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HISTORICAL ZOOPLANKTON

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SOUTHEAST FISHERIES CENTER
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ENVIRONMENTAL STUDIES OF THE SOUTH TEXAS CONTINENTAL SHELF

HISTORICAL ZOOPLANKTON

by

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ABSTRACT

Monthly samples taken at seven stations on two transects off the South Texas coast between 1963 and 1965 were used to examine temporal and spatial variability in zooplankton populations. These data were compared to data from four stations on a previously examined transect in the same area. Seasonal peaks of density in the zooplankton and copepods generally occurred in the spring and fall. Seasonal and year to year variability, however, was high. A trend of decreasing density with distance from shore was commonly exhibited in these major groups.

The dominant groups of zooplanktonic organisms included Copepoda, Larvacea, Mollusca, *Euconchoecia* (Ostracoda), and Chaetognatha. Copepods generally comprised 50 to 65 percent of the zooplankton and were examined in detail. Dominant species of adult female copepods included *Paracalanus indicus*, *P. quasimodo*, *Acartia tonsa*, *Oncaea media*, *Paracalanus crassirostris*, and *Clausocalanus furcatus*. Species diversity increased with the distance from shore.

Detailed comparisons with the current BLM study on the zooplankton populations off the South Texas coast were difficult due to different sampling designs and the great variability exhibited in the data. Despite these difficulties, the general results on the abundances and distributions of major groups of zooplankton appeared similar in both studies.

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INTRODUCTION

Coastal populations of zooplankton are often characterized by large numerical fluctuations both in time and space. The historical zooplankton study was initiated to examine this temporal and spatial variability from monthly samples taken from 1963 to 1965 in the coastal waters of the Gulf of Mexico off South Texas. Along with this objective, another and perhaps more basic intent of this study is to document the occurrences of various species and taxa of zooplankton in the area.

The samples were taken by the staff of the Galveston Laboratory of the National Marine Fisheries Service as part of a major project to study the biology and dynamics of the shrimp populations in the northern Gulf of Mexico. The history and objectives of this research conducted in the early 1960's are described by Kutkuhn (1963).

The zooplankton literature on the Gulf of Mexico has often been referred to as depauperate. In the last 20 years, however, this has begun to change and there have been a number of studies conducted on nearshore and continental shelf zooplankton populations in which some aspect of seasonality has been examined.

Arnold (1958) reported on settling volumes of planktonic fish eggs and larvae from a large portion of the Gulf, including coastal areas, from samples taken on ten cruises between March 1951 and July 1953.

In the eastern Gulf, King (1949) studied zooplankton displacement volumes and identified copepods and other groups from five stations on a transect off South Florida. Monthly samples were taken from January to October in 1949. Grice (1960) examined the calanoid and cyclopoid copepods from nearshore waters along the west coast of Florida during 1954 and 1955. At one station immediately offshore of Naples, Florida, Drago-

vich (1961, 1963) reported on zooplankton and phytoplankton samples taken five times per week from March 1956 to August 1957. Kelly and Dragovich (1967) studied macrozooplankton taken in monthly tows from September 1961 to August 1962 in the Tampa Bay area and the surrounding coastal waters. Also working in this area, Austin and Jones (1974) measured displacement volumes of total zooplankton at one station off Tampa, Florida from monthly samples taken between June 1969 and August 1970. The seasonal abundance and distribution of pink shrimp larvae have also been fairly extensively studied on the Tortugas Shelf and in the coastal waters off Tampa between the years 1959 and 1964 (Eldred et al. 1965, Munro et al. 1968, and Jones et al. 1970).

In the estuarine and coastal waters off Louisiana, Gillespie (1971) examined the zooplankton from monthly samples taken at 28 stations in 1968 and 1969.

Much of the seasonal work done in the western Gulf has been associated with samples taken by the National Marine Fisheries Service Laboratory in Galveston, Texas. Temple and Fischer (1965) examined the vertical distribution of larval penaeid shrimp over a six month period in 1963 at one station approximately 50 miles south of Galveston. Other studies employing these samples include work on chaetognaths (Adelmann 1967) and copepods (Allison 1967). Temple and Fischer (1967) also reported on an extensive examination of the seasonal and spatial distribution of *Penaeus* spp. larvae in the shelf waters off Texas and Louisiana in 1961. Harper (1968) studied the seasonal distribution of *Lucifer faxoni* off the Texas coast from monthly samples taken in 1962. Some seasonal work on zooplankton populations has also been conducted off Freeport, Texas, in 1973 (SEADOCK 1975). Other seasonal studies of zooplankton off the South Texas coast have included work on larval penaeids (Temple 1976) and ichthy-

oplankton (Finucane, 1976). Park (1975, 1976) examined the zooplankton and copepods off the South Texas coast.

The historical zooplankton study includes data from a total of 11 stations on three transects (Figure 1). Monthly samples were taken between 1963 and 1965 off the South Texas coast. An analysis of the data from the four stations (W24, W23, W22, W58) on transect 2 has been previously reported (Park, 1976). The present report includes results from the seven remaining stations plus a discussion of the results from all 11 stations. General comparisons are also made with current research (BLM STOCS study or simply BLM study) being conducted off the South Texas coast. This BLM study is still in progress. Data from the first year of the study was reported by Park (1975).

METHODS AND MATERIALS

The locations of the stations are shown in Figure 1 and listed with the station depths in Table 1. The samples were taken with a Gulf V net having a mouth diameter of 40.5 cm and a mesh size of approximately 200 μ (Arnold, 1958). Tows were of the step oblique type from just off the bottom to the surface. Tow durations were approximately 20 minutes and the amount of water filtered was estimated from a flowmeter positioned in the center of the net mouth. Collection dates and other sampling and subsampling data are recorded in Appendix Tables 1-1 through 1-7.

Larval penaeids were removed by the staff of the NMFS before the samples were received. In the laboratory the samples were split using a FOLSOM plankton splitter. The organisms were identified and grouped into various taxonomic categories. The adult female copepods were identified to the species level. Abundances were calculated as average densities ($\#/m^3$) in the water column using the flowmeter readings supplied by the NMFS.

A Shannon-Weiner diversity index was calculated for each sample from the data for adult female copepods. A coefficient of equitability was also calculated, using the formula: $E = \frac{H(S)}{H_{\max}(S)}$; where $H(S)$ is the observed species diversity and $H_{\max}(S)$ is the maximum diversity index

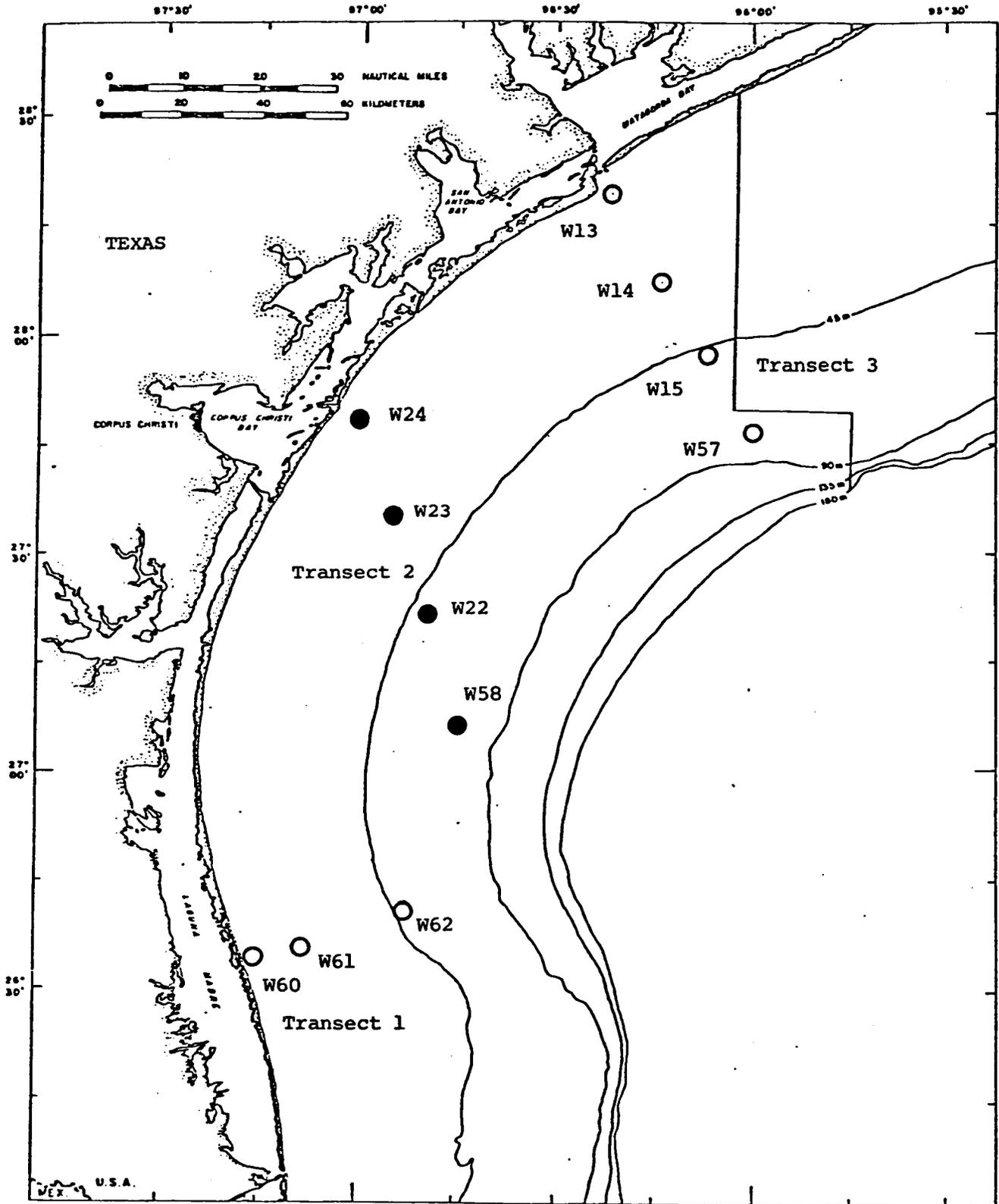


Figure 1. Location of sampling stations. Solid dots indicate stations analyzed in previous study. Circles indicate stations analyzed in this study.

TABLE 1

Locations and depths of sampling stations.

<u>Station</u>	<u>Depth (m)</u>	<u>Location</u>
<u>Examined during this study</u>		
Transect 1		
W60	7	26°34' N, 97°16' W
W61	23	26°36' N, 97°08' W
W62	46	26°41' N, 96°53' W
Transect 3		
W13	14	28°19' N, 96°21' W
W14	28	28°07' N, 96°14' W
W15	46	27°57' N, 96°07' W
W57	73	27°46' N, 96°00' W
<u>Examined previously</u>		
Transect 2		
W24	14	27°48' N, 97°00' W
W23	28	27°35' N, 96°55' W
W22	46	27°21' N, 96°50' W
W58	73	27°06' N, 96°45' W

possible for a given number of species (S).

In the sampling program employed by the NMFS, peaks of sampling frequency were often centered near the beginning or end of a month. This resulted in difficulties upon assigning samples to a particular month for graphical purposes. In order to alleviate these problems to some extent, the dates assigned to each month were shifted 4 to 6 days into the following month. For example, if a sample was taken on March 4, it would still be considered a February sample. This procedure only affected the graphical analyses; Julian dates were used in all tables.

RESULTS AND DISCUSSION

Transects 1 and 3

The numerical abundances per m^3 for the various taxa of zooplankton that were identified at transects 1 and 3 are listed in Appendix Tables 2-1 through 2-7. The percentages of these groups of the total are given in Appendix Tables 3-1 through 3-7. Figures 2 through 8 graphically illustrate the seasonal changes in the densities of zooplankton and copepods for the three year period. These data showed extreme variability in population levels. A general pattern of peak abundances in the spring and in the fall was distinguishable but not consistently present. The specific months in which these peaks occurred and the duration of these high population levels were variable. A general spatial trend could be seen as a decrease in density as the distance from the coast increased. In the total 200 samples analyzed at these seven stations, the copepods were the most abundant organisms comprising 59% of the zooplankton. Other dominant forms included Larvacea (14.1%), Mollusca (11.1%), *Euconchoecia* (Ostracoda) (5.4%), and Chaetognatha (4.6%). Together, these five taxa made up over 94% of the zooplankton.

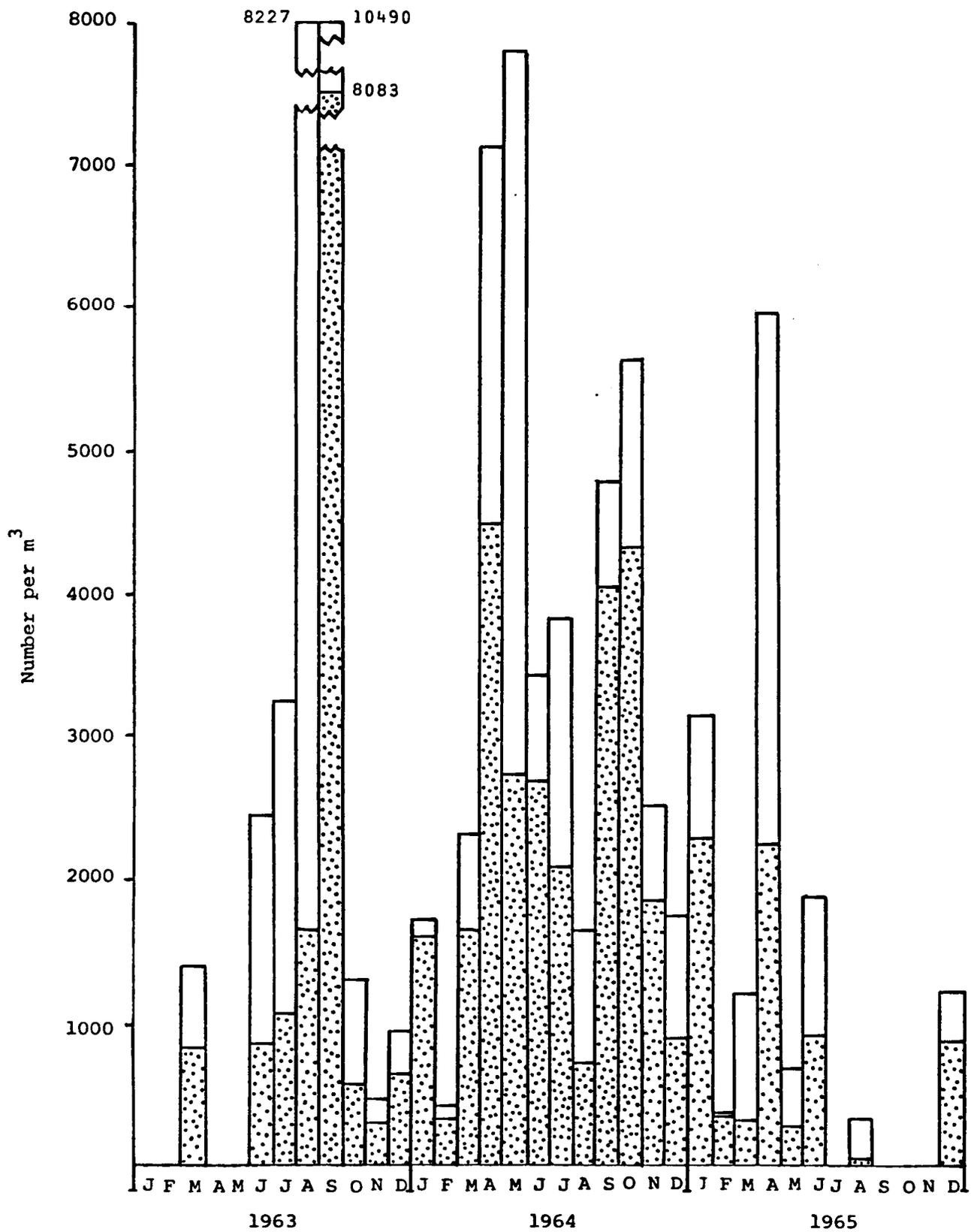


Figure 2. Numerical abundance of zooplankton per m³ and proportion of copepods (shaded) at Station W60.

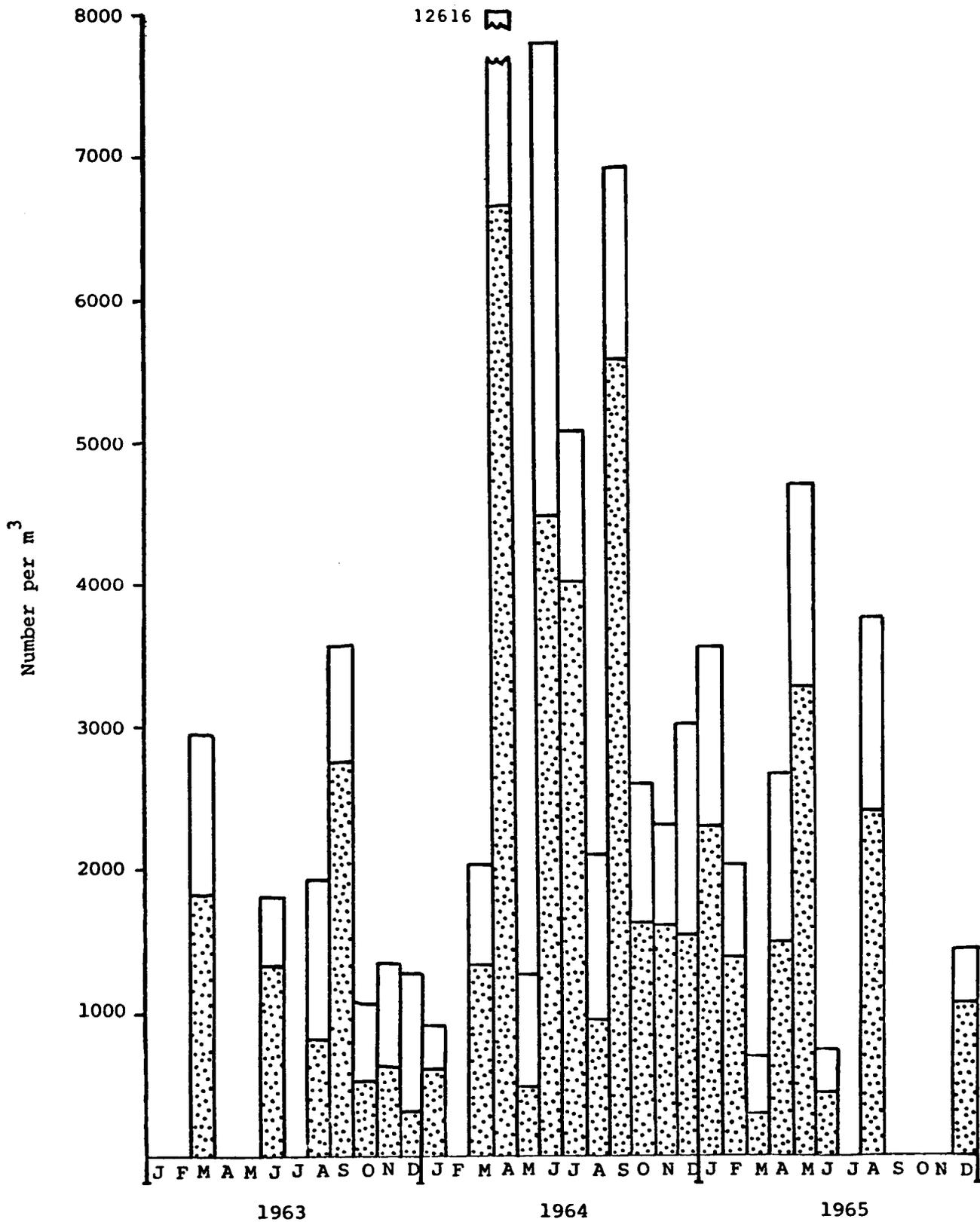


Figure 3. Numerical abundance of zooplankton per m³ and proportion of copepods (shaded) at Station W61.

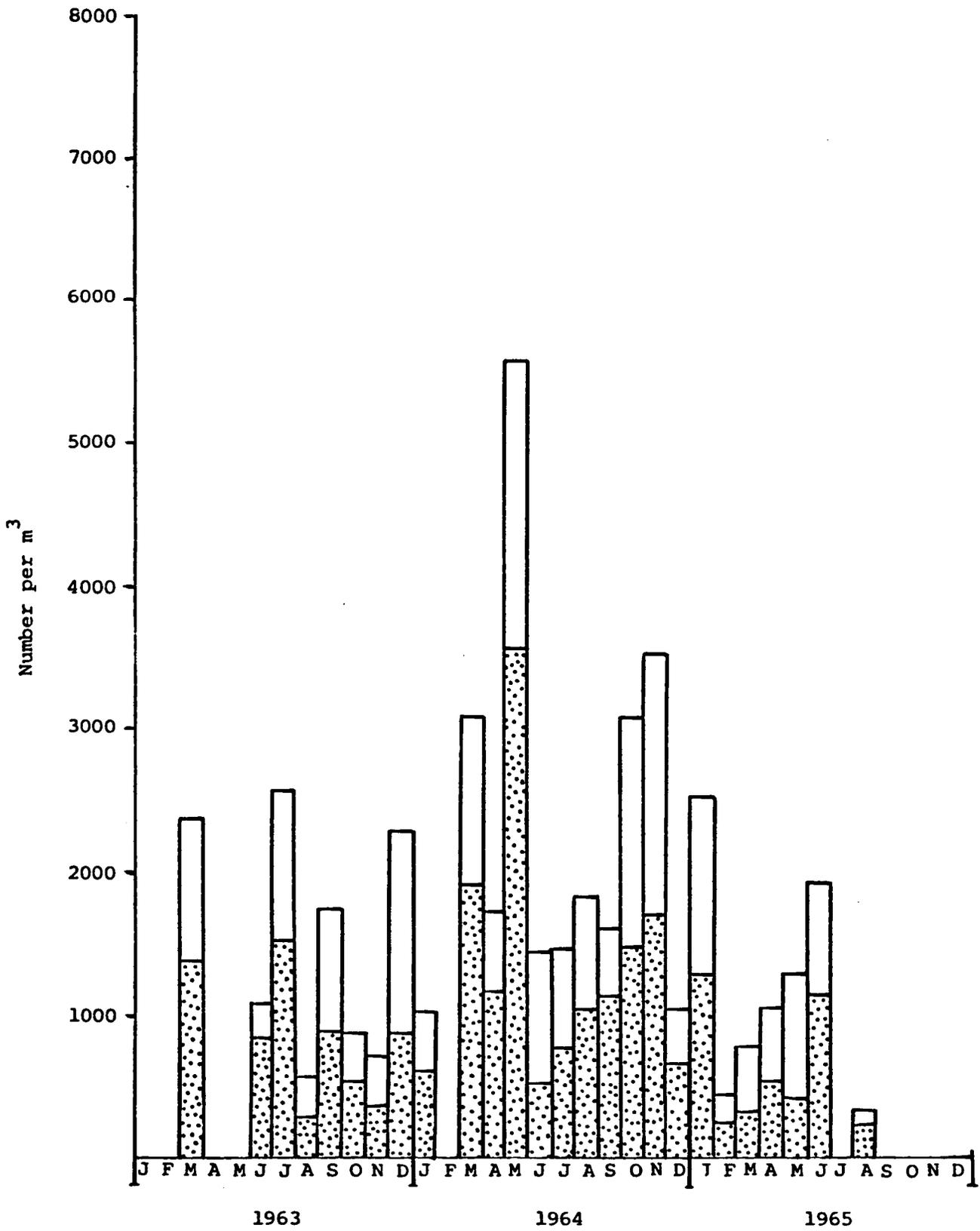


Figure 4. Numerical abundance of zooplankton per m³ and proportion of copepods (shaded) at Station W62.

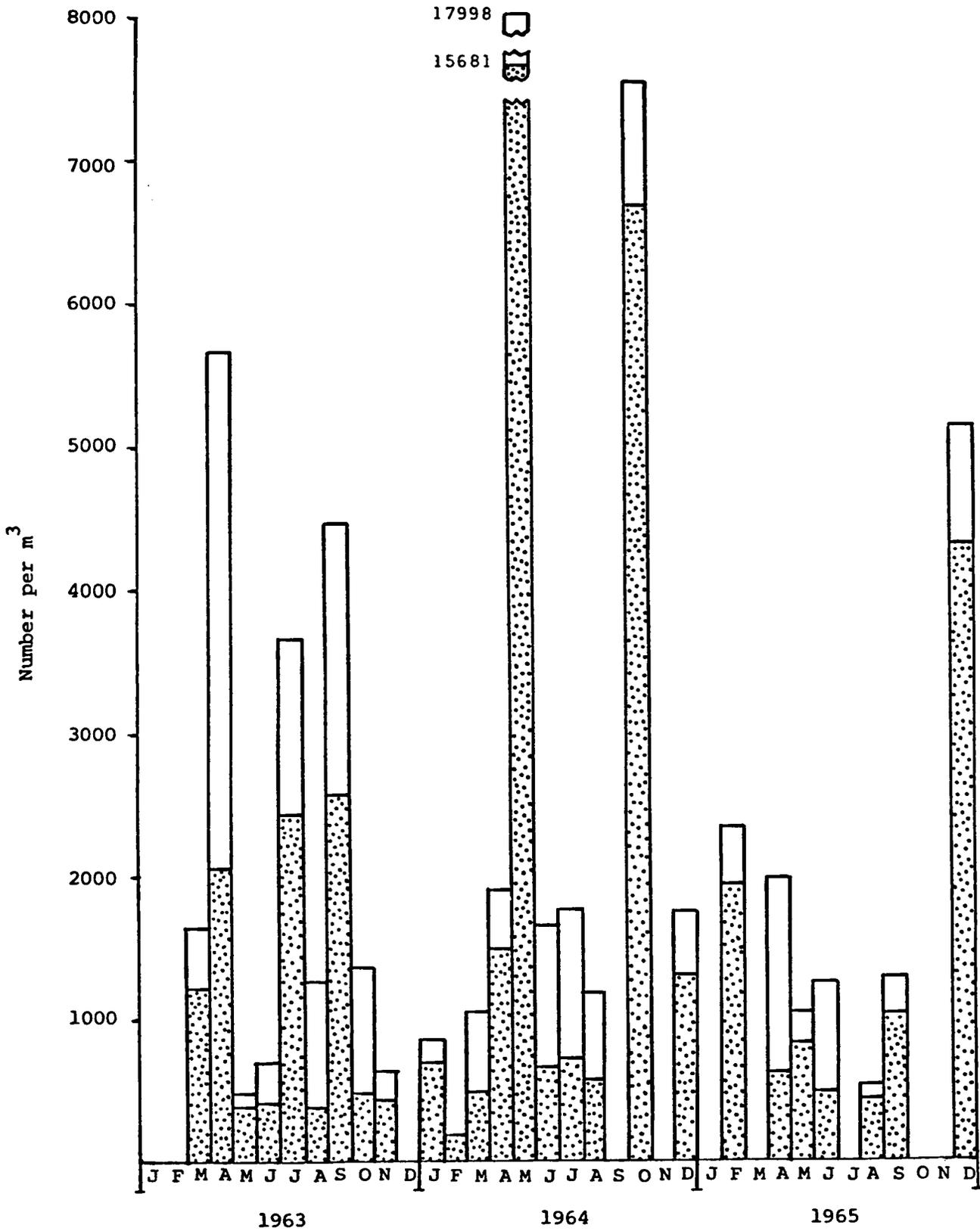


Figure 5. Numerical abundance of zooplankton per m³ and proportion of copepods (shaded) at Station W13.

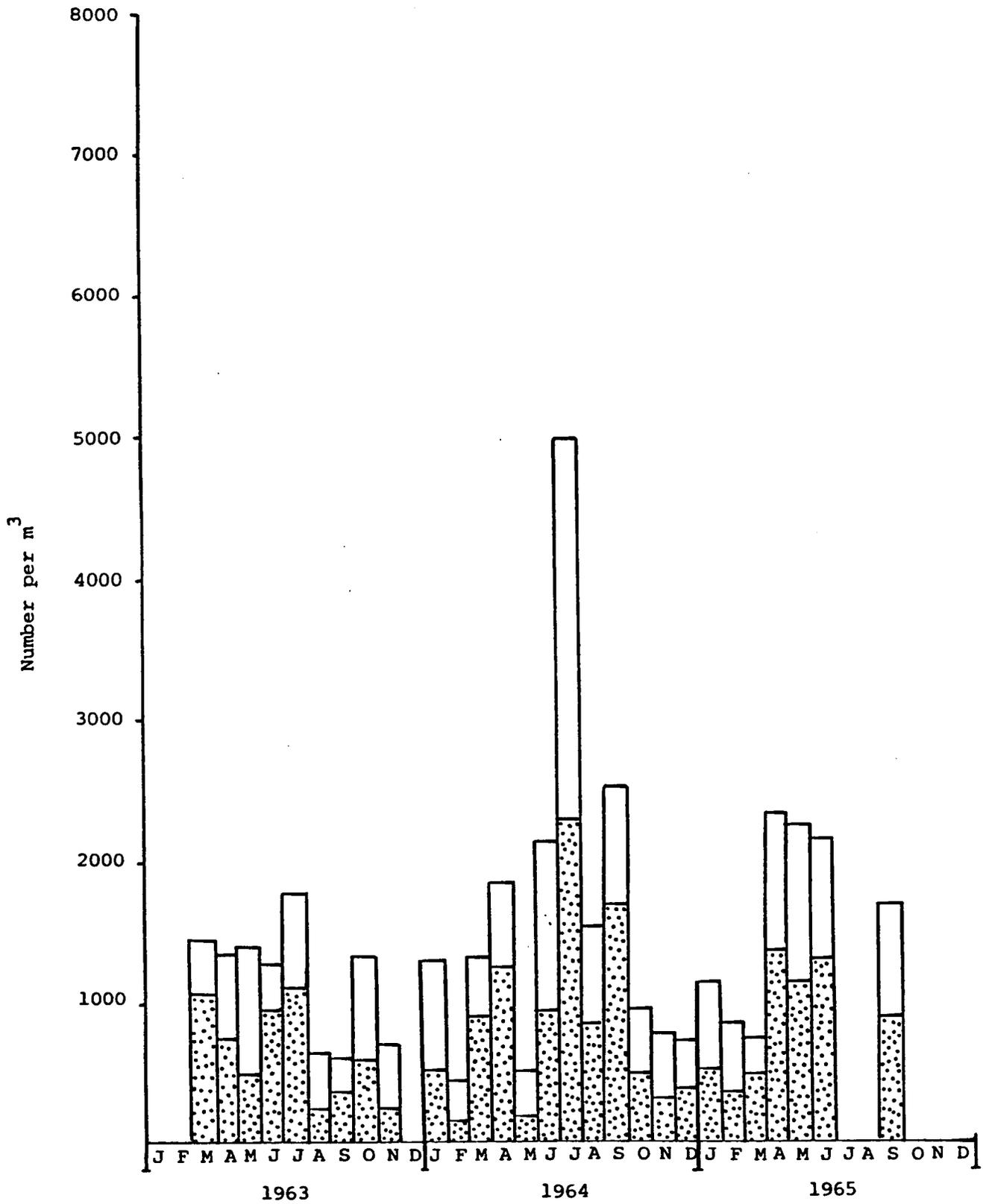


Figure 6. Numerical abundance of zooplankton per m^3 and proportion of copepods (shaded) at Station W14.

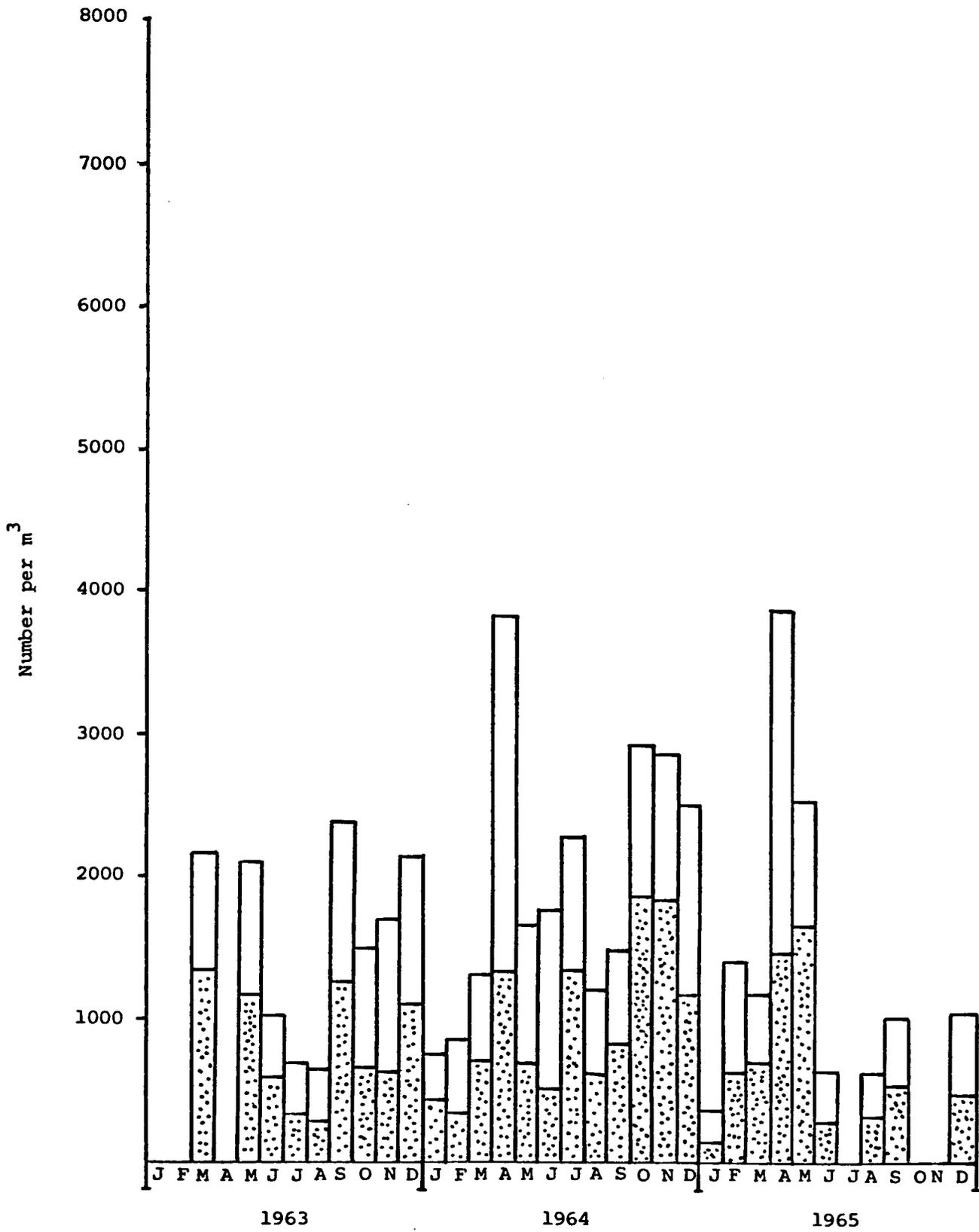


Figure 7. Numerical abundance of zooplankton per m^3 and proportion of copepods (shaded) at Station W15.

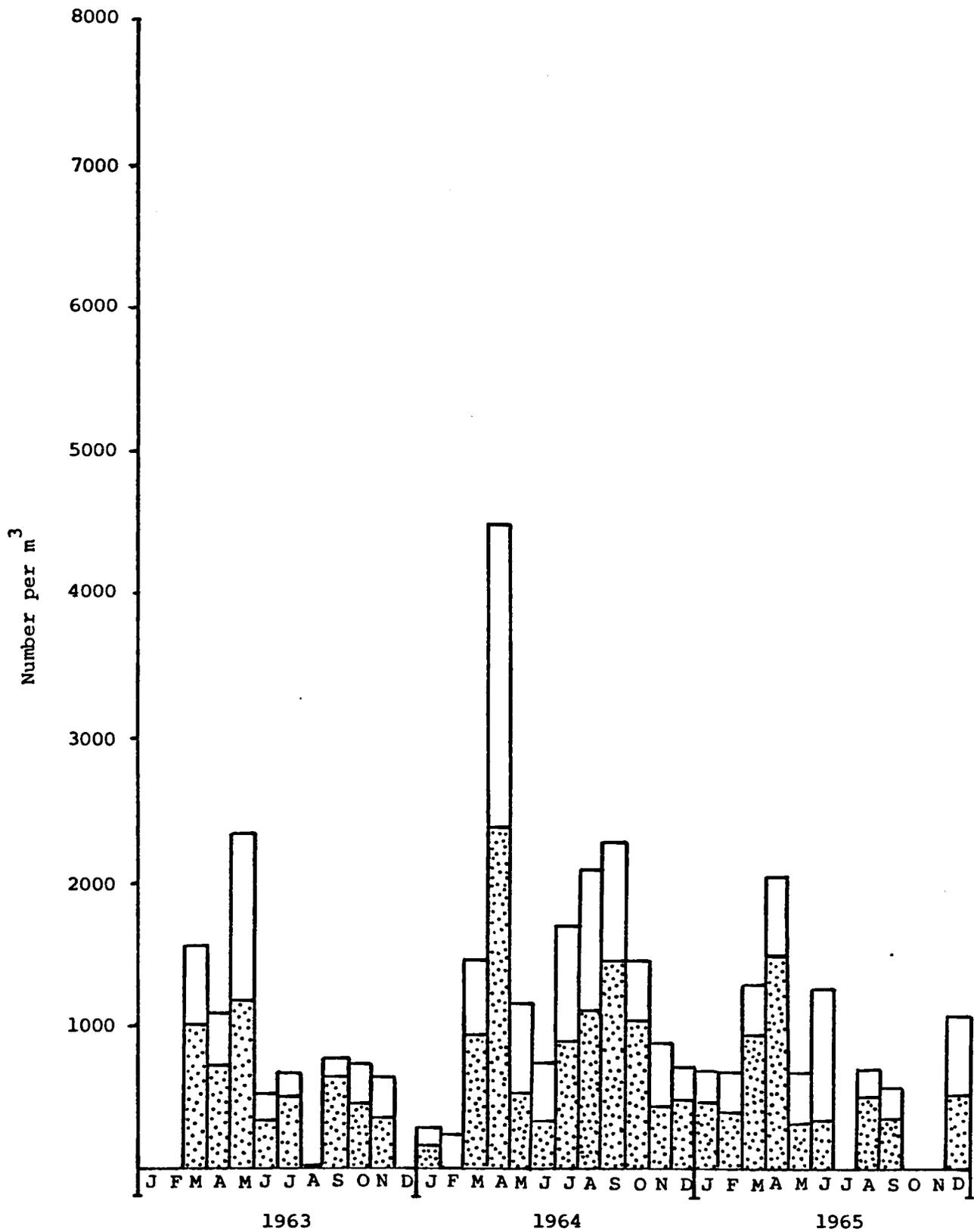


Figure 8. Numerical abundance of zooplankton per m^3 and proportion of copepods (shaded) at Station W57.

