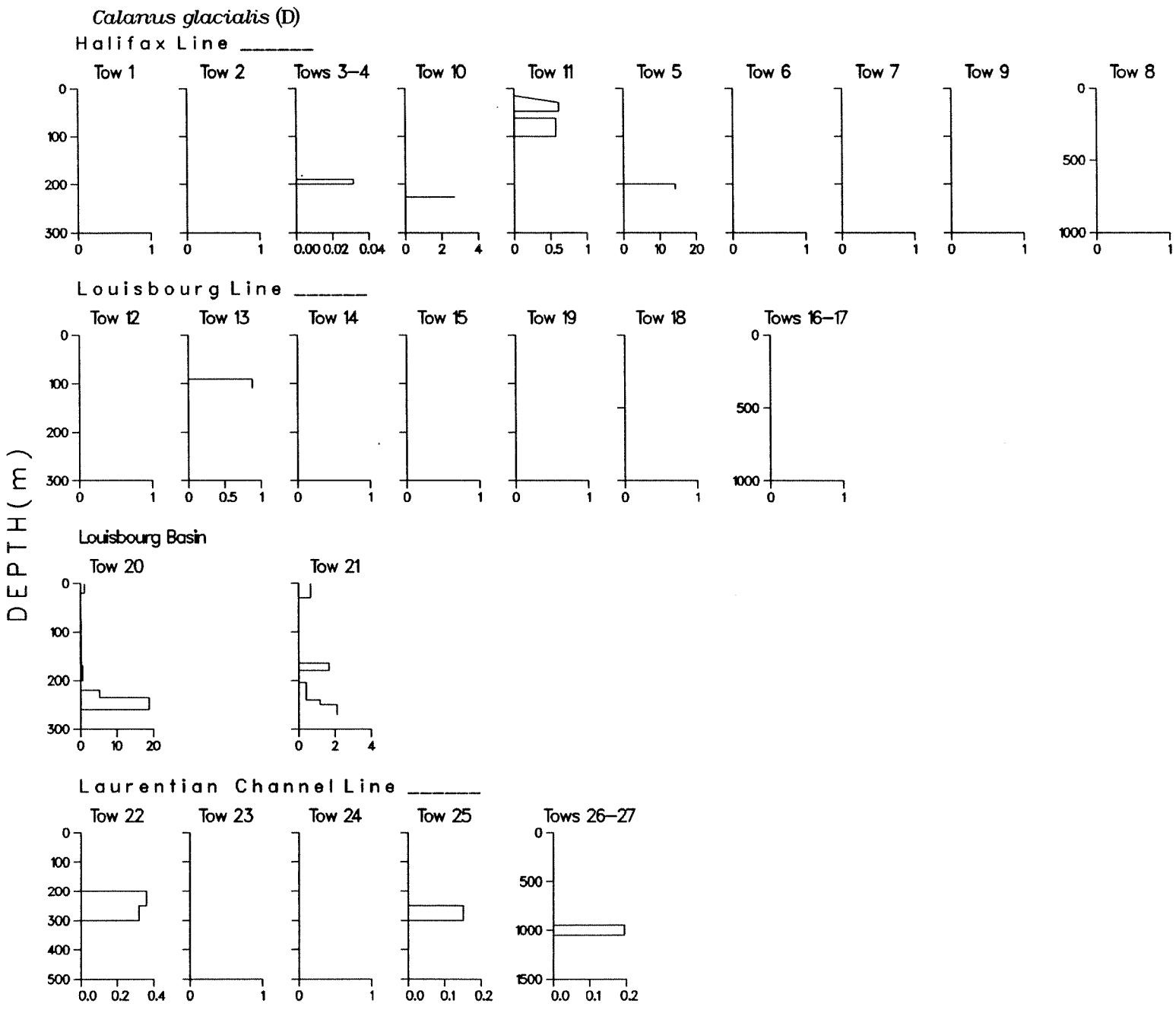

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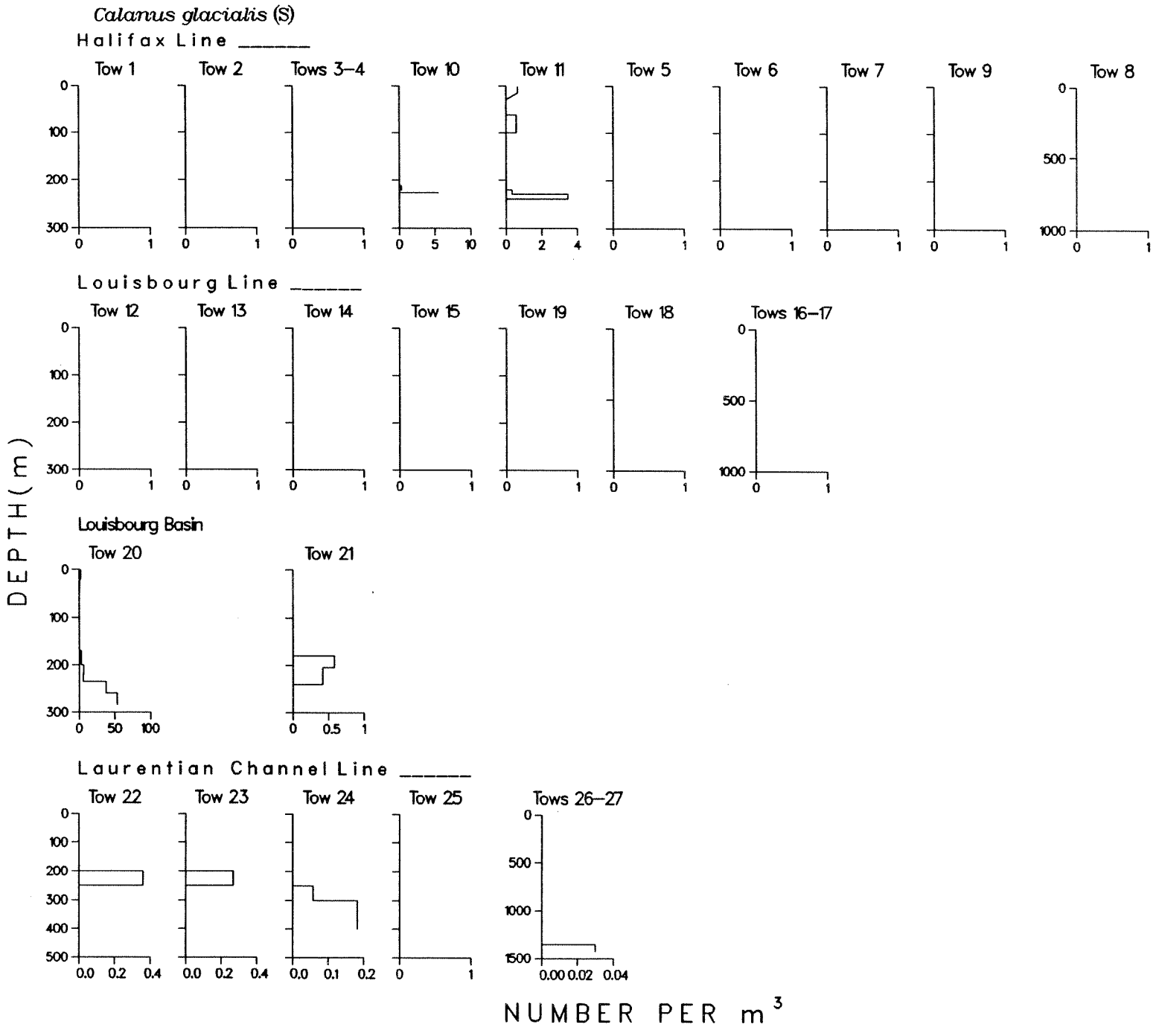

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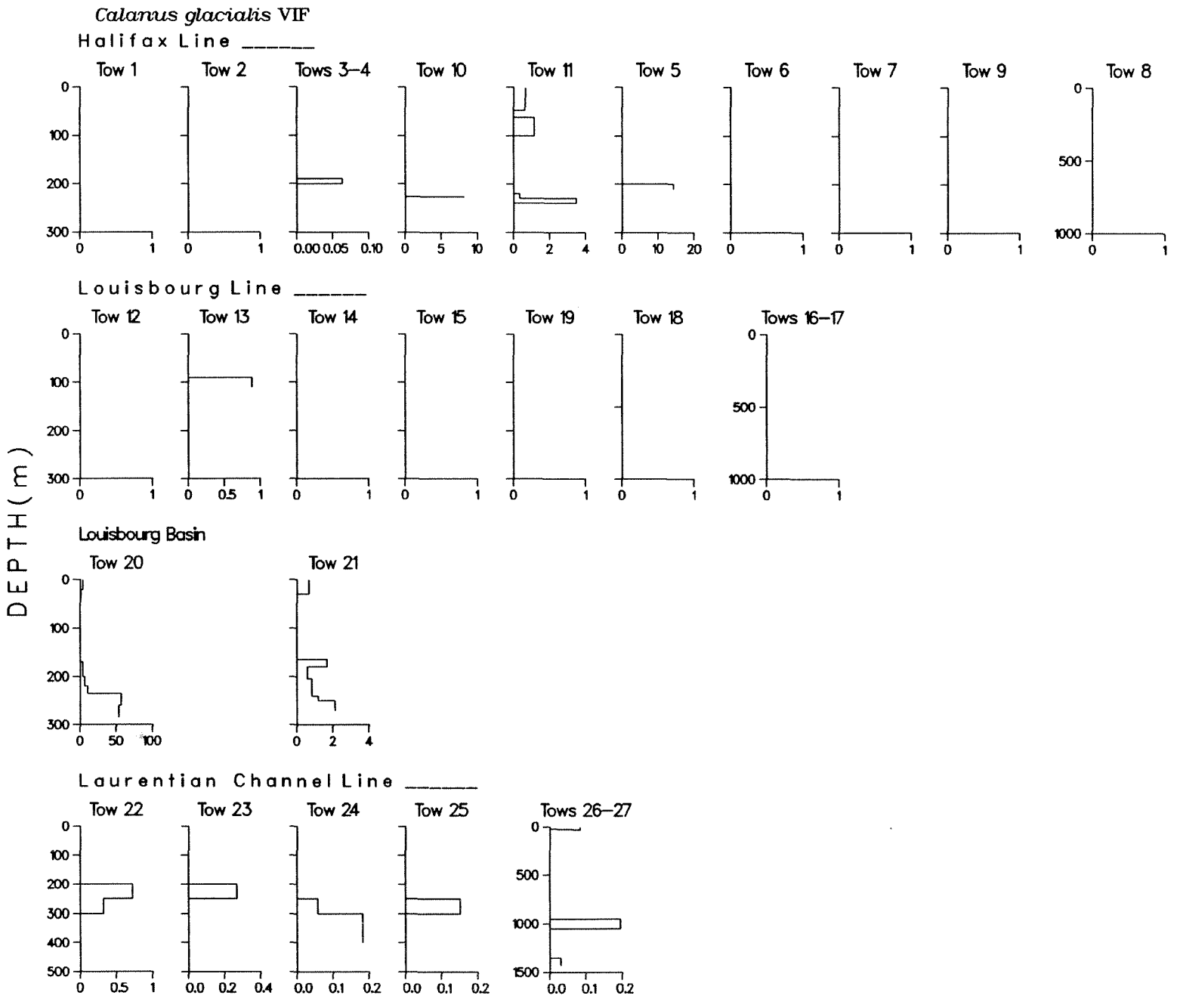

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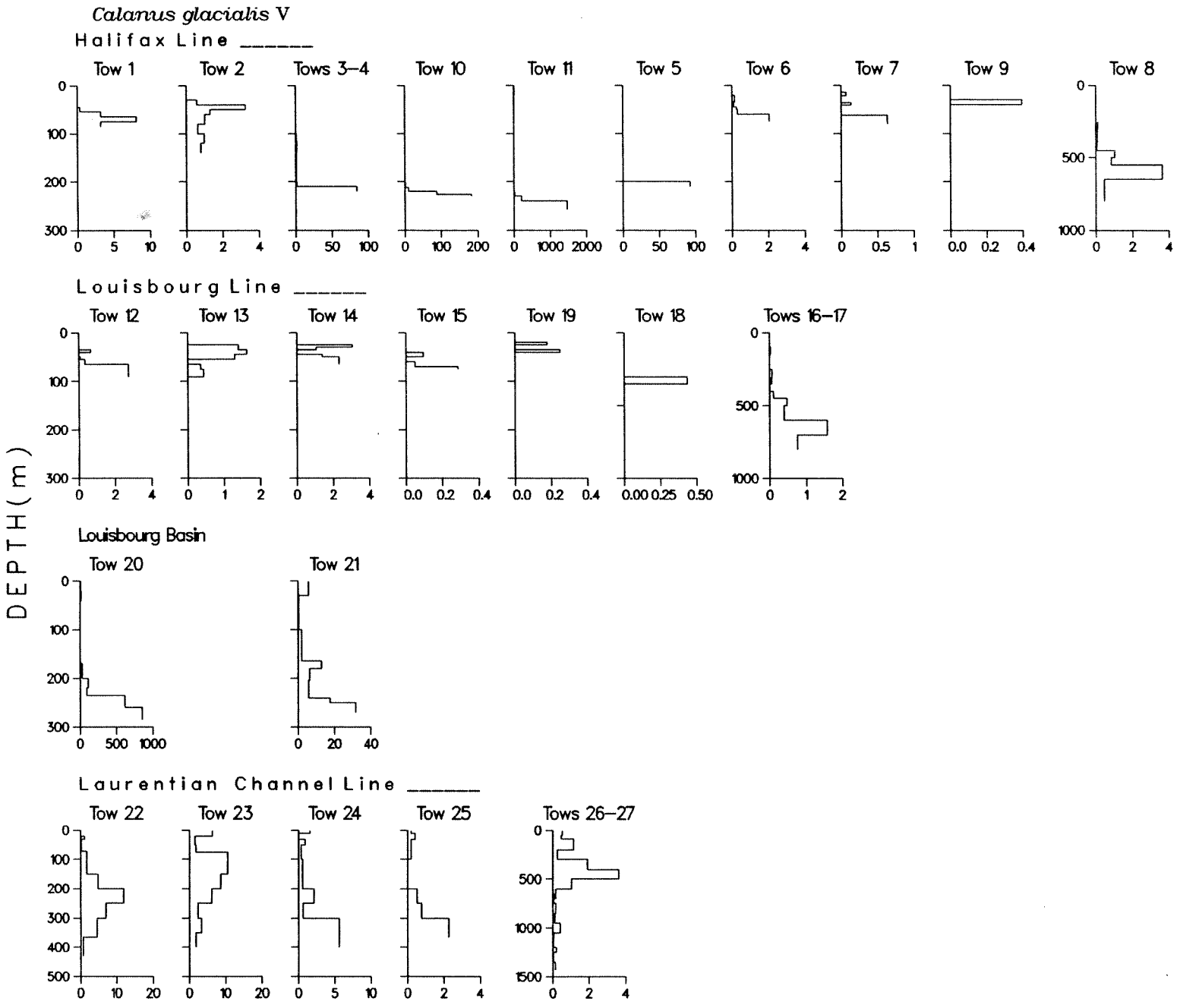

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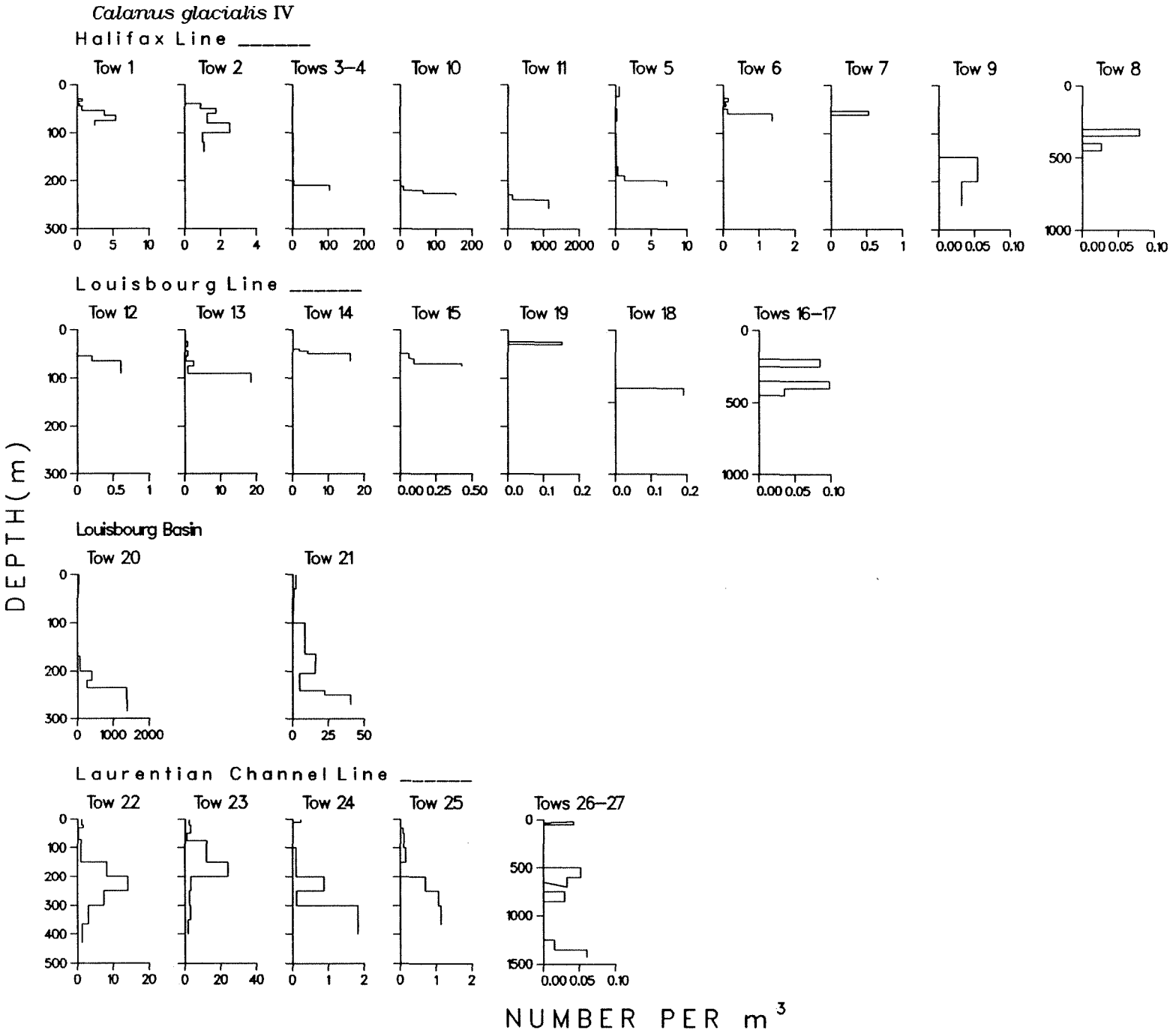

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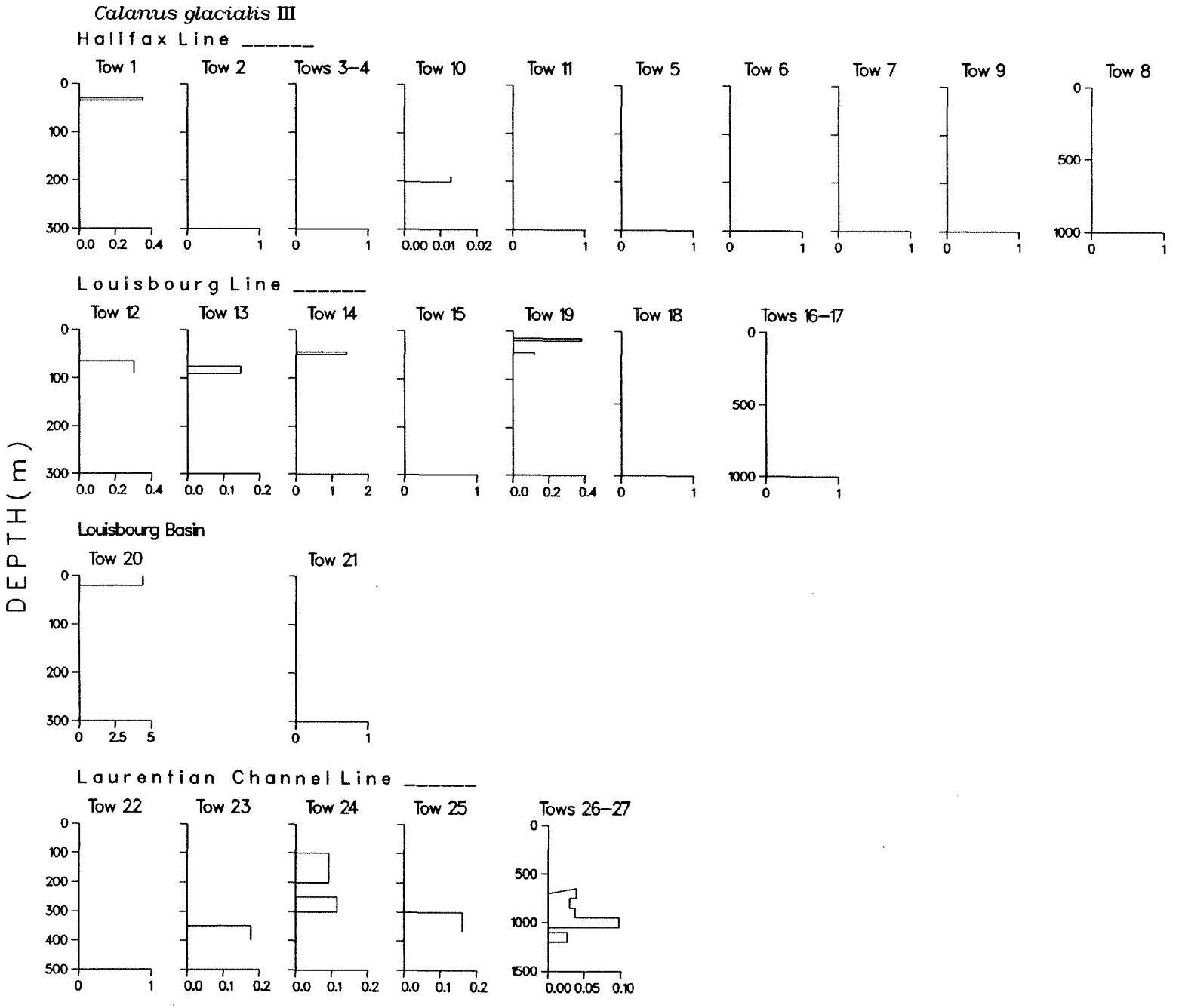

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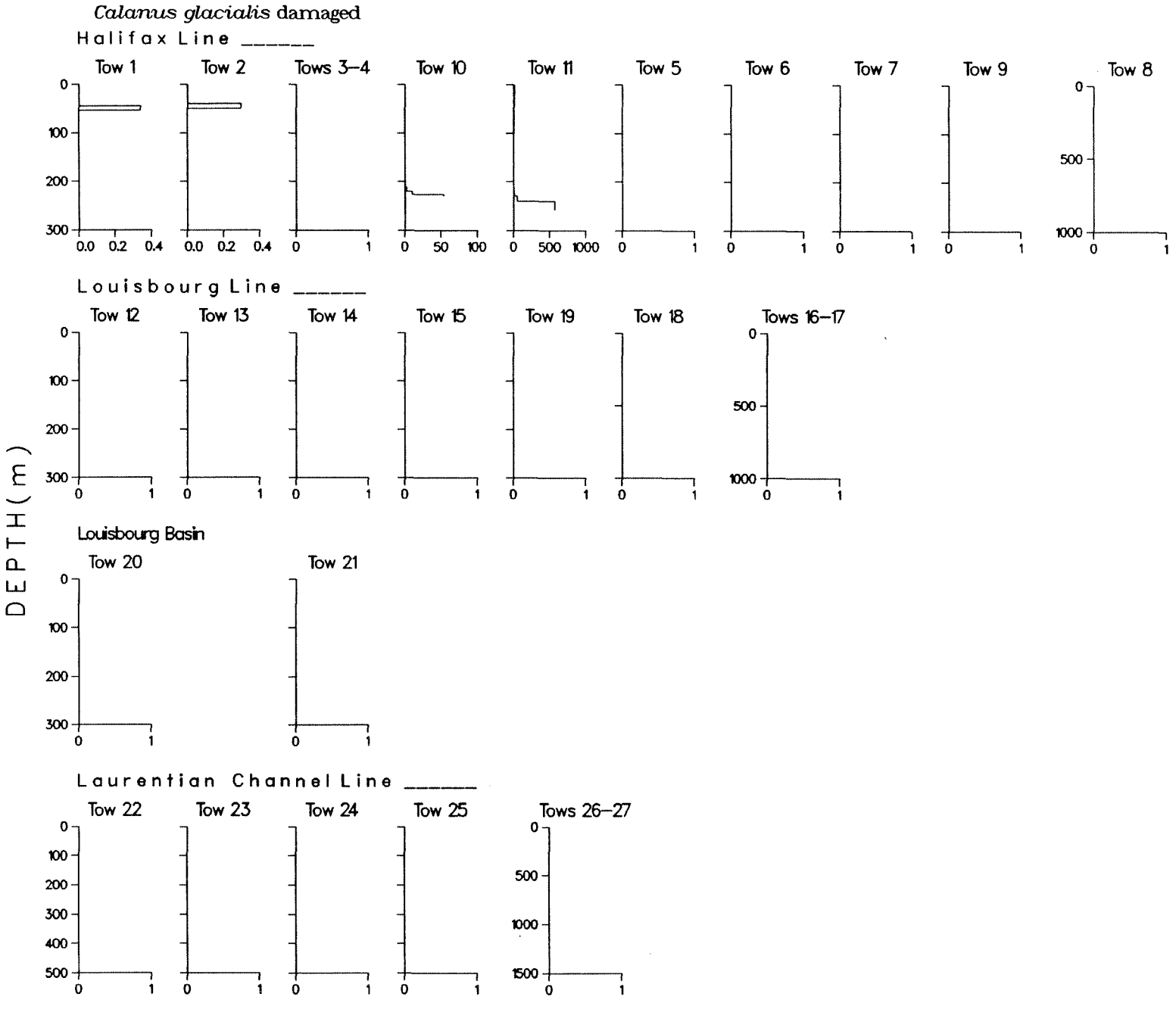

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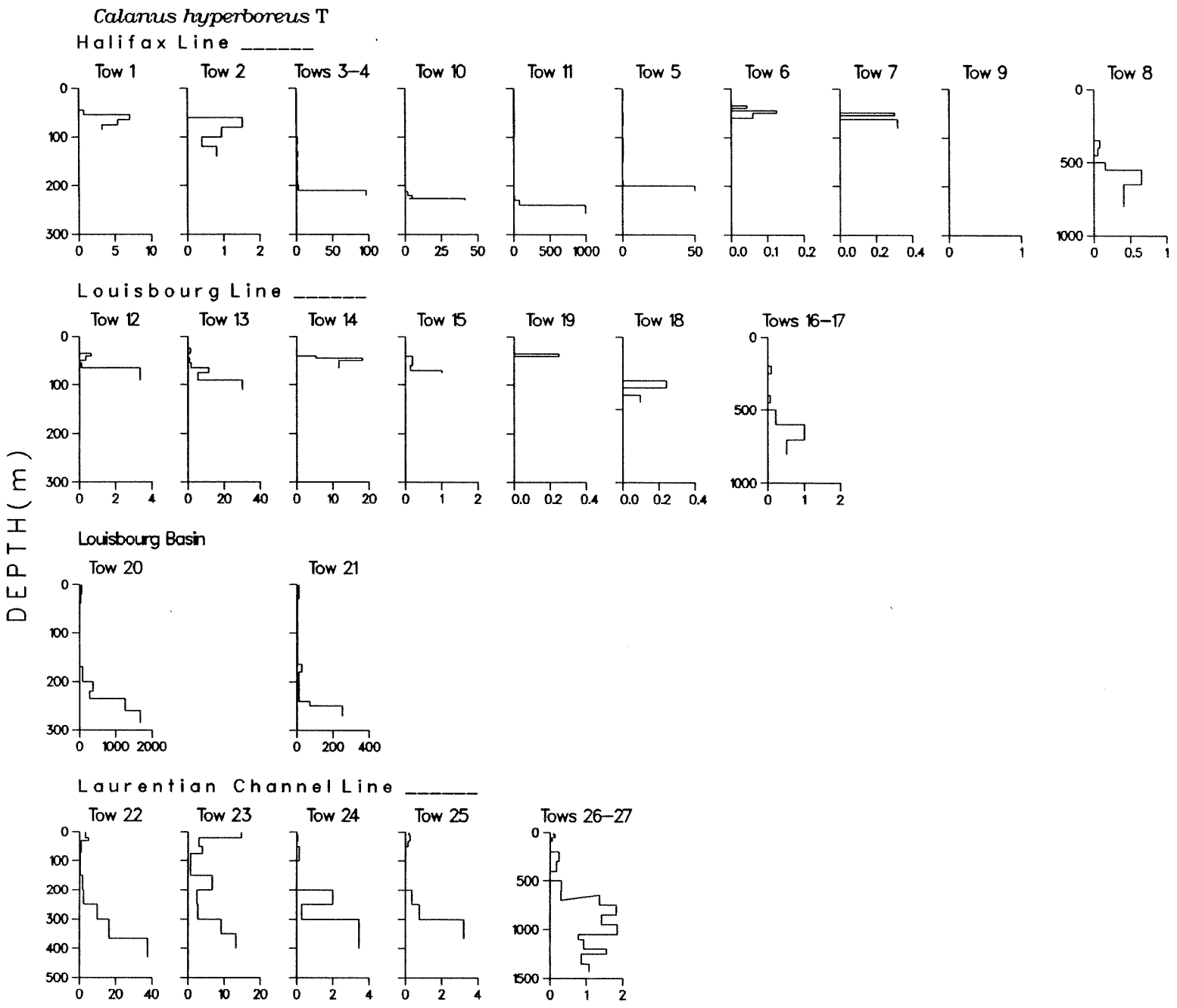

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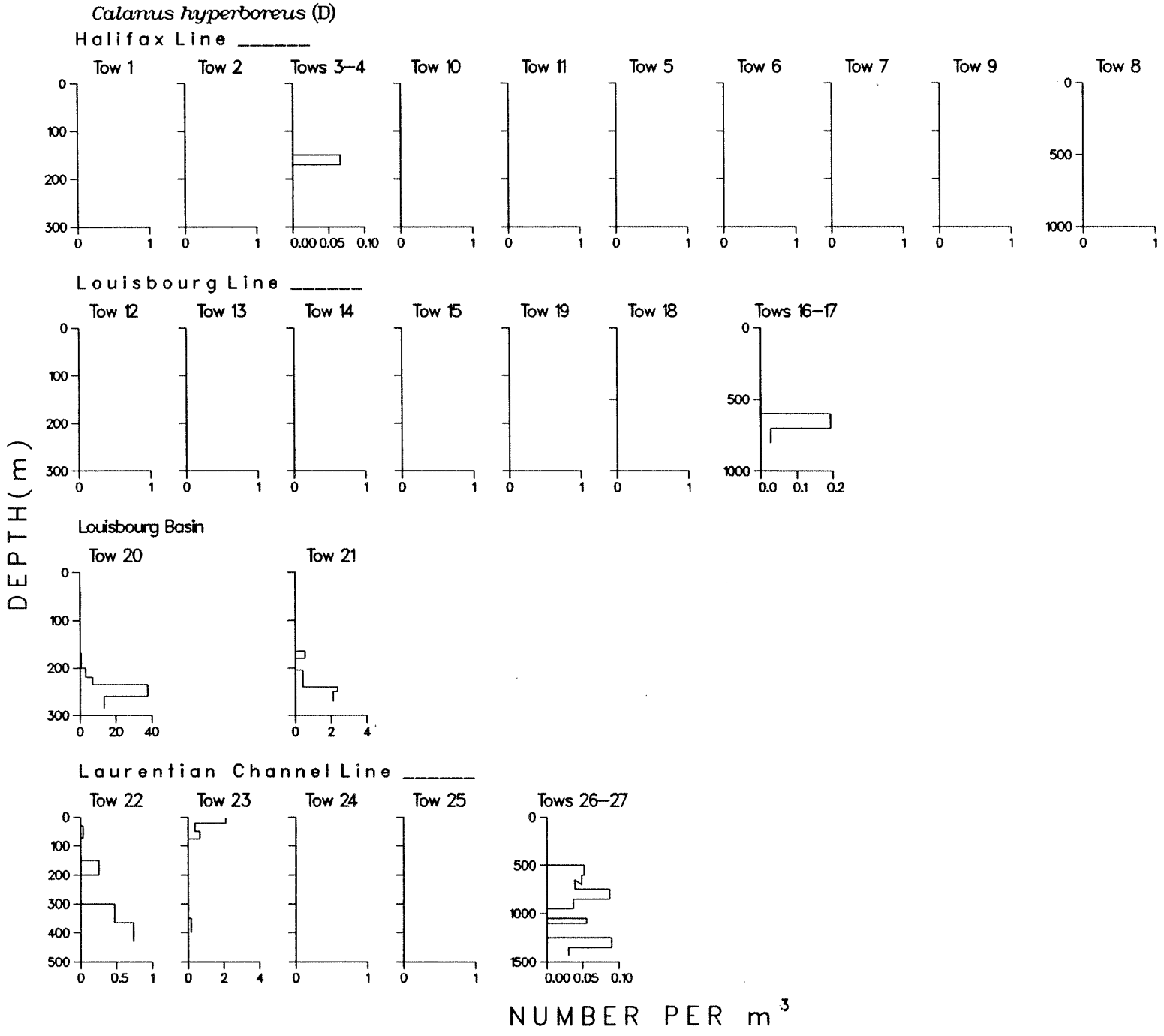

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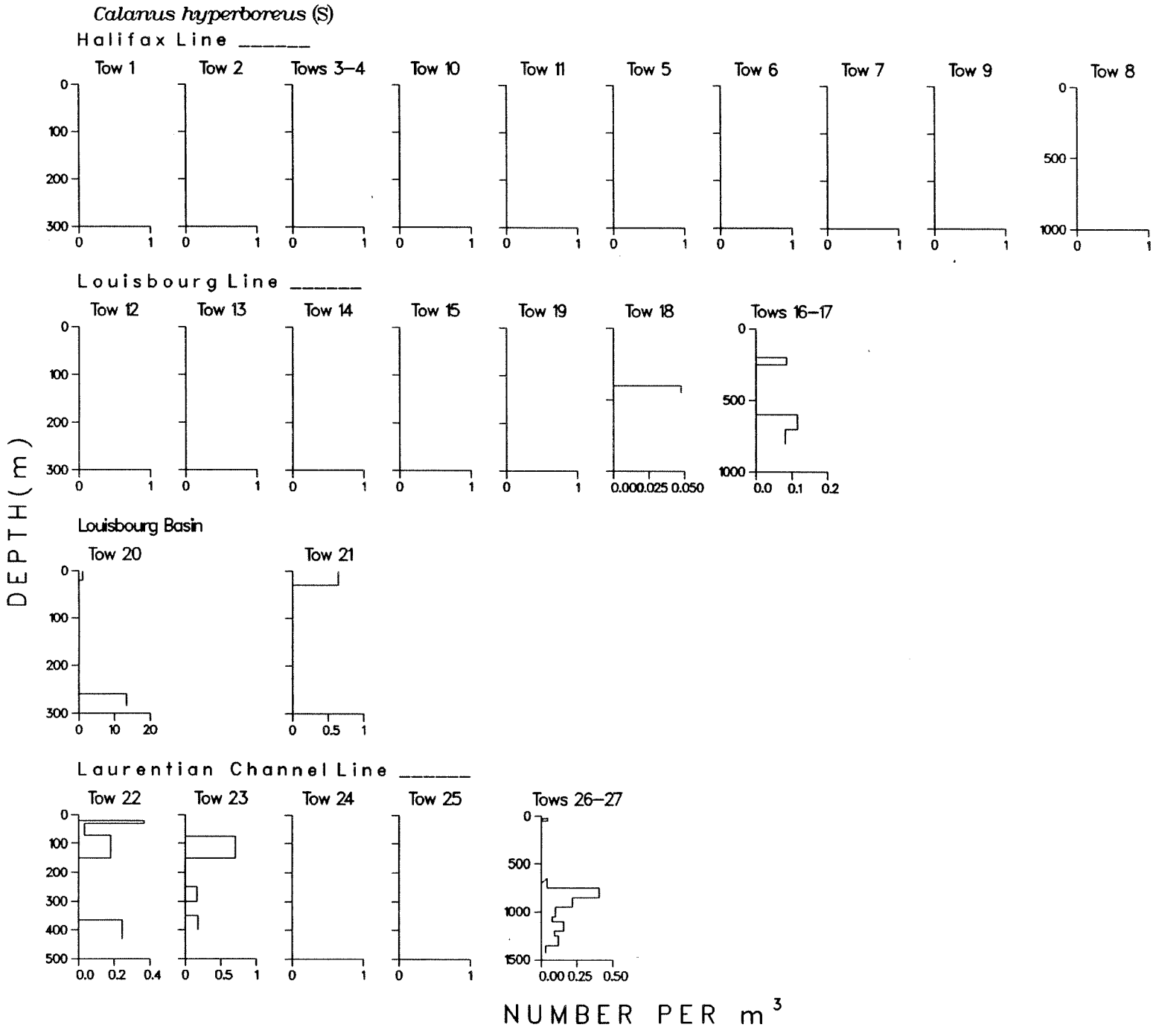

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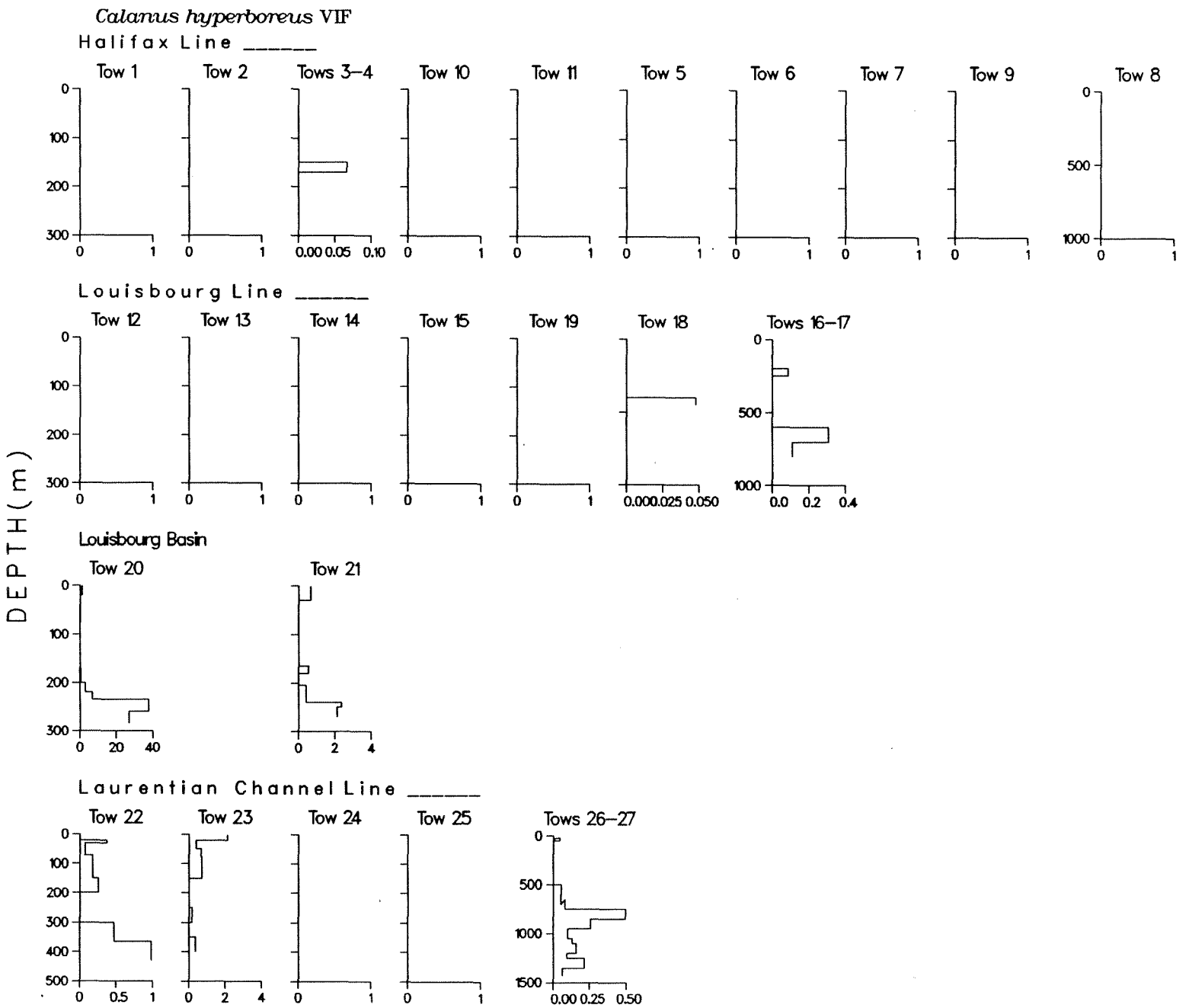

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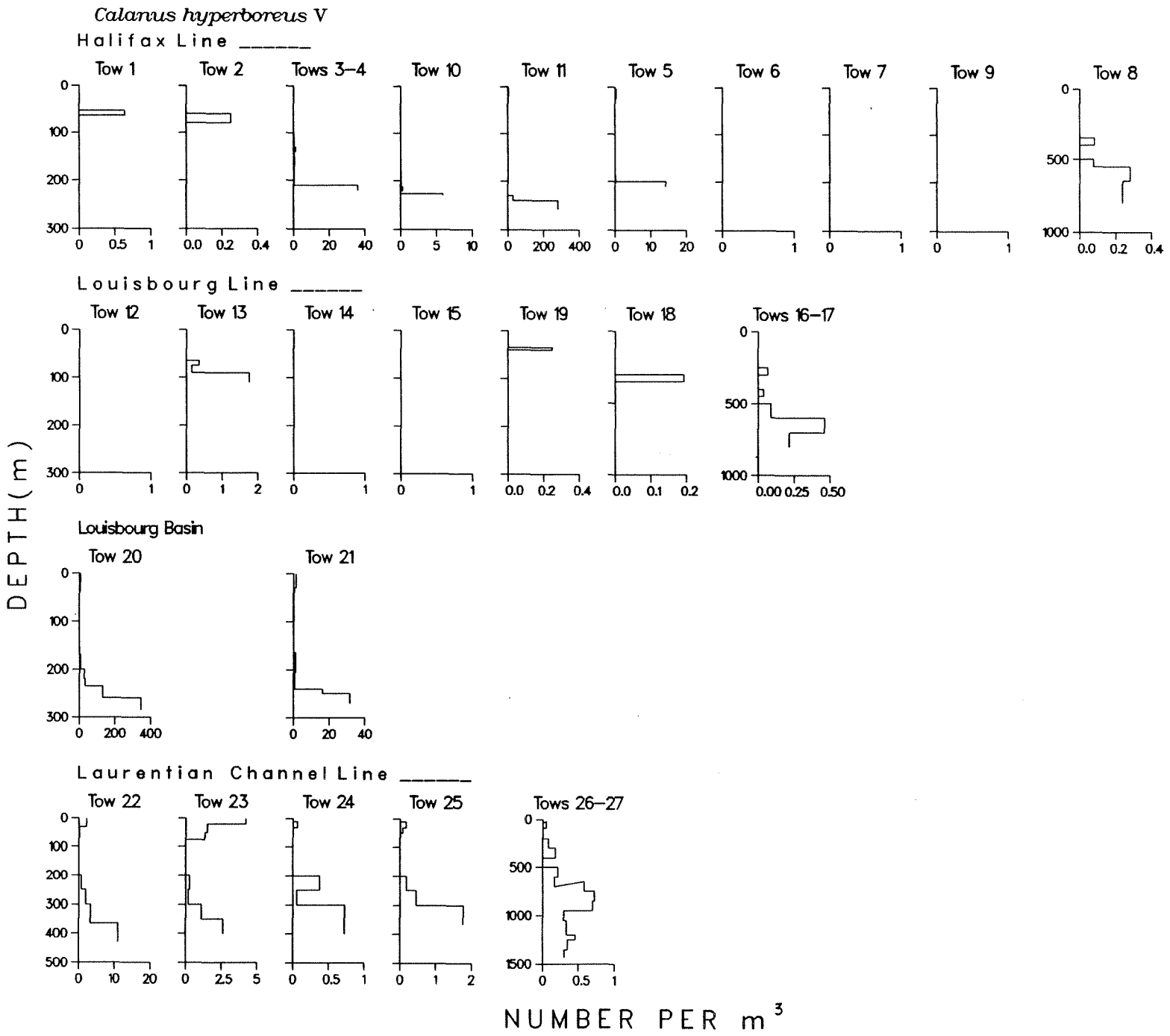

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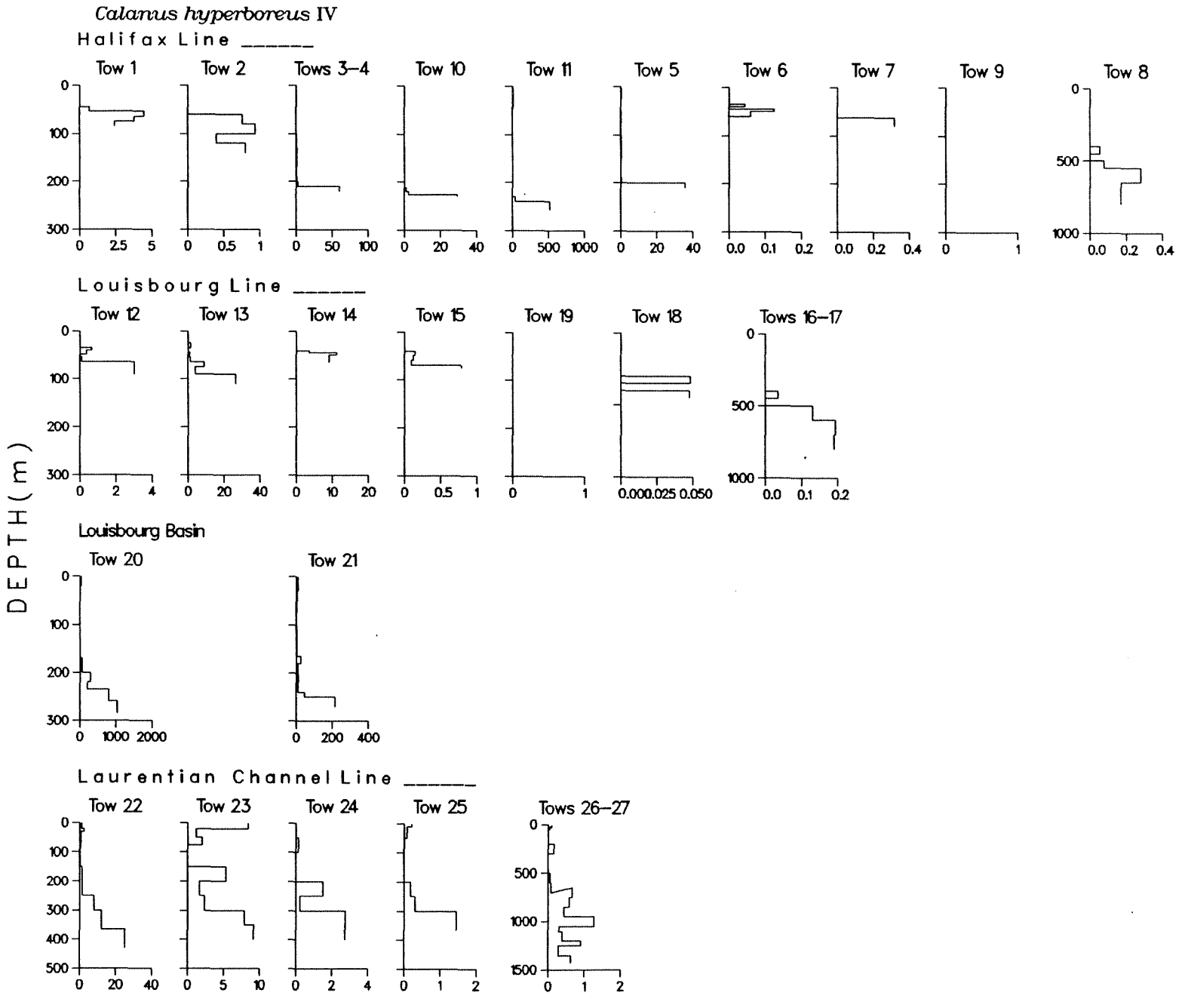

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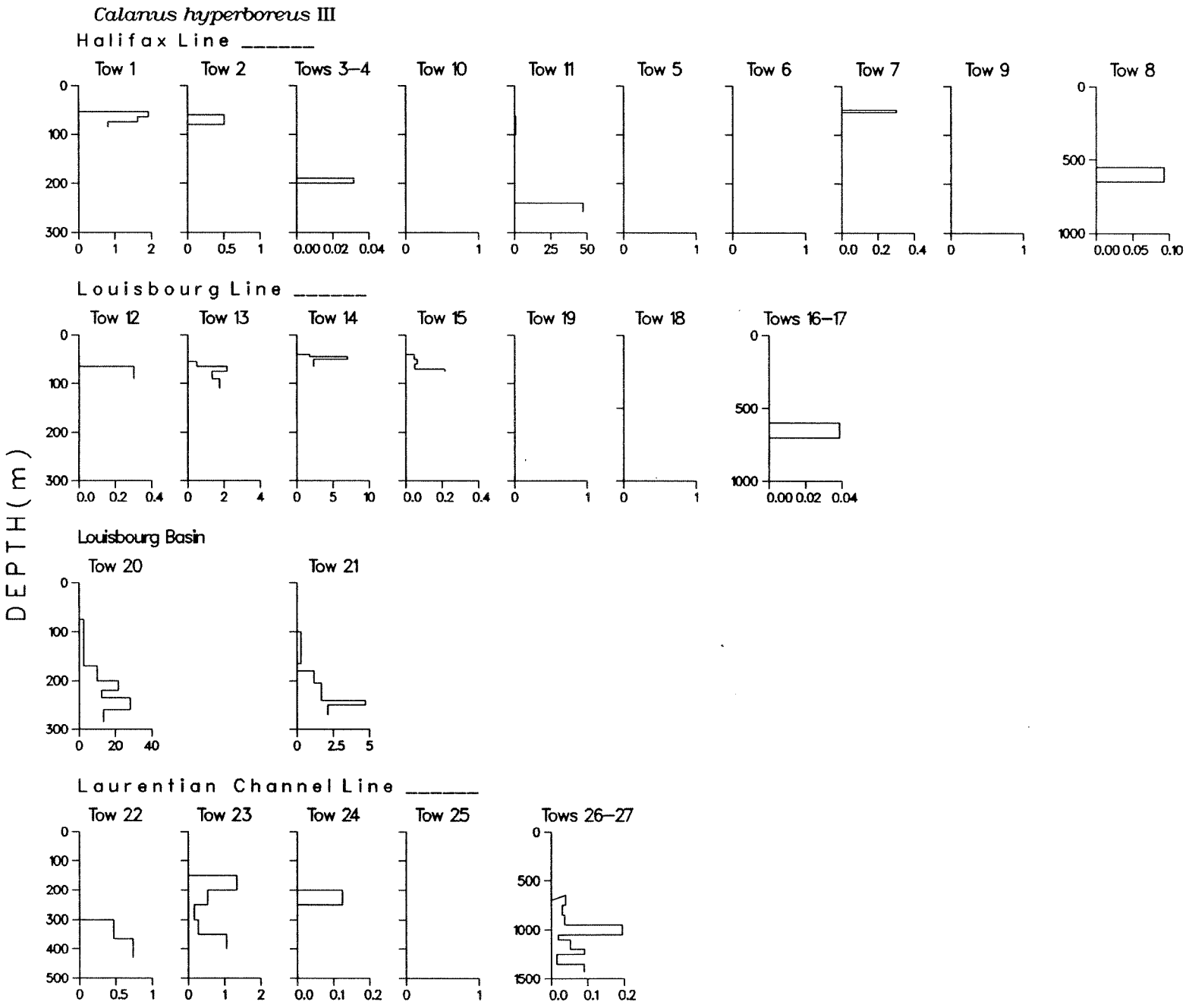

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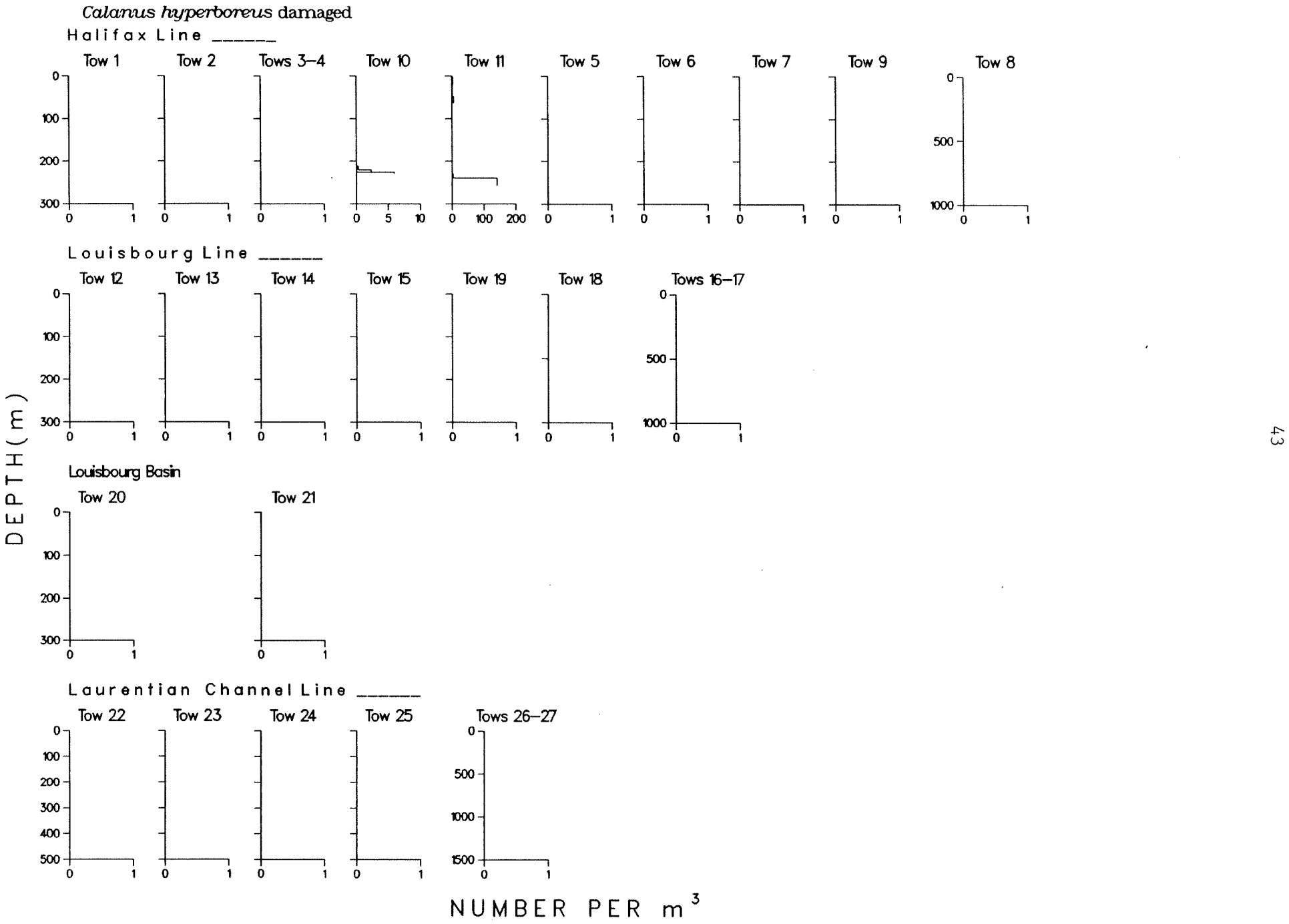

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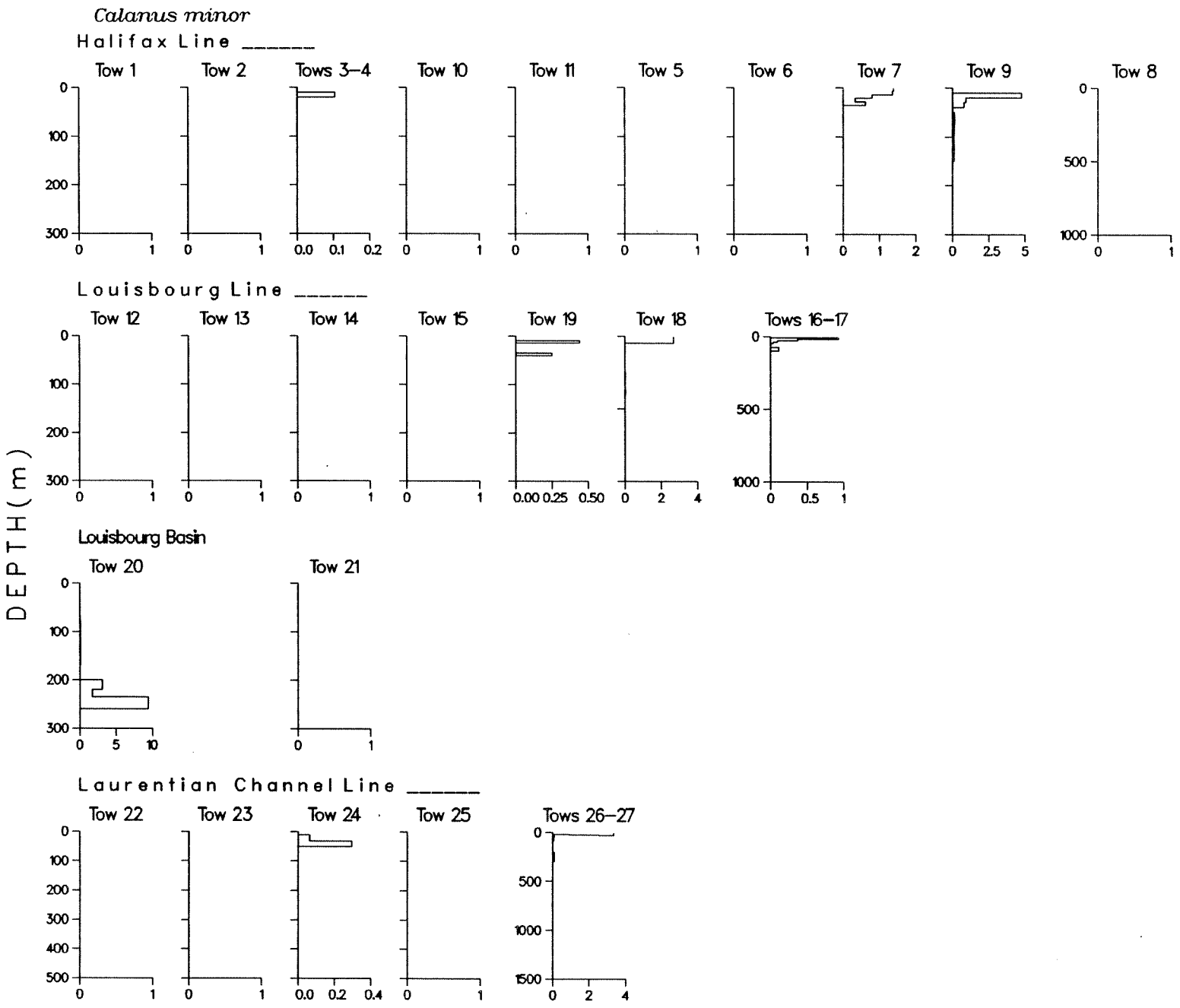

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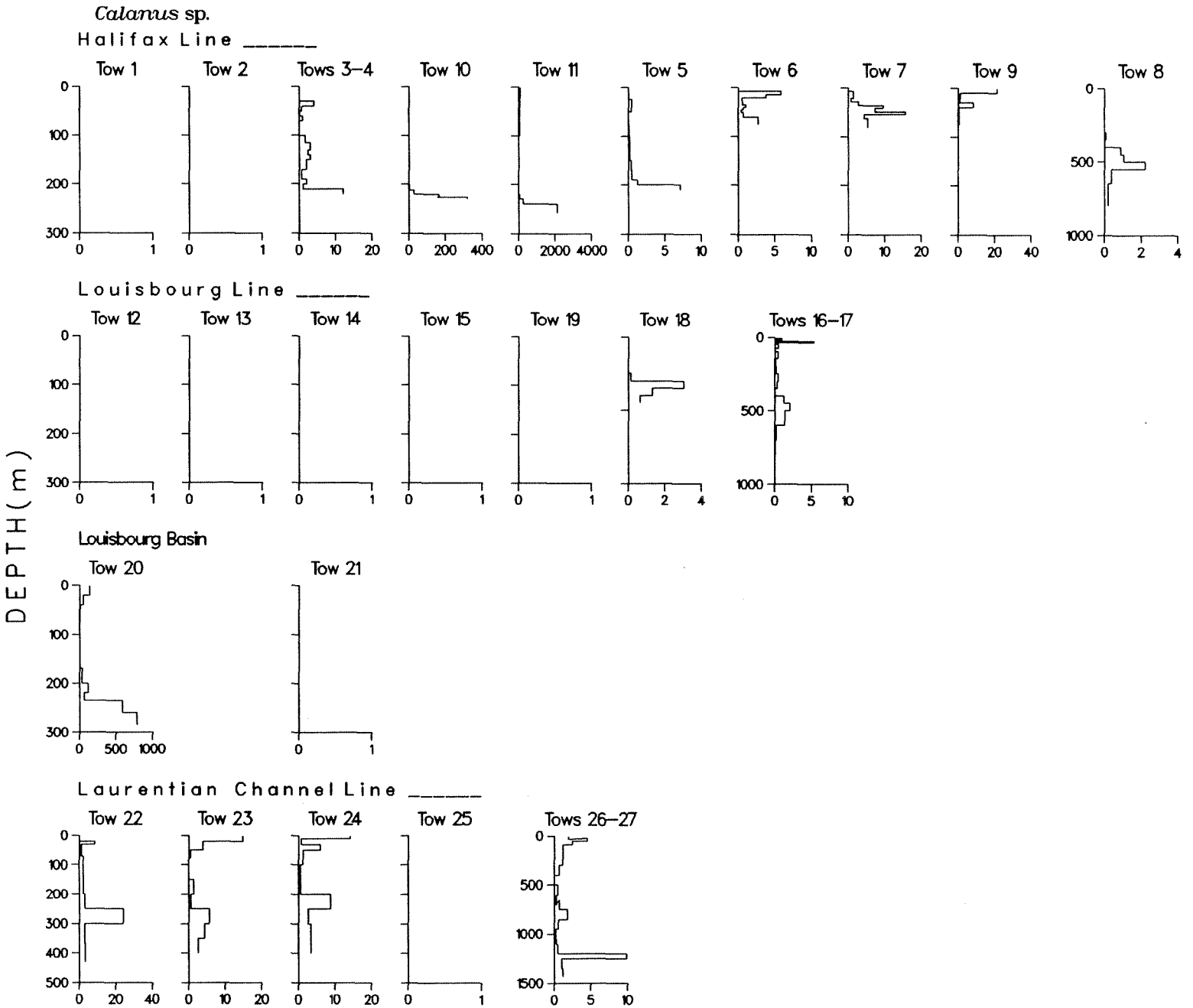