Seasonal changes in the Larvacea at the seven stations are illustrated in Figures 9 and 10. The annual average densities of this taxon were relatively similar at all stations. Seasonal variability was the lowest offshore, however, and the highest monthly density values were reached at inshore stations. Peaks of abundance occurred during the spring, summer, and fall. The Larvacea frequently comprised a high percentage of the zooplankton and were especially dominant in the summer months.

The densities of planktonic molluscs were generally greatest at the nearshore stations. Density values were especially high at station W60, the shallowest station examined. Seasonal peaks were erratic which was probably due, in part, to the taxonomic and functional diversity within this group. The group Mollusca included heteropods, pteropods, bivalve larvae, and gastropod larvae.

The ostracod *Euconchoecia* was abundant at the offshore stations and rarely found in large numbers inshore. Seasonal peaks (Figures 11 and 12) generally occurred in the spring and late fall. When present, members of this genus comprised a high percentage of the plankton.

The seasonal distributions of chaetognaths are shown in Figures 13 and 14. The distribution of this group resembled that of the Larvacea. Seasonal variability was relatively low offshore while large density peaks occurred sporadically at inshore stations. High population levels frequently occurred in the spring although they were also observed during all of the other seasons. The percentage of zooplankton comprised by this group remained relatively stable throughout the three year period at these seven stations in contrast to *Euconchoecia* and the Larvacea. This stability in the percentage of chaetognaths suggests that the population density of this group is related to the general abundance of zooplankton. Un-

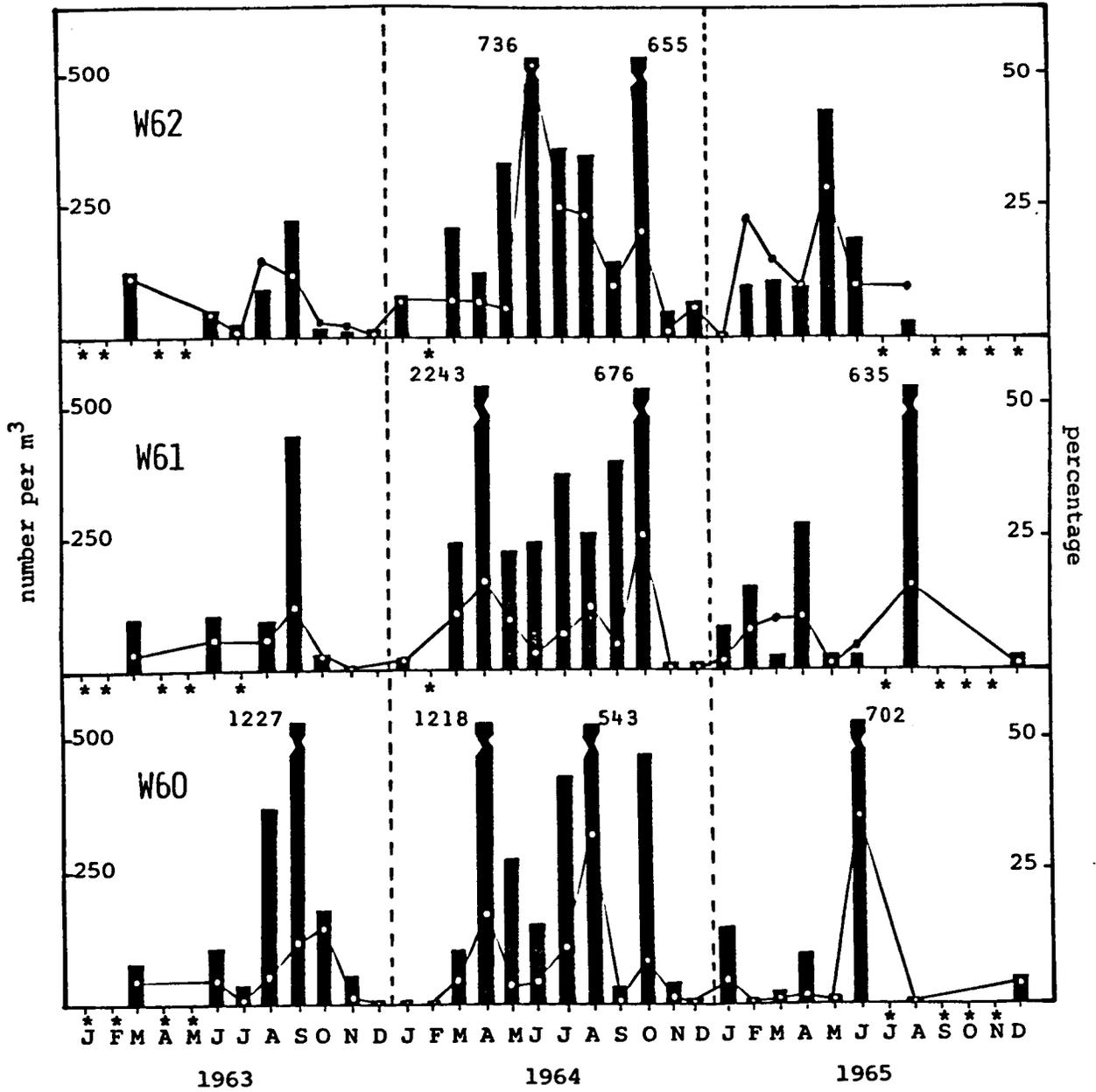


Figure 9. Seasonal density changes in Larvacea at the stations on Transect 1. Solid bars indicate monthly densities (#/m³). Solid line shows the percentages of zooplankton contributed by this group. Asterisks indicate months when no sample was available.

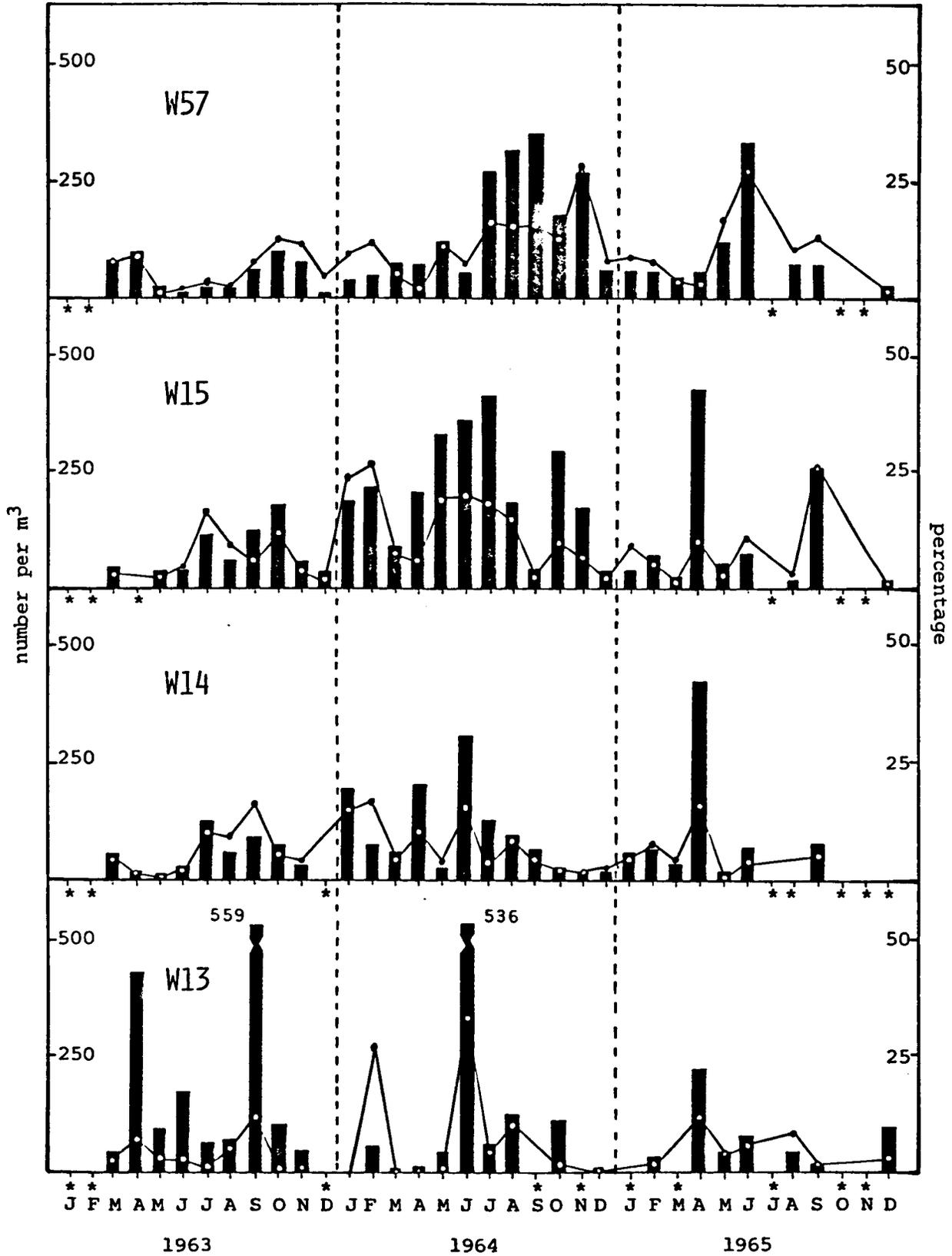


Figure 10. Seasonal density changes in Larvacea at the stations on Transect 3. Graphed as in Figure 9.

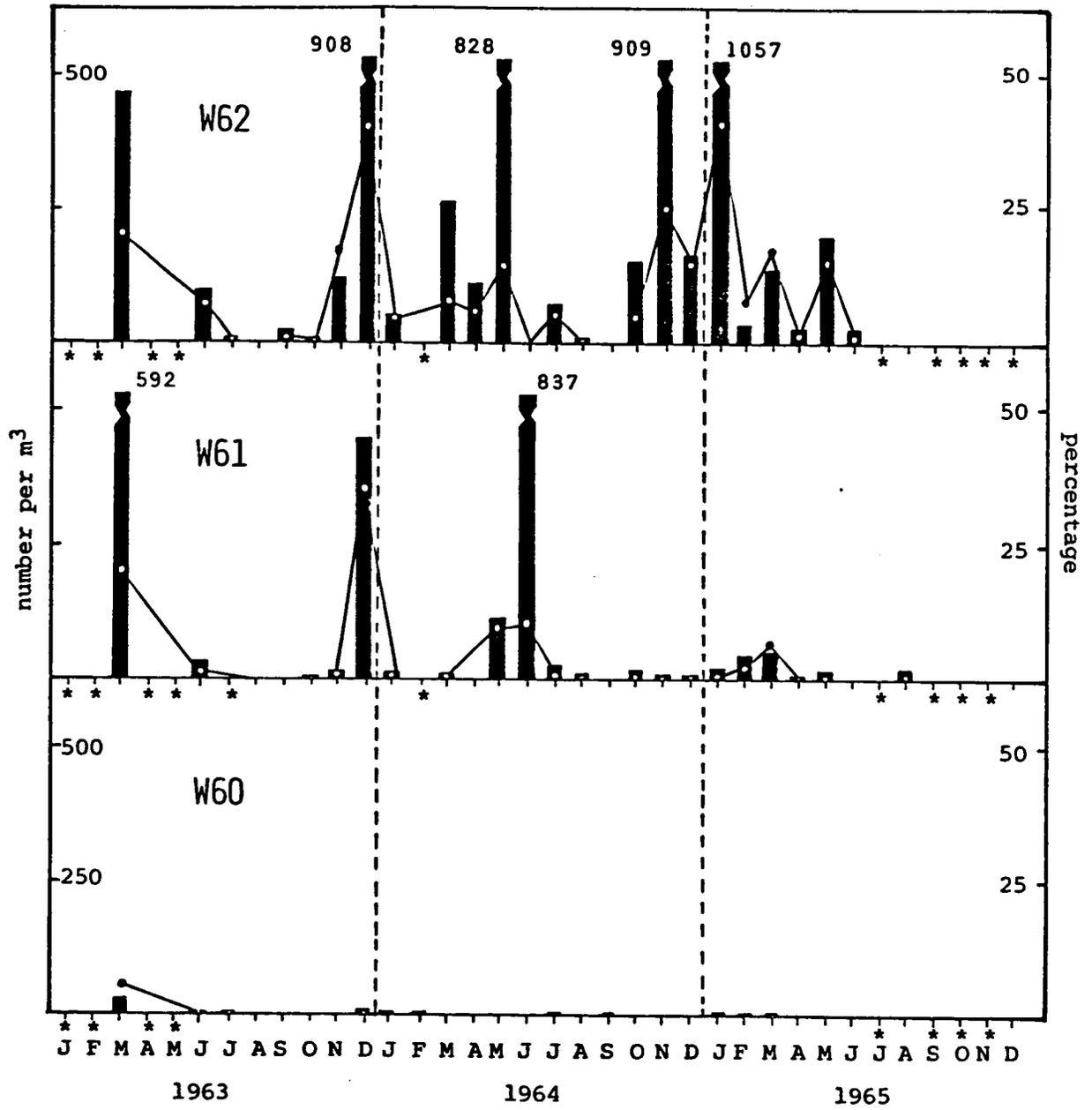


Figure 11. Seasonal density changes in *Euconchoecia* at the stations on Transect 1. Graphed as in Figure 9.

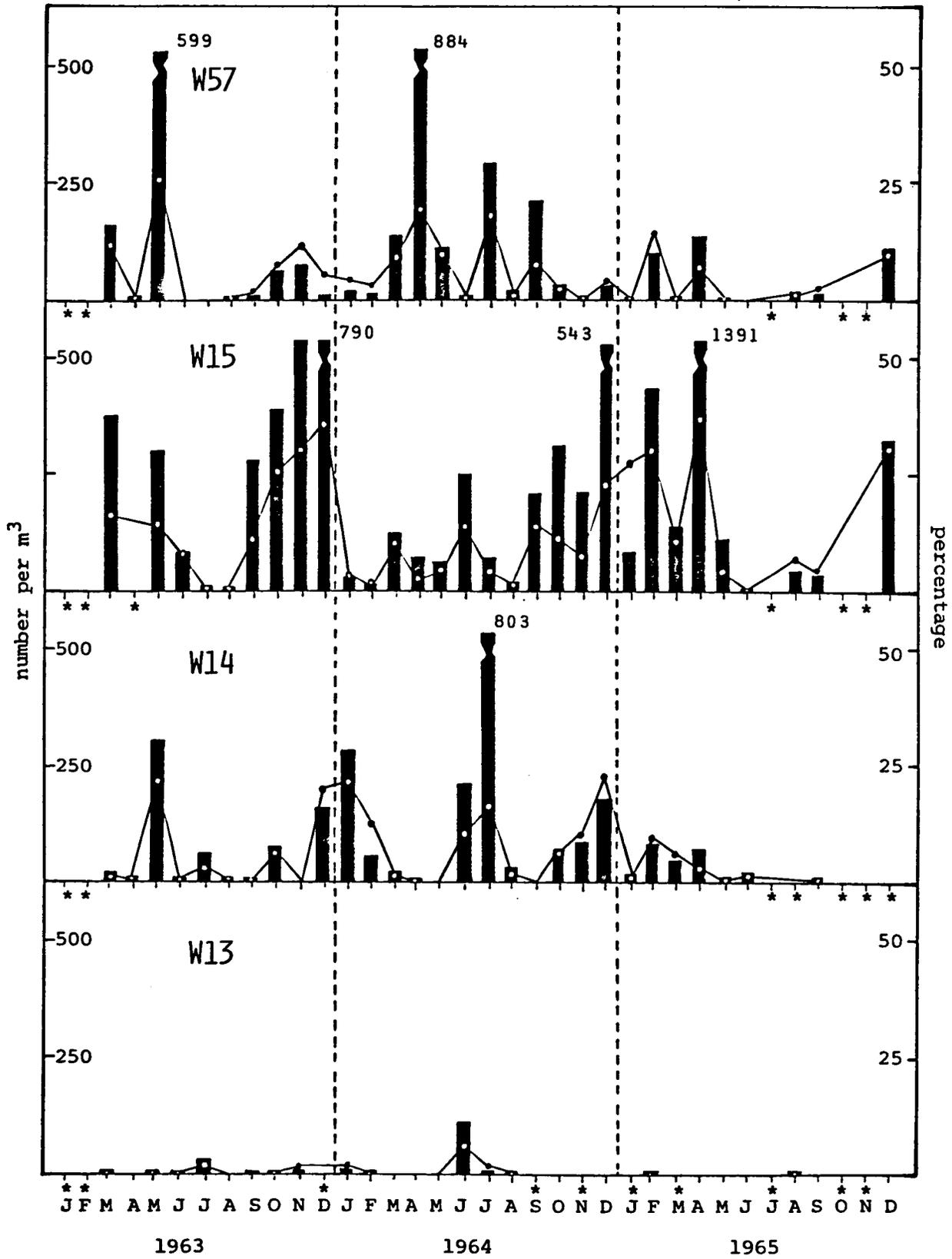


Figure 12. Seasonal density changes in *Euconchoecia* at the stations on Transect 3. Graphed as in Figure 9.

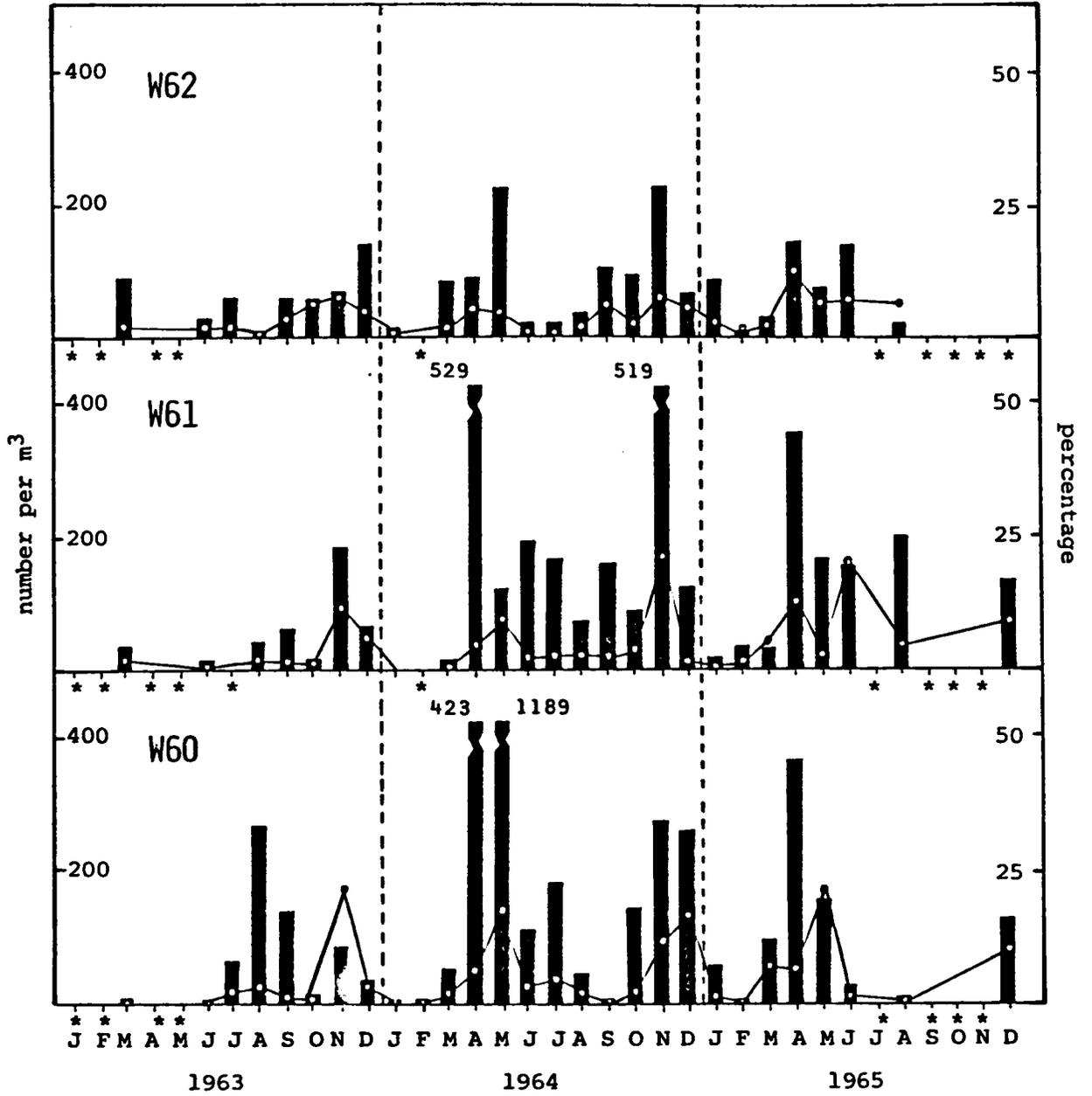


Figure 13. Seasonal density changes in Chaetognatha at the stations on Transect 1. Graphed as in Figure 9.

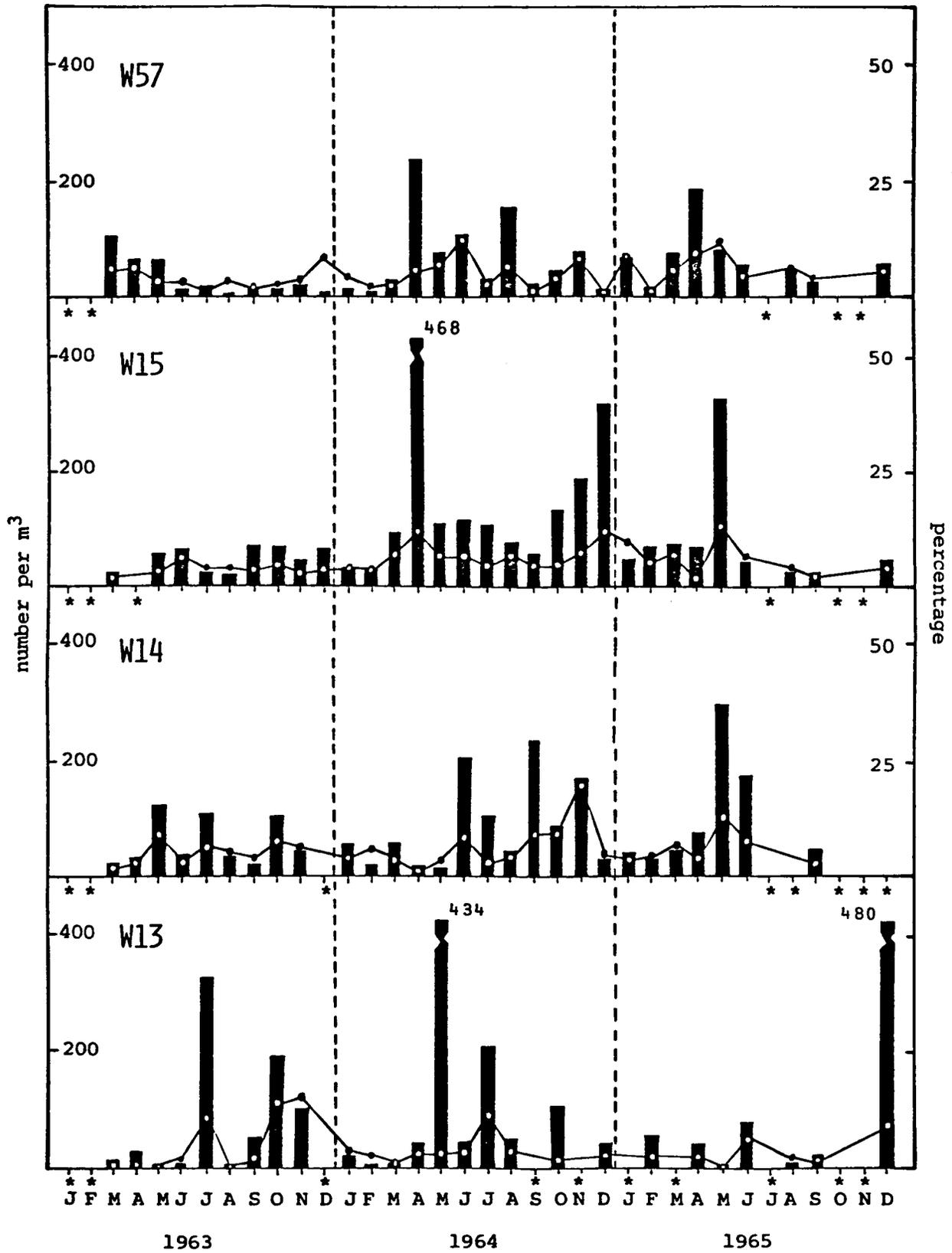


Figure 14. Seasonal density changes in Chaetognatha at the stations on Transect 3. Graphed as in Figure 9.

like the other dominant groups of zooplankton considered here, the chaetognaths are predominantly carnivorous. A relationship between chaetognath densities and the total zooplankton population, therefore, most likely reflects a relationship between a predator and its prey.

Since the average percentage of copepods usually ranged between 50 and 65 percent, this taxon was examined in detail. Summary data on the densities of calanoid, cyclopid, and harpacticoid copepods, broken down into adult females, adult males, and immatures, are given in Appendix Tables 4-1 through 4-7. The percentages of these groups are listed in Appendix Tables 5-1 through 5-7. The calanoids and cycloids were by far the dominant copepods. The three year mean percentages of calanoids ranged between 59 and 75 percent at the seven stations. The highest values were consistently found at the inshore stations and the lowest values were found offshore. The mean percentages of cycloids ranged between 19 and 39 percent. The highest percentages of this group were found at the offshore stations. The seasonal variability in the percentages of both groups was highest in the nearshore areas.

The numerical abundances per m^3 of species of adult female copepods are listed in Appendix Tables 6-1 through 6-7 and their percentages of the total are shown in Appendix Tables 7-1 through 7-7. From the 200 samples taken on transects 1 and 3, six dominant species combined to make up 51 percent of the total number of specimens examined after correcting for the amount of water filtered. These species included *Paracalanus indicus* (16.3%), *P. quasimodo* (12.9%), *Acartia tonsa* (8.3%), *Oncaea media* (7.1%), *Paracalanus crassirostris* (6.4%), and *Clausocalanus furcatus* (6.0%). All of these, except the cyclopid *Oncaea media*, were calanoid copepods.

Paracalanus indicus and *P. quasimodo* are morphologically very similar (Bowman 1971). For this reason, they might be expected to respond

similarly to changes in environmental conditions which control population numbers. These two species combined are referred to in this report as the *Paracalanus parvus* group. The seasonal and spatial distributions of *P. indicus* (Figures 15 and 16) and *P. quasimodo* (Figures 17 and 18) at these seven stations were relatively similar. Both species appeared to be most abundant at the stations of intermediate depth and distance from shore. The seasonal distributions of the two species showed frequent peaks of abundance in the spring and early summer with sporadically occurring peaks in the fall and winter. When the seasonal distribution of the *Paracalanus parvus* group as a whole was examined, a slightly more consistent pattern of large seasonal peaks in the spring and in the fall could be distinguished. Bowman (1971) reported *P. parvus* as a prominent member of the continental shelf copepods off the southern Atlantic coast of the United States. From the single cruise in which the two species, *P. indicus* and *P. quasimodo*, were distinguished, he found that *P. quasimodo* was on the average about three times as abundant as *P. indicus*. Our results indicate that in this area the two species generally occur in similar abundances.

Acartia tonsa (Figures 19 and 20) and *Paracalanus crassirostris* (Figures 21 and 22) had similar spatial distributions at our sampling stations. Both of these species were found in large concentrations at the stations closest to shore (W60 and W13) and occurred infrequently at the offshore stations. *A. tonsa* was most abundant in the spring and *P. crassirostris* exhibited peaks of abundance in the winter, spring, and fall.

Oncaea media (Figures 23 and 24) and *Clausocalanus furcatus* (Figures 25 and 26) were most abundant at the offshore stations and the stations of intermediate depth. They were infrequently found at stations W60 and W13. *O. media* occurred in large numbers in the spring at the offshore stations

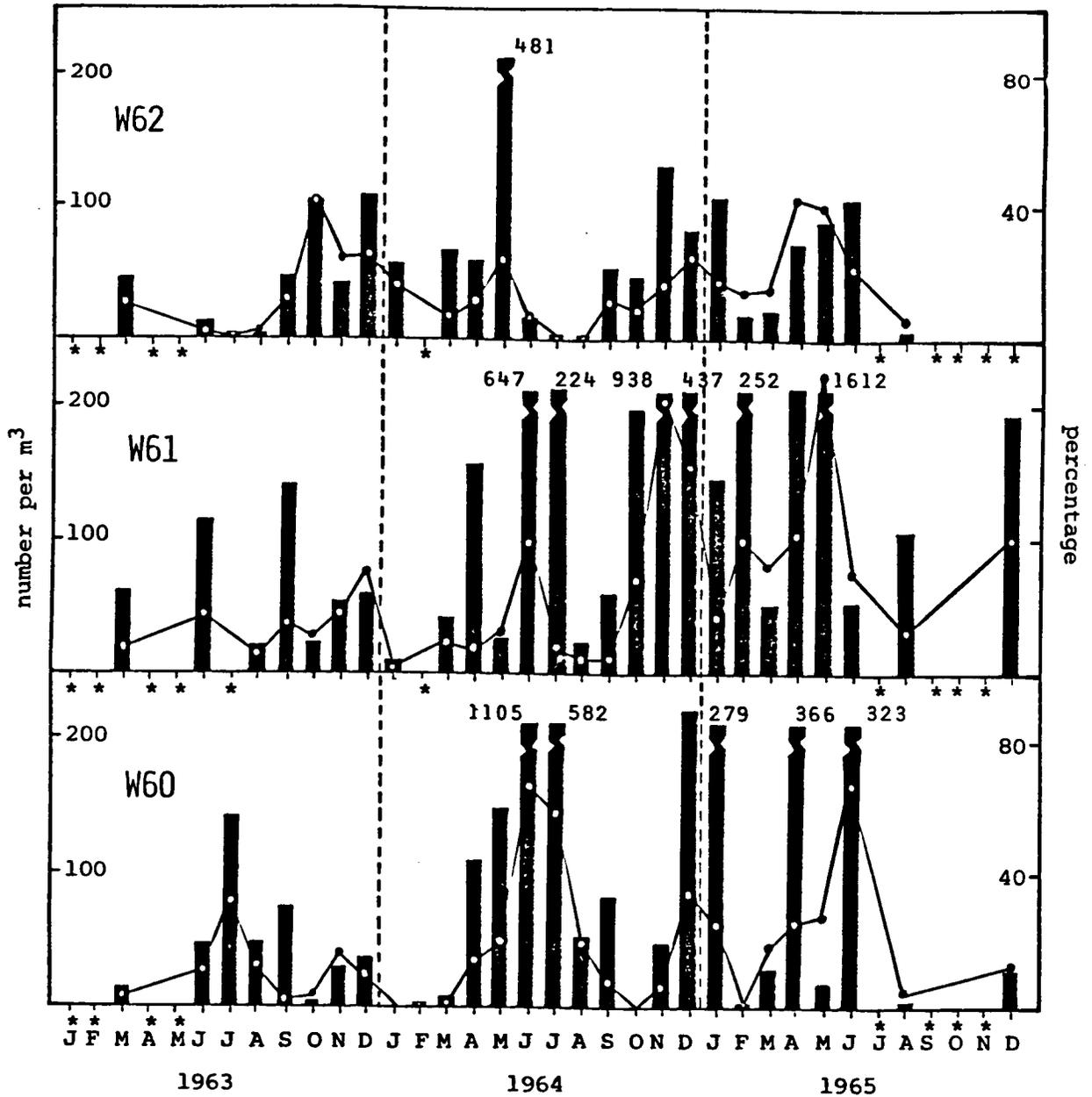


Figure 15. Seasonal density changes in *Paracalanus indicus* at the stations on Transect 1. Solid bars indicate monthly densities (#/m³). Solid line shows the percent of adult female copepods contributed by this species. Asterisks indicate months when no sample was available.

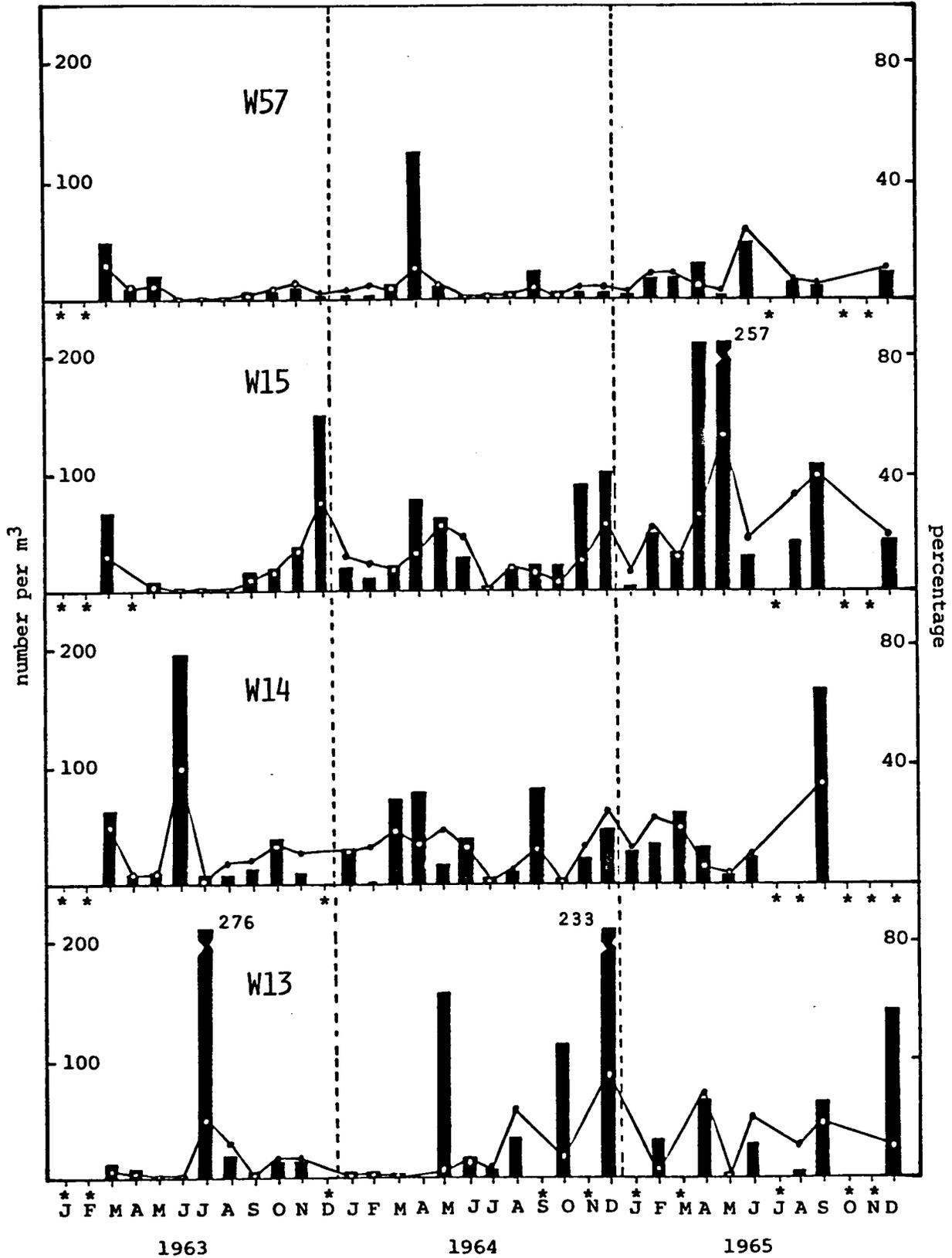


Figure 16. Seasonal density changes in *Paracalanus indicus* at the stations on Transect 3. Graphed as in Figure 15.

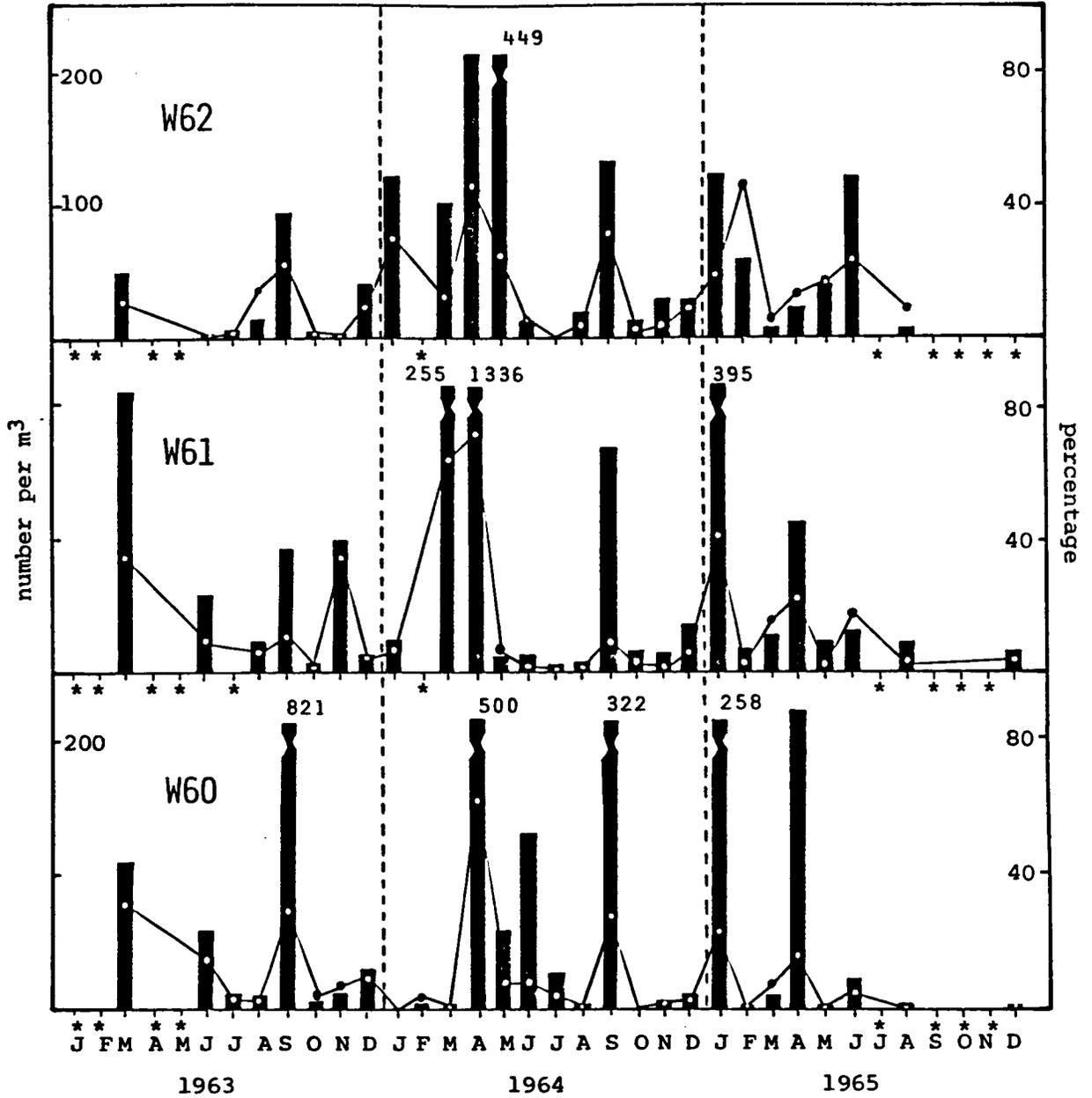


Figure 17. Seasonal density changes in *Paracalanus quasimodo* at the stations on Transect 1. Graphed as in Figure 15.

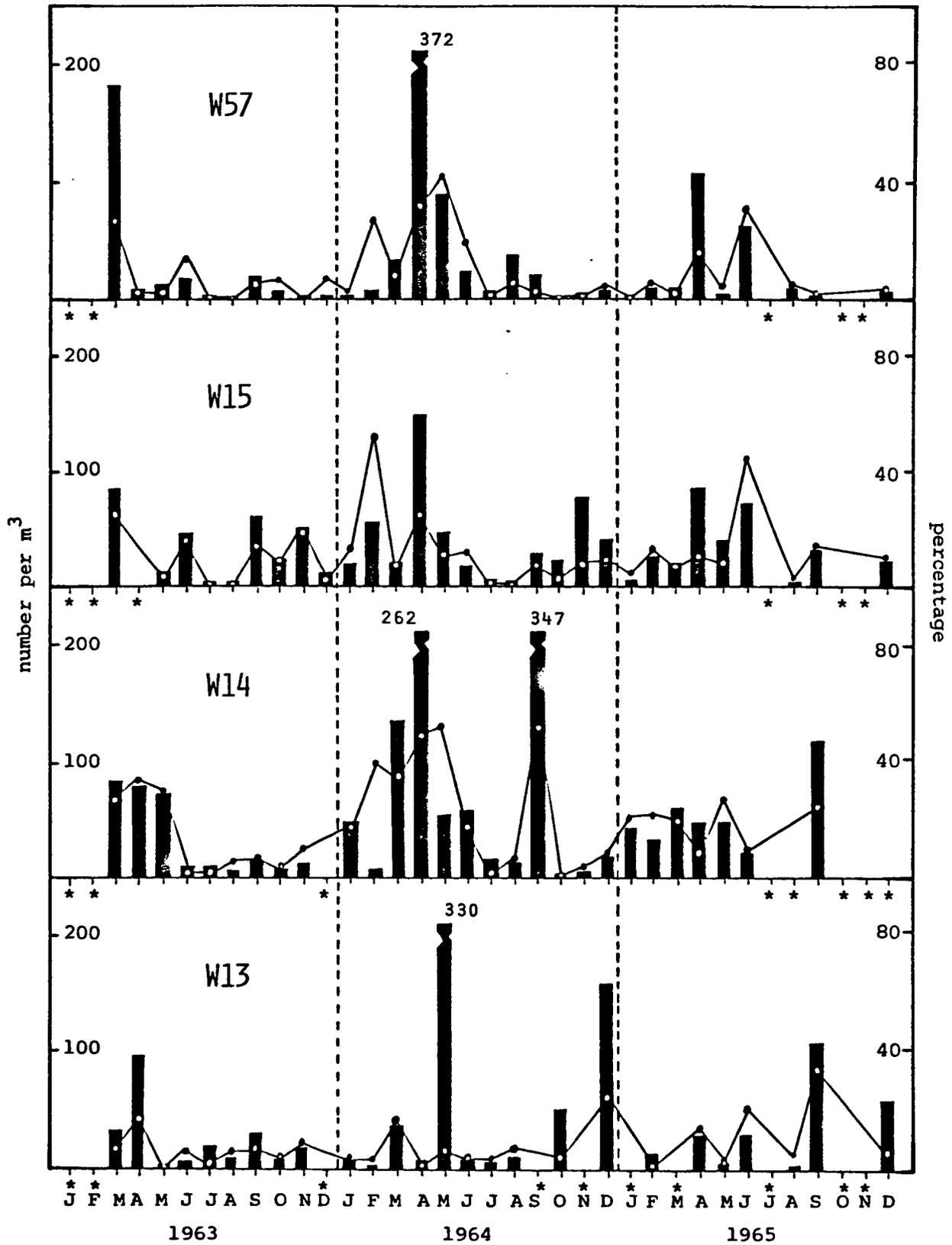


Figure 18. Seasonal density changes in *Paracalanus quasimodo* at the stations on Transect 3. Graphed as in Figure 15.

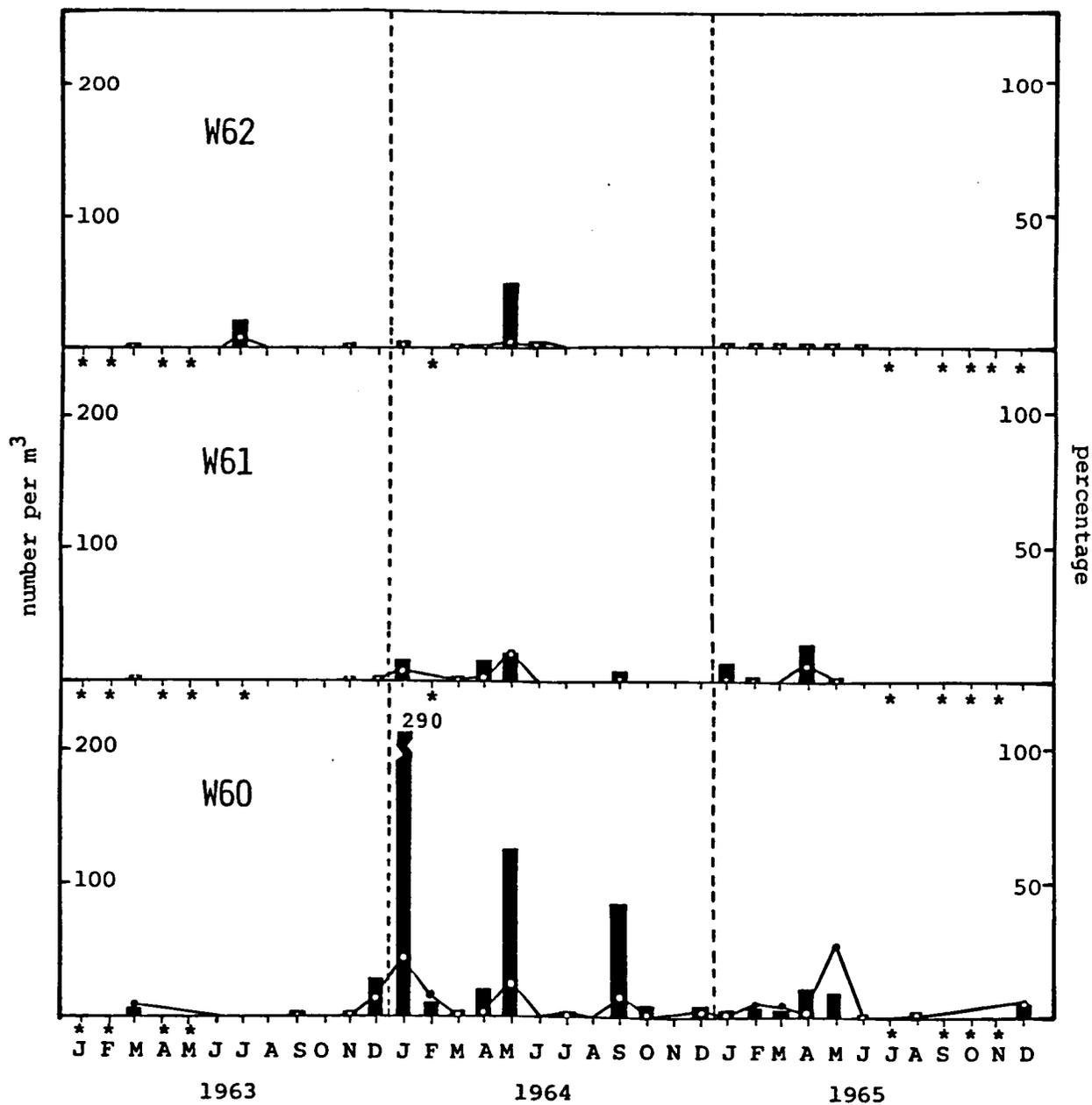


Figure 19. Seasonal density changes in *Acartia tonsa* at the stations on Transect 1. Graphed as in Figure 15.

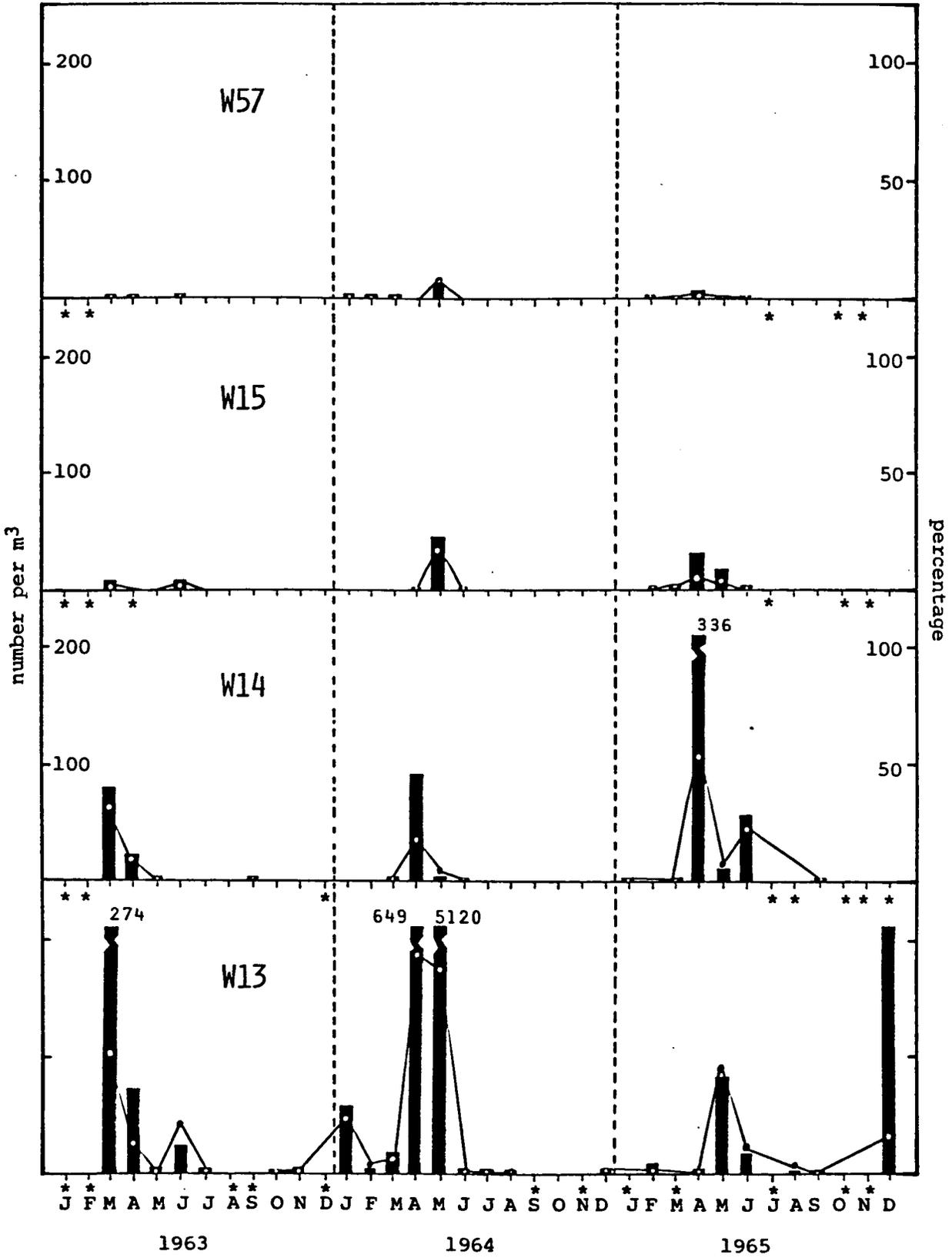


Figure 20. Seasonal density changes in *Acartia tonsa* at the stations on Transect 3. Graphed as in Figure 15.

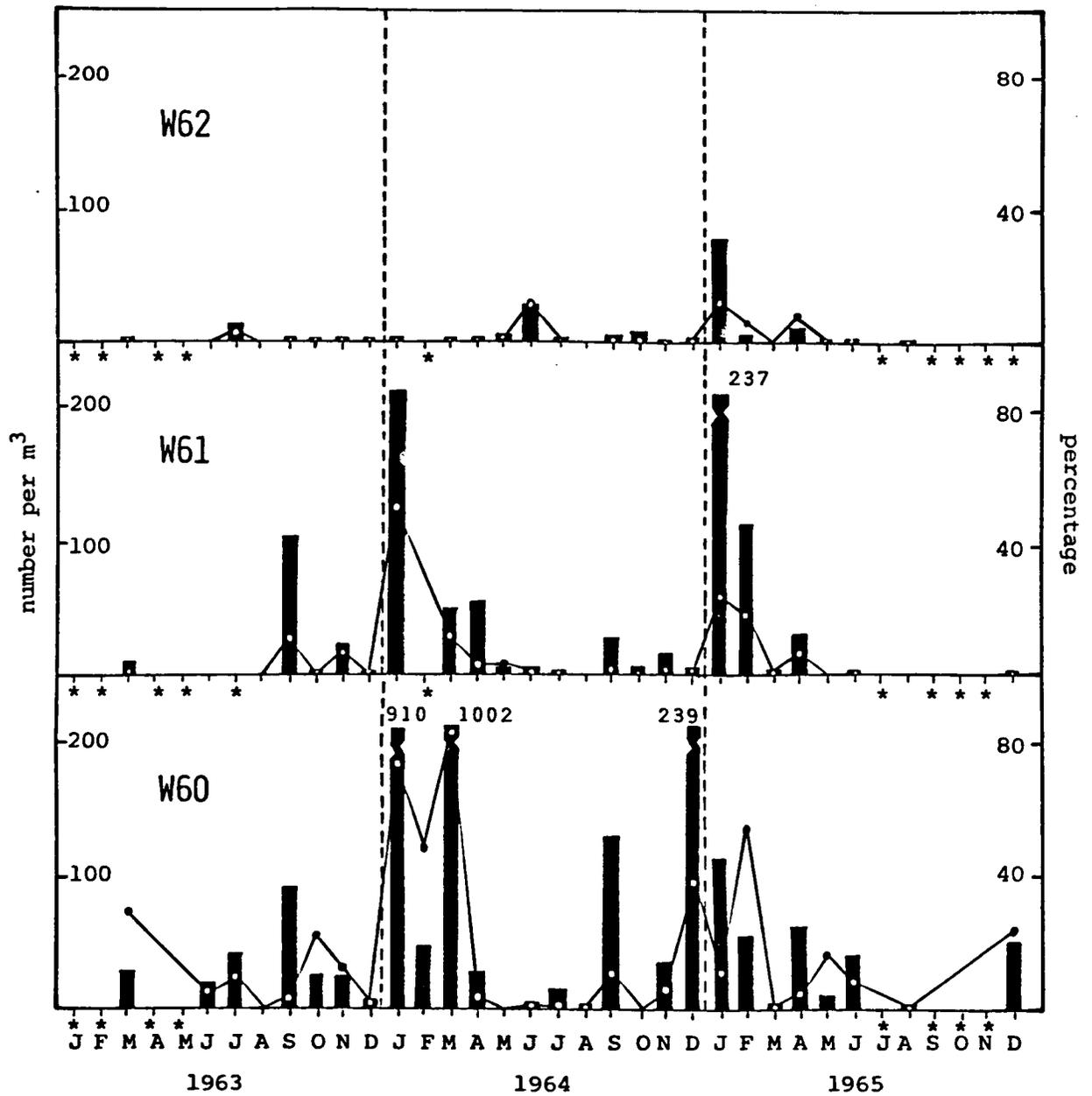


Figure 21. Seasonal density changes in *Paracalanus crassirostris* at the stations on Transect 1. Graphed as in Figure 15.

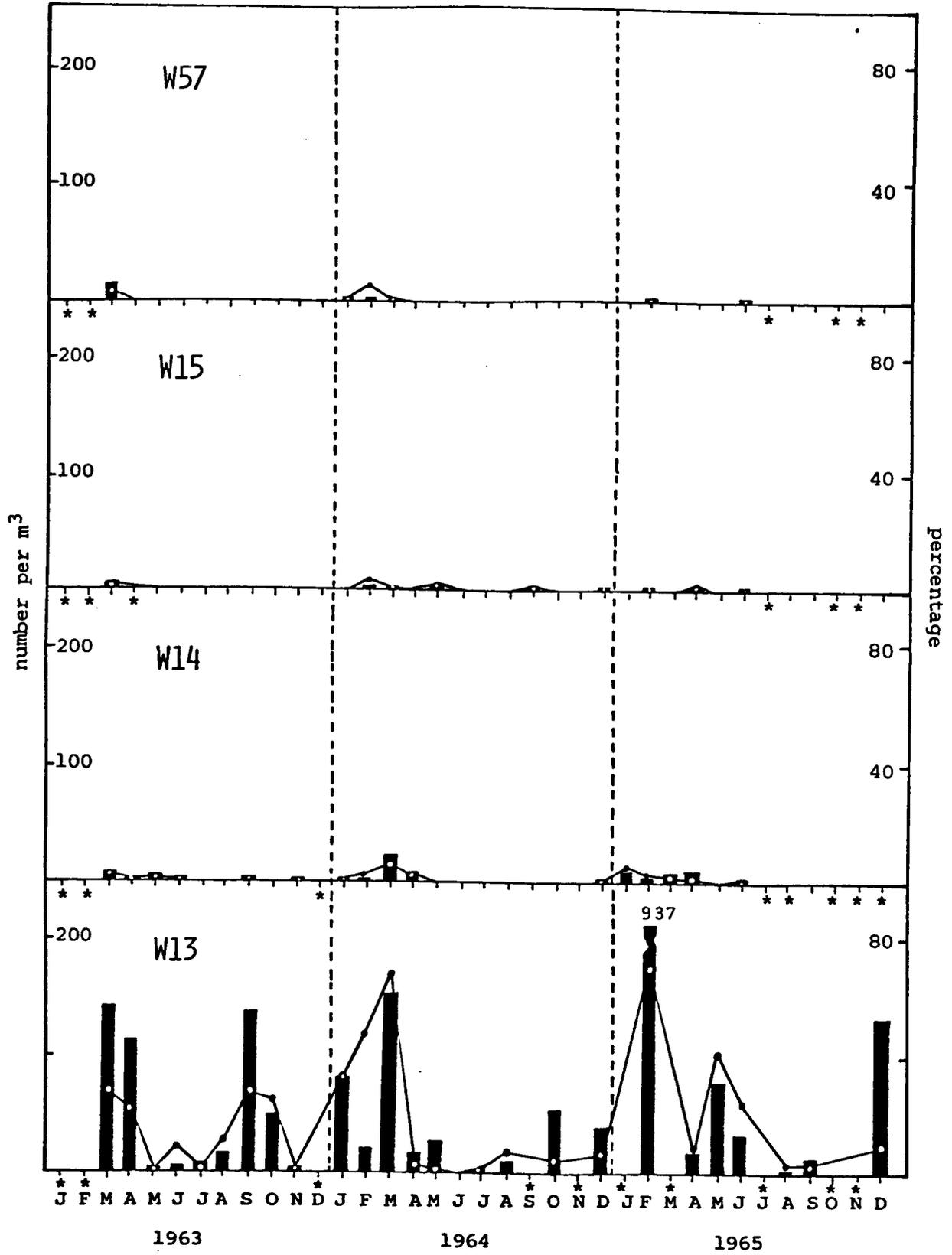


Figure 22. Seasonal density changes in *Paracalanus crassirostris* at the stations on Transect 3. Graphed as in Figure 15.

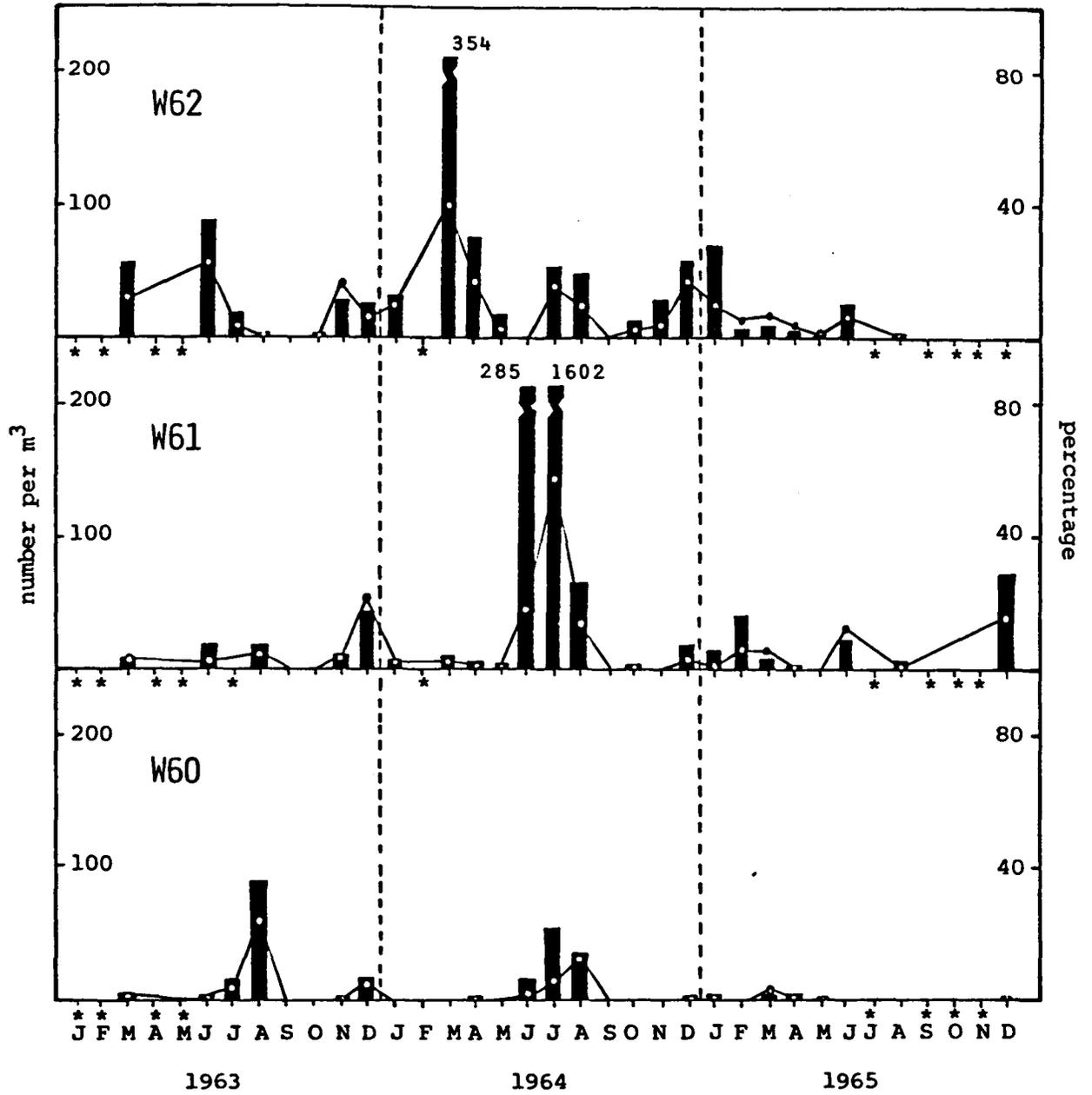


Figure 23. Seasonal density changes in *Oncaea media* at the stations on Transect 1. Graphed as in Figure 15.

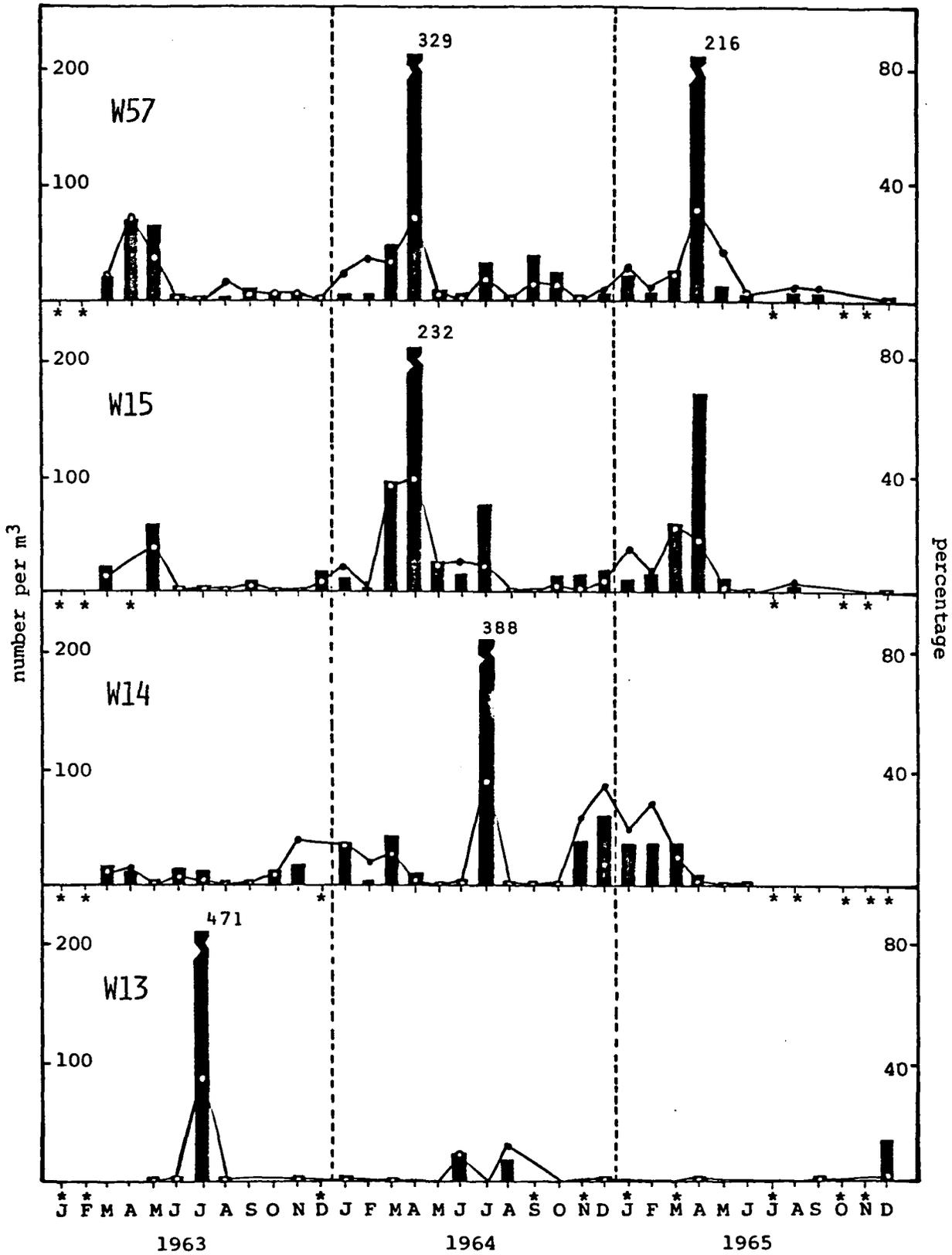


Figure 24. Seasonal density changes in *Oncaea media* at the stations on Transect 3. Graphed as in Figure 15.

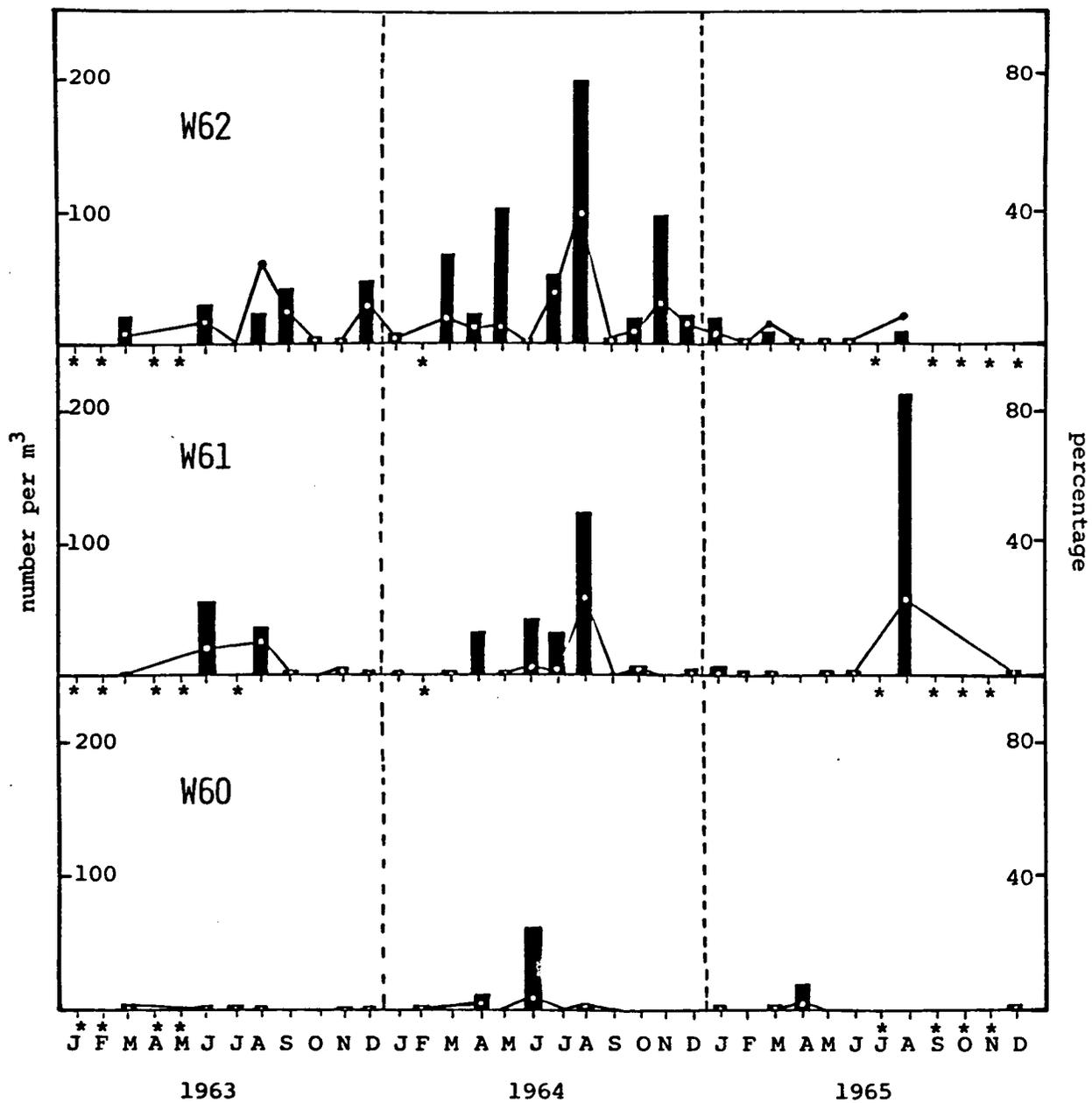


Figure 25. Seasonal density changes in *Clausocalanus furcatus* at the stations on Transect 1. Graphed as in Figure 15.

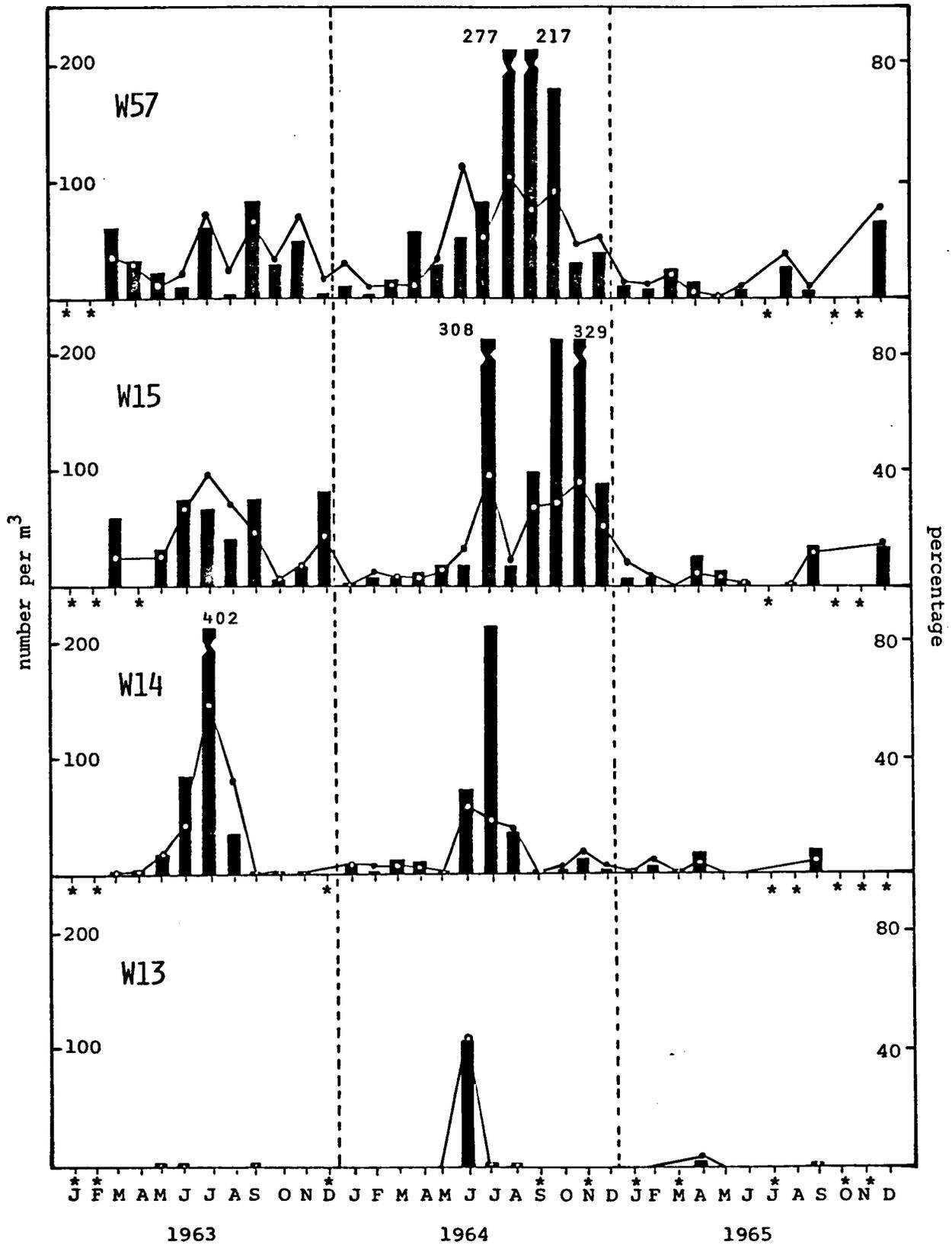


Figure 26. Seasonal density changes in *Clausocalanus furcatus* at the stations on Transect 3. Graphed as in Figure 15.

and periodically in the summer at the nearshore stations. *C. furcatus* generally reached peak abundances in the summer and early fall.

Species diversity indices were calculated on the number of adult female copepods recorded in the analyzed subsamples. The number of specimens examined and the number of species identified are listed with the diversity and equitability indices in Appendix Tables 8-1 through 8-7. The number of species observed at these seven stations clearly increased as the distance from the coast increased. This trend was also exhibited to a lesser extent by the Shannon-Wiener and equitability indices. The high equitability values at the offshore stations indicated that individuals were more evenly distributed among the species present at these stations in relation to the inshore stations. The seasonal variation in equitability indices was greatest at inshore stations.

Seasonal changes in the number of species observed at a station appeared to be related to the distance of the station from shore. At inshore stations, the greatest number of species was found in the summer months. At offshore stations, the greatest number of species frequently occurred in the winter months.

A Comparison of All Three Transects

The inclusion of data from transect 2 in this study did not appear to significantly alter any conclusions drawn on the seasonal and spatial trends of the zooplankton. Annual and three year means with coefficients of variation for the stations on all three transects are given in Tables 2 and 3 for zooplankton and copepods, respectively. Data on the percentage of copepods are shown in Table 4. The densities of the zooplankton at the stations on transects 2 and 3 were low in relation to the values from transect 1. This was probably due in part to the extremely high values

TABLE 2

Zooplankton densities ($\#/m^3$) at all 11 stations off southern Texas from 1963 to 1965. Statistics are given for each year and for the three years combined; n = number of monthly sampling dates, \bar{X} = mean, S.D. = standard deviation, and C.V. = coefficient of variation (S.D. \times 100 / \bar{X}).

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	2209	1188	1652	919	2556	1171	1072	1136	3280	2122	1628
	S.D.	1884	409	907	726	2185	485	506	1149	3609	1713	1116
	C.V.	85%	34%	55%	80%	86%	41%	47%	101%	110%	81%	69%
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	3595	1597	1953	1460	1965	2074	1573	1143	3584	4246	2328
	S.D.	5450	1252	931	1149	1378	1082	1226	455	2326	3580	1378
	C.V.	152%	78%	48%	79%	70%	52%	78%	40%	65%	84%	59%
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	1957	1585	1404	1002	1175	1495	1347	909	1852	2452	1199
	S.D.	1534	679	1102	465	837	581	992	816	1905	1475	802
	C.V.	78%	43%	79%	46%	71%	39%	74%	90%	103%	60%	67%
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	2675	1462	1697	1145	1901	1580	1337	1080	3012	3085	1802
	S.D.	3599	910	970	870	1605	825	956	826	2702	2699	1220
	C.V.	135%	62%	57%	76%	84%	52%	71%	76%	90%	87%	68%

TABLE 3

Copepod densities ($\#/m^3$) at all 11 stations off southern Texas from 1963 to 1965. Statistics are given for each year and for the three years combined; n = number of monthly sampling dates, \bar{X} = mean, S.D. = standard deviation, and C.V. = coefficient of variation ($S.D. \times 100 / \bar{X}$).