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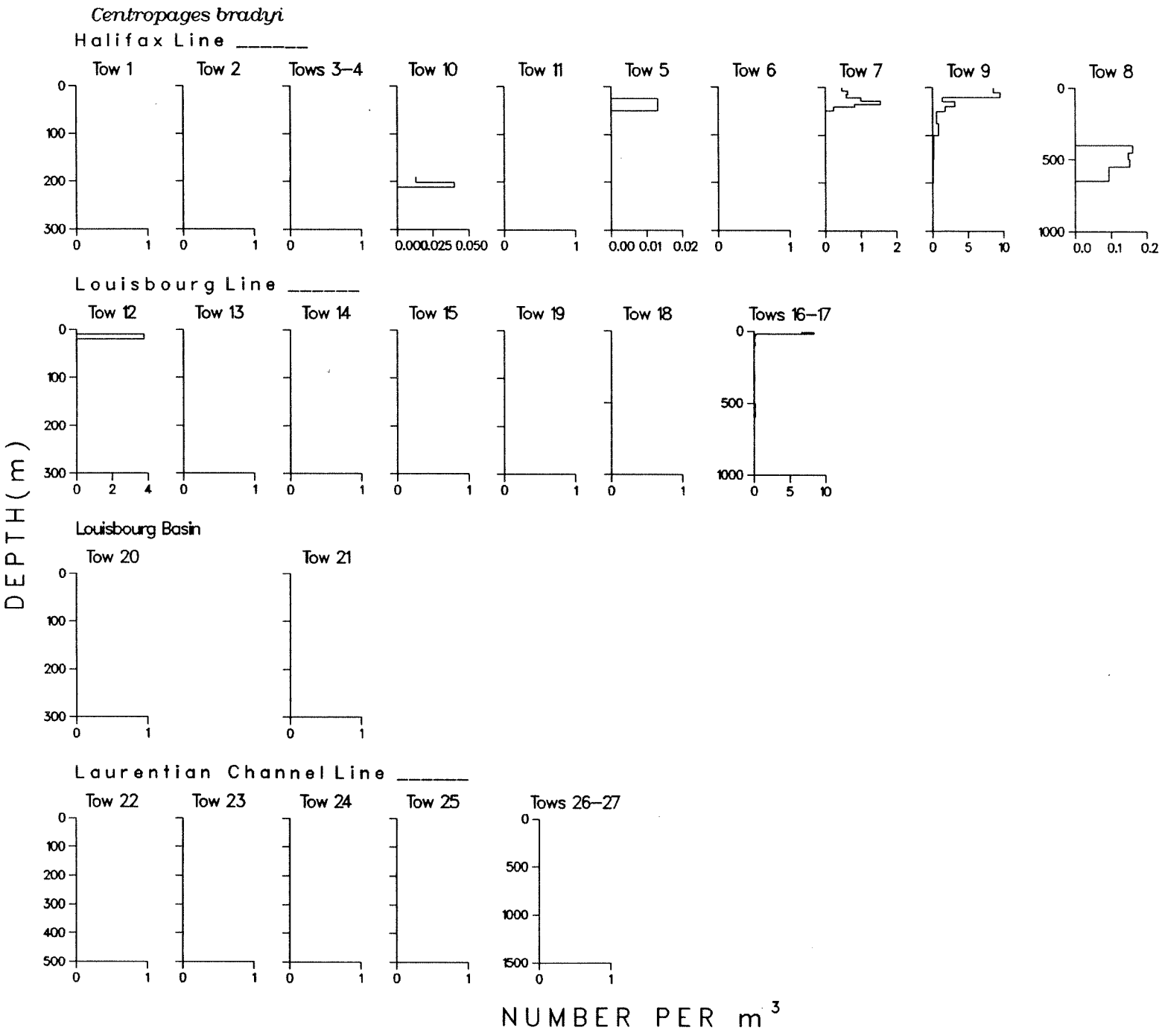

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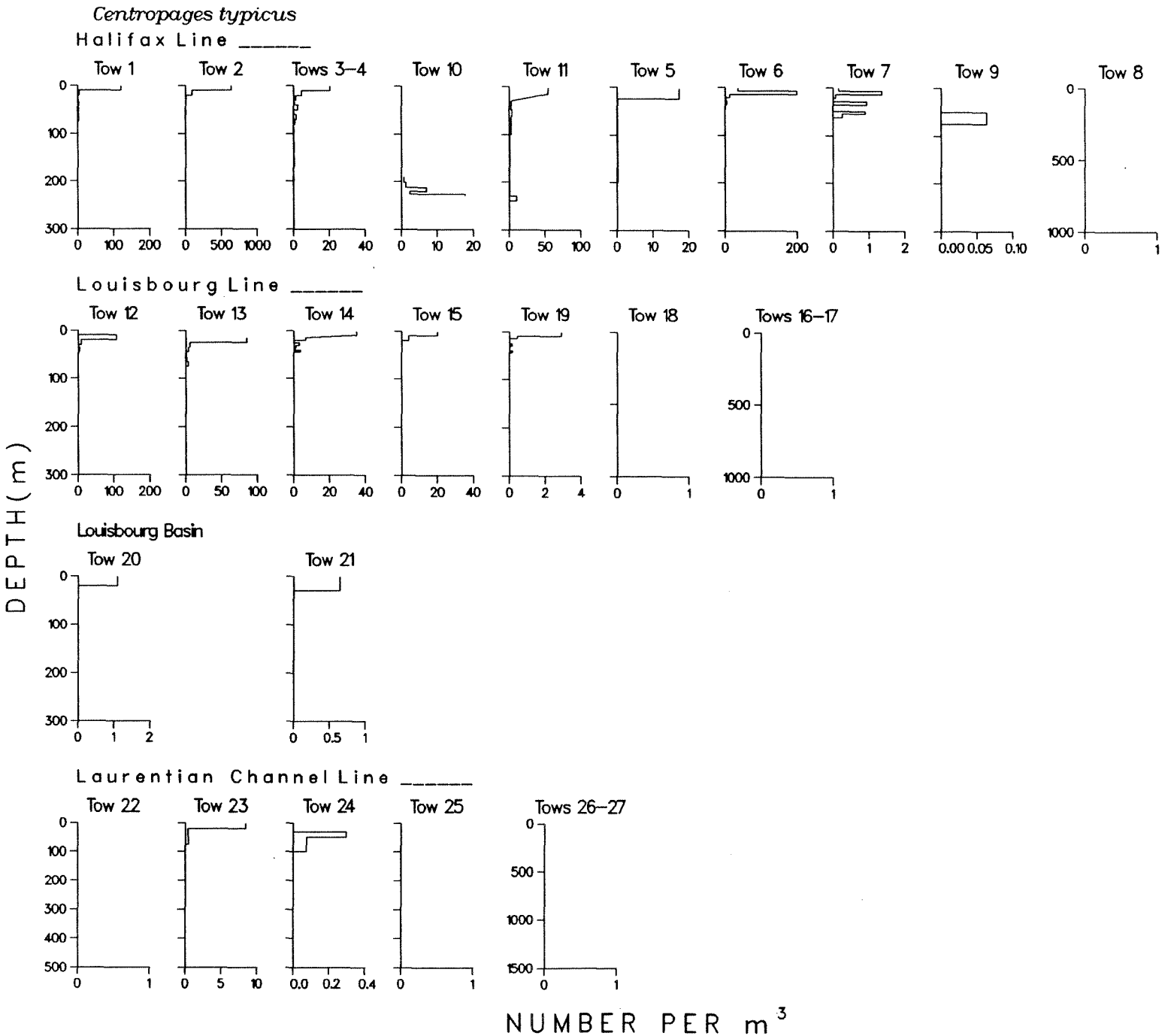

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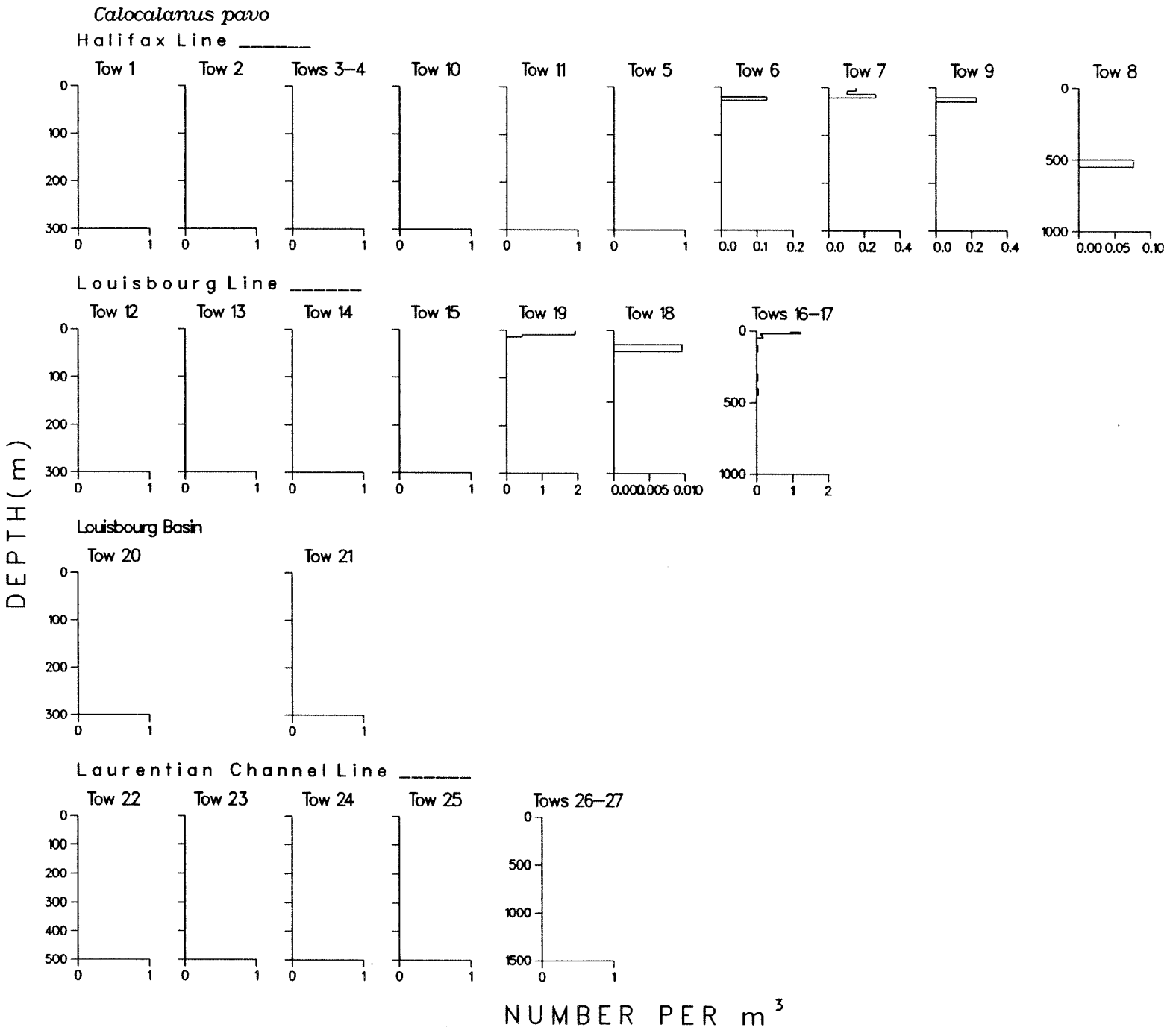

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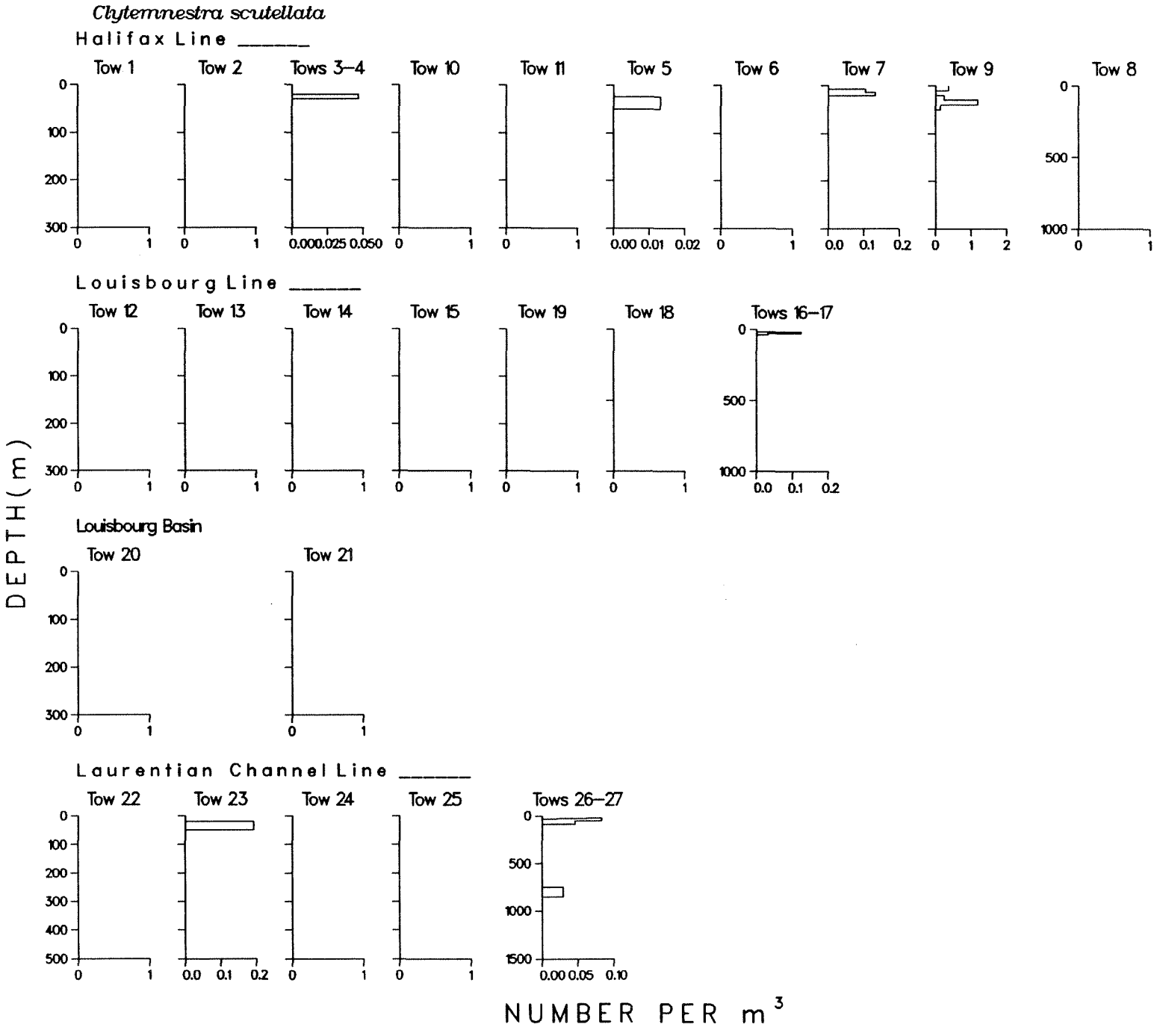

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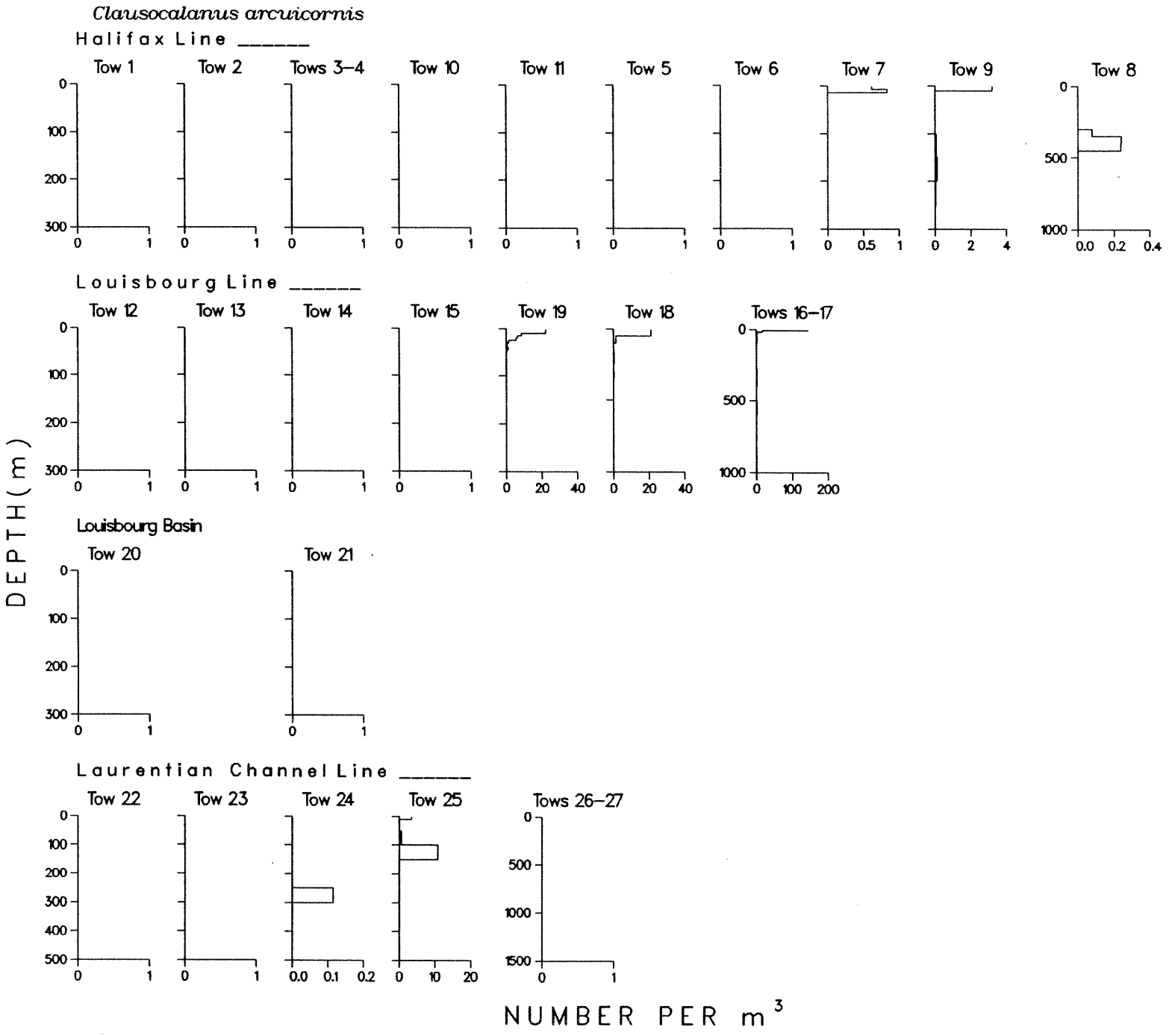

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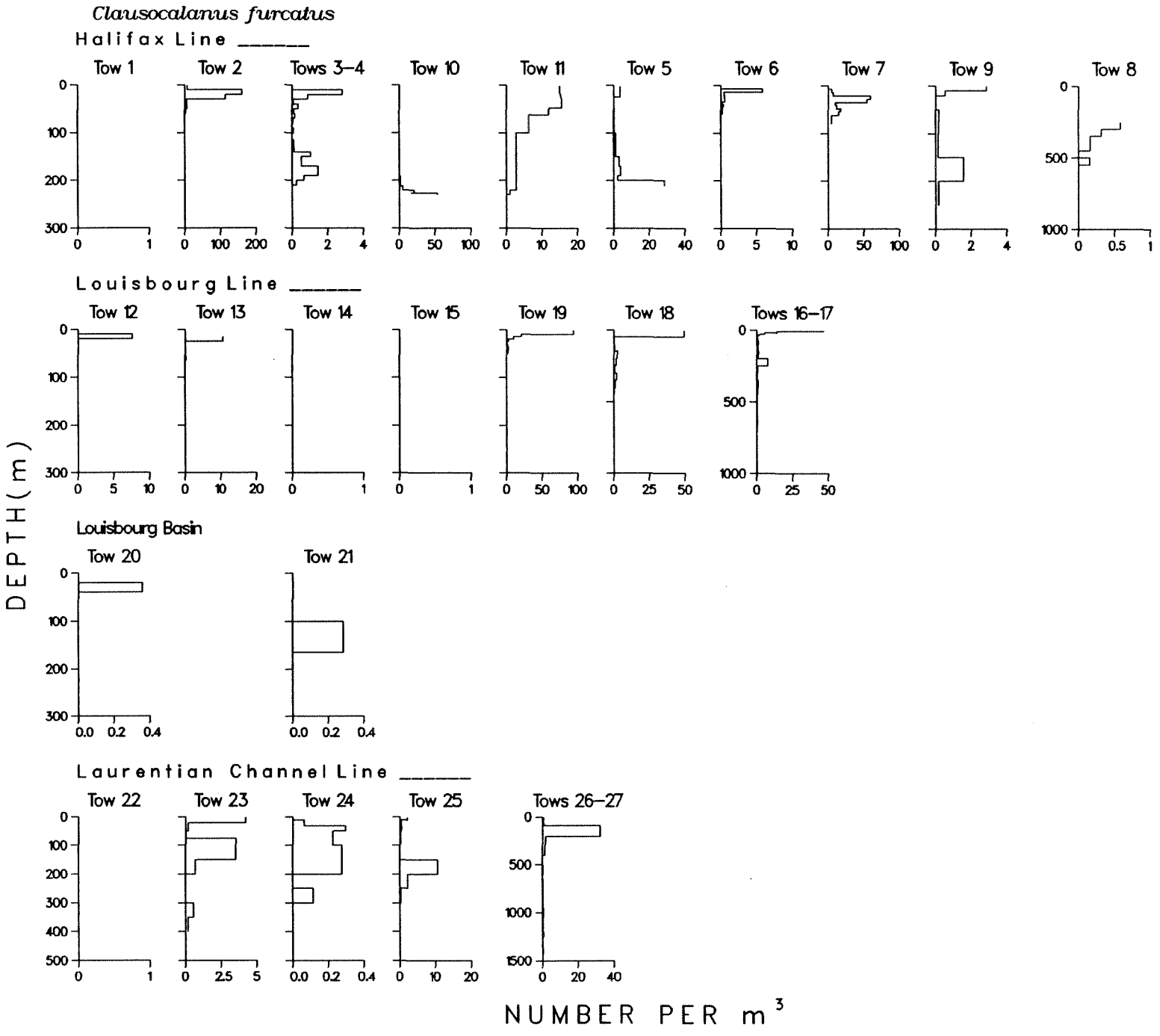

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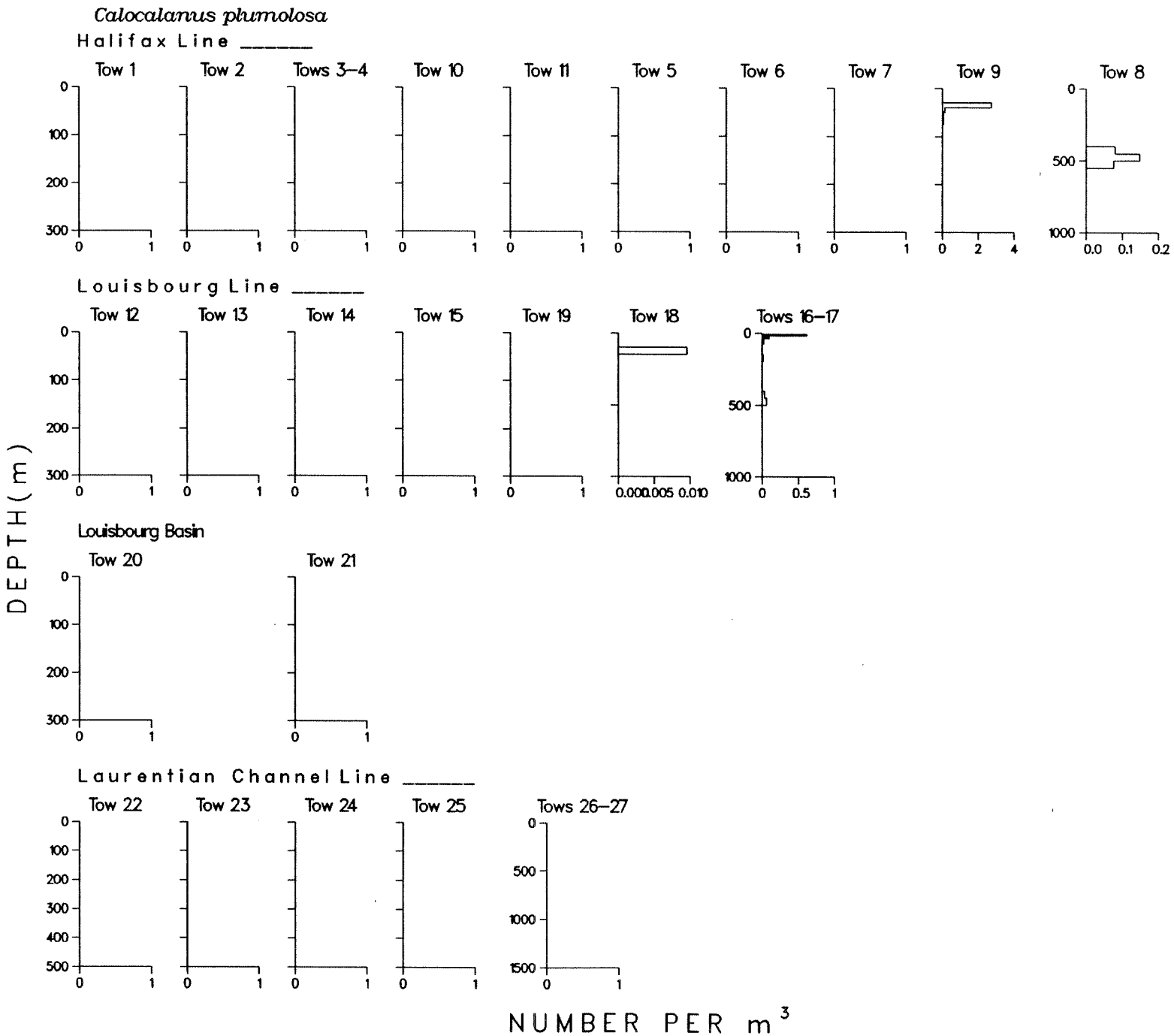

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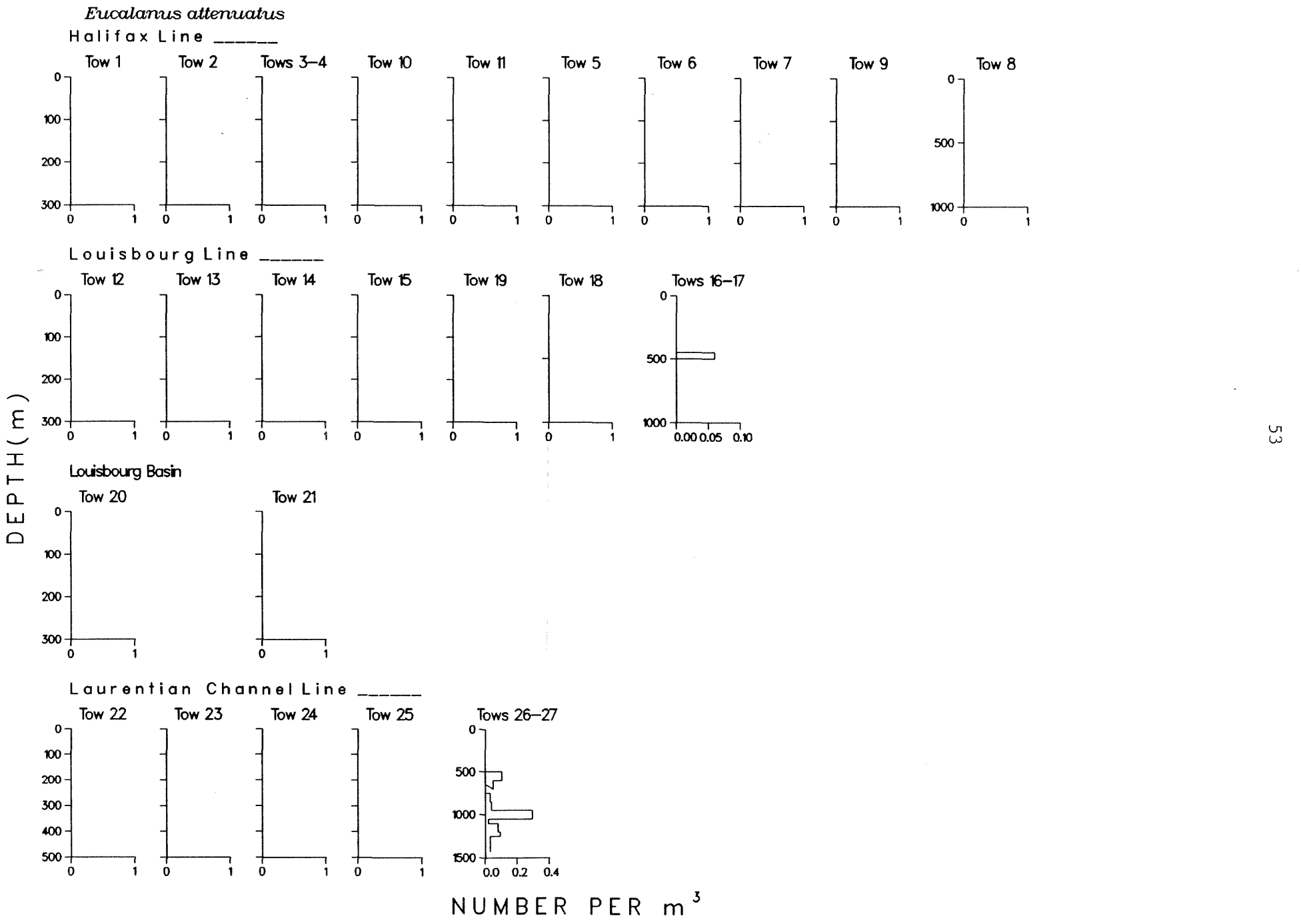

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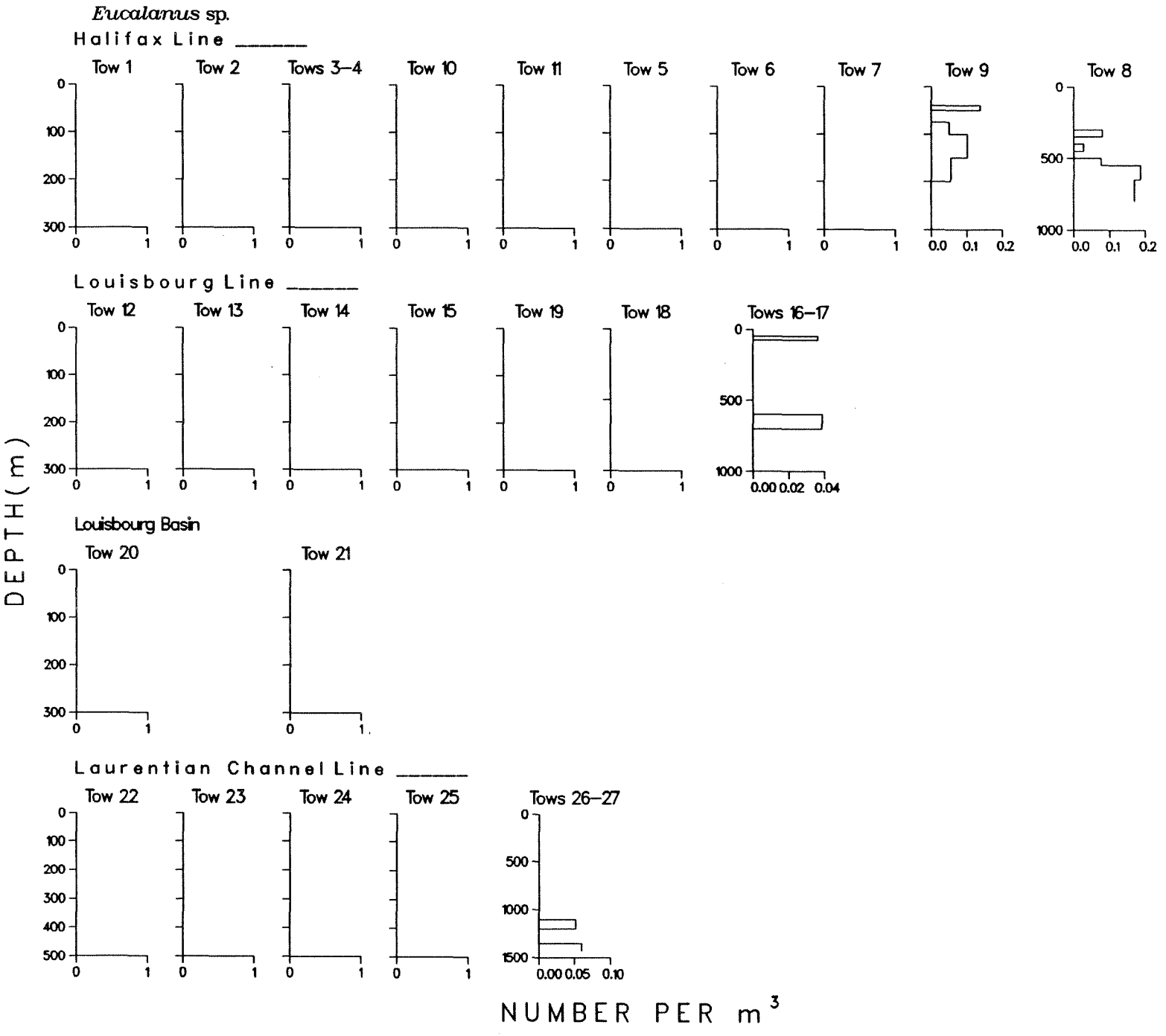

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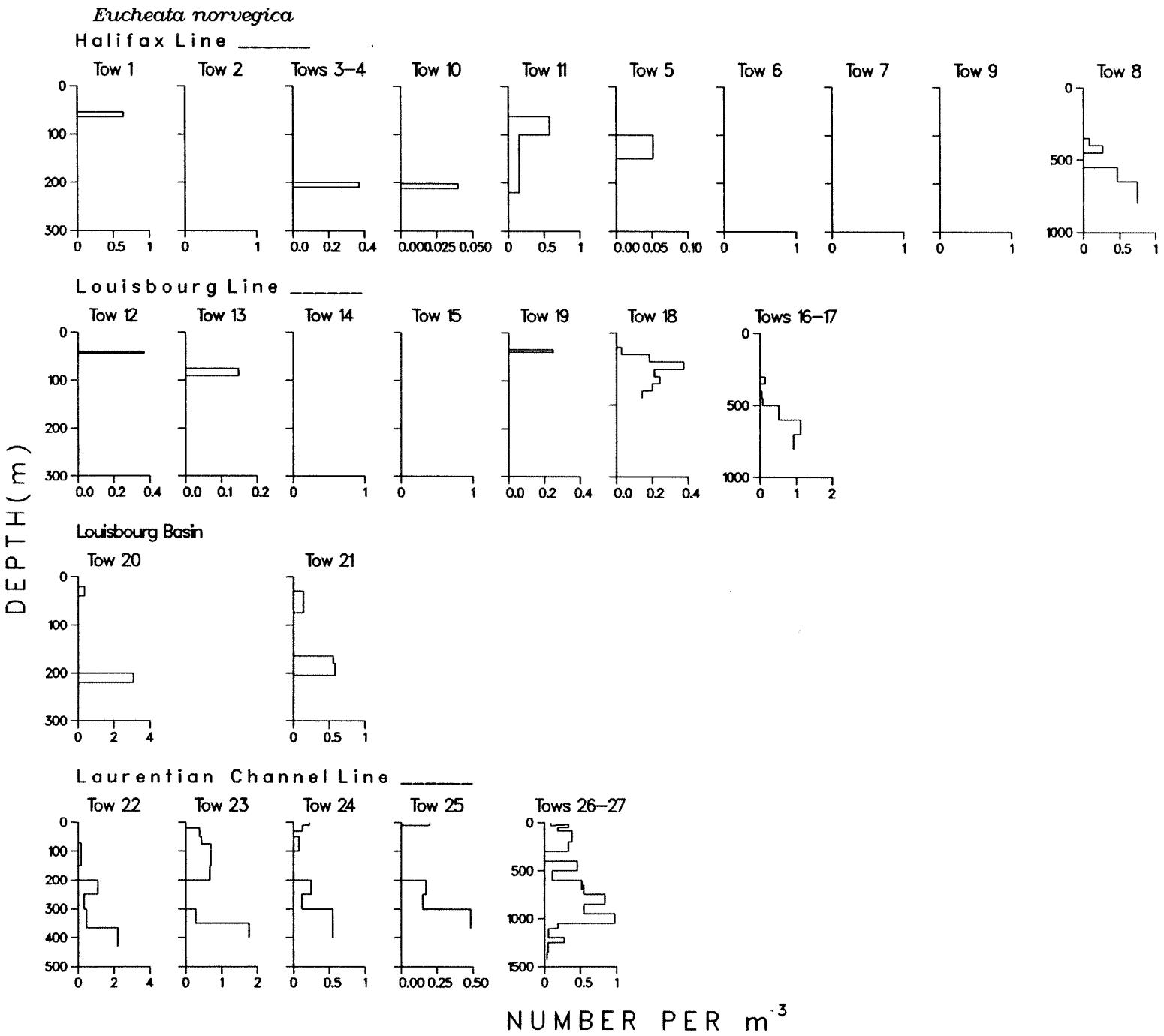

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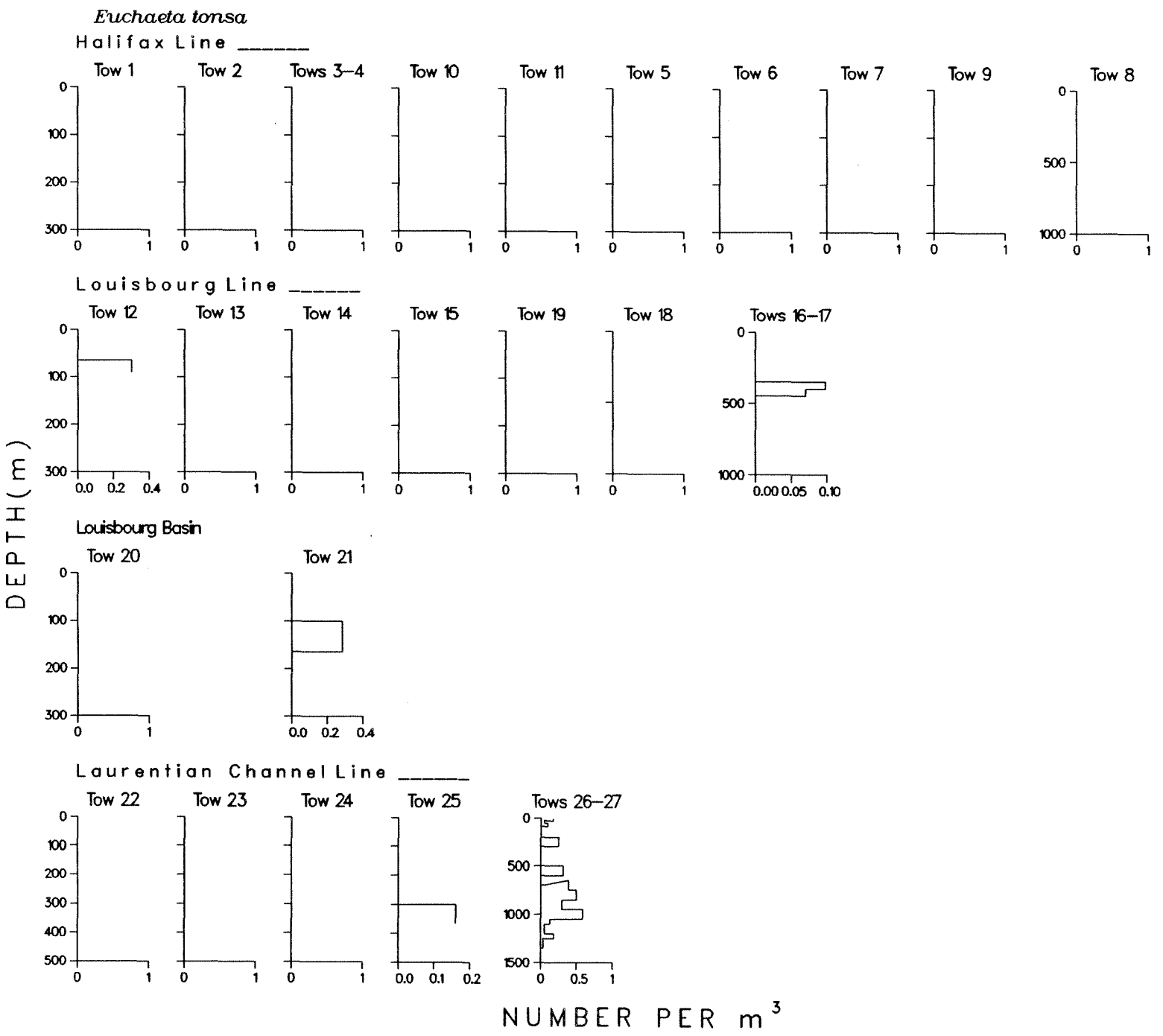

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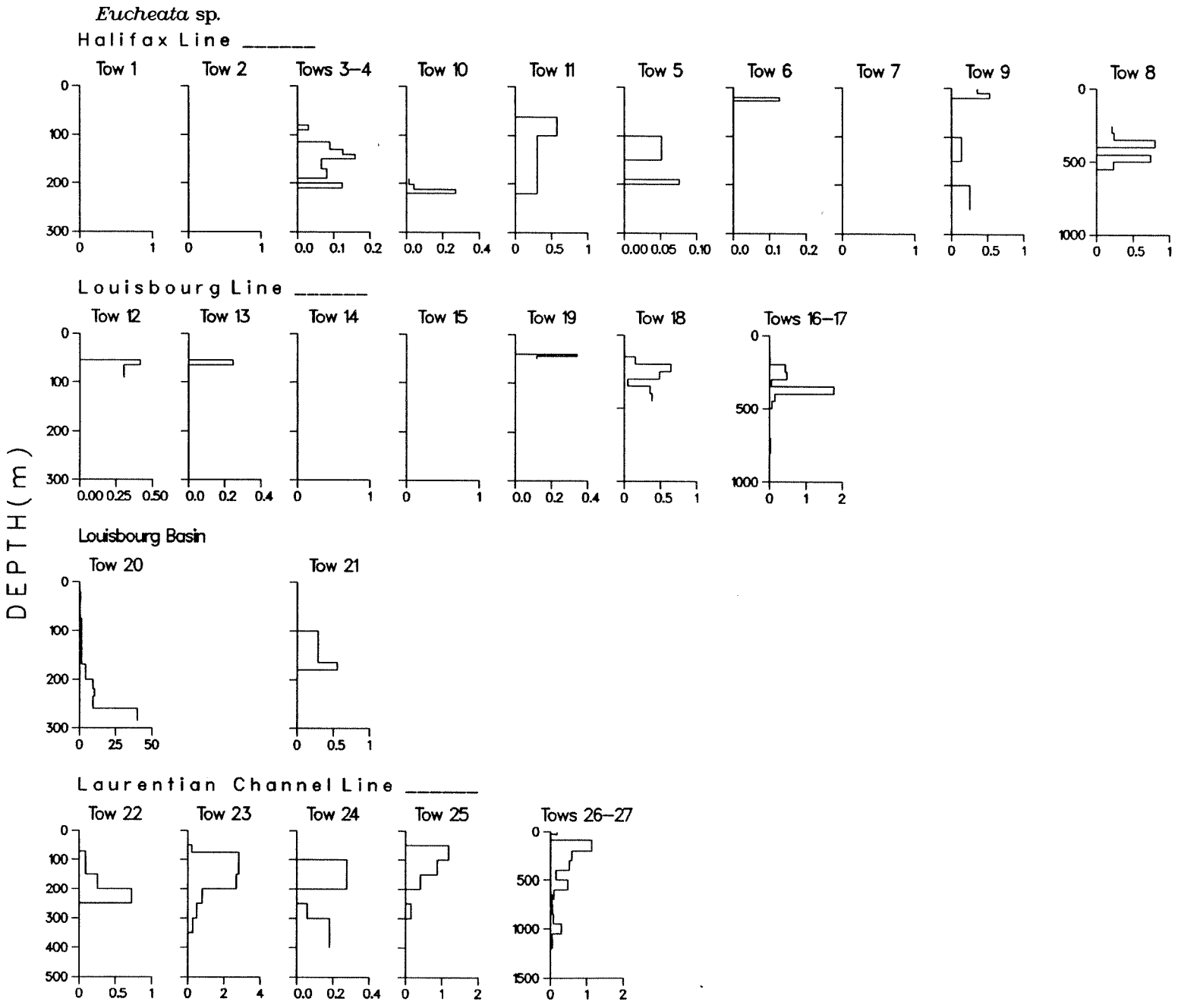

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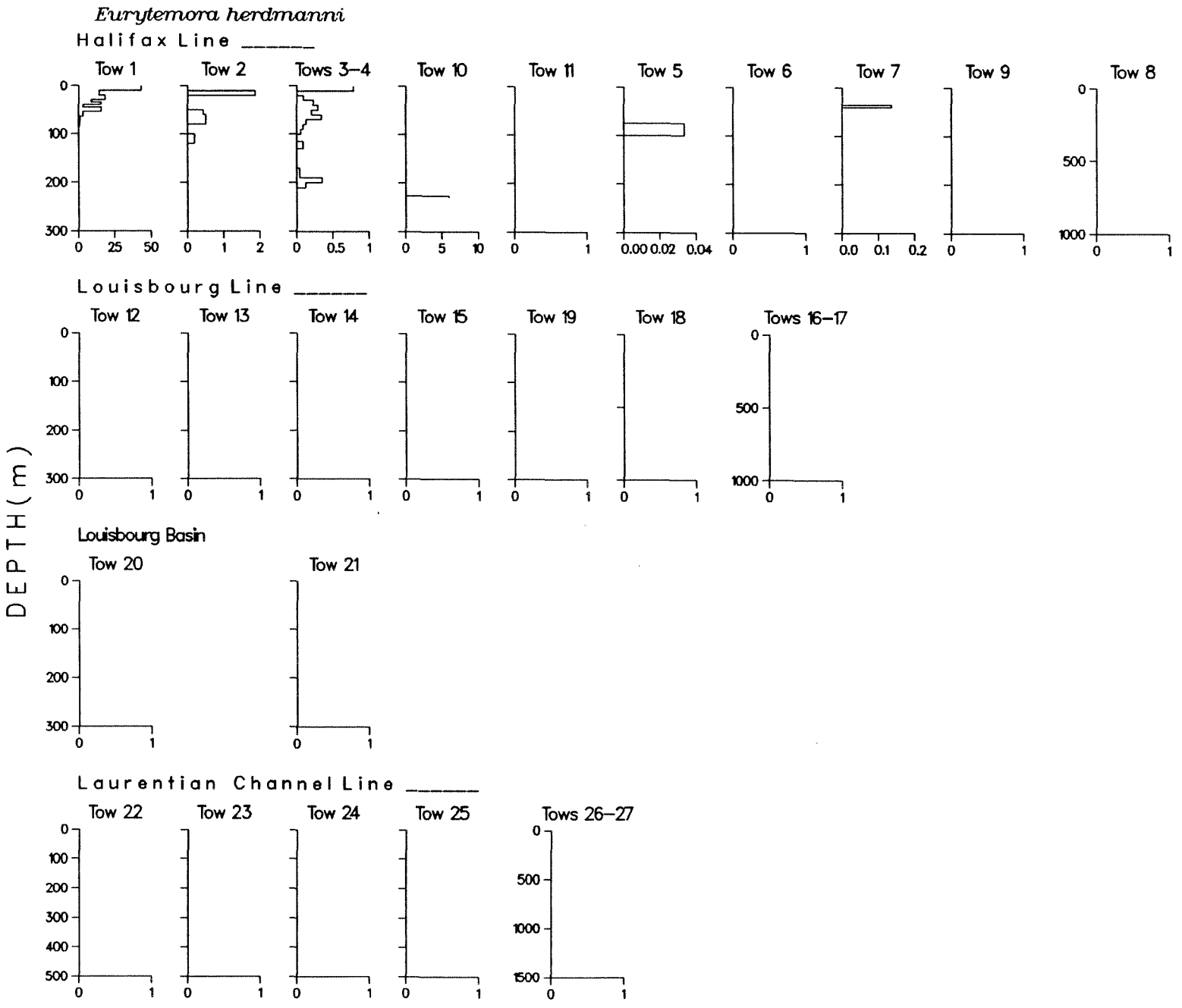

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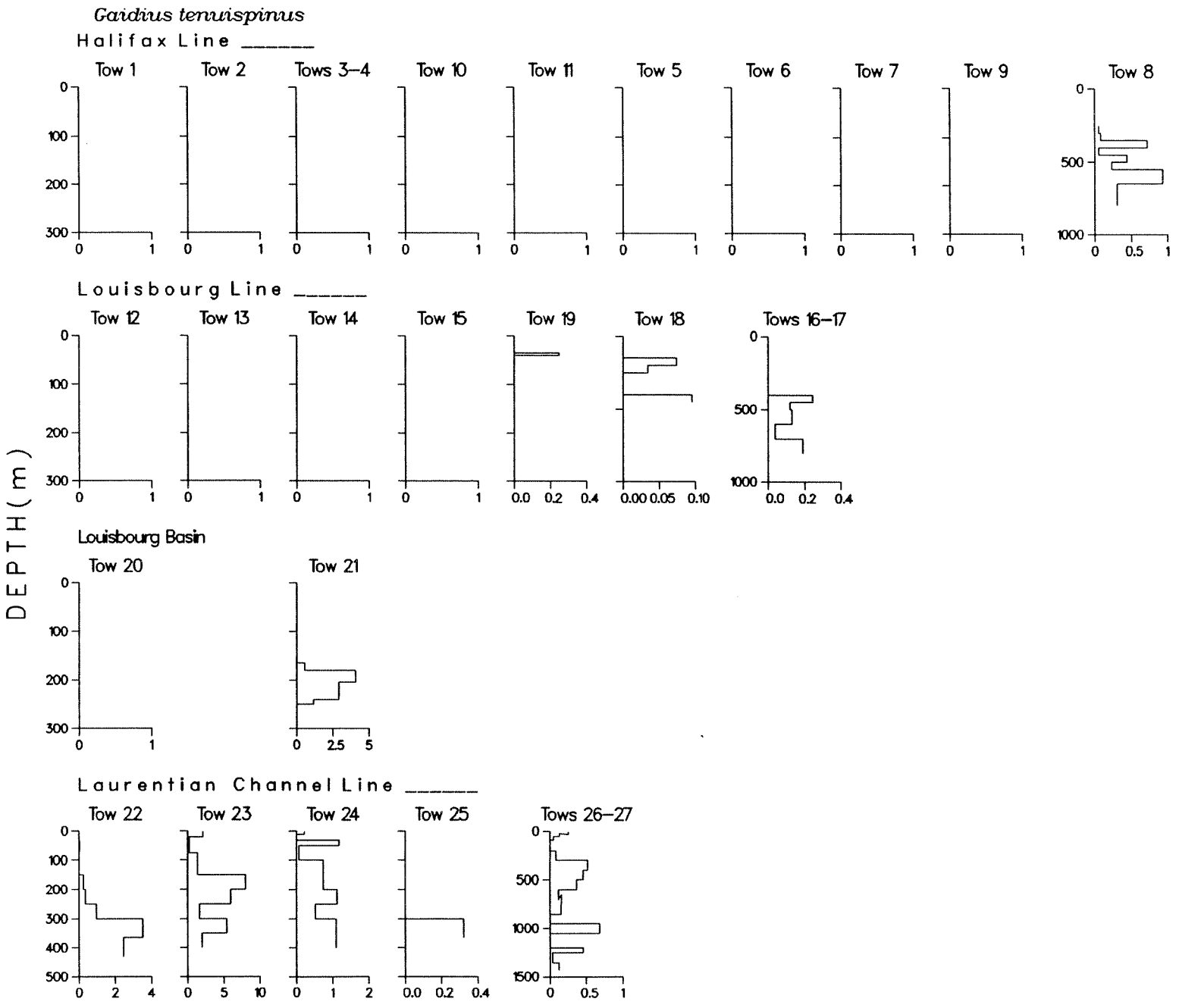

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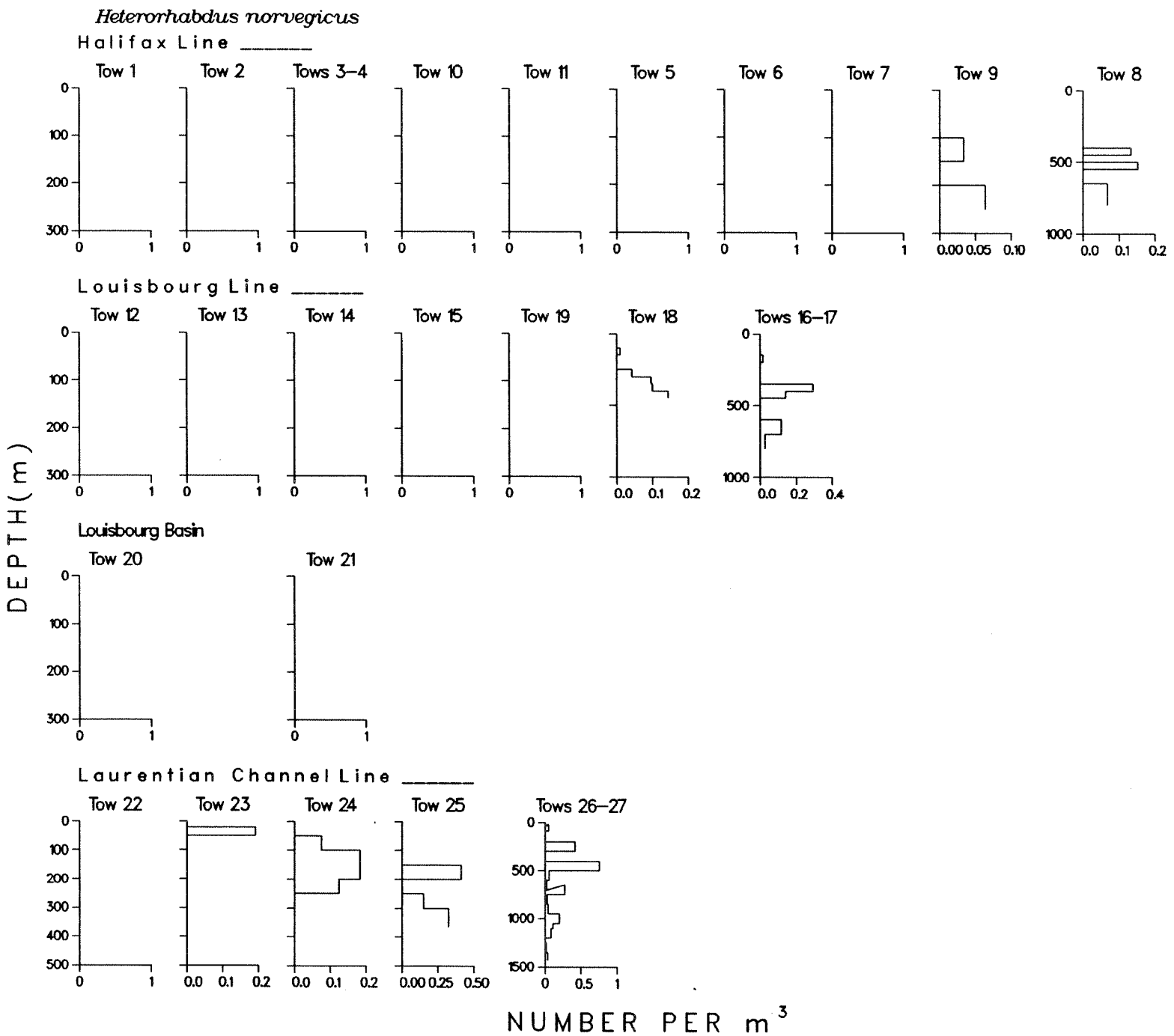

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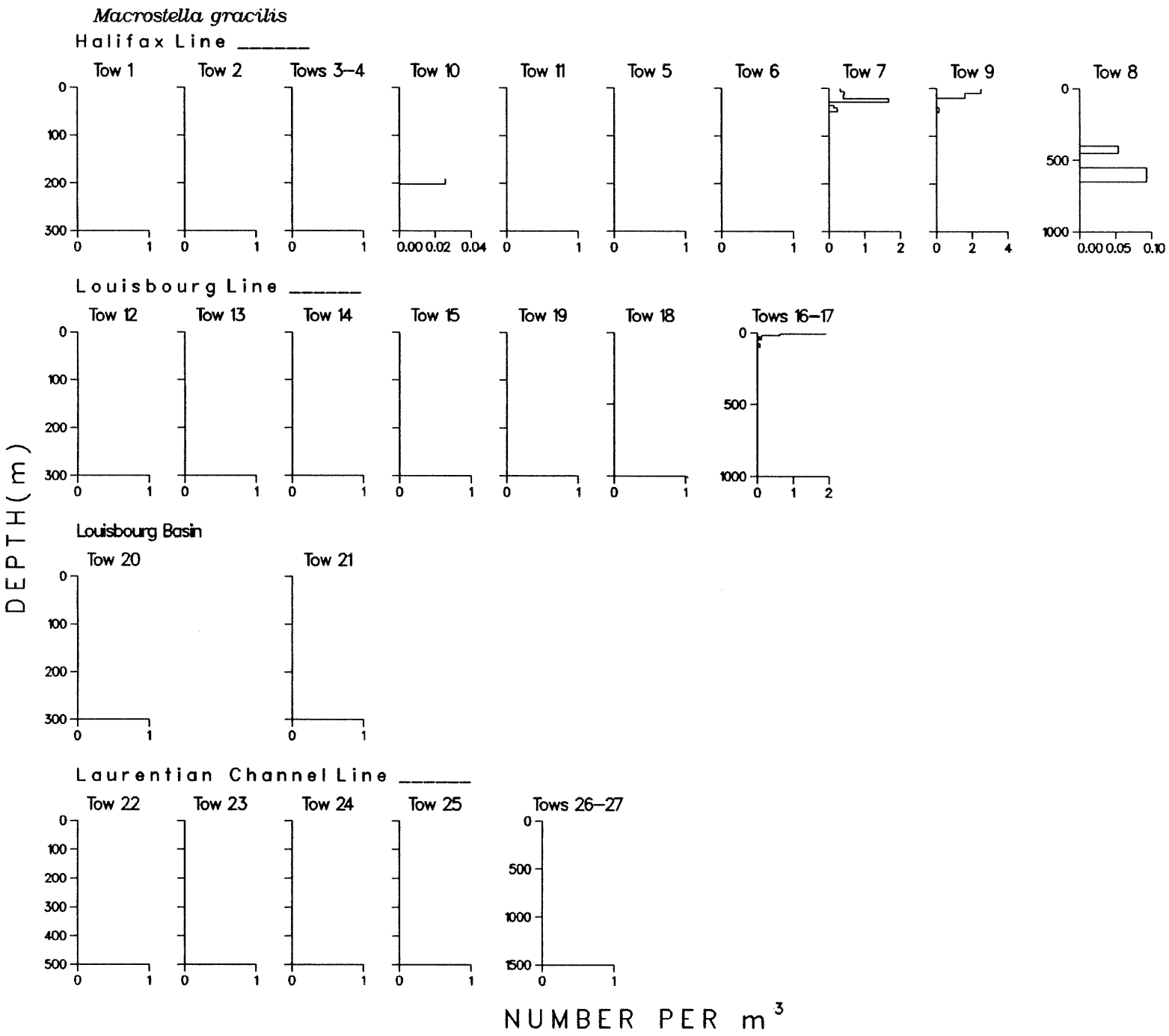

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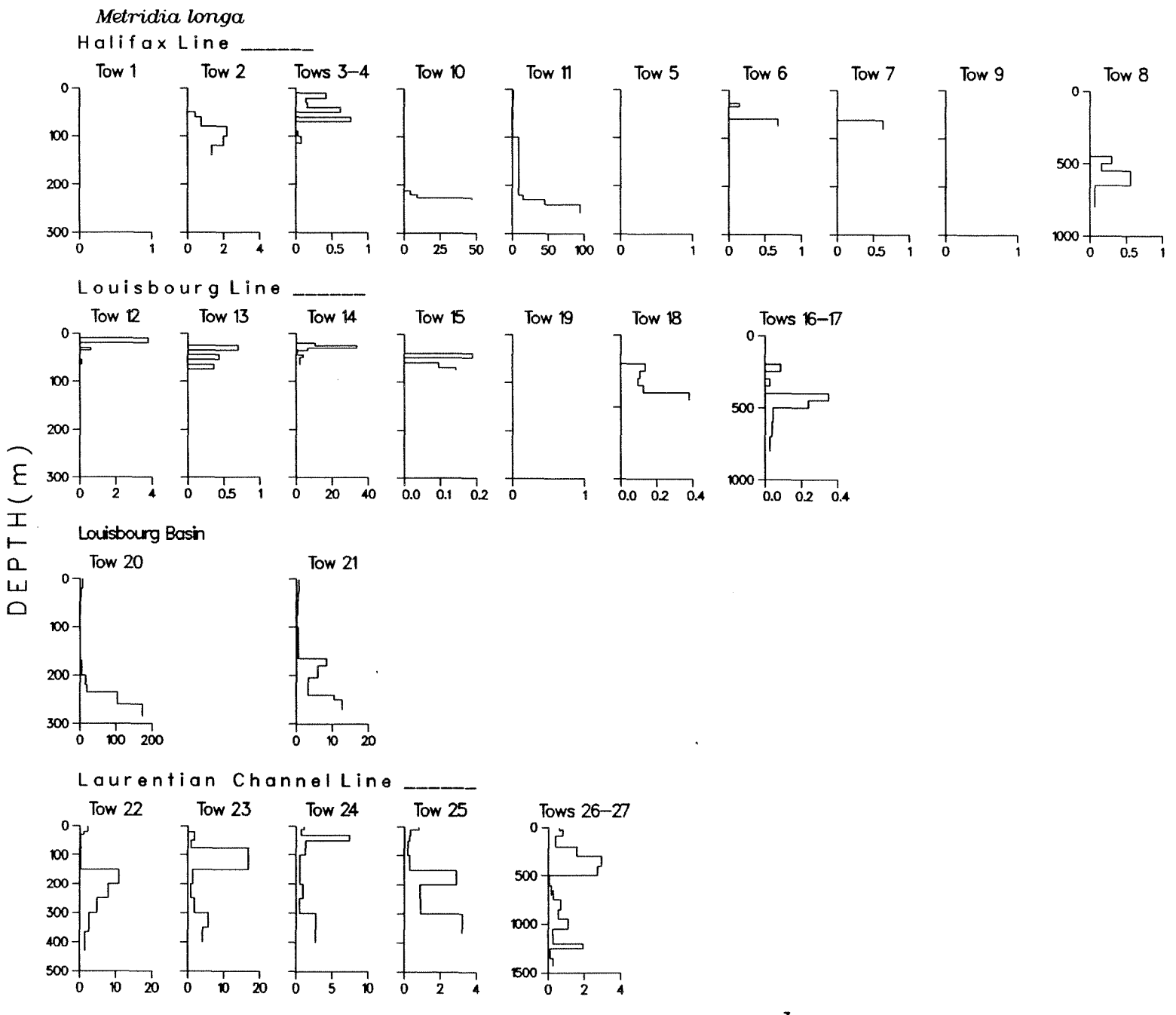

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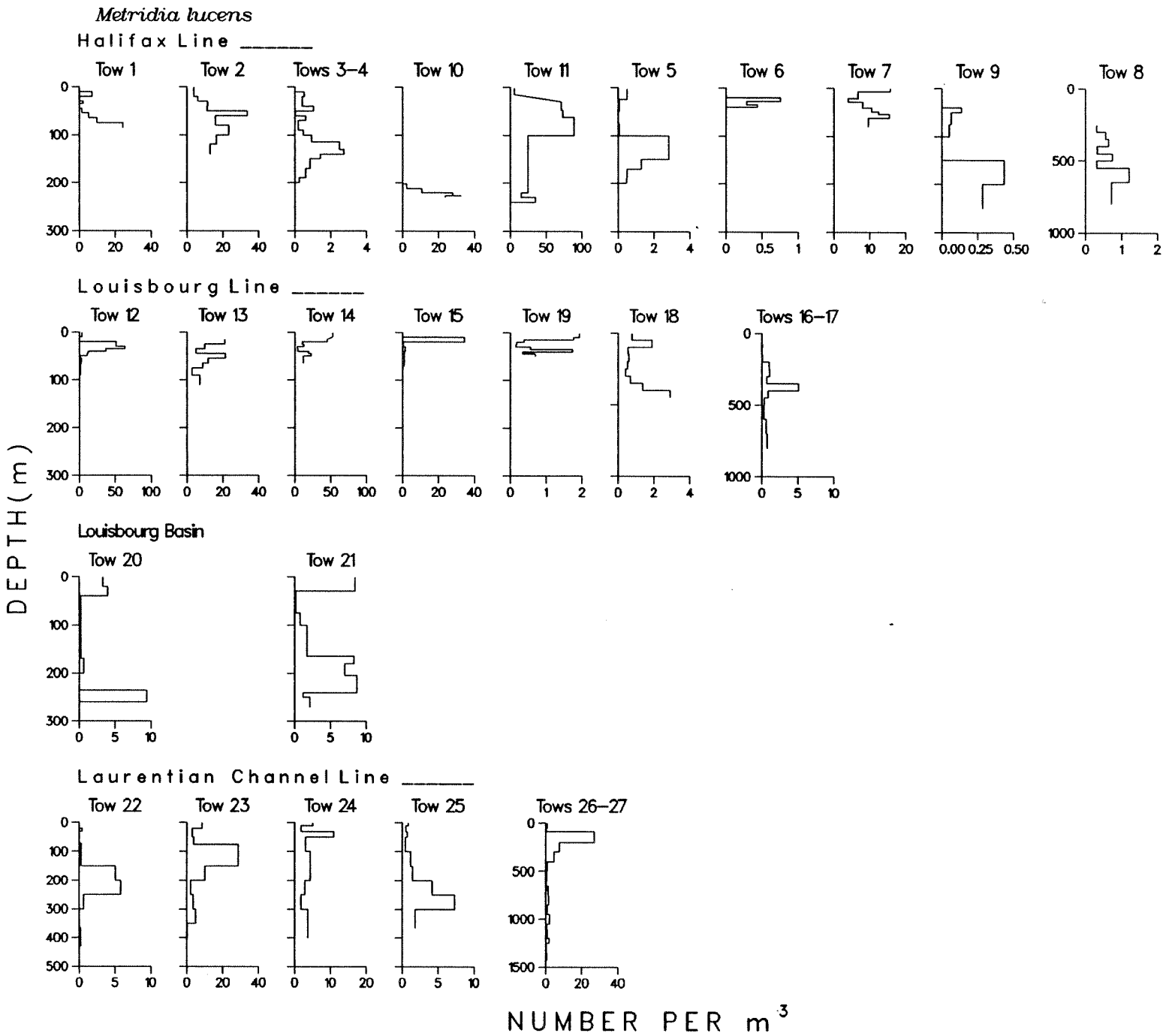