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	1155	662	878	584	1583	702	614	675	1623	1250	905
	S.D.	938	331	517	410	1476	332	347	607	2476	1238	678
	C.V.	81%	50%	59%	70%	93%	47%	57%	90%	152%	99%	75%
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	2865	843	973	830	1364	978	824	677	2290	2626	1317
	S.D.	4908	642	524	637	1164	488	449	311	1414	2154	843
	C.V.	171%	76%	54%	77%	85%	50%	54%	46%	62%	82%	64%
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	1388	877	690	605	571	939	596	542	918	1580	603
	S.D.	1392	408	512	382	362	513	354	447	871	1029	441
	C.V.	100%	47%	74%	63%	63%	55%	59%	82%	95%	65%	73%
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	1876	793	860	682	1180	873	691	641	1705	1908	994
	S.D.	3172	496	514	500	1152	451	393	456	1747	1693	740
	C.V.	169%	63%	60%	73%	98%	52%	57%	71%	102%	89%	74%

TABLE 4

Percent of copepods in the zooplankton at all 11 stations off southern Texas from 1963 to 1965. Statistics are given for each year and for the three years combined; n = number of monthly sampling dates, \bar{X} = mean, and S.D. = standard deviation.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	57%	54%	54%	66%	62%	61%	57%	63%	49%	52%	55%
	S.D.	18.6	15.7	10.5	8.5	20.4	16.1	8.9	11.9	22.5	17.5	10.5
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	63%	52%	50%	57%	64%	50%	58%	57%	67%	61%	57%
	S.D.	22.6	11.2	11.1	9.9	13.5	15.7	12.3	14.0	17.8	13.4	9.3
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	68%	55%	49%	60%	55%	61%	49%	65%	53%	62%	51%
	S.D.	22.4	7.6	8.7	14.4	19.1	15.1	10.5	12.0	22.4	10.5	11.6
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	62%	53%	51%	61%	60%	57%	55%	61%	58%	59%	55%
	S.D.	20.9	11.8	10.1	11.3	17.5	16.0	11.1	12.7	21.5	14.1	10.1

at station W60 which was the shallowest station analysed (7m). The other stations on transect 1 (W61 and W62), however, also exhibited higher standing crops than stations of comparable depth on transects 2 and 3. Stations W61 and W62 were located relatively close to the coast and this may have been responsible for these high population levels. The general trend of decreasing densities with the distance from shore was present on all transects. Seasonal variability of zooplankton and copepods was generally greatest at the stations closest to the coast. High values were also obtained, however, at stations W57 and W58. These stations were closest to open ocean waters and the high variability may have been the result of periodic intrusions of oceanic populations.

The percentage of copepods was greatest at the stations closest to and farthest away from the coast. The intermediate stations generally had relatively low percentages. The seasonal variability in the percentage of copepods was greatest at the nearshore stations.

In the total 317 samples analysed at the 11 stations, copepods made up 58.5 percent of the zooplankton followed by Larvacea (8.6%), Mollusca (8.1%), *Euconchoecia* (Ostracoda) (5.9%), and Chaetognatha (4.8%). These five groups combined to form 85.8 percent of the zooplankton. When only transects 1 and 3 were examined, these five groups made up over 94 percent of the plankton. This difference was due to the high densities and percentages of molluscs and larvaceans found at the nearshore stations on transect 1.

Annual and three year means for Larvacea, Mollusca, *Euconchoecia*, and Chaetognatha are shown in Tables 5, 6, 7, and 8, respectively. The larvaceans and the chaetognaths were fairly evenly distributed spatially. Seasonal variability was generally greatest at inshore stations. The molluscs exhibited a high seasonal variability at all stations with large

TABLE 5

The density ($\#/m^3$) of Larvacea at all 11 stations from 1963 to 1965. Statistics are given for each year and for the three years combined; n= number of monthly sampling dates, \bar{X} = mean, S.D.= standard deviation, C.V.= coefficient of variation ($S.D.\times 100/\bar{X}$), F.O.= frequency of occurrence, and %= percentage of the zooplankton.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	134	61	75	48	254	158	120	99	235	112	85
	S.D.	209	55	51	46	526	202	160	64	392	148	73
	C.V.	156%	90%	68%	96%	207%	128%	133%	65%	167%	132%	86%
	F.O. %	100% 6%	100% 5%	100% 5%	100% 5%	100% 10%	100% 14%	100% 11%	100% 9%	100% 7%	100% 5%	100% 5%
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	97	109	215	149	180	402	206	152	274	420	284
	S.D.	162	99	125	119	135	421	193	74	358	636	231
	C.V.	167%	91%	58%	80%	75%	105%	94%	49%	131%	151%	81%
	F.O. %	90% 3%	100% 7%	100% 11%	100% 10%	100% 9%	100% 19%	100% 13%	100% 13%	100% 8%	100% 10%	100% 12%
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	74	101	107	93	245	116	50	46	128	163	134
	S.D.	74	129	141	95	299	137	60	30	237	211	123
	C.V.	100%	128%	132%	102%	122%	118%	120%	65%	185%	129%	92%
	F.O. %	100% 4%	100% 6%	100% 8%	100% 9%	100% 21%	100% 8%	100% 4%	100% 5%	100% 7%	100% 1%	100% 11%
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	103	92	138	99	225	225	135	106	221	252	179
	S.D.	159	95	125	100	340	299	165	74	335	440	184
	C.V.	155%	103%	91%	101%	151%	133%	122%	70%	151%	175%	103%
	F.O. %	96% 4%	100% 6%	100% 8%	100% 9%	100% 12%	100% 14%	100% 10%	100% 10%	100% 7%	100% 8%	100% 10%

TABLE 6

The density ($\#/m^3$) of Molluscs at all 11 stations from 1963 to 1965.
See legend from Table 5.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	288	96	100	30	333	134	37	26	773	213	175
	S.D.	268	71	100	28	398	213	42	25	1385	172	233
	C.V.	93%	74%	100%	92%	119%	159%	113%	97%	179%	81%	133%
	F.O. %	100% 13%	100% 8%	100% 6%	100% 3%	100% 13%	100% 11%	100% 3%	100% 29%	100% 24%	100% 10%	100% 11%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	260	225	224	91	139	282	68	53	462	437	148
	S.D.	347	364	367	151	122	473	93	40	713	728	102
	C.V.	133%	162%	164%	166%	87%	168%	137%	75%	154%	167%	69%
	F.O. %	100% 7%	100% 14%	100% 11%	100% 6%	100% 7%	100% 14%	100% 4%	100% 5%	100% 13%	100% 10%	100% 6%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	180	201	112	61	139	174	85	65	288	424	73
	S.D.	290	111	64	73	264	148	133	102	337	441	59
	C.V.	161%	55%	57%	119%	190%	85%	156%	157%	117%	104%	81%
	F.O. %	100% 9%	100% 13%	100% 8%	100% 6%	100% 12%	100% 12%	100% 6%	100% 7%	100% 16%	100% 17%	100% 6%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	248	177	151	62	202	197	62	47	510	367	138
	S.D.	297	248	239	102	285	306	91	59	902	524	152
	C.V.	120%	140%	158%	165%	141%	155%	147%	125%	177%	143%	110%
	F.O. %	100% 9%	100% 12%	100% 9%	100% 5%	100% 11%	100% 12%	100% 5%	100% 4%	100% 17%	100% 12%	100% 8%

TABLE 7

The density ($\#/m^3$) of *Euconchoecia* at all 11 stations from 1963 to 1965.
See legend from Table 5.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	6	70	317	95	2	29	138	196	9	205	233
	S.D.	10	102	292	177	3	43	199	466	17	409	349
	C.V.	175%	145%	92%	186%	150%	147%	144%	238%	189%	199%	150%
	F.O. %	78%	100%	100%	82%	44%	67%	100%	100%	67%	88%	89%
		0.3%	6%	19%	10%	0.07%	3%	13%	17%	0.3%	10%	14%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	14	145	164	145	24	95	198	89	0.7	93	235
	S.D.	33	227	157	251	75	168	394	97	1.2	249	324
	C.V.	238%	156%	96%	173%	311%	177%	199%	109%	171%	268%	138%
	F.O. %	50%	92%	100%	100%	30%	89%	100%	100%	33%	82%	82%
		0.4%	9%	8%	10%	1%	5%	13%	8%	0.02%	2%	10%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	0.4	33	280	42	0.6	24	331	63	0.6	19	214
	S.D.	1.1	29	440	57	1.3	21	430	145	0.9	19	379
	C.V.	283%	89%	157%	134%	222%	86%	130%	230%	152%	100%	177%
	F.O. %	29%	100%	100%	88%	22%	78%	100%	100%	38%	75%	86%
		0.02%	2%	20%	4%	0.05%	2%	25%	7%	0.03%	0.8%	18%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	8	93	247	99	9	50	211	120	3	104	229
	S.D.	22	163	302	187	45	102	345	290	10	273	334
	C.V.	270%	175%	122%	189%	496%	204%	164%	242%	333%	262%	146%
	F.O. %	54%	96%	100%	91%	32%	78%	100%	100%	45%	81%	85%
		0.3%	6%	15%	9%	0.5%	3%	16%	11%	0.1%	3%	13%

TABLE 8

The density ($\#/m^3$) of Chaetognaths at all 11 stations from 1963 to 1965.
See legend from Table 5.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	82	61	57	39	45	45	45	36	70	58	63
	S.D.	112	40	31	53	38	49	33	32	86	57	49
	C.V.	136%	66%	54%	136%	84%	108%	72%	88%	123%	99%	78%
	F.O. %	100% 4%	100% 5%	100% 3%	100% 4%	100% 2%	100% 4%	100% 4%	100% 3%	100% 2%	100% 3%	100% 4%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	96	88	145	68	96	144	94	75	224	177	94
	S.D.	132	76	127	71	108	179	164	74	331	181	86
	C.V.	138%	86%	88%	104%	112%	124%	175%	98%	148%	103%	91%
	F.O. %	100% 3%	100% 6%	100% 7%	100% 5%	90% 5%	100% 7%	100% 6%	100% 7%	100% 6%	91% 4%	100% 4%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	99	101	79	66	59	97	78	135	103	140	73
	S.D.	170	96	95	50	87	98	78	180	119	113	55
	C.V.	172%	95%	120%	76%	147%	101%	100%	133%	115%	81%	75%
	F.O. %	100% 5%	100% 6%	100% 6%	100% 7%	100% 5%	100% 6%	100% 6%	100% 15%	100% 6%	100% 6%	100% 6%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	92	83	97	57	68	95	72	77	143	131	78
	S.D.	131	72	101	59	84	123	110	107	232	140	67
	C.V.	143%	86%	104%	104%	123%	130%	153%	139%	162%	107%	85%
	F.O. %	100% 3%	100% 6%	100% 6%	100% 5%	96% 4%	100% 6%	100% 5%	100% 7%	100% 5%	96% 4%	100% 4%

densities at the inshore stations and low values offshore. The spatial distribution of *Euconchoecia*, in contrast to Mollusca, showed very low values at the stations closest to shore. The highest densities were found at the stations with a depth of 46 meters.

Annual and three year means for the seven dominant species of female copepods are listed in Tables 9 through 15. In the 317 samples analysed, these seven species made up 55.4 percent of the adult female copepods. *Paracalanus indicus* (16.8%) was most abundant followed by *P. quasimodo* (12.8%), *Acartia tonsa* (7.1%), *Oncaea media* (7.0%), *Clausocalanus furcatus* (7.0%), *Paracalanus crassirostris* (6.2%), and *Oithona nana* (4.7%). The spatial distributions of *P. indicus* and *P. quasimodo* were fairly even over the sampling area. The stations of intermediate depth appeared to have the lowest seasonal variability. The three species, *A. tonsa*, *O. nana*, and *P. crassirostris*, were abundant at inshore stations and infrequently found offshore. They generally exhibited a high seasonal variability. *C. furcatus* and *O. media* were seldom found in great numbers at the stations closest to shore although they were fairly evenly distributed spatially at the other stations. In the shallow coastal waters off the west coast of Florida, Grice (1960) also reported the inshore species found in this study as dominant forms in the plankton. These included *P. crassirostris*, *P. parvus*, *A. tonsa* and *O. nana*.

The measure of abundance used in this study (density) gave us values which decreased with the distance from shore for total zooplankton and many of the various taxa examined. The oblique tows employed, provided a measure of density which was an average value for the water column sampled at any particular station. The standing crop of an area, however, might also be represented by the number of organisms under a square meter of surface area. A rough estimate of this value can be obtained by multiplying

TABLE 9

The density ($\#/m^3$) of *Paracalanus indicus* at all 11 stations from 1963 to 1965. Statistics are given for each year and for the three years combined; n= number of monthly sampling dates, \bar{X} = mean, S.D.= standard deviation, C.V.= coefficient of variation (S.D. $\times 100/\bar{X}$), F.O.= frequency of occurrence, and % = the percentage of the adult female copepods.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	39	40	37	14	58	23	34	46	45	67	47
	S.D.	89	62	55	24	97	28	46	104	43	54	42
	C.V.	228%	154%	148%	169%	168%	123%	135%	226%	95%	81%	89%
	F.O. %	89% 9%	100% 13%	100% 12%	100% 6%	100% 16%	89% 11%	100% 14%	100% 19%	100% 8%	100% 15%	100% 13%
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	56	34	39	16	90	73	36	25	197	251	92
	S.D.	82	30	34	35	102	92	67	23	329	303	134
	C.V.	147%	87%	87%	217%	113%	126%	187%	91%	167%	121%	146%
	F.O. %	90% 6%	100% 10%	100% 9%	100% 4%	90% 21%	100% 21%	92% 11%	92% 9%	83% 22%	100% 23%	100% 15%
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	49	52	85	19	39	180	40	16	130	328	61
	S.D.	48	53	88	14	39	157	45	17	162	524	43
	C.V.	98%	101%	103%	76%	100%	87%	112%	105%	124%	160%	71%
	F.O. %	100% 10%	100% 16%	100% 30%	100% 8%	100% 20%	100% 47%	100% 14%	100% 7%	100% 29%	100% 46%	100% 23%
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	49	40	52	16	64	92	36	30	131	219	69
	S.D.	75	46	62	26	85	122	53	64	232	348	91
	C.V.	153%	116%	119%	162%	133%	132%	148%	212%	177%	159%	132%
	F.O. %	92% 7%	100% 13%	100% 15%	100% 5%	96% 13%	96% 29%	97% 13%	98% 12%	93% 20%	100% 28%	100% 16%

TABLE 10

The density ($\#/m^3$) of *Paracalanus quasimodo* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	25	32	39	22	25	47	27	31	131	87	29
	S.D.	29	34	32	39	30	67	25	52	269	129	36
	C.V.	117%	106%	82%	178%	120%	142%	91%	167%	205%	148%	123%
	F.O. %	89% 6%	100% 11%	100% 12%	91% 10%	100% 7%	100% 22%	100% 11%	100% 13%	100% 23%	100% 19%	100% 8%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	61	80	43	51	36	36	45	42	89	173	100
	S.D.	106	112	40	104	46	53	41	68	160	394	133
	C.V.	174%	140%	93%	204%	128%	146%	92%	162%	180%	228%	133%
	F.O. %	100% 6%	100% 23%	100% 10%	100% 13%	90% 8%	100% 10%	100% 14%	100% 15%	83% 10%	100% 16%	91% 16%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	36	53	35	24	13	42	57	42	64	81	54
	S.D.	40	31	29	36	19	36	73	60	108	131	47
	C.V.	111%	58%	82%	151%	143%	85%	128%	143%	169%	161%	88%
	F.O. %	100% 7%	100% 17%	100% 12%	100% 10%	89% 7%	100% 11%	100% 20%	88% 19%	100% 14%	100% 11%	100% 20%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	42	58	39	33	25	42	42	38	95	120	64
	S.D.	70	78	34	70	34	51	47	59	185	266	93
	C.V.	168%	135%	86%	211%	137%	122%	112%	155%	195%	222%	146%
	F.O. %	96% 6%	100% 18%	100% 11%	97% 11%	93% 8%	100% 13%	100% 15%	97% 15%	93% 14%	100% 15%	96% 15%

TABLE 11

The density ($\#/m^3$) of *Acartia tonsa* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	42	12	2	0.3	75	0.6	0.5	0.9	5	0.8	3
	S.D.	90	28	3	0.9	200	1.1	0.9	1.2	9	1	7
	C.V.	216%	231%	163%	332%	266%	168%	206%	134%	190%	138%	234%
	F.O. %	78% 10%	44% 4%	30% 0.6%	27% 0.1%	56% 21%	33% 0.3%	56% 0.2%	67% 0.4%	56% 0.8%	50% 0.2%	44% 0.8%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	586	8	4	1	17	13	4	2	46	6	6
	S.D.	1606	26	13	3	34	31	12	6	86	8	15
	C.V.	274%	327%	338%	290%	198%	227%	289%	314%	189%	142%	238
	F.O. %	90% 60%	33% 2%	17% 0.9%	33% 0.3%	60% 4%	33% 4%	42% 1%	33% 0.7%	75% 5%	45% 0.5%	45% 1%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	47	59	5	2	6	10	5	8	7	6	2
	S.D.	79	124	11	3	5	16	8	16	8	10	2
	C.V.	167%	211%	208%	170%	74%	159%	169%	210%	104%	162%	109%
	F.O. %	100% 9%	86% 19%	44% 2%	56% 0.6%	78% 3%	56% 3%	38% 2%	25% 3%	100% 2	50% 0.9%	86% 0.6%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	252	22	4	0.9	32	8	3	3	22	4	4
	S.D.	1002	66	10	2	115	20	9	9	58	8	10
	C.V.	397%	302%	277%	258%	359%	246%	281%	297%	260%	174%	262%
	F.O. %	88% 38%	50% 7%	29% 1%	38% 0.3%	64% 10%	41% 3%	42% 1%	39% 1%	76% 3%	48% 0.6%	56% 0.9%

TABLE 12

The density ($\#/m^3$) of *Oncaea media* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	53	11	15	20	14	16	15	15	15	13	30
	S.D.	157	7	18	26	25	27	18	16	29	14	34
	C.V.	275%	64%	120%	128%	178%	165%	116%	113%	194%	104%	113%
	F.O. %	56% 12%	100% 4%	100% 5%	100% 9%	56% 4%	78% 8%	100% 6%	100% 6%	78% 3%	75% 3%	89% 8%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	5	50	44	42	4	35	39	22	9	182	62
	S.D.	8	109	66	92	6	43	53	20	18	478	100
	C.V.	167%	217%	152%	217%	179%	124%	140%	90%	193%	263%	162%
	F.O. %	56% 5%	100% 15%	100% 11%	100% 11%	50% 0.8%	89% 10%	92% 12%	100% 8%	42% 1%	82% 17%	91% 10%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	6	20	29	34	6	36	27	14	2	21	17
	S.D.	13	20	48	69	13	58	44	20	2	24	24
	C.V.	227%	100%	166%	201%	211%	156%	163%	139%	105%	116%	138%
	F.O. %	43% 1%	86% 6%	89% 10%	100% 14%	67% 3%	67% 9%	88% 10%	100% 6%	75% 0.4%	88% 3%	100% 7%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	22	30	30	33	8	29	28	17	9	84	40
	S.D.	92	72	50	67	17	43	41	18	20	308	68
	C.V.	422%	240%	166%	207%	212%	148%	149%	106%	220%	366%	173%
	F.O. %	50% 3%	96% 9%	97% 9%	100% 11%	6% 2%	74% 9%	94% 10%	100% 7%	62% 1%	81% 11%	93% 9%

TABLE 13

The density ($\#/m^3$) of *Clausocalanus furcatus* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	0.2	61	52	36	0.9	36	51	24	2	14	21
	S.D.	0.7	133	37	36	2	57	76	22	2	22	20
	C.V.	30%	218%	72%	98%	173%	158%	148%	93%	131%	159%	93%
	F.O. %	33%	100%	100%	100%	44%	67%	100%	100%	78%	88%	89%
		0.1%	21%	16%	16%	0.2%	17%	21%	10%	0.3%	3%	6%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	11	32	93	82	29	38	63	50	6	23	54
	S.D.	35	61	121	91	63	57	67	54	18	37	60
	C.V.	307%	192%	131%	111%	220%	149%	107%	108%	273%	164%	109%
	F.O. %	30%	100%	100%	100%	30%	78%	92%	100%	33%	82%	100%
		1%	9%	22%	21%	7%	11%	19%	18%	0.7%	2%	9%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	0.9	7	13	18	2	4	12	18	3	28	6
	S.D.	2	9	13	20	4	6	13	21	6	73	6
	C.V.	217%	129%	101%	113%	219%	135%	105%	114%	215%	259%	112%
	F.O. %	29%	71%	89%	100%	44%	67%	100%	100%	50%	88%	100%
		0.2%	2%	5%	7%	0.9%	1%	4%	8%	0.6%	4%	2%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	5	35	57	48	11	26	46	32	4	22	31
	S.D.	22	85	83	65	39	48	64	39	12	46	44
	C.V.	462%	242%	147%	135%	350%	182%	139%	121%	295%	213%	143%
	F.O. %	31%	93%	97%	100%	39%	70%	97%	100%	52%	85%	96%
		0.7%	11%	16%	16%	3%	8%	16%	13%	0.6%	3%	7%

TABLE 14

The density ($\#/m^3$) of *Paracalanus crassirostris* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	54	2	0.3	2	58	1	0.7	0.3	31	19	3
	S.D.	61	2	1	7	87	1	0.8	0.7	30	35	5
	C.V.	113%	124%	316%	316%	148%	114%	108%	237%	982%	190%	165%
	F.O. %	100%	67%	10%	18%	89%	56%	64%	18%	89%	75%	78%
		13%	0.6%	0.1%	0.9%	16%	0.6%	0.3%	0.4%	5%	4%	0.8%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	40	3	0.8	0.2	36	7	4	0.4	202	35	5
	S.D.	70	6	1	0.4	88	9	8	0.5	360	58	8
	C.V.	118%	232%	143%	234%	243%	139%	215%	124%	178%	166%	148%
	F.O. %	90%	42%	42%	25%	90%	89%	42%	42%	83%	91%	91%
		4%	0.8%	0.2%	0.04%	8%	2%	1%	0.1%	22%	3%	0.9%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	169	4	0.3	0.1	67	20	6	3	42	49	14
	S.D.	341	4	0.5	0.3	103	22	15	9	38	85	29
	C.V.	201%	99%	150%	30%	155%	108%	251%	271%	90%	175%	198%
	F.O. %	100%	71%	33%	22%	100%	67%	38%	38%	100%	75%	86%
		33%	1%	0.1%	0.04%	34%	5%	2%	2%	9%	7%	5%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	80	3	0.52	0.81	53	9	3	1	105	34	7
	S.D.	182	5	0.96	4	90	16	9	5	241	61	15
	C.V.	228%	174%	186%	478%	170%	166%	279%	411%	231%	178%	226%
	F.O. %	96%	57%	29%	22%	93%	70%	48%	32%	90%	81%	85%
		12%	0.8%	0.1%	0.3%	16%	3%	1%	0.4%	16%	4%	2%

TABLE 15

The density ($\#/m^3$) of *Oithona nana* at all 11 stations from 1963 to 1965.
See legend from Table 9.

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	\bar{n}	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	75	6	3	1	55	12	5	0.8	47	31	3
	S.D.	68	6	3	3	69	11	10	0.9	43	81	4
	C.V.	90%	86%	105%	178%	125%	93%	212%	107%	92%	261%	114%
	F.O. %	100% 18%	89% 2%	70% 0.9%	64% 0.6%	89% 15%	89% 6%	64% 2%	82% 0.7%	100% 8%	63% 7%	78% 0.9%
1964	\bar{n}	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	50	4	3	1	57	28	5	1	92	33	17
	S.D.	108	4	3	2	83	54	9	2	153	41	34
	C.V.	216%	112%	100%	133%	146%	191%	189%	115%	167%	127%	203%
	F.O. %	80% 5%	75% 1%	67% 0.7%	75% 0.3%	90% 13%	78% 8%	92% 1%	67% 0.5%	92% 10%	82% 3%	54% 3%
1965	\bar{n}	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	39	9	2	0.3	11	15	4	3	29	17	2
	S.D.	51	5	2	0.5	9	13	10	6	44	17	4
	C.V.	132%	56%	92%	150%	88%	90%	262%	238%	156%	100%	178%
	F.O. %	100% 8%	86% 3%	78% 0.8%	56% 0.1%	89% 6%	78% 4%	50% 1%	38% 1%	100% 6%	100% 2%	86% 0.9%
Total	\bar{n}	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	56	6	3	1	42	18	5	2	60	28	9
	S.D.	81	5	3	2	65	32	10	3	105	50	22
	C.V.	145%	86%	99%	173%	156%	176%	207%	212%	174%	183%	263%
	F.O. %	92% 8%	82% 2%	71% 0.8%	66% 0.4%	89% 12%	81% 6%	71% 2%	65% 0.6%	97% 9%	81% 3%	70% 2%

the density by the depth of the station in meters. Three year mean values for the dominant groups of zooplankton and species of copepods at the 11 stations are given in numbers per m^2 in Tables 16 and 17. As might be expected, these values often reversed the frequently found trend of decreasing density with the depth of the station and showed an increase in total abundance with depth.

The mean number of species of adult female copepods and the seasonal variability of these values are shown in Table 18 for the 11 stations in this study. These values show a clear trend of increasing species diversity with the distance from shore. The highest coefficients of variation, which measure some component of seasonal variability, were generally found at the inshore stations.

A Comparison with the Current BLM STOCS Zooplankton Study

The current Bureau of Land Management study being conducted (1975-1977) on the zooplankton of the South Texas Outer Continental Shelf, differs in several important respects from the historical project. Historical samples were taken with a wire meshed (approximately 200μ) sampling device which had a mouth diameter of 40.5 centimeters. The sampling gear used in the BLM study consisted of a one meter net (mouth opening) with 233μ nylon netting. These differences should have theoretically resulted in slightly larger organisms being captured in the BLM study.

Spatially, the 11 stations of the historical zooplankton project covered an area closer to the coast and slightly to the north of the BLM sampling area. The greatest difference between the two studies, however, was in the frequency of sampling. Samples for the historical project were taken monthly. Monthly samples were also taken on transect II of the BLM study, but the other three transects were sampled seasonally (three times per year). The extreme monthly variability exhibited in the

TABLE 16

Three year mean abundances (x100) under a square meter of surface area for the dominant groups of zooplankton. %= the percentage of the total from 317 samples.

	Transect 3				Transect 2				Transect 1			%
	W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62	
Zooplankton	374	409	780	836	266	442	615	788	211	710	829	100%
Copepoda	263	222	396	498	165	244	318	468	119	439	457	57.2%
Larvacea	14	26	64	72	31	63	62	77	16	58	82	9.0%
<i>Euconchoecia</i>	1	26	113	72	1	14	97	88	2	24	105	8.9%
Mollusca	35	50	70	45	28	55	28	34	36	84	63	8.3%
Chaetognatha	13	23	45	42	9	27	33	56	10	30	36	5.2%

TABLE 17

Three year mean abundances under a square meter of surface area for the dominant adult female copepods. %= the percentage of the total from 317 samples.

	Transect 3				Transect 2				Transect 1			%
	W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62	
Adult Females	9203	8986	15974	21264	4662	8752	13111	18599	4712	18150	20015	100%
<i>Paracalanus indicus</i>	680	1129	2386	1166	890	2569	1677	2211	920	5039	3159	14.9%
<i>Paracalanus quasimodo</i>	583	1622	1810	2439	352	1165	1911	2788	665	2763	2958	13.3%
<i>Clausocalanus furcatus</i>	65	983	2601	3504	156	734	2109	2371	28	497	1416	10.5%
<i>Oncaea media</i>	305	842	1386	2373	110	813	1264	12726	63	1935	1820	8.5%
<i>Oithona plumifera</i>	23	439	1447	1601	28	290	877	1484	11	260	746	5.2%
<i>Acartia tonsa</i>	3534	616	166	68	452	228	142	219	156	101	177	3.8%

TABLE 18

The number of species of female copepods at all 11 stations off southern Texas from 1963 to 1965. Statistics are given for each year and for the three years combined; n = number of monthly sampling dates, \bar{X} = mean, S.D. = standard deviation, and C.V. = coefficient of variation (S.D. x 100 / \bar{X}).

Year / Station		Transect 3				Transect 2				Transect 1		
		W13	W14	W15	W57	W24	W23	W22	W58	W60	W61	W62
1963	n	9	9	10	11	9	9	11	11	9	8	9
	\bar{X}	17.1	22.4	30.9	34.1	14.2	17.0	30.4	37.7	21.0	22.8	31.8
	S.D.	6.2	4.5	5.3	7.3	4.7	5.0	7.8	10.4	5.2	4.9	9.4
	C.V.	36%	20%	17%	21%	33%	29%	26%	28%	25%	21%	30%
1964	n	10	12	12	12	10	9	12	12	12	11	11
	\bar{X}	14.3	24.9	26.8	39.1	12.9	16.9	27.3	31.3	13.2	21.1	33.6
	S.D.	6.9	6.7	5.4	14.2	4.7	6.0	7.5	5.3	5.0	6.6	11.0
	C.V.	48%	27%	20%	36%	36%	36%	27%	17%	38%	31%	33%
1965	n	7	7	9	9	9	9	8	8	8	8	7
	\bar{X}	15.1	22.9	33.2	50.8	11.8	17.7	33.4	36.5	18.5	20.9	34.7
	S.D.	3.9	2.0	7.9	14.5	4.1	3.9	10.3	9.4	3.3	5.6	9.3
	C.V.	26%	9%	24%	29%	35%	22%	31%	26%	18%	27%	27%
Total	n	26	28	31	32	28	27	31	31	29	27	27
	\bar{X}	15.5	23.6	30.0	40.1	13.0	17.2	30.0	34.9	17.1	21.5	33.3
	S.D.	5.9	5.2	6.6	13.8	4.5	4.9	8.4	8.7	5.7	5.7	9.7
	C.V.	38%	22%	22%	34%	34%	28%	28%	25%	33%	27%	29%

historical samples and on transect II of the BLM study made it difficult to compare these data to data from transects I, III, and IV of the BLM study, either temporally or spatially.

Despite the difficulties mentioned above, a comparison between the results from the two studies showed several general trends. A consistent decrease in the density of the zooplankton with the distance from shore was evident in both studies. The five dominant groups of zooplankton were the Copepoda, Larvacea, Ostracoda, Mollusca, and Chaetognatha. Although the Larvacea were approximately three to four times more abundant in the historical samples, the densities of the other groups (from annual means) appeared similar in the two studies. The inshore stations in the historical project were considerably closer to the coast than those of the BLM study. Historical samples showed extremely low numbers of *Euconchoecia* at these inshore stations. These low population levels were not observed at the inshore stations of the BLM study.

The abundances and distributions of the dominant species of copepods were not as similar as those of the major groups of zooplankton. Although *Paracalanus indicus* and *P. quasimodo* were the most abundant copepods in both studies, the other dominant adult female copepods shifted from a group characterized by inshore forms in the historical project to a group with more representatives of offshore areas in the BLM study. These "offshore" forms included *Paracalanus aculeatus*, *Clausocalanus jobei*, *Oncaea venusta*, *O. mediterranea*, and *Oithona plumifera*.

Results concerning seasonal changes in the zooplankton of the historical project could only be realistically compared to results from transect II in the BLM study where samples were taken approximately every month. Densities of zooplankton and copepods showed similar seasonal distributions with peak abundances occurring in the spring and in the fall. The irregular

nature of seasonal density peaks for individual groups and species of zooplankton made other comparisons difficult.

In both studies, the number of species, the Shannon-Wiener diversity indices, and the equitability indices increased with the distance from the coast. This increase in species diversity plus a general decrease in zooplankton density with the distance from shore was also reported in the Gulf coast waters off South Florida by King (1949).

CONCLUSIONS

- 1) Total zooplankton and copepods exhibited a high seasonal and spatial variability over the sampling period and area. Seasonal peaks in density occurred in the spring and the fall. A general decrease in density with the distance from shore was observed. When the standing crop was calculated on a per m² basis, however, total abundances in the water column increased as the distance from shore increased.
- 2) In the total 317 samples analyzed on all three transects, five dominant groups made up 85.8% of the zooplankton. These included Copepoda (58.5%), Larvacea (8.6%), Mollusca (8.1%), *Euconchoecia* (Ostracoda) (5.9%), and Chaetognatha (4.8%). The Mollusca were most abundant at inshore stations and *Euconchoecia* was generally abundant offshore. The Chaetognatha and Larvacea exhibited a fairly even spatial distribution at the 11 stations examined.
- 3) Calanoids and cyclopoids dominated the copepod fraction of the zooplankton. When data from all of the samples were analyzed, seven species combined to make up 55.4% of the adult female copepods. These included *Paracalanus indicus* (16.8%), *P. quasimodo* (12.8%), *Acartia tonsa* (7.1%), *Oncaea media* (7.0%), *Clausocalanus furcatus* (7.0%), *Paracalanus crassirostris* (6.2%), and *Oithona nana* (4.7%). *P. indicus* and *P. quasimodo* were

distributed relatively evenly over the sampling area. The other dominant species could be classified into an inshore group including *A. tonsa*, *P. crassirostris*, and *O. nana* and an offshore group including *O. media* and *C. furcatus*.

4) The number of species, the Shannon-Wiener diversity indices, and the equitability indices all increased as the distance from shore increased. Seasonal variability in these values was generally greatest at the inshore stations.

5) The sampling procedures and equipment used in the historical zooplankton project differed significantly from those employed in the current BLM STOCS zooplankton study. Despite these differences the results were generally similar in both studies.

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TABLE 1-1
 SAMPLING DATA AT STATION W60

Cruise No.	Date	Net in (Local Time)	Tow Duration (Min. & Sec.)	Volume of Water Filtered (m ³)	Subsample Size	Number of Zooplankton in Subsample
G-2	3-9-63	17:30	10'00"	25	1/4	2978
G-3	4-5-63	03:20	10'05"	27	1/16	3254
G-6	6-28-63	05:10	10'25"	30	1/32	2298
G-7	7-15-63	15:30	10'30"	50	1/64	2539
G-8	8-29-63	05:20	10'27"	50	1/64	6427
G-9	10-04-63	01:00	11'37"	41	1/128	3360
G-10	11-03-63	16:50	9'37"	56	1/32	2256
G-11	12-02-63	11:45	9'55"	75	1/16	2112
G-12	12-22-63	02:50	9'56"	67	1/32	2005
G-13	1-29-64	17:30	9'47"	71	1/128	1904
G-14	2-20-64	20:05	10'00"	54	1/16	1391
G-15	3-20-64	01:50	10'37"	56	1/64	2034
G-16	4-17-64	03:45	9'55"	43	1/128	2396
G-17	5-24-64	15:00	9'20"	22	1/64	2683
G-18	6-26-64	21:25	11'30"	57	1/128	1524
G-19	7-18-64	01:25	10'06"	23	1/64	1375
G-20	8-31-64	13:30	15'48"	102	1/64	2643
G-21	9-25-64	22:35	12'00"	88	1/256	1650

TABLE 1-1 CONT.'D

G-22	10-30-64	06:15	9'57"	39	1/128	1717
G-23	11-24-64	11:50	10'30"	61	1/128	1201
G-24	12-17-64	19:25	10'15"	61	1/64	1669
G-25	1-09-65	03:55	20'00"	66	1/128	1627
G-26	2-28-65	17:05	10'00"	108	1/16	2560
G-27	3-23-65	01:35	9'46"	65	1/32	2447
G-28	4-25-65	02:05	9'45"	49	1/128	2288
G-29	5-31-65	04:00	9'45"	86	1/32	3649
G-30	6-13-65	21:05	10'31"	40	1/32	2348
G-32	8-13-65	20:25	12'30"	77	1/16	3172
G-35	12-11-65	14:50	9'56"	71	1/32	2687

TABLE 1-2
 SAMPLING DATA AT STATION W61

Cruise No.	Date	Net in (Local Time)	Tow Duration (Min. & Sec.)	Volume of Water Filtered (m ³)	Subsample Size	Number of Zooplankton in Subsample
G-2	3-09-63	19:25	20'30"	70	1/8	2313
G-3	4-05-63	00:00	20'10"	41	1/128	1810
G-6	6-28-63	02:40	19'50"	50	1/128	1413
G-8	8-29-63	08:00	21'22"	98	1/128	3009
G-9	10-04-63	02:30	19'55"	57	1/128	1592
G-10	11-03-63	18:40	19'05"	87	1/64	1464
G-11	12-02-63	09:40	20'01"	97	1/64	2058
G-12	12-22-63	00:30	20'26"	134	1/32	5333
G-13	1-29-64	15:40	19'11"	68	1/32	1918
G-15	3-19-64	23:50	20'08"	62	1/64	1959
G-16	4-17-64	01:45	20'10"	92	1/256	2267
G-17	5-24-64	11:10	19'37"	70	1/32	2751
G-18	6-26-64	19:20	20'54"	97	1/256	2952
G-19	7-17-64	23:30	19'45"	81	1/128	3277
G-20	8-31-64	12:00	13'37"	89	1/64	2920
G-21	9-25-64	21:00	20'47"	88	1/256	2372
G-22	10-30-64	04:25	21'45"	88	1/128	1789
G-23	11-24-64	09:00	15'42"	116	1/256	1050

TABLE 1-2 CONT. 'D

G-24	12-17-64	16:45	20'49"	158	1/128	3723
G-25	1-09-65	01:50	21'35"	122	1/256	1706
G-26	2-28-65	13:35	21'00"	98	1/128	1552
G-27	3-22-65	23:20	20'24"	145	1/64	1541
G-28	4-25-65	00:05	19'33"	78	1/64	3243
G-29	5-30-65	23:00	21'30"	148	1/512	1354
G-30	6-13-65	18:45	24'12"	208	1/128	1244
G-32	8-13-65	18:35	21'00"	77	1/256	2270
G-35	12-11-65	12:50	22'10"	145	1/128	1634

TABLE 1-3
 SAMPLING DATA AT STATION W62

Cruise No.	Date	Net in (Local Time)	Tow Duration (Min. & Sec.)	Volume of Water Filtered (m ³)	Subsample Size	Number of Zooplankton in Subsample
G-2	3-09-63	23:10	20'00"	46	1/16	2377
G-3	4-04-63	20:25	20'10"	45	1/64	2752
G-6	6-27-63	23:20	20'30"	78	1/16	2874
G-7	7-15-63	08:00	21'00"	109	1/64	2193
G-8	8-29-63	11:30	20'07"	75	1/8	2730
G-9	10-04-63	05:35	21'04"	92	1/32	2503
G-10	11-03-63	22:02	20'14"	113	1/16	5942
G-11	12-02-63	05:30	20'55"	143	1/16	3168
G-12	12-21-63	19:45	19'30"	136	1/64	4858
G-13	1-29-64	12:40	21'24"	102	1/32	3259
G-15	3-19-64	21:00	20'53"	97	1/64	2330
G-16	4-16-64	21:40	21'29"	114	1/64	3086
G-17	5-24-64	09:10	20'06"	75	1/128	3273
G-18	6-26-64	15:40	20'15"	72	1/32	3228
G-19	7-17-64	20:35	20'25"	54	1/32	2480
G-20	8-31-64	07:45	22'56"	124	1/64	3548
G-21	9-26-64	03:05	21'25"	86	1/64	2168
G-22	10-29-64	23:45	21'10"	58	1/64	2869