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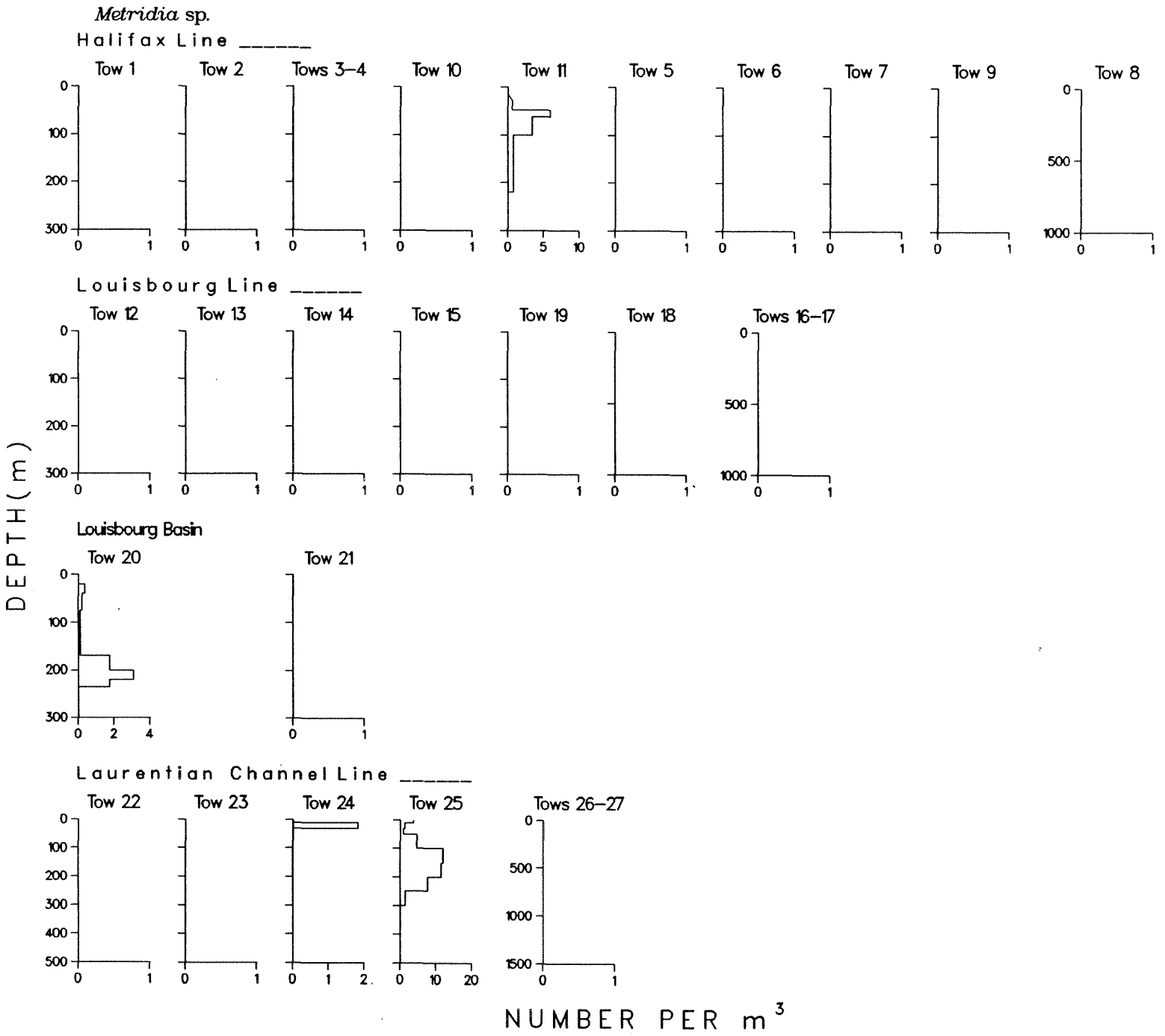

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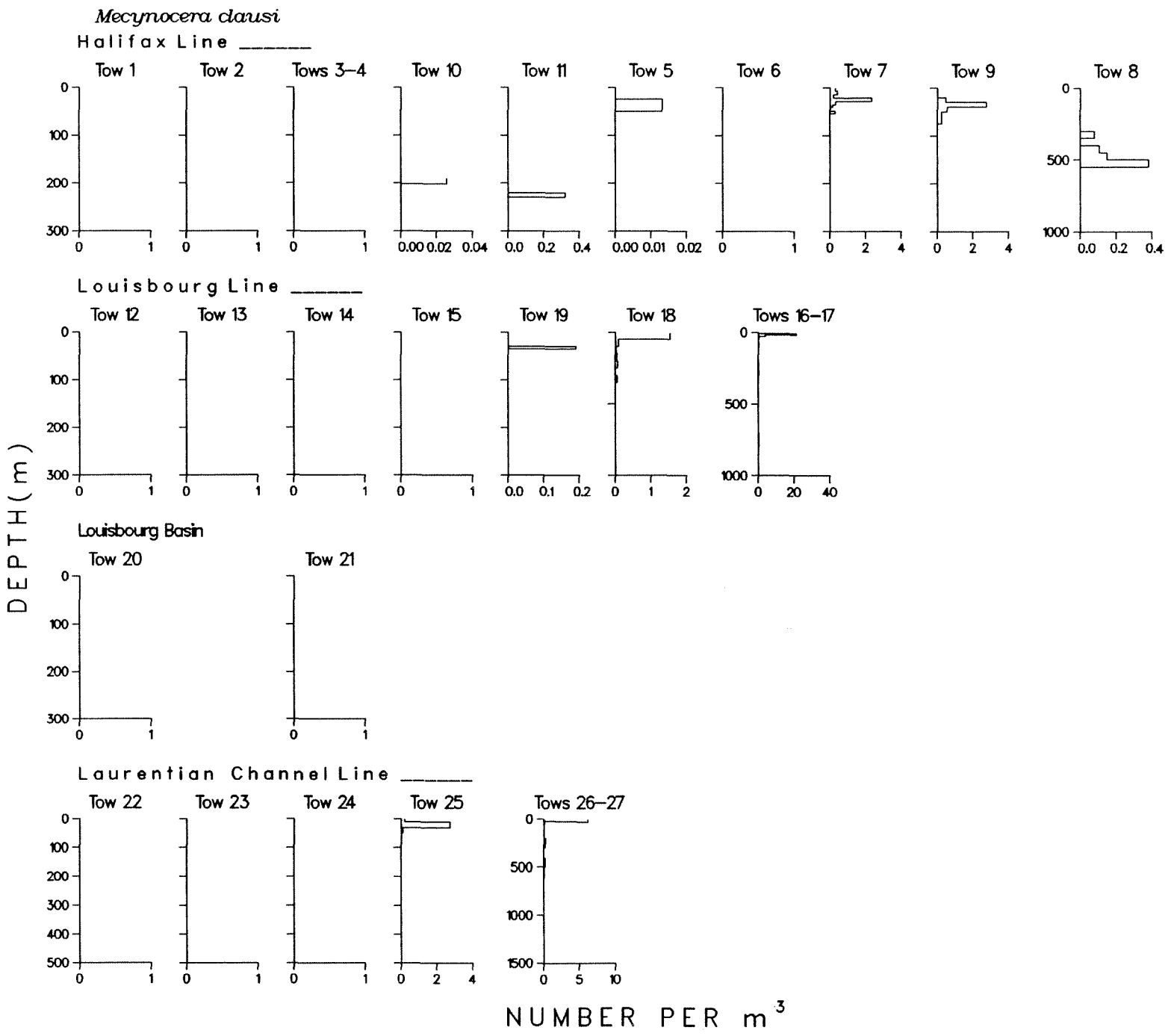

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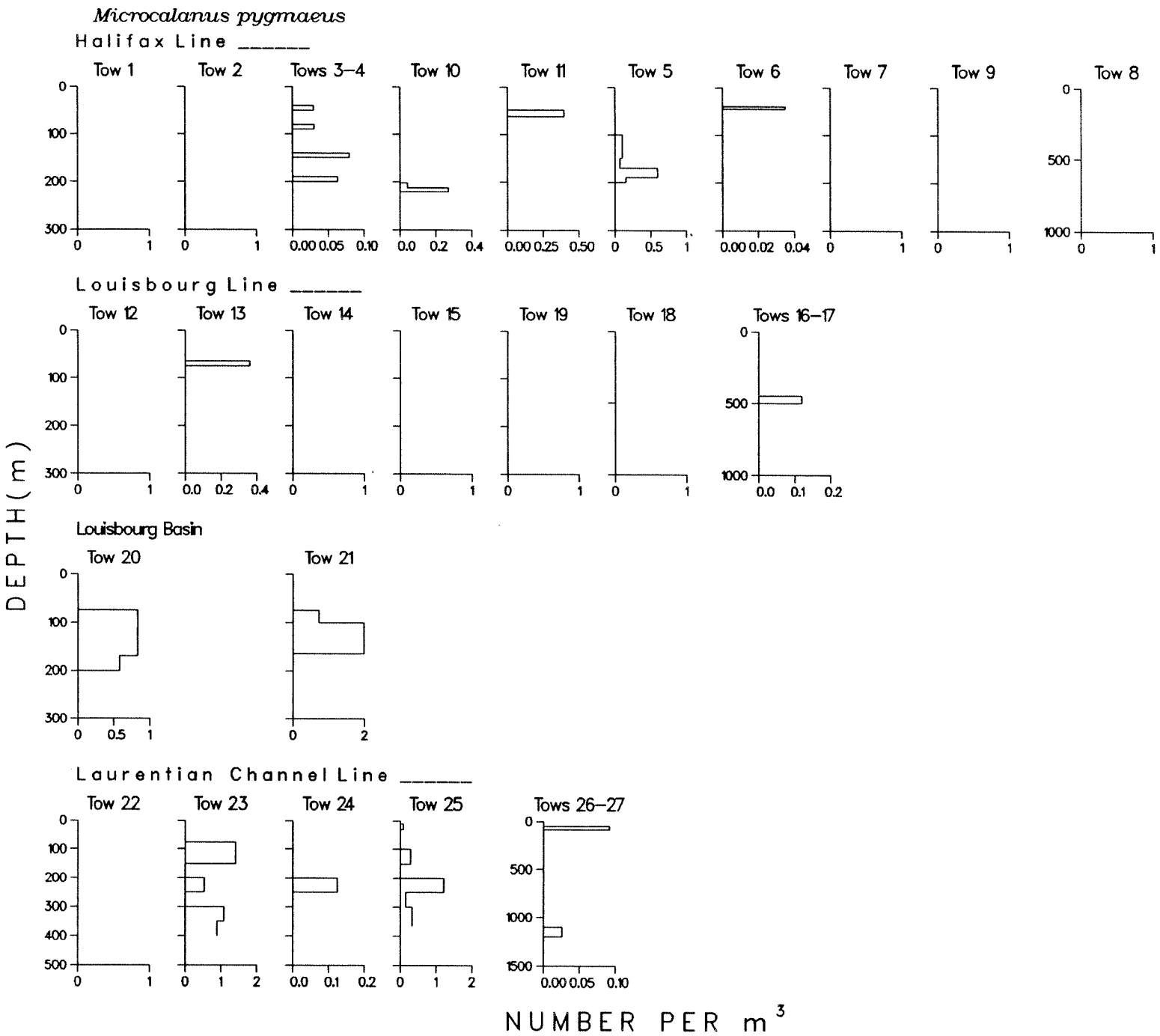

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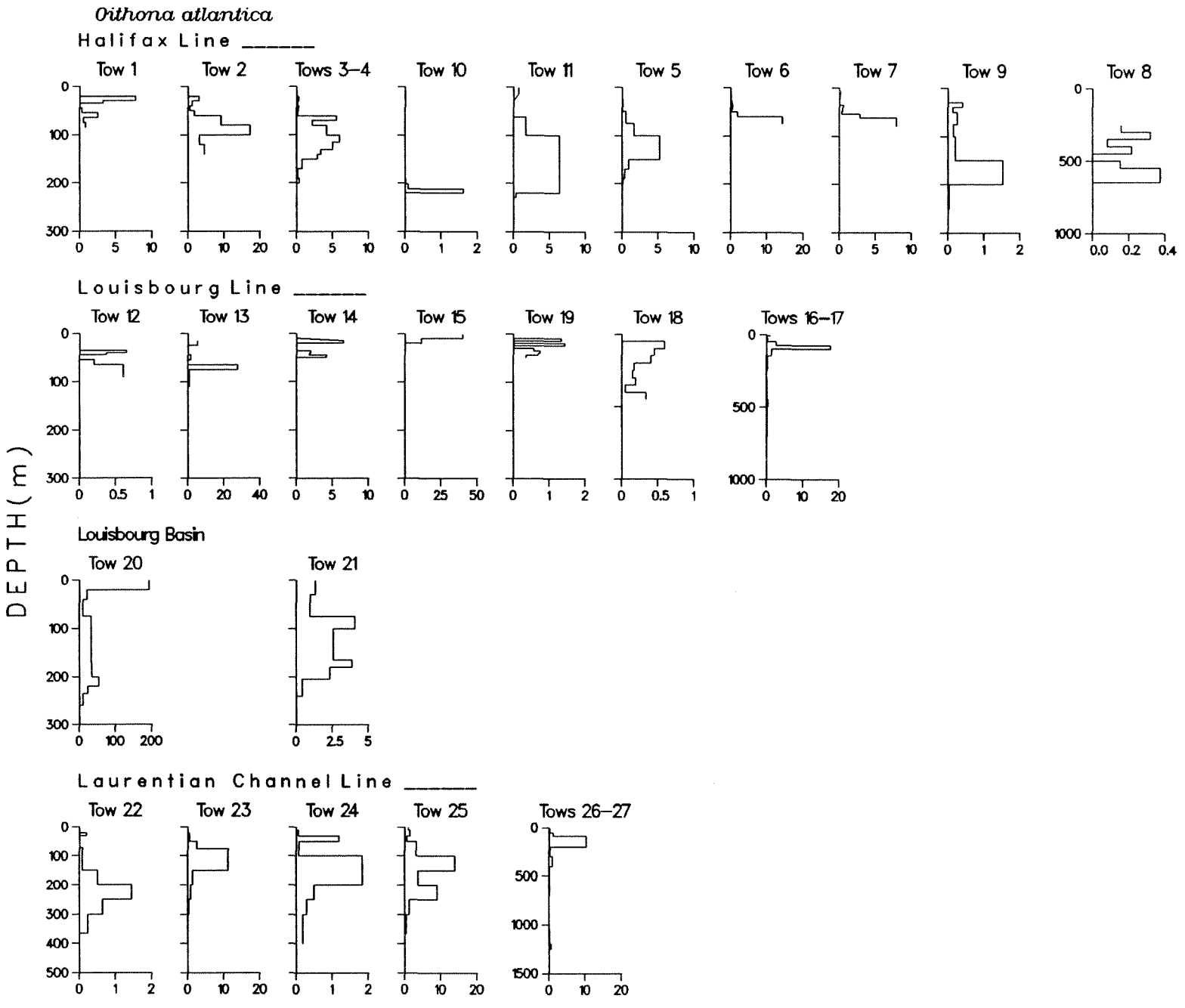

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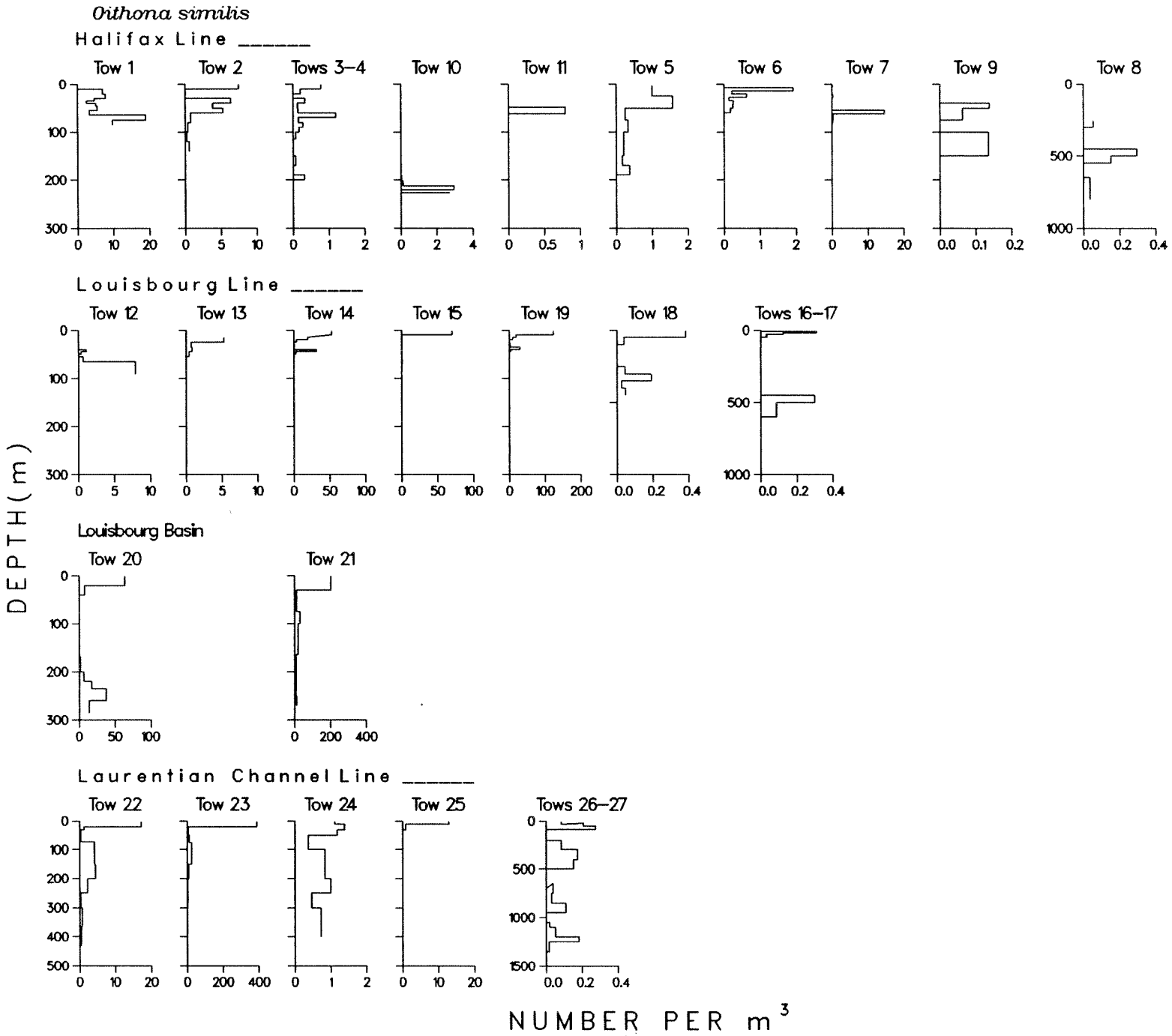

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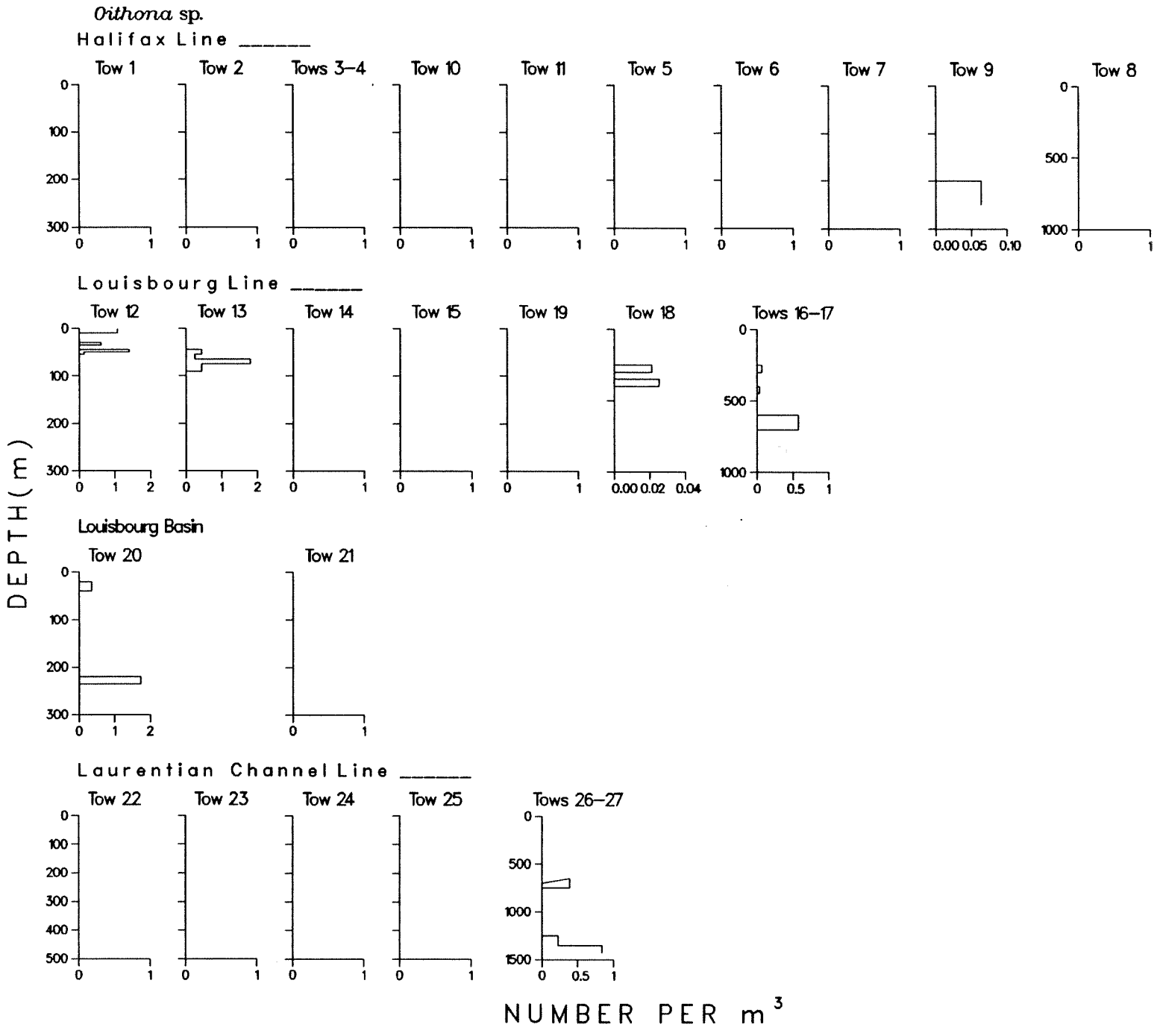

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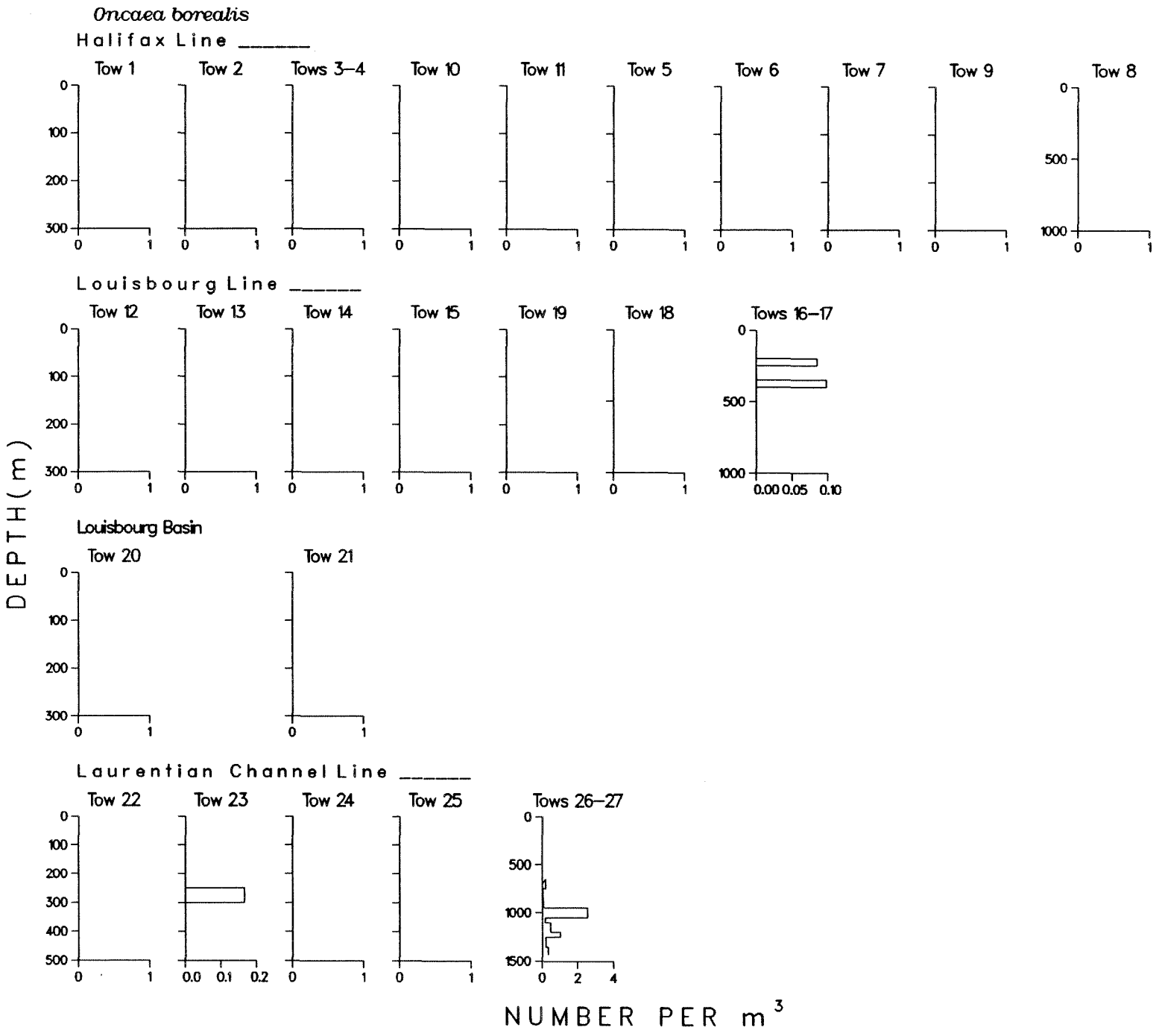

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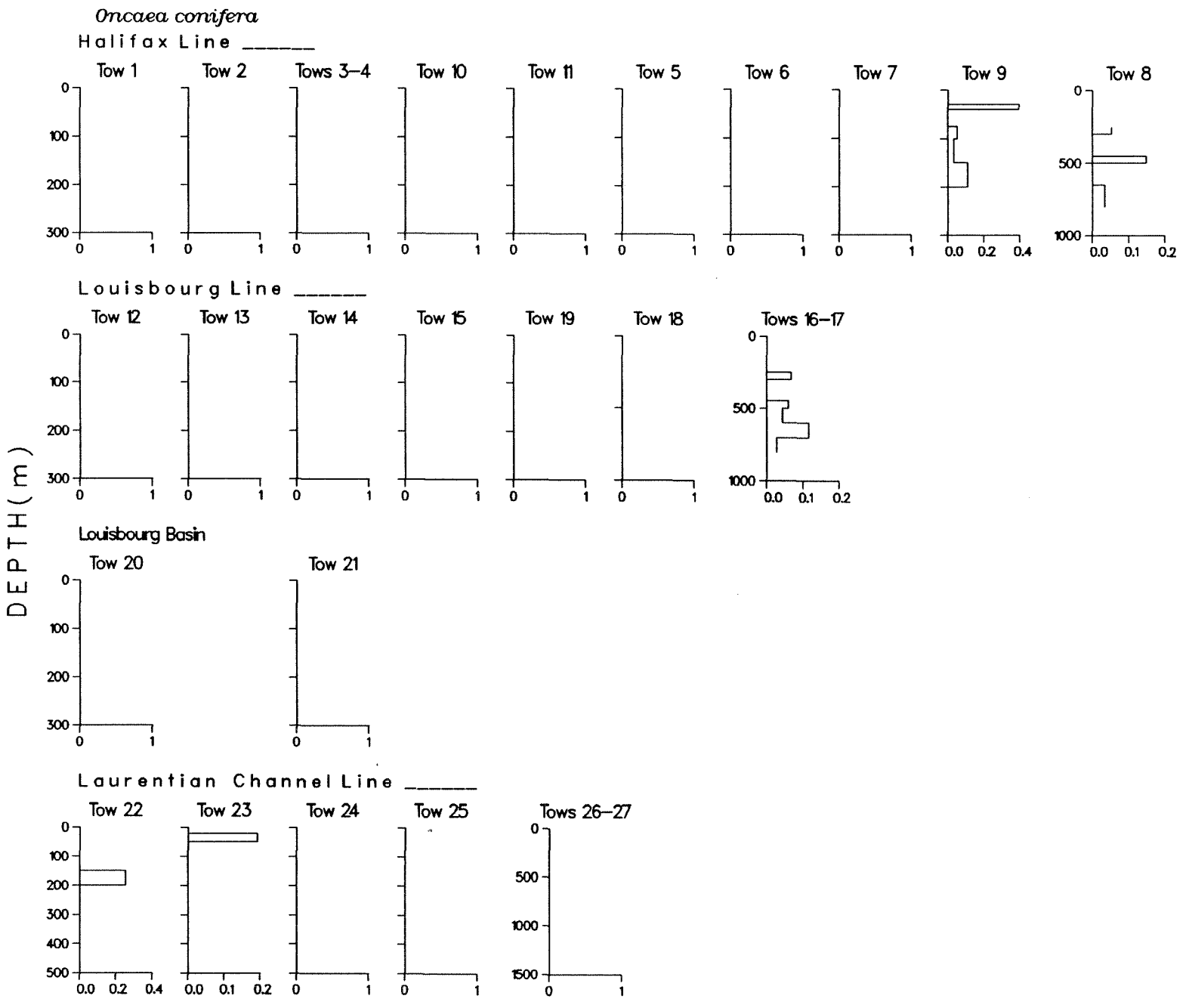

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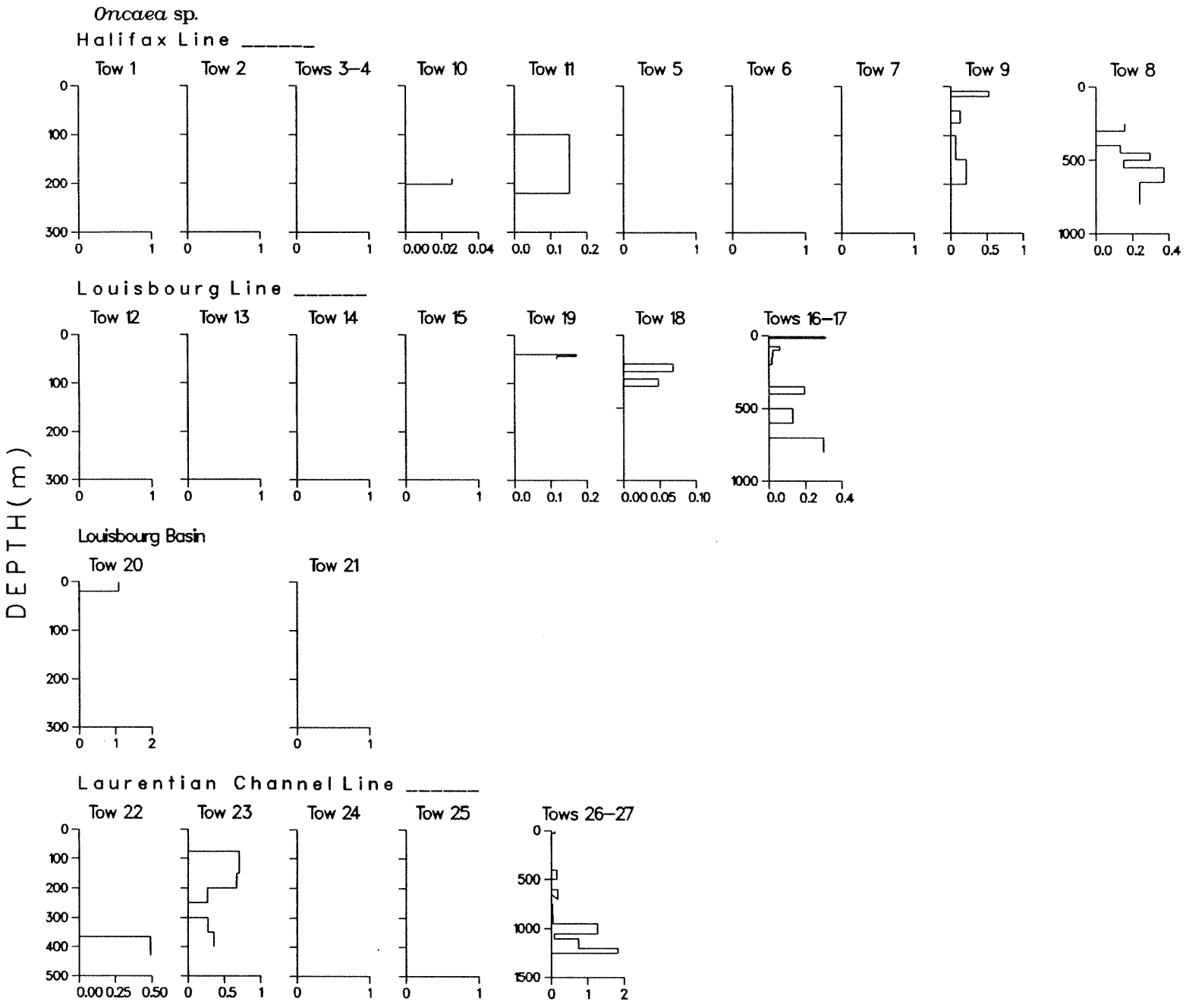

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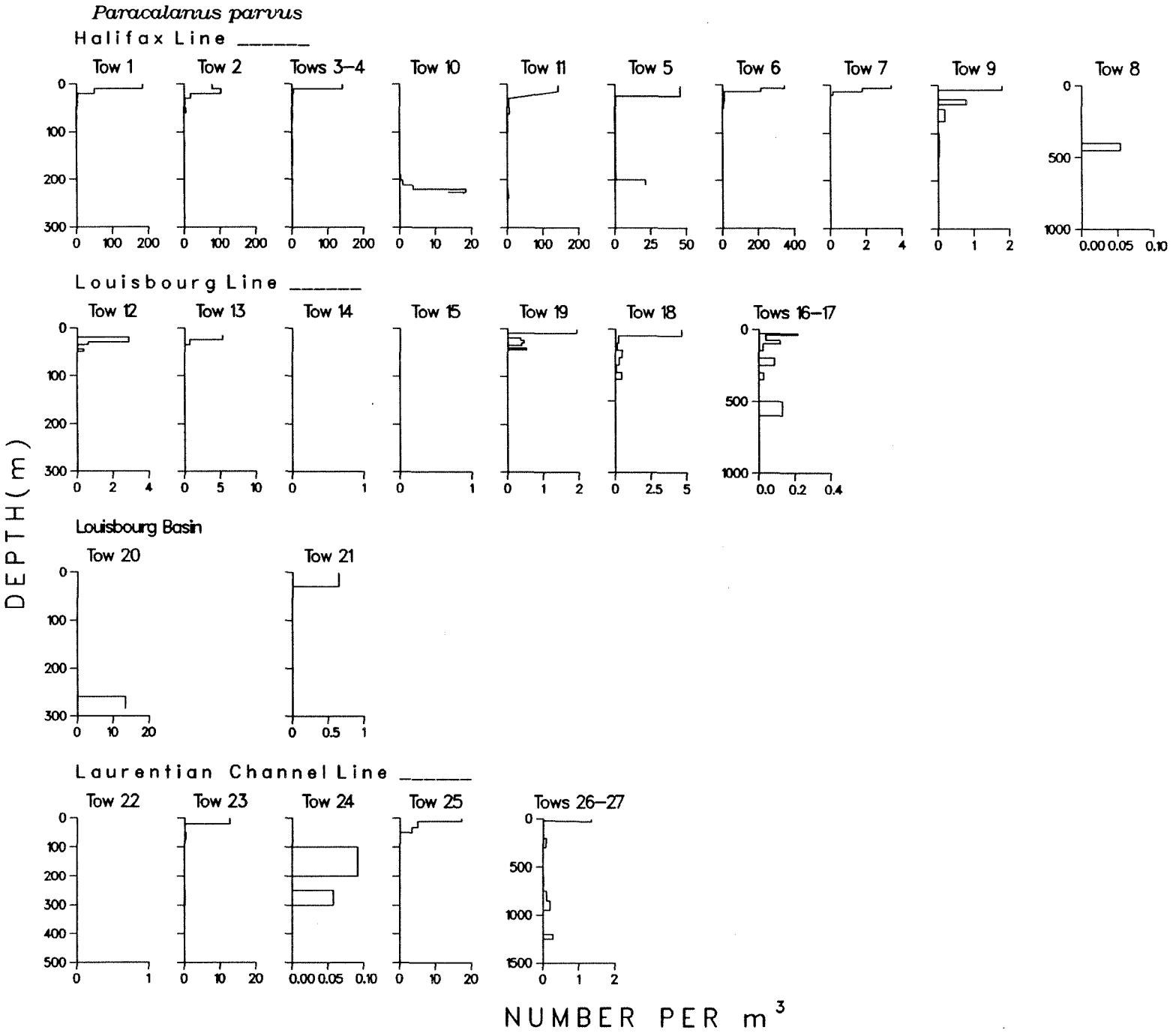

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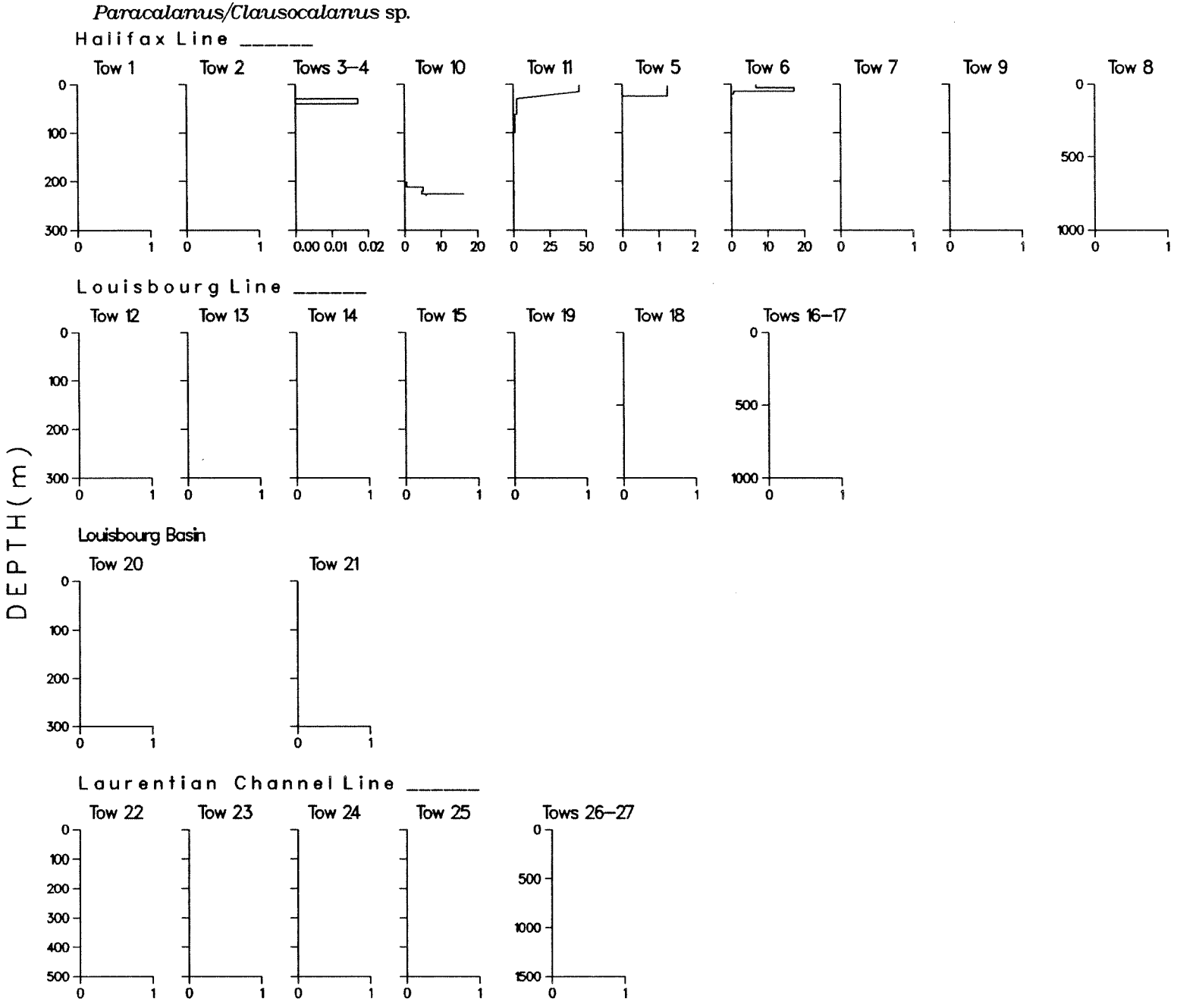

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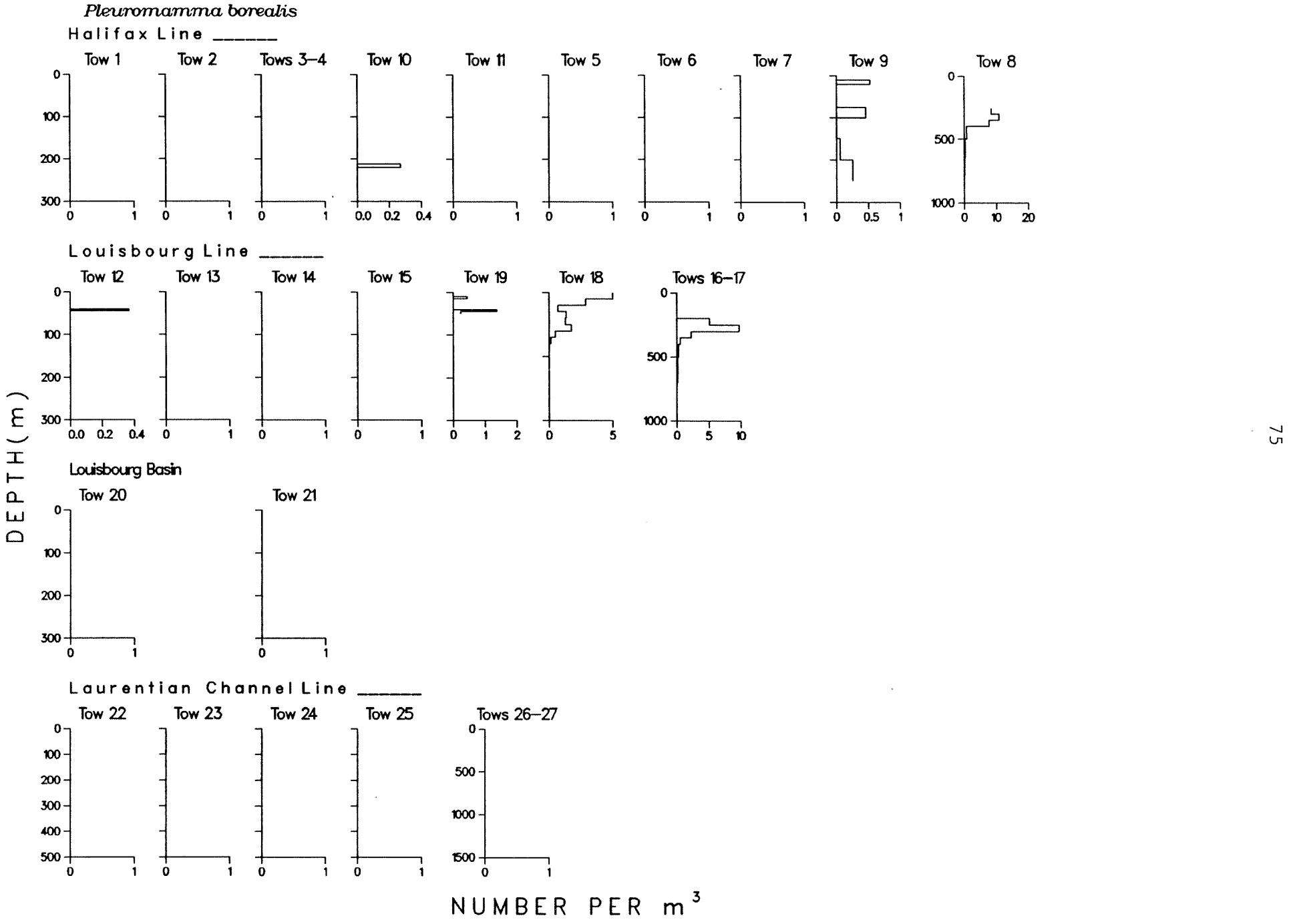

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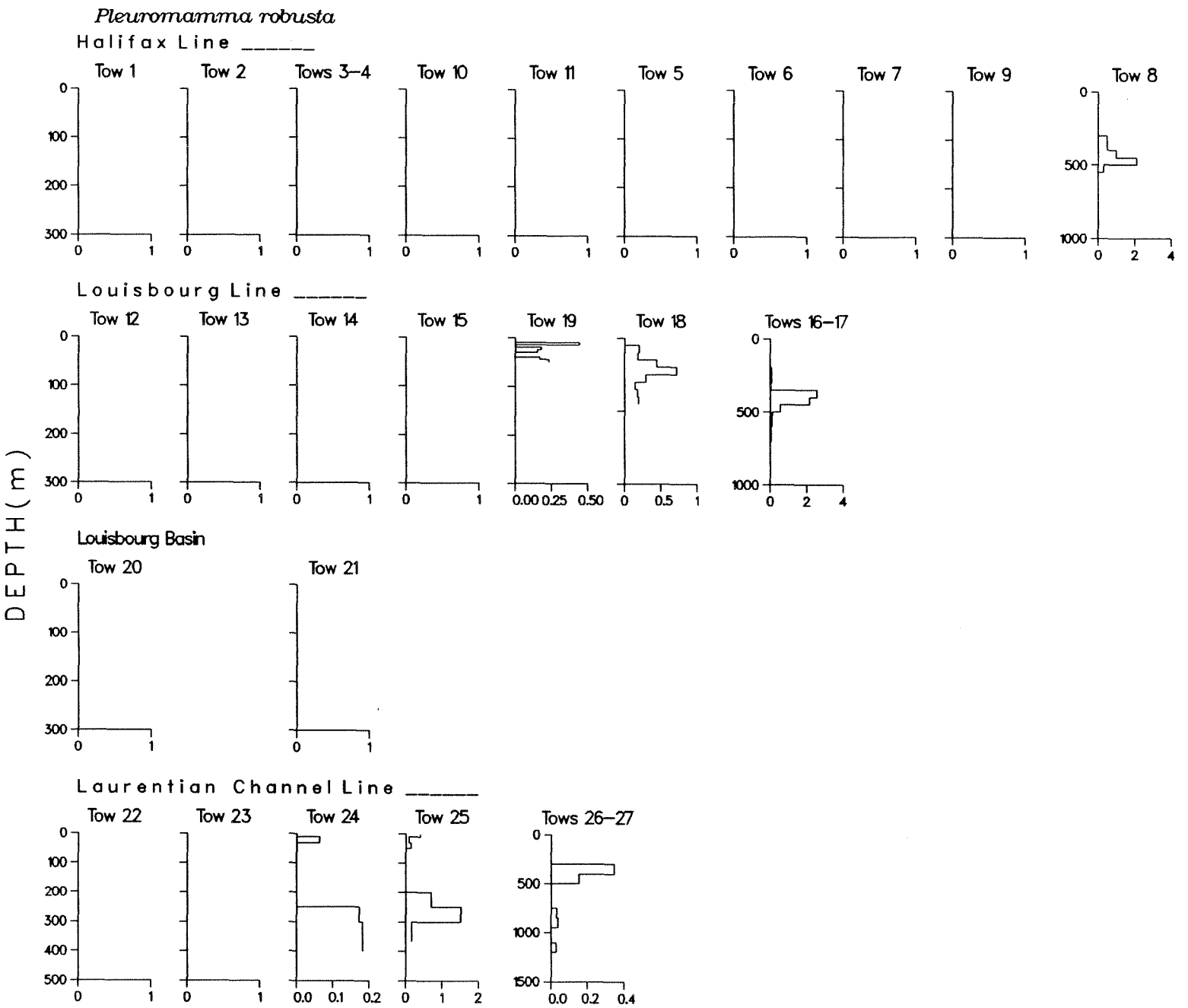

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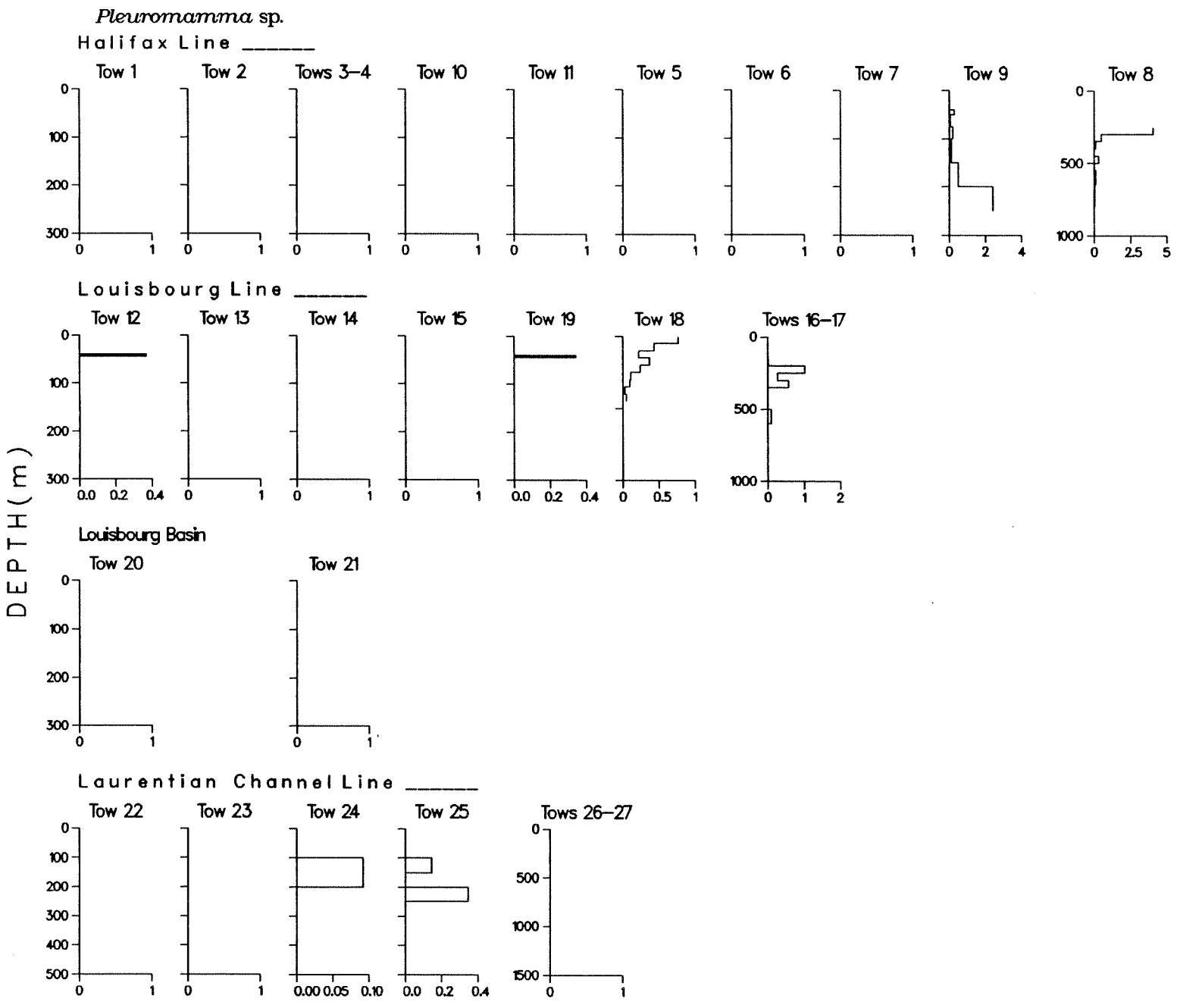

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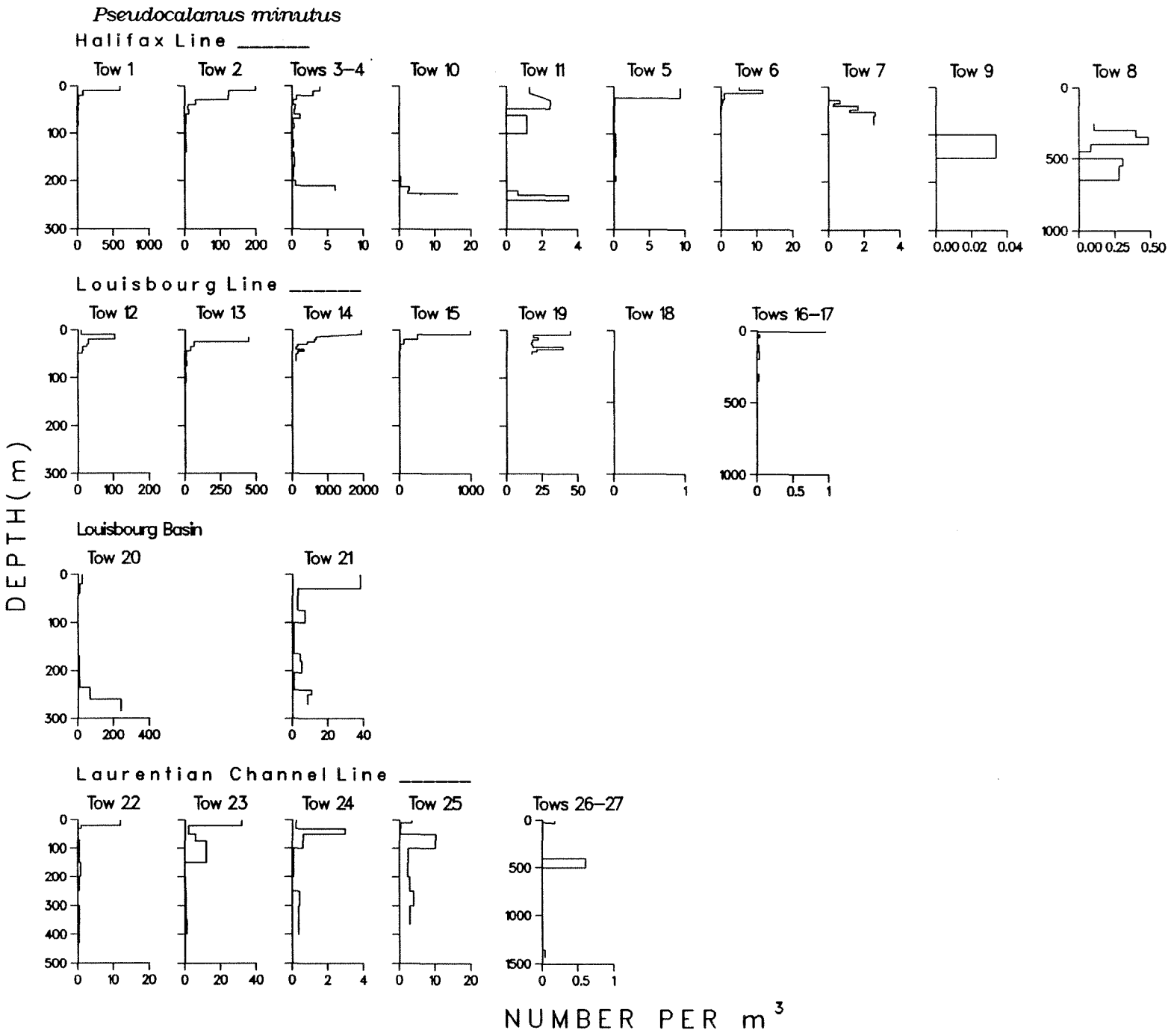

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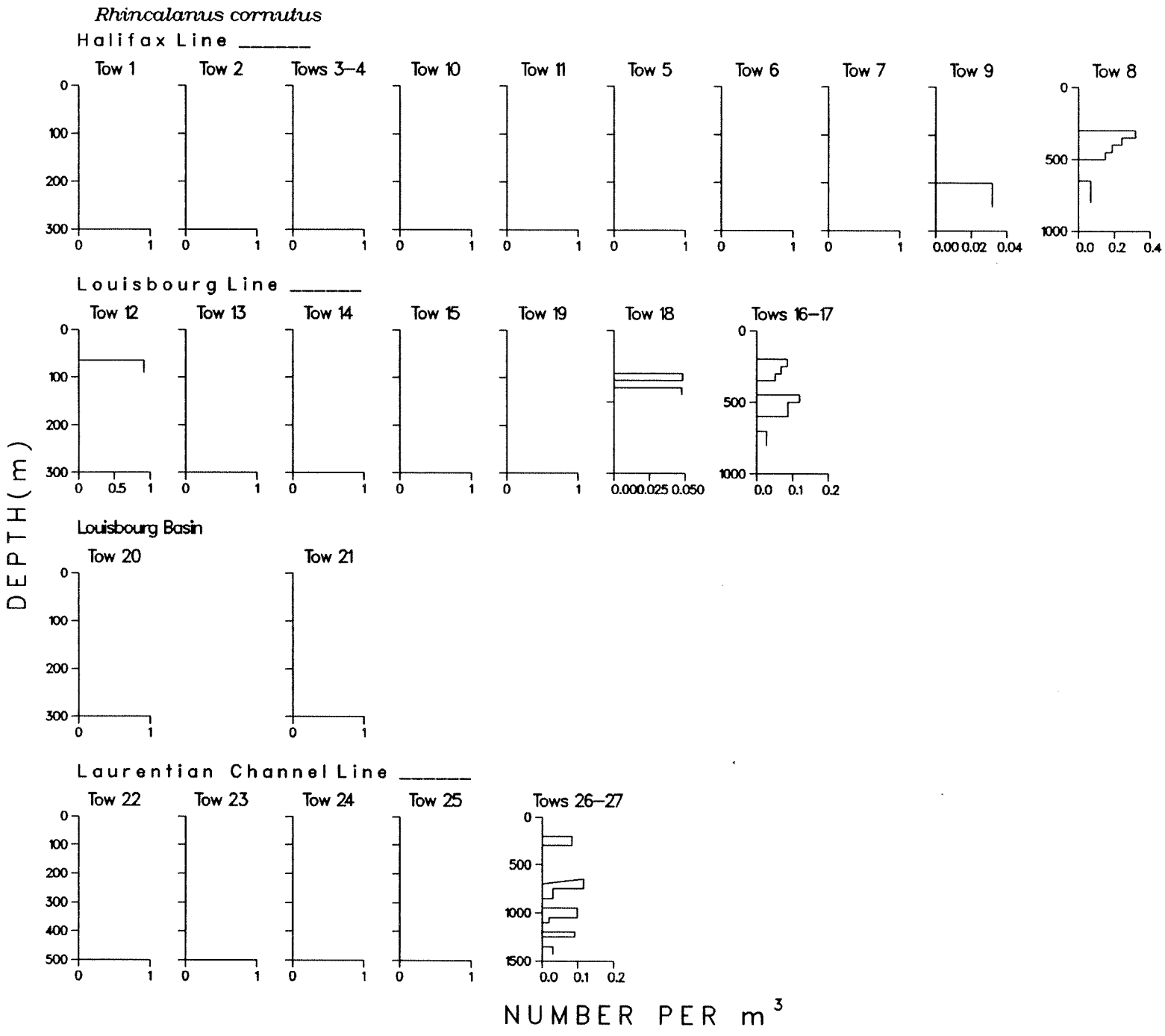

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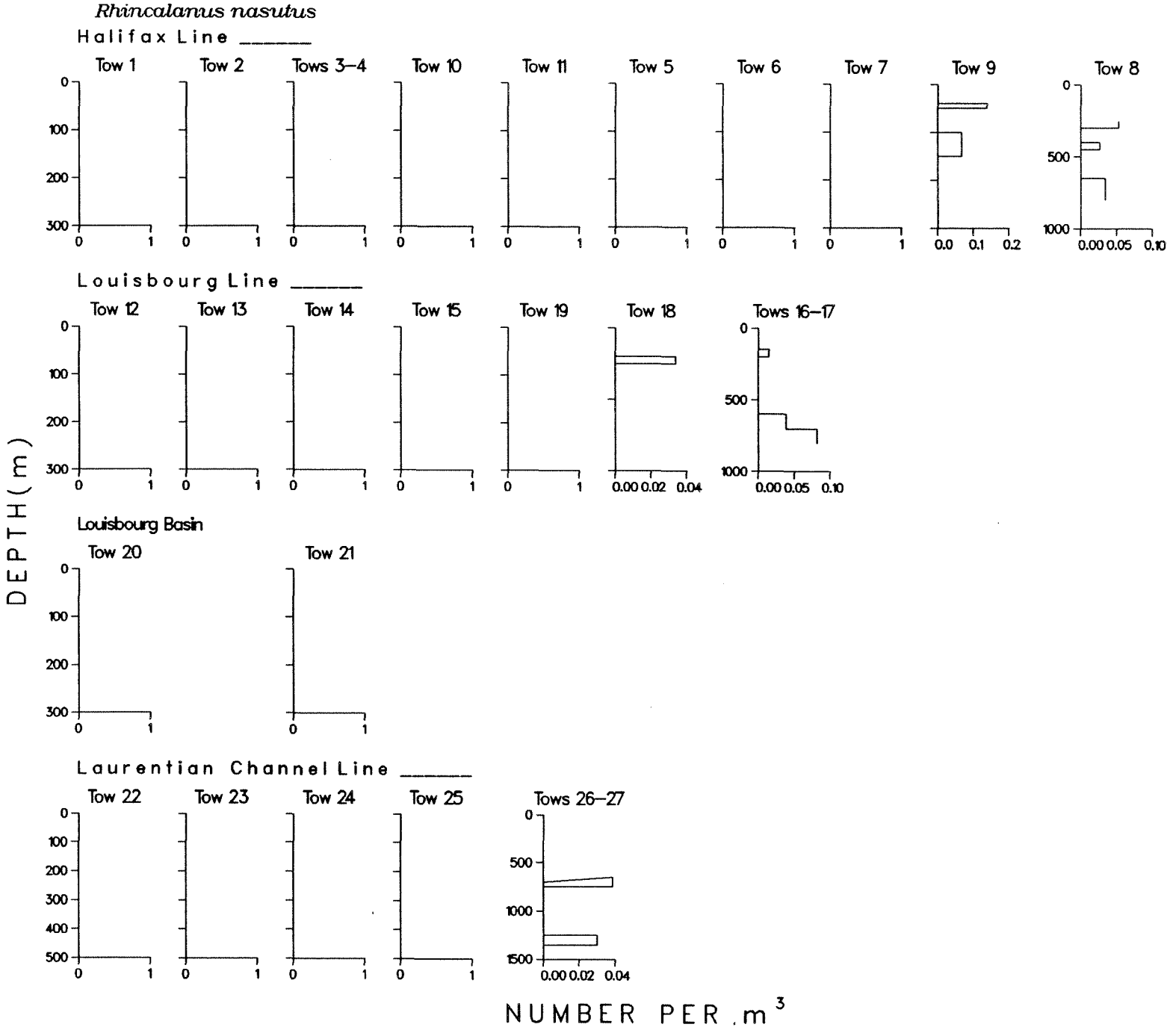

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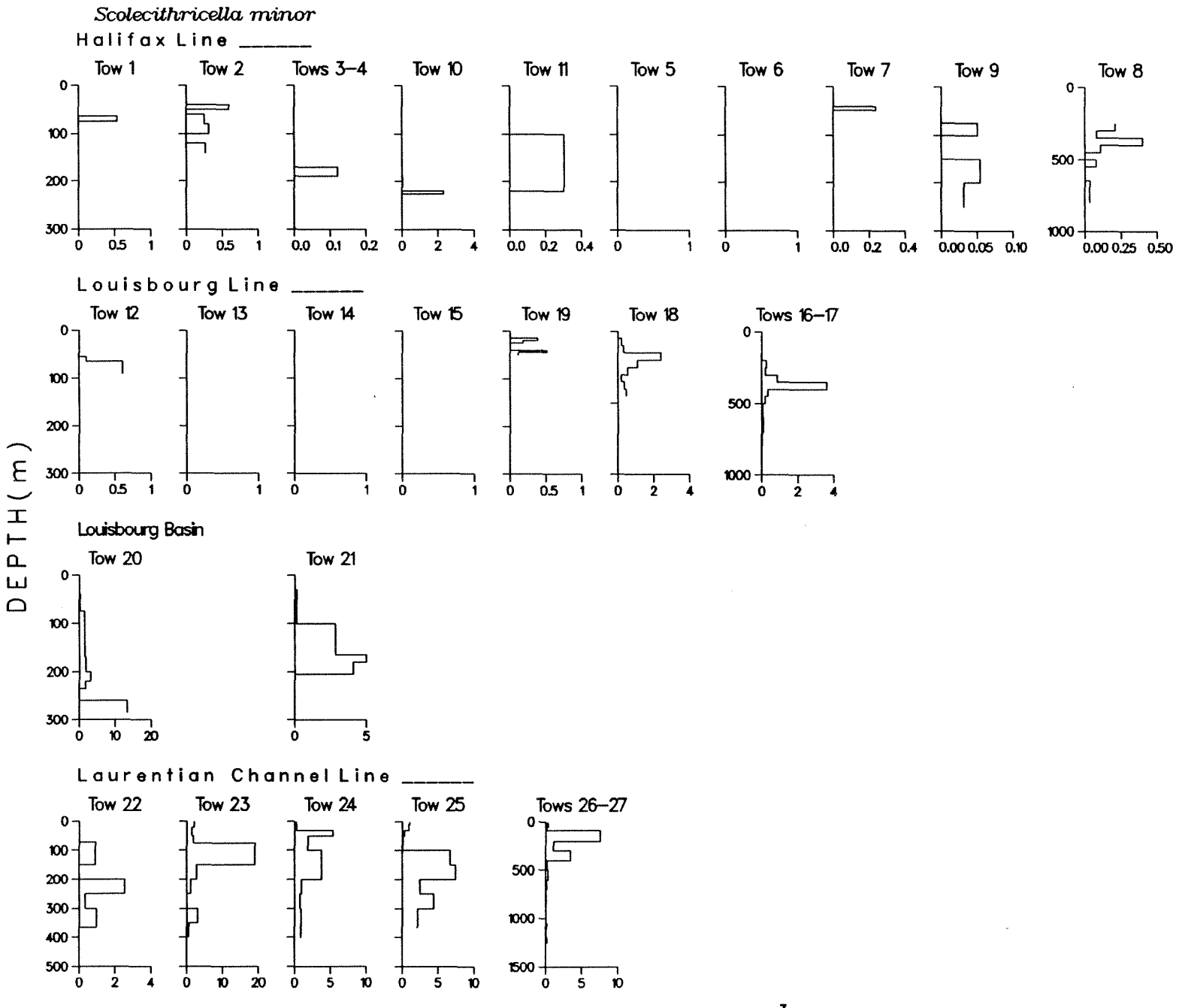

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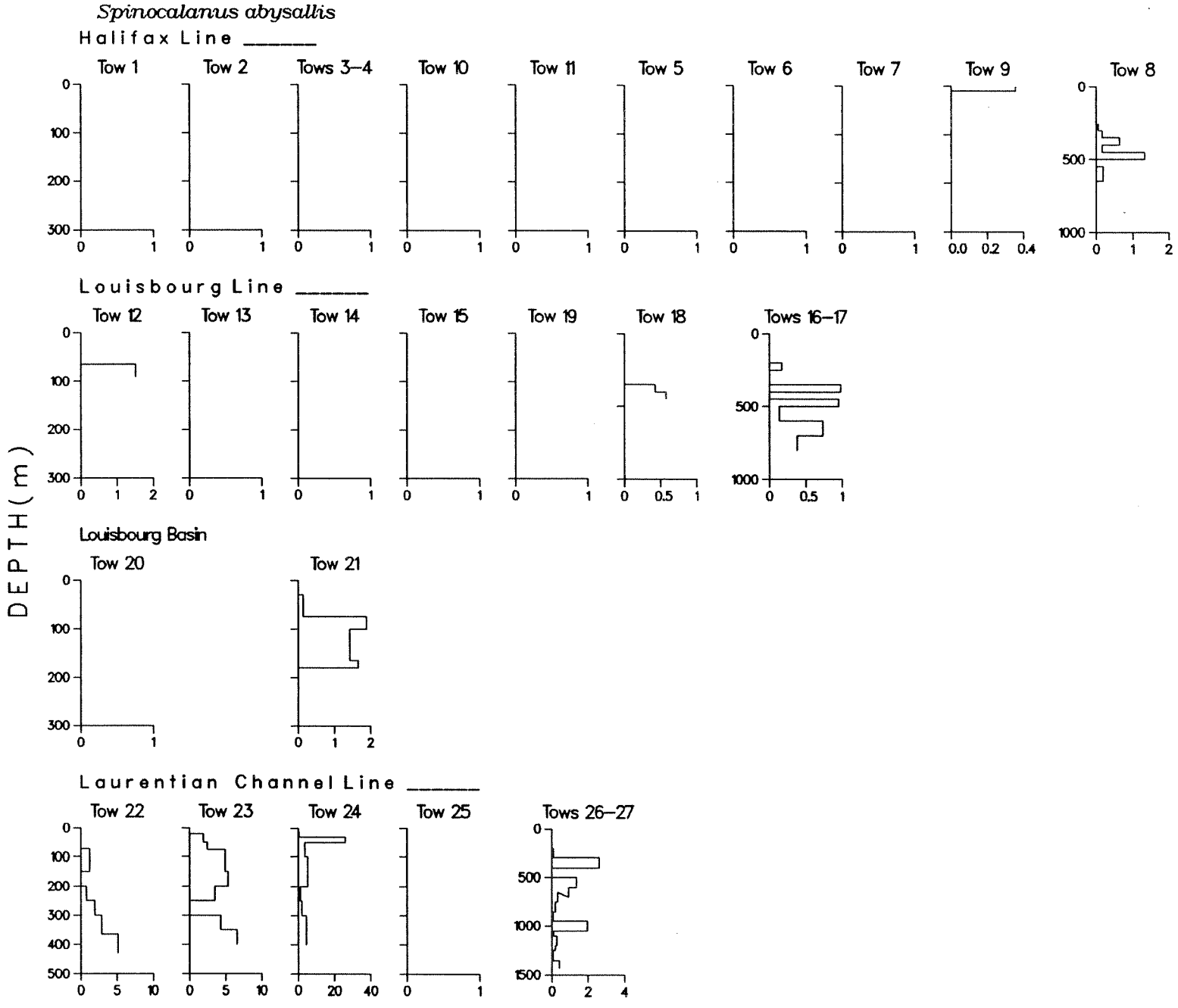

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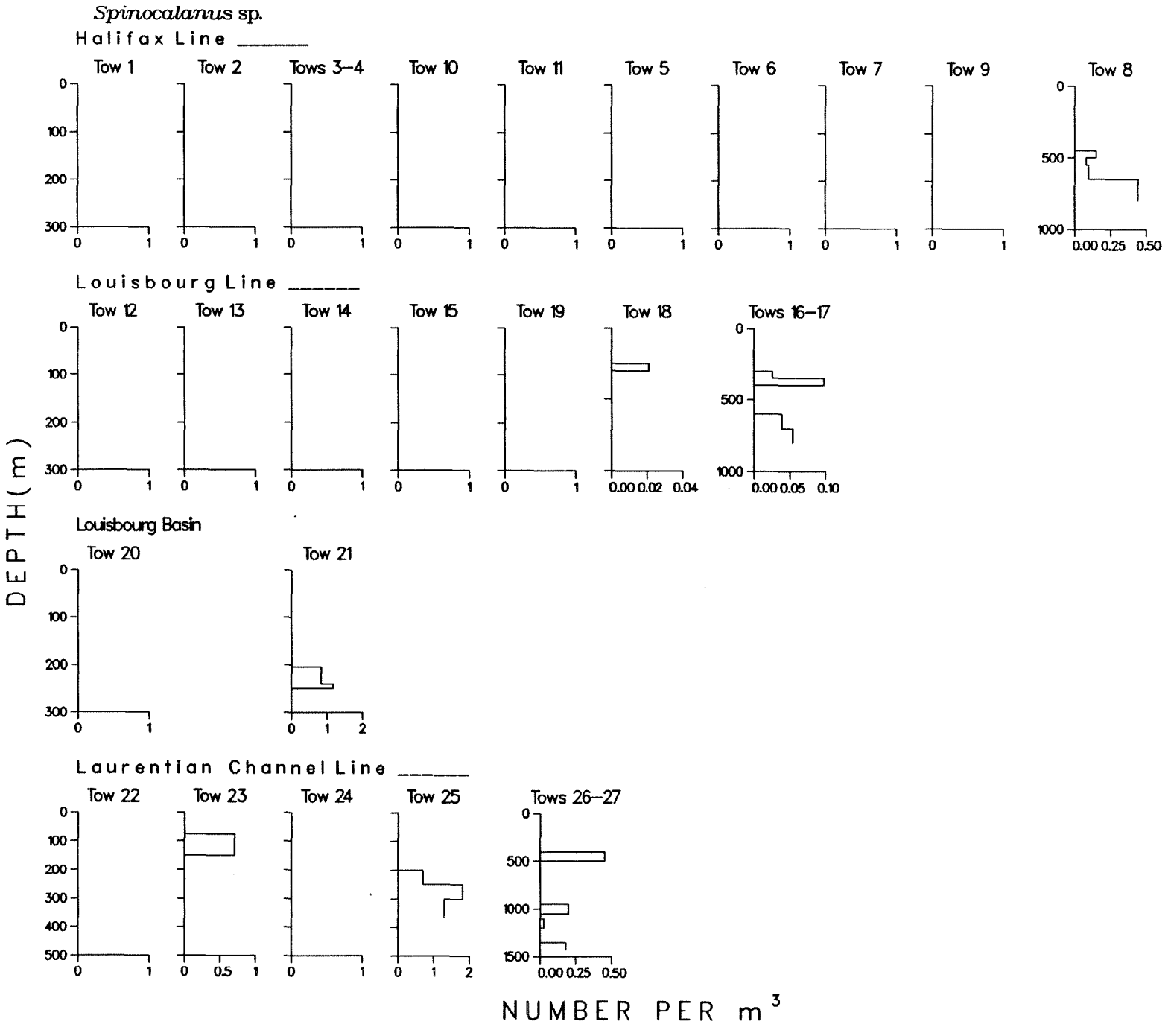

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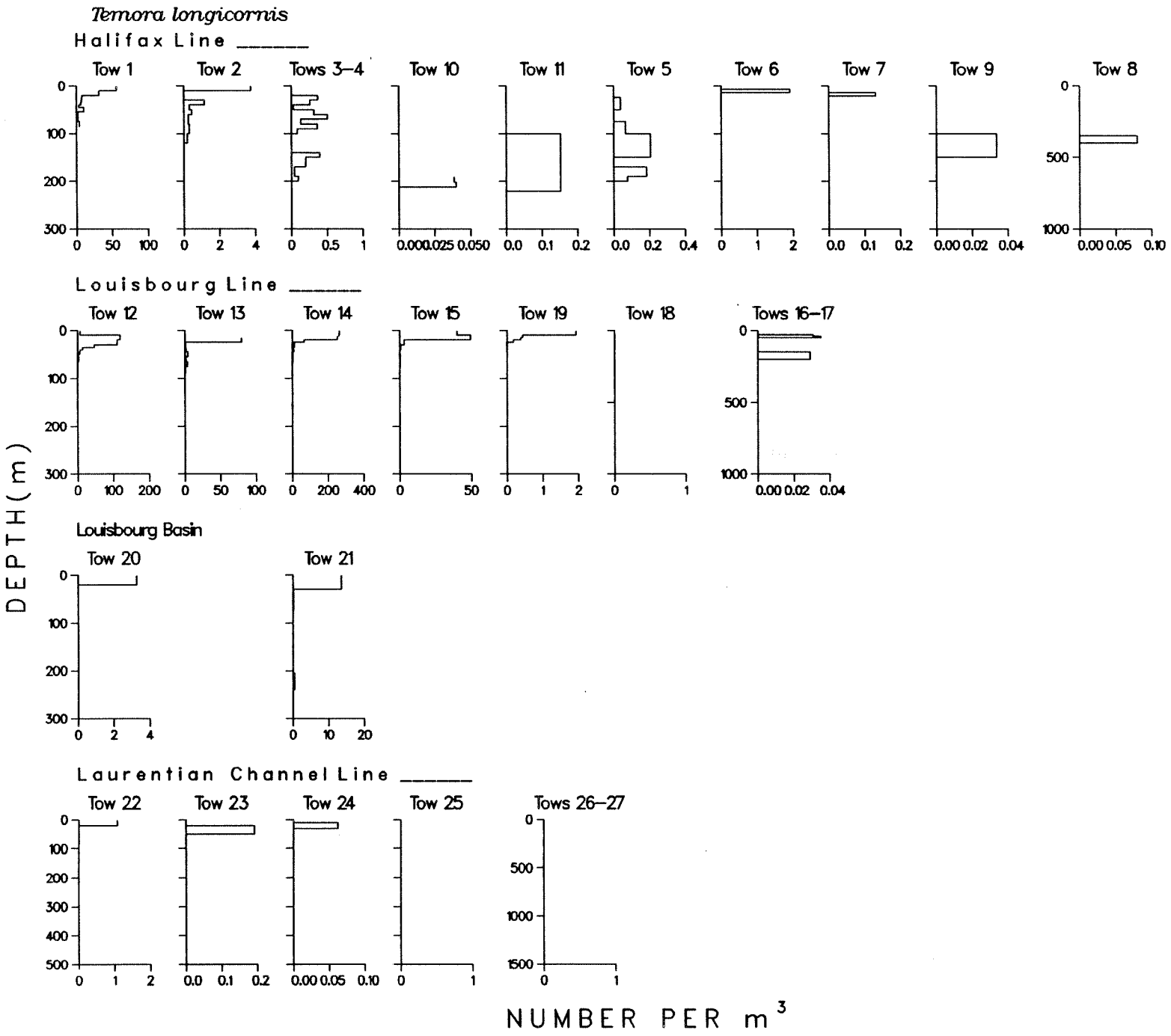

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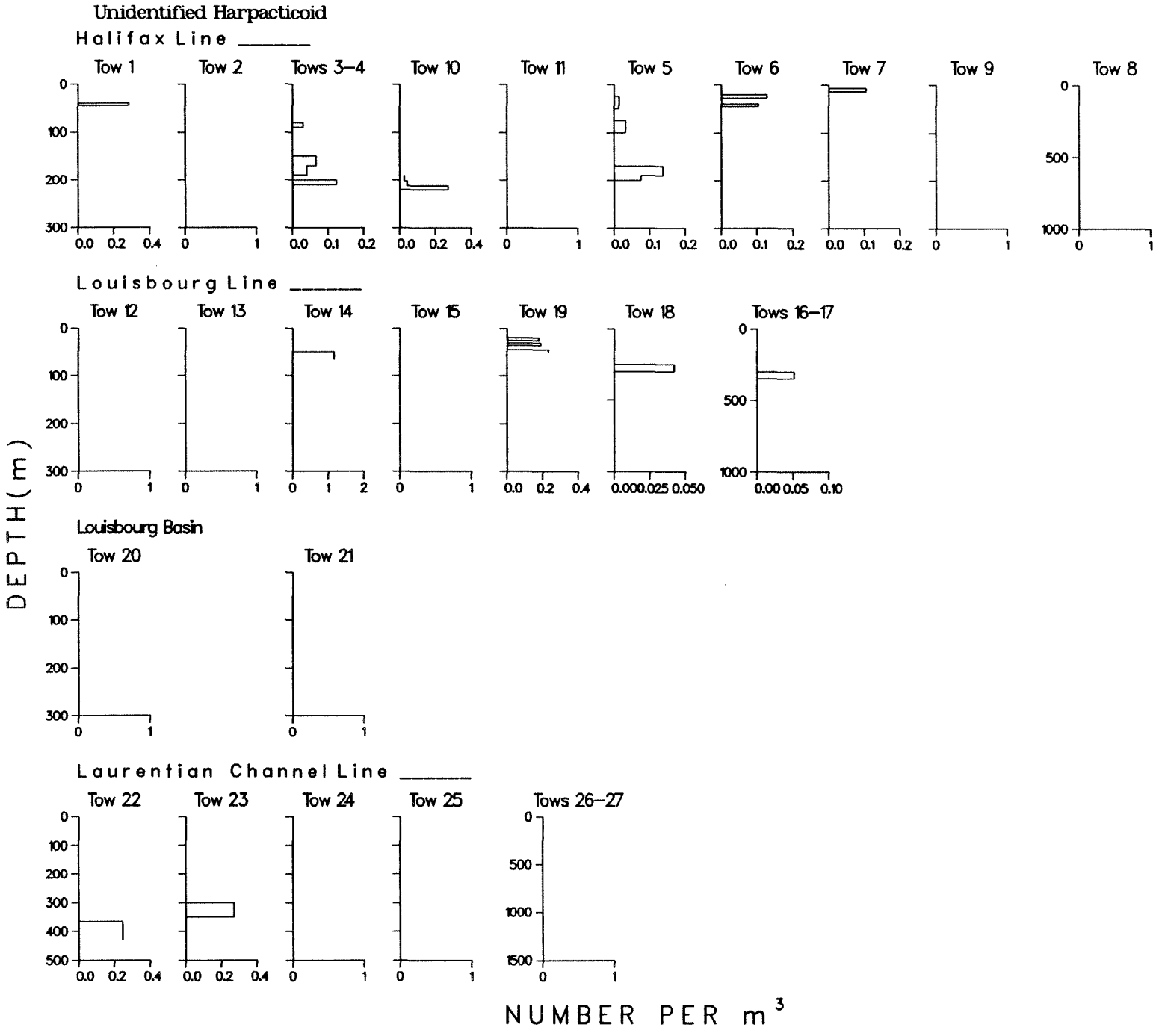

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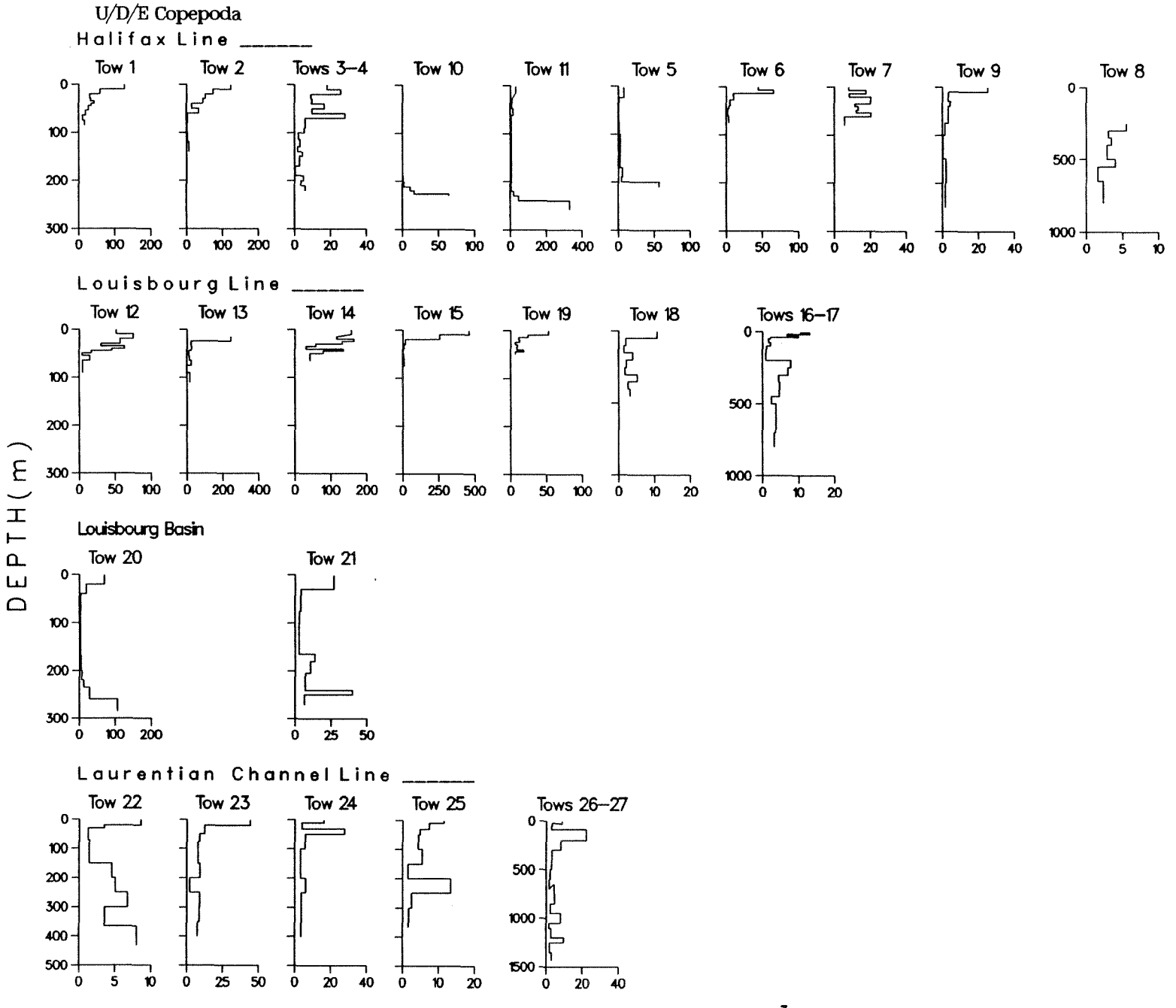

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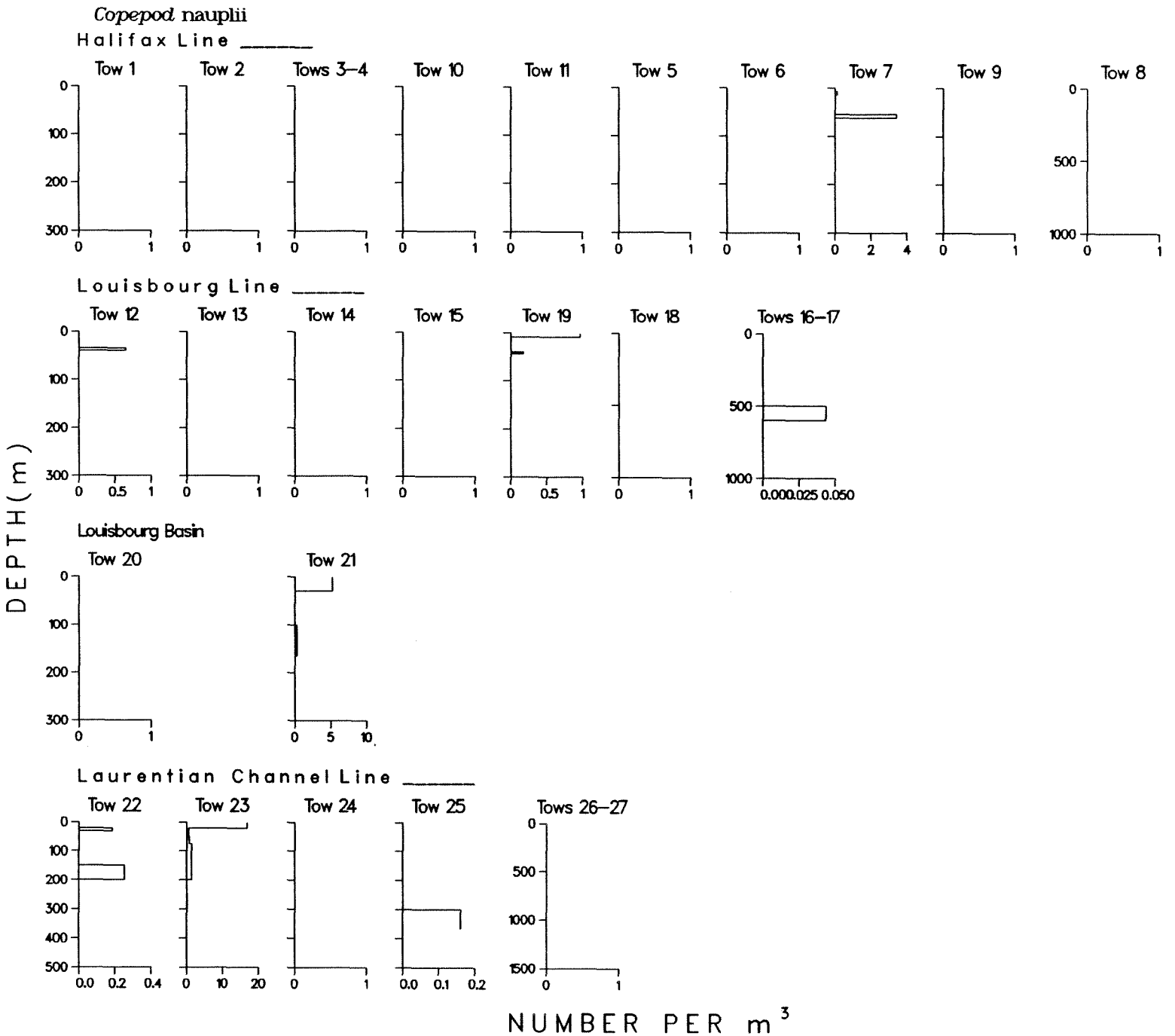

Fig. 4. Length frequencies for: a) amphipoda;
b) mysidacea;
euphausiacea c) *Meganyctiphanes norvegica;*
d) *Thysanoessa inermis;*
e) *T. longicaudata;*
f) Chaetognatha;
and three fish g) *Benthosema glaciale;*
h) *Cyclothone* sp.;
i) *Merluccius bilinearis*).

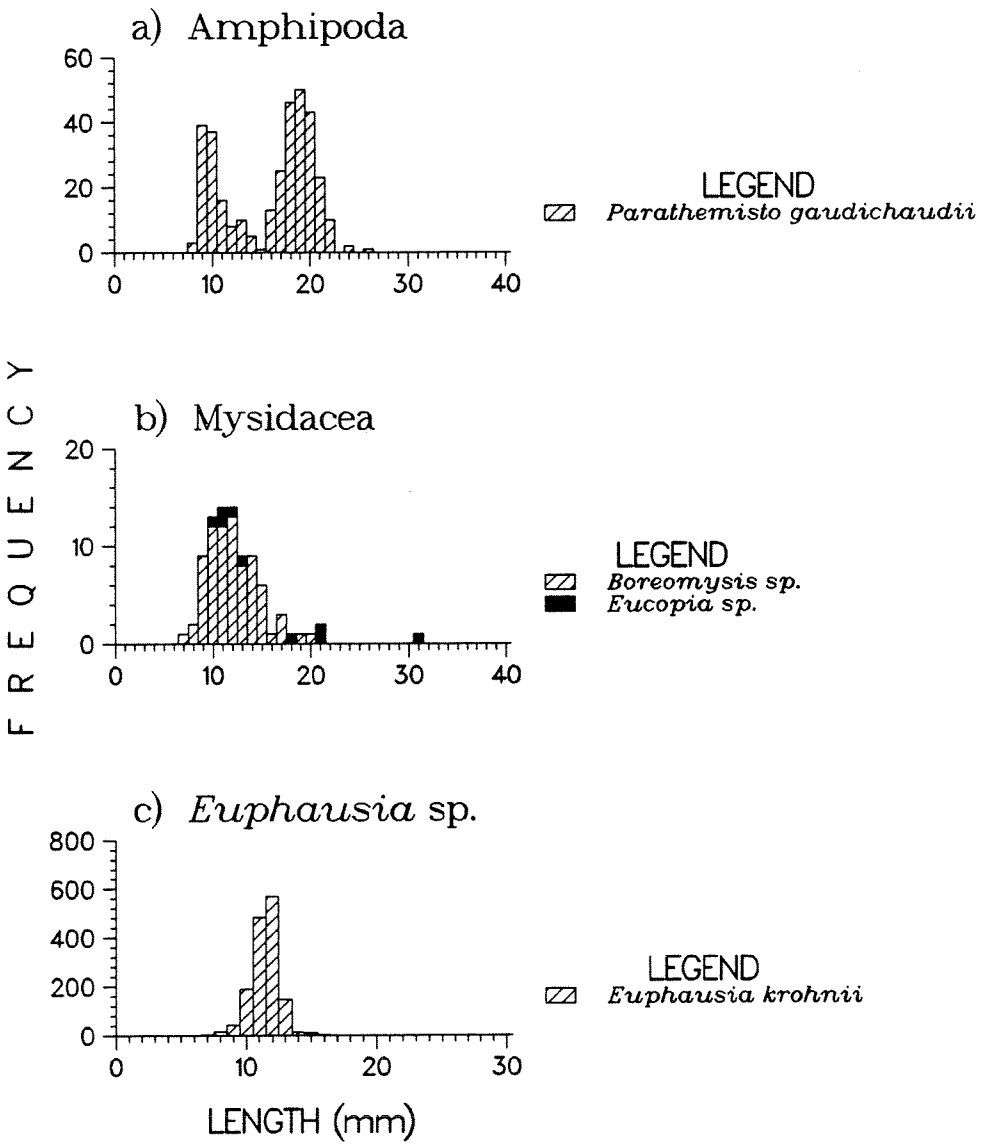


Fig. 4. Continued

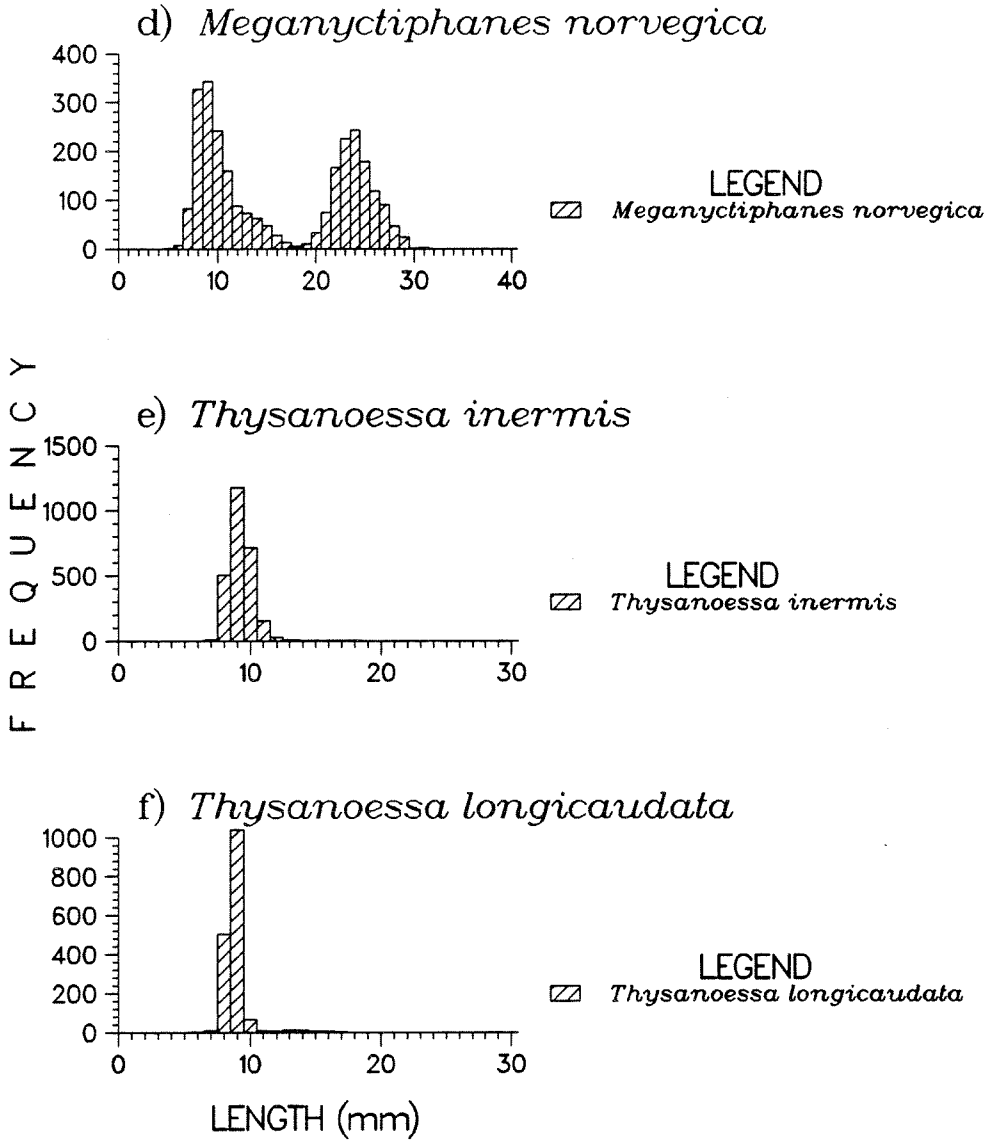


Fig. 4. Continued

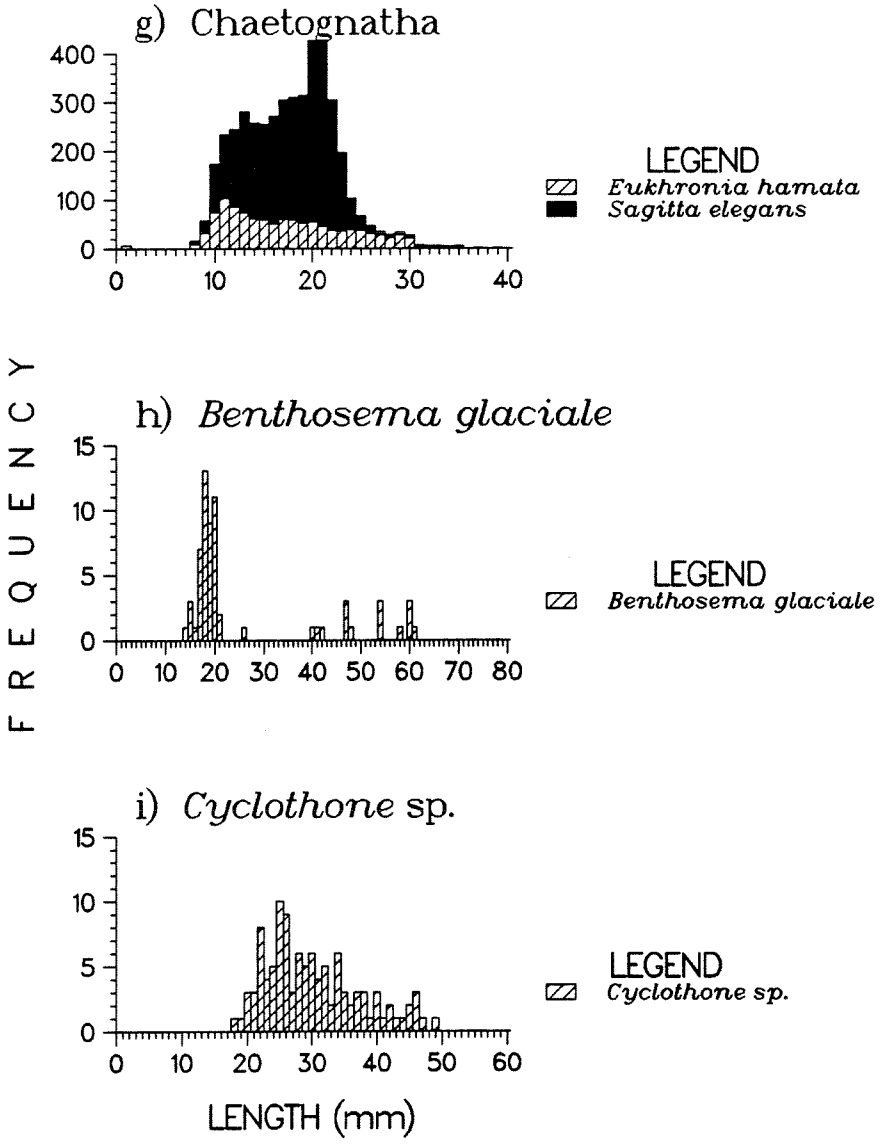


Fig. 4. Continued

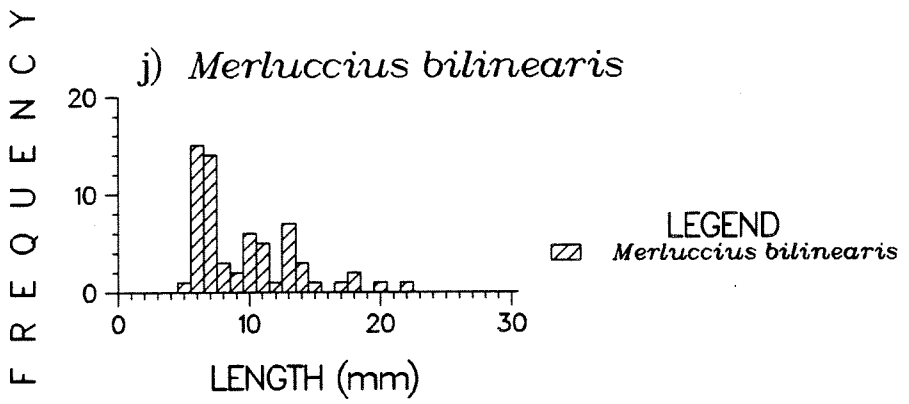


Fig. 4. Continued

**Table 2. Centroid ± standard deviations for length measurements(mm) of stages of *Calanus* spp..**

*Calanus finmarchicus*

| Sample | Male | Female | V | IV | III | II | I |
|---|---|---|---|---|---|---|---|
| | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) |
| 10-2 | | | 2.170 ± .154 (357) | 1.660 ± .189 ( 23) | | | |
| 10-3 | | 2.581 ± .173 ( 69) | 2.190 ± .151 (447) | 1.592 ± .106 ( 18) | | | |
| 10-4 | | 2.519 ± .145 ( 38) | 2.179 ± .159 (459) | 1.723 ± .232 ( 33) | | | |
| 10-5 | | 2.504 ± .170 ( 10) | 2.198 ± .154 (478) | 1.956 ± .206 ( 23) | | | |
| 10-6 | | | 2.162 ± .145 (483) | 1.930 ± .236 ( 20) | | | |
| 10-7 | | | 2.172 ± .158 (397) | 1.948 ± .156 ( 23) | | | |
| 10-8 | | 2.464 ± .161 ( 14) | 2.193 ± .152 (541) | 1.824 ± .250 ( 15) | | | |
| 10-9 | | 2.583 ± .199 ( 24) | 2.128 ± .154 (132) | 1.584 ± .189 ( 21) | | | |
| 10-10 | | | 2.109 ± .177 ( 35) | 1.584 ± .146 ( 22) | | | |
| 11-2 | | | 2.197 ± .163 (376) | 1.965 ± .195 ( 10) | | | |
| 11-3 | | | 2.172 ± .154 (577) | 1.971 ± .143 ( 31) | | | |
| 11-4 | | 2.467 ± .154 ( 11) | 2.156 ± .158 (287) | 1.839 ± .211 ( 16) | | | |
| 11-5 | | 2.583 ± .155 ( 30) | 2.161 ± .169 (169) | 1.692 ± .220 ( 27) | | | |
| 11-6 | | 2.524 ± .164 ( 46) | 2.155 ± .167 (180) | | | | |
| 11-7 | | 2.480 ± .171 ( 88) | 2.145 ± .169 (233) | 1.604 ± .114 ( 22) | | | |
| 11-8 | | 2.478 ± .126 ( 46) | 2.171 ± .168 (240) | 1.552 ± .180 ( 26) | | | |
| 11-10 | | | 2.154 ± .169 (161) | 1.825 ± .236 ( 12) | | | |
| 20-2 | | | 2.178 ± .172 (127) | 2.001 ± .103 ( 47) | | | |
| 20-3 | | | 2.155 ± .153 (105) | 2.021 ± .072 ( 89) | | | |
| 20-4 | | | 2.154 ± .157 (145) | 2.022 ± .077 (106) | | | |
| 20-5 | | | 2.154 ± .147 ( 96) | 2.024 ± .075 ( 76) | | | |
| 20-6 | | | 2.143 ± .158 ( 97) | 2.017 ± .099 (126) | | | |
| 20-7 | | | 2.245 ± .218 ( 54) | 1.998 ± .119 ( 44) | | | |
| 20-8 | | | 2.193 ± .174 (102) | 2.016 ± .098 ( 54) | | | |
| 20-9 | | 2.652 ± .194 ( 45) | 2.241 ± .189 (154) | 1.839 ± .172 ( 66) | 1.218 ± .075 ( 14) | .818 ± .036 ( 18) | |
| 20-10 | 2.400 ± .134 ( 11) | 2.548 ± .169 ( 62) | 2.202 ± .188 ( 57) | 1.790 ± .175 ( 79) | 1.217 ± .061 ( 37) | .871 ± .039 ( 43) | .630 ± .039 ( 42) |

## *Calanus glacialis*

| Sample | V | IV |
|---|---|---|
| | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) |
| 10-2 | 2.761 ± .205 ( 12) | |
| 10-3 | 2.998 ± .325 ( 26) | 2.370 ± .143 ( 19) |
| 10-4 | 3.019 ± .313 ( 34) | 2.295 ± .106 ( 30) |
| 10-5 | 2.912 ± .256 ( 38) | 2.370 ± .170 ( 27) |
| 10-6 | 2.902 ± .280 ( 44) | 2.349 ± .136 ( 33) |
| 10-7 | 2.891 ± .267 ( 31) | 2.308 ± .105 ( 26) |
| 10-8 | 2.980 ± .314 ( 56) | 2.364 ± .139 ( 26) |
| 11-2 | 2.734 ± .183 ( 31) | 2.354 ± .135 ( 24) |
| 11-3 | 2.886 ± .254 ( 60) | 2.338 ± .141 ( 37) |
| 11-4 | 2.937 ± .259 ( 23) | 2.354 ± .142 ( 21) |
| 11-5 | 2.835 ± .202 ( 14) | |
| 11-6 | 2.695 ± .113 ( 10) | 2.377 ± .194 ( 10) |
| 11-7 | 2.729 ± .170 ( 13) | |
| 11-10 | 2.797 ± .198 ( 17) | 2.357 ± .282 ( 14) |
| 20-2 | 3.048 ± .291 ( 64) | 2.318 ± .109 (103) |
| 20-3 | 3.072 ± .276 ( 65) | 2.318 ± .116 (145) |
| 20-4 | 3.022 ± .269 ( 53) | 2.341 ± .135 (151) |
| 20-5 | 3.003 ± .285 ( 35) | 2.324 ± .131 (128) |
| 20-6 | 2.994 ± .239 ( 43) | 2.294 ± .107 (120) |
| 20-7 | 3.167 ± .251 ( 19) | 2.340 ± .165 ( 53) |
| 20-8 | 2.897 ± .265 ( 41) | 2.343 ± .141 ( 80) |
| 20-9 | 2.900 ± .388 ( 32) | 2.354 ± .129 ( 34) |
| 20-10 | | 2.322 ± .127 ( 29) |

## *Calanus hyperboreus*

| Sample | IV | III | II |
|---|---|---|---|
| | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) | Cent. ± S.D. ( N ) |
| 11-2 | | 3.169 ± .211 ( 11) | |
| 11-3 | | 3.086 ± .165 ( 12) | |
| 11-4 | | 3.179 ± .159 ( 11) | |
| 20-2 | 4.500 ± .329 ( 23) | 3.265 ± .213 ( 78) | |
| 20-3 | 4.513 ± .225 ( 13) | 3.291 ± .192 ( 86) | |
| 20-4 | 4.650 ± .284 ( 17) | 3.257 ± .179 (119) | |
| 20-5 | | 3.281 ± .178 ( 91) | |
| 20-6 | | 3.240 ± .171 (105) | 2.253 ± .120 ( 17) |
| 20-7 | | 3.300 ± .179 ( 26) | 2.258 ± .124 ( 23) |
| 20-8 | 4.348 ± .527 ( 18) | 3.296 ± .176 ( 75) | |
| 20-9 | | 3.296 ± .120 ( 23) | |
| 20-10 | | 3.272 ± .111 ( 23) | |

Table 2. Number and biomass $m^{-3}$ and $m^{-2}$ for samples taken with the BIONESS over the Nova Scotian shelf. Depth1 is the depth at which the sampling started and Depth2 is the depth when it stopped for each sample. Volume of water filtered and total biomass $m^{-3}$ for each depth strata sampled, date of the sample and the latitude and longitude for the tows are given.

| TOW 1 17/09/85 1800H | 44 21.24 N 63 17.55 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 10.0 | 20.0 | 30.0 | 35.0 | 40.0 | 45.0 | 55.0 | 65.0 | 75.0 | |
| DEPTH2 (M) | 10.0 | 20.0 | 30.0 | 35.0 | 40.0 | 45.0 | 55.0 | 65.0 | 75.0 | 85.0 | |
| VOLUME OF WATER SAMPLED (M3) | 50. | 91. | 83. | 45. | 50. | 47. | 78. | 111. | 118. | 66. | |
| TOTAL BIOMASS (G/M3) | .199 | .101 | .523 | .202 | .220 | .157 | .067 | .160 | .194 | .175 | 17.088 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .000 | .000 | .001 | .002 | .002 | .002 | .001 | .002 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED/DAMAGED MEDUSA | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | .00 | .00 | 1. |
| LIMACINA BULIMOIDES | .00 | .00 | 488.94 | 3.89 | .80 | .28 | .00 | .00 | .00 | .00 | 4914. |
| LIMACINA HELICOIDES | 47.22 | 74.01 | 10.29 | 1.41 | 3.21 | 1.42 | 5.47 | 1.92 | 1.63 | .00 | 1435. |
| LIMACINA INFLATA | .00 | 3.52 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .81 | 43. |
| LIMACINA LESUEURII | 51.51 | 162.11 | 257.34 | .71 | 2.40 | .57 | 1.37 | 2.56 | 1.08 | 2.42 | 4802. |
| LIMACINA TROCHIFORMIS | 12.88 | 52.86 | 393.73 | 1.06 | 3.21 | .28 | .34 | .00 | .00 | .81 | 4628. |
| GYMNOSOMATA | .00 | 7.05 | 5.15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 121. |
| BIVALVE LARVAE | 8.58 | .00 | .00 | .00 | .80 | .00 | .68 | .00 | .00 | .00 | 96. |
| PODON LEUCKARTI | .00 | .00 | .00 | .35 | .80 | .57 | 1.37 | .64 | .54 | .00 | 34. |
| DAMAGED CLADOCERA | 4.29 | 3.52 | .00 | .35 | .00 | .28 | .00 | .00 | .00 | .00 | 81. |
| PODON INTERMEDIUS | .00 | .00 | .00 | .00 | .80 | .00 | .00 | .00 | .00 | .00 | 4. |
| ACARTIA LONGIREMIS | 25.75 | 14.10 | 7.72 | 2.47 | 7.21 | .85 | 13.68 | 6.41 | 1.08 | .81 | 748. |
| ANOMALOCERA PATERSONII | .00 | .00 | .00 | .71 | .00 | .00 | .00 | .00 | .00 | .00 | 3. |
| CALANUS FINMARCHICUS-TOTAL | 94.43 | 370.04 | 437.47 | 103.49 | 32.06 | 6.52 | 18.46 | 137.10 | 137.65 | 101.66 | 13678. |
| CALANUS FINMARCHICUS (D) | .00 | 10.57 | 56.61 | 13.77 | 3.21 | .00 | .34 | 1.28 | .54 | 1.61 | 794. |
| CALANUS FINMARCHICUS (G) | .00 | 10.57 | 20.59 | 3.53 | 5.61 | .00 | .00 | .64 | .00 | .00 | 363. |
| CALANUS FINMARCHICUS (S) | .00 | 7.05 | 2.57 | 1.77 | .80 | .57 | .00 | .00 | 2.71 | 1.61 | 155. |
| CALANUS FINMARCHICUS VIM | .00 | 10.57 | 5.15 | .71 | .80 | .00 | .00 | .00 | .54 | .00 | 170. |
| CALANUS FINMARCHICUS VIF | .00 | 28.19 | 79.77 | 19.07 | 9.62 | .57 | .34 | 1.92 | 3.25 | 3.23 | 1313. |
| CALANUS FINMARCHICUS V | 17.17 | 197.36 | 337.11 | 83.00 | 20.84 | 4.82 | 16.75 | 131.97 | 117.05 | 85.53 | 9572. |
| CALANUS FINMARCHICUS IV | 55.80 | 77.53 | 12.87 | .71 | .00 | 1.13 | 1.03 | 3.20 | 16.80 | 12.91 | 1810. |
| CALANUS FINMARCHICUS III | 12.88 | 21.15 | 2.57 | .00 | .80 | .00 | .00 | .00 | .00 | .00 | 369. |
| CALANUS FINMARCHICUS II | 8.58 | 17.62 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 262. |
| CALANUS FINMARCHICUS I | .00 | 17.62 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 176. |
| CALANUS FINMARCHICUS DAMAGED | .00 | .00 | .00 | .00 | .00 | .00 | .34 | .00 | .00 | .00 | 3. |
| CALANUS GLACIALIS V | .00 | .00 | .00 | .00 | .00 | .00 | .34 | 3.20 | 8.13 | 3.23 | 149. |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .71 | .00 | .28 | .68 | 3.84 | 5.42 | 2.42 | 128. |
| CALANUS GLACIALIS III | .00 | .00 | .00 | .35 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| CALANUS GLACIALIS DAMAGED | .00 | .00 | .00 | .00 | .00 | .00 | .34 | .00 | .00 | .00 | 3. |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | .68 | 7.05 | 5.42 | 3.23 | 163. |
| CALANUS HYPERBOREUS V | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .64 | .00 | .00 | 6. |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .00 | .00 | .68 | 4.48 | 3.79 | 2.42 | 113. |
| CANDACIA ARMATA | .00 | .00 | .00 | .35 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| CENTROPAGES TYPICUS | 120.19 | 3.52 | .00 | 1.41 | 3.21 | 1.99 | 2.74 | 2.56 | 2.71 | .00 | 1350. |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .64 | .00 | .00 | 6. |
| EURYTEMORA HERDMANI | 42.92 | 14.10 | 18.01 | 8.48 | 15.23 | 3.12 | 15.73 | 3.20 | 1.08 | .81 | 1092. |
| LUCICUTIA FLAVICORNIS | 4.29 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 42. |
| METRIDIA LUCENS | .00 | 7.05 | .00 | 2.12 | .00 | .00 | 1.37 | 5.13 | 9.75 | 24.21 | 485. |
| OITHONA ATLANTICA | .00 | .00 | 7.72 | 3.18 | .00 | .00 | .34 | 2.56 | .54 | .81 | 135. |
| OITHONA SIMILIS | .00 | 7.05 | 7.72 | 4.59 | 2.40 | 5.11 | 5.47 | 3.20 | 18.97 | 9.68 | 581. |
| PARACALANUS PARVUS | 184.57 | 49.34 | 2.57 | .00 | 3.21 | .85 | 1.71 | .00 | 1.63 | .81 | 2426. |
| PSEUDOCALANUS MINUTUS | 592.35 | 74.01 | 15.44 | 10.24 | 13.63 | 5.11 | 13.33 | 9.61 | 7.59 | 11.30 | 7381. |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .54 | .00 | 5. |
| TEMORA LONGICORNIS | 55.80 | 31.72 | 7.72 | 6.71 | 6.41 | 3.40 | 10.26 | 1.92 | 2.17 | 4.03 | 1218. |
| UNID/DAM/EXO COPEPOD | 128.77 | 59.91 | 30.88 | 34.61 | 44.09 | 35.18 | 27.69 | 19.22 | 10.84 | 16.14 | 3503. |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | .00 | .00 | 1. |
| PARATHEMISTO SP. | .00 | 3.52 | .00 | .00 | .80 | 3.97 | .00 | 1.28 | .00 | .00 | 71. |
| M. NORVEGICA CALYPTOSIS | .00 | 3.52 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 35. |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | 32.06 | 24.68 | 5.81 | .64 | .00 | .00 | 348. |
| THYSANOESSA RASCHII FURCILIA | .00 | .00 | .00 | .00 | .00 | 3.97 | .00 | .00 | .00 | .00 | 19. |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | 5.15 | 7.77 | 44.09 | 4.82 | .34 | 1.28 | .54 | .00 | 356. |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | 3.18 | .00 | .57 | .00 | .00 | .00 | .00 | 18. |
| EUPHAUSIID EGGS | 68.68 | 14.10 | .00 | .00 | .80 | .00 | .00 | .00 | .00 | .00 | 831. |
| DAMAGED EUPHAUSID | .00 | .00 | .00 | .35 | .00 | 2.27 | .68 | .00 | .00 | .81 | 28. |
| DECAPOD LARVAE | .00 | .00 | .00 | .00 | .80 | .00 | .00 | .00 | .00 | .00 | 4. |
| SAGITTA SETOSA | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | .00 | .00 | 1. |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .80 | .00 | .00 | .00 | .00 | .00 | 4. |
| OIKOPLEURA VANHOEFFENI | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .54 | .00 | 5. |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .00 | .00 | .34 | .00 | .00 | .00 | 3. |

TOW 1 17/09/85 1800H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | | |
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .090 |
| CTENOPHORA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .018 | .000 | .000 | .180 |
| CLIONE SP. | .000 | .000 | .000 | .022 | .000 | .043 | .026 | .000 | .008 | .000 | .664 |
| TOMOPTERIS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .015 | .151 |
| AMPHIPODA | .000 | .000 | .000 | .000 | .020 | .021 | .026 | .018 | .000 | .000 | .643 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .000 | .020 | .021 | .026 | .018 | .000 | .000 | .643 |
| EUPHAUSIACEA | .040 | .000 | .000 | .044 | .240 | .574 | .282 | .486 | .229 | .303 | 17.695 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .000 | .000 | .000 | .106 | .026 | .000 | .008 | .000 | .873 |
| STYLOCHEIRON SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .303 | 3.026 |
| THYSANOESSA INERMIS | .040 | .000 | .000 | .022 | .100 | .404 | .256 | .486 | .220 | .000 | 12.666 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .022 | .140 | .064 | .000 | .000 | .000 | .000 | 1.131 |
| CHAETOGNATHA | .000 | .000 | .181 | .839 | 1.002 | .319 | .282 | 1.649 | 3.489 | 4.191 | 108.708 |
| SAGITTA ELEGANS | .000 | .000 | .181 | .839 | 1.002 | .319 | .282 | 1.649 | 3.489 | 4.191 | 108.708 |
| UNIDENTIFIED | .000 | .000 | .000 | .000 | .381 | .213 | .026 | .000 | .034 | .000 | 3.563 |
| PICES | .000 | .000 | .012 | .331 | .281 | .021 | .026 | .000 | .000 | .000 | 3.542 |
| MERLUCCIUS BILINEARIS | .000 | .000 | .012 | .331 | .281 | .021 | .026 | .000 | .000 | .000 | 3.542 |

| TOW 2 17/09/85 2230H | 44 12.54 N 63 10.11 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 80.0 | 100.0 | 120.0 | |
| DEPTH2 (M) | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 80.0 | 100.0 | 120.0 | 140.0 | |
| VOLUME OF WATER SAMPLED (M3) | 86. | 115. | 105. | 92. | 108. | 91. | 211. | 256. | 134. | 75. | |
| TOTAL BIOMASS (G/M3) | .436 | .383 | .446 | .303 | .134 | .096 | .063 | .073 | .052 | .058 | 22.908 |
| EUPHAUSIACEA BIOMASS (G/M3) | .139 | .165 | .128 | .171 | .071 | .051 | .025 | .033 | .026 | .016 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MEDUSA | .00 | .00 | .00 | .00 | .00 | .88 | .00 | .00 | .00 | .00 | 8. |
| UNIDENTIFIED/DAMAGED MEDUSA | .00 | .00 | .00 | .00 | .00 | .00 | 1.26 | .00 | .00 | .00 | 25. |
| LIMACINA BULIMOIDES | 3.73 | .00 | .00 | 1.74 | .89 | 1.75 | .76 | .31 | .00 | .00 | 102. |
| LIMACINA HELICOIDES | 3.73 | .00 | .00 | 5.80 | .30 | 1.31 | .25 | .31 | .20 | .00 | 126. |
| LIMACINA LESUEURII | 11.19 | 1.86 | .00 | 6.38 | .30 | 3.94 | .51 | .94 | .40 | .27 | 278. |
| LIMACINA TROCHIFORMIS | 7.46 | 5.57 | 3.05 | 6.96 | 1.19 | 2.19 | 1.52 | .31 | 1.00 | .27 | 325. |
| LIMACINA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .31 | .00 | .00 | 6. |
| GYMNOSOMATA | .00 | 1.86 | 1.52 | .58 | .59 | .44 | .00 | .00 | .60 | 1.07 | 83. |
| ACARTIA LONGIREMIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .20 | .00 | 3. |
| CALANUS FINMARCHICUS-TOTAL | 82.05 | 64.93 | 30.48 | 61.45 | 36.15 | 31.98 | 22.50 | 19.38 | 7.36 | 25.33 | 4561. |
| CALANUS FINMARCHICUS (D) | .00 | 1.86 | .00 | 1.16 | 2.37 | 1.31 | .00 | .63 | .00 | .53 | 90. |
| CALANUS FINMARCHICUS (G) | 3.73 | .00 | 7.62 | 2.32 | 2.07 | .00 | .00 | .31 | .00 | .00 | 163. |
| CALANUS FINMARCHICUS (S) | .00 | 3.71 | .00 | .00 | .30 | .00 | .51 | .00 | .00 | .00 | 50. |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .20 | .27 | 9. |
| CALANUS FINMARCHICUS VIF | 3.73 | 5.57 | 7.62 | 3.48 | 4.74 | 1.31 | .51 | .94 | .00 | .53 | 304. |
| CALANUS FINMARCHICUS V | 22.38 | 14.84 | 15.24 | 54.49 | 30.22 | 29.35 | 17.95 | 15.94 | 6.17 | 21.60 | 2898. |
| CALANUS FINMARCHICUS IV | 29.84 | 22.26 | 4.57 | 1.16 | .89 | .88 | 3.79 | 1.88 | 1.00 | 2.93 | 787. |
| CALANUS FINMARCHICUS III | 18.65 | 12.99 | 3.05 | .58 | .00 | .44 | .25 | .31 | .00 | .00 | 368. |
| CALANUS FINMARCHICUS II | .00 | 5.57 | .00 | .00 | .00 | .00 | .00 | .31 | .00 | .00 | 61. |
| CALANUS FINMARCHICUS I | 7.46 | 3.71 | .00 | 1.74 | .30 | .00 | .00 | .00 | .00 | .00 | 132. |
| CALANUS FINMARCHICUS DAMAGED | .00 | .00 | 1.52 | .00 | .89 | 3.07 | 1.01 | .31 | .60 | .27 | 98. |
| CALANUS GLACIALIS V | .00 | .00 | .00 | .58 | 3.26 | 1.31 | 1.01 | .63 | 1.00 | .80 | 120. |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .89 | 1.75 | 1.26 | 2.50 | 1.00 | 1.07 | 142. |
| CALANUS GLACIALIS DAMAGED | .00 | .00 | .00 | .00 | .30 | .00 | .00 | .00 | .00 | .00 | 2. |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | 1.52 | .94 | .40 | .80 | 73. |
| CALANUS HYPERBOREUS V | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .00 | 5. |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .00 | .00 | .76 | .94 | .40 | .80 | 57. |
| CENTROPAGES TYPICUS | 634.03 | 87.19 | 7.62 | 1.74 | 1.48 | 7.45 | .51 | 2.19 | .60 | .53 | 7471. |
| CLAUSOCALANUS FURCATUS | 7.46 | 159.54 | 112.76 | 4.64 | 5.33 | 2.63 | .51 | .63 | .00 | .53 | 2956. |
| EURYTEMORA HERDMANI | .00 | 1.86 | .00 | .00 | .00 | .44 | .51 | .00 | .20 | .00 | 37. |
| METRIDIA LONGA | .00 | .00 | .00 | .00 | .00 | .44 | .76 | 2.19 | 1.99 | 1.33 | 129. |
| METRIDIA LUCENS | 3.73 | 3.71 | 6.10 | 11.59 | 11.26 | 33.73 | 15.92 | 23.13 | 16.52 | 12.80 | 2068. |
| OITHONA ATLANTICA | .00 | .00 | 3.05 | 1.16 | .59 | 1.75 | 9.10 | 17.19 | 3.18 | 4.53 | 745. |
| OITHONA SIMILIS | 7.46 | .00 | .00 | 6.38 | 3.85 | 5.26 | .76 | .31 | .20 | .53 | 265. |
| PARACALANUS PARVUS | 78.32 | 102.03 | 18.29 | 1.16 | .89 | 4.82 | .51 | .00 | .20 | .80 | 2085. |
| PSEUDOCALANUS MINUTUS | 197.67 | 122.43 | 121.90 | 30.14 | 9.78 | 12.71 | 3.79 | 2.19 | 1.99 | 4.00 | 5185. |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .59 | .00 | .25 | .31 | .00 | .27 | 22. |
| TEMORA LONGICORNIS | 3.73 | .00 | .00 | 1.16 | .30 | .44 | .25 | .31 | .20 | .00 | 71. |
| UNID/DAM/EXO COPEPOD | 123.08 | 74.20 | 51.81 | 45.80 | 14.81 | 34.17 | 2.53 | 1.56 | 3.38 | 7.20 | 3732. |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .89 | .00 | .00 | .00 | .00 | .00 | 8. |
| PARATHEMISTO SP. | .00 | .00 | 1.52 | 2.90 | 1.19 | .44 | .00 | .31 | .20 | .00 | 70. |
| M. NORVEGICA FURCILIA | 18.65 | 27.83 | 25.90 | 2.32 | .30 | .88 | .00 | .00 | .00 | .00 | 758. |
| THYSANOESSA INERMIS FURCILIAE | .00 | .00 | .00 | .00 | .59 | .44 | .25 | .31 | .60 | .00 | 33. |
| T. LONGICAUDATA FURCILIAE | 3.73 | .00 | 3.05 | .58 | .30 | .00 | .00 | .00 | .00 | .00 | 76. |
| EUPHAUSIID EGGS | 3.73 | 51.94 | 10.67 | .00 | .00 | .00 | .25 | .94 | .40 | 1.07 | 716. |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .00 | 5. |
| DAMAGED FURCILIAE | .00 | .00 | 3.05 | .00 | .00 | .00 | .25 | .31 | .00 | .00 | 41. |
| SAGITTA SP. | 3.73 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 37. |
| SAGITTA SETOSA | .00 | .00 | .00 | .58 | .00 | .00 | .00 | .00 | .00 | .00 | 5. |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .000 | .000 | .043 | .000 | .000 | .000 | .8 |
| UNIDENTIFIED MEDUSA | .851 | .009 | .010 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 8.6 |
| CTENOPHORA | .070 | .539 | .867 | .293 | .019 | .000 | .000 | .000 | .000 | .013 | 18.1 |