TABLE 1-3 CONT.'D

G-23	11-24-64	06:00	21'09"	106	1/128	2913
G-24	12-17-64	14:10	21'16"	114	1/32	4146
G-25	1-08-65	22:00	20'08"	172	1/128	3415
G-26	2-28-65	10:50	20'00"	99	1/32	1352
G-27	3-22-65	20:00	21'00"	106	1/64	2646
G-28	4-24-65	21:00	21'07"	92	1/64	3010
G-29	5-30-65	19:00	18'50"	60	1/32	2421
G-30	6-13-65	15:55	20'18"	112	1/128	1696
G-32	8-13-65	13:10	21'56"	174	1/16	3662

TABLE 1-4
 SAMPLING DATA AT STATION W13

Cruise No.	Date	Net In (Local Time)	Tow Duration (Min. & Sec.)	Vol. of Water Filtered (M ³)	Subsample Size	Number of Zooplankton in Subsample
G-3	4-6-63	21:00	21'00"	55	1/64	1434
G-4	5-2-63	18:20	19'48"	38	1/64	3351
G-5	5-22-63	16:07	19'58"	62	1/16	1870
G-6	6-27-63	02:00	20'30"	50	1/8	4438
G-7	7-16-63	01:20	19'33"	71	1/128	2020
G-8	8-28-63	06:15	20'02"	82	1/64	1618
G-9	10-5-63	01:15	20'17"	77	1/128	2672
G-10	11-4-63	15:40	19'37"	136	1/32	5884
G-11	12-1-63	01:50	19'55"	148	1/64	1477
G-13	1-30-64	11:35	20'21"	94	1/64	1245
G-14	2-19-64	08:45	21'30"	94	1/16	1187
G-15	3-21-64	14:20	19'56"	76	1/32	2525
G-16	4-18-64	21:30	20'06"	116	1/128	1713
G-17	5-25-64	08:50	09'36"	59	1/512	2074
G-18	6-27-64	15:35	19'36"	70	1/32	3592
G-19	7-18-64	17:40	19'15"	126	1/64	3523
G-20	9-1-64	06:00	19'30"	100	1/64	1886
G-22	10-31-64	02:20	21'11"	75	1/256	2205

TABLE 1-4 CONT.'D

G-24	12-18-64	12:10	20'06"	171	1/128	2383
G-26	3-1-65	01:15	19'30"	193	1/512	891
G-28	4-25-65	15:55	19'25"	80	1/64	2493
G-29	5-29-65	06:30	20'00"	56	1/64	915
G-30	6-14-65	13:50	19'50"	94	1/32	3689
G-32	8-14-65	13:30	19'42"	112	1/32	1960
G-33	9-12-65	06:10	19'02"	138	1/64	2837
G-35	12-12-65	10:55	20'15"	20	1/64	1613

TABLE 1-5

SAMPLING DATA AT STATION W14

Cruise No.	Date	Net In (Local Time)	Tow Duration (Min. & Sec.)	Volume of Water Filtered (m ³)	Subsample Size	Number of Zooplankton in Subsample
G-3	4-4-63	01:20	20'05"	41	1/32	1838
G-4	5-2-63	14:50	20'25"	92	1/64	1965
G-5	5-21-63	02:00	19'49"	73	1/64	1607
G-6	6-26-63	23:45	19'05"	44	1/32	1773
G-7	7-16-63	06:35	20'31"	107	1/128	1497
G-8	8-30-63	04:00	21'34"	100	1/32	2008
G-9	10-2-63	23:25	21'19"	82	1/32	1576
G-10	11-1-63	01:45	19'40"	88	1/128	934
G-11	11-30-63	22:15	29'22"	116	1/32	2829
G-13	1-28-64	14:45	19'40"	76	1/64	1561
G-14	2-19-64	12:10	20'00"	76	1/8	4119
G-15	3-21-64	19:40	20'31"	107	1/64	2224
G-16	4-16-64	02:00	20'30"	88	1/64	2556
G-17	5-23-64	14:05	20'05"	55	1/8	3566
G-18	6-25-64	21:20	19'54"	97	1/64	3268
G-19	7-17-64	06:05	19'23"	100	1/128	3899
G-20	8-30-64	13:05	15'02"	108	1/32	5216
G-21	9-27-64	20:10	10'24"	75	1/64	2965
G-22	10-29-64	07:25	21'49"	96	1/32	2908

TABLE 1-5 CONT.'D

G-23	11-26-64	00:15	21'36"	121	1/64	1482
G-24	12-16-64	23:20	20'13"	90	1/16	4083
G-25	1-7-65	11:25	20'04"	92	1/64	1640
G-26	2-27-65	11:25	20'32"	193	1/128	2482
G-27	3-22-65	00:15	20'07"	160	1/64	1890
G-28	4-23-65	24:00	20'09"	82	1/128	1490
G-29	5-29-65	09:35	19'25"	120	1/64	4184
G-30	6-12-65	18:10	20'30"	109	1/128	1837
G-33	9-10-65	22:00	20'50"	125	1/128	1641

TABLE 1-6
 SAMPLING DATA AT STATION W15

Cruise No.	Date	Net In (Local Time)	Tow Duration (Min. & Sec.)	Vol. of Water Filtered (m)	Subsample Size	Number of Zooplankton in Subsample
G-2	3-8-63	08:00	20'00"	63	1/16	3399
G-3	4-3-63	23:00	21'10"	42	1/64	2287
G-5	5-20-63	23:15	20'18"	69	1/64	2273
G-6	6-26-63	21:15	20'48"	36	1/16	2280
G-7	7-16-63	08:00	20'45"	111	1/32	2370
G-8	8-30-63	07:00	20'20"	98	1/32	1936
G-9	10-2-63	20:50	20'55"	76	1/128	1415
G-10	10-31-63	21:15	20'05"	121	1/64	2818
G-11	11-30-63	19:30	23'00"	150	1/128	1996
G-12	12-19-63	22:30	20'22"	160	1/256	1349
G-13	1-28-64	11:15	20'24"	59	1/16	2869
G-14	2-19-64	12:10	20'00"	76	1/16	4031
G-15	3-19-64	00:05	13'00"	70	1/64	1442
G-16	4-15-64	23:20	20'38"	91	1/128	2710
G-17	5-23-64	11:55	20'48"	47	1/32	2429
G-18	6-25-64	18:50	22'22"	111	1/64	3081
G-19	7-17-64	02:20	21'30"	88	1/128	1566
G-20	8-30-64	10:30	15'43"	117	1/32	4409
G-21	9-27-64	23:50	20'15"	150	1/64	3466
G-22	10-29-64	04:10	24'12"	146	1/256	1676

TABLE 1-6 CONT.'D

G-23	11-26-64	04:50	20'40"	111	1/128	2467
G-24	12-16-64	21:00	20'15"	95	1/128	1860
G-25	1-7-65	19:30	23'45"	150	1/32	1843
G-26	2-27-65	06:30	19'42"	144	1/64	3164
G-27	3-21-65	22:00	20'00"	107	1/64	1989
G-28	4-23-65	21:30	21'03"	112	1/128	3354
G-29	5-31-65	21:10	22'15"	101	1/128	1991
G-30	6-12-65	14:00	21'20"	92	1/32	1823
G-32	8-12-65	15:25	22'05"	168	1/32	3271
G-33	9-11-65	01:20	20'00"	115	1/64	1812
G-35	12-10-65	03:10	19'55"	148	1/128	1188

TABLE 1-7
 SAMPLING DATA AT STATION W57

Cruise No.	Date	Net In (Local Time)	Tow Duration (Min. & Sec.)	Volume of Water Filtered (m ³)	Subsample Size	Number of Zooplankton in Subsample
G-2	3-8-63	12:25	19'45"	56	1/16	3496
G-3	4-3-63	20:00	21'10"	56	1/64	1856
G-4	5-2-63	08:20	19'31"	157	1/64	2670
G-5	5-20-63	19:50	20'41"	75	1/64	2758
G-6	6-26-63	17:30	21'10"	52	1/16	1736
G-7	7-16-63	12:30	21'41"	126	1/64	1333
G-8	8-30-63	10:50	23'21"	97	1/4	2709
G-9	10-2-63	17:00	22'38"	126	1/32	3076
G-10	10-31-63	17:45	20'32"	120	1/32	2805
G-11	11-30-63	15:30	21'04"	150	1/64	1479
G-12	12-18-63	19:25	21'29"	156	1/4	2232
G-13	1-28-64	07:50	24'43"	116	1/8	4090
G-14	2-19-64	17:25	24'41"	44	1/4	2769
G-15	3-18-64	22:05	21'43"	127	1/64	2913
G-16	4-15-64	20:35	24'30"	168	1/512	1469
G-17	5-23-64	09:45	20'27"	56	1/16	4087
G-18	6-25-64	16:25	22'34"	158	1/32	3723
G-19	7-16-64	22:30	26'26"	134	1/64	3503
G-20	8-30-64	08:15	20'30"	137	1/64	4482

TABLE 1-7 CONT. 'D

G-21	9-28-64	03:35	23'00"	174	1/128	3154
G-22	10-29-64	01:05	22'17"	175	1/128	1985
G-23	11-26-64	08:40	23'19"	118	1/32	3276
G-24	12-16-64	18:50	23'07"	148	1/64	1688
G-25	1-7-65	16:35	20'45"	150	1/32	3224
G-26	2-27-65	03:40	20'23"	174	1/32	3721
G-27	3-21-65	20:00	21'37"	227	1/128	2314
G-28	4-23-65	19:45	21'35"	101	1/128	1602
G-29	5-31-65	17:30	21'57"	160	1/32	3401
G-30	6-12-65	10:10	20'45"	120	1/64	3102
G-32	8-12-65	02:55	23'40"	168	1/64	2005
G-33	9-11-65	05:30	22'45"	109	1/32	1998
G-35	12-10-65	00:50	22'09"	210	1/64	3456

TABLE 2-1

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W60

	3-9-63	4-5-63	6-28-63	7-15-63	8-29-63	10-4-63
No. of Zoopl./m ³	476.5	1928.3	2451.2	3249.9	8226.6	10489.8
Copepoda	172.3	1473.8	842.7	1065.0	1648.6	8082.7
Others:	304.2	454.5	1608.5	2185.0	6577.9	2407.0
Cladocera						
<u>Evadne</u>	0	0	8.5	0	277.8	0
<u>Penilia</u>	0	2.4	876.8	2.6	591.4	0
<u>Podon</u>	0	0	14.9	3.8	7.7	0
Ostracoda						
<u>Euconchoecia</u>	53.4	10.7	5.3	1.3	0	0
<u>Conchoecia</u>	0	0	0	1.3	0	0
Mysidacea	0	0	0	0	1.3	0
Amphipoda	3.0	0.6	0	0	3.8	3.1
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	1.8	3.2	52.5	41.0	137.4
Other crustaceans	0	0	0	0	2.6	0
Barnacle nauplii	1.0	0.6	2.1	0	1.3	0
Barnacle cypris	217.3	155.3	2.1	0	2.6	0
Other nauplii	3.5	4.1	19.2	17.9	37.1	21.9
Decapod zoea	0.3	8.9	4.3	29.4	49.9	6.2
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.5	3.6	2.1	19.2	41.0	21.9
Stomatopod larvae	0	0.6	0	0	0	0
Other crustacean larvae	0.3	1.2	35.2	148.5	125.4	465.2
Medusae	16.3	26.1	54.4	126.7	53.8	25.0

TABLE 2-1 CONT.'D

Polychaeta	0.2	12.4	14.9	14.1	135.7	6.2
Gastropod larvae	1.4	4.7	96.0	794.9	1948.2	12.5
Heteropoda	0	0	0	0	0	146.7
Pteropoda	0	1.2	2.1	0	20.5	0
Bivalve larvae	3.7	5.9	11.7	871.7	2209.3	168.6
Chaetognatha	1.4	13.0	5.3	64.0	265.0	140.5
Larvacea	1.3	165.3	107.7	37.1	378.9	1226.9
<u>Doliolum</u>	0.2	34.4	1.1	0	198.4	0
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0.2	0	0	0	0	0
Echinoderm larvae	0.2	0	341.3	0	180.5	21.9
Others	0	1.8	0	0	3.8	0

TABLE 2-1 CONT.'D

	11-3-63	12-2-63	12-22-63	1-29-64	2-20-64	3-20-64
No. of Zoopl./m ³	1289.1	450.6	957.6	1716.3	412.1	2324.6
Copepoda	380.6	304.9	637.6	1608.1	328.9	1638.9
Others:	908.6	145.7	320.0	108.2	83.3	685.7
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	17.1	3.0	0	0	0	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0	2.1	10.5	1.8	0.3	0
<u>Conchoecia</u>	0	0	0	0	0.9	0
Mysidacea	0	10.2	0	0	0	10.3
Amphipoda	0	0.4	1.0	0	0.6	2.3
Euphausiacea	0	0	0	0	0.3	0
<u>Lucifer</u>	5.1	0.2	0	0	0.3	0
Other crustaceans	0	0	0	0	1.2	2.3
Barnacle nauplii	0.6	0.2	2.4	0	5.9	2.3
Barnacle cypris	0	0	0.5	7.2	12.7	36.6
Other nauplii	35.4	2.8	15.3	2.7	0	2.3
Decapod zoea	3.4	2.6	0	0	0	0
Decapod megalopa	0	0	0	0	1.2	0
Decapod larvae	0	0	0	0	0.3	0
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	10.3	1.3	0	0	0.3	9.1
Medusae	1.7	11.3	204.4	66.7	43.3	274.3

TABLE 2-1 CONT.'D

Polychaeta	14.3	0.4	16.2	0	0.6	187.4
Gastropod larvae	100.0	1.3	4.8	0.9	2.1	1.1
Heteropoda	0	0	0	0	0	0
Pteropoda	7.4	0.2	1.0	0	0	0
Bivalve larvae	503.4	15.4	26.3	17.1	2.1	2.3
Chaetognatha	17.1	85.8	35.3	1.8	5.6	51.4
Larvacea	189.7	5.8	1.4	9.9	5.3	98.3
<u>Doliolum</u>	0.6	0	0.5	0	0	0
<u>Salpa</u>	0	0	0	0	0.3	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	2.3	2.6	0.5	0	0	0
Others	0	0	0	0	0	5.7

TABLE 2-1 CONT.'D

	4-17-64	5-24-64	6-26-64	7-18-64	8-31-64	9-25-64
No. of Zoopl./m ³	7132.3	7805.1	3422.3	3826.1	1658.4	4800.0
Copepoda	4509.8	2760.7	2688.0	2089.7	713.4	4040.7
Others:	2622.5	5044.4	734.3	1736.3	944.9	759.3
Cladocera						
<u>Evadne</u>	0	0	22.5	0	32.0	0
<u>Penilia</u>	23.8	2.9	13.5	16.7	97.9	0
<u>Podon</u>	41.7	20.4	141.5	2.8	9.4	0
Ostracoda						
<u>Euconchoecia</u>	0	0	0	2.8	0	2.9
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	4.5	72.3	0	17.5
Amphipoda	3.0	11.6	4.5	16.7	0.6	2.9
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	3.0	23.3	24.7	247.7	1.9	142.5
Other crustaceans	3.0	0	0	13.9	0	0
Barnacle nauplii	0	2.9	0	0	0	2.9
Barnacle cypris	14.9	17.5	2.2	25.0	0	0
Other nauplii	14.9	87.3	0	13.9	6.9	0
Decapod zoea	0	23.3	6.7	30.6	2.5	17.5
Decapod megalopa	0	5.8	2.2	0	0	8.7
Decapod larvae	6.0	8.7	6.7	25.0	3.8	20.4
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	3.0	488.7	9.0	27.8	6.9	52.4
Medusae	71.4	125.1	6.7	36.2	46.4	0

TABLE 2-1 CONT.'D

Polychaeta	136.9	0	0	11.1	5.6	2.9
Gastropod larvae	104.2	1355.6	74.1	289.4	33.9	133.8
Heteropoda	0	5.8	0	0	0	0
Pteropoda	0	5.8	13.5	11.1	11.3	0
Bivalve larvae	529.9	1245.1	132.5	261.6	98.5	322.9
Chaetognatha	422.7	1189.8	110.0	180.9	42.0	5.8
Larvacea	1217.5	276.4	157.2	431.3	543.4	26.2
<u>Doliolum</u>	23.8	0	0	0	0	0
<u>Salpa</u>	3.0	0	0	0	1.9	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	148.4	2.2	16.7	0	0
Others	0	0	0	2.8	0	0

TABLE 2-1 CONT. 'D

	10-30-64	11-24-64	12-17-64	1-9-65	2-28-65	3-23-65
No. of Zoopl./m ³	5635.3	2520.1	1751.1	3155.4	379.3	1204.7
Copepoda	4352.0	1850.8	903.3	2280.7	344.9	313.1
Others:	1283.3	669.4	847.7	874.7	34.4	891.6
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	3.3	0	0	0	0	3.0
<u>Podon</u>	3.3	0	0	1.9	0	0
Ostracoda						
<u>Euconchoecia</u>	0	0	0	1.9	0.6	1.5
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	2.1	0	0	1.5
Amphipoda	0	4.2	3.1	7.8	0	5.4
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	9.8	23.1	0	0	0	1.0
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	3.3	0	0	0	0.3	3.9
Barnacle cypris	0	0	1.0	1.9	0	22.6
Other nauplii	239.6	46.2	8.4	0	0	2.5
Decapod zoea	6.6	0	0	0	0.1	3.9
Decapod megalopa	0	0	0	1.9	0.6	0
Decapod larvae	0	8.4	0	0	8.6	0
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	190.4	54.6	1.0	1.9	0	1.5
Medusae	9.8	2.1	36.7	192.0	10.8	16.7

TABLE 2-1 CONT.'D

Polychaeta	0	39.9	34.6	15.5	1.0	5.9
Gastropod larvae	6.6	18.9	76.6	9.7	2.5	109.3
Heteropoda	0	0	0	0	0	0
Pteropoda	0	0	0	0	0	0
Bivalve larvae	190.4	163.7	410.2	438.3	1.3	596.2
Chaetognatha	141.1	274.9	260.2	56.2	2.5	94.5
Larvacea	479.2	33.6	7.3	145.5	5.8	21.2
<u>Doliolum</u>	0	0	1.0	0	0	1.0
<u>Salpa</u>	0	0	0	0	0.1	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	4.2	0	0	0

TABLE 2-1 CONT.'D

	4-25-65	5-31-65	6-13-65	8-13-65	12-11-65
No. of Zoopl./m ³	5976.8	678.9	1878.4	329.6	1211.0
Copepoda	2228.2	269.2	910.4	130.4	865.4
Others:	3748.6	409.7	968.0	199.2	345.7
Cladocera					
<u>Evadne</u>	0	0	0.8	0	0
<u>Penilia</u>	0	0	0	0.4	0.5
<u>Podon</u>	0	0	1.6	1.8	0
Ostracoda					
<u>Euconchoecia</u>	0	0	0	0	0
<u>Conchoecia</u>	0	0	0	0.2	0
Mysidacea	23.5	6.1	0	1.2	0
Amphipoda	7.8	2.2	0.8	3.0	0
Euphausiacea	0	0	0	0	0
<u>Lucifer</u>	10.4	5.2	1.6	42.0	0
Other crustaceans	5.2	0.7	1.6	3.8	0
Barnacle nauplii	5.2	0.2	0	0	1.4
Barnacle cypris	128.0	7.3	3.2	0	2.3
Other nauplii	0	15.4	16.0	0.6	142.9
Decapod zoea	34.0	1.5	6.4	6.6	0.9
Decapod megalopa	2.6	0.2	1.6	8.2	0
Decapod larvae	20.9	65.9	47.2	10.2	1.8
Stomatopod larvae	2.6	0.4	0	0	0
Other crustacean larvae	2189.1	3.7	96.0	16.1	0
Medusae	0	7.4	2.4	1.4	0

TABLE 2-1 CONT.'D

Polychaeta	0	0.2	2.4	1.1	12.2
Gastropod larvae	449.3	109.6	23.2	15.1	17.1
Heteropoda	0	0	0	0	0
Pteropoda	0	0.2	29.6	16.1	0.5
Bivalve larvae	404.9	15.4	6.4	56.3	0
Chaetognatha	363.1	154.2	23.2	6.1	123.9
Larvacea	91.4	12.8	701.6	4.4	41.5
<u>Doliolum</u>	5.2	0.2	0	0	0
<u>Salpa</u>	0	0	2.4	0	0
Other urochordates	0	0	0	0	0
Echinoderm larvae	0	0	0	2.1	0
Others	5.2	0.7	0	2.3	0.9

TABLE 2-2

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W61

	3-9-63	4-5-63	6-28-63	8-29-63	10-4-63	11-3-63
No. of Zoopl./m ³	264.3	5650.7	1808.6	1965.1	3575.0	1077.0
Copepoda	123.3	3527.8	1326.1	812.4	2755.4	523.0
Others:	141.0	2122.9	482.6	1152.7	819.6	553.9
Cladocera						
<u>Evadne</u>	0	0	9.0	0.7	0	0
<u>Penilia</u>	0	3.1	113.9	306.9	0	3.7
<u>Podon</u>	0	0	67.8	106.4	0	0
Ostracoda						
<u>Euconchoecia</u>	1.9	1142.6	32.0	3.3	0	2.2
<u>Conchoecia</u>	1.7	0	0	0.7	0	0
Mysidacea	0	0	0	0	0	0.7
Amphipoda	0.7	53.1	15.4	0	0	7.4
<u>Lucifer</u>	0	0	1.3	5.9	20.2	5.9
Other crustaceans	0	0	0	0	0	0.7
Barnacle nauplii	5.4	0	0	0	2.2	0
Barnacle cypris	76.9	31.2	1.3	0	0	0.7
Other nauplii	0	37.5	1.3	3.9	40.4	12.5
Decapod zoea	0	15.6	6.4	9.1	2.2	0.7
Decapod megalopa	0.1	0	0	0	0	0
Decapod larvae	0	0	3.8	0.7	13.5	1.5
Stomatopod larvae	0	3.1	1.3	0	0	0
Other crustacean larvae	0.1	12.5	2.6	16.3	74.1	19.9
Medusae	25.0	71.8	57.6	49.6	40.4	28.7
Polychaeta	1.6	25.0	2.6	1.3	24.7	6.6

TABLE 2-2 CONT.'D

Gastropod larvae	0.6	56.2	26.9	145.6	11.2	11.0
Heteropoda	0.2	0	0	1.3	0	0
Pteropoda	0	18.7	1.3	101.2	0	93.4
Cephalopoda	0	0	0	0.7	0	0
Bivalve larvae	1.9	327.8	7.7	145.0	87.6	300.1
Chaetognatha	4.8	71.8	14.1	39.8	60.6	17.7
Larvacea	9.7	184.2	116.5	97.3	440.1	33.8
<u>Doliolum</u>	10.3	68.7	0	97.3	0	6.6
<u>Salpa</u>	0	0	0	18.3	0	0
Echinoderm larvae	0	0	0	1.3	2.2	0
Others	0	0	0	0	0	0

TABLE 2-2 CONT.'D

	12-2-63	12-22-63	1-29-64	3-19-64	4-17-64	5-24-64
No. of Zoopl. /m ³	1357.9	1273.6	902.6	2022.2	12616.3	1257.6
Copepoda	622.8	307.8	612.7	1352.3	6628.2	480.0
Others:	735.0	965.7	289.9	669.9	5988.2	777.6
Cladocera						
<u>Evadne</u>	0	0	0	0	11.1	0
<u>Penilia</u>	0	0	0	1.0	39.0	6.9
<u>Podon</u>	0	0	0	0	22.3	3.7
Ostracoda						
<u>Euconchoecia</u>	11.2	445.6	8.9	9.3	0	119.8
<u>Conchoecia</u>	22.4	0	4.2	0	0	0
Mysidacea	0	0.2	0	1.0	0	0
Amphipoda	2.6	1.2	0.5	4.1	5.6	26.1
<u>Lucifer</u>	5.3	0	0	0	0	6.4
Other crustaceans	0	0	0.5	0	0	1.4
Barnacle nauplii	0	0	0	0	11.1	0
Barnacle cypris	0	0	0	11.4	5.6	0.9
Other nauplii	102.3	5.3	0.5	5.2	5.6	59.9
Decapod zoea	5.9	0.5	0	1.0	11.1	7.3
Decapod megalopa	0	0	0	0	0	0.5
Decapod larvae	1.3	1.7	16.5	1.0	0	2.3
Stomatopod larvae	0	0	0	0	0	2.3
Other crustacean larvae	15.8	0	0.5	1.0	0	18.7
Medusae	73.2	174.8	168.9	92.9	250.4	19.7
Polychaeta	1.3	12.7	45.6	218.8	322.8	5.5

TABLE 2-2 CONT.'D

Gastropod larvae	10.6	13.1	12.7	18.6	1029.6	73.1
Heteropoda	0	0	0	0	0	0
Pteropoda	0	0	0	0	0	2.3
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	97.0	241.4	0	31.0	1319.0	161.4
Chaetognatha	185.4	67.3	0	16.5	528.7	126.6
Larvacea	9.2	0.5	26.4	241.5	2242.8	123.0
<u>Doliolum</u>	0	0	0	5.2	128.0	7.3
<u>Salpa</u>	0	0	1.9	8.3	0	0
Echinoderm larvae	0	0.5	0	2.1	0	2.3
Others	0	1.0	2.8	0	55.7	0.5

TABLE 2-2 CONT.'D

	6-26-64	7-17-64	8-31-64	9-25-64	10-30-64	11-24-64
No. of Zoopl. /m ³	7790.8	5178.5	2099.8	6900.4	2602.2	2317.2
Copepoda	4470.8	4007.5	951.4	5594.2	1624.7	1617.7
Others:	3320.1	1171.0	1148.4	1306.2	977.5	699.6
Cladocera						
<u>Evadne</u>	5.3	0	48.9	0	0	0
<u>Penilia</u>	1367.1	292.3	138.1	2.9	1.5	0
<u>Podon</u>	18.5	0	295.6	8.7	0	0
Ostracoda						
<u>Euconchoecia</u>	836.6	22.1	7.2	0	17.5	4.4
<u>Conchoecia</u>	36.9	0	0	0	0	0
Mysidacea	0	3.2	0	11.6	2.9	4.4
Amphipoda	52.8	23.7	0	0	0	24.3
<u>Lucifer</u>	18.5	22.1	0	162.9	7.3	4.4
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	5.3	0	0	0	0	0
Barnacle cypris	0	12.6	0	2.9	0	0
Other nauplii	10.6	3.2	2.2	32.0	53.8	19.9
Decapod zoea	15.8	22.1	12.9	0	0	4.4
Decapod megalopa	0	1.6	0	2.9	0	2.2
Decapod larvae	0	7.9	2.2	11.6	0	0
Stomatopod larvae	5.3	6.3	0.7	0	0	0
Other crustacean larvae	47.5	9.5	1.4	317.1	29.1	8.8
Medusae	39.6	96.4	67.6	11.6	80.0	55.2
Polychaeta	7.9	25.3	2.9	5.8	2.9	11.0

TABLE 2-2 CONT.'D

Gastropod larvae	184.7	11.1	63.3	23.3	13.1	11.0
Heteropoda	2.6	0	0.7	0	0	0
Pteropoda	31.7	6.3	0	0	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	192.7	41.1	153.2	154.2	2.9	11.0
Chaetognatha	195.3	164.3	76.2	160.0	90.2	518.6
Larvacea	240.2	372.9	267.5	398.5	676.4	19.9
<u>Doliolum</u>	2.6	15.8	0	0	0	0
<u>Salpa</u>	0	11.1	6.5	0	0	0
Echinoderm larvae	2.6	0	0.7	0	0	0
Others	0	0	0.7	0	0	0

TABLE 2-2 CONT. 'D

	12-17-64	1-9-65	2-28-65	3-22-65	4-25-65	5-30-65
No. of Zoopl. /m ³	3016.1	3579.8	2027.1	680.2	2660.9	4684.1
Copepoda	1544.9	2299.8	1392.3	279.4	1498.3	3276.1
Others:	1471.2	1280.0	634.8	400.8	1162.7	1408.0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	4.2	1.3	0.4	0	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.8	23.1	40.5	53.4	2.5	13.8
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0.8	0	1.3	0.9	0	3.5
Amphipoda	2.4	0	3.9	5.3	9.8	10.4
<u>Lucifer</u>	0	0	0	0.4	0	3.5
Other crustaceans	0	0	0	0	0	3.5
Barnacle nauplii	0	0	9.1	0	0	0
Barnacle cypris	0	0	1.3	0	31.2	0
Other nauplii	11.3	2.1	6.5	0.9	0	3.5
Decapod zoea	0.8	0	0	3.1	0	0
Decapod megalopa	0	0	0	0	0	3.5
Decapod larvae	0.8	4.2	0	2.2	0	0
Stomatopod larvae	0	0	0	0.4	0	3.5
Other crustacean larvae	0	0	0	0	46.8	0
Medusae	105.3	27.3	78.4	36.6	5.7	24.2
Polychaeta	8.1	16.8	23.5	2.2	12.3	0

TABLE 2-2 CONT.'D

Gastropod larvae	30.8	39.9	36.6	59.1	113.2	1051.7
Heteropoda	0	0	0	0	0	0
Pteropoda	1.6	0	0	0.4	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	1220.0	1053.4	232.5	163.3	297.8	79.6
Chaetognatha	74.5	21.0	34.0	35.3	359.4	169.5
Larvacea	13.8	88.1	163.3	29.1	282.3	38.1
<u>Doliolum</u>	0	0	2.6	0	0	0
<u>Salpa</u>	0	0	0	7.5	0	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0	0	0	0

TABLE 2-2 CONT.'D

	6-13-65	8-13-65	12-11-65
No. of Zoopl. /m ³	765.5	3773.5	1442.4
Copepoda	427.1	2407.1	1063.7
Others:	338.5	1366.4	378.7
Cladocera			
<u>Evadne</u>	0	1.7	0
<u>Penilia</u>	0	109.7	1.8
<u>Podon</u>	3.7	6.6	0
Ostracoda			
<u>Euconchoecia</u>	0	19.9	0
<u>Conchoecia</u>	0	0	0
Mysidacea	0	0	0
Amphipoda	4.9	46.5	3.5
<u>Lucifer</u>	1.8	3.3	0
Other crustaceans	0	1.7	0
Barnacle nauplii	0.6	3.3	0
Barnacle cypris	4.9	0	0
Other nauplii	41.8	10.0	90.9
Decapod zoea	1.2	24.9	1.8
Decapod megalopa	1.2	0	0
Decapod larvae	3.7	21.6	10.6
Stomatopod larvae	3.1	1.7	0
Other crustacean larvae	18.5	15.0	2.6
Medusae	9.2	66.5	64.4
Polychaeta	0.6	6.6	6.2

TABLE 2-2 CONT.'D

Gastropod larvae	24.0	86.4	5.3
Heteropoda	0	6.6	0
Pteropoda	13.5	24.9	0
Cephalopoda	0	0	0
Bivalve larvae	12.3	63.2	27.4
Chaetognatha	155.7	204.5	135.9
Larvacea	37.5	635.0	27.4
<u>Doliolum</u>	0	0	0.9
<u>Salpa</u>	0	1.7	0
Echinoderm larvae	0	3.3	0
Others	0	1.7	0

TABLE 2-3

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W62

	3-9-63	4-4-63	6-27-63	7-15-63	8-29-63	10-4-63
No. of Zoopl./m ³	826.8	3914.0	1179.1	2575.3	582.4	1741.2
Copepoda	393.0	2403.6	854.2	1526.6	289.3	891.1
Others:	433.7	1510.4	324.9	1048.7	293.1	850.1
Cladocera						
<u>Evadne</u>	0	0	9.8	0	0.4	0
<u>Penilia</u>	0	1.4	11.9	70.5	42.7	2.1
<u>Podon</u>	0	0	18.1	8.2	42.7	0
Ostracoda						
<u>Euconchoecia</u>	174.6	765.2	92.3	1.2	0	21.6
<u>Conchoecia</u>	0.3	17.1	0.4	0	0	0.7
Mysidacea	0.3	4.3	1.2	2.3	0	3.5
Amphipoda	10.8	133.7	14.8	8.2	0	0.7
Euphausiacea	0	1.4	0.4	0	0	0
<u>Lucifer</u>	0	2.8	0.8	64.6	1.3	9.7
Other crustaceans	0	0	0	1.2	0	0
Barnacle nauplii	0	0	0	1.2	0	0
Barnacle cypris	8.7	61.2	6.6	0	0	0.7
Other nauplii	2.1	12.8	4.1	11.7	3.0	11.8
Decapod zoea	1.4	12.8	4.1	8.2	1.1	13.9
Decapod megalopa	0	0	0	1.2	0	0
Decapod larvae	0.3	2.8	1.2	4.7	0	16.7
Stomatopod larvae	0.3	2.8	0.8	0	0.4	0.7
Other crustacean larvae	0	39.8	4.1	57.5	1.1	22.3
Medusae	18.4	96.7	18.9	14.1	4.9	27.8

TABLE 2-3 CONT.'D

Polychaeta	2.8	2.8	16.4	2.3	1.5	11.8
Gastropod larvae	0.7	24.2	12.3	58.7	1.7	363.8
Heteropoda	0	1.4	1.2	0	0	0
Pteropoda	0	0	9.0	404.0	3.4	5.6
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	1.7	59.7	4.1	229.0	14.3	52.2
Chaetognatha	20.5	160.7	24.2	58.7	8.3	58.4
Larvacea	178.8	95.3	64.0	39.9	91.7	225.4
<u>Doliolum</u>	9.7	10.0	1.6	0	74.0	0.7
<u>Salpa</u>	0	1.4	2.1	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	2.1	0	0.4	0	0.6	0
Others	0	0	0	0	0	0

TABLE 2-3 CONT. 'D

	11-3-63	12-2-63	12-21-63	1-29-64	3-19-64	4-16-64
No. of Zoopl./m ³	841.3	708.9	2286.1	1022.4	3074.6	1732.5
Copepoda	551.6	385.1	849.9	614.3	1925.3	1084.6
Others:	289.7	323.8	1436.2	408.2	1149.4	647.9
Cladocera						
<u>Evadne</u>	0	0	0	0	1.3	0
<u>Penilia</u>	2.7	0.2	0.9	0.3	1.3	3.9
<u>Podon</u>	0	0	0	0.3	1.3	0.6
Ostracoda						
<u>Euconchoecia</u>	8.2	129.8	908.2	52.4	263.9	114.0
<u>Conchoecia</u>	27.5	0	0	7.8	5.3	0
Mysidacea	1.4	0.9	0.5	0	5.3	1.1
Amphipoda	1.8	2.9	24.0	1.3	100.3	29.8
Euphausiacea	0	0	0	0.3	0	0
<u>Lucifer</u>	2.1	1.1	2.4	0.3	0	1.7
Other crustaceans	0	0	0.5	0.3	0	0
Barnacle nauplii	0	0.2	0	0	0	0
Barnacle cypris	0	0	0	0.6	10.6	1.7
Other nauplii	1.8	6.0	44.7	11.0	27.7	1.7
Decapod zoea	4.8	9.2	8.0	0.3	4.0	3.4
Decapod megalopa	0.1	0	0.5	0	0	0
Decapod larvae	1.8	2.0	1.4	0	0	1.1
Stomatopod larvae	0.3	0.2	0	0	0	1.1
Other crustacean larvae	9.9	9.6	12.2	9.4	0	5.1
Medusae	28.5	23.3	62.1	79.4	22.4	15.7

TABLE 2-3 CONT. 'D

Polychaeta	3.7	14.8	4.7	12.9	29.0	0.6
Gastropod larvae	51.3	13.9	29.6	9.4	17.2	6.2
Heteropoda	0.4	0.7	0.5	0	0	1.1
Pteropoda	21.4	5.6	4.7	0	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	33.1	21.9	144.0	122.7	234.9	221.8
Chaetognatha	54.8	62.2	120.0	11.3	83.1	89.8
Larvacea	28.9	18.8	20.7	80.6	216.4	134.2
<u>Doliolum</u>	5.1	0.4	0.5	5.6	120.1	13.5
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0	46.1	1.9	5.3	0
Others	0	0	0	0	0	0

TABLE 2-3 CONT. 'D

	5-24-64	6-26-64	7-17-64	8-31-64	9-26-64	10-29-64
No. of Zoopl./m ³	5585.9	1434.7	1469.6	1831.2	1613.4	3165.8
Copepoda	3466.2	547.6	794.1	1035.9	1166.9	1472.0
Others:	2119.7	887.1	675.6	795.4	446.5	1693.8
Cladocera						
<u>Evadne</u>	10.2	0	11.3	16.0	0	0
<u>Penilia</u>	22.2	0	60.4	144.5	8.2	3.3
<u>Podon</u>	194.6	1.3	10.7	74.3	0	0
Ostracoda						
<u>Euconchoecia</u>	827.7	0	79.4	7.7	0	153.4
<u>Conchoecia</u>	0	0	3.6	0	0	0
Mysidacea	0	0	0.6	0.5	0.7	0
Amphipoda	37.5	1.3	4.1	9.8	1.5	3.3
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	1.7	2.7	0	0	6.0	2.2
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	1.8	0	2.1	0	0
Barnacle cypris	5.1	0.4	2.4	0	0	0
Other nauplii	0	18.2	1.2	15.0	12.7	82.8
Decapod zoea	11.9	3.1	3.6	1.5	0.7	55.2
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0	4.0	1.2	1.0	7.4	6.6
Stomatopod larvae	1.7	0	0	0	1.5	1.1
Other crustacean larvae	0	20.9	4.1	3.1	26.0	397.2
Medusae	51.2	2.2	8.9	49.5	11.9	96.0

TABLE 2-3 CONT. 'D

Polychaeta	3.4	12.9	16.0	1.5	18.6	28.7
Gastropod larvae	151.9	8.4	61.6	56.8	28.3	45.2
Heteropoda	17.1	0.4	0	0	0	0
Pteropoda	15.4	0	16.0	20.1	34.2	8.8
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	192.9	52.9	2.4	9.8	29.8	37.5
Chaetognatha	227.0	20.9	19.6	39.2	104.9	93.8
Larvacea	337.9	735.6	362.7	324.6	148.1	655.4
<u>Doliolum</u>	0	0	1.2	16.5	0	0
<u>Salpa</u>	0	0	1.2	0	0	23.2
Other urochordates	0	0	1.8	0	0	0
Echinoderm larvae	10.2	0	1.2	1.5	6.0	0
Others	0	0	0.6	0	0	0

TABLE 2-3 CONT. 'D

	11-24-64	12-17-64	1-8-65	2-28-65	3-22-65	4-24-65
No. of Zoopl./m ³	3517.6	1163.8	2541.4	437.0	798.8	1047.0
Copepoda	1706.3	669.8	1277.0	233.1	333.0	550.6
Others:	1811.3	494.0	1264.4	204.0	465.8	496.3
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	6.0	9.3	0	0	2.1	0
<u>Podon</u>	1.2	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	909.3	172.9	1056.7	36.5	148.2	28.5
<u>Conchoecia</u>	0	0.8	0	17.5	0	0
Mysidacea	0	1.4	1.5	0	0	0
Amphipoda	82.1	10.1	13.4	2.9	7.5	2.8
Euphausiacea	0	0	0	0	1.2	0
<u>Lucifer</u>	9.7	0.8	2.2	0	1.2	0.3
Other crustaceans	0	0	2.2	0.3	0	0
Barnacle nauplii	0	0	0	0.3	0.3	0
Barnacle cypris	0	0	0	0	0	20.5
Other nauplii	9.7	18.0	9.7	4.5	4.2	8.3
Decapod zoea	170.3	25.0	9.7	0.3	1.8	0.3
Decapod megalopa	1.2	0	0	0	0	0
Decapod larvae	22.9	1.7	2.2	0.3	1.2	2.1
Stomatopod larvae	2.4	0	0	0	0.6	0.3
Other crustacean larvae	14.5	3.9	3.7	0.6	10.6	51.1
Medusae	41.1	37.6	19.3	10.7	15.7	10.8

TABLE 2-3 CONT.'D

Polychaeta	19.3	10.9	9.7	1.9	3.6	0.7
Gastropod larvae	58.0	19.1	11.2	6.1	10.3	44.9
Heteropoda	1.2	0.3	0	0	0.9	0
Pteropoda	68.8	7.6	0.7	0.6	0.9	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	54.3	15.7	14.1	10.7	46.8	71.3
Chaetognatha	277.7	68.5	87.1	9.4	30.5	144.7
Larvacea	54.3	78.6	9.7	97.9	113.2	99.5
<u>Doliolum</u>	7.2	10.9	8.2	3.2	64.9	8.3
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0.8	3.0	0	0	1.7
Others	0	0	0	0	0	0

TABLE 2-3 CONT. 'D

	5-30-65	6-13-65	8-13-65
No. of Zoopl./m ³	1291.2	1938.3	336.7
Copepoda	424.0	1174.9	227.2
Others:	867.2	763.4	109.5
Cladocera			
<u>Evadne</u>	0	0	0
<u>Penilia</u>	0	0	0.1
<u>Podon</u>	0	25.1	3.9
Ostracoda			
<u>Euconchoecia</u>	205.9	24.0	0
<u>Conchoecia</u>	0.5	0	0
Mysidacea	0	0	0.1
Amphipoda	38.4	22.9	2.2
Euphausiacea	0	0	0
<u>Lucifer</u>	1.6	4.6	0.1
Other crustaceans	0.5	0	0
Barnacle nauplii	0	0	0
Barnacle cypris	9.1	8.0	0
Other nauplii	8.5	29.7	0.6
Decapod zoea	1.6	4.6	1.8
Decapod megalopa	2.1	0	0.2
Decapod larvae	3.2	4.6	1.0
Stomatopod larvae	1.1	2.3	0.6
Other crustacean larvae	56.0	49.1	0.1
Medusae	1.1	14.9	12.2

TABLE 2-3 CONT.'D

Polychaeta	1.1	8.0	0.8
Gastropod larvae	31.5	83.4	15.4
Heteropoda	0	1.1	0.5
Pteropoda	0.5	66.3	9.6
Cephalopoda	0.5	0	0
Bivalve larvae	52.8	29.7	3.2
Chaetognatha	78.4	137.1	22.2
Larvacea	372.3	209.1	33.3
<u>Doliolum</u>	0	29.7	1.4
<u>Salpa</u>	0	9.1	0.3
Other urochordates	0	0	0
Echinoderm larvae	0.5	0	0
Others	0	0	0.1

TABLE 2-4

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W13

	4-6-63	5-2-63	5-22-63	6-27-63	7-16-63	8-28-63
No. of Zoopl./m ³	1668.7	5643.8	482.6	710.1	3641.7	1262.8
Copepoda	1219.5	2046.3	403.4	418.6	2414.0	398.8
Others:	449.2	3597.5	79.2	291.5	1227.7	864.0
Foraminifera	4.7	0	0.8	3.8	3.6	3.9
Radiolaria	0	0	0	0	0	0
Cladocera						
<u>Evadne</u>	0	0	0	0.2	0	0
<u>Penilia</u>	34.9	362.1	1.0	1.3	115.4	25.0
<u>Podon</u>	0	0	0	1.4	0	0
Ostracoda						
<u>Euconchoecia</u>	1.2	0	0.8	0.6	32.5	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0	0	1.6	9.0	0
Amphipoda	2.3	3.4	0.5	1.3	34.3	0.8
Euphausiacea	0	0	0	0.2	0	0
<u>Lucifer</u>	0	0	0.8	5.9	81.1	7.8
Other crustaceans	0	0	0	0	9.0	0
Barnacle nauplii	25.6	0	0.3	0	1.8	0
Barnacle cypris	11.6	6.7	0.8	0	1.8	0
Other nauplii	51.2	1626.9	1.3	38.1	28.8	22.6
Decapod zoea	0	0	5.9	4.3	9.0	3.1
Decapod megalopa	0	0	0	0.6	0	0
Decapod larvae	2.3	3.4	5.4	25.6	182.1	24.2
Stomatopod larvae	0	0	0	1.0	3.6	0

TABLE 2-4 CONT.'D

Other crustacean larvae	3.5	0	0	0.2	7.2	0
Medusae	51.2	375.6	8.3	14.6	93.7	9.4
Polychaeta	17.5	69.1	1.3	0.6	37.9	0
Gastropod larvae	2.3	60.6	12.9	9.4	41.5	60.1
Heteropoda	0	0	0	0.2	9.0	0
Pteropoda	0	3.4	0.8	0.6	5.4	7.0
Bivalve larvae	150.1	606.3	3.9	155.0	126.2	620.5
Chaetognatha	15.1	25.3	5.7	7.2	329.9	4.7
Larvacea	41.9	436.2	9.8	17.0	61.3	67.9
<u>Doliolum</u>	31.4	0	0	0.2	3.6	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	15.2	18.8	0	0	7.0
Others	2.3	3.4	0	0.5	0	0

TABLE 2-4 CONT. 'D

	10-5-63	11-4-63	12-1-63	1-30-64	2-19-64	3-21-64
No. of Zoopl./m ³	4441.8	1384.5	638.7	847.7	202.0	1063.2
Copepoda	2575.0	483.5	438.1	712.9	65.0	491.8
Others:	1866.8	900.9	200.6	134.8	137.0	571.4
Foraminifera	15.0	0	0	0.7	0.3	0
Radiolaria	8.3	0	0	0.7	0	0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	1.7	0.2	0	0	0	0.4
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	6.6	6.6	6.9	8.2	1.4	0
Other ostracods	0	0	0	0	0.5	0
Mysidacea	0	0.5	0.9	0	0	0
Amphipoda	0	2.6	0.9	0	0.2	0.4
Euphausiacea	0	0.2	0	0	0	0
<u>Lucifer</u>	8.3	12.5	0	0	0	0
Other crustaceans	0	0.5	0	0	0	0
Barnacle nauplii	0	0.2	0	33.4	0.7	24.8
Barnacle cypris	0	0	0	5.4	10.2	33.7
Other nauplii	310.9	19.8	3.5	15.7	0	0
Decapod zoea	0	11.1	0.4	0	0	0
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	23.3	87.1	1.7	0	0	0
Stomatopod larvae	0	0	0	0	0	0

TABLE 2-4 CONT.'D

Other crustacean larvae	603.4	0	0	0	0	0.8
Medusae	26.6	12.0	40.6	12.9	47.8	448.4
Polychaeta	78.1	1.2	0.9	7.5	6.6	29.1
Gastropod larvae	8.3	24.5	3.9	2.0	2.0	0.8
Heteropoda	0	0	0	0	0	0
Pteropoda	3.3	1.6	0	0	0	0
Bivalve larvae	123.0	518.4	36.3	24.5	5.1	18.9
Chaetognatha	54.9	191.5	99.5	23.1	3.9	10.1
Larvacea	558.5	10.4	4.8	0	56.5	3.8
<u>Doliolum</u>	0	0	0	0	0.5	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	34.9	0	0	0	0.5	0
Others	1.7	0	0.4	0.7	0.7	0

TABLE 2-4 CONT. 'D

	4-18-64	5-25-64	6-27-64	7-18-64	9-1-64	10-31-64
No. of Zoopl./m ³	1890.2	17998.1	1642.1	1789.5	1207.0	7526.4
Copepoda	1511.7	15681.1	678.9	738.5	598.4	6843.7
Others:	378.5	2317.0	963.2	1050.9	608.6	682.7
Foraminifera	0	0	30.2	0	0.6	3.4
Radiolaria	0	0	0.5	0	0	0
Cladocera						
<u>Evadne</u>	0	0	18.7	0	0	0
<u>Penilia</u>	0	0	107.9	7.6	5.1	0
<u>Podon</u>	1.1	34.7	21.0	3.0	0.6	0
Ostracoda						
<u>Euconchoecia</u>	0	0	107.0	17.8	1.3	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0	0	0	0	0
Amphipoda	1.1	0	6.4	3.0	1.9	3.4
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	208.3	1.4	36.6	25.0	20.5
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	56.3	0	0	1.0	0	0
Barnacle cypris	19.9	182.2	0.5	0	0	0
Other nauplii	46.3	34.7	0.5	39.1	30.7	95.6
Decapod zoea	4.4	0	4.6	7.1	3.2	10.2
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	1.1	95.5	3.2	219.9	71.7	47.8
Stomatopod larvae	0	0	0	0	0	0

TABLE 2-4 CONT.'D

Other crustacean larvae	0	17.4	0.5	0	0.6	0
Medusae	13.2	26.0	10.5	59.9	115.2	34.1
Polychaeta	0	69.4	2.3	2.0	5.8	10.2
Gastropod larvae	5.5	52.1	25.1	31.0	3.8	20.5
Heteropoda	0	0	0	0	0	3.4
Pteropoda	0	0	15.1	81.3	7.7	6.8
Bivalve larvae	156.7	1110.8	15.5	282.9	147.2	204.8
Chaetognatha	44.1	433.9	45.7	203.2	46.1	105.8
Larvacea	8.8	43.4	536.7	53.3	139.5	116.1
<u>Doliolum</u>	16.6	0	9.6	0	0	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	8.7	0.5	1.5	1.9	0
Others	3.3	0	0	0	0.6	0

TABLE 2-4 CONT. 'D

	12-18-64	3-1-65	4-25-65	5-29-65	6-14-65	8-14-65
No. of Zoopl./m ³	1783.8	2363.7	1994.4	1045.7	1255.8	560.0
Copepoda	1327.2	1963.1	620.8	827.4	500.8	447.4
Others:	456.6	400.6	1373.6	218.3	755.1	112.6
Foraminifera	4.5	0	0	0	0	0
Radiolaria	0	0	0	0	0	0
Cladocera						
Evadne	0	0	0.8	0	0.3	0
Penilia	0	0	0	0	0	0
Podon	0	0	11.2	0	3.4	0.6
Ostracoda						
Euconchoecia	0	2.7	0	0	0	0.3
Other ostracods	0	0	0	0	0	0
Mysidacea	0	15.9	0	0	0	0
Amphipoda	0	0	0.8	3.4	2.7	0
Euphausiacea	0	0	0	0	0	0
Lucifer	0	0	10.4	10.3	0.3	5.7
Other crustaceans	0	2.7	0	0	0	0
Barnacle nauplii	9.0	0	45.6	5.7	6.5	0
Barnacle cypris	0.7	111.4	0	2.3	6.8	0
Other nauplii	12.0	5.3	35.2	21.7	134.8	11.7
Decapod zoea	1.5	2.7	16.0	6.9	10.2	2.9
Decapod megalopa	0	0	0	0	0	0.3
Decapod larvae	0.7	0	104.0	2.3	250.6	28.0
Stomatopod larvae	0	0	0	1.1	0.3	0

TABLE 2-4 CONT. 'D

Other crustacean larvae	0	0	0	50.3	0	0
Medusae	1.5	119.4	7.2	3.4	4.4	1.1
Polychaeta	6.7	31.8	0.8	0	3.7	0.3
Gastropod larvae	6.7	15.9	19.2	14.9	9.9	3.7
Heteropoda	0	0	3.2	0	0	0
Pteropoda	0.7	0	0	0	0	1.1
Bivalve larvae	363.0	10.6	804.0	58.3	165.8	0.9
Chaetognatha	43.4	55.7	43.2	5.7	79.0	10.6
Larvacea	6.0	26.5	228.8	32.0	72.5	45.4
<u>Doliolum</u>	0	0	32.8	0	3.1	0
<u>Salpa</u>	0	0	10.4	0	0.7	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0	0	0	0

TABLE 2-4 CONT. 'D

	9-12-65	12-12-65
No. of Zoopl./m ³	1315.7	5161.6
Copepoda	1038.8	4320.0
Others:	276.9	841.6
Foraminifera	0	3.2
Radiolaria	0	0
Cladocera		
<u>Evadne</u>	0	0
<u>Penilia</u>	0	3.2
<u>Podon</u>	1.4	0
Ostracoda		
<u>Euconchoecia</u>	0	0
Other ostracods	0	0
Mysidacea	0	0
Amphipoda	0.9	6.4
Euphausiacea	0	0
<u>Lucifer</u>	13.9	0
Other crustaceans	0	0
Barnacle nauplii	0	0
Barnacle cypris	0.9	0
Other nauplii	23.7	153.6
Decapod zoea	13.0	9.6
Decapod megalopa	0.5	0
Decapod larvae	107.1	3.2
Stomatopod larvae	0.5	0

TABLE 2-4 CONT.'D

Other crustacean larvae	2.8	0
Medusae	9.3	0
Polychaeta	0.5	0
Gastropod larvae	13.4	57.6
Heteropoda	0	0
Pteropoda	0	0
Bivalve larvae	53.3	28.8
Chaetognatha	21.3	480.0
Larvacea	14.4	96.0
<u>Doliolum</u>	0	0
<u>Salpa</u>	0	0
Echinoderm larvae	0	0
Others	0	0

TABLE 2-5

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W14

	4-4-63	5-2-63	5-21-63	6-26-63	7-16-63	8-30-63
No. of Zoopl./m ³	1434.5	1367.0	1408.9	1289.5	1790.8	642.6
Copepoda	1059.1	778.4	509.4	963.6	1116.1	268.8
<u>Others:</u>	375.4	588.5	899.5	325.8	674.7	373.8
Foraminifera	13.3	22.3	7.9	29.1	10.8	6.7
Radiolaria	0	0	126.2	1.5	6.0	0.3
Cladocera						
<u>Evadne</u>	0	0	0.9	57.5	6.0	0
<u>Penilia</u>	14.8	282.4	35.1	2.9	77.8	3.2
<u>Podon</u>	0.8	4.9	0	26.2	26.3	1.0
Ostracoda						
<u>Euconchoecia</u>	18.0	2.8	303.3	8.7	59.8	1.0
Mysidacea	0.8	5.6	0	0	0	0.3
Amphipoda	2.3	4.2	19.3	17.5	8.4	1.0
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	1.6	0	7.0	1.5	2.4	1.9
Other crustaceans	0	0	4.4	0.7	0	0
Barnacle nauplii	0	0	0	0	1.2	0
Barnacle cypris	49.2	1.4	25.4	0	2.4	0.6
Other nauplii	13.3	6.3	1.8	9.5	1.2	0
Decapod zoea	0.8	7.0	9.6	12.4	21.5	6.4
Decapod megalopa	0	0	0	0	0	0.3
Decapod larvae	1.6	13.9	6.1	2.2	4.8	3.5
Stomatopod larvae	0	2.1	0	0	4.8	0.3
Other crustacean larvae	0.8	1.4	0	2.2	0	0

TABLE 2-5 CONT.'D

Medusae	83.5	97.4	35.9	30.5	56.2	19.8
Polychaeta	14.0	5.6	7.9	0.7	31.1	10.9
Gastropod larvae	15.6	34.1	60.5	40.0	26.3	54.7
Heteropoda	0	0	0.9	0	4.8	0
Pteropoda	0.8	0.7	6.1	9.5	8.4	101.4
Bivalve larvae	7.0	31.3	103.5	7.3	7.2	41.9
Chaetognatha	27.3	32.0	127.1	37.8	110.1	37.4
Larvacea	57.8	15.3	7.0	21.8	181.8	59.5
<u>Doliolum</u>	45.3	6.3	2.6	2.9	13.2	18.6
<u>Salpa</u>	0	2.8	0	0	0	0
Other urochordates	0	4.9	0	2.2	0	0
Echinoderm larvae	4.7	2.1	0.9	1.5	0	1.9
Others	2.3	2.1	0	0	2.4	1.0

TABLE 2-5 CONT. 'D

	10-2-63	11-1-63	11-30-63	1-28-64	2-19-64	3-21-64
No. of Zoopl./m ³	615.0	1358.5	780.4	1314.5	433.6	1330.2
Copepoda	395.3	603.6	267.6	538.1	183.6	916.3
<u>Others:</u>	219.7	754.9	512.8	776.4	250.0	413.9
Foraminifera	2.0	5.8	1.7	26.9	6.8	13.2
Radiolaria	0	2.9	0.3	5.9	0.7	2.4
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	8.7	3.3	3.4	0.2	3.0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	1.6	75.6	160.0	284.6	56.7	19.1
Mysidacea	0	2.9	0	0	0	0.6
Amphipoda	0.4	5.8	2.5	12.6	1.8	13.2
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.4	0	0.8	0	0.1	0
Other crustaceans	0.4	0	0	0	0	0
Barnacle nauplii	0	1.5	0	4.2	1.4	2.4
Barnacle cypris	0	1.5	0	0	0.4	31.7
Other nauplii	0.8	16.0	6.3	16.8	13.1	6.0
Decapod zoea	1.2	55.3	1.9	1.7	0	0
Decapod megalopa	0.8	0	0	0	0	0.6
Decapod larvae	11.3	8.7	5.8	0	0.3	0
Stomatopod larvae	0	0	0.3	0	0	0
Other crustacean larvae	1.6	7.3	3.0	0	0	1.2

TABLE 2-5 CONT.'D

Medusae	18.0	37.8	29.2	92.6	23.4	95.1
Polychaeta	21.5	24.7	17.9	9.3	0.5	20.9
Gastropod larvae	26.5	10.2	18.2	1.7	0.2	12.0
Heteropoda	0	1.5	0	0	0	0
Pteropoda	0	21.8	40.3	0	0	0.6
Bivalve larvae	6.6	36.4	137.7	19.4	3.3	70.0
Chaetognatha	27.7	103.3	45.2	56.4	22.7	56.2
Larvacea	98.7	80.0	27.9	197.9	77.5	53.2
<u>Doliolum</u>	0	245.8	5.5	41.3	40.7	12.6
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0.4	0	1.4	0.8	0	0
Others	0	1.5	3.6	0.8	0.1	0

TABLE 2-5 CONT. 'D

	4-16-64	5-23-64	6-25-64	7-17-64	8-30-64	9-27-64
No. of Zoopl./m ³	1858.9	518.7	2156.2	4990.7	1545.5	2530.1
Copepoda	1254.5	197.8	959.3	2293.8	848.0	1692.2
<u>Others:</u>	604.4	320.9	1196.9	2697.0	697.5	838.0
Foraminifera	2.2	2.3	65.3	48.6	81.5	0
Radiolaria	0	0.4	19.1	0	3.9	0
Cladocera						
<u>Evadne</u>	2.9	4.2	22.4	48.6	0.3	0
<u>Penilia</u>	4.4	2.3	17.2	88.3	30.2	37.5
<u>Podon</u>	16.7	127.1	92.4	19.2	2.1	3.4
Ostracoda						
<u>Euconchoecia</u>	2.9	0.3	211.1	802.6	26.7	0
Mysidacea	0	0	0.7	0	0	0.9
Amphipoda	0	0.6	31.7	24.3	15.1	4.3
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	1.3	9.9	0	8.0	16.2
Other crustaceans	0	0	0.7	0	0	0.9
Barnacle nauplii	0	1.3	0	2.6	0	0
Barnacle cypris	0.7	1.7	2.6	5.1	0	0
Other nauplii	2.2	7.0	13.2	7.7	6.5	43.5
Decapod zoea	0	3.3	7.9	6.4	8.9	1.7
Decapod megalopa	0	0.1	0	0	0	0
Decapod larvae	0.7	10.6	5.9	21.8	7.4	51.2
Stomatopod larvae	0	0.3	0.7	2.6	0.9	0
Other crustacean larvae	0	0	0.7	2.6	3.3	2.6

TABLE 2-5 CONT. 'D

Medusae	56.7	7.9	15.8	14.1	13.3	25.6
Polychaeta	28.4	1.0	6.6	9.0	8.0	4.3
Gastropod larvae	48.7	4.4	49.5	599.0	88.3	206.5
Heteropoda	0	2.2	2.0	0	1.5	0
Pteropoda	2.2	0.4	24.4	52.5	36.1	3.4
Bivalve larvae	135.3	38.3	44.9	681.0	144.9	122.9
Chaetognatha	21.1	16.4	208.5	108.8	47.1	232.1
Larvacea	201.5	21.1	334.5	137.0	149.0	73.4
<u>Doliolum</u>	58.2	64.1	6.6	2.6	3.6	0
<u>Salpa</u>	0	0.6	0	12.8	11.0	0
Other urochordates	0.7	0	0	0	0	0
Echinoderm larvae	9.5	1.3	2.6	0	0	3.4
Others	9.5	0.1	0	0	0	4.3

TABLE 2-5 CONT. 'D

	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65	3-22-65
No. of Zoopl./m ³	969.3	783.9	725.9	1140.9	823.0	756.0
Copepoda	494.0	334.8	397.5	549.6	373.4	509.2
<u>Others:</u>	475.3	449.1	328.4	591.3	449.7	246.8
Foraminifera	9.7	0	0.9	4.2	10.3	0
Radiolaria	1.0	3.2	0.7	2.1	0	0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	1.7	8.5	0.7	6.3	0.3	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	77.0	83.6	170.0	15.3	74.9	45.6
Mysidacea	0	1.1	0.2	0	0	0.4
Amphipoda	6.0	6.9	1.8	1.4	5.6	2.8
Euphausiacea	0.3	0	0	0	0	0
<u>Lucifer</u>	8.0	1.6	2.1	0	0	0
Other crustaceans	0	0.5	0	0	0	0
Barnacle nauplii	0	0	0	0	1.0	0
Barnacle cypris	0	0	0	0	3.6	0
Other nauplii	1.7	5.3	20.3	4.2	29.2	0.4
Decapod zoea	16.3	9.0	16.0	0.7	1.3	0.4
Decapod megalopa	0	0	0	0	0.3	0.4
Decapod larvae	16.0	3.7	1.8	0	0.3	0
Stomatopod larvae	0.3	0	0	0	0	0.4
Other crustacean larvae	0	4.2	0.4	0	0.3	0

TABLE 2-5 CONT.'D

Medusae	28.7	36.5	14.8	36.2	5.6	12.0
Polychaeta	3.0	9.0	5.0	39.0	14.6	7.2
Gastropod larvae	79.7	21.7	9.8	8.3	58.0	14.8
Heteropoda	0	0	0.2	0	0	0
Pteropoda	1.7	2.6	2.8	0	6.6	0
Bivalve larvae	95.7	50.2	33.8	358.3	144.2	82.8
Chaetognatha	88.3	170.3	29.2	39.7	31.2	47.6
Larvacea	22.0	18.5	16.9	57.0	61.0	31.6
<u>Doliolum</u>	8.3	10.0	0.7	2.1	1.0	0
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	10.0	0	0.5	16.7	0	0
Others	0	2.6	0	0	0	0.4

TABLE 2-5 CONT. 'D

	4-23-65	5-29-65	6-12-65	9-10-65
No. of Zoopl./m ³	2325.9	2231.5	2157.2	1659.9
Copepoda	1378.3	1150.9	1298.8	877.6
<u>Others:</u>	947.5	1080.5	858.4	782.3
Foraminifera	20.3	0	0	17.4
Radiolaria	0	0	0	3.1
Cladocera				
<u>Evadne</u>	9.4	0	0	0
<u>Penilia</u>	0	0	0	57.3
<u>Podon</u>	9.4	3.7	4.7	18.4
Ostracoda				
<u>Euconchoecia</u>	67.1	2.7	22.3	5.1
Mysidacea	1.6	0	0	0
Amphipoda	10.9	19.2	41.1	35.8
Euphausiacea	0	1.1	0	0
<u>Lucifer</u>	0	5.9	0	6.1
Other crustaceans	0	0	0	0
Barnacle nauplii	0	0.5	0	0
Barnacle cypris	79.6	42.1	23.5	4.1
Other nauplii	17.2	284.3	59.9	5.1
Decapod zoea	7.8	21.3	8.2	0
Decapod megalopa	0	2.1	1.2	0
Decapod larvae	4.7	206.4	220.8	25.6
Stomatopod larvae	1.6	2.1	1.2	0
Other crustacean larvae	3.1	1.1	0	3.1

TABLE 2-5 CONT.'D

Medusae	54.6	40.0	29.4	74.8
Polychaeta	7.8	1.6	7.0	39.9
Gastropod larvae	46.8	57.6	52.8	269.3
Heteropoda	0	0	0	0
Pteropoda	0	0.5	0	16.4
Bivalve larvae	85.9	66.7	77.5	58.4
Chaetognatha	78.0	290.1	171.4	49.2
Larvacea	388.7	13.3	66.9	88.1
<u>Doliolum</u>	53.1	18.1	68.1	5.1
<u>Salpa</u>	0	0	0	0
Other urochordates	0	0	0	0
Echinoderm larvae	0	0	2.3	0
Others	0	0	0	0

TABLE 2-6
 NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W15

	3-8-63	4-3-63	5-20-63	6-26-63	7-16-63	8-30-63
No. of Zoopl./m ³	863.2	3485.0	2108.3	1013.3	683.2	632.2
Copepoda	666.2	2025.1	1176.1	607.6	345.1	329.1
<u>Others:</u>	197.1	1459.8	932.2	405.8	338.2	303.0
Foraminifera	0	77.7	12.1	44.4	107.8	11.8
Radiolaria	0	15.2	64.9	12.4	13.8	10.1
Cladocera						
<u>Evadne</u>	0	3.0	12.1	30.7	0	0
<u>Penilia</u>	0	3.0	137.3	1.3	0.6	9.1
<u>Podon</u>	0	1.5	79.8	50.2	9.2	4.6
Ostracoda						
<u>Euconchoecia</u>	82.5	748.2	296.8	72.4	1.7	1.3
<u>Conchoecia</u>	0.3	0	0.9	0	0	0.3
Other ostracods	0	0	0	0	0	0
Mysidacea	0	4.6	0.9	0	0	0
Amphipoda	2.0	64.0	33.4	10.2	0.3	0.3
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.3	1.5	0.9	1.8	0.9	0
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0.8	0	0	0	0	0
Barnacle cypris	3.3	50.3	7.4	0	0	0
Other nauplii	2.5	1.5	5.6	0.4	0.9	0
Decapod zoea	0	1.5	3.7	4.4	1.2	1.3
Decapod megalopa	0	1.5	0	0.4	0	0.3
Decapod larvae	1.0	4.6	3.7	3.6	1.7	1.0
Stomatopod larvae	0.3	0	0	1.3	2.6	0.3

TABLE 2-6 CONT.'D

Other crustacean larvae	0	0	0	0	0	1.0
Medusae	19.3	25.9	17.6	15.1	23.4	15.3
Polychaeta	0.8	3.0	4.6	1.8	2.0	2.0
Gastropod larvae	3.0	221.0	39.0	21.8	17.3	18.9
Heteropoda	0	0	0	0.4	0.3	0
Pteropoda	0.3	15.2	18.6	5.3	6.1	13.1
Cephalopoda	0	0	0	0.4	0	0
Bivalve larvae	1.0	16.8	33.4	6.2	2.0	1.3
Other mollusca	0	6.1	0	0	0.3	0
Chaetognatha	22.9	121.9	56.6	65.3	21.9	19.9
Larvacea	30.5	57.9	39.9	39.6	117.3	60.7
<u>Doliolum</u>	22.1	12.2	34.3	14.2	5.5	1.6
<u>Salpa</u>	0	0	13.9	1.8	0	126.0
Echinoderm larvae	0.3	0	4.6	0	1.4	1.6
Others	4.1	1.5	10.2	0	0	1.0

TABLE 2-6 CONT. 'D

	10-2-63	10-31-63	11-30-63	12-19-63	1-28-64	2-19-64
No. of Zoopl./m ³	2383.2	1490.5	1703.3	2158.4	778.0	848.6
Copepoda	1239.6	659.6	622.9	1108.8	426.6	349.3
<u>Others:</u>	1143.6	830.9	1080.3	1049.6	351.5	499.4
Foraminifera	28.6	3.7	17.9	0	6.8	29.7
Radiolaria	0	0	10.2	0	1.4	1.3
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	1.7	0	0	1.6	3.8	3.2
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	279.6	382.9	515.4	790.4	20.6	11.2
<u>Conchoecia</u>	0	0	0	0	0.3	0
Other ostracods	0	0.5	0	0	0	0
Mysidacea	0	4.8	0	1.6	1.4	0
Amphipoda	6.7	5.8	6.0	0	3.8	2.1
Euphausiacea	0	0	0	1.6	0.3	0
<u>Lucifer</u>	0	1.6	6.8	1.6	0.8	0
Other crustaceans	0	0	0	0	0	0.2
Barnacle nauplii	0	0	0	0	0.5	0.2
Barnacle cypris	1.7	0	0	0	0	0
Other nauplii	6.7	2.6	4.3	17.6	15.7	26.1
Decapod zoea	168.4	33.3	29.9	6.4	0.5	0
Decapod megalopa	0	0	0.9	0	0.3	0
Decapod larvae	15.2	4.8	23.0	17.6	1.6	0
Stomatopod larvae	1.7	0	0.9	0	0	0

TABLE 2-6 CONT.'D

Other crustacean larvae	193.7	10.0	0	3.2	0.3	0.8
Medusae	13.5	44.4	45.2	19.2	24.1	24.2
Polychaeta	3.4	5.3	13.7	6.4	3.0	6.1
Gastropod larvae	151.6	15.9	55.5	16.0	1.6	4.8
Heteropoda	0	0	0	0	0	0
Pteropoda	6.7	7.9	27.3	12.8	0.8	0.4
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	45.5	20.6	170.7	19.2	9.8	37.9
Other mollusca	0	0	0	0	0	0.2
Chaetognatha	70.7	70.9	46.9	67.2	34.2	30.9
Larvacea	131.4	184.1	52.9	35.2	190.1	226.1
<u>Doliolum</u>	1.7	28.6	48.6	24.0	26.6	89.5
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	3.2	4.3	8.0	3.0	4.0
Others	15.2	0	0	0	0.3	0.2

TABLE 2-6 CONT. 'D

	3-19-64	4-15-64	5-23-64	6-25-64	7-17-64	8-30-64
No. of Zoopl./m ³	1318.4	3811.9	1653.8	1776.4	2277.8	1205.9
Copepoda	722.3	1348.9	674.9	522.4	1344.0	611.6
<u>Others:</u>	596.1	2462.9	979.1	1254.1	933.8	594.3
Foraminifera	24.7	61.9	69.4	53.6	55.3	35.6
Radiolaria	5.5	56.3	10.2	0.6	10.2	2.7
Cladocera						
<u>Evadne</u>	0	2.8	10.9	9.8	0	0
<u>Penilia</u>	0.9	7.0	12.9	58.2	33.5	33.4
<u>Podon</u>	0	22.5	66.7	156.3	45.1	33.6
Ostracoda						
<u>Euconchoecia</u>	135.3	83.0	63.3	250.2	82.9	20.8
<u>Conchoecia</u>	0	0	0	0	0	0
Other ostracods	0	0	0	0	0	0
Mysidacea	1.8	4.2	0.7	0	0	0
Amphipoda	14.8	5.6	7.5	11.5	4.4	6.3
Euphausiacea	0	0	0.7	0	0	0
<u>Lucifer</u>	0	0	0.7	0.6	0	3.3
Other crustaceans	0	0	0	0	2.9	0
Barnacle nauplii	0	0	1.4	0	0	0.3
Barnacle cypris	5.5	9.8	2.7	4.6	1.5	0.3
Other nauplii	32.9	12.7	8.9	4.6	4.4	13.4
Decapod zoea	0	7.0	6.8	4.6	1.5	3.3
Decapod megalopa	0	0	0.7	0	1.5	0.3
Decapod larvae	3.7	1.4	4.8	3.5	2.9	3.8
Stomatopod larvae	0	1.4	3.4	0.6	0	0.3

TABLE 2-6 CONT.'D

Other crustacean larvae	0	0	2.0	0	0	2.2
Medusae	26.5	54.9	34.7	6.3	20.4	26.5
Polychaeta	7.3	28.1	5.4	2.9	16.0	10.4
Gastropod larvae	12.8	91.4	102.8	133.2	37.8	63.5
Heteropoda	0	0	0	2.3	7.3	0.5
Pteropoda	0.9	9.8	15.7	46.1	23.3	22.4
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	117.9	1261.7	38.8	15.6	8.7	43.2
Other mollusca	0	0	0	0	0	0
Chaetognatha	91.4	468.4	111.0	115.9	110.5	78.2
Larvacea	97.8	212.4	324.8	366.7	430.5	183.0
<u>Doliolum</u>	14.6	18.3	53.8	4.0	13.1	2.7
<u>Salpa</u>	0	9.8	15.7	0	0	2.5
Echinoderm larvae	0.9	26.7	1.4	1.2	11.6	0.5
Others	0.9	5.6	1.4	1.2	8.7	1.4

TABLE 2-6 CONT. 'D

	9-27-64	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65
No. of Zoopl./m ³	1478.8	2938.7	2844.8	2506.1	393.2	1406.2
Copepoda	810.2	1851.6	1825.4	1184.3	161.9	624.9
<u>Others:</u>	668.6	1087.1	1019.4	1321.8	231.3	781.3
Foraminifera	2.1	12.3	23.1	9.4	3.2	49.8
Radiolaria	0	15.8	21.9	6.7	1.3	0.4
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	4.3	35.1	24.2	1.3	0.2	0
<u>Podon</u>	0	0	0	1.3	0	0
Ostracoda						
<u>Euconchoecia</u>	218.5	326.1	212.2	543.0	88.1	434.2
<u>Conchoecia</u>	0	0	0	0	1.1	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0.9	0	3.5	0	0	0
Amphipoda	8.6	1.8	18.5	1.3	0.6	8.0
Euphausiacea	0	0	0	0	0	0.4
<u>Lucifer</u>	0	3.5	11.5	9.4	0.2	0.9
Other crustaceans	12.4	0	0	1.3	0.2	0
Barnacle nauplii	0	0	0	0	0	0.9
Barnacle cypris	0	0	0	0	0	3.6
Other nauplii	4.3	1.8	5.8	31.0	1.9	3.6
Decapod zoea	4.7	80.7	129.2	97.0	1.1	1.8
Decapod megalopa	1.3	0	0	0	0	0.9
Decapod larvae	0	5.3	30.0	2.7	2.8	4.4
Stomatopod larvae	0	0	0	0	0	0

TABLE 2-6 CONT.'D

Other crustacean larvae	0	8.8	2.3	4.0	0	0
Medusae	27.3	54.4	77.3	16.2	19.0	5.8
Polychaeta	37.1	10.5	16.1	10.8	2.8	3.6
Gastropod larvae	208.2	35.1	15.0	128.0	6.6	33.3
Heteropoda	0	1.8	0	0	0	0
Pteropoda	9.8	3.5	1.2	21.6	1.5	19.6
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	27.3	8.8	24.2	88.9	10.2	63.1
Other mollusca	0	0	0	0	0	0
Chaetognatha	57.6	136.8	189.1	311.2	40.7	66.7
Larvacea	37.5	298.1	174.1	32.3	35.8	72.4
<u>Doliolum</u>	1.3	42.1	28.8	0	8.3	7.6
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	5.3	10.4	2.7	5.5	0
Others	5.5	0	1.2	1.3	0	0.4

TABLE 2-6 CONT.'D

	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65	9-11-65	12-10-65
No. of Zoopl./m ³	1189.7	3833.1	2523.2	634.1	623.0	1008.4	1027.5
Copepoda	693.8	1453.7	1626.0	282.8	343.2	547.6	476.5
<u>Others:</u>	495.9	2379.4	897.3	351.3	279.8	460.8	550.9
Foraminifera	25.7	76.6	78.6	7.3	17.0	27.3	9.5
Radiolaria	1.2	5.7	0	0.3	0.2	1.1	3.5
Cladocera							
<u>Evadne</u>	0	2.3	0	0	0	0	0
<u>Penilia</u>	0	1.1	0	0	5.9	0.6	0
<u>Podon</u>	0	2.3	52.0	81.7	0.8	3.3	0.9
Ostracoda							
<u>Euconchoecia</u>	122.0	1390.9	103.9	2.8	42.5	28.9	303.6
<u>Conchoecia</u>	0	1.1	0	0	0	0	0
Other ostracods	0	0	0	0	0	0	0
Mysidacea	0.6	1.1	1.3	0	0	1.1	1.7
Amphipoda	7.2	83.4	20.3	8.0	7.4	6.1	1.7
Euphausiacea	1.2	0	0	0	0	0	0
<u>Lucifer</u>	1.2	1.1	2.5	1.0	0.8	0	0.9
Other crustaceans	1.2	0	1.3	0	0	0	0
Barnacle nauplii	0.6	1.1	0	0	0	0	0
Barnacle cypris	0.6	42.3	21.5	2.4	4.0	0	13.0
Other nauplii	35.3	3.4	25.3	9.4	1.9	2.8	0.9
Decapod zoea	2.4	10.3	6.3	10.1	13.9	2.2	7.8
Decapod megalopa	1.8	0	12.7	0	0.2	0.6	0
Decapod larvae	0.6	9.1	8.9	0.3	9.7	1.7	6.9
Stomatopod larvae	0	1.1	1.3	0	0.2	0	0

TABLE 2-6 CONT. 'D

Other crustacean larvae	0	21.7	17.7	0.3	1.1	0.6	3.5
Medusae	12.6	5.7	20.3	4.2	2.1	9.5	13.8
Polychaeta	3.0	1.1	5.1	3.1	5.3	6.1	1.7
Gastropod larvae	17.9	67.4	88.7	21.6	48.2	66.2	71.8
Heteropoda	1.8	0	0	0	1.0	0	0
Pteropoda	8.4	158.9	6.3	3.1	19.2	10.0	6.9
Cephalopoda	0	0	0	0	0	0	0
Bivalve larvae	134.6	0	41.8	5.6	52.6	8.9	37.2
Other mollusca	0	0	0	0	0	0	0
Chaetognatha	76.0	67.4	325.7	41.4	22.9	22.8	45.8
Larvacea	21.5	424.0	50.7	72.7	14.5	261.0	13.0
<u>Doliolum</u>	14.4	0	2.5	75.8	0.6	0	3.5
<u>Salpa</u>	0.6	0	2.5	0	8.0	0	0
Echinoderm larvae	0.6	0	0	0	0	0	0
Others	3.0	0	0	0	0	0	3.5