TOW 2 17/09/85 2230H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| CLIONE SP. | .000 | .000 | .010 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .095 |
| AMPHIPODA | .023 | .009 | .067 | .033 | .009 | .033 | .005 | .004 | .007 | .000 | 2.056 |
| PARATHEMISTO GAUDICHAUDII | .023 | .009 | .067 | .033 | .009 | .033 | .005 | .004 | .007 | .000 | 2.056 |
| EUPHAUSIACEA | 3.427 | 2.339 | 2.895 | 8.239 | 2.250 | .778 | .972 | 2.723 | 1.201 | .587 | 308.925 |
| MEGANYCTIPHANES NORVEGICA | 3.427 | 2.313 | 2.771 | .587 | .306 | .274 | .109 | .059 | .097 | .067 | 103.399 |
| THYSANOESSA INERMIS | .000 | .026 | .124 | 7.652 | 1.944 | .504 | .863 | 2.664 | 1.104 | .520 | 205.525 |
| CHAETOGNATHA | .606 | .478 | 2.571 | 1.891 | .222 | .110 | .137 | .156 | .179 | .360 | 75.444 |
| SAGITTA ELEGANS | .606 | .478 | 2.571 | 1.891 | .222 | .110 | .137 | .156 | .179 | .360 | 75.444 |
| PICES | .117 | .070 | .029 | .000 | .000 | .011 | .009 | .000 | .000 | .000 | 2.446 |
| MERLUCCIUS BILINEARIS | .117 | .070 | .029 | .000 | .000 | .011 | .009 | .000 | .000 | .000 | 2.446 |

| TOW 3 18/09/85 0830H | 43 59.10 N 62 58.87 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | |
| DEPTH2 (M) | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | |
| VOLUME OF WATER SAMPLED (M3) | 51. | 48. | 54. | 58. | 34. | 29. | 26. | 39. | 33. | 36. | |
| TOTAL BIOMASS (G/M3) | .108 | .014 | .017 | .026 | .048 | .011 | .032 | .006 | .008 | .005 | 2.765 |
| EUPHAUSIACEA BIOMASS (G/M3) | .003 | .003 | .006 | .009 | .019 | .004 | .019 | .000 | .003 | .002 | |
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .03 | .00 | .17 | .00 | .00 | .00 | 1. |
| LIMACINA HELICOIDES | .00 | .10 | .00 | .00 | .03 | .00 | .17 | .21 | .09 | .00 | 5. |
| LIMACINA INFLATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | . |
| LIMACINA LESUEURII | .00 | .42 | .14 | .00 | .00 | .03 | .25 | .03 | .03 | .08 | 9. |
| LIMACINA TROCHIFORMIS | .00 | .21 | .19 | .00 | .00 | .00 | .17 | .00 | .00 | .00 | 5. |
| GYMNOSOMATA | .00 | .42 | .09 | .03 | .09 | .03 | .76 | 1.15 | 1.73 | 1.44 | 57. |
| BIVALVE LARVAE | .78 | .10 | .00 | .02 | .00 | .00 | .00 | .03 | .00 | .00 | 9. |
| PODON LEUCKARTI | .00 | .00 | .00 | .00 | .03 | .03 | .00 | .00 | .03 | .00 | . |
| ACARTIA LONGIREMIS | .00 | .00 | .09 | .07 | .18 | .03 | .17 | .10 | .09 | .08 | 8. |
| CALANUS FINMARCHICUS-TOTAL | 1.56 | 2.60 | 2.45 | 2.38 | 1.56 | .59 | 2.04 | .69 | .55 | .72 | 151. |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .05 | .07 | .00 | .00 | .00 | .00 | .03 | .00 | 1. |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .03 | .00 | .03 | . |
| CALANUS FINMARCHICUS (S) | .00 | .10 | .05 | .12 | .00 | .00 | .00 | .00 | .00 | .00 | 2. |
| CALANUS FINMARCHICUS VIM | .00 | .10 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| CALANUS FINMARCHICUS VIF | .00 | .10 | .09 | .19 | .00 | .00 | .00 | .03 | .03 | .03 | 4. |
| CALANUS FINMARCHICUS V | .78 | .52 | .79 | 1.90 | .94 | .31 | 1.53 | .15 | .24 | .44 | 76. |
| CALANUS FINMARCHICUS IV | .00 | .83 | .97 | .24 | .50 | .21 | .51 | .44 | .27 | .22 | 41. |
| CALANUS FINMARCHICUS III | .78 | .63 | .51 | .02 | .12 | .07 | .00 | .05 | .00 | .00 | 21. |
| CALANUS FINMARCHICUS II | .00 | .42 | .09 | .00 | .00 | .00 | .00 | .03 | .00 | .03 | 5. |
| CALANUS FINMARCHICUS DAMAGED | .78 | .00 | .28 | .00 | .00 | .00 | .00 | .28 | .09 | .11 | 15. |
| CALANUS GLACIALIS V | .00 | .10 | .00 | .02 | .00 | .00 | .08 | .00 | .00 | .00 | 2. |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .02 | .06 | .07 | .17 | .00 | .00 | .03 | 3. |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | . |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | . |
| CALANUS SP. | .00 | .00 | .00 | 3.98 | .74 | .07 | 1.02 | .00 | .00 | .00 | 58. |
| CALANUS MINOR | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| CANDACIA ARMATA | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | . |
| CENTROPAGES TYPICUS | 20.27 | 4.48 | 1.06 | .21 | 2.38 | .31 | 1.70 | .74 | .03 | .14 | 313. |
| CLAUSOCALANUS FURCATUS | .00 | 2.81 | .88 | .05 | .32 | .10 | .17 | .05 | .00 | .08 | 44. |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . |
| EUCHEATA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | . |
| EURYTEMORA HERDMANI | .78 | .00 | .09 | .22 | .29 | .21 | .34 | .13 | .09 | .06 | 22. |
| METRIDIA LONGA | .00 | .42 | .14 | .16 | .62 | .00 | .76 | .00 | .00 | .03 | 21. |
| METRIDIA LUCENS | .00 | .52 | .42 | .41 | 1.03 | .03 | .59 | .21 | .18 | .47 | 38. |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .03 | .00 | . |
| OITHONA ATLANTICA | .00 | .00 | .28 | .05 | .26 | .14 | 5.51 | 2.18 | 4.15 | 4.17 | 167. |
| OITHONA SIMILIS | .78 | .21 | .00 | .33 | .12 | .14 | 1.19 | .15 | .27 | .17 | 33. |
| PARACALANUS PARVUS | 141.13 | 3.65 | 1.39 | .69 | 1.00 | .90 | 3.22 | 1.03 | .48 | .50 | 1539. |
| PARACALANUS/CLAUSOCALANUS | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | . |
| PSEUDOCALANUS MINUTUS | 3.90 | 2.92 | .60 | .17 | .44 | .34 | 1.19 | .13 | .33 | .11 | 101. |
| TEMORA LONGICORNIS | .00 | .00 | .37 | .26 | .03 | .31 | .51 | .13 | .36 | .08 | 20. |
| UNID/DAM/EXO COPEPOD | 17.93 | 25.63 | 8.89 | 9.53 | 16.65 | 9.79 | 28.16 | 6.05 | 6.03 | 5.44 | 1341. |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | . |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .05 | .00 | .06 | .00 | .08 | .00 | .09 | .00 | 2. |
| PARATHEMISTO SP. | .78 | .00 | 1.39 | .76 | .09 | .07 | .00 | .00 | .36 | .03 | 34. |
| THYSANOESSA INERMIS FURCILIAE | .00 | .10 | .05 | .07 | .06 | .00 | .00 | .00 | .00 | .00 | 2. |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | . |
| EUPHAUSIID EGGS | .00 | .83 | .00 | .00 | .00 | .00 | .08 | .00 | .06 | .00 | 9. |
| EUPHAUSIID NAUPLII | .00 | .31 | .09 | .02 | .00 | .00 | .00 | .00 | .00 | .03 | 4. |
| DAMAGED FURCILIAE | .00 | .73 | .09 | .07 | .03 | .00 | .17 | .00 | .00 | .00 | 10. |
| DECAPOD LARVAE | .00 | .00 | .05 | .02 | .00 | .00 | .00 | .00 | .03 | .00 | . |
| DECAPOD ZOEA-BRACHYURAN | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | . |
| SAGITTA MAXIMA | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | . |

TOW 3 18/09/85 0830H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | | |
| UNIDENTIFIED MEDUSA | .000 | .000 | .000 | .000 | .059 | .000 | .000 | .000 | .000 | .000 | .588 |
| CTENOPHORA | .156 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.559 |
| AMPHIPODA | .000 | .000 | .000 | .017 | .000 | .000 | .000 | .000 | .030 | .000 | .475 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .017 | .000 | .000 | .000 | .000 | .030 | .000 | .475 |
| EUPHAUSIACEA | .019 | .063 | .093 | .448 | .471 | .207 | .382 | .077 | .061 | .056 | 18.751 |
| MEGANYCTIPHANES NORVEGICA | .019 | .021 | .056 | .086 | .147 | .069 | .191 | .051 | .061 | .056 | 7.564 |
| THYSANOESSA INERMIS | .000 | .042 | .037 | .362 | .324 | .138 | .191 | .026 | .000 | .000 | 11.187 |
| CHAETOGNATHA | .019 | .042 | .000 | .103 | .000 | .000 | .229 | .026 | .182 | .000 | 6.011 |
| SAGITTA ELEGANS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .026 | .000 | .000 | .256 |
| UNIDENTIFIED CHAETOGNATH | .019 | .042 | .000 | .103 | .000 | .000 | .229 | .000 | .182 | .000 | 5.754 |

| TOW 4 18/09/85 1030H | 43 58.37 N | 62 57.89 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | |
| DEPTH1 (M) | 100.0 | 115.0 | 130.0 | 140.0 | 150.0 | 170.0 | 190.0 | 200.0 | 210.0 | |
| DEPTH2 (M) | 115.0 | 130.0 | 140.0 | 150.0 | 170.0 | 190.0 | 200.0 | 210.0 | 220.0 | |
| VOLUME OF WATER SAMPLED (M3) | 46. | 45. | 27. | 28. | 61. | 166. | 64. | 54. | 61. | |
| TOTAL BIOMASS (G/M3) | .018 | .016 | .030 | .015 | .017 | .010 | .018 | .050 | 1.972 | 21.892 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .003 | .000 | .000 | .000 | .001 | .015 | .012 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .16 | .00 | .00 | .00 | .12 | .00 | 2.81 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .08 | .07 | .00 | .06 | .00 | 6.01 | 62.79 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .32 | .00 | .00 | .00 | .25 | .00 | 5.62 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .25 | .00 | 2.77 |
| GYMNOSOMATA | 1.09 | .80 | .99 | .63 | .26 | .68 | .72 | .74 | 6.01 | 138.18 |
| ACARTIA LONGIREMIS | .00 | .09 | .00 | .08 | .07 | .00 | .09 | .00 | .00 | 4.39 |
| CALANUS FINMARCHICUS-TOTAL | 7.75 | 7.05 | 11.28 | 5.30 | 7.97 | 4.10 | 8.23 | 15.13 | 1068.92 | 11552.00 |
| CALANUS FINMARCHICUS (D) | .07 | .18 | .25 | .00 | .07 | .40 | .09 | .37 | 12.01 | 140.33 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | 6.01 | 61.37 |
| CALANUS FINMARCHICUS (S) | .14 | .09 | .00 | .00 | .00 | .08 | .13 | .00 | 6.01 | 66.43 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .04 | .03 | .00 | .00 | 1.12 |
| CALANUS FINMARCHICUS VIF | .22 | .27 | .25 | .00 | .13 | .48 | .22 | .37 | 24.02 | 268.13 |
| CALANUS FINMARCHICUS V | 7.03 | 6.43 | 10.41 | 4.98 | 7.18 | 1.97 | 7.25 | 13.90 | 990.85 | 10658.82 |
| CALANUS FINMARCHICUS IV | .51 | .36 | .62 | .32 | .66 | 1.61 | .69 | .86 | 54.05 | 623.61 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .31 |
| CALANUS GLACIALIS (D) | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .31 |
| CALANUS GLACIALIS (G) | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .31 |
| CALANUS GLACIALIS VIF | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .63 |
| CALANUS GLACIALIS V | 1.09 | 1.16 | 1.61 | .55 | .92 | .48 | .78 | 1.48 | 84.07 | 946.78 |
| CALANUS GLACIALIS IV | 1.09 | .71 | 1.12 | .47 | .59 | .16 | .57 | 2.46 | 102.09 | 1109.12 |
| CALANUS HYPERBOREUS-TOTAL | 1.23 | .80 | 2.23 | .71 | 1.52 | .40 | 1.19 | 2.46 | 96.08 | 1095.66 |
| CALANUS HYPERBOREUS (D) | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | 1.32 |
| CALANUS HYPERBOREUS VIF | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | 1.32 |
| CALANUS HYPERBOREUS V | .36 | .27 | .99 | .24 | .59 | .12 | .25 | .25 | 36.03 | 401.29 |
| CALANUS HYPERBOREUS IV | .87 | .54 | 1.24 | .47 | .86 | .28 | .91 | 2.21 | 60.05 | 692.73 |
| CALANUS SP. | 1.59 | 2.95 | 2.35 | 3.08 | 1.91 | .64 | 2.10 | 1.11 | 12.01 | 325.78 |
| CENTROPAGES TYPICUS | .00 | .18 | .12 | .08 | .26 | .00 | .22 | .00 | .00 | 12.18 |
| CLAUSOCALANUS FURCATUS | .00 | .09 | .12 | 1.03 | .53 | 1.45 | .66 | .25 | .00 | 61.37 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .37 | .00 | 3.69 |
| EUCHEATA SP. | .00 | .09 | .12 | .16 | .07 | .08 | .00 | .12 | .00 | 8.31 |
| EURYTEMORA HERDMANI | .00 | .09 | .00 | .00 | .00 | .04 | .35 | .12 | .00 | 6.83 |
| METRIDIA LONGA | .07 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.09 |
| METRIDIA LUCENS | .94 | 2.50 | 2.73 | 1.42 | .86 | .60 | .25 | .00 | .00 | 124.82 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .08 | .00 | .00 | .06 | .00 | .00 | 1.42 |
| OITHONA ATLANTICA | 5.94 | 5.00 | 3.35 | 2.85 | .72 | .12 | .35 | .00 | .00 | 246.42 |
| OITHONA SIMILIS | .07 | .00 | .00 | .00 | .07 | .00 | .31 | .00 | .00 | 5.54 |
| PARACALANUS PARVUS | .51 | 1.16 | 1.86 | 1.98 | .66 | .16 | .57 | .86 | .00 | 94.03 |
| PSEUDOCALANUS MINUTUS | .07 | .18 | .00 | .24 | .33 | .20 | .13 | .49 | 6.01 | 82.97 |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .00 | .12 | .00 | .00 | .00 | 2.41 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .40 | .20 | .04 | .09 | .00 | .00 | 9.65 |
| UNID/DAM/EXO COPEPOD | 2.17 | 2.95 | 1.61 | 4.35 | 2.57 | .40 | 4.96 | 3.57 | 6.01 | 341.17 |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .00 | .07 | .04 | .00 | .12 | .00 | 3.35 |
| PARATHEMISTO ABYSSORUM | .07 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.09 |
| PARATHEMISTO SP. | .00 | .18 | .12 | .08 | .26 | .00 | .03 | .00 | .00 | 10.29 |
| M. NORVEGICA FURCILIA | .07 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.09 |
| EUPHAUSIID EGGS | .00 | .00 | .12 | .40 | .07 | .00 | .03 | .00 | .00 | 6.83 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .80 |
| DAMAGED EUPHAUSID | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .80 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .12 | .00 | 1.23 |

## LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIPHIDAE | .000 | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .120 |
| EUPHAUSIACEA | .043 | .000 | .112 | .000 | .016 | .006 | .047 | .148 | .361 | 7.777 |
| MEGANYCTIPHANES NORVEGICA | .022 | .000 | .037 | .000 | .000 | .006 | .016 | .111 | .345 | 5.531 |
| THYSANOESSA INERMIS | .022 | .000 | .074 | .000 | .016 | .000 | .016 | .037 | .016 | 2.089 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .000 | .000 | .000 | .016 | .000 | .000 | .157 |
| DECAPODA | .000 | .000 | .000 | .036 | .000 | .000 | .000 | .000 | .000 | .356 |
| UNIDENTIFIED DECAPOD | .000 | .000 | .000 | .036 | .000 | .000 | .000 | .000 | .000 | .356 |

| TOW 10 20/09/85 1730H | 44 04.05 N | 62 46.86 | | | | | |
|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | |
| DEPTH1 (M) | 190.0 | 202.0 | 212.0 | 221.0 | 227.0 | 226.0 | |
| DEPTH2 (M) | 202.0 | 212.0 | 221.0 | 227.0 | 226.0 | 230.0 | |
| VOLUME OF WATER SAMPLED (M3) | 155. | 100. | 119. | 221. | 94. | 87. | |
| TOTAL BIOMASS (G/M3) | .012 | .040 | .108 | .511 | .641 | .961 | 9.056 |
| EUPHAUSIACEA BIOMASS (G/M3) | .003 | .002 | .005 | .006 | .002 | .002 | |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | 2.72 | .00 | 2.72 |
| LIMACINA INFLATA | .00 | .08 | .27 | .00 | .00 | .00 | 3.22 |
| LIMACINA LESUEURII | .10 | .16 | .81 | .00 | 2.72 | .00 | 12.82 |
| LIMACINA TROCHIFORMIS | .03 | .00 | .81 | .00 | .00 | .00 | 7.58 |
| LIMACINA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .15 |
| GYMNOSOMATA | .14 | .44 | 1.61 | 9.25 | 5.44 | 35.47 | 223.47 |
| CONCHOECIA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .15 |
| CALANUS FINMARCHICUS-TOTAL | 6.55 | 24.16 | 168.21 | 1343.60 | 1511.00 | 2642.77 | 21977.79 |
| CALANUS FINMARCHICUS (D) | .00 | .68 | 2.42 | 6.94 | 5.44 | .00 | 75.66 |
| CALANUS FINMARCHICUS (G) | .00 | 1.04 | 2.96 | 11.56 | .00 | 11.82 | 153.72 |
| CALANUS FINMARCHICUS (S) | .00 | .20 | 4.58 | 4.63 | .00 | .00 | 70.93 |
| CALANUS FINMARCHICUS VIM | .01 | .36 | 1.35 | 9.25 | 5.44 | 23.65 | 171.40 |
| CALANUS FINMARCHICUS VIF | .80 | 2.76 | 10.23 | 23.13 | 5.44 | 11.82 | 320.73 |
| CALANUS FINMARCHICUS V | 4.61 | 17.88 | 123.53 | 1105.40 | 1312.61 | 2347.16 | 18679.53 |
| CALANUS FINMARCHICUS IV | .30 | .72 | 8.88 | 53.19 | 54.35 | .00 | 464.18 |
| CALANUS FINMARCHICUS III | .04 | .04 | .00 | .00 | .00 | .00 | .86 |
| CALANUS FINMARCHICUS II | .00 | .12 | .27 | .00 | .00 | .00 | 3.62 |
| CALANUS FINMARCHICUS DAMAGED | .79 | 2.28 | 23.95 | 152.63 | 133.16 | 260.14 | 2337.31 |
| CALANUS GLACIALIS (D) | .00 | .00 | .00 | .00 | 2.72 | .00 | 2.72 |
| CALANUS GLACIALIS (S) | .00 | .04 | .27 | .00 | 5.44 | .00 | 8.26 |
| CALANUS GLACIALIS VIF | .01 | .04 | .00 | .00 | 8.15 | .00 | 8.71 |
| CALANUS GLACIALIS V | .15 | 1.04 | 9.15 | 87.88 | 119.58 | 183.28 | 1474.57 |
| CALANUS GLACIALIS IV | .09 | .76 | 8.07 | 62.44 | 89.68 | 153.72 | 1160.54 |
| CALANUS GLACIALIS III | .01 | .00 | .00 | .00 | .00 | .00 | .15 |
| CALANUS GLACIALIS DAMAGED | .00 | .12 | 2.42 | 9.25 | 21.74 | 53.21 | 313.08 |
| CALANUS HYPERBOREUS-TOTAL | .04 | .12 | 1.61 | 4.63 | 2.72 | 41.39 | 212.21 |
| CALANUS HYPERBOREUS V | .01 | .08 | .27 | .00 | .00 | 5.91 | 27.03 |
| CALANUS HYPERBOREUS IV | .01 | .04 | 1.08 | 2.31 | 2.72 | 29.56 | 145.08 |
| CALANUS HYPERBOREUS DAMAGED | .01 | .00 | .27 | 2.31 | .00 | 5.91 | 40.10 |
| CALANUS SP. | .80 | 2.40 | 26.64 | 164.19 | 154.90 | 319.26 | 2690.50 |
| CENTROPAGES BRADYI | .01 | .04 | .00 | .00 | .00 | .00 | .55 |
| CENTROPAGES TYPICUS | .74 | 1.24 | 7.00 | 2.31 | 16.31 | 17.74 | 185.33 |
| CLAUSOCALANUS FURCATUS | 1.65 | 1.12 | 5.11 | 20.81 | 16.31 | 53.21 | 431.07 |
| EUCHEATA NORVEGICA | .00 | .04 | .00 | .00 | .00 | .00 | .40 |
| EUCHEATA SP. | .01 | .04 | .27 | .00 | .00 | .00 | 2.98 |
| EURYTEMORA HERDMANI | .00 | .00 | .00 | .00 | .00 | 5.91 | 23.65 |
| MACROSTELLA GRACILIS | .03 | .00 | .00 | .00 | .00 | .00 | .31 |
| MECYNOCERA CLAUSI | .03 | .00 | .00 | .00 | .00 | .00 | .31 |
| METRIDIA LONGA | .00 | .08 | 4.58 | 9.25 | 24.46 | 47.30 | 311.13 |
| METRIDIA LUCENS | .15 | 2.08 | 10.77 | 27.75 | 32.61 | 23.65 | 413.26 |
| MICROCALANUS PYGMAEUS | .00 | .04 | .27 | .00 | .00 | .00 | 2.82 |
| OITHONA ATLANTICA | .01 | .08 | 1.61 | .00 | .00 | .00 | 15.49 |
| OITHONA SIMILIS | .04 | .12 | 2.96 | .00 | 2.72 | .00 | 31.03 |
| ONCAEA SP. | .03 | .00 | .00 | .00 | .00 | .00 | .31 |
| PARACALANUS PARVUS | .31 | .88 | 3.77 | 18.50 | 13.59 | 17.74 | 241.96 |
| PARACALANUS/CLAUSOCALANUS | .03 | .52 | 5.11 | 4.63 | 16.31 | 5.91 | 119.24 |
| PLEUROMAMMA BOREALIS | .00 | .00 | .27 | .00 | .00 | .00 | 2.42 |
| PSEUDOCALANUS MINUTUS | .22 | .28 | 2.69 | 2.31 | 16.31 | 5.91 | 83.48 |
| SAPPHIRINA OPALINA | .01 | .04 | .00 | .00 | .00 | .00 | .55 |
| SAPPHIRINA SALI | .00 | .00 | .00 | .00 | 16.31 | .00 | 16.31 |
| SAPPHIRINA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .15 |
| SCOLECITHRICELLA MINOR | .03 | .04 | .00 | 2.31 | .00 | .00 | 14.59 |
| TEMORA LONGICORNIS | .04 | .04 | .00 | .00 | .00 | .00 | .86 |
| UNID/DAM/EXO COPEPOD | .89 | 1.84 | 10.77 | 16.19 | 29.89 | 65.03 | 513.13 |
| UNIDENTIFIED HARPACTICOID | .03 | .04 | .27 | .00 | .00 | .00 | 3.13 |
| M. NORVEGICA ADULT | .03 | .04 | .27 | .00 | .00 | .00 | 3.13 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .04 | .00 | .00 | .00 | .00 | .40 |
| EUPHAUSIID EGGS | .00 | .08 | .00 | .00 | .00 | .00 | .80 |
| DAMAGED EUPHAUSID | .00 | .00 | .27 | .00 | .00 | .00 | 2.42 |
| SAGITTA MAXIMA | .00 | .04 | .00 | .00 | .00 | .00 | .40 |

TOW 10 20/09/85 1730H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | |
|---|---|---|---|---|---|---|---|
| L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N | | | | | | | |
| CTENOPHORA | .000 | .000 | .000 | .000 | .011 | .000 | .011 |
| EUPHAUSIACEA | .026 | .040 | .177 | .384 | .170 | .185 | 5.512 |
| MEGANYCTIPHANES NORVEGICA | .026 | .040 | .143 | .384 | .170 | .185 | 5.209 |
| THYSANOESSA INERMIS | .000 | .000 | .008 | .000 | .000 | .000 | .076 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .017 | .000 | .000 | .000 | .151 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .008 | .000 | .000 | .000 | .076 |
| CHAETOGNATHA | .000 | .010 | .000 | .018 | .011 | .058 | .450 |
| EUKHRONIA HAMATA | .000 | .000 | .000 | .005 | .000 | .023 | .119 |
| SAGITTA ELEGANS | .000 | .000 | .000 | .014 | .000 | .035 | .220 |
| SAGITTA HEXAPTERA | .000 | .000 | .000 | .000 | .011 | .000 | .011 |
| UNIDENTIFIED CHAETOGNATH | .000 | .010 | .000 | .000 | .000 | .000 | .100 |

| TOW 11 20/09/85 2000H | 43 49.61 N | 62 58.96 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | |
| DEPTH1 (M) | 257.0 | 240.0 | 230.0 | 220.0 | 100.0 | 63.0 | 48.6 | 15.8 | |
| DEPTH2 (M) | 240.0 | 230.0 | 220.0 | 100.0 | 63.0 | 48.6 | 29.5 | 1.0 | |
| VOLUME OF WATER SAMPLED (M3) | 87. | 74. | 100. | 423. | 112. | 40. | 52. | 49. | |
| TOTAL BIOMASS (G/M3) | 5.493 | .819 | .136 | .057 | .163 | .171 | .170 | .255 | 125.309 |
| EUPHAUSIACEA BIOMASS (G/M3) | .064 | .034 | .042 | .021 | .032 | .017 | .024 | .092 | |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .40 | .00 | .00 | 5.70 |
| LIMACINA-DAMAGED | .00 | .00 | .00 | .00 | .00 | .40 | .00 | .00 | 5.70 |
| GYMNOSOMATA | 47.08 | 13.88 | .96 | 1.66 | 4.02 | .79 | .62 | .65 | 1329.91 |
| CALANUS FINMARCHICUS-TOTAL | ******* | 2327.59 | 141.44 | 45.09 | 184.83 | 183.37 | 208.19 | 192.78 | 381763.36 |
| CALANUS FINMARCHICUS (D) | 141.24 | 10.41 | .96 | 2.72 | 18.37 | 19.01 | 17.30 | 1.95 | 4154.12 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .32 | .30 | 5.74 | 10.30 | 11.74 | 1.30 | 643.56 |
| CALANUS FINMARCHICUS (S) | .00 | 13.88 | 2.24 | 1.51 | 2.30 | 5.94 | 2.47 | 1.95 | 589.23 |
| CALANUS FINMARCHICUS VIM | .00 | 6.94 | 1.28 | 1.66 | .57 | .00 | 1.24 | .65 | 336.34 |
| CALANUS FINMARCHICUS VIF | 141.24 | 24.28 | 3.52 | 4.54 | 26.40 | 34.85 | 28.42 | 5.19 | 5322.21 |
| CALANUS FINMARCHICUS V | ******* | 2001.52 | 91.84 | 25.57 | 103.32 | 92.28 | 148.26 | 104.50 | 334470.28 |
| CALANUS FINMARCHICUS IV | 470.80 | 107.53 | 5.12 | 4.09 | 5.17 | 8.71 | 16.06 | 7.79 | 10359.09 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | .00 | .57 | .00 | .00 | 1.30 | 40.45 |
| CALANUS FINMARCHICUS DAMAGED | 1412.41 | 187.32 | 39.68 | 9.23 | 48.79 | 47.52 | 43.86 | 73.35 | 31801.36 |
| CALANUS GLACIALIS (D) | .00 | .00 | .00 | .00 | .57 | .00 | .62 | .00 | 33.04 |
| CALANUS GLACIALIS (S) | .00 | 3.47 | .32 | .00 | .57 | .00 | .00 | .65 | 68.73 |
| CALANUS GLACIALIS VIF | .00 | 3.47 | .32 | .00 | 1.15 | .00 | .62 | .65 | 101.77 |
| CALANUS GLACIALIS V | 1459.49 | 208.13 | 7.36 | 2.12 | 5.74 | 5.15 | 5.56 | 9.09 | 27747.69 |
| CALANUS GLACIALIS IV | 1129.93 | 128.35 | 6.72 | 1.06 | 5.74 | .40 | 2.47 | 9.09 | 21086.36 |
| CALANUS GLACIALIS DAMAGED | 564.97 | 45.09 | 7.04 | 2.57 | 4.02 | 9.50 | 6.80 | 11.03 | 11013.05 |
| CALANUS HYPERBOREUS-TOTAL | 988.69 | 76.31 | 4.48 | .91 | 4.02 | 8.32 | 6.18 | 9.09 | 18245.51 |
| CALANUS HYPERBOREUS V | 282.48 | 31.22 | .64 | .00 | 1.15 | .79 | 1.24 | 1.95 | 5227.10 |
| CALANUS HYPERBOREUS IV | 517.89 | 41.63 | 3.52 | .61 | 2.30 | 2.38 | 3.71 | 4.54 | 9585.34 |
| CALANUS HYPERBOREUS DAMAGED | 141.24 | 3.47 | .32 | .30 | .00 | 5.15 | 1.24 | 2.60 | 2611.47 |
| CALANUS SP. | 2118.62 | 235.88 | 47.04 | 12.10 | 52.81 | 62.18 | 51.89 | 86.98 | 45425.88 |
| CENTROPAGES TYPICUS | .00 | 10.41 | .64 | .76 | 2.87 | 3.96 | 2.47 | 53.87 | 1209.00 |
| CLAUSOCALANUS FURCATUS | .00 | .00 | .96 | 2.72 | 6.31 | 11.88 | 15.44 | 14.93 | 1257.04 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .15 | .57 | .00 | .00 | .00 | 39.39 |
| EUCHEATA SP. | .00 | .00 | .00 | .30 | .57 | .00 | .00 | .00 | 57.55 |
| MECYNOCERA CLAUSI | .00 | .00 | .32 | .00 | .00 | .00 | .00 | .00 | 3.20 |
| METRIDIA LONGA | 94.16 | 45.09 | 14.72 | 8.78 | .57 | 1.58 | .62 | 1.30 | 3327.00 |
| METRIDIA LUCENS | .00 | 34.69 | 14.72 | 24.36 | 88.97 | 72.87 | 71.04 | 5.84 | 9201.76 |
| METRIDIA SP. | .00 | .00 | .00 | .76 | 3.44 | 5.94 | .62 | .00 | 315.55 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .00 | .40 | .00 | .00 | 5.70 |
| OITHONA ATLANTICA | .00 | .00 | .32 | 6.35 | 1.72 | .00 | .00 | .65 | 839.07 |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .00 | .79 | .00 | .00 | 11.41 |
| ONCAEA SP. | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 18.16 |
| PARACALANUS PARVUS | .00 | 3.47 | 1.92 | .45 | 1.15 | 7.52 | 3.71 | 141.50 | 2424.20 |
| PARACALANUS/CLAUSOCALANUS | .00 | .00 | .32 | .15 | 1.15 | 2.38 | 2.47 | 45.44 | 817.70 |
| PSEUDOCALANUS MINUTUS | .00 | 3.47 | .64 | .00 | 1.15 | .00 | 2.47 | 1.30 | 149.97 |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .30 | .00 | .00 | .00 | .00 | 36.31 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 18.16 |
| UNID/DAM/EXO COPEPOD | 329.56 | 45.09 | 19.84 | 4.54 | 6.89 | 16.63 | 8.65 | 29.86 | 7898.07 |
| AMPHIPOD-DAMAGED | .00 | .00 | .00 | .15 | .57 | .40 | .00 | 3.89 | 102.74 |
| PARATHEMISTO GAUDICHAUDI | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 9.61 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.30 | 19.21 |
| PARATHEMISTO-IMMATURE | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 18.16 |
| M. NORVEGICA ADULT | .00 | .00 | .32 | .00 | .57 | .00 | .00 | .65 | 34.04 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .62 | 8.44 | 136.68 |
| THYSANOESSA INERMIS FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .62 | .00 | 11.80 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 18.16 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 18.16 |
| DAMAGED EUPHAUSID | .00 | .00 | .32 | .00 | .00 | .00 | .00 | 1.95 | 32.02 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 9.61 |
| SAGITTA ELEGANS | .00 | .00 | .00 | .00 | .00 | .40 | .00 | .00 | 5.70 |

TOW 11 20/09/85 2000H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | |
|---|---|---|---|---|---|---|---|---|---|
| L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N | | | | | | | | | |
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .332 |
| CTENOPHORA | .000 | .000 | .010 | .000 | .000 | .000 | .000 | .000 | .100 |
| TOMOPTERIS SP. | .011 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .527 |
| AMPHIPODA | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .000 | 1.135 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .000 | 1.135 |
| EUPHAUSIACEA | .299 | .203 | .230 | .118 | .215 | .248 | .502 | 5.152 | 120.964 |
| MEGANYCTIPHANES NORVEGICA | .299 | .190 | .230 | .109 | .188 | .173 | .270 | 5.112 | 112.604 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .000 | .000 | .074 | .232 | .041 | 6.094 |
| THYSANOESSA LONGICAUDATA | .000 | .014 | .000 | .009 | .009 | .000 | .000 | .000 | 1.602 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .000 | .018 | .000 | .000 | .000 | .664 |
| CHAETOGNATHA | .172 | .068 | .070 | .014 | .027 | .173 | .116 | .203 | 14.716 |
| EUKHRONIA HAMATA | .000 | .014 | .020 | .002 | .000 | .025 | .000 | .000 | .976 |
| SAGITTA ELEGANS | .172 | .054 | .050 | .012 | .027 | .149 | .116 | .203 | 13.740 |

| TOW 5 18/09/85 1330H | 43 47.13 N 62 48.80 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 210.0 | 200.0 | 190.0 | 170.0 | 150.0 | 100.0 | 75.0 | 50.0 | 25.0 | |
| DEPTH2 (M) | 200.0 | 190.0 | 170.0 | 150.0 | 100.0 | 75.0 | 50.0 | 25.0 | 2.0 | |
| VOLUME OF WATER SAMPLED (M3) | 60. | 33. | 73. | 76. | 196. | 86. | 80. | 76. | 80. | |
| TOTAL BIOMASS (G/M3) | 1.325 | .013 | .005 | .005 | .006 | .004 | .008 | .022 | .049 | 15.866 |
| EUPHAUSIACEA BIOMASS (G/M3) | .012 | .000 | .000 | .001 | .000 | .000 | .002 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMACINA BULIMOIDES | .00 | .08 | .05 | .03 | .00 | .00 | .00 | .00 | .00 | 2.33 |
| LIMACINA HELICOIDES | .00 | .08 | .05 | .00 | .00 | .00 | .42 | .00 | .25 | 17.80 |
| LIMACINA LESUEURII | .00 | .00 | .05 | .00 | .00 | .00 | .08 | .00 | .00 | 2.99 |
| LIMACINA TROCHIFORMIS | .00 | .15 | .09 | .07 | .00 | .00 | .00 | .00 | .00 | 4.65 |
| GYMNOSOMATA | .00 | .68 | .32 | .52 | .82 | 1.96 | 1.66 | .75 | 1.75 | 214.04 |
| BIVALVE LARVAE | .00 | .08 | .00 | .00 | .00 | .10 | .08 | .01 | .00 | 5.65 |
| CALANUS FINMARCHICUS-TOTAL | 1336.89 | 10.00 | 3.93 | 2.00 | 3.72 | 1.96 | 3.99 | 1.87 | 4.75 | 14078.27 |
| CALANUS FINMARCHICUS (D) | 49.78 | .15 | .09 | .00 | .05 | .00 | .00 | .04 | .00 | 504.66 |
| CALANUS FINMARCHICUS (G) | 49.78 | .08 | .09 | .00 | .00 | .00 | .04 | .00 | .00 | 501.40 |
| CALANUS FINMARCHICUS (S) | 14.22 | .00 | .05 | .00 | .00 | .03 | .08 | .00 | .25 | 151.79 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | 1.04 |
| CALANUS FINMARCHICUS VIF | 113.78 | .23 | .23 | .00 | .05 | .03 | .12 | .04 | .25 | 1157.85 |
| CALANUS FINMARCHICUS V | 1315.56 | 8.41 | 3.11 | 1.48 | 2.76 | .76 | 2.70 | 1.58 | 3.25 | 13669.81 |
| CALANUS FINMARCHICUS IV | 21.33 | 1.36 | .59 | .52 | .92 | .96 | .95 | .22 | .75 | 366.06 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | .00 | .00 | .20 | .12 | .01 | .25 | 14.18 |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .01 | .25 | 7.12 |
| CALANUS FINMARCHICUS DAMAGED | 7.11 | .00 | .00 | .00 | .15 | .07 | .33 | .41 | .50 | 110.42 |
| CALANUS GLACIALIS (D) | 14.22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 142.22 |
| CALANUS GLACIALIS VIF | 14.22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 142.22 |
| CALANUS GLACIALIS V | 92.44 | .23 | .18 | .16 | .05 | .03 | .17 | .16 | .00 | 945.13 |
| CALANUS GLACIALIS IV | 7.11 | 1.21 | .27 | .10 | .05 | .00 | .21 | .03 | .50 | 110.58 |
| CALANUS HYPERBOREUS-TOTAL | 49.78 | .38 | .05 | .07 | .31 | .00 | .17 | .08 | .50 | 536.72 |
| CALANUS HYPERBOREUS V | 14.22 | .08 | .05 | .03 | .05 | .00 | .00 | .00 | .25 | 152.85 |
| CALANUS HYPERBOREUS IV | 35.56 | .30 | .00 | .03 | .26 | .00 | .17 | .08 | .25 | 383.87 |
| CALANUS SP. | 7.11 | 1.21 | .46 | .36 | .15 | .07 | .00 | .41 | .00 | 119.09 |
| CENTROPAGES BRADYI | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .33 |
| CENTROPAGES TYPICUS | .00 | .30 | .23 | .16 | .15 | .10 | .08 | .16 | 17.25 | 423.80 |
| CLAUSOCALANUS FURCATUS | 28.44 | 2.20 | 3.88 | 2.92 | .97 | .23 | .12 | .07 | 3.50 | 581.98 |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .33 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 2.55 |
| EUCHEATA SP. | .00 | .08 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 3.31 |
| EURYTEMORA HERDMANI | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .83 |
| MECYNOCERA CLAUSI | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .33 |
| METRIDIA LUCENS | .00 | .45 | .50 | 1.28 | 2.81 | .07 | .00 | .07 | .50 | 195.29 |
| MICROCALANUS PYGMAEUS | .00 | .15 | .59 | .07 | .10 | .00 | .00 | .00 | .00 | 19.80 |
| OITHONA ATLANTICA | .00 | .15 | .37 | .85 | 5.20 | 1.63 | .58 | .07 | .00 | 342.96 |
| OITHONA SIMILIS | .00 | .00 | .37 | .16 | .20 | .33 | .25 | 1.58 | 1.00 | 97.80 |
| PARACALANUS PARVUS | 21.33 | .68 | .18 | .26 | .20 | .23 | .29 | .30 | 45.25 | 1300.65 |
| PARACALANUS/CLAUSOCALANUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.25 | 28.75 |
| PSEUDOCALANUS MINUTUS | .00 | .30 | .05 | .07 | .31 | .10 | .17 | .12 | 9.25 | 242.92 |
| TEMORA LONGICORNIS | .00 | .08 | .18 | .00 | .20 | .07 | .00 | .04 | .00 | 17.26 |
| UNID/DAM/EXO COPEPOD | 56.89 | 3.79 | 5.53 | 2.20 | 2.50 | 1.13 | .71 | .96 | 7.25 | 1122.88 |
| UNIDENTIFIED HARPACTICOID | .00 | .08 | .14 | .00 | .00 | .03 | .00 | .01 | .00 | 4.66 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .01 | .00 | 2.88 |
| PARATHEMISTO SP. | .00 | .08 | .00 | .00 | .41 | .00 | .04 | .09 | .25 | 30.26 |
| THYSANOESSA INERMIS FURCILIAE | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 2.55 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .03 | .04 | .03 | .00 | 2.53 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .33 |
| EUPHAUSIID NAUPLII | .00 | .08 | .00 | .00 | .10 | .20 | .08 | .01 | .25 | 19.00 |
| DAMAGED EUPHAUSID | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .66 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED MEDUSA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .188 | 4.313 |
| CTENOPHORA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .118 | .000 | 2.961 |
| TOMOPTERIS SP. | .000 | .000 | .014 | .000 | .000 | .000 | .000 | .000 | .000 | .274 |
| AMPHIPODA | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .013 | .000 | .584 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .013 | .000 | .584 |

TOW 5 18/09/85 1330H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| EUPHAUSIACEA | .133 | .000 | .000 | .052 | .005 | .000 | .262 | .026 | .000 | 9.834 |
| MEGANYCTIPHANES NORVEGICA | .117 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.167 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .052 | .005 | .000 | .112 | .026 | .000 | 4.765 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .000 | .000 | .000 | .149 | .000 | .000 | 3.736 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .017 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .167 |
| CHAETOGNATHA | .033 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .013 | .621 |
| SAGITTA ELEGANS | .033 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .013 | .621 |
| PICES | .000 | .000 | .000 | .000 | .010 | .000 | .000 | .039 | .000 | 1.497 |
| MERLUCCIUS BILINEARIS | .000 | .000 | .000 | .000 | .010 | .000 | .000 | .039 | .000 | 1.497 |

| TOW 6 18/09/85 1530H | 43 33.95 N | 62 38.08 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 7.0 | 14.0 | 21.0 | 28.0 | 35.0 | 40.0 | 45.0 | 50.0 | 60.0 | |
| DEPTH2 (M) | 7.0 | 14.0 | 21.0 | 28.0 | 35.0 | 40.0 | 45.0 | 50.0 | 60.0 | 75.0 | |
| VOLUME OF WATER SAMPLED (M3) | 63. | 28. | 30. | 32. | 28. | 23. | 29. | 32. | 41. | 78. | |
| TOTAL BIOMASS (G/M3) | .037 | .121 | .050 | .009 | .015 | .011 | .009 | .036 | .026 | .169 | 4.693 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MEDUSA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .69 | 10.3 |
| GYMNOSOMATA | .00 | 1.93 | .67 | .25 | .71 | .13 | .45 | .38 | .67 | 3.43 | 87.96 |
| ACARTIA LONGIREMIS | .00 | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .8 |
| CALANUS FINMARCHICUS-TOTAL | 3.41 | 28.99 | 25.33 | 3.94 | 10.57 | 4.96 | 3.24 | 9.25 | 7.14 | 142.77 | 2805.8 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .22 | .00 | .71 | .22 | .10 | 1.25 | .36 | 5.49 | 100.4 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .22 | .51 | .57 | .91 | .10 | 1.50 | .73 | 17.85 | 296.66 |
| CALANUS FINMARCHICUS (S) | .00 | .00 | .00 | .25 | 1.14 | .26 | .14 | .00 | .30 | 1.37 | 35.4 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .22 | .03 | .00 | .06 | 7.55 | 115.1 |
| CALANUS FINMARCHICUS VIF | .00 | .00 | .44 | .00 | 2.43 | 1.39 | .35 | 2.75 | 1.39 | 24.71 | 427.1 |
| CALANUS FINMARCHICUS V | 1.70 | 9.66 | 1.33 | 1.90 | 6.29 | 3.13 | 2.20 | 5.88 | 5.27 | 108.45 | 1881.66 |
| CALANUS FINMARCHICUS IV | .00 | .00 | 2.44 | .63 | .57 | .04 | .24 | .00 | .36 | 2.06 | 61.51 |
| CALANUS FINMARCHICUS III | .00 | 11.59 | 12.00 | 1.14 | 1.29 | .13 | .28 | .38 | .00 | .00 | 186.0 |
| CALANUS FINMARCHICUS II | .00 | 7.73 | 9.11 | .25 | .00 | .04 | .14 | .00 | .00 | .00 | 120.5 |
| CALANUS FINMARCHICUS I | 1.70 | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .06 | .00 | 13.7 |
| CALANUS FINMARCHICUS DAMAGED | .00 | 5.80 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 40.58 |
| CALANUS GLACIALIS V | .00 | .00 | .00 | .13 | .14 | .09 | .07 | .25 | .30 | 2.06 | 37.84 |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .14 | .04 | .07 | .00 | .12 | 1.37 | 23.3 |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .13 | .06 | .00 | 1.4 |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .13 | .06 | .00 | 1.45 |
| CALANUS SP. | .00 | 5.80 | 3.78 | .51 | .57 | 1.00 | .70 | .38 | .67 | 2.75 | 132.78 |
| CALOCALANUS PAVO | .00 | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .8 |
| CANDACIA ARMATA | .00 | .00 | .00 | .00 | .14 | .04 | .00 | .00 | .00 | .00 | 1.2 |
| CENTROPAGES TYPICUS | 35.78 | 199.03 | 12.22 | 1.02 | 3.43 | 1.35 | .98 | .75 | .12 | .69 | 1787.2 |
| CLAUSOCALANUS FURCATUS | .00 | 5.80 | .44 | .51 | .57 | .04 | .31 | .13 | .18 | .00 | 55.47 |
| EUCHEATA SP. | .00 | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .89 |
| METRIDIA LONGA | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .69 | 11.3 |
| METRIDIA LUCENS | .00 | .00 | .00 | .76 | .29 | .43 | .00 | .00 | .00 | .00 | 9.51 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .17 |
| OITHONA ATLANTICA | .00 | .00 | .00 | .00 | .29 | .43 | .56 | .25 | 1.88 | 14.41 | 243.19 |
| OITHONA SIMILIS | .00 | 1.93 | .22 | .63 | .14 | .26 | .24 | .25 | .18 | .00 | 26.1 |
| PARACALANUS PARVUS | 345.90 | 212.56 | 8.22 | 7.37 | 7.86 | 4.43 | 3.14 | 4.88 | .73 | 1.37 | 4163.4 |
| PARACALANUS/CLAUSOCALANUS | 6.82 | 17.39 | .67 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | 175.1 |
| PSEUDOCALANUS MINUTUS | 5.11 | 11.59 | .89 | 1.02 | .43 | .09 | .14 | .13 | .00 | .00 | 135.03 |
| TEMORA LONGICORNIS | .00 | 1.93 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 13.53 |
| UNID/DAM/EXO COPEPOD | 44.30 | 65.70 | 9.56 | 10.41 | 4.57 | 6.39 | 3.94 | 3.00 | 2.42 | 3.43 | 1084.1 |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .13 | .00 | .00 | .10 | .00 | .00 | .00 | 1.4 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .22 | .00 | .00 | .09 | .14 | 1.50 | .91 | .00 | 19.27 |
| PARATHEMISTO GAUDICHAUDI | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .17 |
| PARATHEMISTO LIBELLULA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .12 | .00 | 1.21 |
| PARATHEMISTO SP. | .00 | .00 | 1.11 | .38 | .00 | .74 | .42 | 8.25 | 1.69 | 1.37 | 95.02 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .89 |
| UNIDENTIFIED CALYPTOSIS | .00 | 1.93 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 13.53 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | .61 |
| EUPHAUSIID EGGS | 3.41 | .00 | 2.00 | 13.33 | 7.71 | .52 | 3.10 | 1.00 | .12 | .69 | 219.81 |
| EUPHAUSIID NAUPLII | 1.70 | 32.85 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | 242.05 |
| SAGITTA SETOSA | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .17 |
| FRITILLARIA BOREALIS | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .2 |
| FISH EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | .61 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED MEDUSA | .000 | .072 | .033 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .741 |
| TOMOPTERIS SP. | .000 | .000 | .000 | .032 | .000 | .000 | .000 | .000 | .000 | .013 | .415 |
| AMPHIPODA | .016 | .000 | .000 | .000 | .000 | .000 | .035 | .281 | .169 | .026 | 3.773 |
| PARATHEMISTO GAUDICHAUDII | .016 | .000 | .000 | .000 | .000 | .000 | .035 | .281 | .169 | .026 | 3.773 |
| EUPHAUSIACEA | .016 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .048 | .013 | .789 |
| THYSANOESSA INERMIS | .016 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .024 | .013 | .547 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .024 | .000 | .242 |
| DECAPODA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .031 | .000 | .039 | .735 |
| IMMATURE DECAPOD | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .039 | .579 |
| UNIDENTIFIED DECAPOD | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .031 | .000 | .000 | .156 |
| CHAETOGNATHA | .000 | .000 | .033 | .000 | .000 | .000 | .000 | .000 | .024 | .026 | .862 |
| SAGITTA ELEGANS | .000 | .000 | .033 | .000 | .000 | .000 | .000 | .000 | .024 | .026 | .862 |

| TOW 7 18/09/85 2015H | 43 09.43 N 62 17.98 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 7.0 | 14.0 | 22.0 | 29.0 | 36.0 | 41.0 | 49.0 | 54.0 | 63.0 | |
| DEPTH2 (M) | 7.0 | 14.0 | 22.0 | 29.0 | 36.0 | 41.0 | 49.0 | 54.0 | 63.0 | 80.0 | |
| VOLUME OF WATER SAMPLED (M3) | 65. | 48. | 51. | 40. | 43. | 24. | 34. | 22. | 38. | 84. | |
| TOTAL BIOMASS (G/M3) | .029 | .047 | .059 | .075 | .067 | .005 | .122 | .119 | .094 | .168 | 7.280 |
| EUPHAUSIACEA BIOMASS (G/M3) | .008 | .027 | .039 | .048 | .032 | .055 | .026 | .066 | .037 | .022 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED/DAMAGED MEDUSA | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | . |
| SIPHONOPHORA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .26 | 5.70 | 99. |
| LIMACINA BULIMOIDES | .15 | .42 | .00 | .00 | .62 | .00 | .00 | .00 | .00 | .00 | 8. |
| LIMACINA HELICOIDES | .31 | .84 | .20 | .33 | .00 | .00 | .00 | .00 | .00 | .00 | 11. |
| LIMACINA INFLATA | .46 | .52 | .65 | 2.66 | .00 | .27 | .00 | .00 | .00 | .00 | 32. |
| LIMACINA LESUEURII | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| LIMACINA RETROVERSA | .00 | .00 | .00 | .00 | .31 | .00 | .00 | .00 | .00 | .00 | 2. |
| GYMNOSOMATA | .31 | .31 | .20 | .00 | .00 | .27 | .00 | .00 | .26 | 3.48 | 68. |
| BIVALVE LARVAE | .15 | .21 | .00 | .00 | .00 | .00 | .00 | .30 | .00 | .00 | 4. |
| ACARTIA CLAUSI | 4.45 | 1.88 | .13 | 1.00 | .00 | .14 | .00 | .00 | .00 | .00 | 53. |
| ACARTIA LONGIREMIS | 7.99 | 1.67 | .59 | .67 | .31 | .27 | .00 | .30 | .00 | .00 | 82. |
| ACARTIA SP. | .15 | .00 | .00 | .33 | .31 | .00 | .00 | .00 | .00 | .00 | 5. |
| CALANUS FINMARCHICUS-TOTAL | 3.99 | 1.77 | .92 | 1.00 | 11.42 | 10.56 | 31.04 | 36.80 | 46.86 | 52.57 | 1935. |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .00 | .00 | .00 | .00 | .48 | .30 | .00 | .32 | 10. |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .07 | .00 | 1.23 | .69 | .24 | .60 | .00 | .00 | 17. |
| CALANUS FINMARCHICUS (S) | .00 | .00 | .07 | .00 | .00 | .00 | .72 | .30 | .00 | .00 | 7. |
| CALANUS FINMARCHICUS VIF | .00 | .00 | .13 | .00 | 1.23 | .69 | 1.43 | 1.21 | .00 | .32 | 36. |
| CALANUS FINMARCHICUS V | .31 | .21 | .46 | .33 | 2.78 | 1.10 | 2.39 | 5.73 | 3.93 | 49.09 | 952. |
| CALANUS FINMARCHICUS IV | .15 | .00 | .00 | .00 | 1.85 | 1.23 | 2.39 | 2.11 | .79 | 1.90 | 89. |
| CALANUS FINMARCHICUS III | .46 | .31 | .13 | .33 | 4.01 | 5.21 | 13.13 | 7.84 | 4.19 | .63 | 255. |
| CALANUS FINMARCHICUS II | 2.30 | 1.15 | .13 | .33 | 1.54 | 2.33 | 11.70 | 19.31 | 15.45 | .32 | 384. |
| CALANUS FINMARCHICUS I | .77 | .10 | .07 | .00 | .00 | .00 | .00 | .60 | 22.51 | .32 | 217. |
| CALANUS GLACIALIS V | .00 | .00 | .07 | .00 | .00 | .14 | .00 | .00 | .00 | .63 | 11. |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .52 | .00 | 4. |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | .00 | .32 | 6. |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .32 | 5. |
| CALANUS SP. | .00 | 1.36 | 1.31 | .67 | 2.78 | 9.60 | 7.40 | 15.69 | 4.45 | 5.38 | 361. |
| CALANUS MINOR | 1.38 | 1.36 | .79 | .33 | .62 | .00 | .00 | .00 | .00 | .00 | 32. |
| CALOCALANUS PAVO | .15 | .10 | .26 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3. |
| CENTROPAGES BRADYI | .46 | .63 | .59 | 1.00 | 1.54 | .82 | .24 | .00 | .00 | .00 | 36. |
| CENTROPAGES TYPICUS | .15 | 1.36 | .07 | .00 | .93 | .00 | .00 | .90 | .26 | .00 | 24. |
| CLAUSOCALANUS ARCUICORNIS | .61 | .84 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10. |
| CLAUSOCALANUS FURCATUS | .15 | 4.80 | 6.55 | 58.52 | 54.01 | 9.74 | 11.46 | 17.80 | 14.92 | 4.75 | 1319. |
| CLYTEMNESTRA SCUTELLATA | .00 | .10 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| CONAEA RAPAX | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .52 | .00 | 4. |
| EURYTEMORA HERDMANI | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | . |
| MACROSTELLA GRACILIS | .31 | .42 | .39 | 1.66 | .00 | .14 | .24 | .00 | .00 | .00 | 22. |
| MECYNOCERA CLAUSI | .31 | .42 | .20 | 2.33 | .31 | .14 | .00 | .30 | .00 | .00 | 27. |
| METRIDIA LONGA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .63 | 10. |
| METRIDIA LUCENS | 15.67 | 6.68 | 6.68 | 3.99 | 8.02 | 7.96 | 10.51 | 12.37 | 15.45 | 9.50 | 780. |
| OITHONA ATLANTICA | .00 | .10 | .07 | .00 | .00 | .55 | .48 | .30 | 2.88 | 7.92 | 169. |
| OITHONA SIMILIS | .15 | .00 | .00 | .33 | .00 | .00 | .00 | .00 | 14.66 | .32 | 140. |
| PARACALANUS PARVUS | 3.38 | 1.77 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 37. |
| PSEUDOCALANUS MINUTUS | .00 | .00 | .00 | .00 | .62 | .27 | 1.67 | 1.21 | 2.62 | 2.53 | 91. |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .00 | .00 | .24 | .00 | .00 | .00 | 1. |
| TEMORA LONGICORNIS | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1. |
| UNID/DAM/EXO COPEPOD | 8.14 | 17.75 | 8.58 | 20.62 | 20.06 | 11.39 | 13.37 | 12.37 | 20.42 | 5.70 | 1041. |
| UNIDENTIFIED HARPACTICOID | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . |
| COPEPOD NAUPLII | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | 3.40 | .00 | 31. |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .13 | .33 | .00 | .00 | .00 | .30 | .26 | .00 | 7. |
| PARATHEMISTO SP. | .15 | .21 | .33 | .00 | .00 | .00 | .24 | .00 | .26 | .95 | 25. |
| UNIDENTIFIED AMPHIPOD | .31 | .00 | .00 | .00 | .00 | .00 | .24 | .00 | .00 | .00 | 4. |
| M. NORVEGICA FURCILIA | .31 | .10 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3. |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .31 | .14 | .00 | .00 | .00 | .00 | 2. |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .24 | .00 | .00 | .00 | 1. |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .32 | 5. |
| DAMAGED FURCILIAE | .00 | .21 | .13 | .33 | .00 | .14 | .00 | .00 | .26 | .00 | 7. |
| DECAPOD LARVAE | .00 | .00 | .00 | .33 | .62 | .00 | .00 | .00 | .00 | .00 | 6. |
| SAGITTA ELEGANS | .15 | .52 | .46 | .00 | .62 | .00 | .00 | .00 | .00 | .00 | 12. |
| SAGITTA SP. | .00 | .00 | .00 | .33 | .00 | .00 | .00 | .00 | .00 | .00 | 2. |
| DAMAGED CHAETOGNATH | .00 | .31 | .07 | .33 | .00 | .00 | .00 | .00 | .00 | .00 | 5. |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .26 | .00 | 2. |
| FRITILLARIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .26 | .00 | 2. |
| FISH EGGS | .15 | .42 | .20 | .33 | .00 | .00 | .00 | .30 | .00 | .00 | 9. |

TOW 7 18/09/85 2015H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | | |
| DIPHIDAE | .000 | .000 | .000 | .000 | .000 | .000 | .209 | .181 | .000 | .653 | 13.681 |
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .000 | .165 | .060 | .181 | .000 | .261 | 6.647 |
| UNIDENTIFIED MEDUSA | .000 | .000 | .000 | .000 | .000 | .000 | .030 | .000 | .000 | .000 | .239 |
| CLIONE SP. | .000 | .000 | .000 | .025 | .046 | .165 | .000 | .000 | .131 | .166 | 5.326 |
| TOMOPTERIS SP. | .015 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .012 | .309 |
| AMPHIPODA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .045 | .026 | .143 | 2.885 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .045 | .026 | .143 | 2.885 |
| EUPHAUSIACEA | .553 | .668 | .707 | .673 | .764 | 1.029 | .388 | .543 | .576 | .309 | 45.662 |
| MEGANYCTIPHANES NORVEGICA | .430 | .585 | .589 | .574 | .579 | .576 | .179 | .317 | .236 | .119 | 29.920 |
| THYSANOESSA INERMIS | .046 | .000 | .000 | .100 | .023 | .000 | .030 | .000 | .000 | .024 | 1.825 |
| THYSANOESSA LONGICAUDATA | .077 | .084 | .118 | .000 | .162 | .453 | .179 | .226 | .340 | .166 | 13.916 |
| CHAETOGNATHA | .077 | .084 | .039 | .050 | .000 | .041 | .000 | .000 | .000 | .000 | 1.991 |
| SAGITTA ELEGANS | .061 | .084 | .039 | .050 | .000 | .000 | .000 | .000 | .000 | .000 | 1.678 |
| SAGITTA MAXIMA | .015 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .108 |
| UNIDENTIFIED CHAETOGNATH | .000 | .000 | .000 | .000 | .000 | .041 | .000 | .000 | .000 | .000 | .206 |
| PICES | .000 | .000 | .000 | .025 | .000 | .000 | .000 | .000 | .000 | .000 | .175 |
| UNIDENTIFIED FISH LARVE | .000 | .000 | .000 | .025 | .000 | .000 | .000 | .000 | .000 | .000 | .175 |

| TOW 9 19/09/85 1030H | 42 42.36 N | 61 59.54 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 75.0 | 100.0 | 150.0 | 200.0 | |
| DEPTH2 (M) | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 75.0 | 100.0 | 150.0 | 200.0 | 250.0 | |
| VOLUME OF WATER SAMPLED (M3) | 25. | 13. | 29. | 26. | 29. | 53. | 66. | 198. | 124. | 158. | |
| TOTAL BIOMASS (G/M3) | .056 | .215 | .108 | .319 | .049 | .023 | .015 | .007 | .012 | .009 | 9.811 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .001 | .000 | .005 | .003 | .003 | .001 | .000 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SIPHONOPHORA | .00 | .53 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | 6. |
| CTENOPHORA | .00 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | 1. |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .39 | .14 | .00 | .00 | .00 | .00 | .00 | 5. |
| LIMACINA HELICOIDES | .00 | .53 | .00 | .39 | 1.93 | 1.58 | .46 | .07 | .16 | .00 | 90. |
| LIMACINA INFLATA | 4.98 | 3.17 | .23 | 7.45 | 9.38 | 4.31 | 6.32 | 6.81 | 2.75 | 3.42 | 1166. |
| LIMACINA LESUEURII | .36 | .00 | .23 | .39 | .28 | .06 | .00 | .00 | .05 | .00 | 16. |
| LIMACINA RETROVERSA | 11.02 | 4.76 | .68 | .78 | .28 | .06 | .00 | .00 | .00 | .00 | 176. |
| UNIDENTIFIED THECOSOMATA | 2.49 | 3.70 | .23 | .00 | .55 | .13 | .00 | .00 | .05 | .09 | 80. |
| GYMNOSOMATA | .00 | .00 | .00 | .00 | .83 | 1.46 | .81 | .37 | .00 | .03 | 85. |
| CLIONE SP. | .00 | .00 | .00 | .39 | .00 | .06 | .05 | .10 | .05 | .00 | 14. |
| TOMOPTERIS SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1. |
| CONCHOECIA CURTA | .00 | .00 | .00 | .39 | .41 | .38 | 1.26 | 1.99 | 3.02 | .54 | 326. |
| CONCHOECIA SPINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .03 | 4. |
| CONCHOECIA SPINIROSTRIS | .00 | .00 | .00 | .00 | .00 | .19 | .00 | .00 | .00 | .03 | 6. |
| CONCHOECIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .20 | .20 | .11 | .06 | 23. |
| ACARTIA CLAUSI | 1.78 | 3.70 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | 56. |
| ACARTIA LONGIREMIS | .00 | .00 | 2.85 | 2.35 | .41 | .00 | .00 | .00 | .00 | .00 | 48. |
| AETIDEUS ARMATUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .11 | .35 | 22. |
| CALANUS FINMARCHICUS-TOTAL | 1.78 | 1.06 | .23 | 3.92 | .14 | .06 | .10 | .00 | .05 | .06 | 81. |
| CALANUS FINMARCHICUS V | .71 | 1.06 | .23 | 3.92 | .14 | .00 | .00 | .00 | .05 | .06 | 66. |
| CALANUS FINMARCHICUS IV | .71 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7. |
| CALANUS FINMARCHICUS III | .36 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | 5. |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 2. |
| CALANUS GLACIALIS V | .00 | .00 | .00 | .39 | .00 | .00 | .00 | .00 | .00 | .00 | 3. |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .03 | 4. |
| CALANUS GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1. |
| CALANUS TENUICORNIS-TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .07 | .00 | .00 | 5. |
| CALANUS TENUICORNIS V | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .07 | .00 | .00 | 5. |
| CALANUS SP. | 21.33 | 1.06 | .91 | 8.24 | .55 | .63 | .00 | .00 | .00 | .00 | 336. |
| CALANUS MINOR | .00 | 4.76 | .91 | .78 | .00 | .13 | .10 | .10 | .00 | .00 | 75. |
| CALOCALANUS PAVO | .00 | .00 | .23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2. |
| CALOCALANUS PLUMULOSUS | .00 | .00 | .00 | 2.75 | .14 | .06 | .00 | .00 | .00 | .00 | 30. |
| CANDACIA ARMATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 1. |
| CENTROPAGES BRADYI | 8.53 | 9.52 | 1.37 | 3.14 | 1.79 | .57 | .81 | .17 | .05 | .00 | 289. |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | 1. |
| CHIRIDIUS GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 1. |
| CLAUSOCALANUS ARCUICORNIS | 3.20 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .11 | .03 | 42. |
| CLAUSOCALANUS FURCATUS | 2.84 | .53 | .00 | .00 | .00 | .19 | .15 | .13 | 1.57 | .16 | 135. |
| CLYTEMNESTRA SCUTELLATA | .36 | .00 | .23 | 1.18 | .14 | .00 | .00 | .00 | .00 | .00 | 18. |
| CORYCAEUS TYPICUS | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .03 | .00 | .00 | 2. |
| CORYCAEUS SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .13 | .00 | .00 | 6. |
| EUCHEATA SP. | .36 | .53 | .00 | .00 | .00 | .00 | .00 | .13 | .00 | .25 | 28. |
| EURYTEMORA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | 2. |
| HALOPTILUS LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .35 | 17. |
| MACROSTELLA GRACILIS | 2.49 | 1.59 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | 42. |
| MECYNOCERA CLAUSI | .00 | .00 | .46 | 2.75 | .55 | .25 | .00 | .00 | .00 | .00 | 43. |
| METRIDIA BREVICAUDA | .00 | 1.06 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10. |
| METRIDIA LUCENS | .00 | .00 | .00 | .00 | .14 | .06 | .05 | .00 | .43 | .28 | 40. |
| OITHONA ATLANTICA | .00 | .00 | .00 | .39 | .14 | .25 | .15 | .20 | 1.51 | .03 | 102. |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .14 | .06 | .00 | .13 | .00 | .00 | 9. |
| OITHONA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .06 | 3. |
| ONCAEA CONIFERA | .00 | .00 | .00 | .39 | .00 | .00 | .05 | .03 | .11 | .00 | 12. |
| ONCAEA VENUSTA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .11 | .00 | 5. |
| ONCAEA SP. | .00 | .53 | .00 | .00 | .00 | .13 | .00 | .07 | .22 | .00 | 22. |
| PARACALANUS PARVUS | 1.78 | .00 | .00 | .78 | .00 | .19 | .00 | .03 | .00 | .00 | 32. |
| PLEUROMAMMA ABDOMINALIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1. |
| PLEUROMAMMA BOREALIS | .00 | .53 | .00 | .00 | .00 | .00 | .46 | .00 | .05 | .25 | 32. |
| PLEUROMAMMA GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 1. |
| PLEUROMAMMA SP. | .00 | .00 | .00 | .00 | .28 | .06 | .20 | .10 | .49 | 2.40 | 158. |
| PSEUDOCALANUS MINUTUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1. |
| RHINCALANUS CORNUTUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 1. |
| RHINCALANUS NASUTUS | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .07 | .00 | .00 | 4. |
| SAPPHIRINA MACULOSA | .00 | 1.06 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10. |
| SAPPHIRINA SALI | .71 | 2.65 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | 34. |
| SAPPHIRINA SP. | .00 | .00 | .23 | .39 | .28 | .00 | .00 | .00 | .00 | .00 | 8. |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .03 | 5. |
| SPINOCALANUS ABYSSALLIS | .36 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3. |

TOW 9 19/09/85 1030H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.69 |
| UNID/DAM/EXO COPEPOD | 25.24 | 3.17 | 2.96 | 4.31 | 3.17 | 3.23 | 1.37 | .40 | 1.84 | 1.71 | 700.95 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.69 |
| UNIDENTIFIED AMPHIPOD | .36 | .00 | .00 | .00 | .14 | .06 | .00 | .00 | .00 | .35 | 23.91 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .46 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 4.55 |
| THYSANOESSA SP. FURCILIAE | .36 | .53 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 8.85 |
| THYSANOESSA SP. CALYPTOSIS | 1.78 | 1.59 | .00 | .00 | .00 | .06 | .05 | .00 | .11 | .00 | 41.90 |
| EUPHAUSIID EGGS | .36 | .00 | .00 | .39 | .00 | .00 | .05 | .00 | .00 | .03 | 10.32 |
| EUPHAUSIID NAUPLII | .00 | .53 | .00 | .39 | .00 | .00 | .00 | .00 | .05 | .00 | 11.91 |
| DAMAGED EUPHAUSID | .00 | .00 | .00 | .78 | .14 | .00 | .10 | .00 | .00 | .00 | 11.75 |
| DAMAGED FURCILIAE | .36 | 1.06 | .23 | .00 | .00 | .00 | .00 | .00 | .00 | .06 | 19.58 |
| DECAPOD LARVAE | .00 | .00 | .23 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | 3.86 |
| SAGITTA ELEGANS | 1.07 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | 12.25 |
| SAGITTA MAXIMA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.69 |
| SAGITTA SP. | .36 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.56 |
| DAMAGED CHAETOGNATH | .71 | .00 | .00 | .00 | .14 | .00 | .05 | .00 | .00 | .03 | 11.34 |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | 1.38 |
| SALP | 42.31 | 80.95 | 54.38 | 122.35 | 14.07 | 6.46 | .86 | .07 | .43 | .00 | 3348.71 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .235 | .000 | .095 | .000 | .000 | .008 | .000 | 5.134 |
| AMPHIPODA | .040 | .000 | .000 | .000 | .034 | .000 | .000 | .000 | .000 | .000 | .745 |
| PHRONIMA SP. | .000 | .000 | .000 | .000 | .034 | .000 | .000 | .000 | .000 | .000 | .345 |
| UNIDENTIFIED GAMMARID | .040 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .400 |
| EUPHAUSIACEA | .040 | .079 | .068 | .549 | .276 | .304 | .106 | .010 | .000 | .025 | 22.156 |
| EUPHAUSIA KROHNII | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .019 | 1.202 |
| STYLOCHEIRON SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .006 | .316 |
| THYSANOESSA LONGICAUDATA | .040 | .079 | .068 | .549 | .276 | .304 | .106 | .000 | .000 | .000 | 20.385 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .253 |
| DECAPODA | .000 | .238 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 2.381 |
| IMMATURE DECAPOD | .000 | .159 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.587 |
| UNIDENTIFIED DECAPOD | .000 | .079 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .794 |
| CHAETOGNATHA | .040 | .000 | .034 | .039 | .000 | .000 | .015 | .005 | .032 | .025 | 4.650 |
| SAGITTA ELEGANS | .040 | .000 | .000 | .039 | .000 | .000 | .000 | .000 | .000 | .000 | .792 |
| SAGITTA HEXAPTERA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .016 | .006 | 1.126 |
| SAGITTA MAXIMA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .016 | .019 | 1.758 |
| UNIDENTIFIED CHAETOGNATH | .000 | .000 | .034 | .000 | .000 | .000 | .015 | .005 | .000 | .000 | .973 |
| PICES | .040 | .159 | .068 | .118 | .000 | .000 | .015 | .005 | .000 | .000 | 4.479 |
| BATHYLAGUS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .253 |
| CARAPIDAE SP. | .000 | .000 | .000 | .039 | .000 | .000 | .000 | .000 | .000 | .000 | .392 |
| CYCLOTHONE SP. | .000 | .159 | .034 | .039 | .000 | .000 | .000 | .000 | .000 | .000 | 2.321 |
| IMMATURE GONOSTOMATIDAE | .000 | .000 | .000 | .000 | .000 | .000 | .015 | .000 | .000 | .000 | .379 |
| LAMPANYCTUS SP. | .000 | .000 | .034 | .039 | .000 | .000 | .000 | .000 | .000 | .000 | .733 |
| UNIDENTIFIED FISH LARVE | .040 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .400 |

| TOW 8 19/09/85 0830H | 42 44.89 N 61 15.80 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | |
| DEPTH1 (M) | 250.0 | 300.0 | 350.0 | 400.0 | 450.0 | 500.0 | 550.0 | 650.0 | |
| DEPTH2 (M) | 300.0 | 350.0 | 400.0 | 450.0 | 500.0 | 550.0 | 650.0 | 800.0 | |
| VOLUME OF WATER SAMPLED (M3) | 252. | 201. | 199. | 187. | 154. | 175. | 285. | 391. | |
| TOTAL BIOMASS (G/M3) | .016 | .015 | .014 | .021 | .045 | .036 | .045 | .045 | 18.551 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .000 | .004 | .001 | .001 | .000 | .000 | |
| SIPHONOPHORA | .00 | .00 | .00 | .00 | .00 | .00 | .19 | .00 | 18.69 |
| LIMACINA HELICOIDES | .05 | .00 | .00 | .05 | .15 | .00 | .09 | .00 | 22.08 |
| LIMACINA INFLATA | .16 | .88 | .00 | .45 | .89 | .38 | .28 | .10 | 181.47 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 2.67 |
| GYMNOSOMATA | .00 | .16 | .08 | .00 | .00 | .00 | .00 | .00 | 11.99 |
| EVADNE SP. | .00 | .00 | .00 | .00 | 1.04 | .00 | .00 | .00 | 51.98 |
| DAMAGED CLADOCERA | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .03 | 12.54 |
| CONCHOECIA AMETRA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | 10.22 |
| CONCHOECIA BOREALIS | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .34 | 58.54 |
| CONCHOECIA CURTA | .53 | .96 | 1.13 | .64 | .59 | .08 | .19 | .00 | 214.82 |
| CONCHOECIA DAPHOIDES | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | 3.82 |
| CONCHOECIA INERMIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| CONCHOECIA OBTUSATA | .00 | .00 | .00 | .05 | .00 | .08 | .00 | .07 | 16.71 |
| CONCHOECIA SPINIFERA | .05 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | 10.07 |
| CONCHOECIA ATLANTICA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| CONCHOECIA SPINIROSTRIS | .00 | .00 | .08 | .00 | .30 | .00 | .00 | .07 | 29.10 |
| CONCHOECIA SP. | .48 | .00 | .48 | .08 | .30 | .00 | .19 | .17 | 111.02 |
| CONCHOECIA IMBRICATA | .00 | .00 | .08 | .00 | .00 | .00 | .00 | .00 | 4.02 |
| ACARTIA LONGIREMIS | .00 | .24 | .08 | .03 | .00 | .15 | .00 | .00 | 24.95 |
| AETIDEUS ARMATUS | .00 | .08 | .08 | .00 | .00 | .00 | .00 | .00 | 8.01 |
| AMALLOTHRIX SP. | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | 9.34 |
| ARIETELLUS SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| CALANUS FINMARCHICUS-TOTAL | .16 | .24 | .97 | .80 | 23.32 | 17.10 | 14.95 | 2.93 | 4063.41 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .10 | 19.15 |
| CALANUS FINMARCHICUS (S) | .00 | .00 | .00 | .03 | .15 | .31 | .28 | .24 | 87.83 |
| CALANUS FINMARCHICUS VIF | .00 | .00 | .00 | .03 | .15 | .38 | .00 | .34 | 78.95 |
| CALANUS FINMARCHICUS V | .16 | .16 | .64 | .45 | 21.68 | 16.33 | 14.39 | 2.42 | 3773.41 |
| CALANUS FINMARCHICUS IV | .00 | .08 | .32 | .32 | 1.49 | .38 | .56 | .17 | 211.05 |
| CALANUS GLACIALIS V | .11 | .08 | .08 | .05 | 1.04 | .84 | 3.64 | .44 | 540.77 |
| CALANUS GLACIALIS IV | .00 | .08 | .00 | .03 | .00 | .00 | .00 | .00 | 5.32 |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .08 | .05 | .00 | .15 | .65 | .41 | 141.06 |
| CALANUS HYPERBOREUS V | .00 | .00 | .08 | .00 | .00 | .08 | .28 | .24 | 71.65 |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .05 | .00 | .08 | .28 | .17 | 60.07 |
| CALANUS SP. | .00 | .08 | .00 | .85 | 1.04 | 2.21 | .37 | .17 | 272.28 |
| CALOCALANUS PAVO | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | 3.82 |
| CALOCALANUS PLUMULOSUS | .00 | .00 | .00 | .08 | .15 | .08 | .00 | .00 | 15.25 |
| CENTROPAGES BRADYI | .00 | .00 | .00 | .16 | .15 | .15 | .09 | .00 | 32.41 |
| CHIRIDIUS GRACILIS | .11 | .00 | .16 | .00 | .00 | .00 | .00 | .00 | 13.33 |
| CLAUSOCALANUS ARCUICORNIS | .00 | .08 | .24 | .24 | .00 | .00 | .00 | .00 | 28.07 |
| CLAUSOCALANUS FURCATUS | .58 | .32 | .16 | .16 | .00 | .15 | .00 | .00 | 68.71 |
| CORYCAEUS GIESBRECHTI | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | 1.33 |
| CORYCAEUS SP. | .00 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | 3.99 |
| EUAUGAPTILUS SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| EUCHAETA ACUTA | .00 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | 3.99 |
| EUCHEATA NORVEGICA | .00 | .00 | .08 | .27 | .00 | .00 | .47 | .75 | 176.53 |
| EUCHEATA SP. | .21 | .24 | .80 | .00 | .74 | .23 | .00 | .00 | 111.33 |
| GAETANUS MINOR | .00 | .08 | .08 | .00 | .00 | .00 | .00 | .00 | 8.01 |
| GAETANUS SP. IMMATURE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | 15.33 |
| GAIDIUS TENUISPINUS | .05 | .08 | .72 | .05 | .45 | .23 | .93 | .31 | 218.66 |
| GAIDIUS BREVISPINUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| HALOPTILUS LONGICORNIS | .05 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | 6.63 |
| MACROSTELLA GRACILIS | .00 | .00 | .00 | .05 | .00 | .00 | .09 | .00 | 12.01 |
| MECYNOCERA CLAUSI | .00 | .08 | .00 | .11 | .15 | .38 | .00 | .00 | 35.83 |
| METRIDIA LONGA | .00 | .00 | .00 | .00 | .30 | .15 | .56 | .07 | 88.77 |
| METRIDIA LUCENS | .32 | .56 | .64 | .32 | .74 | .31 | 1.21 | .72 | 373.15 |
| OITHONA ATLANTICA | .16 | .32 | .08 | .21 | .00 | .15 | .37 | .00 | 83.58 |
| OITHONA SIMILIS | .05 | .00 | .00 | .00 | .30 | .15 | .00 | .03 | 30.24 |
| ONCAEA CONIFERA | .05 | .00 | .00 | .00 | .15 | .00 | .00 | .03 | 15.18 |
| ONCAEA SP. | .16 | .00 | .00 | .13 | .30 | .15 | .37 | .24 | 110.24 |
| PARACALANUS PARVUS | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 2.67 |
| PLEUROMAMMA BOREALIS | 8.46 | 10.84 | 7.80 | .67 | .74 | .15 | .19 | .07 | 1462.23 |
| PLEUROMAMMA GRACILIS | .05 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | 6.63 |
| PLEUROMAMMA ROBUSTA | .00 | .48 | .48 | .99 | 2.08 | .31 | .00 | .00 | 216.66 |
| PLEUROMAMMA SP. | 4.07 | .48 | .08 | .00 | .30 | .00 | .09 | .03 | 260.79 |
| PLEUROMAMMA XIPHIAS | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | 2.67 |
| PSEUDOCALANUS MINUTUS | .11 | .40 | .48 | .08 | .00 | .31 | .28 | .00 | 96.65 |
| RHINCALANUS CORNUTUS | .00 | .32 | .24 | .19 | .15 | .00 | .00 | .07 | 55.00 |

TOW 8 19/09/85 0830H (CONTINUED)

| SAMPLE | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | |
|---|---|---|---|---|---|---|---|---|---|
| RHINCALANUS NASUTUS | .05 | .00 | .00 | .03 | .00 | .00 | .00 | .03 | 9.09 |
| SCAPHOCALANUS BREVICORNIS | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .03 | 12.54 |
| SCAPHOCALANUS MAGNUS | .00 | .00 | .00 | .13 | .30 | .00 | .00 | .00 | 21.53 |
| SCAPHOCALANUS MEDIUS | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | 9.34 |
| SCAPHOCALANUS SP. | .00 | .00 | .08 | .00 | .00 | .00 | .00 | .00 | 4.02 |
| SCOLECITHRICELLA MINOR | .21 | .08 | .40 | .11 | .00 | .08 | .00 | .03 | 48.94 |
| SCOTTCALANUS SECURIFRONS | .00 | .00 | .00 | .00 | .00 | .15 | .00 | .00 | 7.63 |
| SPINOCALANUS ABYSSALLIS | .05 | .16 | .64 | .16 | 1.34 | .00 | .19 | .00 | 136.32 |
| SPINOCALANUS SP. | .00 | .00 | .00 | .00 | .15 | .08 | .09 | .44 | 87.03 |
| TEMORA LONGICORNIS | .00 | .00 | .08 | .00 | .00 | .00 | .00 | .00 | 4.02 |
| XANTHOCALANUS BOREALIS | .00 | .00 | .08 | .00 | .00 | .00 | .09 | .10 | 28.70 |
| UNID/DAM/EXO COPEPOD | 5.60 | 3.03 | 3.46 | 2.86 | 2.82 | 4.05 | 1.59 | 2.32 | 1597.19 |
| AMPHIPOD-DAMAGED | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .10 | 24.68 |
| UNIDENTIFIED AMPHIPOD | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 7.75 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | 9.34 |
| T. LONGICAUDATA FURCILIAE | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.64 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .08 | .00 | .03 | .00 | .00 | .00 | .00 | 5.32 |
| DAMAGED FURCILIAE | .00 | .00 | .08 | .03 | .00 | .00 | .00 | .00 | 5.36 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | 7.43 |
| SAGITTA ELEGANS | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | 3.82 |
| SAGITTA MAXIMA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| DAMAGED CHAETOGNATH | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | 5.11 |
| OIKOPLEURA SP. | .00 | .00 | .08 | .00 | .00 | .00 | .00 | .00 | 4.02 |
| AMMODYTES SP. | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | 1.33 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| PERIPHYLLA | .000 | .000 | .000 | .000 | .000 | .000 | .004 | .005 | 1.117 |
| UNIDENTIFIED MEDUSA | .000 | .000 | .000 | .000 | .000 | .000 | .014 | .000 | 1.402 |
| CTENOPHORA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| LIMACINA SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| THECOSOMATA | .000 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .249 |
| UNIDENTIFIED POLYCHAET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| AMPHIPODA | .000 | .000 | .005 | .000 | .000 | .000 | .004 | .003 | .985 |
| UNIDENTIFIED GAMMARID | .000 | .000 | .005 | .000 | .000 | .000 | .004 | .000 | .602 |
| UNIDENTIFIED AMPHIPOD | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| MYSIDACEA | .000 | .000 | .000 | .000 | .000 | .000 | .011 | .023 | 4.501 |
| BOREOMYSIS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .011 | .015 | 3.351 |
| EUCOPIA SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .008 | 1.150 |
| EUPHAUSIACEA | .032 | .025 | .010 | .037 | .039 | .029 | .000 | .000 | 8.583 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .000 | .027 | .000 | .000 | .000 | .000 | 1.335 |
| NEMATOSCELIS MEGALOPS | .008 | .000 | .000 | .000 | .019 | .011 | .000 | .000 | 1.944 |
| THYSANOESSA LONGICAUDATA | .000 | .010 | .005 | .005 | .019 | .011 | .000 | .000 | 2.564 |
| THYSANOPODA SP. | .024 | .010 | .005 | .005 | .000 | .006 | .000 | .000 | 2.492 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .249 |
| DECAPODA | .000 | .000 | .010 | .011 | .052 | .029 | .018 | .010 | 8.352 |
| CARIDEA | .000 | .000 | .000 | .005 | .006 | .000 | .000 | .000 | .592 |
| GENNADAS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .004 | .003 | .734 |
| SERGESTES SP. | .000 | .000 | .005 | .005 | .045 | .017 | .011 | .003 | 5.086 |

TOW 8 19/09/85 0830H (CONTINUED)

| SAMPLE | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | |
|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED DECAPOD | .000 | .000 | .005 | .000 | .000 | .011 | .004 | .003 | 1.558 |
| CHAETOGNATHA | .024 | .060 | .025 | .005 | .019 | .034 | .074 | .074 | 26.870 |
| EUKHRONIA FOWLERI | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .015 | 2.300 |
| EUKHRONIA HAMATA | .000 | .005 | .025 | .005 | .019 | .017 | .053 | .036 | 14.229 |
| SAGITTA ELEGANS | .004 | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .549 |
| SAGITTA MAXIMA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .008 | 1.150 |
| UNIDENTIFIED CHAETOGNATH | .000 | .025 | .000 | .000 | .000 | .017 | .018 | .015 | 6.156 |
| SAGITTA SP. | .020 | .030 | .000 | .000 | .000 | .000 | .000 | .000 | 2.486 |
| PICES | .004 | .005 | .010 | .000 | .006 | .006 | .077 | .028 | 13.486 |
| ANGUILLA ROSTRATA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .383 |
| BENTHOSEMA GLACIALE | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .582 |
| CERATOSCOPELUS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .350 |
| CHAULIODIUS SP. | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .325 |
| CYCLOTHONE SP. | .000 | .000 | .000 | .000 | .000 | .000 | .063 | .023 | 9.757 |
| DIAPHUS SP. | .000 | .005 | .010 | .000 | .000 | .000 | .000 | .000 | .752 |
| IMMATURE GONOSTOMATIDAE | .000 | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .350 |
| IMMATURE MYCTOPHID | .000 | .000 | .000 | .000 | .000 | .006 | .007 | .000 | .987 |

| TOW 12 21/09/85 1330H 45 45.21 N 59 50.68 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | .0 | 10.0 | 20.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 65.0 | |
| DEPTH2 (M) | 10.0 | 20.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 65.0 | 90.0 | |
| VOLUME OF WATER SAMPLED (M3) | 37. | 28. | 28. | 16. | 15. | 14. | 14. | 24. | 32. | 105. | |
| TOTAL BIOMASS (G/M3) | .040 | .166 | .154 | .068 | .085 | .041 | .059 | .010 | .030 | .076 | 7.114 |
| EUPHAUSIACEA BIOMASS (G/M3) | .006 | .014 | .003 | .001 | .036 | .000 | .000 | .000 | .000 | .018 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FORAMINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .35 | .00 | .00 | .00 | 1.76 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | 1.23 | 3.90 | 1.84 | 2.11 | .28 | .42 | .61 | 66.16 |
| LIMACINA LESUEURII | .00 | .00 | .00 | 14.72 | 1.30 | .00 | 1.06 | .42 | .10 | .00 | 88.52 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | 1.23 | .65 | .00 | .00 | .00 | .00 | .00 | 9.38 |
| LIMACINA SP. | 15.05 | 57.14 | 45.71 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | 1186.73 |
| GYMNOSOMATA | .00 | .00 | .00 | 2.45 | .00 | .00 | .00 | .00 | .00 | .00 | 12.27 |
| BIVALVE LARVAE | 2.15 | 3.81 | .00 | 1.84 | .65 | .00 | .00 | .14 | .00 | .00 | 72.74 |
| POLYCHAETA LARVAE | .00 | .00 | 2.86 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 28.57 |
| EVADNE SP. | .00 | .00 | .00 | .00 | .00 | .37 | .00 | .00 | .00 | .00 | 1.84 |
| EVADNE NORDMANNI | 10.22 | 72.38 | 2.86 | .00 | 1.30 | .00 | 2.11 | .14 | .10 | .00 | 873.32 |
| EVADNE SPINIFERA | .00 | .00 | .00 | .00 | .00 | .74 | .00 | .00 | .00 | .00 | 3.68 |
| PODON SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .21 | .00 | 2.08 |
| PODON LEUCKARTI | 66.13 | 121.90 | 20.00 | .00 | 1.30 | .37 | 1.76 | .56 | .00 | .00 | 2100.25 |
| DAMAGED CLADOCERA | 2.69 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | 34.50 |
| ACARTIA LONGIREMIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | 1.04 |
| CALANUS FINMARCHICUS-TOTAL | 74.19 | 514.29 | 571.43 | 90.18 | 37.66 | 31.25 | 33.45 | 7.08 | 18.65 | 56.38 | 14193.21 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .00 | 1.23 | .00 | .00 | .70 | .00 | .00 | .00 | 9.66 |
| CALANUS FINMARCHICUS (G) | .54 | .00 | 11.43 | 3.07 | 1.30 | .37 | 1.41 | .21 | .52 | .30 | 164.24 |
| CALANUS FINMARCHICUS (S) | .54 | .00 | .00 | 1.23 | .00 | .00 | .00 | .00 | .63 | .30 | 25.38 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .31 | .00 | 3.47 |
| CALANUS FINMARCHICUS VIF | 1.08 | .00 | 11.43 | 5.52 | 1.30 | .37 | .00 | .21 | 1.15 | .61 | 188.72 |
| CALANUS FINMARCHICUS V | 1.61 | 26.67 | 40.00 | 14.72 | 12.99 | 9.56 | 13.38 | 2.71 | 12.40 | 53.94 | 2422.12 |
| CALANUS FINMARCHICUS IV | 1.61 | 156.19 | 105.71 | 42.94 | 16.23 | 8.46 | 7.04 | 1.25 | 2.50 | .91 | 3062.67 |
| CALANUS FINMARCHICUS III | 10.22 | 133.33 | 137.14 | 8.59 | 5.19 | 2.94 | 4.58 | 1.18 | .94 | .30 | 2936.32 |
| CALANUS FINMARCHICUS II | 25.81 | 182.86 | 262.86 | 4.29 | 1.95 | 6.99 | 5.28 | 1.11 | .94 | .30 | 4830.30 |
| CALANUS FINMARCHICUS I | 33.87 | 15.24 | 14.29 | 14.11 | .00 | 2.94 | 3.17 | .56 | .42 | .30 | 749.61 |
| CALANUS GLACIALIS V | .00 | .00 | .00 | .00 | .65 | .00 | .00 | .07 | .31 | 2.74 | 75.29 |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .21 | .61 | 17.32 |
| CALANUS GLACIALIS III | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | 7.62 |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .00 | .00 | .65 | .37 | .35 | .00 | .10 | 3.35 | 91.70 |
| CALANUS HYPERBOREUS IV | .00 | .00 | .00 | .00 | .65 | .37 | .35 | .00 | .10 | 3.05 | 84.08 |
| CENTROPAGES BRADYI | .00 | 3.81 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 38.10 |
| CENTROPAGES TYPICUS | .00 | 106.67 | 8.57 | .00 | 3.90 | 2.57 | 1.41 | .14 | .52 | .61 | 1212.91 |
| CENTROPAGES SP. | 15.59 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 155.91 |
| CLAUSOCALANUS FURCATUS | .00 | 7.62 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 76.19 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .00 | .00 | .37 | .00 | .00 | .00 | .00 | 1.84 |
| EUCHAETA TONSA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | 7.62 |
| EUCHEATA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .42 | .30 | 11.79 |
| METRIDIA LONGA | .00 | 3.81 | .00 | .61 | .00 | .00 | .00 | .00 | .10 | .00 | 42.20 |
| METRIDIA LUCENS | 3.23 | .00 | 51.43 | 63.19 | 37.01 | 12.50 | 11.27 | 1.04 | 2.50 | 1.52 | 1234.70 |
| MICROSTELLA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .35 |
| OITHONA ATLANTICA | .00 | .00 | .00 | .00 | .65 | .37 | .00 | .00 | .21 | .61 | 22.41 |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .00 | 1.10 | .35 | .00 | .63 | 7.92 | 211.62 |
| OITHONA SP. | 1.08 | .00 | .00 | .61 | .00 | .00 | 1.41 | .14 | .00 | .00 | 21.56 |
| PARACALANUS PARVUS | .00 | .00 | 2.86 | .61 | .00 | .00 | .35 | .00 | .00 | .00 | 33.40 |
| PLEUROMAMMA BOREALIS | .00 | .00 | .00 | .00 | .00 | .37 | .00 | .00 | .00 | .00 | 1.84 |
| PLEUROMAMMA SP. | .00 | .00 | .00 | .00 | .00 | .37 | .00 | .00 | .00 | .00 | 1.84 |
| PSEUDOCALANUS MINUTUS | 8.06 | 102.86 | 28.57 | 23.93 | 11.69 | 14.34 | 13.03 | .00 | .63 | .91 | 1738.94 |
| RHINCALANUS CORNUTUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .91 | 22.86 |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .61 | 16.28 |
| SPINOCALANUS ABYSSALLIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.52 | 38.10 |
| TEMORA LONGICORNIS | 6.45 | 118.10 | 111.43 | 46.63 | 13.64 | 6.99 | 5.63 | 1.46 | 2.19 | .30 | 2760.95 |
| UNID/DAM/EXO COPEPOD | 52.15 | 76.19 | 57.14 | 30.67 | 63.64 | 45.59 | 17.25 | 4.51 | 15.31 | 4.57 | 2930.58 |
| COPEPOD NAUPLII | .00 | .00 | .00 | .00 | .65 | .00 | .00 | .00 | .00 | .00 | 3.25 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .21 | .00 | 2.43 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .61 | .00 | .00 | .00 | .00 | .00 | .00 | 3.07 |
| UNIDENTIFIED AMPHIPOD | .00 | .00 | .00 | 1.84 | 1.95 | .00 | .00 | .00 | .00 | .00 | 18.94 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | 1.04 |
| UNIDENTIFIED CALYPTOSIS | .00 | 3.81 | 5.71 | .00 | .65 | .00 | .35 | .00 | .00 | .00 | 100.25 |
| EUPHAUSIID NAUPLII | 12.90 | 83.81 | 8.57 | .61 | 1.30 | .74 | 1.06 | .21 | .10 | .00 | 1073.44 |
| DAMAGED EUPHAUSID | .00 | 3.81 | .00 | .00 | .65 | .00 | .00 | .07 | .00 | .00 | 41.69 |
| UNIDENTIFIED EUPHAUSID | .00 | .00 | .00 | .00 | .00 | .00 | .35 | .00 | .00 | .00 | 1.76 |
| DAMAGED FURCILIAE | .00 | .00 | 5.71 | 7.98 | .65 | .00 | .00 | .14 | .00 | .00 | 100.96 |

TOW 12 21/09/85 1330H (CONTINUED)

| SAMPLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | | #/M2 |
| ECHINODERMATA-LARVAE | .00 | .00 | 14.29 | .00 | .65 | 2.94 | 3.52 | 1.39 | 1.25 | .30 | 205. |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .00 | 5.88 | .00 | .00 | 4.69 | .00 | 76. |
| UNIDENTIFIED APPENDICULARIA | .00 | .00 | .00 | 3.07 | 7.79 | .00 | .00 | 1.94 | .00 | .00 | 64. |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 4.48 | .00 | 44. |
| FRITILLARIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .21 | .10 | .00 | 2. |
| FISH EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | 1. |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPHIPODA | .027 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .2 |
| UNIDENTIFIED AMPHIPOD | .027 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .2 |
| EUPHAUSIACEA | .188 | .214 | .429 | .184 | .584 | .000 | .423 | .083 | .000 | .248 | 20.8 |
| MEGANYCTIPHANES NORVEGICA | .134 | .143 | .214 | .061 | .519 | .000 | .141 | .000 | .000 | .000 | 8.5 |
| THYSANOESSA INERMIS | .027 | .036 | .036 | .061 | .065 | .000 | .000 | .000 | .000 | .171 | 5.9 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .076 | 1.9 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .027 | .036 | .179 | .061 | .000 | .000 | .282 | .042 | .000 | .000 | 4.3 |
| THYSANOESSA SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .042 | .000 | .000 | .2 |
| CHAETOGNATHA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .042 | .156 | .648 | 17.9 |
| EUKHRONIA HAMATA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .010 | .2 |
| SAGITTA ELEGANS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .042 | .156 | .638 | 17.7 |

| TOW 13 21/09/85 1745H | 45 27.05 N | 59 39.28 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| DEPTH1 (M) | 110.0 | 90.0 | 75.0 | 65.0 | 55.0 | 45.0 | 35.0 | 25.0 | |
| DEPTH2 (M) | 90.0 | 75.0 | 65.0 | 55.0 | 45.0 | 35.0 | 25.0 | 15.0 | |
| VOLUME OF WATER SAMPLED (M3) | 91. | 90. | 56. | 54. | 92. | 33. | 38. | 40. | |
| TOTAL BIOMASS (G/M3) | .232 | .144 | .085 | .067 | .107 | .117 | .111 | .261 | 14.262 |
| EUPHAUSIACEA BIOMASS (G/M3) | .001 | .010 | .001 | .000 | .000 | .000 | .000 | .000 | |
| UNIDENTIFIED/DAMAGED MEDUSA | .00 | .00 | .36 | .25 | .43 | .00 | .00 | .00 | 10.41 |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .00 | .00 | 3.50 | .00 | 35.00 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | .00 | .00 | 2.80 | .00 | 28.00 |
| LIMACINA INFLATA | .00 | .00 | .00 | .25 | .00 | .00 | .70 | .00 | 9.47 |
| LIMACINA LESUEURII | .00 | .00 | 1.44 | .49 | .43 | 3.26 | 1.40 | 153.52 | 1605.45 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | .00 | .00 | 1.40 | 15.88 | 172.81 |
| GYMNOSOMATA | .00 | .00 | .00 | .00 | .00 | .00 | .70 | .00 | 7.00 |
| BIVALVE LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .70 | .00 | 7.00 |
| EVADNE NORDMANNI | .88 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 17.58 |
| PODON LEUCKARTI | .00 | .00 | .36 | .25 | .00 | .00 | .00 | .00 | 6.07 |
| CALANUS FINMARCHICUS-TOTAL | 96.70 | 22.64 | 63.67 | 32.35 | 65.65 | 100.31 | 144.88 | 672.29 | 13065.15 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .00 | .49 | 5.22 | 3.26 | .00 | .00 | 89.73 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .00 | .00 | 1.40 | .00 | 14.00 |
| CALANUS FINMARCHICUS (S) | 1.76 | .00 | .72 | .25 | .00 | .00 | 7.00 | .00 | 114.82 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .43 | .82 | 2.10 | .00 | 33.50 |
| CALANUS FINMARCHICUS VIF | 1.76 | .00 | .72 | .74 | 5.22 | 3.26 | 8.40 | .00 | 218.55 |
| CALANUS FINMARCHICUS V | 69.45 | 19.24 | 46.04 | 20.25 | 50.43 | 73.39 | 112.69 | 95.29 | 5658.49 |
| CALANUS FINMARCHICUS IV | 25.49 | 2.52 | 10.79 | 7.16 | 5.65 | 15.49 | 15.40 | 275.27 | 3845.28 |
| CALANUS FINMARCHICUS III | .00 | .44 | 3.60 | 2.96 | 2.61 | 7.34 | 4.90 | 232.92 | 2549.93 |
| CALANUS FINMARCHICUS II | .00 | .30 | 1.44 | 1.23 | .87 | .00 | .00 | 58.23 | 622.17 |
| CALANUS FINMARCHICUS I | .00 | .15 | 1.08 | .00 | .43 | .00 | 1.40 | 10.59 | 137.23 |
| CALANUS GLACIALIS (D) | .88 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 17.58 |
| CALANUS GLACIALIS VIF | .88 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 17.58 |
| CALANUS GLACIALIS V | .00 | .44 | .36 | .00 | 1.30 | 1.63 | 1.40 | .00 | 53.61 |
| CALANUS GLACIALIS IV | 18.46 | .89 | 2.52 | .25 | .87 | .00 | .70 | .00 | 425.89 |
| CALANUS GLACIALIS III | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | 2.22 |
| CALANUS HYPERBOREUS-TOTAL | 29.89 | 5.62 | 11.51 | 1.73 | .87 | .00 | 1.40 | .00 | 837.24 |
| CALANUS HYPERBOREUS V | 1.76 | .15 | .36 | .00 | .00 | .00 | .00 | .00 | 40.98 |
| CALANUS HYPERBOREUS IV | 26.37 | 4.14 | 8.99 | 1.23 | .87 | .00 | 1.40 | .00 | 714.59 |
| CENTROPAGES TYPICUS | .00 | .15 | 3.24 | 1.23 | .43 | 3.26 | 5.60 | 84.70 | 986.88 |
| CLAUSOCALANUS FURCATUS | .00 | .00 | .00 | .25 | .00 | .00 | .00 | 10.59 | 108.34 |
| EUCHEATA NORVEGICA | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | 2.22 |
| EUCHEATA SP. | .00 | .00 | .00 | .25 | .00 | .00 | .00 | .00 | 2.47 |
| METRIDIA LONGA | .00 | .00 | .36 | .00 | .43 | .00 | .70 | .00 | 14.94 |
| METRIDIA LUCENS | 7.03 | 2.66 | 8.63 | 11.85 | 21.30 | 4.89 | 9.80 | 21.17 | 957.17 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .36 | .00 | .00 | .00 | .00 | .00 | 3.60 |
| OITHONA ATLANTICA | .88 | .89 | 27.70 | .00 | 1.74 | .00 | .00 | 5.29 | 378.21 |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .43 | .82 | .70 | 5.29 | 72.44 |
| OITHONA SP. | .00 | .44 | 1.80 | .25 | .43 | .00 | .00 | .00 | 31.46 |
| PARACALANUS PARVUS | .00 | .00 | .00 | .00 | .00 | .00 | .70 | 5.29 | 59.94 |
| PSEUDOCALANUS MINUTUS | 6.15 | 3.85 | 14.03 | 6.67 | 10.43 | 36.70 | 61.59 | 444.67 | 5921.64 |
| TEMORA LONGICORNIS | .00 | .74 | 3.24 | 1.73 | 4.35 | 1.63 | .70 | 79.40 | 921.59 |
| UNID/DAM/EXO COPEPOD | 17.58 | .00 | 23.74 | 12.35 | 10.43 | 25.28 | 23.10 | 243.51 | 3735.71 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .36 | .00 | .00 | .00 | .00 | .00 | 3.60 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 5.29 | 52.94 |
| UNIDENTIFIED AMPHIPOD | .00 | .00 | .00 | .00 | .43 | .00 | .00 | .00 | 4.35 |
| M. NORVEGICA ADULT | .00 | .00 | .00 | .25 | .00 | .00 | .00 | .00 | 2.47 |
| M. NORVEGICA CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 31.76 | 317.62 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .43 | .00 | .00 | .00 | 4.35 |
| THYSANOESSA RASCHII FURCILIA | .00 | .00 | .00 | .00 | .00 | 1.63 | 4.90 | .00 | 65.30 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | 2.10 | .00 | 21.00 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .00 | .00 | .82 | .00 | .00 | 8.15 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .43 | .00 | .00 | .00 | 4.35 |
| DAMAGED FURCILIAE | .00 | .15 | .36 | .00 | .00 | .82 | .70 | 5.29 | 73.91 |
| ECHINODERMATA-LARVAE | 1.76 | .00 | .36 | .00 | .43 | 1.63 | .00 | 10.59 | 165.29 |
| SAGITTA SP. | .00 | .00 | .36 | .00 | .00 | .00 | .00 | .00 | 3.60 |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .00 | 1.63 | .00 | .00 | 16.31 |
| UNIDENTIFIED APPENDICULARIA | .00 | .00 | .00 | .00 | 2.17 | .00 | .00 | .00 | 21.74 |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .00 | 8.97 | .00 | .00 | 89.70 |

TOW 13 21/09/85 1745H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
|---|---|---|---|---|---|---|---|---|---|
| L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N | | | | | | | | | |
| UNIDENTIFIED SIPHONOPHORE | .022 | .000 | .000 | .019 | .000 | .000 | .000 | .000 | .625 |
| CTENOPHORA | .022 | .011 | .000 | .000 | .000 | .000 | .000 | .000 | .606 |
| AMPHIPODA | .022 | .022 | .000 | .000 | .000 | .000 | .000 | .000 | .773 |
| PARATHEMISTO GAUDICHAUDII | .022 | .022 | .000 | .000 | .000 | .000 | .000 | .000 | .773 |
| EUPHAUSIACEA | .121 | 1.132 | .108 | .037 | .043 | .000 | .000 | .000 | 21.283 |
| MEGANYCTIPHANES NORVEGICA | .044 | .000 | .000 | .000 | .011 | .000 | .000 | .000 | .988 |
| THYSANOESSA INERMIS | .000 | 1.132 | .108 | .000 | .033 | .000 | .000 | .000 | 18.386 |
| THYSANOESSA LONGICAUDATA | .077 | .000 | .000 | .037 | .000 | .000 | .000 | .000 | 1.909 |
| CHAETOGNATHA | .615 | 2.675 | 1.529 | 2.000 | 1.207 | .367 | .236 | .149 | 107.304 |
| EUKHRONIA HAMATA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .025 | .248 |
| SAGITTA ELEGANS | .582 | 2.675 | 1.529 | 2.000 | 1.207 | .306 | .236 | .124 | 105.784 |
| UNIDENTIFIED CHAETOGNATH | .033 | .000 | .000 | .000 | .000 | .061 | .000 | .000 | 1.271 |
| UNIDENTIFIED | .000 | .000 | .000 | .000 | .011 | .031 | .000 | .000 | .415 |

| TOW 14 21/09/85 2130H | 45 09.66 N | 59 25.78 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 65.0 | 50.0 | 45.0 | 40.0 | 35.0 | 30.0 | 25.0 | 20.0 | 10.0 | |
| DEPTH2 (M) | 50.0 | 45.0 | 40.0 | 35.0 | 30.0 | 25.0 | 20.0 | 15.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 111. | 46. | 46. | 41. | 50. | 26. | 31. | 33. | 73. | |
| TOTAL BIOMASS (G/M3) | .173 | .183 | .078 | .052 | .090 | .333 | .367 | .518 | .506 | 15.764 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .001 | .000 | .001 | .002 | .019 | .003 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMACINA HELICOIDES | .00 | .00 | 5.26 | 5.20 | 7.42 | 6.11 | 6.97 | .00 | 420.82 | 4363.05 |
| LIMACINA LESUEURII | 1.15 | 5.59 | 1.75 | .00 | 2.12 | 3.05 | 6.97 | .00 | 350.68 | 3621.59 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | 2.12 | .00 | .00 | .00 | 175.34 | 1764.03 |
| BIVALVE LARVAE | .00 | .00 | .00 | .00 | 2.12 | .00 | .00 | 12.93 | 52.60 | 601.28 |
| EVADNE SP. | .00 | .00 | 1.75 | .00 | 1.06 | .00 | .00 | .00 | .00 | 14.07 |
| EVADNE NORDMANNI | .00 | .00 | 1.75 | .00 | 2.12 | .00 | .00 | .00 | 227.95 | 2298.83 |
| EVADNE SPINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 70.14 | 701.37 |
| PODON LEUCKARTI | .00 | 1.40 | 3.51 | .65 | .00 | 3.05 | .00 | .00 | 298.08 | 3023.87 |
| CALANUS FINMARCHICUS-TOTAL | 138.38 | 152.31 | 78.95 | 35.77 | 39.23 | 207.63 | 303.27 | 782.22 | 1174.79 | 21820.57 |
| CALANUS FINMARCHICUS (D) | 2.31 | .00 | .00 | .65 | .00 | 24.43 | 6.97 | .00 | .00 | 194.84 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .65 | 1.06 | 12.21 | 3.49 | 6.46 | .00 | 119.37 |
| CALANUS FINMARCHICUS (S) | .00 | 1.40 | 1.75 | .00 | 5.30 | .00 | .00 | .00 | .00 | 42.27 |
| CALANUS FINMARCHICUS VIF | 2.31 | 1.40 | 1.75 | 1.30 | 6.36 | 36.64 | 10.46 | 6.46 | .00 | 356.48 |
| CALANUS FINMARCHICUS V | 71.50 | 68.47 | 29.82 | 22.11 | 11.66 | 91.60 | 156.86 | 155.15 | 280.55 | 6556.37 |
| CALANUS FINMARCHICUS IV | 64.58 | 76.86 | 19.30 | 5.20 | 8.48 | 54.96 | 111.55 | 213.33 | 508.49 | 8501.99 |
| CALANUS FINMARCHICUS III | .00 | 5.59 | 8.77 | 2.60 | 6.36 | 21.37 | 13.94 | 213.33 | 227.95 | 3639.33 |
| CALANUS FINMARCHICUS II | .00 | .00 | 17.54 | 3.90 | 5.30 | 3.05 | 10.46 | 161.62 | 87.67 | 1886.09 |
| CALANUS FINMARCHICUS I | .00 | .00 | 1.75 | .65 | 1.06 | .00 | .00 | 32.32 | 70.14 | 880.31 |
| CALANUS GLACIALIS V | 2.31 | 1.40 | .00 | .00 | 1.06 | 3.05 | .00 | .00 | .00 | 62.15 |
| CALANUS GLACIALIS IV | 16.14 | 4.19 | 1.75 | .00 | .00 | .00 | .00 | .00 | .00 | 271.89 |
| CALANUS GLACIALIS III | .00 | 1.40 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.99 |
| CALANUS HYPERBOREUS-TOTAL | 11.53 | 18.17 | 5.26 | .00 | .00 | .00 | .00 | .00 | .00 | 290.12 |
| CALANUS HYPERBOREUS IV | 9.23 | 11.18 | 3.51 | .00 | .00 | .00 | .00 | .00 | .00 | 211.82 |
| CENTROPAGES TYPICUS | .00 | .00 | 3.51 | .65 | 1.06 | 3.05 | .00 | 6.46 | 35.07 | 424.37 |
| METRIDIA LONGA | 2.31 | 4.19 | .00 | .65 | 6.36 | 33.59 | 10.46 | .00 | .00 | 310.84 |
| METRIDIA LUCENS | 11.53 | 22.36 | 19.30 | 3.90 | 3.18 | 12.21 | 10.46 | 45.25 | 52.60 | 1282.32 |
| OITHONA ATLANTICA | .00 | 4.19 | 1.75 | 1.95 | .00 | .00 | .00 | 6.46 | .00 | 71.81 |
| OITHONA SIMILIS | .00 | 2.79 | 31.58 | .00 | 1.06 | .00 | 3.49 | 19.39 | 52.60 | 817.60 |
| PSEUDOCALANUS MINUTUS | 101.48 | 146.72 | 321.05 | 94.31 | 142.08 | 406.11 | 610.02 | 652.93 | 1928.77 | 32675.96 |
| TEMORA LONGICORNIS | 1.15 | 1.40 | 7.02 | 1.95 | 9.54 | 12.21 | 66.23 | 252.12 | 263.01 | 4399.81 |
| UNID/DAM/EXO COPEPOD | 41.51 | 78.25 | 133.33 | 29.27 | 57.26 | 131.30 | 163.83 | 116.36 | 157.81 | 5748.82 |
| UNIDENTIFIED HARPACTICOID | 1.15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 17.30 |
| THYSANOESSA RASCHII FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 19.39 | .00 | 96.97 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.46 | .00 | 32.32 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | 3.05 | .00 | .00 | .00 | 15.27 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.46 | .00 | 32.32 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 35.07 | 350.68 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.46 | .00 | 32.32 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 17.53 | 175.34 |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | 6.36 | 18.32 | .00 | 12.93 | .00 | 188.06 |
| OIKOPLEURA VANHOEFFENI | .00 | .00 | .00 | .00 | .00 | .00 | 6.97 | .00 | .00 | 34.86 |
| DAMAGED APPENDICULARIA | .00 | 6.99 | 5.26 | .65 | .00 | 12.21 | 31.37 | 12.93 | 17.53 | 522.42 |

## LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .152 | .000 | .758 |
| AMPHIPODA | .000 | .000 | .000 | .000 | .000 | .000 | .033 | .000 | .000 | .163 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .000 | .000 | .000 | .033 | .000 | .000 | .163 |
| CUMACEAN | .009 | .022 | .000 | .024 | .000 | .000 | .000 | .000 | .000 | .366 |
| MYSIDACEA | .036 | .066 | .000 | .000 | .040 | .115 | .033 | .000 | .014 | 1.940 |
| BOREOMYSIS SP. | .036 | .066 | .000 | .000 | .040 | .115 | .033 | .000 | .014 | 1.940 |
| EUPHAUSIACEA | .000 | .066 | .000 | .098 | .298 | 2.710 | .523 | .030 | .014 | 18.759 |
| MEGANYCTIPHANES NORVEGICA | .000 | .022 | .000 | .000 | .000 | .038 | .000 | .030 | .000 | .452 |
| THYSANOESSA INERMIS | .000 | .044 | .000 | .098 | .298 | 2.519 | .359 | .000 | .014 | 16.727 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .000 | .000 | .153 | .163 | .000 | .000 | 1.580 |
| DECAPODA | .000 | .000 | .000 | .000 | .040 | .000 | .000 | .000 | .000 | .199 |
| PANDALUS MONTAQUI | .000 | .000 | .000 | .000 | .040 | .000 | .000 | .000 | .000 | .199 |
| CHAETOGNATHA | .045 | .240 | .132 | .171 | .517 | 1.832 | 1.569 | .818 | .041 | 27.478 |
| SAGITTA ELEGANS | .027 | .197 | .132 | .171 | .517 | 1.832 | 1.569 | .818 | .041 | 26.989 |
| UNIDENTIFIED CHAETOGNATH | .018 | .044 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .489 |

| TOW 15 22/09/85 0830H | 44 50.47 N 59 12.14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 75.0 | 70.0 | 60.0 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 | |
| DEPTH2 (M) | 70.0 | 60.0 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 370. | 418. | 504. | 563. | 608. | 648. | 42. | 32. | |
| TOTAL BIOMASS (G/M3) | .012 | .007 | .007 | .006 | .023 | .014 | .171 | .286 | 5.187 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .00 | .00 | 3.81 | .00 | 38.10 |
| LIMACINA HELICOIDES | .36 | .14 | .19 | .09 | .18 | .00 | .00 | 30.09 | 308.78 |
| LIMACINA LESUEURII | .00 | .05 | .06 | .05 | .18 | .25 | 259.05 | .00 | 2596.29 |
| LIMACINA TROCHIFORMIS | .22 | .00 | .06 | .00 | .35 | .25 | 22.86 | .00 | 236.27 |
| BIVALVE LARVAE | .00 | .00 | .00 | .00 | .18 | .25 | .00 | .00 | 4.22 |
| EVADNE NORDMANNI | .07 | .05 | .13 | .05 | .35 | .00 | 11.43 | 100.31 | 1123.51 |
| EVADNE SPINIFERA | .07 | .00 | .00 | .14 | .18 | .00 | .00 | 10.03 | 103.85 |
| PODON LEUCKARTI | .00 | .00 | .25 | .09 | .18 | .25 | 3.81 | 190.60 | 1951.76 |
| DAMAGED CLADOCERA | .00 | .00 | .00 | .00 | .00 | .00 | 3.81 | .00 | 38.10 |
| CALANUS FINMARCHICUS-TOTAL | 9.44 | 6.22 | 8.70 | 7.67 | 28.42 | 33.09 | 640.00 | 1715.36 | 24441.80 |
| CALANUS FINMARCHICUS (D) | .00 | .10 | .32 | .38 | 1.40 | .49 | .00 | 10.03 | 127.21 |
| CALANUS FINMARCHICUS (G) | .00 | .05 | .06 | .00 | 1.23 | .25 | .00 | .00 | 15.86 |
| CALANUS FINMARCHICUS (S) | .14 | .05 | .19 | .05 | .00 | .99 | 3.81 | .00 | 51.55 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .19 | .00 | .18 | .99 | .00 | .00 | 13.54 |
| CALANUS FINMARCHICUS VIF | .14 | .19 | .57 | .43 | 2.63 | 1.73 | 3.81 | 10.03 | 194.62 |
| CALANUS FINMARCHICUS V | 5.55 | 2.73 | 3.81 | 3.79 | 17.54 | 8.40 | 38.10 | 60.19 | 1373.23 |
| CALANUS FINMARCHICUS IV | 2.09 | 1.00 | 1.52 | 1.37 | 4.74 | 11.60 | 118.10 | 571.79 | 7111.71 |
| CALANUS FINMARCHICUS III | .79 | .96 | 1.59 | 1.18 | 2.46 | 6.91 | 285.71 | 812.54 | 11117.48 |
| CALANUS FINMARCHICUS II | .58 | .96 | .95 | .81 | .88 | 2.72 | 179.05 | 230.72 | 4163.65 |
| CALANUS FINMARCHICUS I | .29 | .38 | .06 | .09 | .00 | .74 | 15.24 | 30.09 | 467.58 |
| CALANUS GLACIALIS V | .29 | .05 | .00 | .09 | .00 | .00 | .00 | .00 | 2.87 |
| CALANUS GLACIALIS IV | .43 | .10 | .06 | .00 | .00 | .00 | .00 | .00 | 3.75 |
| CALANUS HYPERBOREUS-TOTAL | 1.01 | .14 | .19 | .19 | .00 | .00 | .00 | .00 | 10.28 |
| CALANUS HYPERBOREUS IV | .79 | .10 | .13 | .14 | .00 | .00 | .00 | .00 | 7.61 |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .05 | .00 | .00 | 3.81 | 20.06 | 239.20 |
| METRIDIA LONGA | .14 | .10 | .00 | .19 | .00 | .00 | .00 | .00 | 3.57 |
| METRIDIA LUCENS | .22 | .72 | .89 | .76 | 1.40 | .25 | 34.29 | .00 | 384.09 |
| OITHONA ATLANTICA | .00 | .05 | .06 | .00 | .18 | .00 | 11.43 | 40.13 | 518.41 |
| OITHONA SIMILIS | .22 | .43 | .06 | .00 | .18 | .00 | .00 | 70.22 | 709.97 |
| PSEUDOCALANUS MINUTUS | 3.60 | 2.44 | 4.76 | 2.98 | 7.72 | 53.83 | 247.62 | 993.10 | 13142.57 |
| TEMORA LONGICORNIS | .29 | .24 | .32 | .05 | .53 | 3.21 | 49.52 | 40.13 | 941.34 |
| UNID/DAM/EXO COPEPOD | 9.80 | 8.71 | 6.29 | 4.55 | 6.49 | 16.30 | 255.24 | 461.44 | 7639.09 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .18 | .00 | .00 | .00 | 1.75 |
| THYSANOESSA RASCHII FURCILIA | .14 | .00 | .00 | .05 | .00 | .25 | .00 | .00 | 3.66 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | 19.05 | 10.03 | 290.79 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | .63 |
| EUPHAUSIID EGGS | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | .63 |
| DAMAGED FURCILIAE | .22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.08 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .18 | .00 | 38.10 | 20.06 | 583.33 |
| EUKRONIA HAMATUS | .00 | .00 | .00 | .05 | .18 | .00 | .00 | .00 | 2.23 |
| DAMAGED CHAETOGNATH | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .48 |
| DAMAGED APPENDICULARIA | .00 | .05 | .06 | .00 | .35 | .49 | .00 | .00 | 9.56 |

L A R G E  M E S O Z O O P L A N K T O N  &  I C H T H Y O P L A N K T O N

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CTENOPHORA | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .014 |
| EUPHAUSIACEA | .000 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .024 |
| THYSANOESSA INERMIS | .000 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .024 |
| CHAETOGNATHA | .024 | .005 | .006 | .005 | .007 | .002 | .000 | .000 | .363 |
| SAGITTA ELEGANS | .019 | .005 | .002 | .002 | .007 | .002 | .000 | .000 | .261 |
| UNIDENTIFIED CHAETOGNATH | .005 | .000 | .004 | .004 | .000 | .000 | .000 | .000 | .102 |
| PICES | .000 | .000 | .002 | .000 | .000 | .002 | .024 | .000 | .273 |
| MERLUCCIUS BILINEARIS | .000 | .000 | .000 | .000 | .000 | .002 | .000 | .000 | .015 |
| PARALICHTHYS SP. | .000 | .000 | .002 | .000 | .000 | .000 | .000 | .000 | .020 |
| UROPHYCIS CHUSS | .000 | .000 | .000 | .000 | .000 | .000 | .024 | .000 | .238 |

| TOW 19 23/09/85 2245H 44 13.68 N 58 46.20 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 50.0 | 45.0 | 40.0 | 35.0 | 30.0 | 25.0 | 20.0 | 15.0 | 10.0 | |
| DEPTH2 (M) | 45.0 | 40.0 | 35.0 | 30.0 | 25.0 | 20.0 | 15.0 | 10.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 43. | 20. | 27. | 18. | 19. | 19. | 18. | 15. | 28. | |
| TOTAL BIOMASS (G/M3) | .016 | .027 | .020 | .035 | .064 | .065 | .070 | .082 | .049 | 2.385 |
| EUPHAUSIACEA BIOMASS (G/M3) | .002 | .010 | .000 | .014 | .035 | .028 | .029 | .039 | .009 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMACINA BULIMOIDES | .12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .58 |
| LIMACINA INFLATA | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .85 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .44 | .00 | 2.21 |
| GYMNOSOMATA | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .85 |
| EVADNE SPINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.32 | .00 | 6.62 |
| CONCHOECIA CURTA | .00 | .00 | .00 | .19 | .00 | .00 | .00 | .00 | .00 | .95 |
| CONCHOECIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .44 | .00 | 2.21 |
| ACARTIA CLAUSI | .00 | .00 | .00 | .19 | .00 | .00 | .00 | .44 | .00 | 3.15 |
| ACARTIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .96 | 9.63 |
| CALANUS FINMARCHICUS-TOTAL | 1.05 | 1.37 | 2.23 | 2.27 | 4.81 | 4.43 | 23.48 | 34.44 | 135.74 | 1727.82 |
| CALANUS FINMARCHICUS (D) | .00 | .17 | .00 | .00 | .30 | .00 | 1.14 | .88 | .00 | 12.46 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .30 | .00 | 6.44 | 4.86 | 7.70 | 135.00 |
| CALANUS FINMARCHICUS (S) | .00 | .00 | .25 | .19 | .00 | .00 | .00 | .44 | .00 | 4.39 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .00 | .76 | 1.32 | .96 | 20.04 |
| CALANUS FINMARCHICUS VIF | .00 | .17 | .25 | .19 | .60 | .00 | 7.58 | 6.18 | 7.70 | 151.85 |
| CALANUS FINMARCHICUS V | .58 | .34 | .50 | 1.33 | 2.26 | 3.19 | 7.58 | 6.62 | 10.59 | 217.85 |
| CALANUS FINMARCHICUS IV | .35 | .17 | .00 | .00 | .60 | .89 | 2.65 | 3.97 | 10.59 | 149.06 |
| CALANUS FINMARCHICUS III | .00 | .17 | .25 | .00 | .00 | .00 | 3.41 | 4.86 | 11.55 | 158.95 |
| CALANUS FINMARCHICUS II | .12 | .17 | .00 | .19 | .45 | .18 | .76 | 3.97 | 37.55 | 404.63 |
| CALANUS FINMARCHICUS I | .00 | .34 | .00 | .57 | .90 | .18 | .76 | 7.51 | 56.80 | 619.25 |
| CALANUS GLACIALIS V | .00 | .00 | .25 | .00 | .00 | .18 | .00 | .00 | .00 | 2.13 |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | .75 |
| CALANUS GLACIALIS III | .12 | .00 | .00 | .00 | .00 | .00 | .38 | .00 | .00 | 2.48 |
| CALANUS HYPERBOREUS-TOTAL | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | 1.24 |
| CALANUS HYPERBOREUS V | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | 1.24 |
| CALANUS MINOR | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .44 | .00 | 3.45 |
| CALOCALANUS PAVO | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .44 | 1.93 | 21.46 |
| CENTROPAGES TYPICUS | .00 | .17 | .00 | .00 | .15 | .00 | .00 | .44 | 2.89 | 32.69 |
| CLAUSOCALANUS ARCUICORNIS | .35 | 1.20 | .50 | .57 | 1.50 | 5.50 | 6.44 | 8.39 | 22.14 | 343.61 |
| CLAUSOCALANUS FURCATUS | 1.74 | 1.88 | 1.98 | .57 | .30 | 1.95 | 9.47 | 20.75 | 93.38 | 1127.05 |
| CONAEA RAPAX | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | 1.93 | 20.49 |
| EUCHEATA NORVEGICA | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | 1.24 |
| EUCHEATA SP. | .12 | .34 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.29 |
| GAIDIUS TENUISPINUS | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | 1.24 |
| MECYNOCERA CLAUSI | .00 | .00 | .00 | .19 | .00 | .00 | .00 | .00 | .00 | .95 |
| METRIDIA LUCENS | .70 | .34 | 1.73 | .57 | .15 | .18 | .38 | 1.77 | 1.93 | 48.33 |
| OITHONA ATLANTICA | .35 | .68 | .74 | .57 | .00 | 1.42 | .00 | 1.32 | .00 | 25.44 |
| OITHONA SIMILIS | .23 | 4.62 | 29.74 | 3.03 | .90 | .18 | 9.09 | 19.87 | 123.23 | 1570.53 |
| ONCAEA SP. | .12 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.44 |
| PARACALANUS PARVUS | .00 | .51 | .00 | .38 | .45 | .35 | .00 | .00 | 1.93 | 27.74 |
| PLEUROMAMMA ABDOMINALIS | .00 | .00 | .00 | .00 | .00 | .00 | .38 | .00 | .00 | 1.89 |
| PLEUROMAMMA BOREALIS | .23 | 1.37 | .00 | .00 | .00 | .00 | .00 | .44 | .00 | 10.21 |
| PLEUROMAMMA ROBUSTA | .23 | .17 | .00 | .00 | .15 | .18 | .00 | .44 | .00 | 5.86 |
| PLEUROMAMMA SP. | .00 | .34 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.71 |
| PLEUROMAMMA XIPHIAS | .00 | .00 | .00 | .00 | .00 | .00 | .38 | .44 | .00 | 4.10 |
| PSEUDOCALANUS MINUTUS | 17.44 | 20.68 | 39.41 | 17.99 | 16.99 | 17.73 | 21.97 | 18.54 | 44.28 | 1296.63 |
| SCOLECITHRICELLA MINOR | .12 | .51 | .00 | .00 | .00 | .18 | .38 | .00 | .00 | 5.93 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .18 | .38 | .44 | 1.93 | 24.24 |
| UNID/DAM/EXO COPEPOD | 6.16 | 17.78 | 8.18 | 8.71 | 6.02 | 12.06 | 10.98 | 24.28 | 52.95 | 1000.33 |
| UNIDENTIFIED HARPACTICOID | .23 | .00 | .00 | .19 | .00 | .18 | .00 | .00 | .00 | 3.00 |
| COPEPOD NAUPLII | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | .96 | 10.48 |
| PARATHEMISTO SP. | .35 | .17 | .00 | .19 | .15 | .53 | .00 | .44 | .00 | 9.16 |
| CIRREPEDIA NAUPLIUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .96 | 9.63 |
| CUMACEAN | .12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .58 |
| M. NORVEGICA CALYPTOSIS | .12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .58 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .18 | .00 | .00 | .00 | .89 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .44 | .96 | 11.83 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .18 | .00 | .00 | .00 | .89 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .96 | 9.63 |
| THYSANOESSA SP. CALYPTOSIS | .12 | 1.20 | .50 | .00 | .15 | .00 | .00 | .00 | .00 | 9.79 |
| EUPHAUSIID EGGS | 3.26 | 4.44 | 3.97 | 9.09 | 2.56 | 1.42 | 5.30 | 4.86 | 4.81 | 222.59 |
| EUPHAUSIID NAUPLII | .00 | 1.54 | 6.44 | 1.52 | 1.50 | .35 | 2.27 | 3.09 | 11.55 | 199.12 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .19 | .15 | .00 | .00 | .00 | .00 | 1.70 |
| DAMAGED CHAETOGNATH | .00 | .00 | .00 | .19 | .00 | .00 | .00 | .00 | .00 | .95 |
| OIKOPLEURA SP. | .00 | .00 | .74 | .00 | .00 | .00 | .00 | .00 | .00 | 3.72 |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | .75 |