TABLE 2-7

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M³ AT STATION W57

	3-8-63	4-3-63	5-2-63	5-20-63	6-26-63	7-17-63
No. of Zoopl./m ³	998.9	2121.1	1092.5	2353.5	533.8	677.1
Copepoda	638.6	1363.4	728.5	1199.8	363.4	528.8
<u>Others</u>	360.3	757.7	364.0	1153.7	170.5	148.3
Foraminifera	0.6	75.4	20.4	15.4	18.5	52.3
Radiolaria	0	10.3	0	41.0	1.5	2.5
Cladocera						
<u>Evadne</u>	0	0	30.2	70.0	19.7	0
<u>Penilia</u>	0	0	4.1	180.9	9.5	3.0
<u>Podon</u>	0	0	0	0	28.9	7.6
Ostracoda						
<u>Euconchoecia</u>	153.4	148.6	0.8	599.0	0	0
<u>Conchoecia</u>	0.3	0	0	0.9	0.3	0
Mysidacea	0	0	0	2.6	0	0
Amphipoda	6.9	193.1	4.1	33.3	5.8	1.5
Euphausiacea	0	0	0	0	0	0.5
<u>Lucifer</u>	0.6	2.3	0	0	0	0.5
Other crustaceans	0	0	0.4	0	0.6	0
Barnacle nauplii	0	0	0	0	1.2	0
Barnacle cypris	0.6	12.6	3.7	7.7	0	0
Other nauplii	6.0	6.9	4.9	6.0	1.5	0.5
Decapod zoea	0.6	0	0.4	5.1	0.6	4.1
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.6	6.9	4.9	4.3	0.6	3.6
Stomatopod larvae	0	0	2.4	0.9	0.3	4.1

TABLE 2-7 CONT. 'D

Other crustacean larvae	1.7	0	6.1	0	0	0
Medusae	8.3	44.6	26.1	18.8	16.6	12.2
Polychaeta	0.6	0	5.7	6.0	1.8	4.1
Gastropod larvae	0.9	41.1	54.2	11.1	8.9	17.3
Heteropoda	0	0	0	0.9	0	0
Pteropoda	1.4	6.9	17.1	11.1	2.5	1.0
Cephalopoda	0	0	0	0.9	0	0
Bivalve larvae	1.4	8.0	6.5	23.9	3.1	0.5
Other mollusca	0	0	0	0	0	0
Chaetognatha	24.6	184.0	66.4	65.7	13.5	13.2
Larvacea	141.1	12.6	92.9	19.6	5.5	15.2
<u>Doliolum</u>	6.0	3.4	3.7	12.8	1.2	1.0
<u>Salpa</u>	0	0	0.8	14.5	27.4	2.0
Echinoderm larvae	0.6	1.1	6.1	1.7	0.6	0.5
Others	4.3	0	2.0	0	0	1.0

(+) = 0.05%

TABLE 2-7 CONT. 'D

	8-30-63	10-2-63	10-31-63	11-30-63	12-18-63	1-28-64
No. of Zoopl./m ³	112.9	781.2	748.0	631.5	57.2	282.1
Copepoda	67.4	641.5	470.1	378.9	39.7	187.5
<u>Others</u>	45.6	139.7	277.9	252.6	17.5	94.6
Foraminifera	1.9	15.7	4.0	7.7	0.1	1.9
Radiolaria	1.4	5.3	0.5	0	0	0
Cladocera						
<u>Evadne</u>	+	0	0	0	0	0
<u>Penilia</u>	2.0	0	0.3	0	0.1	0.1
<u>Podon</u>	0.3	4.6	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.7	8.6	59.2	69.1	2.9	11.5
<u>Conchoecia</u>	0.2	0	0	2.1	0	1.4
Mysidacea	0	0	0	0	0	0
Amphipoda	0.1	1.3	3.5	1.3	+	1.1
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	+	0	0.8	0.9	0.7	0
Other crustaceans	0	0	0	0	+	0
Barnacle nauplii	0	0	0	0	0	0.6
Barnacle cypris	0	0	0	0	0	0.3
Other nauplii	0	0.8	1.3	2.1	0.8	4.1
Decapod zoea	0	1.3	1.9	0.9	0.7	0.2
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.3	1.0	2.4	5.5	0.7	1.2
Stomatopod larvae	0	0	0	0	0	0

TABLE 2-7 CONT. 'D

Other crustacean larvae	0	0	0	2.1	0.2	0
Medusae	3.6	5.6	24.0	10.2	1.9	21.5
Polychaeta	4.8	9.7	2.9	4.7	0.6	1.2
Gastropod larvae	0.9	3.0	43.2	24.7	0.1	0.7
Heteropoda	0	0	0	0.4	0	0.3
Pteropoda	0.6	1.3	2.9	0.4	0.4	0.1
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	0.6	2.3	17.3	10.7	0.3	3.5
Other mollusca	0	0	0	0	0	0
Chaetognatha	3.6	10.9	14.7	20.5	4.8	11.7
Larvacea	16.7	58.2	92.0	75.1	2.3	27.4
Doliolum	1.0	1.5	5.3	7.3	0.8	5.4
Salpa	6.5	0.3	0.8	3.0	0.1	0.2
Echinoderm larvae	0.2	8.4	0.8	3.0	+	0
Others	+	0	0	0.9	0	0.1

TABLE 2-7 CONT.'D

	2-19-64	3-18-64	4-15-64	5-23-64	6-25-64	7-16-64
No. of Zoopl./m ³	251.7	1468.0	4476.9	1167.7	754.0	1673.1
Copepoda	94.3	959.5	2395.4	557.4	366.4	896.5
<u>Others</u>	157.5	508.5	2081.5	610.3	387.6	776.6
Foraminifera	6.5	2.0	0	35.1	44.6	0
Radiolaria	0	0	0	2.3	0.6	0
Cladocera						
<u>Evadne</u>	0	0	79.2	1.7	3.2	2.9
<u>Penilia</u>	0.5	0.5	18.3	18.6	46.8	34.4
<u>Podon</u>	0	3.0	21.3	34.3	3.6	21.5
Ostracoda						
<u>Euconchoecia</u>	9.8	142.1	883.8	109.1	8.3	297.6
<u>Conchoecia</u>	0	5.5	0	0	0	0.5
Mysidacea	0	0	0	0	0	0
Amphipoda	1.9	25.7	18.3	8.9	9.9	11.9
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.5	6.1	0.6	0	1.9
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	0	0	1.4	0	0
Barnacle cypris	0	0	36.6	5.1	12.4	2.9
Other nauplii	16.1	60.5	0	5.1	2.0	6.2
Decapod zoea	0.3	3.5	3.0	6.3	2.0	0.5
Decapod megalopa	0	1.0	3.0	0.6	0.8	0.5
Decapod larvae	0	25.2	0	5.1	0.6	2.4
Stomatopod larvae	0	0.5	0	0.3	0.8	0.5

TABLE 2-7 CONT. 'D

Other crustacean larvae	0.3	20.2	45.7	2.0	0.6	0
Medusae	6.4	18.6	39.6	17.7	13.2	21.5
Polychaeta	3.7	12.1	21.3	2.9	2.2	9.1
Gastropod larvae	2.3	13.1	185.9	65.7	32.4	27.2
Heteropoda	0	0.5	6.1	1.7	0.2	1.0
Pteropoda	0	3.5	0	7.7	5.3	11.5
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	10.7	52.9	359.6	50.0	4.3	2.9
Other mollusca	0	0	0	0	7.3	1.4
Chaetognatha	5.9	29.2	243.8	76.3	106.3	39.6
Larvacea	31.6	67.0	64.0	128.0	50.6	267.9
<u>Doliolum</u>	58.9	19.2	42.7	18.6	2.2	6.7
<u>Salpa</u>	0	0	0	4.0	6.5	1.0
Echinoderm larvae	1.9	1.5	3.0	0.6	2.8	3.3
Others	0.6	0.5	0	0.6	18.0	0

TABLE 2-7 CONT.'D

	8-30-64	9-28-64	10-29-64	11-26-64	12-16-64	1-7-65
No. of Zoopl./m ³	2093.8	2283.4	1451.9	888.4	729.9	687.8
Copepoda	1118.8	1433.7	1025.5	440.7	486.5	471.7
<u>Others</u>	974.9	849.7	426.4	447.7	243.5	216.1
Foraminifera	119.1	25.0	22.7	2.7	25.1	9.8
Radiolaria	16.8	0	36.6	0	13.8	6.4
Cladocera						
<u>Evadne</u>	3.3	0	0	0	0	0
<u>Penilia</u>	7.9	11.8	11.0	3.3	1.3	0
<u>Podon</u>	185.5	25.7	0.7	0	0	0
Ostracoda						
<u>Euconchoecia</u>	15.4	203.0	31.5	1.6	27.2	3.2
<u>Conchoecia</u>	1.4	0	0	0.8	5.2	6.0
Mysidacea	0	2.2	1.5	0	0	0
Amphipoda	5.6	9.6	7.3	2.4	1.3	2.3
Euphausiacea	0	0	0.7	0	0	0
<u>Lucifer</u>	0	2.9	1.5	0.3	0.9	3.6
Other crustaceans	0	0.7	0	0	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	0	0	0.7	0	0	0
Other nauplii	7.9	3.7	2.9	7.3	24.6	6.6
Decapod zoea	2.8	9.6	1.5	6.2	2.2	0.6
Decapod megalopa	0	0	0	0.3	3.0	0
Decapod larvae	1.9	2.2	8.0	2.4	3.5	2.3
Stomatopod larvae	0.9	0	0	0.5	0	0

TABLE 2-7 CONT. 'D

Other crustacean larvae	1.4	3.7	0	0.8	0.9	1.3
Medusae	73.3	23.5	14.6	18.7	9.1	31.1
Polychaeta	8.9	6.6	1.5	1.6	1.3	6.4
Gastropod larvae	10.3	90.5	9.5	8.9	21.2	2.6
Heteropoda	1.4	0	0.7	0	0	0.6
Pteropoda	8.4	16.2	1.5	12.7	5.6	1.7
Cephalopoda	0	0	0	0	0	0.2
Bivalve larvae	1.4	28.0	5.1	0.8	7.8	0.9
Other mollusca	0	0	0	0.8	0	0
Chaetognatha	152.8	22.8	43.2	73.5	9.5	62.1
Larvacea	318.6	349.4	174.8	255.2	57.9	56.5
<u>Doliolum</u>	11.2	5.1	33.6	15.2	6.1	8.3
<u>Salpa</u>	3.7	5.9	0.7	0.5	0	0.2
Echinoderm larvae	14.0	1.5	14.6	30.9	13.0	3.2
Others	0.9	0	0	0	3.0	0

TABLE 2-7 CONT. 'D

	2-27-65	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65
No. of Zoopl./m ³	684.3	1287.9	2030.3	680.2	1240.8	763.8
Copepoda	403.5	937.7	1500.5	326.6	366.4	516.6
<u>Others</u>	280.8	350.2	529.7	353.6	874.4	247.2
Foraminifera	10.1	53.6	8.9	16.8	8.4	17.5
Radiolaria	0	7.3	0	0.4	4.0	5.7
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	0	1.3	0	0	1.1
<u>Podon</u>	0	0	0	1.2	333.2	0
Ostracoda						
<u>Euconchoecia</u>	96.4	1.7	140.7	1.0	0	12.2
<u>Conchoecia</u>	2.0	1.7	7.6	0	0.4	1.9
Mysidacea	2.8	0	0	0	0	0
Amphipoda	5.0	5.6	5.1	4.0	6.4	8.4
Euphausiacea	0	5.6	0	0	0	0
<u>Lucifer</u>	0	1.7	0	6.4	0.4	1.5
Other crustaceans	0	0	0	0.2	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	0.9	2.3	3.8	17.4	0	0.4
Other nauplii	4.0	9.0	5.1	9.4	21.2	0
Decapod zoea	0.7	1.7	11.4	1.2	2.4	3.0
Decapod megalopa	0.4	0.6	1.3	0.2	0	0
Decapod larvae	2.8	2.8	7.6	11.6	9.6	1.9
Stomatopod larvae	0	0	0	0.8	0.4	0

TABLE 2-7 CONT.'D

Other crustacean larvae	0.9	2.8	1.3	0.8	0	1.5
Medusae	5.3	76.1	10.1	10.8	25.6	16.0
Polychaeta	5.5	4.5	7.6	2.8	0.8	4.6
Gastropod larvae	24.5	10.1	27.9	55.2	9.6	16.8
Heteropoda	0.2	0	2.5	0.2	0	0.4
Pteropoda	6.3	9.0	1.3	1.2	2.4	9.1
Cephalopoda	0	1.1	0	0	0	0
Bivalve larvae	39.4	1.7	44.4	8.0	8.8	5.7
Other mollusca	0.4	0	1.3	0.6	0	0
Chaetognatha	18.0	75.6	187.6	81.0	54.4	44.2
Larvacea	53.7	46.2	52.0	120.6	335.6	71.6
Doliolum	1.1	29.3	0	1.2	42.8	5.0
Salpa	0	0	0	0.6	8.0	17.1
Echinoderm larvae	0	0	0	0	0	1.5
Others	0.6	0	1.3	0	0	0

TABLE 2-7 CONT. 'D

	9-11-65	12-10-65
No. of Zoopl./m ³	586.6	1053.3
Copepoda	378.7	540.3
<u>Others</u>	207.9	512.9
Foraminifera	2.1	7.3
Radiolaria	0	0
Cladocera		
<u>Evadne</u>	0	0
<u>Penilia</u>	0	0
<u>Podon</u>	3.2	0
Ostracoda		
<u>Euconchoecia</u>	12.6	113.1
<u>Conchoecia</u>	1.2	1.2
Mysidacea	0.3	3.4
Amphipoda	4.7	6.1
Euphausiacea	0	0
<u>Lucifer</u>	0	3.0
Other crustaceans	0	0
Barnacle nauplii	0	0
Barnacle cypris	42.9	11.3
Other nauplii	0.3	1.8
Decapod zoea	1.5	4.3
Decapod megalopa	0	0.3
Decapod larvae	3.8	18.0
Stomatopod larvae	0	0.3

TABLE 2-7 CONT.'D

Other crustacean larvae	0	0
Medusae	5.6	20.4
Polychaeta	12.6	3.0
Gastropod larvae	8.5	199.3
Heteropoda	0.6	2.4
Pteropoda	3.2	7.0
Cephalopoda	0	0
Bivalve larvae	1.2	32.9
Other mollusca	0	0.3
Chaetognatha	20.6	54.2
Larvacea	77.5	20.4
<u>Doliolum</u>	0.9	2.7
<u>Salpa</u>	4.4	0
Echinoderm larvae	0	0
Others	0.3	0

TABLE 3-1
 PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W60

	3-9-63	4-5-63	6-28-63	7-15-63	8-29-63	10-4-63
Copepoda %	36.2	76.4	34.4	32.8	20.0	77.1
Others %	63.8	23.6	65.6	67.2	80.0	22.9
Cladocera						
<u>Evadne</u>	0	0	0.3	0	3.4	0
<u>Penilia</u>	0	0.1	35.8	0.1	7.2	0
<u>Podon</u>	0	0	0.6	0.1	0.1	0
Ostracoda						
<u>Euconchoecia</u>	11.2	0.6	0.2	0	0	0
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	0	0	0	0
Amphipoda	0.6	0	0	0	0	0
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.1	0.1	1.6	0.5	1.3
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0.2	0	0.1	0	0	0
Barnacle cypris	45.6	8.1	0.1	0	0	0
Other nauplii	0.7	0.2	0.8	0.6	0.5	0.2
Decapod zoea	0.1	0.5	0.2	0.9	0.6	0.1
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.1	0.2	0.1	0.6	0.5	0.2
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	0.1	0.1	1.4	4.6	1.5	4.4
Medusae	3.4	1.4	2.2	3.9	0.7	0.2

TABLE 3-1 CONT.'D

Polychaeta	0	0.6	0.6	0.4	1.6	0.1
Gastropod larvae	0.3	0.2	3.9	24.5	23.7	0.1
Heteropoda	0	0	0	0	0	1.4
Pteropoda	0	0.1	0.1	0	0.2	0
Bivalve larvae	0.8	0.3	0.5	26.8	26.9	1.6
Chaetognatha	0.3	0.7	0.2	2.0	3.2	1.3
Larvacea	0.3	8.6	4.4	1.1	4.6	11.7
<u>Doliolum</u>	0	1.8	0	0	2.4	0
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0	13.9	0	2.2	0.2
Others	0	0.1	0	0	0	0

TABLE 3-1 CONT.'D

	11-3-63	12-2-63	12-22-63	1-29-64	2-20-64	3-20-64
Copepoda %	29.5	67.7	66.6	93.7	79.8	70.5
Others %	70.5	32.3	33.4	6.3	20.2	29.5
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	1.3	0.7	0	0	0	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0	0.5	1.1	0.1	0.1	0
<u>Conchoecia</u>	0	0	0	0	0.2	0
Mysidacea	0	2.3	0	0	0	0.4
Amphipoda	0	0.1	0.1	0	0.1	0.1
Euphausiacea	0	0	0	0	0.1	0
<u>Lucifer</u>	0.4	0	0	0	0.1	0
Other crustaceans	0	0	0	0	0.3	0.1
Barnacle nauplii	0	0	0.2	0	1.4	0.1
Barnacle cypris	0	0	0	0.4	3.1	1.6
Other nauplii	2.7	0.6	1.6	0.2	0	0.1
Decapod zoea	0.3	0.6	0	0	0	0
Decapod megalopa	0	0	0	0	0.3	0
Decapod larvae	0	0	0	0	0.1	0
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	0.8	0.3	0	0	0.1	0.4
Medusae	0.1	2.5	21.3	3.9	10.5	11.8

TABLE 3-1 CONT.'D

Polychaeta	1.1	0.1	1.7	0	0.1	8.1
Gastropod larvae	7.8	0.3	0.5	0.1	0.5	0
Heteropoda	0	0	0	0	0	0
Pteropoda	0.6	0	0.1	0	0	0
Bivalve larvae	39.1	3.4	2.7	1.0	0.5	0.1
Chaetognatha	1.3	19.0	3.7	0.1	1.4	2.2
Larvacea	14.7	1.3	0.1	0.6	1.3	4.2
<u>Doliolum</u>	0	0	0	0	0	0
<u>Salpa</u>	0	0	0	0	0.1	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0.2	0.6	0	0	0	0
Others	0	0	0	0	0	0.2

TABLE 3-1 CONT.'D

	4-17-64	5-24-64	6-26-64	7-18-64	8-31-64	9-25-64
Copepoda %	63.2	35.4	78.5	54.6	43.0	84.2
Others %	36.8	64.6	21.5	45.4	57.0	15.8
Cladocera						
<u>Evadne</u>	0	0	0.7	0	1.9	0
<u>Penilia</u>	0.3	0	0.4	0.4	5.9	0
<u>Podon</u>	0.6	0.3	4.1	0.1	0.6	0
Ostracoda						
<u>Euconchoecia</u>	0	0	0	0.1	0	0.1
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	0.1	1.9	0	0.4
Amphipoda	0	0.1	0.1	0.4	0	0.1
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.3	0.7	6.5	0.1	3.0
Other crustaceans	0	0	0	0.4	0	0
Barnacle nauplii	0	0	0	0	0	0.1
Barnacle cypris	0.2	0.2	0.1	0.7	0	0
Other nauplii	0.2	1.1	0	0.4	0.4	0
Decapod zoea	0	0.3	0.2	0.8	0.2	0.4
Decapod megalopa	0	0.1	0.1	0	0	0.2
Decapod larvae	0.1	0.1	0.2	0.7	0.2	0.4
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	0	6.3	0.3	0.7	0.4	1.1
Medusae	1.0	1.6	0.2	0.9	2.8	0

TABLE 3-1 CONT. 'D

Polychaeta	1.9	0	0	0.3	0.3	0.1
Gastropod larvae	1.5	17.4	2.2	7.6	2.0	2.8
Heteropoda	0	0.1	0	0	0	0
Pteropoda	0	0.1	0.4	0.3	0.7	0
Bivalve larvae	7.4	16.0	3.9	6.8	5.9	6.7
Chaetognatha	5.9	15.2	3.2	4.7	2.5	0.1
Larvacea	17.1	3.5	4.6	11.3	32.8	0.5
<u>Doliolum</u>	0.3	0	0	0	0	0
<u>Salpa</u>	0	0	0	0	0.1	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	1.9	0.1	0.4	0	0
Others	0	0	0	0.1	0	0

TABLE 3-1 CONT. 'D

	10-30-64	11-24-64	12-17-64	1-9-65	2-28-65	3-23-65
Copepoda %	77.2	73.4	51.6	72.3	90.9	26.0
Others %	22.8	26.6	48.4	27.7	9.1	74.0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0.1	0	0	0	0	0.2
<u>Podon</u>	0.1	0	0	0.1	0	0
Ostracoda						
<u>Euconchoecia</u>	0	0	0	0.1	0.2	0.1
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	0.1	0	0	0.1
Amphipoda	0	0.2	0.2	0.2	0	0.4
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.2	0.9	0	0	0	0.1
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0.1	0	0	0	0.1	0.3
Barnacle cypris	0	0	0.1	0.1	0	1.9
Other nauplii	4.3	1.8	0.5	0	0	0.2
Decapod zoea	0.1	0	0	0	0	0.3
Decapod megalopa	0	0	0	0.1	0.2	0
Decapod larvae	0	0.3	0	0	2.3	0
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	3.4	2.2	0.1	0.1	0	0.1
Medusae	0.2	0.1	2.1	6.1	2.9	1.4

TABLE 3-1 CONT.'D

Polychaeta	0	1.6	2.0	0.5	0.3	0.5
Gastropod larvae	0.1	0.7	4.4	0.3	0.7	9.1
Heteropoda	0	0	0	0	0	0
Pteropoda	0	0	0	0	0	0
Bivalve larvae	3.4	6.5	23.4	13.9	0.4	49.5
Chaetognatha	2.5	10.9	14.9	1.8	0.7	7.8
Larvacea	8.5	1.3	0.4	4.6	1.5	1.8
<u>Doliolum</u>	0	0	0.1	0	0	0.1
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0.2	0	0	0

TABLE 3-1 CONT.'D

	4-25-65	5-31-65	6-13-65	8-13-65	12-11-65
Copepoda %	37.3	39.7	48.5	39.6	71.5
Others %	62.7	60.3	51.5	60.4	28.5
Cladocera					
<u>Evadne</u>	0	0	0	0	0
<u>Penilia</u>	0	0	0	0.1	0
<u>Podon</u>	0	0	0.1	0.5	0
Ostracoda					
<u>Euconchoecia</u>	0	0	0	0	0
<u>Conchoecia</u>	0	0	0	0.1	0
Mysidacea	0.4	0.9	0	0.4	0
Amphipoda	0.1	0.3	0	0.9	0
Euphausiacea	0	0	0	0	0
<u>Lucifer</u>	0.2	0.8	0.1	12.7	0
Other crustaceans	0.1	0.1	0.1	1.2	0
Barnacle nauplii	0.1	0	0	0	0.1
Barnacle cypris	2.1	1.1	0.2	0	0.2
Other nauplii	0	2.3	0.9	0.2	11.8
Decapod zoea	0.6	0.2	0.3	2.0	0.1
Decapod megalopa	0	0	0.1	2.5	0
Decapod larvae	0.3	9.7	2.5	3.1	0.1
Stomatopod larvae	0	0.1	0	0	0
Other crustacean larvae	36.6	0.5	5.1	4.9	0
Medusae	0	1.1	0.1	0.4	0

TABLE 3-1 CONT.'D

Polychaeta	0	0	0.1	0.3	1.0
Gastropod larvae	7.5	16.1	1.2	4.6	1.4
Heteropoda	0	0	0	0	0
Pteropoda	0	0	1.6	4.9	0
Bivalve larvae	6.8	2.3	0.3	17.1	0
Chaetognatha	6.1	22.7	1.2	1.9	10.2
Larvacea	1.5	1.9	37.4	1.3	3.4
<u>Doliolum</u>	0.1	0	0	0	0
<u>Salpa</u>	0	0	0.1	0	0
Other urochordates	0	0	0	0	0
Echinoderm larvae	0	0	0	0.6	0
Others	0.1	0.1	0	0.7	0.1

TABLE 3-2

PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W61

	3-9-63	4-5-63	6-28-63	8-29-63	10-4-63	11-3-63
Copepoda %	46.6	62.4	73.3	41.3	77.1	48.6
Others %	53.4	37.6	26.7	58.7	22.9	51.4
Cladocera						
<u>Evadne</u>	0	0	0.5	0	0	0
<u>Penilia</u>	0	0.1	6.3	15.6	0	0.3
<u>Podon</u>	0	0	3.8	5.4	0	0
Ostracoda						
<u>Euconchoecia</u>	0.7	20.2	1.8	0.2	0	0.2
<u>Conchoecia</u>	0.6	0	0	0	0	0
Mysidacea	0	0	0	0	0	0.1
Amphipoda	0.3	0.9	0.8	0	0	0.7
<u>Lucifer</u>	0	0	0.1	0.3	0.6	0.5
Other crustaceans	0	0	0	0	0	0.1
Barnacle nauplii	2.0	0	0	0	0.1	0
Barnacle cypris	29.1	0.6	0.1	0	0	0.1
Other nauplii	0	0.7	0.1	0.2	1.1	1.2
Decapod zoea	0	0.3	0.4	0.5	0.1	0.1
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0	0	0.2	0	0.4	0.1
Stomatopod larvae	0	0.1	0.1	0	0	0
Other crustacean larvae	0	0.2	0.1	0.8	2.1	1.8
Medusae	9.5	1.3	3.2	2.5	1.1	2.7
Polychaeta	0.6	0.4	0.1	0.1	0.7	0.6

TABLE 3-2 CONT.'D

Gastropod larvae	0.2	1.0	1.5	7.4	0.3	1.0
Heteropoda	0.1	0	0	0.1	0	0
Pteropoda	0	0.3	0.1	5.2	0	8.7
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	0.7	5.8	0.4	7.4	2.4	27.9
Chaetognatha	1.8	1.3	0.8	2.0	1.7	1.6
Larvacea	3.7	3.3	6.4	5.0	12.3	3.1
<u>Doliolum</u>	3.9	1.2	0	5.0	0	0.6
<u>Salpa</u>	0	0	0	0.9	0	0
Echinoderm larvae	0	0	0	0.1	0.1	0
Others	0	0	0	0	0	0

TABLE 3-2 CONT.'D

	12-2-63	12-22-63	1-29-64	3-19-64	4-17-64	5-24-64
Copepoda %	45.9	24.2	67.9	66.9	52.5	38.2
Others %	54.1	75.8	32.1	33.1	47.5	61.8
Cladocera						
<u>Evadne</u>	0	0	0	0	0.1	0
<u>Penilia</u>	0	0	0	0.1	0.3	0.5
<u>Podon</u>	0	0	0	0	0.2	0.3
Ostracoda						
<u>Euconchoecia</u>	0.8	35.0	1.0	0.5	0	9.5
<u>Conchoecia</u>	1.7	0	0.5	0	0	0
Mysidacea	0	0	0	0.1	0	0
Amphipoda	0.2	0.1	0.1	0.2	0	2.1
<u>Lucifer</u>	0.4	0	0	0	0	0.5
Other crustaceans	0	0	0.1	0	0	0.1
Barnacle nauplii	0	0	0	0	0.1	0
Barnacle cypris	0	0	0	0.6	0	0.1
Other nauplii	7.5	0.4	0.1	0.3	0	4.8
Decapod zoea	0.4	0	0	0.1	0.1	0.6
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.1	0.1	1.8	0.1	0	0.2
Stomatopod larvae	0	0	0	0	0	0.2
Other crustacean larvae	1.2	0	0.1	0.1	0	1.5
Medusae	5.4	13.7	18.7	4.6	2.0	1.6
Polychaeta	0.1	1.0	5.1	10.8	2.6	0.4

TABLE 3-2 CONT. 'D

Gastropod larvae	0.8	1.0	1.4	0.9	8.2	5.8
Heteropoda	0	0	0	0	0	0
Pteropoda	0	0	0	0	0	0.2
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	7.1	19.0	0	1.5	10.5	12.8
Chaetognatha	13.7	5.3	0	0.8	4.2	10.1
Larvacea	0.7	0	2.9	11.9	17.8	9.8
<u>Doliolum</u>	0	0	0	0.3	1.0	0.6
<u>Salpa</u>	0	0	0.2	0.4	0	0
Echinoderm larvae	0	0	0	0.1	0	0.2
Others	0	0.1	0.3	0	0.4	0

TABLE 3-2 CONT.'D

	6-26-64	7-17-64	8-31-64	9-25-64	10-30-64	11-24-64
Copepoda †	57.4	77.4	45.3	81.1	62.4	69.8
Others †	42.6	22.6	54.7	18.9	37.6	30.2
Cladocera						
<u>Evadne</u>	0.1	0	2.3	0	0	0
<u>Penilia</u>	17.5	5.6	6.6	0	0.1	0
<u>Podon</u>	0.2	0	14.1	0.1	0	0
Ostracoda						
<u>Euconchoecia</u>	10.7	0.4	0.3	0	0.7	0.2
<u>Conchoecia</u>	0.5	0	0	0	0	0
Mysidacea	0	0.1	0	0.2	0.1	0.2
Amphipoda	0.7	0.5	0	0	0	1.0
<u>Lucifer</u>	0.2	0.4	0	2.4	0.3	0.2
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0.1	0	0	0	0	0
Barnacle cypris	0	0.2	0	0	0	0
Other nauplii	0.1	0.1	0.1	0.5	2.1	0.9
Decapod zoea	0.2	0.4	0.6	0	0	0.2
Decapod megalopa	0	0	0	0	0	0.1
Decapod larvae	0	0.2	0.1	0.2	0	0
Stomatopod larvae	0.1	0.1	0	0	0	0
Other crustacean larvae	0.6	0.2	0.1	4.6	1.1	0.4
Medusae	0.5	1.9	3.2	0.2	3.1	2.4
Polychaeta	0.1	0.5	0.1	0.1	0.1	0.5

TABLE 3-2 CONT.'D

Gastropod larvae	2.4	0.2	3.0	0.3	0.5	0.5
Heteropoda	0	0	0	0	0	0
Pteropoda	0.4	0.1	0	0	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	2.5	0.8	7.3	2.2	0.1	0.5
Chaetognatha	2.5	3.2	3.6	2.3	3.5	22.4
Larvacea	3.1	7.2	12.7	5.8	26.0	0.9
<u>Doliolum</u>	0	0.3	0	0	0	0
<u>Salpa</u>	0	0.2	0.3	0	0	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0	0	0	0

TABLE 3-2 CONT. 'D

	12-17-64	1-9-65	2-28-65	3-22-65	4-25-65	5-30-65
Copepoda %	51.2	64.2	68.7	41.1	56.3	69.9
Others %	48.8	35.8	31.3	58.9	43.7	30.1
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	0.1	0.1	0.1	0	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0	0.6	2.0	7.9	0.1	0.3
<u>Conchoecia</u>	0	0	0	0	0	0
Mysidacea	0	0	0.1	0.1	0	0.1
Amphipoda	0.1	0	0.2	0.8	0.4	0.2
<u>Lucifer</u>	0	0	0	0.1	0	0.1
Other crustaceans	0	0	0	0	0	0.1
Barnacle nauplii	0	0	0.5	0	0	0
Barnacle cypris	0	0	0.1	0	1.2	0
Other nauplii	0.4	0.1	0.3	0.1	0	0.1
Decapod zoea	0	0	0	0.5	0	0
Decapod megalopa	0	0	0	0	0	0.1
Decapod larvae	0	0.1	0	0.3	0	0
Stomatopod larvae	0	0	0	0.1	0	0.1
Other crustacean larvae	0	0	0	0	1.8	0
Medusae	3.5	0.8	3.9	5.4	0.2	0.5
Polychaeta	0.3	0.5	1.2	0.3	0.5	0

TABLE 3-2 CONT.'D

Gastropod larvae	1.0	1.1	1.8	8.7	4.3	22.5
Heteropoda	0	0	0	0	0	0
Pteropoda	0.1	0	0	0.1	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	40.5	29.4	11.5	24.0	11.2	1.7
Chaetognatha	2.5	0.6	1.7	5.2	13.5	3.6
Larvacea	0.5	2.5	8.1	4.3	10.6	0.8
<u>Doliolum</u>	0	0	0.1	0	0	0
<u>Salpa</u>	0	0	0	1.1	0	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0	0	0	0

TABLE 3-2 CONT. 'D

	6-13-65	8-13-65	12-11-65
Copepoda %	55.8	63.8	73.7
Others %	44.2	36.2	26.3
Cladocera			
<u>Evadne</u>	0	0	0
<u>Penilia</u>	0	2.9	0.1
<u>Podon</u>	0.5	0.2	0
Ostracoda			
<u>Euconchoecia</u>	0	0.5	0
<u>Conchoecia</u>	0	0	0
Mysidacea	0	0	0
Amphipoda	0.6	1.2	0.2
<u>Lucifer</u>	0.2	0.1	0
Other crustaceans	0	0	0
Barnacle nauplii	0.1	0.1	0
Barnacle cypris	0.6	0	0
Other nauplii	5.5	0.3	6.3
Decapod zoea	0.2	0.7	0.1
Decapod megalopa	0.2	0	0
Decapod larvae	0.5	0.6	0.7
Stomatopod larvae	0.4	0	0
Other crustacean larvae	2.4	0.4	0.2
Medusae	1.2	1.8	4.5
Polychaeta	0.1	0.2	0.4

TABLE 3-2 CONT.'D

Gastropod larvae	3.1	2.3	0.4
Heteropoda	0	0.2	0
Pteropoda	1.8	0.7	0
Cephalopoda	0	0	0
Bivalve larvae	1.6	1.7	1.9
Chaetognatha	20.3	5.4	9.4
Larvacea	4.9	16.8	1.9
<u>Doliolum</u>	0	0	0.1
<u>Salpa</u>	0	0	0
Echinoderm larvae	0	0.1	0
Others	0	0	0

TABLE 3-3
 PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W62

	3-9-63	4-4-63	6-27-63	7-15-63	8-29-63	10-4-63
Copepoda %	47.5	61.4	72.4	59.3	49.7	51.2
Others %	52.5	38.6	27.6	40.7	50.3	48.8
Cladocera						
<u>Evadne</u>	0	0	0.8	0	0.1	0
<u>Penilia</u>	0	0	1.0	2.7	7.3	0.1
<u>Podon</u>	0	0	1.5	0.3	7.3	0
Ostracoda						
<u>Euconchoecia</u>	21.1	19.5	7.8	0	0	1.2
<u>Conchoecia</u>	0	0.4	0	0	0	0
Mysidacea	0	0.1	0.1	0.1	0	0.2
Amphipoda	1.3	3.4	1.3	0.3	0	0
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.1	0.1	2.5	0.2	0.6
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	1.1	1.6	0.6	0	0	0
Other nauplii	0.3	0.3	0.3	0.5	0.5	0.7
Decapod zoea	0.2	0.3	0.3	0.3	0.2	0.8
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0	0.1	0.1	0.2	0	1.0
Stomatopod larvae	0	0.1	0.1	0	0.1	0
Other crustacean larvae	0	1.0	0.3	2.2	0.2	1.3
Medusae	2.2	2.5	1.6	0.5	0.8	1.6

TABLE 3-3 CONT.'D

Polychaeta	0.3	0.1	1.4	0.1	0.3	0.7
Gastropod larvae	0.1	0.6	1.0	2.3	0.3	20.9
Heteropoda	0	0	0.1	0	0	0
Pteropoda	0	0	0.8	15.7	0.6	0.3
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	0.2	1.5	0.3	8.9	2.5	3.0
Chaetognatha	2.5	4.1	2.1	2.3	1.4	3.4
Larvacea	21.6	2.4	5.4	1.6	15.8	12.9
<u>Doliolum</u>	1.2	0.3	0.1	0	12.7	0
<u>Salpa</u>	0	0	0.2	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0.3	0	0	0	0.1	0
Others	0	0	0	0	0	0

TABLE 3-3 CONT. 'D

	11-3-63	12-2-63	12-21-63	1-29-64	3-19-64	4-16-64
Copepoda %	65.6	54.3	37.2	60.1	62.6	62.6
Others %	34.4	45.7	62.8	39.9	37.4	37.4
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0.3	0	0	0	0	0.2
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	1.0	18.3	39.7	5.1	8.6	6.6
<u>Conchoecia</u>	3.3	0	0	0.8	0.2	0
Mysidacea	0.2	0.1	0	0	0.2	0.1
Amphipoda	0.2	0.4	1.0	0.1	3.3	1.7
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.3	0.2	0.1	0	0	0.1
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	0	0	0	0.1	0.3	0.1
Other nauplii	0.2	0.9	2.0	1.1	0.9	0.1
Decapod zoea	0.6	1.3	0.3	0	0.1	0.2
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.2	0.3	0.1	0	0	0.1
Stomatopod larvae	0	0	0	0	0	0.1
Other crustacean larvae	1.2	1.4	0.5	0.9	0	0.3
Medusae	3.4	3.3	2.7	7.8	0.7	0.9

TABLE 3-3 CONT. 'D

Polychaeta	0.4	2.1	0.2	1.3	0.9	0
Gastropod larvae	6.1	2.0	1.3	0.9	0.6	0.4
Heteropoda	0.1	0.1	0	0	0	0.1
Pteropoda	2.5	0.8	0.2	0	0	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	3.9	3.1	6.3	12.0	7.6	12.8
Chaetognatha	6.5	8.8	5.2	1.1	2.7	5.2
Larvacea	3.4	2.7	0.9	7.9	7.0	7.7
<u>Doliolum</u>	0.6	0.1	0	0.6	3.9	0.8
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0	2.0	0.2	0.2	0
Others	0	0	0	0	0	0

TABLE 3-3 CONT. 'D

	5-24-64	6-26-64	7-17-64	8-31-64	9-26-64	10-29-64
Copepoda %	62.1	38.2	54.0	56.6	72.3	46.5
Others %	37.9	61.8	46.0	43.4	27.7	53.5
Cladocera						
<u>Evadne</u>	0.2	0	0.8	0.9	0	0
<u>Penilia</u>	0.4	0	4.1	7.9	0.5	0.1
<u>Podon</u>	3.5	0.1	0.7	4.1	0	0
Ostracoda						
<u>Euconchoecia</u>	14.8	0	5.4	0.4	0	4.8
<u>Conchoecia</u>	0	0	0.2	0	0	0
Mysidacea	0	0	0	0	0	0
Amphipoda	0.7	0.1	0.3	0.5	0.1	0.1
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.2	0	0	0.4	0.1
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	0.1	0	0.1	0	0
Barnacle cypris	0.1	0	0.2	0	0	0
Other nauplii	0	1.3	0.1	0.8	0.8	2.6
Decapod zoea	0.2	0.2	0.2	0.1	0	1.7
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0	0.3	0.1	0.1	0.5	0.2
Stomatopod larvae	0	0	0	0	0.1	0
Other crustacean larvae	0	1.5	0.3	0.2	1.6	12.5
Medusae	0.9	0.2	0.6	2.7	0.7	3.0