TOW 19 23/09/85 2245H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | |
| AMPHIPODA | .093 | .000 | .000 | .057 | .105 | .160 | .057 | .000 | .000 | 2.357 |
| PARATHEMISTO GAUDICHAUDII | .093 | .000 | .000 | .057 | .105 | .160 | .057 | .000 | .000 | 2.357 |
| MYSIDACEA | .000 | .051 | .037 | .000 | .053 | .053 | .114 | .265 | .108 | 3.947 |
| BOREOMYSIS SP. | .000 | .051 | .037 | .000 | .053 | .053 | .114 | .265 | .108 | 3.947 |
| EUPHAUSIACEA | .047 | .410 | .037 | .341 | .263 | .213 | .284 | .199 | .036 | 9.329 |
| EUPHAUSIA KROHNII | .000 | .154 | .000 | .057 | .000 | .053 | .000 | .000 | .000 | 1.319 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .000 | .057 | .105 | .106 | .114 | .132 | .036 | 2.934 |
| NEMATOSCELIS MEGALOPS | .047 | .256 | .000 | .057 | .000 | .053 | .000 | .000 | .000 | 2.065 |
| THYSANOESSA INERMIS | .000 | .000 | .037 | .057 | .158 | .000 | .057 | .000 | .000 | 1.544 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .000 | .000 | .000 | .114 | .066 | .000 | .899 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .114 | .000 | .000 | .000 | .000 | .000 | .568 |
| CHAETOGNATHA | .209 | .513 | .483 | .341 | .000 | .000 | .057 | .066 | .000 | 8.347 |
| EUKHRONIA HAMATA | .023 | .000 | .037 | .000 | .000 | .000 | .000 | .000 | .000 | .302 |
| SAGITTA ELEGANS | .116 | .359 | .372 | .341 | .000 | .000 | .000 | .066 | .000 | 6.271 |
| UNIDENTIFIED CHAETOGNATH | .070 | .154 | .074 | .000 | .000 | .000 | .057 | .000 | .000 | 1.774 |

| TOW 18 23/09/85 1945H | 43 56.86 N | 58 36.69 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 450.0 | 400.0 | 350.0 | 300.0 | 250.0 | 200.0 | 150.0 | 100.0 | 50.0 | |
| DEPTH2 (M) | 400.0 | 350.0 | 300.0 | 250.0 | 200.0 | 150.0 | 100.0 | 50.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 168. | 177. | 185. | 190. | 196. | 217. | 209. | 170. | 139. | |
| TOTAL BIOMASS (G/M3) | .060 | .050 | .027 | .013 | .032 | .023 | .029 | .035 | .062 | 16.597 |
| EUPHAUSIACEA BIOMASS (G/M3) | .001 | .016 | .002 | .003 | .005 | .010 | .012 | .020 | .026 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| SIPHONOPHORA | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .48 |
| LIMACINA INFLATA | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .38 | 20.24 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .96 |
| LIMACINA RETROVERSA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 1.97 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .38 | 21.59 |
| GYMNOSOMATA | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .04 | .38 | 22.20 |
| CONCHOECIA AMETRA | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.26 |
| CONCHOECIA BISPINOSA | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.38 |
| CONCHOECIA CURTA | .00 | .00 | .14 | .02 | .10 | .59 | .10 | .04 | .38 | 68.80 |
| CONCHOECIA ELEGANS | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | 1.05 |
| CONCHOECIA SP. | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | 2.40 |
| ACARTIA CLAUSI | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.53 | 76.74 |
| ACARTIA DANAE | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 1.92 | 97.36 |
| ACARTIA LONGIREMIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .38 | 19.18 |
| ACARTIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .38 | 19.18 |
| AETIDEUS ARMATUS | .00 | .20 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | 13.45 |
| CALANUS FINMARCHICUS-TOTAL | 4.24 | .40 | 3.32 | .11 | .07 | .07 | .09 | .16 | .38 | 441.47 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .10 | .04 | .00 | .00 | .01 | .00 | .00 | 7.39 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .03 | .07 | .03 | .00 | .38 | 26.01 |
| CALANUS FINMARCHICUS (S) | .05 | .03 | .14 | .00 | .00 | .00 | .02 | .04 | .00 | 13.77 |
| CALANUS FINMARCHICUS VIM | .00 | .03 | .00 | .00 | .00 | .00 | .02 | .00 | .00 | 2.21 |
| CALANUS FINMARCHICUS VIF | .05 | .03 | .24 | .04 | .03 | .07 | .06 | .04 | .38 | 47.17 |
| CALANUS FINMARCHICUS V | 3.52 | .18 | 3.08 | .04 | .03 | .00 | .01 | .08 | .00 | 346.95 |
| CALANUS FINMARCHICUS IV | .67 | .18 | .00 | .02 | .00 | .00 | .00 | .04 | .00 | 45.14 |
| CALANUS GLACIALIS V | .00 | .00 | .43 | .00 | .00 | .00 | .00 | .00 | .00 | 21.62 |
| CALANUS GLACIALIS IV | .19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 9.52 |
| CALANUS HYPERBOREUS-TOTAL | .10 | .00 | .24 | .00 | .00 | .00 | .00 | .00 | .00 | 16.77 |
| CALANUS HYPERBOREUS (S) | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.38 |
| CALANUS HYPERBOREUS VIF | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.38 |
| CALANUS HYPERBOREUS V | .00 | .00 | .19 | .00 | .00 | .00 | .00 | .00 | .00 | 9.61 |
| CALANUS HYPERBOREUS IV | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | 4.78 |
| CALANUS SP. | .62 | 1.31 | 3.03 | .13 | .00 | .00 | .00 | .00 | .00 | 253.91 |
| CALANUS MINOR | .00 | .03 | .00 | .02 | .00 | .00 | .01 | .00 | 2.69 | 137.08 |
| CALOCALANUS PAVO | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .48 |
| CALOCALANUS PLUMULOSUS | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .48 |
| CHIRIDIUS GRACILIS | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .31 | .00 | 16.98 |
| CLAUSOCALANUS ARCUICORNIS | .10 | .10 | .14 | .04 | .20 | .22 | .08 | 1.30 | 21.10 | 1164.21 |
| CLAUSOCALANUS FURCATUS | .29 | .88 | 1.92 | .78 | 1.67 | 2.36 | .43 | .00 | 49.11 | 2871.80 |
| EUCHEATA NORVEGICA | .14 | .20 | .24 | .21 | .37 | .18 | .03 | .00 | .00 | 69.09 |
| EUCHEATA SP. | .38 | .35 | .05 | .48 | .65 | .15 | .00 | .00 | .00 | 102.92 |
| EUCHIRELLA SP. | .00 | .00 | .00 | .00 | .00 | .04 | .01 | .00 | .00 | 2.32 |
| GAIDIUS SP | .00 | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | 4.80 |
| GAIDIUS TENUISPINUS | .10 | .00 | .00 | .00 | .03 | .07 | .00 | .00 | .00 | 10.15 |
| MECYNOCERA CLAUSI | .00 | .00 | .05 | .00 | .07 | .04 | .01 | .08 | 1.53 | 88.80 |
| METRIDIA LONGA | .38 | .13 | .10 | .11 | .14 | .00 | .00 | .00 | .00 | 42.20 |
| METRIDIA LUCENS | 2.90 | 1.36 | .67 | .40 | .51 | .59 | .54 | 1.89 | .77 | 481.24 |
| OITHONA ATLANTICA | .33 | .05 | .19 | .15 | .17 | .41 | .44 | .59 | .00 | 116.48 |
| OITHONA SIMILIS | .05 | .03 | .19 | .04 | .00 | .00 | .00 | .04 | .38 | 36.50 |
| OITHONA SP. | .00 | .03 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| ONCAEA SP. | .00 | .00 | .05 | .00 | .07 | .00 | .00 | .00 | .00 | 5.80 |
| PARACALANUS PARVUS | .00 | .00 | .43 | .06 | .27 | .48 | .10 | .20 | 4.60 | 307.19 |
| PLEUROMAMMA ABDOMINALIS | .00 | .00 | .05 | .00 | .03 | .07 | .03 | .08 | .00 | 13.16 |
| PLEUROMAMMA BOREALIS | .00 | .15 | .48 | 1.73 | 1.26 | 1.33 | .69 | 2.87 | 4.99 | 674.57 |
| PLEUROMAMMA GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .04 | .00 | 2.45 |
| PLEUROMAMMA ROBUSTA | .19 | .18 | .14 | .29 | .71 | .44 | .18 | .20 | .00 | 117.03 |
| PLEUROMAMMA SP. | .05 | .03 | .10 | .11 | .24 | .37 | .22 | .43 | .77 | 115.06 |
| PLEUROMAMMA XIPHIAS | .00 | .00 | .00 | .02 | .00 | .00 | .03 | .00 | .38 | 21.68 |
| RHINCALANUS CORNUTUS | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | 4.78 |
| RHINCALANUS NASUTUS | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | 1.70 |
| SCOLECITHRICELLA MINOR | .48 | .35 | .19 | .55 | 1.09 | 2.40 | .30 | .20 | .00 | 277.30 |
| SCOLECITHRICELLA ABYSALLIS | .00 | .00 | .00 | .00 | .03 | .00 | .01 | .00 | .00 | 2.18 |
| SCOTTOCALANUS PERSECANS | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.44 |
| SPINOCALANUS ABYSALLIS | .57 | .43 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 49.91 |
| SPINOCALANUS SP. | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | 1.05 |
| UNDEUCHEATA MAJOR | .00 | .00 | .00 | .08 | .10 | .04 | .00 | .00 | .00 | 11.16 |
| UNDEUCHEATA PLUMOSA | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | .38 | 21.03 |
| UNDEUCHAETA SP. | .00 | .00 | .00 | .00 | .00 | .07 | .07 | .16 | .77 | 53.27 |

TOW 18 23/09/85 1945H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| UNID/DAM/EXO COPEPOD | 3.10 | 2.61 | 5.24 | 1.83 | 2.11 | 3.94 | 1.51 | 2.04 | 10.74 | 1656.12 |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .00 | 2.11 |
| PARATHEMISTO SP. | 1.19 | .25 | .00 | .02 | .61 | .15 | .01 | .04 | 1.15 | 171.12 |
| MYSID | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | 1.05 |
| THYSANOESSA INERMIS FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .96 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .48 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .77 | 40.07 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .38 | 19.66 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 1.97 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .00 | .03 | .04 | .00 | .00 | .00 | 3.54 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .77 | 38.85 |
| SAGITTA ELEGANS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .77 | 38.37 |
| EUKRONIA HAMATUS | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.26 |
| DAMAGED CHAETOGNATH | .00 | .00 | .05 | .00 | .03 | .00 | .01 | .00 | .38 | 23.77 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | |
| AMPHIPODA | .411 | .085 | .049 | .047 | .031 | .018 | .038 | .012 | .007 | 34.894 |
| PARATHEMISTO GAUDICHAUDII | .411 | .085 | .049 | .047 | .031 | .018 | .038 | .012 | .000 | 34.534 |
| UNIDENTIFIED AMPHIPOD | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .007 | .360 |
| EUPHAUSIACEA | .048 | .463 | .086 | .068 | .122 | .355 | .384 | .613 | 1.050 | 159.518 |
| EUPHAUSIA KROHNII | .018 | .119 | .032 | .016 | .010 | .005 | .000 | .147 | .647 | 49.721 |
| MEGANYCTIPHANES NORVEGICA | .000 | .006 | .000 | .005 | .005 | .000 | .014 | .035 | .029 | 4.728 |
| NEMATOSCELIS MEGALOPS | .006 | .328 | .038 | .037 | .097 | .276 | .249 | .224 | .281 | 76.789 |
| THYSANOESSA LONGICAUDATA | .000 | .011 | .011 | .000 | .010 | .060 | .120 | .183 | .079 | 23.702 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .024 | .000 | .005 | .011 | .000 | .014 | .000 | .018 | .014 | 4.282 |
| THYSANOESSA SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .006 | .000 | .295 |
| DECAPODA | .030 | .028 | .005 | .000 | .015 | .005 | .014 | .035 | .029 | 8.094 |
| ACANTHYPHYRA SP. | .006 | .006 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .835 |
| SERGESTES SP. | .018 | .023 | .005 | .000 | .010 | .005 | .014 | .035 | .022 | 6.601 |
| UNIDENTIFIED DECAPOD | .006 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .007 | .657 |
| CHAETOGNATHA | .018 | .045 | .049 | .021 | .010 | .005 | .000 | .000 | 1.367 | 75.724 |
| EUKHRONIA HAMATA | .000 | .028 | .043 | .021 | .005 | .000 | .000 | .000 | .000 | 4.882 |
| SAGITTA ELEGANS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.367 | 68.345 |
| SAGITTA MAXIMA | .000 | .017 | .005 | .000 | .005 | .005 | .000 | .000 | .000 | 1.603 |
| SAGITTA ZETOSIS | .018 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .893 |
| SALPA MAXIMA | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .094 | 4.676 |
| PICES | .006 | .006 | .032 | .005 | .000 | .023 | .010 | .006 | .029 | 5.830 |
| BENTHOSEMA GLACIALE | .000 | .006 | .000 | .000 | .000 | .009 | .005 | .006 | .029 | 2.717 |
| CYCLOTHONE SP. | .000 | .000 | .022 | .000 | .000 | .000 | .000 | .000 | .000 | 1.081 |
| LAMPANYCTUS SP. | .000 | .000 | .005 | .000 | .000 | .000 | .005 | .000 | .000 | .510 |
| IMMATURE MYCTOPHID | .000 | .000 | .005 | .005 | .000 | .000 | .000 | .000 | .000 | .533 |
| STEMONOSUDIS SP. | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .230 |
| VINCINGUERRIA SP. | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .230 |
| UNIDENTIFIED FISH LARVE | .006 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .298 |
| UNIDENTIFIED MYCTOPHID | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .230 |

| TOW 17 23/09/85 1430H | 43 41.32 N 58 22.94 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 800.0 | 700.0 | 600.0 | 500.0 | 450.0 | 400.0 | 350.0 | 300.0 | 250.0 | |
| DEPTH2 (M) | 700.0 | 600.0 | 500.0 | 450.0 | 400.0 | 350.0 | 300.0 | 250.0 | 200.0 | |
| VOLUME OF WATER SAMPLED (M3) | 326. | 414. | 459. | 268. | 285. | 543. | 311. | 196. | 156. | |
| TOTAL BIOMASS (G/M3) | .183 | .182 | .045 | .027 | .024 | .041 | .025 | .069 | .010 | 50.810 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .011 | .004 | .010 | .021 | .015 | .054 | .002 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| SIPHONOPHORA | .03 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 4.01 |
| LIMACINA HELICOIDES | .03 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | 6.24 |
| LIMACINA INFLATA | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | 7.27 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .20 | .00 | 11.49 |
| LIMACINA SP. | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| CONCHOECIA AMETRA | .03 | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | 7.08 |
| CONCHOECIA BISPINOSA | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| CONCHOECIA CURTA | .05 | .00 | .00 | .00 | .00 | .00 | .03 | .14 | .34 | 30.64 |
| CONCHOECIA OBTUSATA | .27 | .58 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 85.24 |
| CONCHOECIA SPINIFERA | .00 | .00 | .00 | .06 | .00 | .10 | .00 | .00 | .00 | 7.90 |
| CONCHOECIA SPINIROSTRIS | .19 | .70 | .00 | .00 | .00 | .29 | .08 | .00 | .00 | 107.25 |
| CONCHOECIA SP. | .11 | .27 | .17 | .06 | .07 | .20 | .03 | .00 | .00 | 72.99 |
| ACARTIA DANAE | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .09 | 5.56 |
| ACARTIA SP. | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 4.91 |
| AETIDEUS ARMATUS | .00 | .00 | .00 | .00 | .04 | 1.47 | .08 | .00 | .00 | 79.28 |
| AMALLOTHRIX ERMARGINATA | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| CALANUS FINMARCHICUS-TOTAL | 1.42 | 2.55 | 7.89 | 9.25 | 3.09 | 1.18 | .36 | .48 | 1.20 | 1963.20 |
| CALANUS FINMARCHICUS (D) | .11 | .12 | .09 | .06 | .04 | .00 | .00 | .00 | .00 | 35.95 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 4.91 |
| CALANUS FINMARCHICUS (S) | .05 | .19 | .39 | .06 | .11 | .20 | .03 | .07 | .09 | 91.03 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .04 | .00 | .00 | .10 | .00 | .00 | .00 | 9.27 |
| CALANUS FINMARCHICUS VIF | .16 | .31 | .48 | .12 | .14 | .29 | .03 | .07 | .09 | 131.89 |
| CALANUS FINMARCHICUS V | 1.25 | 2.13 | 7.19 | 8.90 | 2.74 | .59 | .31 | .34 | 1.11 | 1756.04 |
| CALANUS FINMARCHICUS IV | .00 | .12 | .13 | .24 | .21 | .20 | .03 | .00 | .00 | 58.24 |
| CALANUS FINMARCHICUS II | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .07 | .00 | 7.76 |
| CALANUS GLACIALIS V | .76 | 1.58 | .39 | .48 | .11 | .00 | .05 | .07 | .00 | 309.14 |
| CALANUS GLACIALIS IV | .00 | .00 | .00 | .00 | .04 | .10 | .00 | .00 | .09 | 10.94 |
| CALANUS GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | 4.27 |
| CALANUS HYPERBOREUS-TOTAL | .52 | 1.00 | .22 | .00 | .07 | .00 | .00 | .00 | .09 | 181.86 |
| CALANUS HYPERBOREUS (D) | .03 | .19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 22.05 |
| CALANUS HYPERBOREUS (S) | .08 | .12 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | 24.05 |
| CALANUS HYPERBOREUS VIF | .11 | .31 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | 46.10 |
| CALANUS HYPERBOREUS V | .22 | .46 | .09 | .00 | .04 | .00 | .00 | .07 | .00 | 82.06 |
| CALANUS HYPERBOREUS IV | .19 | .19 | .13 | .00 | .04 | .00 | .00 | .00 | .00 | 53.24 |
| CALANUS SP. | .05 | .19 | 1.35 | 2.03 | 1.19 | .00 | .28 | .48 | .17 | 367.52 |
| CALOCALANUS PAVO | .00 | .00 | .00 | .00 | .04 | .00 | .03 | .00 | .00 | 3.04 |
| CALOCALANUS PLUMULOSUS | .00 | .00 | .00 | .06 | .04 | .00 | .00 | .00 | .00 | 4.74 |
| CENTROPAGES BRADYI | .00 | .00 | .09 | .00 | .00 | .00 | .03 | .00 | .00 | 10.00 |
| CHIRIDIUS GRACILIS | .00 | .00 | .00 | .06 | .00 | .29 | .00 | .07 | .00 | 21.12 |
| CHIRUNDINA STREETSII | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.29 |
| CLAUSOCALANUS ARCUICORNIS | .16 | .00 | .31 | .18 | .25 | 1.08 | .28 | .20 | .00 | 146.49 |
| CLAUSOCALANUS FURCATUS | .00 | .12 | .13 | .18 | .49 | .88 | .31 | .48 | 7.61 | 521.99 |
| EUAUGAPTILUS SP. | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | 4.36 |
| EUCALANUS ATTENUATUS | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | 2.99 |
| EUCHAETA ACUTA | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.29 |
| EUCHEATA NORVEGICA | .93 | 1.12 | .52 | .06 | .04 | .00 | .13 | .00 | .00 | 268.25 |
| EUCHAETA TONSA | .00 | .00 | .00 | .00 | .07 | .10 | .00 | .00 | .00 | 8.42 |
| EUCHEATA SP. | .03 | .00 | .00 | .06 | .14 | 1.77 | .05 | .48 | .43 | 148.88 |
| EUCHIRELLA MESSINENSIS | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| EUCHIRELLA SP. | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 4.91 |
| GAETANUS KRUPPII | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | 2.99 |
| GAETANUS MINOR | .00 | .00 | .00 | .00 | .04 | .29 | .08 | .00 | .00 | 20.35 |
| GAETANUS SP. | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| GAIDIUS SP | .00 | .00 | .00 | .00 | .00 | .39 | .05 | .00 | .00 | 22.22 |
| GAIDIUS TENUISPINUS | .19 | .04 | .13 | .12 | .25 | .00 | .00 | .00 | .00 | 54.27 |
| HALITHALESTRIS OVONI | .00 | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .00 | 1.75 |
| LUBBOCKIA SQUILLIMANA | .00 | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | 2.99 |
| MECYNOCERA CLAUSI | .05 | .00 | .00 | .00 | .04 | .00 | .00 | .07 | .17 | 19.16 |
| METRIDIA BREVICAUDA | .08 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 12.04 |
| METRIDIA LONGA | .03 | .04 | .04 | .24 | .35 | .00 | .03 | .00 | .09 | 45.99 |
| METRIDIA LUCENS | .76 | .58 | .22 | .36 | .88 | 5.11 | .67 | 1.09 | 1.03 | 612.43 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .12 | .00 | .00 | .00 | .00 | .00 | 5.97 |
| OITHONA ATLANTICA | .00 | .04 | .09 | .42 | .04 | .10 | .03 | .00 | .26 | 54.25 |
| OITHONA SIMILIS | .00 | .00 | .09 | .30 | .00 | .00 | .00 | .00 | .00 | 23.64 |
| OITHONA SP. | .00 | .58 | .00 | .00 | .04 | .00 | .00 | .07 | .00 | 63.13 |
| ONCAEA BOREALIS | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .09 | 9.18 |
| ONCAEA CONIFERA | .03 | .12 | .04 | .06 | .00 | .00 | .00 | .07 | .00 | 25.06 |

TOW 17 23/09/85 1430H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| ONCAEA SP. | .30 | .00 | .13 | .00 | .00 | .20 | .00 | .00 | .00 | 52.89 |
| PARACALANUS PARVUS | .00 | .00 | .13 | .00 | .00 | .00 | .03 | .00 | .09 | 18.63 |
| PLEUROMAMMA ABDOMINALIS | .00 | .00 | .00 | .00 | .07 | .59 | .08 | .00 | .00 | 36.84 |
| PLEUROMAMMA BOREALIS | .00 | .08 | .09 | .24 | .25 | .49 | 2.22 | 9.73 | 5.13 | 918.78 |
| PLEUROMAMMA GRACILIS | .00 | .00 | .00 | .00 | .00 | .00 | .13 | .00 | .00 | 6.44 |
| PLEUROMAMMA ROBUSTA | .00 | .04 | .09 | .54 | 2.14 | 2.55 | .03 | .07 | .09 | 283.11 |
| PLEUROMAMMA SP. | .00 | .00 | .09 | .00 | .00 | .00 | .57 | .27 | 1.03 | 101.93 |
| PLEUROMAMMA XIPHIAS | .00 | .00 | .00 | .00 | .18 | .20 | .00 | .00 | .00 | 18.59 |
| PSEUDOCALANUS MINUTUS | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.29 |
| RHINCALANUS CORNUTUS | .03 | .00 | .09 | .12 | .00 | .00 | .05 | .07 | .09 | 27.66 |
| RHINCALANUS NASUTUS | .08 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 12.04 |
| SCAPHOCALANUS MEDIUS | .00 | .00 | .00 | .24 | .00 | .00 | .00 | .00 | .00 | 11.94 |
| SCOLECITHRICELLA MINOR | .03 | .08 | .04 | .18 | .35 | 3.63 | .85 | .20 | .26 | 288.54 |
| SPINOCALANUS ABYSSALLIS | .38 | .73 | .13 | .96 | .00 | .98 | .00 | .00 | .17 | 230.09 |
| SPINOCALANUS SP. | .05 | .04 | .00 | .00 | .00 | .10 | .03 | .00 | .00 | 15.52 |
| UNDEUCHEATA MAJOR | .00 | .00 | .00 | .00 | .11 | .00 | .00 | .00 | .00 | 5.26 |
| UNDEUCHEATA PLUMOSA | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.86 |
| UNDEUCHAETA SP. | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | 4.36 |
| UNID/DAM/EXO COPEPOD | 3.24 | 3.67 | 3.62 | 2.45 | 4.60 | 4.71 | 4.53 | 7.07 | 7.86 | 2614.78 |
| UNIDENTIFIED HARPACTICOID | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | 2.58 |
| COPEPOD NAUPLII | .00 | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | 4.36 |
| AMPHIPODA EGGS | .00 | .00 | .00 | .06 | .04 | .00 | .00 | .00 | .00 | 4.74 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.29 |
| UNIDENTIFIED GAMMARID | .03 | .00 | .00 | .00 | .04 | .00 | .00 | .00 | .00 | 4.48 |
| MYSID | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | 2.58 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | 2.58 |
| UNIDENTIFIED EUPHAUSID | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 4.91 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.29 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .48 | .00 | .00 | .00 | .00 | .00 | 23.88 |
| SAGITTA MAXIMA | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | 8.85 |
| EUKRONIA HAMATUS | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .09 | 5.56 |
| DAMAGED CHAETOGNATH | .05 | .00 | .00 | .06 | .00 | .00 | .03 | .00 | .00 | 9.73 |
| FISH EGGS | .00 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | 8.14 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | |
| DIPHIDAE | .000 | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .460 |
| UNIDENTIFIED SIPHONOPHORE | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .307 |
| PERIPHYLLA | .006 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .613 |
| UNIDENTIFIED MEDUSA | .006 | .005 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | 1.314 |
| AMPHIPODA | .003 | .005 | .026 | .000 | .000 | .000 | .000 | .015 | .000 | 4.170 |
| PARATHEMISTO GAUDICHAUDII | .000 | .002 | .026 | .000 | .000 | .000 | .000 | .015 | .000 | 3.621 |
| UNIDENTIFIED AMPHIPOD | .003 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .548 |
| MYSIDACEA | .021 | .024 | .007 | .000 | .000 | .000 | .000 | .000 | .000 | 5.216 |
| BOREOMYSIS SP. | .015 | .024 | .007 | .000 | .000 | .000 | .000 | .000 | .000 | 4.603 |
| EUCOPIA SP. | .006 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .613 |
| EUPHAUSIACEA | .037 | .017 | .092 | .123 | .221 | .808 | .766 | 2.617 | .077 | 245.181 |
| EUPHAUSIA KROHNII | .037 | .010 | .022 | .075 | .151 | .744 | .686 | 2.617 | .071 | 223.983 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .039 | .011 | .032 | .000 | .074 | .000 | .000 | 9.763 |
| NEMATOSCELIS MEGALOPS | .000 | .000 | .022 | .030 | .028 | .059 | .000 | .000 | .000 | 8.021 |
| STYLOCHEIRON SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .006 | .321 |

TOW 17 23/09/85 1430H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| THYSANOESSA LONGICAUDATA | .000 | .005 | .000 | .007 | .004 | .006 | .000 | .000 | .000 | 1.308 |
| THYSANOPODA SP. | .000 | .002 | .009 | .000 | .000 | .000 | .000 | .000 | .000 | 1.113 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .000 | .007 | .000 | .006 | .000 | .000 | .673 |
| DECAPODA | .006 | .019 | .022 | .000 | .000 | .000 | .000 | .000 | .000 | 4.725 |
| GENNADAS SP. | .006 | .017 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 2.304 |
| SERGESTES SP. | .000 | .002 | .022 | .000 | .000 | .000 | .000 | .000 | .000 | 2.420 |
| CHAETOGNATHA | .061 | .041 | .035 | .045 | .018 | .029 | .032 | .051 | .026 | 23.759 |
| EUKHRONIA FOWLERI | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .307 |
| EUKHRONIA HAMATA | .031 | .034 | .022 | .034 | .011 | .028 | .029 | .026 | .019 | 15.900 |
| SAGITTA MACROCEPHALA | .003 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .548 |
| SAGITTA MAXIMA | .003 | .005 | .007 | .004 | .007 | .000 | .000 | .026 | .000 | 3.256 |
| SAGITTA ZETOSIS | .006 | .000 | .000 | .007 | .000 | .002 | .003 | .000 | .000 | 1.240 |
| UNIDENTIFIED CHAETOGNATH | .015 | .000 | .007 | .000 | .000 | .000 | .000 | .000 | .006 | 2.508 |
| PICES | .015 | .031 | .015 | .011 | .018 | .050 | .003 | .005 | .006 | 10.859 |
| BENTHOSEMA GLACIALE | .000 | .010 | .015 | .000 | .011 | .048 | .003 | .000 | .000 | 5.573 |
| CHAULIODIUS SP. | .000 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .242 |
| CYCLOTHONE SP. | .012 | .019 | .000 | .011 | .007 | .000 | .000 | .005 | .006 | 4.646 |
| MALACOSTEUS SP. | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .307 |
| IMMATURE MYCTOPHID | .000 | .000 | .000 | .000 | .000 | .002 | .000 | .000 | .000 | .092 |

| TOW 16 23/09/85 1330H | 43 40.05 N 58 24.66 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 200.0 | 150.0 | 100.0 | 75.0 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 | |
| DEPTH2 (M) | 150.0 | 100.0 | 75.0 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 228. | 233. | 114. | 100. | 28. | 33. | 27. | 43. | 28. | |
| TOTAL BIOMASS (G/M3) | .003 | .003 | .006 | .008 | .005 | .009 | .018 | .020 | .056 | 1.695 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMACINA HELICOIDES | .04 | .02 | .12 | .02 | .11 | .06 | .37 | .31 | .00 | 15.14 |
| LIMACINA INFLATA | .10 | .06 | .06 | .05 | .04 | .52 | .00 | 1.24 | 4.76 | 76.78 |
| LIMACINA LESUEURII | .00 | .04 | .06 | .18 | .14 | .18 | .00 | .31 | .00 | 14.49 |
| LIMACINA TROCHIFORMIS | .04 | .04 | .00 | .16 | .00 | .06 | .00 | .31 | .00 | 12.14 |
| UNIDENTIFIED THECOSOMATA | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .45 |
| GYMNOSOMATA | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .93 | .00 | 11.59 |
| BIVALVE LARVAE | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .45 |
| PODON LEUCKARTI | .00 | .00 | .12 | .00 | .00 | .03 | .00 | .00 | .00 | 3.23 |
| CONCHOECIA BISPINOSA | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| CONCHOECIA CURTA | .73 | 1.70 | 1.29 | .05 | .04 | .06 | .25 | .00 | .00 | 158.34 |
| CONCHOECIA SP. | .12 | .00 | .00 | .00 | .00 | .06 | .00 | .00 | .95 | 16.00 |
| ACARTIA CLAUSI | .00 | .00 | .00 | .00 | .04 | .12 | .00 | 4.66 | 9.52 | 143.44 |
| ACARTIA DANAE | .00 | .00 | .00 | .00 | .00 | .00 | 8.55 | .93 | .00 | 94.83 |
| ACARTIA LONGIREMIS | .03 | .04 | .23 | .02 | .00 | .09 | .00 | .31 | .95 | 23.46 |
| ACARTIA SP. | .00 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 1.46 |
| CALANUS FINMARCHICUS-TOTAL | .06 | .06 | .06 | .02 | .00 | .31 | .00 | 7.15 | .00 | 82.61 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .45 |
| CALANUS FINMARCHICUS (S) | .01 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | 1.04 |
| CALANUS FINMARCHICUS VIF | .01 | .00 | .00 | .02 | .00 | .03 | .00 | .00 | .00 | 1.49 |
| CALANUS FINMARCHICUS V | .01 | .06 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | 4.87 |
| CALANUS FINMARCHICUS IV | .01 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | 1.04 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.18 | .95 | 31.59 |
| CALANUS FINMARCHICUS II | .00 | .00 | .06 | .00 | .00 | .03 | .00 | 2.49 | .00 | 26.63 |
| CALANUS FINMARCHICUS I | .01 | .00 | .00 | .00 | .00 | .09 | .00 | 2.49 | .00 | 26.52 |
| CALANUS GLACIALIS V | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.07 |
| CALANUS SP. | .10 | .36 | .00 | .43 | .07 | 5.31 | .00 | .93 | .00 | 97.33 |
| CALANUS MINOR | .00 | .00 | .12 | .00 | .04 | .09 | .37 | .93 | .00 | 17.24 |
| CALOCALANUS PAVO | .00 | .02 | .00 | .00 | .18 | .15 | .12 | 1.24 | .95 | 27.56 |
| CALOCALANUS PLUMULOSUS | .01 | .00 | .00 | .02 | .00 | .09 | .00 | .62 | .00 | 8.32 |
| CALOCALANUS STYLIREMIS | .00 | .00 | .06 | .00 | .00 | .03 | .00 | .00 | .00 | 1.77 |
| CANDACIA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| CENTROPAGES BRADYI | .00 | .00 | .12 | .00 | .11 | .06 | .25 | 8.39 | 6.67 | 157.65 |
| CLAUSOCALANUS ARCUICORNIS | .04 | .11 | .70 | .36 | 1.02 | 1.20 | 2.23 | 16.47 | 143.81 | 1681.46 |
| CLAUSOCALANUS FURCATUS | .89 | .62 | .94 | .20 | .28 | 1.69 | 5.33 | 13.99 | 46.67 | 783.66 |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .00 | .00 | .00 | .03 | .12 | .00 | .00 | 1.55 |
| EUAETIIDEUS GIESBRECHTI | .01 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.88 |
| EUCHEATA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| HETERORHABDUS PAPILLIGER | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.44 |
| MACROSTELLA GRACILIS | .00 | .00 | .06 | .00 | .11 | .00 | .12 | .62 | 1.90 | 29.02 |
| MECYNOCERA CLAUSI | .00 | .00 | .12 | .02 | .14 | .09 | 3.84 | 21.13 | .00 | 255.46 |
| METRIDIA LUCENS | .03 | .00 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 2.93 |
| OITHONA ATLANTICA | .22 | 1.33 | 17.54 | 2.52 | .28 | .21 | .12 | .00 | .95 | 594.76 |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .04 | .03 | .12 | .31 | .00 | 5.01 |
| ONCAEA SP. | .01 | .02 | .06 | .00 | .00 | .00 | .00 | .31 | .00 | 6.38 |
| PARACALANUS PARVUS | .00 | .02 | .12 | .04 | .04 | .21 | .00 | .00 | .00 | 7.40 |
| PLEUROMAMMA SP. | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| PSEUDOCALANUS MINUTUS | .03 | .02 | .00 | .00 | .04 | .03 | .00 | .00 | .95 | 12.72 |
| RHINCALANUS NASUTUS | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| SCOLECITHRICELLA MINOR | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .73 |
| SCOLECITHRIX BRADYI | .00 | .04 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 3.61 |
| TEMORA LONGICORNIS | .03 | .00 | .00 | .00 | .04 | .03 | .00 | .00 | .00 | 2.12 |
| UNID/DAM/EXO COPEPOD | .97 | 1.12 | 2.11 | 1.59 | 2.08 | 9.97 | 6.82 | 13.05 | 10.48 | 620.52 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .04 | .25 | .50 | .31 | .00 | 10.87 |
| PARATHEMISTO LIBELLULA | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .92 |
| PARATHEMISTO SP. | .06 | .00 | .00 | .02 | .14 | .25 | 1.12 | .62 | .00 | 24.61 |
| M. NORVEGICA CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .31 |
| UNIDENTIFIED CALYPTOSIS | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.20 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .12 | .00 | .00 | 1.24 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .02 | .00 | .00 | .12 | .00 | .00 | 1.69 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .06 | .00 | 2.49 | 4.76 | 73.10 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .31 |
| DAMAGED FURCILIAE | .03 | .00 | .00 | .00 | .00 | .03 | .12 | .00 | .00 | 3.01 |
| SAGITTA ELEGANS | .00 | .00 | .00 | .02 | .00 | .03 | .00 | .31 | .95 | 13.39 |
| SAGITTA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .12 | .62 | .00 | 7.46 |
| EUKRONIA HAMATUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .31 | .00 | 3.11 |
| DAMAGED CHAETOGNATH | .00 | .00 | .00 | .00 | .04 | .00 | .12 | .62 | .95 | 17.33 |
| SAGITTA SETOSA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .31 | .95 | 12.63 |

TOW 16 23/09/85 1330H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| SALP | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .62 | .00 | 6.22 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EUPHAUSIACEA | .000 | .004 | .026 | .020 | .000 | .000 | .000 | .000 | .036 | 1.728 |
| STYLOCHEIRON SP. | .000 | .000 | .000 | .010 | .000 | .000 | .000 | .000 | .000 | .249 |
| THYSANOESSA INERMIS | .000 | .004 | .026 | .000 | .000 | .000 | .000 | .000 | .000 | .872 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .010 | .000 | .000 | .000 | .000 | .000 | .249 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .036 | .357 |
| DECAPODA | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .215 |
| SOLENOCERA | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .215 |
| CHAETOGNATHA | .000 | .017 | .009 | .000 | .000 | .000 | .186 | .513 | .286 | 10.922 |
| SAGITTA ELEGANS | .000 | .000 | .009 | .000 | .000 | .000 | .186 | .513 | .286 | 10.063 |
| SAGITTA HEXAPTERA | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .215 |
| SAGITTA MAXIMA | .000 | .013 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .644 |

| TOW 20 25/09/85 1330H | 45 49.54 N | 58 29.79 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 285.0 | 260.0 | 235.0 | 220.0 | 200.0 | 170.0 | 75.0 | 40.0 | 20.0 | |
| DEPTH2 (M) | 260.0 | 235.0 | 220.0 | 200.0 | 170.0 | 75.0 | 40.0 | 20.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 153. | 217. | 147. | 166. | 221. | 615. | 229. | 179. | 117. | |
| TOTAL BIOMASS (G/M3) | 4.034 | 2.736 | 1.429 | .650 | .217 | .026 | .039 | .125 | .176 | 220.005 |
| EUPHAUSIACEA BIOMASS (G/M3) | .002 | .005 | .009 | .001 | .025 | .001 | .000 | .000 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED/DAMAGED MEDUSA | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | 4.89 |
| BEROE SP | .00 | .00 | 1.74 | .00 | .00 | .00 | .00 | .00 | .00 | 26.09 |
| GASTROPODA-JUVENILE | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 2.45 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | .00 | .21 | .00 | .36 | .00 | 26.93 |
| GYMNOSOMATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .72 | .00 | 14.32 |
| ACARTIA LONGIREMIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .36 | .00 | 7.16 |
| CALANUS FINMARCHICUS-TOTAL | 2776.95 | 1639.15 | 476.52 | 593.26 | 150.72 | 11.14 | 14.81 | 138.52 | 382.79 | 145940.19 |
| CALANUS FINMARCHICUS (D) | .00 | 18.84 | 1.74 | .00 | .00 | .21 | .14 | 3.94 | .00 | 600.52 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .00 | .00 | .21 | 11.10 | 3.29 | 295.07 |
| CALANUS FINMARCHICUS (S) | 53.40 | 18.84 | 3.48 | .00 | .58 | .21 | .14 | 1.07 | 1.10 | 1943.74 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | 1.74 | .00 | .00 | .00 | .00 | 1.79 | 1.10 | 83.82 |
| CALANUS FINMARCHICUS VIF | 53.40 | 37.68 | 5.22 | .00 | .58 | .42 | .49 | 16.11 | 4.39 | 2839.33 |
| CALANUS FINMARCHICUS V | 1695.54 | 989.14 | 252.17 | 296.63 | 56.23 | 5.62 | 7.13 | 55.12 | 62.52 | 81655.57 |
| CALANUS FINMARCHICUS IV | 627.48 | 838.42 | 184.35 | 234.83 | 73.04 | 4.58 | 3.77 | 23.62 | 86.65 | 49073.33 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | 3.09 | .00 | .00 | .21 | 5.01 | 40.58 | 981.01 |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.44 | 47.16 | 1072.13 |
| CALANUS FINMARCHICUS I | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.79 | 46.07 | 957.13 |
| CALANUS GLACIALIS (D) | .00 | 18.84 | 5.22 | .00 | .58 | .10 | .00 | .00 | 1.10 | 598.50 |
| CALANUS GLACIALIS (S) | 53.40 | 37.68 | 5.22 | 6.18 | 2.90 | .21 | .07 | .72 | 2.19 | 2646.34 |
| CALANUS GLACIALIS VIM | 13.35 | 9.42 | 3.48 | .00 | 1.16 | .00 | .14 | .00 | .00 | 661.13 |
| CALANUS GLACIALIS VIF | 53.40 | 56.52 | 10.43 | 6.18 | 3.48 | .31 | .07 | .72 | 3.29 | 3244.84 |
| CALANUS GLACIALIS V | 854.45 | 612.33 | 92.17 | 108.15 | 24.93 | 1.98 | 2.86 | 11.45 | 8.77 | 41655.42 |
| CALANUS GLACIALIS IV | 1375.12 | 1365.96 | 262.61 | 395.51 | 69.57 | 5.52 | 5.59 | 12.17 | 31.81 | 84062.66 |
| CALANUS GLACIALIS III | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 4.39 | 87.75 |
| CALANUS GLACIALIS II | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.10 | 21.94 |
| CALANUS GLACIALIS I | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.19 | 43.87 |
| CALANUS HYPERBOREUS-TOTAL | 1682.19 | 1252.92 | 276.52 | 376.97 | 84.64 | 6.45 | 8.24 | 22.91 | 51.55 | 89994.82 |
| CALANUS HYPERBOREUS (D) | 13.35 | 37.68 | 6.96 | 3.09 | .58 | .10 | .28 | .00 | .00 | 1479.02 |
| CALANUS HYPERBOREUS (S) | 13.35 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.10 | 355.70 |
| CALANUS HYPERBOREUS VIF | 26.70 | 37.68 | 6.96 | 3.09 | .58 | .10 | .28 | .00 | 1.10 | 1834.72 |
| CALANUS HYPERBOREUS V | 347.12 | 131.89 | 33.04 | 27.81 | 5.22 | .42 | 1.47 | 3.22 | 4.39 | 13426.55 |
| CALANUS HYPERBOREUS IV | 1041.36 | 810.16 | 206.96 | 281.18 | 60.87 | 2.71 | 5.24 | 8.23 | 25.23 | 57951.58 |
| CALANUS SP. | 787.69 | 584.07 | 64.35 | 117.42 | 32.46 | 1.56 | 6.01 | 46.53 | 136.01 | 42590.84 |
| CALANUS MINOR | .00 | 9.42 | 1.74 | 3.09 | .00 | .10 | .00 | .00 | .00 | 333.28 |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.10 | 21.94 |
| CLAUSOCALANUS FURCATUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .36 | .00 | 7.16 |
| CONAEA RAPAX | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.07 | 4.39 | 109.22 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | 3.09 | .00 | .00 | .00 | .36 | .00 | 68.96 |
| EUCHEATA SP. | 40.05 | 9.42 | 10.43 | 9.27 | 4.06 | 1.25 | .35 | .72 | .00 | 1845.67 |
| METRIDIA LONGA | 173.56 | 103.62 | 19.13 | 15.45 | 3.48 | .83 | 1.05 | 2.15 | 6.58 | 7920.25 |
| METRIDIA LUCENS | .00 | 9.42 | .00 | .00 | .58 | .21 | .21 | 3.94 | 3.29 | 424.57 |
| METRIDIA SP. | .00 | .00 | 1.74 | 3.09 | 1.74 | .10 | .21 | .36 | .00 | 164.44 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .58 | .83 | .00 | .00 | .00 | 96.49 |
| OITHONA ATLANTICA | .00 | 9.42 | 22.61 | 52.53 | 34.20 | 32.27 | 9.22 | 20.04 | 193.04 | 10301.04 |
| OITHONA SIMILIS | 13.35 | 37.68 | 17.39 | 6.18 | 1.16 | .00 | .42 | 7.52 | 63.62 | 3132.39 |
| OITHONA SP. | .00 | .00 | 1.74 | .00 | .00 | .00 | .00 | .36 | .00 | 33.25 |
| ONCAEA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.10 | 21.94 |
| PARACALANUS PARVUS | 13.35 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 333.77 |
| PSEUDOCALANUS MINUTUS | 240.31 | 65.94 | 8.70 | 6.18 | 5.80 | 1.67 | .21 | 8.59 | 20.84 | 8838.49 |
| SCOLECITHRICELLA MINOR | 13.35 | .00 | 1.74 | 3.09 | 1.74 | 1.46 | .21 | .00 | .00 | 619.59 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.29 | 65.81 |
| UNID/DAM/EXO COPEPOD | 106.81 | 28.26 | 12.17 | 6.18 | 3.48 | 2.19 | 4.12 | 19.33 | 70.20 | 5929.67 |
| AMPHIPOD-DAMAGED | 26.70 | .00 | .00 | .00 | .00 | .00 | .00 | .72 | 1.10 | 703.79 |
| PARATHEMISTO ABYSSORUM | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 2.45 |
| PARATHEMISTO GAUDICHAUDI | .00 | .00 | .00 | .00 | .00 | .21 | .00 | .00 | .00 | 19.78 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.07 | .00 | 21.48 |
| ISOPOD | .00 | .00 | 1.74 | .00 | .00 | .00 | .00 | .00 | .00 | 26.09 |
| M. NORVEGICA ADULT | .00 | .00 | .00 | .00 | .58 | .31 | .00 | .00 | .00 | 47.05 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .63 | .00 | .00 | 22.01 |
| THYSANOESSA LONGICAUDATA ADULT | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 9.89 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.43 | .00 | 28.64 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .36 | .00 | 7.16 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .00 | 1.74 | .10 | .14 | .72 | .00 | 81.27 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.29 | 65.81 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 2.45 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .14 | 5.37 | 4.39 | 200.02 |
| SAGITTA ELEGANS | .00 | .00 | .00 | .00 | .00 | .42 | .28 | .00 | .00 | 49.33 |

TOW 20 25/09/85 1330H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | | | | NUMBER PER CUBIC METER | | | | | | #/M2 |
| SAGITTA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 2.45 |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .00 | .21 | .00 | .00 | .00 | 19.78 |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .58 | .00 | .14 | .00 | .00 | 22.28 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .013 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .326 |
| CTENOPHORA | .104 | .000 | .041 | .006 | .014 | .010 | .000 | .000 | .000 | 4.674 |
| AMPHIPODA | .000 | .023 | .027 | .000 | .000 | .018 | .004 | .006 | .000 | 2.947 |
| PARATHEMISTO GAUDICHAUDII | .000 | .023 | .027 | .000 | .000 | .018 | .004 | .006 | .000 | 2.947 |
| EUPHAUSIACEA | .007 | .028 | .034 | .018 | .190 | .031 | .009 | .000 | .000 | 10.672 |
| MEGANYCTIPHANES NORVEGICA | .007 | .018 | .034 | .006 | .190 | .026 | .000 | .000 | .000 | 9.432 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .006 | .000 | .003 | .009 | .000 | .000 | .735 |
| THYSANOESSA LONGICAUDATA | .000 | .009 | .000 | .006 | .000 | .002 | .000 | .000 | .000 | .505 |
| DECAPODA | .026 | .014 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | 1.133 |
| PASIPHAEA SP. | .026 | .014 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .997 |
| UNIDENTIFIED DECAPOD | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .136 |
| CHAETOGNATHA | .156 | .147 | .149 | .115 | .032 | .164 | .170 | .022 | .009 | 35.261 |
| EUKHRONIA HAMATA | .065 | .120 | .095 | .030 | .005 | .007 | .000 | .000 | .000 | 7.404 |
| SAGITTA ELEGANS | .091 | .028 | .054 | .084 | .027 | .158 | .170 | .022 | .009 | 27.858 |

| TOW 21 25/09/85 1530H | 45 59.71 N 58 28.36 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 270.0 | 250.0 | 240.0 | 205.0 | 180.0 | 165.0 | 100.0 | 75.0 | 30.0 | |
| DEPTH2 (M) | 250.0 | 240.0 | 205.0 | 180.0 | 165.0 | 100.0 | 75.0 | 30.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 101. | 68. | 258. | 184. | 116. | 376. | 138. | 197. | 124. | |
| TOTAL BIOMASS (G/M3) | 1.228 | .654 | .112 | .143 | .223 | .048 | .020 | .025 | .104 | 49.828 |
| EUPHAUSIACEA BIOMASS (G/M3) | .009 | .002 | .000 | .000 | .000 | .000 | .002 | .003 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| SIPHONOPHORA | .00 | .00 | .41 | 1.16 | 1.11 | .00 | .00 | .00 | .00 | 60.11 |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 | 6.08 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.87 | 116.13 |
| LIMACINA INFLATA | .00 | .00 | .00 | .00 | .55 | .00 | .00 | .00 | .00 | 8.30 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 19.35 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .14 | .65 | 43.88 |
| EVADNE SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 19.35 |
| EVADNE NORDMANNI | .00 | .00 | .00 | .58 | .00 | .00 | .00 | .00 | .65 | 33.87 |
| EVADNE SPINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | 3.62 |
| CONCHOECIA SPINIFERA | 2.11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 42.24 |
| CALANUS FINMARCHICUS-TOTAL | 126.73 | 115.12 | 39.69 | 49.94 | 62.56 | 13.05 | 5.80 | 5.54 | 152.90 | 13091.49 |
| CALANUS FINMARCHICUS (D) | .00 | 2.35 | 1.65 | .58 | 1.11 | .85 | .00 | .14 | 1.29 | 212.61 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .58 | .00 | 1.13 | .87 | .41 | 7.74 | 360.52 |
| CALANUS FINMARCHICUS (S) | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .27 | .65 | 31.52 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .14 | .65 | 43.88 |
| CALANUS FINMARCHICUS VIF | .00 | 2.35 | 1.65 | 1.16 | 1.11 | 1.99 | .87 | .81 | 9.68 | 604.65 |
| CALANUS FINMARCHICUS V | 95.05 | 77.53 | 28.53 | 32.52 | 45.40 | 6.52 | 2.75 | 2.97 | 29.68 | 6685.74 |
| CALANUS FINMARCHICUS IV | 31.68 | 35.24 | 9.10 | 14.52 | 12.73 | 3.12 | 1.59 | 1.08 | 18.71 | 2710.99 |
| CALANUS FINMARCHICUS III | .00 | .00 | .00 | .58 | .55 | .00 | .43 | .00 | 24.52 | 769.17 |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | 1.16 | 1.11 | .00 | .14 | .41 | 16.77 | 570.74 |
| CALANUS FINMARCHICUS I | .00 | .00 | .41 | .00 | 1.66 | 1.13 | .00 | .14 | 52.90 | 1706.32 |
| CALANUS GLACIALIS (D) | 2.11 | 1.17 | .41 | .00 | 1.66 | .00 | .00 | .00 | .65 | 112.73 |
| CALANUS GLACIALIS (S) | .00 | .00 | .41 | .58 | .00 | .00 | .00 | .00 | .00 | 28.99 |
| CALANUS GLACIALIS VIM | .00 | .00 | .00 | .00 | 1.11 | .00 | .14 | .00 | .00 | 20.23 |
| CALANUS GLACIALIS VIF | 2.11 | 1.17 | .83 | .58 | 1.66 | .00 | .00 | .00 | .65 | 141.72 |
| CALANUS GLACIALIS V | 31.68 | 17.62 | 5.79 | 6.39 | 12.73 | 1.99 | .29 | .41 | 5.81 | 1691.91 |
| CALANUS GLACIALIS IV | 40.13 | 22.32 | 4.96 | 15.68 | 16.06 | 8.51 | .29 | .68 | 1.94 | 2481.17 |
| CALANUS HYPERBOREUS-TOTAL | 251.35 | 70.48 | 12.40 | 11.61 | 27.13 | 3.12 | 1.16 | 3.24 | 10.97 | 7570.09 |
| CALANUS HYPERBOREUS (D) | 2.11 | 2.35 | .41 | .00 | .55 | .00 | .00 | .00 | .00 | 88.51 |
| CALANUS HYPERBOREUS (S) | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 19.35 |
| CALANUS HYPERBOREUS VIF | 2.11 | 2.35 | .41 | .00 | .55 | .00 | .00 | .00 | .65 | 107.87 |
| CALANUS HYPERBOREUS V | 31.68 | 16.45 | .83 | 1.16 | 1.11 | .00 | .14 | .14 | 1.29 | 921.12 |
| CALANUS HYPERBOREUS IV | 215.45 | 46.99 | 9.51 | 9.29 | 25.47 | 2.84 | 1.01 | 3.11 | 9.03 | 6346.51 |
| CENTROPAGES HAMATUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.29 | 38.71 |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 19.35 |
| CLAUSOCALANUS FURCATUS | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | .00 | 18.44 |
| EUCHEATA NORVEGICA | .00 | .00 | .00 | .58 | .55 | .00 | .00 | .14 | .00 | 28.90 |
| EUCHAETA TONSA | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | .00 | 18.44 |
| EUCHEATA SP. | .00 | .00 | .00 | .00 | .55 | .28 | .00 | .00 | .00 | 26.74 |
| GAIDIUS TENUISPINUS | .00 | 1.17 | 2.89 | 4.06 | .55 | .00 | .00 | .00 | .00 | 222.96 |
| METRIDIA LONGA | 12.67 | 10.57 | 3.31 | 5.81 | 8.30 | .57 | .14 | .41 | .65 | 822.79 |
| METRIDIA LUCENS | 2.11 | 1.17 | 8.68 | 6.97 | 8.30 | 1.70 | .72 | .14 | 8.39 | 1043.08 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .00 | 1.99 | .72 | .00 | .00 | 147.19 |
| OITHONA ATLANTICA | .00 | .00 | .41 | 2.32 | 3.88 | 2.55 | 4.06 | .95 | 1.29 | 479.36 |
| OITHONA SIMILIS | 10.56 | 4.70 | 7.03 | 8.13 | 7.20 | 18.16 | 29.71 | 10.81 | 201.94 | 9282.92 |
| PARACALANUS PARVUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .65 | 19.35 |
| PSEUDOCALANUS MINUTUS | 8.45 | 10.57 | .83 | 5.23 | 4.43 | .85 | 7.10 | 2.97 | 38.06 | 2009.33 |
| SCOLECITHRICELLA MINOR | .00 | .00 | .00 | 4.06 | 4.98 | 2.84 | .14 | .14 | .00 | 370.46 |
| SPINOCALANUS ABYSALLIS | .00 | .00 | .00 | .00 | 1.66 | 1.42 | 1.88 | .14 | .00 | 170.30 |
| SPINOCALANUS SP. | .00 | 1.17 | .83 | .00 | .00 | .00 | .00 | .00 | .00 | 40.69 |
| TEMORA LONGICORNIS | .00 | .00 | .41 | .00 | .00 | .00 | .00 | .14 | 13.55 | 427.00 |
| UNDEUCHAETA SP. | .00 | 1.17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 11.75 |
| UNID/DAM/EXO COPEPOD | 6.34 | 39.94 | 7.03 | 10.45 | 13.84 | 2.84 | 3.04 | 4.05 | 27.10 | 2496.90 |
| COPEPOD NAUPLII | .00 | .00 | .00 | .00 | .00 | .28 | .00 | .00 | 5.16 | 173.28 |
| AMPHIPODA EGGS | .00 | .00 | .00 | .00 | .00 | 1.13 | .00 | .00 | .00 | 73.76 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .41 | .00 | 18.25 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.29 | 38.71 |
| EUPHAUSIID EGGS | 2.11 | .00 | .00 | .00 | .00 | .00 | .29 | .27 | 1.94 | 119.72 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .55 | .00 | .00 | .41 | .00 | 26.55 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | 1.16 | .00 | .00 | 28.99 |

TOW 21 25/09/85 1530H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON | | | | | | | | | | |
| UNIDENTIFIED SIPHONOPHORE | .050 | .059 | .004 | .005 | .000 | .000 | .000 | .000 | .000 | 1.849 |
| UNIDENTIFIED MEDUSA | .000 | .000 | .004 | .000 | .000 | .005 | .000 | .000 | .000 | .481 |
| CTENOPHORA | .000 | .000 | .000 | .000 | .000 | .005 | .007 | .000 | .048 | 1.979 |
| TOMOPTERIS SP. | .010 | .015 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .481 |
| AMPHIPODA | .010 | .015 | .000 | .000 | .009 | .032 | .014 | .000 | .008 | 3.153 |
| PARATHEMISTO GAUDICHAUDII | .010 | .015 | .000 | .000 | .009 | .032 | .014 | .000 | .008 | 3.153 |
| EUPHAUSIACEA | .040 | .044 | .004 | .005 | .026 | .008 | .210 | .289 | .032 | 21.634 |
| MEGANYCTIPHANES NORVEGICA | .040 | .044 | .000 | .000 | .000 | .000 | .000 | .000 | .008 | 1.475 |
| NEMATOSCELIS MEGALOPS | .000 | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .136 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .000 | .017 | .005 | .036 | .091 | .000 | 5.616 |
| THYSANOESSA LONGICAUDATA | .000 | .000 | .000 | .005 | .009 | .003 | .174 | .198 | .024 | 14.407 |
| DECAPODA | .040 | .059 | .004 | .005 | .026 | .000 | .000 | .000 | .008 | 2.282 |
| PASIPHAEA SP. | .040 | .059 | .004 | .005 | .026 | .000 | .000 | .000 | .008 | 2.282 |
| CHAETOGNATHA | .139 | .132 | .031 | .049 | .147 | .154 | .043 | .010 | .016 | 20.663 |
| EUKHRONIA HAMATA | .139 | .088 | .027 | .044 | .112 | .027 | .007 | .005 | .008 | 9.758 |
| SAGITTA ELEGANS | .000 | .044 | .004 | .005 | .026 | .128 | .036 | .005 | .008 | 10.775 |
| UNIDENTIFIED CHAETOGNATH | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .000 | .130 |

| TOW 22 26/09/85 0830H | 46 31.51 N 58 16.68 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 430.0 | 365.0 | 300.0 | 250.0 | 200.0 | 150.0 | 71.0 | 30.0 | 20.0 | |
| DEPTH2 (M) | 365.0 | 300.0 | 250.0 | 200.0 | 150.0 | 71.0 | 30.0 | 20.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 145. | 226. | 222. | 221. | 210. | 298. | 149. | 31. | 99. | |
| TOTAL BIOMASS (G/M3) | .223 | .127 | .121 | .075 | .082 | .018 | .018 | .059 | .089 | 41.182 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .003 | .007 | .001 | .001 | .003 | .003 | .006 | .000 | |
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| SIPHONOPHORA | .00 | .71 | .96 | .00 | .00 | .00 | .00 | .00 | .00 | 94.07 |
| LIMACINA BULIMOIDES | .00 | .00 | .32 | .00 | 1.52 | .54 | .00 | 1.29 | .00 | 147.57 |
| LIMACINA HELICOIDES | .00 | .24 | .32 | .00 | .51 | .54 | .10 | .18 | 2.16 | 148.33 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .36 | .25 | .98 | .23 | .00 | 3.24 | 182.97 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .32 | .00 | .00 | .54 | .13 | .37 | .00 | 67.63 |
| LIMACINA SP. | .00 | .00 | .00 | .00 | .76 | .36 | .07 | .18 | .00 | 70.97 |
| LIMACINA HELICINA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .18 | .00 | 1.85 |
| GYMNOSOMATA | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | 1.38 |
| BIVALVE LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 1.08 | 22.97 |
| CONCHOECIA BOREALIS | 1.47 | .00 | .32 | .00 | .00 | .00 | .00 | .00 | .00 | 111.65 |
| CONCHOECIA CURTA | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | 7.07 |
| CONCHOECIA INERMIS | .00 | .24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 15.34 |
| CONCHOECIA SPINIFERA | .25 | .24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 31.28 |
| CONCHOECIA SPINIROSTRIS | 1.23 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 110.37 |
| CONCHOECIA SP. | 1.47 | .24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 110.97 |
| CALANUS FINMARCHICUS-TOTAL | 10.54 | 16.05 | 26.91 | 21.72 | 15.49 | 2.77 | 2.28 | 18.86 | 158.70 | 8609.78 |
| CALANUS FINMARCHICUS (D) | .49 | .24 | .00 | .00 | .51 | .09 | .07 | .18 | .00 | 84.28 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .36 | .00 | .09 | .03 | .92 | 2.16 | 78.98 |
| CALANUS FINMARCHICUS (S) | .00 | .00 | 1.28 | .00 | .76 | .09 | .07 | .37 | .00 | 115.68 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .72 | .00 | .00 | .00 | .18 | .00 | 38.05 |
| CALANUS FINMARCHICUS VIF | .49 | .24 | 1.28 | .36 | 1.27 | .27 | .17 | 1.48 | 2.16 | 278.94 |
| CALANUS FINMARCHICUS V | 7.11 | 13.69 | 22.74 | 13.03 | 4.83 | 1.43 | 1.14 | 9.25 | 24.83 | 4130.87 |
| CALANUS FINMARCHICUS IV | 2.70 | 1.89 | 2.88 | 7.24 | 8.89 | .98 | .74 | 4.07 | 59.38 | 2584.92 |
| CALANUS FINMARCHICUS III | .25 | .00 | .00 | .36 | .25 | .09 | .23 | 2.22 | 45.34 | 992.51 |
| CALANUS FINMARCHICUS II | .00 | .24 | .00 | .00 | .25 | .00 | .00 | 1.48 | 15.11 | 345.13 |
| CALANUS FINMARCHICUS I | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .37 | 11.88 | 241.22 |
| CALANUS GLACIALIS (D) | .00 | .00 | .32 | .36 | .00 | .00 | .00 | .00 | .00 | 34.12 |
| CALANUS GLACIALIS (S) | .00 | .00 | .00 | .36 | .00 | .00 | .00 | .00 | .00 | 18.10 |
| CALANUS GLACIALIS VIM | .00 | .00 | .00 | .00 | .76 | .09 | .00 | .00 | .00 | 45.16 |
| CALANUS GLACIALIS VIF | .00 | .00 | .32 | .72 | .00 | .00 | .00 | .00 | .00 | 52.22 |
| CALANUS GLACIALIS V | .74 | 4.48 | 7.05 | 11.95 | 4.83 | 1.61 | .17 | 1.11 | .00 | 1675.39 |
| CALANUS GLACIALIS IV | 1.23 | 3.07 | 7.37 | 14.12 | 8.13 | .98 | .20 | 1.48 | 1.08 | 1882.11 |
| CALANUS HYPERBOREUS-TOTAL | 37.76 | 16.28 | 9.93 | 2.17 | 1.52 | .36 | .70 | 4.81 | 3.24 | 4364.28 |
| CALANUS HYPERBOREUS (D) | .74 | .47 | .00 | .00 | .25 | .00 | .03 | .00 | .00 | 92.57 |
| CALANUS HYPERBOREUS (S) | .25 | .00 | .00 | .00 | .00 | .18 | .03 | .37 | .00 | 35.15 |
| CALANUS HYPERBOREUS VIF | .98 | .47 | .00 | .00 | .25 | .18 | .07 | .37 | .00 | 127.72 |
| CALANUS HYPERBOREUS V | 11.03 | 3.30 | 1.92 | .72 | .00 | .00 | .20 | 2.03 | 2.16 | 1136.07 |
| CALANUS HYPERBOREUS IV | 25.01 | 12.04 | 8.01 | 1.45 | 1.27 | .18 | .44 | 2.40 | 1.08 | 3022.00 |
| CALANUS SP. | 3.19 | 3.07 | 24.02 | 2.90 | 2.29 | 2.06 | 1.07 | 8.51 | .00 | 2158.59 |
| EUCHEATA NORVEGICA | 2.21 | .47 | .32 | 1.09 | .00 | .18 | .00 | .00 | .00 | 258.58 |
| EUCHEATA SP. | .00 | .00 | .00 | .72 | .25 | .09 | .00 | .00 | .00 | 55.97 |
| GAIDIUS TENUISPINUS | 2.45 | 3.54 | .96 | .36 | .25 | .00 | .03 | .00 | .00 | 469.70 |
| METRIDIA LONGA | 1.47 | 2.60 | 4.80 | 7.96 | 10.92 | .27 | .17 | 1.11 | 2.16 | 1531.19 |
| METRIDIA LUCENS | .25 | .00 | .64 | 5.79 | 5.08 | .27 | .03 | .37 | .00 | 617.81 |
| OITHONA ATLANTICA | .00 | .24 | .64 | 1.45 | .51 | .09 | .00 | .18 | .00 | 154.08 |
| OITHONA SIMILIS | .49 | .71 | .32 | 2.17 | 4.32 | 4.12 | .30 | 1.29 | 17.27 | 1114.38 |
| ONCAEA CONIFERA | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .00 | .00 | 12.70 |
| ONCAEA SP. | .49 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 31.88 |
| PSEUDOCALANUS MINUTUS | .25 | .47 | .00 | .36 | .76 | .36 | .07 | .74 | 11.88 | 378.76 |
| SCOLECITHRICELLA MINOR | .00 | .94 | .32 | 2.53 | .00 | .89 | .00 | .00 | .00 | 274.76 |
| SPINOCALANUS ABYSSALLIS | 5.15 | 2.83 | 1.92 | .72 | .00 | 1.25 | .00 | .00 | .00 | 750.05 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.08 | 21.59 |
| UNID/DAM/EXO COPEPOD | 8.09 | 3.54 | 6.73 | 5.07 | 4.57 | 1.43 | 1.24 | 3.51 | 8.64 | 1946.26 |
| UNIDENTIFIED HARPACTICOID | .25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 15.94 |
| CALANUS SPP. NAUPLII | .00 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 30.68 |
| COPEPOD NAUPLII | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .18 | .00 | 14.55 |
| AMPHIPODA EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .20 | .00 | .00 | 8.26 |
| PARATHEMISTO LIBELLULA | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | 4.13 |
| PARATHEMISTO SP. | .00 | .24 | .00 | .00 | .00 | .63 | .13 | 1.85 | 3.24 | 153.60 |
| M. NORVEGICA FURCILIA | .00 | .24 | .00 | .00 | .00 | .00 | .54 | .00 | .00 | 37.35 |
| UNIDENTIFIED CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .47 | .00 | .00 | 19.26 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .18 | .00 | 1.85 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.08 | 21.59 |
| EUPHAUSIID EGGS | .00 | .00 | .32 | .72 | .51 | .27 | .07 | 1.85 | 10.80 | 335.99 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .09 | .03 | .37 | 1.08 | 33.74 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .30 | .37 | .00 | 16.08 |
| DECAPOD LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .18 | .00 | 1.85 |

TOW 22 26/09/85 0830H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .92 | .00 | 9.25 |
| DAMAGED APPENDICULARIA | .00 | .00 | .00 | .00 | .00 | .54 | .07 | .00 | .00 | 45.17 |
| FRITILLARIA SP. | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | 7.07 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIPHIDAE | .007 | .000 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .674 |
| UNIDENTIFIED SIPHONOPHORE | .021 | .000 | .014 | .000 | .014 | .000 | .000 | .000 | .000 | 2.735 |
| UNIDENTIFIED MEDUSA | .014 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .897 |
| CTENOPHORA | .007 | .004 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .974 |
| TOMOPTERIS SP. | .000 | .031 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 2.013 |
| AMPHIPODA | .000 | .000 | .000 | .009 | .014 | .040 | .013 | .000 | .000 | 4.898 |
| PARATHEMISTO GAUDICHAUDII | .000 | .000 | .000 | .009 | .014 | .040 | .013 | .000 | .000 | 4.898 |
| MYSIDACEA | .028 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.793 |
| BOREOMYSIS SP. | .028 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.793 |
| EUPHAUSIACEA | .007 | .018 | .045 | .027 | .033 | .027 | .141 | .032 | .000 | 15.098 |
| EUPHAUSIA KROHNII | .000 | .000 | .000 | .000 | .010 | .000 | .000 | .000 | .000 | .476 |
| MEGANYCTIPHANES NORVEGICA | .000 | .013 | .045 | .027 | .019 | .020 | .054 | .032 | .000 | 9.541 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .000 | .000 | .003 | .087 | .000 | .000 | 3.842 |
| THYSANOESSA LONGICAUDATA | .000 | .004 | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .553 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .007 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .686 |
| DECAPODA | .055 | .111 | .000 | .000 | .000 | .000 | .007 | .000 | .000 | 11.052 |
| PASIPHAEA SP. | .055 | .111 | .000 | .000 | .000 | .000 | .007 | .000 | .000 | 11.052 |
| CHAETOGNATHA | .110 | .044 | .027 | .032 | .081 | .050 | .000 | .032 | .010 | 21.534 |
| EUKHRONIA HAMATA | .110 | .044 | .023 | .027 | .071 | .003 | .000 | .032 | .010 | 16.895 |
| SAGITTA ELEGANS | .000 | .000 | .005 | .005 | .010 | .040 | .000 | .000 | .000 | 4.109 |
| UNIDENTIFIED CHAETOGNATH | .000 | .000 | .000 | .000 | .000 | .007 | .000 | .000 | .000 | .530 |
| PICES | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .288 |
| BENTHOSEMA GLACIALE | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .288 |

| TOW 23 26/09/85 1730H | 45 46.56 N | 57 26.72 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 400.0 | 350.0 | 300.0 | 250.0 | 200.0 | 150.0 | 75.0 | 50.0 | 20.0 | |
| DEPTH2 (M) | 350.0 | 300.0 | 250.0 | 200.0 | 150.0 | 75.0 | 50.0 | 20.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 151. | 237. | 277. | 238. | 160. | 152. | 36. | 35. | 38. | |
| TOTAL BIOMASS (G/M3) | .123 | .080 | .055 | .048 | .193 | .092 | .048 | .067 | .128 | 37.558 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .006 | .003 | .001 | .000 | .000 | .003 | .014 | .001 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| SIPHONOPHORA | .00 | .81 | .00 | .00 | .00 | .00 | .00 | .19 | .00 | 46.22 |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | 52.63 |
| LIMACINA HELICOIDES | .00 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | 2.11 | 55.61 |
| LIMACINA INFLATA | .00 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | 8.25 |
| LIMACINA TROCHIFORMIS | .18 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | 2.11 | 59.19 |
| LIMACINA SP. | .18 | .00 | .00 | .00 | 1.33 | .00 | .00 | .00 | .00 | 75.50 |
| GYMNOSOMATA | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | 52.63 |
| CONCHOECIA BOREALIS | .71 | .00 | .00 | .00 | .00 | .00 | .22 | .19 | .00 | 46.59 |
| CONCHOECIA SPINIROSTRIS | .53 | .81 | .00 | .54 | .67 | .00 | .22 | .19 | .00 | 138.49 |
| CONCHOECIA SP. | .00 | .00 | .00 | .27 | .67 | .00 | .00 | .00 | .00 | 46.78 |
| AETIDEUS ARMATUS | .00 | .00 | .00 | .00 | .67 | .70 | .00 | .19 | .00 | 91.68 |
| CALANUS FINMARCHICUS-TOTAL | 10.42 | 17.01 | 12.38 | 30.12 | 52.00 | 49.82 | 20.00 | 16.95 | 326.32 | 17368.09 |
| CALANUS FINMARCHICUS (D) | .35 | .27 | .00 | .27 | .67 | .00 | 1.11 | .19 | .00 | 111.43 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .17 | .00 | .00 | 2.11 | 2.44 | .95 | 10.53 | 466.36 |
| CALANUS FINMARCHICUS (S) | .88 | .54 | .00 | .54 | 1.33 | 2.11 | .67 | .57 | 2.11 | 398.52 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .00 | 1.40 | .44 | .19 | .00 | 122.09 |
| CALANUS FINMARCHICUS VIF | 1.24 | .81 | .17 | .81 | 2.00 | 4.21 | 4.22 | 1.71 | 12.63 | 976.31 |
| CALANUS FINMARCHICUS V | 7.24 | 10.53 | 9.74 | 24.20 | 42.00 | 35.79 | 7.78 | 8.38 | 37.89 | 8573.52 |
| CALANUS FINMARCHICUS IV | 1.41 | 5.13 | 2.15 | 4.57 | 6.67 | 7.02 | 3.56 | 2.29 | 48.42 | 2648.55 |
| CALANUS FINMARCHICUS III | .18 | .27 | .00 | .00 | .67 | .70 | .22 | .95 | 35.79 | 858.21 |
| CALANUS FINMARCHICUS II | .18 | .27 | .17 | .27 | .00 | .00 | .22 | .57 | 42.11 | 908.83 |
| CALANUS FINMARCHICUS I | .18 | .00 | .17 | .27 | .67 | .70 | 3.56 | 2.86 | 149.47 | 3280.57 |
| CALANUS GLACIALIS (S) | .00 | .00 | .00 | .27 | .00 | .00 | .00 | .00 | .00 | 13.45 |
| CALANUS GLACIALIS VIM | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | 52.63 |
| CALANUS GLACIALIS VIF | .00 | .00 | .00 | .27 | .00 | .00 | .00 | .00 | .00 | 13.45 |
| CALANUS GLACIALIS V | 1.77 | 3.24 | 2.31 | 6.18 | 8.67 | 10.53 | 1.78 | 1.52 | 6.32 | 2114.37 |
| CALANUS GLACIALIS IV | 1.77 | 2.97 | 2.48 | 3.23 | 24.00 | 11.93 | .89 | 2.86 | 2.11 | 2766.72 |
| CALANUS GLACIALIS III | .18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 8.83 |
| CALANUS HYPERBOREUS-TOTAL | 13.25 | 9.18 | 2.81 | 2.42 | 6.67 | .70 | 4.00 | 3.05 | 14.74 | 2254.74 |
| CALANUS HYPERBOREUS (D) | .18 | .00 | .00 | .00 | .00 | .00 | .67 | .38 | 2.11 | 79.03 |
| CALANUS HYPERBOREUS (S) | .18 | .00 | .17 | .00 | .00 | .70 | .00 | .00 | .00 | 69.71 |
| CALANUS HYPERBOREUS VIF | .35 | .00 | .17 | .00 | .00 | .70 | .67 | .38 | 2.11 | 148.74 |
| CALANUS HYPERBOREUS V | 2.65 | 1.08 | .17 | .27 | .00 | .00 | 1.33 | 1.52 | 4.21 | 371.41 |
| CALANUS HYPERBOREUS IV | 9.18 | 7.83 | 2.31 | 1.61 | 5.33 | .00 | 2.00 | 1.14 | 8.42 | 1566.29 |
| CALANUS SP. | 2.65 | 4.32 | 5.61 | .54 | 1.33 | .00 | .44 | 3.81 | 14.74 | 1142.73 |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .00 | .00 | .00 | .44 | .38 | 8.42 | 190.96 |
| CHIRIDIUS GRACILIS | 1.59 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 79.47 |
| CLAUSOCALANUS FURCATUS | .18 | .54 | .00 | .00 | .67 | 3.51 | .00 | .19 | 4.21 | 422.25 |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .19 | .00 | 5.71 |
| EUCHEATA NORVEGICA | 1.77 | .27 | .00 | .00 | .67 | .70 | .44 | .38 | .00 | 210.31 |
| EUCHEATA SP. | .00 | .27 | .50 | .81 | 2.67 | 2.81 | .22 | .00 | .00 | 428.01 |
| GAIDIUS TENUISPINUS | 1.94 | 5.40 | 1.65 | 5.92 | 8.00 | 1.40 | .22 | .19 | 2.11 | 1304.13 |
| LUCICUTIA FLAVICORNIS | .00 | .00 | .33 | .00 | .00 | .00 | .00 | .00 | .00 | 16.50 |
| METRIDIA LONGA | 4.06 | 5.67 | 1.82 | .81 | 1.33 | 16.84 | .89 | 1.71 | .00 | 2021.21 |
| METRIDIA LUCENS | .18 | 4.86 | 3.63 | 2.15 | 10.00 | 28.77 | 3.78 | 3.05 | 8.42 | 3553.16 |
| MICROCALANUS PYGMAEUS | .88 | 1.08 | .00 | .54 | .00 | 1.40 | .00 | .00 | .00 | 230.31 |
| OITHONA ATLANTICA | .00 | .00 | .33 | .81 | 1.33 | 11.23 | 2.44 | .38 | .00 | 1038.15 |
| OITHONA SIMILIS | .71 | 1.08 | 3.30 | 2.96 | 7.33 | 24.56 | 10.22 | 6.29 | 387.37 | 10802.53 |
| ONCAEA BOREALIS | .00 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | 8.25 |
| ONCAEA CONIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .19 | .00 | 5.71 |
| ONCAEA SP. | .35 | .27 | .00 | .27 | .67 | .70 | .00 | .00 | .00 | 130.57 |
| PARACALANUS PARVUS | .00 | .00 | .17 | .00 | .00 | .00 | .22 | .00 | 12.63 | 266.44 |
| PSEUDOCALANUS MINUTUS | 1.06 | .54 | .66 | .27 | .00 | 11.93 | 5.78 | 1.90 | 31.58 | 1854.34 |
| SCOLECITHRICELLA MINOR | .53 | 2.97 | .00 | 1.08 | 2.67 | 18.95 | 1.78 | 1.33 | 2.11 | 1909.73 |
| SPINOCALANUS ABYSSALLIS | 6.53 | 4.32 | .00 | 3.50 | 5.33 | 4.91 | 2.44 | 1.90 | .00 | 1470.88 |
| SPINOCALANUS SP. | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | 52.63 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .19 | .00 | 5.71 |
| UNID/DAM/EXO COPEPOD | 7.59 | 8.64 | 8.75 | 2.15 | 9.33 | 7.72 | 8.89 | 12.38 | 44.21 | 3880.14 |
| UNIDENTIFIED HARPACTICOID | .00 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 13.50 |
| COPEPOD NAUPLII | .00 | .00 | .17 | .00 | 1.33 | 1.40 | .67 | .57 | 16.84 | 550.83 |
| AMPHIPODA EGGS | .00 | .00 | .17 | .00 | .00 | 7.72 | .00 | .00 | .00 | 587.20 |
| PARATHEMISTO SP. | .53 | .00 | .00 | .00 | .00 | .70 | .00 | .19 | .00 | 84.84 |
| MYSID | .00 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | 8.25 |
| M. NORVEGICA CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.11 | 42.11 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .27 | .00 | .00 | .00 | .00 | .00 | 13.45 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .17 | .00 | .00 | .70 | .44 | .57 | 10.53 | 299.66 |
| EUPHAUSIID EGGS | .00 | .00 | .00 | .54 | .00 | .00 | .22 | .38 | 2.11 | 85.98 |

TOW 23 26/09/85 1730H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | | | | NUMBER PER CUBIC METER | | | | | | #/M2 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.32 | 126.32 |
| DAMAGED FURCILIAE | .00 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 13.50 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.10 | 2.11 | 104.96 |
| SAGITTA SETOSA | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | 52.63 |
| FRITILLARIA SP. | .00 | .00 | .33 | .00 | .00 | .00 | .00 | .00 | 6.32 | 142.82 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIPHIDAE | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .313 |
| UNIDENTIFIED SIPHONOPHORE | .013 | .000 | .000 | .000 | .006 | .020 | .000 | .000 | .000 | 2.455 |
| UNIDENTIFIED MEDUSA | .000 | .000 | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .210 |
| CTENOPHORA | .007 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .542 |
| AMPHIPODA | .007 | .004 | .007 | .008 | .013 | .033 | .028 | .000 | .000 | 5.110 |
| PARATHEMISTO GAUDICHAUDII | .007 | .004 | .007 | .008 | .013 | .033 | .028 | .000 | .000 | 5.110 |
| MYSIDACEA | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .313 |
| BOREOMYSIS SP. | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .313 |
| EUPHAUSIACEA | .026 | .030 | .018 | .021 | .019 | .020 | .306 | 1.571 | .053 | 63.006 |
| MEGANYCTIPHANES NORVEGICA | .000 | .025 | .011 | .000 | .000 | .000 | .000 | .000 | .000 | 1.807 |
| NEMATOSCELIS MEGALOPS | .000 | .000 | .000 | .013 | .000 | .000 | .000 | .000 | .000 | .630 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .029 | .000 | .857 |
| THYSANOESSA LONGICAUDATA | .013 | .004 | .004 | .008 | .019 | .007 | .306 | 1.543 | .053 | 57.882 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .013 | .000 | .004 | .000 | .000 | .013 | .000 | .000 | .000 | 1.830 |
| DECAPODA | .007 | .025 | .058 | .008 | .019 | .000 | .028 | .000 | .000 | 6.537 |
| PASIPHAEA SP. | .007 | .021 | .058 | .000 | .019 | .000 | .028 | .000 | .000 | 5.906 |
| SERGESTES SP. | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .211 |
| UNIDENTIFIED DECAPOD | .000 | .000 | .000 | .008 | .000 | .000 | .000 | .000 | .000 | .420 |
| CHAETOGNATHA | .046 | .030 | .025 | .021 | .094 | .671 | .389 | .143 | .079 | 76.712 |
| EUKHRONIA HAMATA | .046 | .025 | .022 | .013 | .088 | .197 | .000 | .000 | .053 | 25.527 |
| SAGITTA ELEGANS | .000 | .000 | .000 | .008 | .006 | .454 | .389 | .143 | .026 | 49.313 |
| SAGITTA MAXIMA | .000 | .000 | .000 | .000 | .000 | .020 | .000 | .000 | .000 | 1.480 |
| UNIDENTIFIED CHAETOGNATH | .000 | .004 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .391 |
| PICES | .000 | .000 | .007 | .000 | .000 | .000 | .000 | .000 | .000 | .361 |
| BENTHOSEMA GLACIALE | .000 | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .181 |
| CYCLOTHONE SP. | .000 | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .181 |

| TOW 24 26/09/85 2300H | 45 18.03 N | 57 02.18 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| DEPTH1 (M) | 400.0 | 300.0 | 250.0 | 200.0 | 100.0 | 50.0 | 30.0 | 10.0 | |
| DEPTH2 (M) | 300.0 | 250.0 | 200.0 | 100.0 | 50.0 | 30.0 | 10.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 353. | 233. | 215. | 349. | 107. | 23. | 16. | 26. | |
| TOTAL BIOMASS (G/M3) | .051 | .025 | .057 | .020 | .067 | .208 | .270 | 2.490 | 48.932 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .001 | .002 | .002 | .054 | .134 | .255 | 2.131 | |
| SIPHONOPHORA | .18 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 20.99 |
| LIMACINA BULIMOIDES | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | 3.74 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .18 | .00 | .00 | .06 | .66 | 26.21 |
| LIMACINA SP. | .18 | .06 | .37 | .83 | .37 | .29 | .00 | .00 | 146.71 |
| GYMNOSOMATA | .00 | .00 | .00 | .37 | .00 | .29 | .00 | .00 | 42.58 |
| BIVALVE LARVAE | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | 3.74 |
| TOMOPTERIS SP. | .00 | .00 | .12 | .00 | .00 | .00 | .00 | .00 | 6.20 |
| CONCHOECIA BOREALIS | .00 | .00 | .00 | .37 | .00 | .00 | .00 | .00 | 36.68 |
| CONCHOECIA CURTA | .18 | .17 | .12 | .73 | .00 | .59 | .00 | .44 | 122.48 |
| CONCHOECIA OBTUSATA | .00 | .00 | .00 | .46 | .00 | .00 | .00 | .00 | 45.85 |
| CONCHOECIA SPINIFERA | .00 | .00 | .00 | .37 | .15 | .00 | .00 | .22 | 46.36 |
| CONCHOECIA SPINIROSTRIS | .54 | 1.72 | .74 | .00 | .00 | .59 | .00 | .00 | 189.24 |
| CONCHOECIA SP. | .00 | .34 | .00 | .18 | .00 | .88 | .00 | .00 | 53.20 |
| AETIDEUS ARMATUS | .00 | .06 | .74 | .37 | .07 | .00 | .06 | .00 | 81.74 |
| CALANUS FINMARCHICUS-TOTAL | 13.24 | 2.69 | 9.18 | 4.77 | 4.34 | 15.34 | 4.56 | 37.95 | 3388.03 |
| CALANUS FINMARCHICUS (D) | .00 | .06 | .00 | .09 | .07 | .88 | .13 | 1.54 | 51.41 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .30 | .88 | .25 | 7.50 | 112.67 |
| CALANUS FINMARCHICUS (S) | .18 | .00 | .37 | .18 | .00 | .59 | .19 | 2.43 | 94.89 |
| CALANUS FINMARCHICUS VIM | .00 | .11 | .00 | .46 | .00 | .29 | .06 | 1.54 | 74.16 |
| CALANUS FINMARCHICUS VIF | .18 | .06 | .37 | .28 | .37 | 2.36 | .56 | 11.47 | 258.97 |
| CALANUS FINMARCHICUS V | 9.43 | 1.49 | 6.57 | 3.12 | 1.42 | 3.24 | 1.06 | 7.50 | 1889.79 |
| CALANUS FINMARCHICUS IV | 3.63 | .86 | 1.98 | .83 | 1.57 | 5.01 | .94 | 11.03 | 895.14 |
| CALANUS FINMARCHICUS III | .00 | .06 | .25 | .09 | .75 | 3.24 | .50 | 4.85 | 185.25 |
| CALANUS FINMARCHICUS II | .00 | .06 | .00 | .00 | .00 | .88 | .75 | 1.32 | 48.80 |
| CALANUS FINMARCHICUS I | .00 | .06 | .00 | .00 | .22 | .29 | .69 | .22 | 35.93 |
| CALANUS GLACIALIS (S) | .18 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 20.99 |
| CALANUS GLACIALIS VIF | .18 | .06 | .00 | .00 | .00 | .00 | .00 | .00 | 20.99 |
| CALANUS GLACIALIS V | 5.62 | .63 | 2.11 | .55 | .37 | .88 | .00 | 1.54 | 805.79 |
| CALANUS GLACIALIS IV | 1.81 | .11 | .87 | .09 | .00 | .00 | .00 | .22 | 241.81 |
| CALANUS GLACIALIS III | .00 | .11 | .00 | .09 | .00 | .00 | .00 | .00 | 14.89 |
| CALANUS HYPERBOREUS-TOTAL | 3.44 | .29 | 1.98 | .00 | .15 | .00 | .06 | .00 | 466.73 |
| CALANUS HYPERBOREUS V | .73 | .06 | .37 | .00 | .00 | .00 | .06 | .00 | 95.24 |
| CALANUS HYPERBOREUS IV | 2.72 | .23 | 1.49 | .00 | .15 | .00 | .00 | .00 | 365.29 |
| CALANUS SP. | 3.44 | 2.63 | 8.81 | .55 | 1.20 | 5.90 | .69 | 14.12 | 1304.18 |
| CALANUS MINOR | .00 | .00 | .00 | .00 | .00 | .29 | .06 | .00 | 7.15 |
| CENTROPAGES TYPICUS | .00 | .00 | .00 | .00 | .07 | .29 | .00 | .00 | 9.64 |
| CLAUSOCALANUS ARCUICORNIS | .00 | .11 | .00 | .00 | .00 | .00 | .00 | .00 | 5.72 |
| CLAUSOCALANUS FURCATUS | .00 | .11 | .00 | .28 | .22 | .29 | .06 | .00 | 51.59 |
| CYMBASOMA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | 1.25 |
| EUCHEATA NORVEGICA | .54 | .11 | .25 | .00 | .07 | .00 | .13 | .22 | 80.96 |
| EUCHEATA SP. | .18 | .06 | .00 | .28 | .00 | .00 | .00 | .00 | 48.50 |
| GAIDIUS TENUISPINUS | 1.09 | .52 | 1.12 | .73 | .07 | 1.18 | .00 | .22 | 293.24 |
| METRIDIA LONGA | 2.72 | .46 | .99 | .55 | 1.27 | 7.37 | .69 | 1.10 | 635.30 |
| METRIDIA LUCENS | 3.63 | 1.72 | 2.85 | 4.40 | 2.99 | 10.91 | 1.81 | 5.07 | 1486.01 |
| METRIDIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | 1.81 | .00 | 36.25 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .12 | .00 | .00 | .00 | .00 | .00 | 6.20 |
| OITHONA ATLANTICA | .18 | .29 | .50 | 1.83 | .07 | 1.18 | .06 | .00 | 269.21 |
| OITHONA SIMILIS | .73 | .46 | .99 | .83 | .37 | 1.18 | 1.38 | 1.10 | 308.37 |
| PARACALANUS PARVUS | .00 | .06 | .00 | .09 | .00 | .00 | .00 | .00 | 12.03 |
| PLEUROMAMMA ROBUSTA | .18 | .17 | .00 | .00 | .00 | .00 | .06 | .00 | 27.96 |
| PLEUROMAMMA SP. | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .00 | 9.17 |
| PSEUDOCALANUS MINUTUS | .36 | .40 | .00 | .09 | .60 | 2.95 | .19 | .22 | 160.32 |
| SCOLECITHRICELLA MINOR | .91 | .74 | .99 | 3.76 | 1.87 | 5.31 | .31 | .22 | 761.50 |
| SPINOCALANUS ABYSSALLIS | 4.53 | 1.77 | 1.12 | 5.32 | 3.44 | 25.96 | .25 | .00 | 1825.71 |
| TEMORA LONGICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | 1.25 |
| UNID/DAM/EXO COPEPOD | 3.44 | 3.43 | 5.95 | 3.39 | 5.76 | 27.73 | 3.75 | 16.11 | 2231.56 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .29 | .00 | .22 | 8.11 |
| M. NORVEGICA CALYPTOSIS | .00 | .00 | .00 | .09 | .00 | .29 | .00 | .00 | 15.07 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | 3.74 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | 1.12 | 2.36 | .06 | .00 | 104.52 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .46 | .37 | 1.18 | .13 | .00 | 90.64 |
| EUPHAUSIID EGGS | .00 | .06 | .00 | .00 | .07 | .29 | 1.06 | 1.10 | 44.78 |
| DAMAGED FURCILIAE | .00 | .00 | .12 | .00 | .15 | 2.06 | .06 | .00 | 56.23 |
| DECAPOD LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | 1.25 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .06 | .00 | 1.25 |
| SAGITTA SP. | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | 7.48 |

TOW 24 26/09/85 2300H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
|---|---|---|---|---|---|---|---|---|---|
| L A R G E M E S O Z O O P L A N K T O N & I C H T H Y O P L A N K T O N | | | | | | | | | |
| DIPHIDAE | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .573 |
| UNIDENTIFIED SIPHONOPHORE | .006 | .000 | .000 | .000 | .019 | .000 | .000 | .000 | 1.501 |
| CTENOPHORA | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .283 |
| AMPHIPODA | .000 | .004 | .000 | .006 | .019 | .000 | .063 | .039 | 3.358 |
| PARATHEMISTO GAUDICHAUDII | .000 | .004 | .000 | .006 | .019 | .000 | .063 | .039 | 3.358 |
| EUPHAUSIACEA | .045 | .056 | .107 | .195 | 4.897 | 11.195 | 2.063 | 10.541 | 647.564 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .009 | .000 | .056 | .221 | 1.500 | 10.425 | 141.941 |
| NEMATOSCELIS MEGALOPS | .003 | .013 | .019 | .003 | .000 | .000 | .000 | .000 | 2.144 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .006 | .047 | .133 | .000 | .000 | 5.564 |
| THYSANOESSA LONGICAUDATA | .042 | .043 | .079 | .186 | 4.794 | 10.841 | .563 | .116 | 497.915 |
| DECAPODA | .031 | .013 | .033 | .000 | .000 | .000 | .000 | .000 | 5.388 |
| PASIPHAEA SP. | .006 | .009 | .019 | .000 | .000 | .000 | .000 | .000 | 1.926 |
| SERGESTES SP. | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .283 |
| IMMATURE DECAPOD | .020 | .004 | .014 | .000 | .000 | .000 | .000 | .000 | 2.895 |
| UNIDENTIFIED DECAPOD | .003 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .283 |
| CHAETOGNATHA | .091 | .056 | .163 | .438 | .150 | .177 | .063 | .000 | 76.100 |
| EUKHRONIA HAMATA | .076 | .039 | .135 | .221 | .019 | .088 | .000 | .000 | 41.092 |
| SAGITTA ELEGANS | .000 | .004 | .019 | .215 | .131 | .088 | .063 | .000 | 32.197 |
| SAGITTA MAXIMA | .014 | .004 | .009 | .003 | .000 | .000 | .000 | .000 | 2.383 |
| PICES | .003 | .004 | .005 | .000 | .000 | .000 | .000 | .000 | .730 |
| BENTHOSEMA GLACIALE | .003 | .004 | .005 | .000 | .000 | .000 | .000 | .000 | .730 |

| TOW 25 27/09/85 0930H | 44 41.29 N 56 30.33 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 365.0 | 300.0 | 250.0 | 200.0 | 150.0 | 100.0 | 50.0 | 30.0 | 10.0 | |
| DEPTH2 (M) | 300.0 | 250.0 | 200.0 | 150.0 | 100.0 | 50.0 | 30.0 | 10.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 198. | 211. | 231. | 194. | 138. | 81. | 25. | 30. | 17. | |
| TOTAL BIOMASS (G/M3) | .052 | .032 | .040 | .028 | .015 | .027 | .038 | .013 | .053 | 11.984 |
| EUPHAUSIACEA BIOMASS (G/M3) | .002 | .006 | .002 | .005 | .000 | .013 | .207 | .000 | .018 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| RADIOLARIAN | .16 | .15 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 19.44 |
| FORAMINIFERA | .00 | .00 | .00 | .00 | .00 | .00 | .27 | .17 | .00 | 8.71 |
| LIMACINA BULIMOIDES | .00 | .00 | .87 | .00 | .00 | .00 | .00 | .08 | .00 | 44.95 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .21 | .00 | .00 | .00 | .17 | .20 | 15.60 |
| LIMACINA INFLATA | .00 | .76 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 42.88 |
| LIMACINA LESUEURII | .00 | .61 | .00 | .41 | .00 | .00 | .00 | .00 | .00 | 50.95 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .35 | .82 | .00 | .00 | .00 | .00 | .00 | 58.55 |
| GYMNOSOMATA | .00 | .15 | .69 | 2.06 | .87 | .10 | .13 | .17 | .40 | 203.89 |
| TOMOPTERIS SP. | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .00 | 7.27 |
| CONCHOECIA BOREALIS | .00 | .00 | .00 | .21 | .00 | .00 | .00 | .00 | .00 | 10.31 |
| CONCHOECIA CURTA | .48 | .00 | .00 | 1.44 | 2.18 | .20 | .00 | .08 | .40 | 228.33 |
| CONCHOECIA ELEGANS | .16 | .15 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | 26.75 |
| CONCHOECIA OBTUSATA | .00 | .00 | .00 | .00 | 1.75 | .10 | .07 | .00 | .00 | 93.59 |
| CONCHOECIA SPINIFERA | 1.78 | .91 | .87 | .00 | .00 | .00 | .07 | .33 | .40 | 216.28 |
| CONCHOECIA ROTUNDATA | .32 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 21.01 |
| CONCHOECIA SPINIROSTRIS | .00 | .15 | .00 | .82 | .15 | .10 | .13 | .17 | .00 | 67.07 |
| CONCHOECIA SP. | .32 | .15 | .52 | 1.03 | .00 | .00 | .00 | .00 | .00 | 106.11 |
| CONCHOECIA-DAMAGED | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.58 |
| ACARTIA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .20 | 1.98 |
| AETIDEUS ARMATUS | .00 | .00 | .35 | 1.24 | .00 | .00 | .13 | .08 | .20 | 85.51 |
| CALANUS FINMARCHICUS-TOTAL | 15.52 | 6.82 | 4.50 | 1.86 | 3.64 | 4.77 | 6.61 | 4.64 | 8.33 | 2396.24 |
| CALANUS FINMARCHICUS (D) | .00 | .00 | .00 | .00 | .00 | .50 | .27 | .17 | .20 | 35.54 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .15 | .40 | .20 | .25 | .20 | 38.15 |
| CALANUS FINMARCHICUS (S) | .16 | .30 | .35 | .00 | .00 | .00 | .27 | .17 | .40 | 55.66 |
| CALANUS FINMARCHICUS VIM | .00 | .00 | .00 | .00 | .29 | .30 | .13 | .17 | .00 | 35.46 |
| CALANUS FINMARCHICUS VIF | .16 | .30 | .35 | .00 | .15 | .89 | .74 | .58 | .79 | 129.35 |
| CALANUS FINMARCHICUS V | 11.47 | 3.94 | 2.25 | .62 | 2.33 | 1.69 | 1.75 | 1.82 | 4.37 | 1402.49 |
| CALANUS FINMARCHICUS IV | 3.56 | 2.27 | 1.56 | .82 | .73 | 1.09 | 1.62 | .99 | 1.59 | 623.17 |
| CALANUS FINMARCHICUS III | .32 | .30 | .35 | .41 | .15 | .40 | .81 | .41 | .60 | 131.68 |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | .00 | .00 | .30 | 1.35 | .25 | .79 | 54.80 |
| CALANUS FINMARCHICUS I | .00 | .00 | .00 | .00 | .00 | .10 | .20 | .41 | .20 | 19.28 |
| CALANUS GLACIALIS (D) | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.58 |
| CALANUS GLACIALIS VIF | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.58 |
| CALANUS GLACIALIS V | 2.26 | .76 | .52 | .00 | .00 | .20 | .20 | .41 | .20 | 235.21 |
| CALANUS GLACIALIS IV | 1.13 | 1.06 | .69 | .00 | .15 | .10 | .07 | .00 | .00 | 174.84 |
| CALANUS GLACIALIS III | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| CALANUS HYPERBOREUS-TOTAL | 3.23 | .76 | .35 | .00 | .00 | .00 | .13 | .25 | .20 | 274.98 |
| CALANUS HYPERBOREUS V | 1.78 | .45 | .17 | .00 | .00 | .00 | .07 | .17 | .00 | 151.62 |
| CALANUS HYPERBOREUS IV | 1.45 | .30 | .17 | .00 | .00 | .00 | .07 | .08 | .20 | 123.36 |
| CLAUSOCALANUS ARCUICORNIS | .00 | .00 | .00 | .00 | 10.76 | .60 | .00 | .00 | 3.37 | 601.73 |
| CLAUSOCALANUS FURCATUS | .00 | .30 | 2.25 | 10.72 | .00 | .10 | .34 | .25 | 1.98 | 700.33 |
| CLYTEMENSTRA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .13 | .00 | .00 | 2.70 |
| CONAEA SP. | .00 | .00 | .17 | .21 | .00 | .00 | .00 | .00 | .00 | 18.97 |
| EUAETIDEUS GIESBRECHTI | .00 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | 8.66 |
| EUCHEATA NORVEGICA | .48 | .15 | .17 | .00 | .00 | .00 | .00 | .00 | .20 | 49.74 |
| EUCHAETA TONSA | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| EUCHEATA SP. | .00 | .15 | .00 | .41 | .87 | 1.19 | .00 | .00 | .00 | 131.47 |
| EUCHIRELLA SP. | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.58 |
| GAIDIUS TENUISPINUS | .32 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 21.01 |
| HETERORHABDUS PAPILLIGER | .00 | .00 | .00 | .21 | .00 | .00 | .00 | .00 | .00 | 10.31 |
| MECYNOCERA CLAUSI | .00 | .00 | .00 | .00 | .00 | .00 | .07 | 2.73 | .20 | 57.97 |
| METRIDIA LONGA | 3.23 | .91 | .87 | 2.89 | .29 | .20 | .27 | .33 | .79 | 487.66 |
| METRIDIA LUCENS | 1.78 | 7.28 | 4.16 | 1.44 | 1.16 | .40 | .67 | .50 | .79 | 868.92 |
| METRIDIA SP. | .00 | 1.36 | 7.62 | 11.55 | 12.07 | 4.67 | .74 | 1.24 | 3.77 | 1941.07 |
| MICROCALANUS PYGMAEUS | .32 | .15 | 1.21 | .00 | .29 | .00 | .00 | .08 | .00 | 105.40 |
| MICROSTELLA SP. | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| NANNOCALANUS MINOR | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .40 | 5.62 |
| OITHONA ATLANTICA | .48 | 1.21 | 9.00 | 3.71 | 13.96 | 3.18 | .61 | 1.32 | .99 | 1633.71 |
| OITHONA SIMILIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .83 | 12.90 | 145.52 |
| PARACALANUS PARVUS | .00 | .00 | .00 | .00 | .00 | .00 | 3.31 | 4.97 | 17.26 | 338.08 |
| PLEUROMAMMA ROBUSTA | .16 | 1.52 | .69 | .00 | .00 | .00 | .13 | .08 | .40 | 129.29 |
| PLEUROMAMMA SP. | .00 | .00 | .35 | .00 | .15 | .00 | .00 | .00 | .00 | 24.59 |
| PSEUDOCALANUS MINUTUS | 2.91 | 3.94 | 2.94 | 2.27 | 2.47 | 10.14 | .20 | .25 | 3.37 | 1320.05 |
| SCOLECITHRICELLA MINOR | 2.10 | 4.40 | 2.42 | 7.42 | 6.69 | .10 | .27 | .91 | .99 | 1221.86 |
| SCOLECITHRICELLA SP. | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| SPINOCALANUS SP. | 1.29 | 1.82 | .69 | .00 | .00 | .00 | .00 | .00 | .00 | 209.67 |
| UNID/DAM/EXO COPEPOD | 1.62 | 2.43 | 13.33 | 1.44 | 5.53 | 4.37 | 4.72 | 7.45 | 11.51 | 1818.76 |

TOW 25 27/09/85 0930H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| COPEPOD NAUPLII | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| PARATHEMISTO GAUDICHAUDI | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 1.35 |
| PARATHEMISTO-IMMATURE | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.51 |
| ISOPOD | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 4.97 |
| EUPHAUSIID EGGS | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.58 |
| EUPHAUSIID NAUPLII | .16 | .30 | .00 | .00 | 1.16 | 1.99 | .07 | .08 | .00 | 186.24 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | 1.66 |
| ECHINODERMATA-LARVAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | 1.66 |
| SAGITTA SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .20 | 1.98 |
| EUKRONIA SP. | .00 | .00 | .00 | .21 | .00 | .00 | .07 | .00 | .20 | 13.64 |
| OIKOPLEURA SP. | .00 | .00 | .00 | .00 | .29 | .20 | .00 | .00 | .00 | 24.48 |
| FRITILLARIA SP. | .00 | .00 | .00 | .00 | 1.16 | .10 | .13 | .00 | .00 | 65.85 |
| FISH EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 1.35 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .005 | .000 | .000 | .000 | .007 | .000 | .000 | .000 | .000 | .692 |
| TOMOPTERIS SP. | .000 | .005 | .000 | .005 | .007 | .000 | .000 | .000 | .000 | .858 |
| EUPHAUSIACEA | .141 | .351 | .165 | .113 | .022 | .137 | 2.348 | .033 | .298 | 99.148 |
| EUPHAUSIA KROHNII | .000 | .270 | .152 | .021 | .000 | .000 | .000 | .000 | .000 | 22.114 |
| MEGANYCTIPHANES NORVEGICA | .005 | .014 | .000 | .036 | .000 | .075 | .000 | .000 | .119 | 7.760 |
| NEMATOSCELIS MEGALOPS | .015 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .000 | 1.243 |
| THYSANOESSA INERMIS | .000 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .237 |
| THYSANOESSA LONGICAUDATA | .121 | .028 | .009 | .000 | .022 | .000 | 2.348 | .033 | .179 | 60.236 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .033 | .004 | .052 | .000 | .062 | .000 | .000 | .000 | 7.558 |
| DECAPODA | .051 | .000 | .009 | .005 | .000 | .000 | .000 | .000 | .000 | 3.973 |
| PASIPHAEA SP. | .015 | .000 | .009 | .005 | .000 | .000 | .000 | .000 | .000 | 1.675 |
| SERGESTES SP. | .025 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 1.641 |
| IMMATURE DECAPOD | .010 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .657 |
| CHAETOGNATHA | .086 | .123 | .078 | .526 | 1.120 | .497 | .081 | .364 | .000 | 131.676 |
| EUKHRONIA HAMATA | .076 | .000 | .074 | .505 | 1.055 | .199 | .040 | .000 | .000 | 97.337 |
| SAGITTA ELEGANS | .000 | .081 | .004 | .005 | .036 | .273 | .000 | .364 | .000 | 27.270 |
| SAGITTA MAXIMA | .010 | .043 | .000 | .015 | .029 | .025 | .040 | .000 | .000 | 7.069 |

| TOW 27 27/09/85 1530H | 44 22.68 N 56 14.02 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 1427.0 | 1350.0 | 1250.0 | 1200.0 | 1100.0 | 1050.0 | 950.0 | 850.0 | 750.0 | |
| DEPTH2 (M) | 1350.0 | 1250.0 | 1200.0 | 1100.0 | 1050.0 | 950.0 | 850.0 | 750.0 | 650.0 | |
| VOLUME OF WATER SAMPLED (M3) | 167. | 267. | 159. | 344. | 181. | 234. | 122. | 69. | 86. | |
| TOTAL BIOMASS (G/M3) | .020 | .021 | .043 | .037 | .045 | .036 | .041 | .071 | .105 | 36.960 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .000 | .003 | .000 | .001 | .002 | .001 | .002 | .000 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| MEDUSA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | 3.88 |
| SIPHONOPHORA | .00 | .00 | .18 | .05 | .00 | .10 | .15 | .00 | .00 | 38.66 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 9.77 |
| LIMACINA LESUEURII | .00 | .01 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | 2.42 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .92 |
| GYMNOSOMATA | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .03 | .04 | 8.27 |
| POLYCHAETA LARVAE | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .19 | 20.30 |
| TOMOPTERIS SP. | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| CONCHOECIA AMETRA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | 3.88 |
| CONCHOECIA BOREALIS | .00 | .00 | .09 | .03 | .04 | .39 | .00 | .14 | .12 | 74.19 |
| CONCHOECIA OBTUSATA | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 3.00 |
| CONCHOECIA SPINIFERA | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 9.77 |
| CONCHOECIA SPINIROSTRIS | .00 | .00 | .00 | .03 | .00 | .10 | .00 | .00 | .00 | 12.35 |
| CONCHOECIA SP. | .03 | .00 | .00 | .13 | .04 | .59 | .04 | .14 | .31 | 124.82 |
| CONCHOECIA-DAMAGED | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .00 | 3.64 |
| HALOCYPRIS GLOBOSA | .00 | .01 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | 6.07 |
| AETIDEUS ARMATUS | .00 | .03 | .00 | .05 | .02 | .10 | .00 | .03 | .00 | 21.75 |
| AMALLOTHRIX SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | 3.88 |
| BATHYCALANUS RICHARDI | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 4.40 |
| CALANUS FINMARCHICUS-TOTAL | 1.68 | .76 | 5.21 | .98 | 1.42 | 3.13 | 1.68 | 2.43 | 1.28 | 1486.86 |
| CALANUS FINMARCHICUS (D) | .12 | .06 | .09 | .00 | .11 | .00 | .04 | .00 | .00 | 28.96 |
| CALANUS FINMARCHICUS (S) | .12 | .04 | .18 | .00 | .06 | .49 | .07 | .09 | .12 | 102.08 |
| CALANUS FINMARCHICUS VIF | .24 | .10 | .27 | .00 | .17 | .49 | .11 | .09 | .12 | 131.03 |
| CALANUS FINMARCHICUS V | 1.35 | .64 | 4.76 | .96 | 1.20 | 2.54 | 1.46 | 2.23 | 1.12 | 1296.75 |
| CALANUS FINMARCHICUS IV | .09 | .01 | .18 | .03 | .06 | .10 | .11 | .09 | .04 | 56.18 |
| CALANUS FINMARCHICUS I | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.90 |
| CALANUS GLACIALIS (D) | .00 | .00 | .00 | .00 | .00 | .20 | .00 | .00 | .00 | 19.54 |
| CALANUS GLACIALIS (S) | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| CALANUS GLACIALIS VIF | .03 | .00 | .00 | .00 | .00 | .20 | .00 | .00 | .00 | 21.84 |
| CALANUS GLACIALIS V | .12 | .03 | .18 | .03 | .06 | .39 | .11 | .14 | .04 | 95.08 |
| CALANUS GLACIALIS IV | .06 | .01 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 9.01 |
| CALANUS GLACIALIS III | .00 | .00 | .00 | .03 | .00 | .10 | .04 | .03 | .04 | 22.77 |
| CALANUS HYPERBOREUS-TOTAL | 1.08 | .85 | 1.56 | .93 | .77 | 1.86 | 1.42 | 1.83 | 1.36 | 1023.78 |
| CALANUS HYPERBOREUS (D) | .03 | .09 | .00 | .00 | .06 | .00 | .04 | .09 | .04 | 30.27 |
| CALANUS HYPERBOREUS (S) | .03 | .12 | .09 | .16 | .07 | .10 | .22 | .41 | .04 | 114.13 |
| CALANUS HYPERBOREUS VIF | .06 | .21 | .09 | .16 | .13 | .10 | .26 | .49 | .08 | 144.40 |
| CALANUS HYPERBOREUS V | .30 | .34 | .46 | .34 | .33 | .29 | .69 | .72 | .58 | 359.67 |
| CALANUS HYPERBOREUS IV | .63 | .28 | .91 | .39 | .29 | 1.27 | .44 | .58 | .66 | 470.67 |
| CALANUS SP. | 1.17 | 1.02 | 9.88 | .47 | .24 | .20 | .51 | 1.77 | .70 | 1061.38 |
| CHIRIDIUS ARMATUS | .00 | .00 | .00 | .10 | .00 | .00 | .07 | .14 | .00 | 32.11 |
| CHIRIDIUS GRACILIS | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.50 |
| CLAUSOCALANUS FURCATUS | .06 | .01 | .55 | .16 | .17 | .59 | .07 | .09 | .04 | 135.81 |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.90 |
| EUAUGAPTILIS MAGNUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.90 |
| EUCALANUS ATTENUATUS | .03 | .03 | .09 | .08 | .02 | .29 | .04 | .03 | .00 | 54.39 |
| EUCALANUS ELONGATUS | .00 | .04 | .00 | .10 | .02 | .10 | .11 | .12 | .08 | 55.79 |
| EUCHEATA NORVEGICA | .03 | .04 | .27 | .05 | .18 | .98 | .55 | .84 | .54 | 325.54 |
| EUCHAETA TONSA | .00 | .03 | .18 | .05 | .13 | .59 | .29 | .49 | .39 | 199.54 |
| EUCHEATA SP. | .00 | .00 | .00 | .05 | .04 | .29 | .07 | .06 | .04 | 53.27 |
| GAETANUS KRUPPII | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .03 | .00 | 3.82 |
| GAETANUS PILEATUS | .00 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | 4.57 |
| GAIDIUS TENUISPINUS | .12 | .03 | .46 | .00 | .00 | .68 | .00 | .14 | .16 | 133.46 |
| GAIDIUS BREVISPINUS | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .92 |
| HALOPTILUS SP. | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| LOPHOTHRIX FRONTALIS | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .92 |
| LUBBOCKIA SQUILLIMANA | .00 | .01 | .18 | .05 | .00 | .10 | .00 | .03 | .00 | 28.48 |
| LUCICUTIA FLAVICORNIS | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 7.29 |
| LUCICUTIA OVALIS | .06 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 4.61 |
| LUCICUTIA TENUICAUDATA | .06 | .00 | .00 | .05 | .04 | .00 | .07 | .00 | .00 | 18.91 |
| MEGACALANUS PRINCEPS | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| METRIDIA LONGA | .27 | .09 | 1.92 | .26 | .24 | 1.07 | .55 | .67 | .27 | 419.49 |
| METRIDIA LUCENS | .57 | .15 | 1.83 | .62 | .57 | 2.15 | .80 | 1.42 | 1.20 | 798.05 |
| METRIDIA VENUSTA | .42 | .12 | .18 | .16 | .02 | .20 | .04 | .14 | .89 | 196.65 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | 2.58 |
| OITHONA ATLANTICA | .00 | .00 | .55 | .08 | .04 | .00 | .00 | .00 | .00 | 37.04 |
| OITHONA SIMILIS | .00 | .01 | .18 | .05 | .02 | .00 | .11 | .03 | .04 | 34.44 |
| OITHONA SP. | .84 | .22 | .00 | .00 | .00 | .00 | .00 | .00 | .39 | 125.78 |

TOW 27 27/09/85 1530H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | | | | NUMBER PER CUBIC METER | | | | | | #/M2 |
| ONCAEA BOREALIS | .33 | .19 | 1.01 | .47 | .15 | 2.54 | .04 | .03 | .19 | 428.92 |
| ONCAEA SP. | .00 | .00 | 1.83 | .75 | .07 | 1.27 | .04 | .03 | .00 | 303.63 |
| ONCHOCALANUS TRIGONICEPS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.90 |
| PARACALANUS PARVUS | .00 | .00 | .27 | .00 | .00 | .00 | .18 | .09 | .00 | 40.63 |
| PLEUROMAMMA ROBUSTA | .00 | .00 | .00 | .03 | .00 | .00 | .04 | .03 | .00 | 9.13 |
| PSEUDOCALANUS MINUTUS | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| PSEUDOCHIRELLA OBTUSATA | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| RHINCALANUS CORNUTUS | .03 | .00 | .09 | .00 | .02 | .10 | .00 | .03 | .12 | 32.09 |
| RHINCALANUS NASUTUS | .00 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | 6.87 |
| SCAPHOCALANUS MAGNUS | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | 7.29 |
| SCAPHOCALANUS MEDIUS | .27 | .15 | .46 | .18 | .00 | .98 | .07 | .00 | .08 | 189.41 |
| SCAPHOCALANUS SP. | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 2.31 |
| SCOLECITHRICELLA MINOR | .00 | .00 | .18 | .05 | .09 | .00 | .00 | .03 | .00 | 21.82 |
| SCOLECITHRICELLA SP. | .00 | .00 | .18 | .00 | .00 | .00 | .00 | .00 | .04 | 13.02 |
| SPINOCALANUS ABYSSALLIS | .39 | .06 | .18 | .26 | .07 | 1.95 | .04 | .17 | .31 | 322.04 |
| SPINOCALANUS SP. | .18 | .00 | .00 | .03 | .00 | .20 | .00 | .00 | .00 | 35.95 |
| TEMORITES BREVIS | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 | 2.58 |
| UNID/DAM/EXO COPEPOD | 3.02 | 1.84 | 9.79 | 2.76 | 1.58 | 7.81 | 2.08 | 4.55 | 4.26 | 3132.73 |
| AMPHIPODA EGGS | .00 | .00 | .00 | .00 | .00 | .00 | .87 | .00 | .27 | 114.56 |
| UNIDENTIFIED GAMMARID | .00 | .00 | .00 | .00 | .02 | .00 | .04 | .09 | .00 | 13.26 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .06 | .00 | 6.72 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | 9.77 |
| EUPHAUSIID NAUPLII | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .19 | 19.38 |
| DAMAGED FURCILIAE | .06 | .01 | .09 | .05 | .09 | .20 | .04 | .09 | .04 | 56.21 |
| EUKRONIA HAMATUS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | 2.90 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .000 | .007 | .000 | .003 | .006 | .004 | .000 | .000 | .000 | 1.743 |
| PERIPHYLLA | .000 | .000 | .000 | .003 | .006 | .000 | .008 | .000 | .000 | 1.387 |
| UNIDENTIFIED MEDUSA | .000 | .004 | .000 | .003 | .000 | .000 | .000 | .000 | .000 | .665 |
| UNIDENTIFIED POLYCHAET | .006 | .000 | .000 | .000 | .000 | .004 | .000 | .000 | .000 | .888 |
| TOMOPTERIS SP. | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .000 | .000 | .291 |
| AMPHIPODA | .000 | .007 | .000 | .003 | .000 | .009 | .008 | .000 | .012 | 3.877 |
| PARATHEMISTO GAUDICHAUDII | .000 | .007 | .000 | .003 | .000 | .009 | .008 | .000 | .000 | 2.714 |
| UNIDENTIFIED GAMMARID | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .012 | 1.163 |
| MYSIDACEA | .006 | .004 | .013 | .006 | .017 | .021 | .033 | .043 | .035 | 16.126 |
| BOREOMYSIS SP. | .000 | .000 | .013 | .003 | .011 | .021 | .033 | .014 | .023 | 10.662 |
| EUCOPIA SP. | .006 | .004 | .000 | .003 | .006 | .000 | .000 | .029 | .012 | 5.464 |
| EUPHAUSIACEA | .048 | .064 | .157 | .052 | .083 | .291 | .148 | .304 | .081 | 109.682 |
| EUPHAUSIA KROHNII | .006 | .000 | .013 | .000 | .006 | .004 | .000 | .000 | .000 | 1.794 |
| MEGANYCTIPHANES NORVEGICA | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .000 | .000 | .314 |
| NEMATOSCELIS MEGALOPS | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .000 | .000 | .427 |
| THYSANOESSA LONGICAUDATA | .042 | .064 | .138 | .052 | .077 | .282 | .148 | .304 | .081 | 107.146 |
| DECAPODA | .000 | .000 | .000 | .009 | .000 | .004 | .000 | .014 | .047 | 7.400 |
| GENNADAS SP. | .000 | .000 | .000 | .006 | .000 | .004 | .000 | .000 | .012 | 2.172 |
| PASIPHAEA SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .014 | .000 | 1.449 |
| SERGESTES SP. | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .000 | .023 | 2.616 |
| UNIDENTIFIED DECAPOD | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .012 | 1.163 |
| CHAETOGNATHA | .084 | .026 | .126 | .064 | .072 | .145 | .115 | .275 | .105 | 89.359 |
| EUKHRONIA FOWLERI | .000 | .000 | .006 | .006 | .006 | .004 | .008 | .000 | .000 | 2.419 |

TOW 27 27/09/85 1530H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
| EUKHRONIA HAMATA | .072 | .011 | .088 | .035 | .039 | .060 | .066 | .087 | .093 | 47.019 |
| SAGITTA MACROCEPHALA | .012 | .015 | .031 | .020 | .028 | .081 | .033 | .116 | .000 | 30.401 |
| SAGITTA MAXIMA | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .000 | .012 | 1.453 |
| SAGITTA ZETOSIS | .000 | .000 | .000 | .000 | .000 | .000 | .008 | .014 | .000 | 2.269 |
| UNIDENTIFIED CHAETOGNATH | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .058 | .000 | 5.797 |
| PICES | .000 | .004 | .019 | .006 | .011 | .021 | .000 | .029 | .047 | 12.138 |
| BENTHOSEMA GLACIALE | .000 | .000 | .000 | .000 | .006 | .000 | .000 | .000 | .000 | .276 |
| CYCLOTHONE SP. | .000 | .004 | .019 | .006 | .006 | .017 | .000 | .029 | .023 | 9.109 |
| LAMPANYCTUS SP. | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .000 | .000 | .427 |
| SCOPELOGADUS SP. | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .012 | 1.163 |
| UNIDENTIFIED FISH LARVE | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .012 | 1.163 |

| TOW 26 27/09/85 1230H | 44 25.54 N 56 16.76 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| DEPTH1 (M) | 700.0 | 600.0 | 500.0 | 400.0 | 300.0 | 200.0 | 89.0 | 50.0 | 30.0 | |
| DEPTH2 (M) | 600.0 | 500.0 | 400.0 | 300.0 | 200.0 | 89.0 | 50.0 | 20.0 | .0 | |
| VOLUME OF WATER SAMPLED (M3) | 247. | 512. | 1057. | 369. | 81. | 70. | 22. | 24. | 24. | |
| TOTAL BIOMASS (G/M3) | .032 | .053 | .063 | .047 | .036 | .022 | .039 | .076 | .075 | 31.592 |
| EUPHAUSIACEA BIOMASS (G/M3) | .000 | .006 | .003 | .002 | .005 | .001 | .002 | .020 | .016 | |

| SPECIES | NUMBER PER CUBIC METER | | | | | | | | | #/M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED/DAMAGED MEDUSA | .03 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 8.45 |
| SIPHONOPHORA | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | 3.58 |
| LIMACINA BULIMOIDES | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.62 |
| LIMACINA HELICOIDES | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .21 | .50 | 23.10 |
| LIMACINA LESUEURII | .00 | .00 | .00 | .00 | .00 | .00 | .69 | .83 | .08 | 54.35 |
| LIMACINA TROCHIFORMIS | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .04 | .00 | 3.04 |
| GYMNOSOMATA | .02 | .05 | .00 | .17 | .00 | .00 | .00 | .00 | .08 | 26.68 |
| TOMOPTERIS SP. | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.62 |
| CONCHOECIA AMETRA | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 4.13 |
| CONCHOECIA BOREALIS | .03 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 8.45 |
| CONCHOECIA CURTA | .00 | .00 | .00 | .00 | .00 | 1.14 | .00 | .00 | .00 | 126.14 |
| CONCHOECIA SPINIFERA | .00 | .05 | .30 | .17 | .25 | .00 | .00 | .04 | .00 | 78.77 |
| CONCHOECIA SPINIROSTRIS | .13 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 20.67 |
| CONCHOECIA SP. | .11 | .36 | .00 | .00 | .08 | .38 | .00 | .00 | .00 | 98.07 |
| CONCHOECIA-DAMAGED | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 14.57 |
| ACARTIA CLAUSI | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | .42 | 20.78 |
| ACARTIA DANAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.17 | 35.15 |
| AETIDEUS ARMATUS | .00 | .00 | .00 | .00 | .00 | 1.52 | .00 | .00 | .00 | 168.18 |
| CALANUS FINMARCHICUS-TOTAL | .87 | 5.57 | 21.95 | 18.73 | 5.10 | 8.33 | 3.12 | 5.83 | 8.70 | 6705.83 |
| CALANUS FINMARCHICUS (D) | .02 | .05 | .61 | .35 | .08 | .38 | .00 | .17 | .17 | 162.36 |
| CALANUS FINMARCHICUS (G) | .00 | .00 | .00 | .00 | .00 | .38 | .05 | .04 | .08 | 47.59 |
| CALANUS FINMARCHICUS (S) | .02 | .26 | .61 | .52 | .00 | .00 | .09 | .21 | .33 | 160.11 |
| CALANUS FINMARCHICUS VIF | .03 | .31 | 1.21 | .87 | .08 | .76 | .14 | .42 | .59 | 370.07 |
| CALANUS FINMARCHICUS V | .76 | 5.00 | 19.98 | 16.48 | 4.61 | 5.30 | 2.66 | 4.21 | 6.69 | 5702.31 |
| CALANUS FINMARCHICUS IV | .08 | .26 | .61 | 1.39 | .41 | 1.89 | .32 | 1.13 | 1.17 | 566.24 |
| CALANUS FINMARCHICUS III | .00 | .00 | .15 | .00 | .00 | .38 | .00 | .08 | .17 | 64.70 |
| CALANUS FINMARCHICUS II | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 2.51 |
| CALANUS GLACIALIS (G) | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 2.51 |
| CALANUS GLACIALIS VIF | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 2.51 |
| CALANUS GLACIALIS V | .15 | 1.04 | 3.63 | 1.91 | .25 | 1.14 | .46 | .50 | .50 | 871.60 |
| CALANUS GLACIALIS IV | .03 | .05 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 9.70 |
| CALANUS HYPERBOREUS-TOTAL | .29 | .31 | .00 | .17 | .25 | .00 | .05 | .13 | .08 | 110.48 |
| CALANUS HYPERBOREUS (D) | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.07 |
| CALANUS HYPERBOREUS (S) | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 1.25 |
| CALANUS HYPERBOREUS VIF | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 11.32 |
| CALANUS HYPERBOREUS V | .16 | .21 | .00 | .17 | .08 | .00 | .05 | .04 | .00 | 65.64 |
| CALANUS HYPERBOREUS IV | .08 | .05 | .00 | .00 | .16 | .00 | .00 | .04 | .08 | 33.53 |
| CALANUS SP. | .21 | .42 | .00 | .69 | 1.15 | 1.14 | 2.43 | 4.50 | 1.92 | 661.02 |
| CALANUS MINOR | .00 | .00 | .00 | .00 | .08 | .00 | .05 | .08 | 3.35 | 112.94 |
| CLAUSOCALANUS FURCATUS | .00 | .16 | .00 | 1.39 | 1.65 | 32.20 | .37 | .13 | .59 | 3928.49 |
| CLYTEMNESTRA SCUTELLATA | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .08 | .00 | 4.29 |
| EUCALANUS ATTENUATUS | .05 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 15.27 |
| EUCALANUS ELONGATUS | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 5.21 |
| EUCHEATA NORVEGICA | .52 | .10 | .45 | .00 | .33 | .38 | .18 | .33 | .08 | 202.28 |
| EUCHAETA TONSA | .00 | .31 | .00 | .00 | .25 | .00 | .09 | .04 | .17 | 65.79 |
| EUCHEATA SP. | .10 | .47 | .15 | .52 | .58 | 1.14 | .00 | .00 | .17 | 312.53 |
| GAIDIUS TENUISPINUS | .11 | .36 | .45 | .52 | .08 | .00 | .05 | .13 | .25 | 166.54 |
| MECYNOCERA CLAUSI | .00 | .05 | .15 | .00 | .16 | .00 | .00 | .04 | 6.11 | 221.32 |
| METRIDIA LONGA | .16 | .05 | 2.72 | 2.95 | 1.56 | .38 | .78 | .79 | .59 | 858.88 |
| METRIDIA LUCENS | .26 | .47 | .61 | 4.51 | 7.41 | 26.89 | .28 | .71 | .67 | 4362.32 |
| MICROCALANUS PYGMAEUS | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | 3.58 |
| MORMONILLA PHASMA | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.62 |
| OITHONA ATLANTICA | .02 | .05 | .15 | .87 | .25 | 10.23 | 1.06 | .08 | .08 | 1314.76 |
| OITHONA SIMILIS | .00 | .00 | .15 | .17 | .08 | .00 | .28 | .21 | .08 | 60.21 |
| ONCAEA MEDIA | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.42 |
| ONCAEA SP. | .18 | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .08 | 35.46 |
| PARACALANUS PARVUS | .02 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | 1.34 | 50.02 |
| PHAENNA SPINIFERA | .00 | .00 | .15 | .00 | .00 | .00 | .00 | .00 | .00 | 15.14 |
| PLEUROMAMMA ROBUSTA | .00 | .00 | .15 | .35 | .00 | .00 | .00 | .00 | .00 | 49.83 |
| PSEUDOCALANUS MINUTUS | .00 | .00 | .61 | .00 | .00 | .00 | .00 | .00 | .17 | 65.57 |
| RHINCALANUS CORNUTUS | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | .00 | 8.23 |
| SCAPHOCALANUS MEDIUS | .00 | .00 | .00 | .69 | .00 | .00 | .00 | .00 | .00 | 69.38 |
| SCOLECITHRICELLA MINOR | .11 | .31 | .15 | 3.47 | 1.07 | 7.58 | .09 | .33 | .25 | 1373.62 |
| SCOLECITHRICELLA SP. | .00 | .00 | .30 | .00 | .00 | .00 | .00 | .00 | .00 | 30.27 |
| SCOTTCALANUS SECURIFRONS | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.62 |
| SPINOCALANUS ABYSSALLIS | .92 | 1.35 | .00 | 2.60 | .08 | .00 | .00 | .00 | .00 | 496.12 |
| SPINOCALANUS SP. | .00 | .00 | .45 | .00 | .00 | .00 | .00 | .00 | .00 | 45.41 |

TOW 26 27/09/85 1230H (CONTINUED)

| SAMPLE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| SPECIES | | | | NUMBER PER CUBIC METER | | | | | | #/M2 |
| UNDEUCHEATA MAJOR | .00 | .10 | .00 | .17 | .00 | .00 | .00 | .00 | .00 | 27.76 |
| UNID/DAM/EXO COPEPOD | 1.43 | 2.19 | 3.03 | 3.30 | 7.98 | 21.97 | 2.52 | 3.25 | 8.62 | 4685.01 |
| AMPHIPODA EGGS | 1.15 | .00 | .00 | .00 | .00 | 2.65 | .00 | .04 | .00 | 410.55 |
| PARATHEMISTO SP. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 1.76 | 55.22 |
| UNIDENTIFIED AMPHIPOD | .05 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | 6.65 |
| M. NORVEGICA CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 1.25 |
| M. NORVEGICA FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | 2.51 |
| THYSANOESSA RASCHII FURCILIA | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .21 | .00 | 8.04 |
| T. LONGICAUDATA FURCILIAE | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .79 | 1.42 | 66.43 |
| THYSANOESSA SP. FURCILIAE | .00 | .00 | .00 | .00 | .00 | .38 | .05 | .08 | .00 | 46.33 |
| THYSANOESSA SP. CALYPTOSIS | .00 | .00 | .00 | .00 | .00 | 2.65 | .28 | .04 | .00 | 306.30 |
| EUPHAUSIID EGGS | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | 2.87 |
| DAMAGED FURCILIAE | .00 | .00 | .00 | .00 | .00 | .76 | .00 | .71 | 1.26 | 143.00 |
| EUKRONIA HAMATUS | .02 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | .00 | 9.85 |
| DAMAGED CHAETOGNATH | .02 | .00 | .00 | .00 | .25 | .00 | .05 | .00 | .08 | 30.61 |
| FISH EGGS | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.62 |

LARGE MESOZOOPLANKTON & ICHTHYOPLANKTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIDENTIFIED SIPHONOPHORE | .004 | .002 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .695 |
| PERIPHYLLA | .008 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .810 |
| UNIDENTIFIED MEDUSA | .000 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .391 |
| LIMACINA SP. | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .405 |
| TOMOPTERIS SP. | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .000 | .000 | .542 |
| AMPHIPODA | .000 | .023 | .005 | .000 | .000 | .014 | .092 | .083 | .000 | 10.471 |
| PARATHEMISTO GAUDICHAUDII | .000 | .021 | .004 | .000 | .000 | .014 | .092 | .083 | .000 | 10.182 |
| UNIDENTIFIED GAMMARID | .000 | .002 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .290 |
| MYSIDACEA | .012 | .004 | .000 | .000 | .012 | .000 | .000 | .000 | .000 | 2.840 |
| BOREOMYSIS SP. | .012 | .004 | .000 | .000 | .012 | .000 | .000 | .000 | .000 | 2.840 |
| EUPHAUSIACEA | .020 | .078 | .041 | .065 | .123 | .057 | .138 | 1.875 | .711 | 122.017 |
| EUPHAUSIA KROHNII | .000 | .000 | .005 | .054 | .099 | .000 | .046 | .042 | .000 | 18.809 |
| MEGANYCTIPHANES NORVEGICA | .000 | .018 | .014 | .003 | .012 | .000 | .000 | .000 | .042 | 5.938 |
| NEMATOSCELIS MEGALOPS | .000 | .000 | .000 | .003 | .000 | .014 | .000 | .000 | .000 | 1.848 |
| THYSANOESSA INERMIS | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .042 | .000 | 1.250 |
| THYSANOESSA LONGICAUDATA | .020 | .047 | .018 | .005 | .012 | .043 | .092 | 1.792 | .669 | 92.428 |
| THYSANOPODA SP. | .000 | .014 | .003 | .000 | .000 | .000 | .000 | .000 | .000 | 1.651 |
| DAMAGED/UNIDENTIFIED EUPHAUS | .000 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .095 |
| DECAPODA | .004 | .061 | .006 | .005 | .012 | .000 | .000 | .000 | .042 | 10.059 |
| ACANTHYPHYRA SP. | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .000 | .000 | .271 |
| GENNADAS SP. | .004 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .600 |
| PASIPHAEA SP. | .000 | .000 | .000 | .003 | .000 | .000 | .000 | .000 | .000 | .271 |
| PENAEIDAE | .000 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .095 |
| SERGESTES SP. | .000 | .059 | .005 | .000 | .012 | .000 | .000 | .000 | .042 | 8.822 |
| CHAETOGNATHA | .040 | .055 | .149 | .230 | .160 | .099 | .275 | .083 | 2.469 | 161.785 |
| EUKHRONIA HAMATA | .028 | .035 | .143 | .225 | .123 | .043 | .275 | .000 | .167 | 75.959 |
| SAGITTA ELEGANS | .000 | .000 | .001 | .003 | .000 | .014 | .000 | .083 | 2.301 | 73.480 |
| SAGITTA LYRA | .000 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .095 |
| SAGITTA MAXIMA | .012 | .020 | .004 | .003 | .037 | .043 | .000 | .000 | .000 | 12.251 |
| PICES | .012 | .031 | .022 | .003 | .025 | .000 | .046 | .000 | .000 | 11.045 |
| BENTHOSEMA GLACIALE | .000 | .004 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .864 |
| CYCLOTHONE SP. | .012 | .027 | .017 | .003 | .025 | .000 | .046 | .000 | .000 | 10.181 |