TABLE 3-3 CONT.'D

Polychaeta	0.1	0.9	1.1	0.1	1.2	0.9
Gastropod larvae	2.7	0.6	4.2	3.1	1.8	1.4
Heteropoda	0.3	0	0	0	0	0
Pteropoda	0.3	0	1.1	1.1	2.1	0.3
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	3.5	3.7	0.2	0.5	1.8	1.2
Chaetognatha	4.1	1.5	1.3	2.1	6.5	3.0
Larvacea	6.0	51.3	24.7	17.7	9.2	20.7
<u>Doliolum</u>	0	0	0.1	0.9	0	0
<u>Salpa</u>	0	0	0.1	0	0	0.7
Other urochordates	0	0	0.1	0	0	0
Echinoderm larvae	0.2	0	0.1	0.1	0.4	0
Others	0	0	0	0	0	0

TABLE 3-3 CONT. 'D

	11-24-64	12-17-64	1-8-65	2-28-65	3-22-65	4-24-65
Copepoda %	48.5	57.5	50.2	53.3	41.7	52.6
Others %	51.5	42.5	49.8	46.7	58.3	47.4
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0.2	0.8	0	0	0.3	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	25.8	14.9	41.6	8.4	18.6	2.7
<u>Conchoecia</u>	0	0.1	0	4.0	0	0
Mysidacea	0	0.1	0.1	0	0	0
Amphipoda	2.3	0.9	0.5	0.7	0.9	0.3
Euphausiacea	0	0	0	0	0.2	0
<u>Lucifer</u>	0.3	0.1	0.1	0	0.2	0
Other crustaceans	0	0	0.1	0.1	0	0
Barnacle nauplii	0	0	0	0.1	0	0
Barnacle cypris	0	0	0	0	0	2.0
Other nauplii	0.3	1.5	0.4	1.0	0.5	0.8
Decapod zoea	4.8	2.1	0.4	0.1	0.2	0
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.7	0.1	0.1	0.1	0.2	0.2
Stomatopod larvae	0.1	0	0	0	0.1	0
Other crustacean larvae	0.4	0.3	0.1	0.1	1.3	4.9
Medusae	1.2	3.2	0.8	2.4	2.0	1.0

TABLE 3-3 CONT.'D

Polychaeta	0.5	0.9	0.4	0.4	0.5	0.1
Gastropod larvae	1.6	1.6	0.4	1.4	1.3	4.3
Heteropoda	0	0	0	0	0.1	0
Pteropoda	2.0	0.7	0	0.1	0.1	0
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	1.5	1.4	0.6	2.4	5.9	6.8
Chaetognatha	7.9	5.9	3.4	2.1	3.8	13.8
Larvacea	1.5	6.8	0.4	22.4	14.2	9.5
<u>Doliolum</u>	0.2	0.9	0.3	0.7	8.1	0.8
<u>Salpa</u>	0	0	0	0	0	0
Other urochordates	0	0	0	0	0	0
Echinoderm larvae	0	0.1	0.1	0	0	0.2
Others	0	0	0	0	0	0

TABLE 3-3 CONT.'D

	5-30-65	6-13-65	8-13-65
Copepoda %	32.8	60.6	67.5
Others %	67.2	39.4	32.5
Cladocera			
<u>Evadne</u>	0	0	0
<u>Penilia</u>	0	0	0
<u>Podon</u>	0	1.3	1.1
Ostracoda			
<u>Euconchoecia</u>	15.9	1.2	0
<u>Conchoecia</u>	0	0	0
Mysidacea	0	0	0
Amphipoda	3.0	1.2	0.7
Euphausiacea	0	0	0
<u>Lucifer</u>	0.1	0.2	0
Other crustaceans	0	0	0
Barnacle nauplii	0	0	0
Barnacle cypris	0.7	0.4	0
Other nauplii	0.7	1.5	0.2
Decapod zoea	0.1	0.2	0.5
Decapod megalopa	0.2	0	0.1
Decapod larvae	0.2	0.2	0.3
Stomatopod larvae	0.1	0.1	0.2
Other crustacean larvae	4.3	2.5	0
Medusae	0.1	0.8	3.6

TABLE 3-3 CONT. 'D

Polychaeta	0.1	0.4	0.2
Gastropod larvae	2.4	4.3	4.6
Heteropoda	0	0.1	0.1
Pteropoda	0	3.4	2.8
Cephalopoda	0	0	0
Bivalve larvae	4.1	1.5	1.0
Chaetognatha	6.1	7.1	6.6
Larvacea	28.8	10.8	9.9
<u>Doliolum</u>	0	1.5	0.4
<u>Salpa</u>	0	0.5	0.1
Other urochordates	0	0	0
Echinoderm larvae	0	0	0
Others	0	0	0

TABLE 3-4

PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W13

	4-6-63	5-2-63	5-22-63	6-27-63	7-16-63	8-28-64
Copepoda %	73.1	36.3	83.6	58.9	66.3	31.6
Others %	26.9	63.7	16.4	41.1	33.7	68.4
Foraminifera	0.3	0	0.2	0.5	0.1	0.3
Radiolaria	0	0	0	0	0	0
Cladocera						
<u>Evadne</u>	0	0	0	+	0	0
<u>Penilia</u>	2.1	6.4	0.2	0.2	3.2	2.0
<u>Podon</u>	0	0	0	0.2	0	0
Ostracoda						
<u>Euconchoecia</u>	0.1	0	0.2	0.1	0.9	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0	0	0.2	0.2	0
Amphipoda	0.1	0.1	0.1	0.2	0.9	0.1
Euphausiacea	0	0	0	+	0	0
<u>Lucifer</u>	0	0	0.2	0.8	2.2	0.6
Other crustaceans	0	0	0	0	0.2	0
Barnacle nauplii	1.5	0	+	0	+	0
Barnacle cypris	0.7	0.1	0.2	0	+	0
Other nauplii	3.1	28.8	0.3	5.4	0.8	1.8
Decapod zoea	0	0	1.2	0.6	0.2	0.3
Decapod megalopa	0	0	0	0.1	0	0
Decapod larvae	0.1	0.1	1.1	3.6	5.0	1.9
Stomatopod larvae	0	0	0	0.1	0.1	0

TABLE 3-4 CONT.'D

Other crustacean larvae	0.2	0	0	+	0.2	0
Medusae	3.1	6.6	1.7	2.1	2.6	0.8
Polychaeta	1.0	1.2	0.3	0.1	1.0	0
Gastropod larvae	0.1	1.1	2.7	1.3	1.1	4.8
Heteropoda	0	0	0	+	0.2	0
Pteropoda	0	0.1	0.2	0.1	0.1	0.5
Bivalve larvae	9.0	10.8	0.8	21.9	3.5	49.1
Chaetognatha	0.9	0.4	1.2	1.0	9.1	0.3
Larvacea	2.5	7.7	2.0	2.4	1.7	5.4
<u>Doliolum</u>	1.9	0	0	+	0.1	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	0.3	3.9	0	0	0.5
Others	0.1	0.1	0	0.1	0	0

* (+) = less than 0.05%

TABLE 3-4 CONT. 'D

	10-5-63	11-4-63	12-1-63	1-30-64	2-19-64	3-21-64
Copepoda %	58.0	34.9	68.6	84.1	32.2	46.3
Others %	42.0	65.1	31.4	15.9	67.8	53.7
Foraminifera	0.3	0	0	0.1	0.1	0
Radiolaria	0.2	0	0	0.1	0	0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	+	0	0	0	0	0.1
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.2	0.5	1.1	1.0	0.7	0
Other ostracods	0	0	0	0	0.3	0
Mysidacea	0	0.1	0.1	0	0	0
Amphipoda	0	0.2	0.1	0	0.1	0.1
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.2	0.9	0	0	0	0
Other crustaceans	0	0.1	0	0	0	0
Barnacle nauplii	0	0	0	3.9	0.3	2.3
Barnacle cypris	0	0	0	0.6	5.1	3.2
Other nauplii	7.0	1.4	0.5	1.8	0	0
Decapod zoea	0	0.8	0.1	0	0	0
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.5	6.3	0.3	0	0	0
Stomatopod larvae	0	0	0	0	0	0

TABLE 3-4 CONT. 'D

Other crustacean larvae	13.6	0	0	0	0	0.1
Medusae	0.6	0.8	6.4	1.5	23.7	42.2
Polychaeta	1.8	0.1	0.1	0.9	3.3	2.7
Gastropod larvae	0.2	1.8	0.6	0.2	1.0	0.1
Heteropoda	0	0	0	0	0	0
Pteropoda	0.1	0.1	0	0	0	0
Bivalve larvae	2.8	37.4	5.7	2.9	2.5	1.8
Chaetognatha	1.2	13.9	15.6	2.7	2.0	1.0
Larvacea	12.6	0.7	0.8	0	27.9	0.4
<u>Doliolum</u>	0	0	0	0	0.3	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0.8	0	0	0	0.3	0
Others	+	0	0.1	0.1	0.3	0

TABLE 3-4 CONT. 'D

	4-18-64	5-25-64	6-27-64	7-18-64	9-1-64	10-31-64
Copepoda %	80.0	87.1	41.3	41.3	49.6	90.9
Others %	20.0	12.9	58.7	58.7	50.4	9.1
Foraminifera	0	0	1.8	0	0.1	+
Radiolaria	0	0	0	0	0	0
Cladocera						
<u>Evadne</u>	0	0	1.1	0	0	0
<u>Penilia</u>	0	0	6.6	0.4	0.4	0
<u>Podon</u>	0.1	0.2	1.3	0.2	0.1	0
Ostracoda						
<u>Euconchoecia</u>	0	0	6.5	1.0	0.1	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0	0	0	0	0
Amphipoda	0.1	0	0.4	0.2	0.2	+
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	1.2	0.1	2.1	2.1	0.3
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	3.0	0	0	0.1	0	0
Barnacle cypris	1.0	1.0	0	0	0	0
Other nauplii	2.4	0.2	0	2.2	2.5	1.3
Decapod zoea	0.2	0	0.3	0.4	0.3	0.1
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.1	0.5	0.2	12.3	5.9	0.6
Stomatopod larvae	0	0	0	0	0	0

TABLE 3-4 CONT. 'D

Other crustacean larvae	0	0.1	0	0	0.1	0
Medusae	0.7	0.1	0.6	3.3	9.5	0.5
Polychaeta	0	0.4	0.1	0.1	0.5	0.1
Gastropod larvae	0.3	0.3	1.5	1.7	0.3	0.3
Heteropoda	0	0	0	0	0	+
Pteropoda	0	0	0.9	4.5	0.7	0.1
Bivalve larvae	8.3	6.2	0.9	15.8	12.2	2.7
Chaetognatha	2.3	2.4	2.8	11.3	3.8	1.4
Larvacea	0.5	0.2	32.7	3.0	11.5	1.5
<u>Doliolum</u>	0.9	0	0.6	0	0	0
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	0.1	0	0.1	0.2	0
Others	0.2	0	0	0	0.1	0

TABLE 3-4 CONT.'D

	12-18-64	3-1-65	4-25-65	5-29-65	6-14-65	8-14-65
Copepoda %	74.4	83.1	31.1	79.1	39.9	79.9
Others %	25.6	16.9	68.9	20.9	60.1	20.1
Foraminifera	0.3	0	0	0	0	0
Radiolaria	0	0	0	0	0	0
Cladocera						
<u>Evadne</u>	0	0	0.1	0	0	0
<u>Penilia</u>	0	0	0	0	0	0
<u>Podon</u>	0	0	0.6	0	0.3	0.1
Ostracoda						
<u>Euconchoecia</u>	0	0.1	0	0	0	0.1
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0.7	0	0	0	0
Amphipoda	0	0	0.1	0.3	0.2	0
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0	0.6	1.0	0	1.0
Other crustaceans	0	0.1	0	0	0	0
Barnacle nauplii	0.5	0	2.3	0.5	0.5	0
Barnacle cypris	0.1	4.7	0	0.2	0.5	0
Other nauplii	0.7	0.2	1.8	2.1	10.8	2.1
Decapod zoea	0.1	0.1	0.8	0.6	0.8	0.5
Decapod megalopa	0	0	0	0	0	0.1
Decapod larvae	0.1	0	5.2	0.2	20.0	5.0
Stomatopod larvae	0	0	0	0.1	0	0

TABLE 3-4 CONT. 'D

Other crustacean larvae	0	0	0	4.8	0	0
Medusae	0.1	5.0	0.3	0.3	0.4	0.2
Polychaeta	0.4	1.3	0.1	0	0.3	0.1
Gastropod larvae	0.4	0.7	1.0	1.4	0.8	0.7
Heteropoda	0	0	0.1	0	0	0
Pteropoda	0.1	0	0	0	0	0.2
Bivalve larvae	20.4	0.4	40.3	5.6	13.2	0.2
Chaetognatha	2.4	2.3	2.1	0.5	6.3	1.9
Larvacea	0.3	1.1	11.5	3.1	5.8	8.1
<u>Doliolum</u>	0	0	1.6	0	0.2	0
<u>Salpa</u>	0	0	0.6	0	0.1	0
Echinoderm larvae	0	0	0	0	0	0
Others	0	0	0	0	0	0

TABLE 3-4 CONT.'D

	9-12-65	12-12-65
Copepoda %	79.0	83.7
Others %	21.0	16.3
Foraminifera	0	0.1
Radiolaria	0	0
Cladocera		
<u>Evadne</u>	0	0
<u>Penilia</u>	0	0.1
<u>Podon</u>	0.1	0
Ostracoda		
<u>Euconchoecia</u>	0	0
Other ostracods	0	0
Mysidacea	0	0
Amphipoda	0.1	0.1
Euphausiacea	0	0
<u>Lucifer</u>	1.1	0
Other crustaceans	0	0
Barnacle nauplii	0	0
Barnacle cypris	0.1	0
Other nauplii	1.8	3.0
Decapod zoea	1.0	0.2
Decapod megalopa	+	0
Decapod larvae	8.1	0.1
Stomatopod larvae	+	0

TABLE 3-4 CONT.'D

Other crustacean larvae	0.2	0
Medusae	0.7	0
Polychaeta	+	0
Gastropod larvae	1.0	1.1
Heteropoda	0	0
Pteropoda	0	0
Bivalve larvae	4.1	0.6
Chaetognatha	1.6	9.3
Larvacea	1.1	1.9
<u>Doliolum</u>	0	0
<u>Salpa</u>	0	0
Echinoderm larvae	0	0
Others	0	0

TABLE 3-5

PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W14

	4-4-63	5-2-63	5-21-63	6-26-63	7-16-63	8-30-63
Copepoda %	73.8	56.9	36.2	74.7	62.3	41.8
Others %	26.2	43.1	63.8	25.3	37.7	58.2
Foraminifera	0.9	1.6	0.6	2.3	0.6	1.0
Radiolaria	0	0	8.9	0.1	0.3	0.1
Cladocera						
<u>Evadne</u>	0	0	0.1	4.5	0.3	0
<u>Penilia</u>	1.0	20.7	2.5	0.2	4.3	0.5
<u>Podon</u>	0.1	0.3	0	2.0	1.5	0.2
Ostracoda						
<u>Euconchoecia</u>	1.3	0.2	21.5	0.7	3.4	0.2
Mysidacea	0.1	0.4	0	0	0	0.1
Amphipoda	0.2	0.3	1.3	1.4	0.5	0.2
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.1	0	0.5	0.1	0.2	0.3
Other crustaceans	0	0	0.3	0.1	0	0
Barnacle nauplii	0	0	0	0	0.1	0
Barnacle cypris	3.4	0.1	1.8	0	0.2	0.1
Other nauplii	0.9	0.5	0.1	0.7	0.1	0
Decapod zoea	0.1	0.5	0.7	1.0	1.2	1.0
Decapod megalopa	0	0	0	0	0	0.1
Decapod larvae	0.1	1.0	0.4	0.2	0.3	0.5
Stomatopod larvae	0	0.2	0	0	0.3	0.1
Other crustacean larvae	0.1	0.1	0	0.2	0	0
Medusae	5.8	7.1	2.6	2.4	3.1	3.1
Polychaeta	1.0	0.4	0.6	0.1	1.7	1.7

TABLE 3-5 CONT.'D

Gastropod larvae	1.1	2.5	4.3	3.1	1.5	8.5
Heteropoda	0	0	0.1	0	0.3	0
Pteropoda	0.1	+	0.4	0.7	0.5	15.8
Bivalve larvae	0.5	2.3	7.3	0.6	0.4	6.5
Chaetognatha	1.9	2.3	9.0	2.9	6.1	5.8
Larvacea	4.0	1.1	0.5	1.7	10.2	9.3
<u>Doliolum</u>	3.2	0.5	0.2	0.2	0.8	2.9
<u>Salpa</u>	0	0.2	0	0	0	0
Other Urochordates	0	0.3	0	0.2	0	0
Echinoderm larvae	0.3	0.2	0.1	0.1	0	0.3
Others	0.2	0.2	0	0	0.2	0.2

* (+) = less than 0.05%

TABLE 3-5 CONT. 'D

	10-2-63	11-1-63	11-30-63	1-28-64	2-19-64	3-21-64
Copepoda %	64.3	44.4	34.3	40.9	42.3	68.9
Others %	35.7	55.6	65.7	59.1	57.7	31.1
Foraminifera	0.3	0.4	0.2	2.1	1.6	1.0
Radiolaria	0	0.2	0.1	0.5	0.2	0.2
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	0.7	0.4	0.2	0.1	0.2
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.2	5.6	20.5	21.7	13.1	1.4
Mysidacea	0	0.2	0	0	0	+
Amphipoda	0.1	0.4	0.3	0.9	0.4	1.0
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0.1	0	0.1	0	+	0
Other crustaceans	0.1	0	0	0	0	0
Barnacle nauplii	0	0.1	0	0.3	0.3	0.2
Barnacle cypris	0	0.1	0	0	0.1	2.4
Other nauplii	0.1	1.2	0.8	1.3	3.0	0.4
Decapod zoea	0.2	4.1	0.3	0.1	0	0
Decapod megalopa	0.1	0	0	0	0	+
Decapod larvae	1.9	0.7	0.7	0	0.1	0
Stomatopod larvae	0	0	0.1	0	0	0
Other crustacean larvae	0.2	0.6	0.4	0	0	0.1
Medusae	2.9	2.8	3.7	7.0	5.4	7.2
Polychaeta	3.5	1.8	2.3	0.7	0.1	1.6
Gastropod larvae	4.3	0.7	2.4	0.1	0.1	0.9

TABLE 3-5 CONT.'D

Heteropoda	0	0.1	0	0	0	0
Pteropoda	0	1.6	5.2	0	0	+
Bivalve larvae	1.1	2.7	17.6	1.5	0.8	5.3
Chaetognatha	4.5	7.6	5.8	4.3	5.3	4.2
Larvacea	16.0	5.9	3.5	15.1	17.9	4.0
<u>Doliolum</u>	0	18.1	0.7	3.1	9.4	0.9
<u>Salpa</u>	0	0	0	0	0	0
Other Urochordates	0	0	0	0	0	0
Echinoderm larvae	0.1	0	0.2	0.1	0	0
Others	0	0.1	0.5	0.1	+	0

TABLE 3-5 CONT. 'D

	4-16-64	5-23-64	6-25-64	7-17-64	8-30-64	9-27-64
Copepoda %	67.5	38.1	44.5	46.0	54.9	66.9
Others %	32.5	61.9	55.5	54.0	45.1	33.1
Foraminifera	0.1	0.4	3.1	1.0	5.3	0
Radiolaria	0	0.1	0.9	0	0.3	0
Cladocera						
<u>Evadne</u>	0.2	0.8	1.1	1.0	+	0
<u>Penilia</u>	0.2	0.4	0.8	1.8	1.9	1.5
<u>Podon</u>	0.9	24.5	4.3	0.4	0.1	0.1
Ostracoda						
<u>Euconchoecia</u>	0.2	0.1	9.8	16.1	1.7	0
Mysidacea	0	0	0.1	0	0	+
Amphipoda	0	0.1	1.4	0.5	1.0	0.2
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	0.2	0.4	0	0.5	0.6
Other crustaceans	0	0	0.1	0	0	+
Barnacle nauplii	0	0.2	0	0.1	0	0
Barnacle cypris	+	0.3	0.1	0.1	0	0
Other nauplii	0.1	1.4	0.6	0.2	0.4	1.7
Decapod zoea	0	0.6	0.4	0.1	0.6	0.1
Decapod megalopa	0	+	0	0	0	0
Decapod larvae	+	2.0	0.3	0.4	0.5	2.0
Stomatopod larvae	0	0.1	0.1	0.1	+	0
Other crustacean larvae	0	0	0.1	0.1	0.2	0.1
Medusae	3.1	1.5	0.7	0.3	0.9	1.0
Polychaeta	1.5	0.2	0.3	0.2	0.5	0.2
Gastropod larvae	2.6	0.9	2.3	12.0	5.7	8.1

TABLE 3-5 CONT.'D

Heteropoda	0	0.4	0.1	0	0.1	0
Pteropoda	0.1	0.1	1.1	1.0	2.3	0.1
Bivalve larvae	7.3	7.4	2.1	13.6	9.4	4.9
Chaetognatha	1.1	3.2	9.7	2.2	3.1	9.2
Larvacea	10.8	4.1	15.5	2.8	9.7	2.9
<u>Doliolum</u>	3.1	12.4	0.3	0.1	0.2	0
<u>Salpa</u>	0	0.1	0	0.3	0.7	0
Other Urochordates	+	0	0	0	0	0
Echinoderm larvae	0.5	0.2	0.1	0	0	0.1
Others	0.5	+	0	0	0	0.2

TABLE 3-5 CONT. 'D

	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65	3-22-65
Copepoda %	51.0	42.7	54.8	48.2	45.4	67.4
Others %	49.0	57.3	45.2	51.8	54.6	32.6
Foraminifera	1.0	0	0.1	0.4	1.3	0
Radiolaria	0.1	0.4	0.1	0.2	0	0
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0.2	1.1	0.1	0.6	0.1	0
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	7.9	10.7	23.4	1.3	9.1	6.0
Mysidacea	0	0.1	+	0	0	0.1
Amphipoda	0.6	0.9	0.2	0.1	0.7	0.4
Euphausiacea	+	0	0	0	0	0
<u>Lucifer</u>	0.8	0.2	0.3	0	0	0
Other crustaceans	0	0.1	0	0	0	0
Barnacle nauplii	0	0	0	0	0.1	0
Barnacle cypris	0	0	0	0	0.4	0
Other nauplii	0.2	0.7	2.8	0.4	3.5	0.1
Decapod zoea	1.7	1.1	2.2	0.1	0.2	0.1
Decapod megalopa	0	0	0	0	0.1	0.1
Decapod larvae	1.7	0.5	0.2	0	0.1	0
Stomatopod larvae	+	0	0	0	0	0.1
Other crustacean larvae	0	0.5	+	0	0.1	0
Medusae	2.9	4.6	2.0	3.2	0.7	1.6
Polychaeta	0.3	1.1	0.7	3.4	1.7	0.9
Gastropod larvae	8.2	2.8	1.4	0.7	7.0	2.0

TABLE 3-5 CONT. 'D

Heteropoda	0	0	+	0	0	0
Pteropoda	0.2	0.3	0.4	0	0.8	0
Bivalve larvae	9.8	6.4	4.7	31.4	17.5	10.9
Chaetognatha	9.1	21.7	4.0	3.5	3.8	6.3
Larvacea	2.3	2.3	2.3	5.0	7.4	4.2
<u>Doliolum</u>	0.9	1.3	0.1	0.2	0.1	0
<u>Salpa</u>	0	0	0	0	0	0
Other Urochordates	0	0	0	0	0	0
Echinoderm larvae	1.0	0	0.1	1.5	0	0
Others	0	0.3	0	0	0	0.1

TABLE 3-5 CONT.'D

	4-23-65	5-29-65	6-12-65	9-10-65
Copepoda %	59.3	51.6	60.2	52.9
Others %	40.7	48.4	39.8	47.1
Foraminifera	0.9	0	0	1.0
Radiolaria	0	0	0	0.2
Cladocera				
<u>Evadne</u>	0.4	0	0	0
<u>Penilia</u>	0	0	0	3,4
<u>Podon</u>	0.4	0.1	0.2	1.1
Ostracoda				
<u>Euconchoecia</u>	2.9	0.1	1.0	0.3
Mysidacea	0.1	0	0	0
Amphipoda	0.5	0.9	1.9	2.2
Euphausiacea	0	+	0	0
<u>Lucifer</u>	0	0.2	0	0.4
Other crustaceans	0	+	0	0
Barnacle nauplii	0	+	0	0
Barnacle cypris	3.4	1.9	1.1	0.2
Other nauplii	0.7	12.7	2.8	0.3
Decapod zoea	0.3	1.0	0.4	0
Decapod megalopa	0	0.1	+	0
Decapod larvae	0.2	9.2	10.2	1.6
Stomatopod larvae	0.1	0.1	+	0
Other crustacean larvae	0.1	+	0	0.2
Medusae	2.4	1.8	1.4	4.5
Polychaeta	0.3	0	0.3	2.4
Gastropod larvae	2.0	2.6	2.5	16.2

TABLE 3-5 CONT.'D

Heteropoda	0	0	0	0
Pteropoda	0	+	0	1.0
Bivalve larvae	3.7	3.0	3.6	3.5
Chaetognatha	3.3	13.0	8.0	3.0
Larvacea	16.7	0.6	3.1	5.3
<u>Doliolum</u>	2.3	0.8	3.1	0.3
<u>Salpa</u>	0	0	0	0
Other Urochordates	0	0	0	0
Echinoderm larvae	0	0	0.1	0
Others	0	0	0	0

TABLE 3-6

PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W15

	3-8-63	4-3-63	5-20-63	6-26-63	7-16-63	8-30-63
Copepoda %	77.2	58.1	55.8	60.0	50.5	52.1
Others %	22.8	41.9	44.2	40.0	49.5	47.9
Foraminifera	0	2.2	0.6	4.4	15.8	1.9
Radiolaria	0	0.4	3.1	1.2	2.0	1.6
Cladocera						
<u>Evadne</u>	0	0.1	0.6	3.0	0	0
<u>Penilia</u>	0	0.1	6.5	0.1	0.1	1.4
<u>Podon</u>	0	+	3.8	5.0	1.3	0.7
Ostracoda						
<u>Euconchoecia</u>	9.6	21.5	14.1	7.2	0.2	0.2
<u>Conchoecia</u>	+	0	+	0	0	+
Other ostracods	0	0	0	0	0	0
Mysidacea	0	0.1	+	0	0	0
Amphipoda	0.2	1.8	1.6	1.0	+	+
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	+	+	+	0.2	0.1	0
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0.1	0	0	0	0	0
Barnacle cypris	0.4	1.4	0.4	0	0	0
Other nauplii	0.3	+	0.3	+	0.1	0
Decapod zoea	0	+	0.2	0.4	0.1	0.2
Decapod megalopa	0	+	0	+	0	+
Decapod larvae	0.1	0.1	0.2	0.4	0.2	0.1
Stomatopod larvae	+	0	0	0.1	0.4	+
Other crustacean larvae	0	0	0	0	0	0.1

TABLE 3-6 CONT. 'D

Medusae	2.2	0.8	0.8	1.5	3.4	2.4
Polychaeta	0.1	0.1	0.2	0.2	0.3	0.3
Gastropod larvae	0.3	6.3	1.9	2.2	2.5	3.0
Heteropoda	0	0	0	+	+	0
Pteropoda	+	0.4	0.9	0.5	0.9	2.1
Cephalopoda	0	0	0	+	0	0
Bivalve larvae	0.1	0.5	1.6	0.6	0.3	0.2
Other mollusca	0	0.2	0	0	+	0
Chaetognatha	2.6	3.5	2.7	6.4	3.2	3.2
Larvacea	3.5	1.7	1.9	3.9	17.2	9.6
<u>Doliolum</u>	2.6	0.3	1.6	1.4	0.8	0.2
<u>Salpa</u>	0	0	0.7	0.2	0	19.9
Echinoderm larvae	+	0	0.2	0	0.2	0.2
Others	0.5	+	0.5	0	0	0.1

* (+) = less than 0.05%

TABLE 3-6 CONT. 'D

	10-2-63	10-31-63	11-30-63	12-19-63	1-28-63	2-19-64
Copepoda %	52.2	44.3	36.6	51.4	54.8	41.2
Others %	48.0	55.7	63.4	48.6	45.2	58.8
Foraminifera	1.2	0.2	1.1	0	0.9	3.5
Radiolaria	0	0	0.6	0	0.2	0.2
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	+	0	0	0.1	0.5	0.4
<u>Podon</u>	0	0	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	11.7	25.7	30.2	36.6	2.7	1.3
<u>Conchoecia</u>	0	0	0	0	+	0
Other ostracods	0	0.1	0	0	0	0
Mysidacea	0	0.3	0	0.1	0.2	0
Amphipoda	0.3	0.4	0.4	0	0.5	0.2
Euphausiacea	0	0	0	0.1	+	0
<u>Lucifer</u>	0	0.1	0.4	0.1	0.1	0
Other crustaceans	0	0	0	0	0	+
Barnacle nauplii	0	0	0	0	0.1	+
Barnacle cypris	+	0	0	0	0	0
Other nauplii	0.3	0.2	0.3	0.8	2.0	3.1
Decapod zoea	7.1	2.2	1.8	0.3	0.1	0
Decapod megalopa	0	0	0.1	0	+	0
Decapod larvae	0.6	0.3	1.3	0.8	0.2	0
Stomatopod larvae	+	0	0.1	0	0	0
Other crustacean larvae	8.1	0.7	0	0.1	+	0.1

TABLE 3-6 CONT.'D

Medusae	0.6	3.0	2.7	0.9	3.1	2.9
Polychaeta	0.1	0.3	0.8	0.3	0.4	0.7
Gastropod larvae	6.4	1.1	3.2	0.7	0.2	0.6
Heteropoda	0	0	0	0	0	0
Pteropoda	0.3	0.6	1.6	0.6	0.1	0.1
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	1.9	1.4	10.0	0.9	1.3	4.5
Other mollusca	0	0	0	0	0	+
Chaetognatha	3.0	4.7	2.7	3.1	4.4	3.6
Larvacea	5.5	12.4	3.1	1.7	24.5	26.6
<u>Doliolum</u>	+	1.9	2.9	1.1	3.4	10.5
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	0.2	0.3	0.4	0.4	0.5
Others	0.6	0	0	0	+	+

TABLE 3-6 CONT.'D

	3-19-64	4-15-64	5-23-64	6-25-64	7-17-64	8-30-64
Copepoda %	54.8	35.4	40.8	29.4	59.0	50.7
Others %	45.2	64.6	59.2	70.6	41.0	49.3
Foraminifera	1.9	1.6	4.2	3.0	2.4	3.0
Radiolaria	0.4	1.5	0.6	+	0.5	0.2
Claodcera						
<u>Evadne</u>	0	0.1	0.7	0.6	0	0
<u>Penilia</u>	0.1	0.2	0.8	3.2	1.5	2.8
<u>Podon</u>	0	0.6	4.0	8.8	2.0	2.8
Ostracoda						
<u>Euconchoecia</u>	10.3	2.2	3.8	14.1	3.6	1.7
<u>Conchoecia</u>	0	0	0	0	0	0
Other ostracods	0	0	0	0	0	0
Mysidacea	0.1	0.1	0.1	0	0	0
Amphipoda	1.1	0.1	0.5	0.6	0.2	0.5
Euphausiacea	0	0	0.1	0	0	0
<u>Lucifer</u>	0	0	0.1	+	0	0.3
Other crustaceans	0	0	0	0	0.1	0
Barnacle nauplii	0	0	0.1	0	0	+
Barnacle cypris	0.4	0.3	0.2	0.3	0.1	+
Other nauplii	2.5	0.3	0.5	0.3	0.2	1.1
Decapod zoea	0	0.2	0.4	0.3	0.1	0.3
Decapod megalopa	0	0	0.1	0	0.1	+
Decapod larvae	0.3	0.1	0.3	0.2	0.1	0.3
Stomatopod larvae	0	0.1	0.2	+	0	+
Other crustacean larvae	0	0	0.1	0	0	0.2

TABLE 3-6 CONT.'D

Medusae	2.0	1.4	2.1	0.4	0.9	2.2
Polychaeta	0.5	0.7	0.4	0.1	0.7	0.8
Gastropod larvae	0.9	2.4	6.2	7.5	1.6	5.3
Heteropoda	0	0	0	0.1	0.3	+
Pteropoda	0.1	0.3	0.9	2.6	1.0	1.9
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	8.9	33.1	2.4	0.8	0.4	3.6
Other mollusca	0	0	0	0	0	0
Chaetognatha	6.9	12.3	6.7	6.5	4.8	6.5
Larvacea	7.4	5.6	19.7	20.6	18.9	15.2
<u>Doliolum</u>	1.1	0.5	3.3	0.2	0.6	0.2
<u>Salpa</u>	0	0.3	0.9	0	0	0.2
Echinoderm larvae	0.1	0.7	0.1	0.1	0.5	+
Others	0.1	0.1	0.1	0.1	0.4	0.1

TABLE 3-6 CONT.'D

	9-27-64	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65
Copepoda %	54.8	63.0	64.2	47.3	41.2	44.4
Others %	45.2	37.0	35.8	52.7	58.8	55.6
Foraminifera	0.1	0.4	0.8	0.4	0.8	3.6
Radiolaria	0	0.6	0.8	0.3	0.4	0.1
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0.3	1.2	0.9	0.1	0.1	0
<u>Podon</u>	0	0	0	0.1	0	0
Ostracoda						
<u>Euconchoecia</u>	14.8	11.1	7.4	21.7	22.4	30.9
<u>Conchoecia</u>	0	0	0	0	0.3	0
Other ostracods	0	0	0	0	0	0
Mysidacea	+	0	0.1	0	0	0
Amphipoda	0.6	0.1	0.6	0.1	0.2	0.6
Euphausiacea	0	0	0	0	0	0.1
<u>Lucifer</u>	0	0.1	0.4	0.4	0.1	0.1
Other crustaceans	0.9	0	0	0.1	0.1	0
Barnacle nauplii	0	0	0	0	0	0.1
Barnacle cypris	0	0	0	0	0	0.3
Other nauplii	0.3	0.1	0.2	1.2	0.5	0.3
Decapod zoea	0.3	2.7	4.5	3.8	0.3	0.1
Decapod megalopa	0.1	0	0	0	0	0.1
Decapod larvae	0	0.2	1.0	0.1	0.7	0.3
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	0	0.3	0.1	0.2	0	0

TABLE 3-6 CONT.'D

Medusae	1.9	1.9	2.7	0.6	4.8	0.4
Polychaeta	2.5	0.4	0.6	0.4	0.7	0.3
Gastropod larvae	14.1	1.2	0.5	5.1	1.7	2.4
Heteropoda	0	0.1	0	0	0	0
Pteropoda	0.7	0.1	+	0.8	0.4	1.4
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	1.9	0.3	0.9	3.5	2.6	4.5
Other mollusca	0	0	0	0	0	0
Chaetognatha	3.9	4.7	6.7	12.4	10.3	4.7
Larvacea	2.5	10.1	6.1	1.3	9.1	5.2
<u>Doliolum</u>	0.1	1.4	1.0	0	2.1	0.6
<u>Salpa</u>	0	0	0	0	0	0
Echinoderm larvae	0	0.2	0.4	0.1	1.4	0
Others	0.4	0	+	0.1	0	0.1

TABLE 3-6 CONT. 'D

	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65	9-11-65	12-10-65
Copepoda %	58.3	37.9	64.4	44.6	55.1	54.3	46.4
Others %	41.7	62.1	35.6	55.4	44.9	45.7	53.6
Foraminifera	2.2	2.0	3.1	1.2	2.7	2.7	0.9
Radiolaria	0.1	0.1	0	0.1	+	0.1	0.3
Cladocera							
<u>Evadne</u>	0	0.1	0	0	0	0	0
<u>Penilia</u>	0	+	0	0	0.9	+	0
<u>Podon</u>	0	0.1	2.1	12.9	0.1	0.3	0.1
Ostracoda							
<u>Euconchoecia</u>	10.3	36.3	4.1	0.4	6.8	2.9	29.5
<u>Conchoecia</u>	0	+	0	0	0	0	0
Other ostracods	0	0	0	0	0	0	0
Mysidacea	+	+	+	0	0	0.1	0.2
Amphipoda	0.6	2.2	0.8	1.3	1.2	0.6	0.2
Euphausiacea	0.1	0	0	0	0	0	0
<u>Lucifer</u>	0.1	+	0.1	0.2	0.1	0	0.1
Other crustaceans	0.1	0	+	0	0	0	0
Barnacle nauplii	+	+	0	0.4	0	0.3	0
Barnacle cypris	+	1.1	0.9	0	0.6	0	1.3
Other nauplii	3.0	0.1	1.0	1.5	0.3	0	0.1
Decapod zoea	0.2	0.2	0.2	1.6	2.2	0.2	0.8
Decapod megalopa	0.2	0	0.5	0	+	+	0
Decapod larvae	+	0.2	0.4	0.1	1.6	0.2	0.7
Stomatopod larvae	0	+	+	0	+	0	0
Other crustacean larvae	0	0.6	0.7	0.1	0.2	+	0.3

TABLE 3-6 CONT. 'D

Medusae	1.0	0.1	0.8	0.7	0.3	1.0	1.3
Polychaeta	0.3	+	0.2	0.5	0.9	0.6	0.2
Gastropod larvae	1.5	1.7	3.5	3.4	7.7	6.6	7.0
Heteropoda	0.2	0	0	0	0.1	0	0
Pteropoda	0.7	0	0.2	0.5	3.1	1.0	0.7
Cephalopoda	0	0	0	0	0	0	0
Bivalve larvae	11.3	4.2	1.7	0.9	8.4	0.9	3.6
Other mollusca	0	0	0	0	0	0	0
Chaetognatha	6.4	1.7	12.9	6.5	3.7	2.3	4.4
Larvacea	1.8	11.1	2.0	11.5	2.3	25.9	1.3
<u>Doliolum</u>	1.2	0	0.1	12.0	0.1	0	0.2
<u>Salpa</u>	+	0	0.1	0	1.3	0	0
Echinoderm larvae	+	0	0	0	0	0	0
Others	0.3	0	0	0	0	0	0.3

TABLE 3-7
 PERCENTAGE COMPOSITION OF ZOOPLANKTON AT STATION W57

	3-8-63	4-3-63	5-2-63	5-20-63	6-26-63	7-17-63
Copepoda	63.9	64.3	66.7	51.0	68.1	78.1
Others	36.1	35.7	33.3	49.0	31.9	21.9
Foraminifera	0.1	3.6	1.9	0.6	3.4	7.7
Radiolaria	0	0.5	0	1.8	0.3	0.4
Cladocera						
<u>Evadne</u>	0	0	2.8	3.0	3.7	0
<u>Penilia</u>	0	0	0.4	7.7	1.8	0.5
<u>Podon</u>	0	0	0	0	5.4	1.1
Ostracoda						
<u>Euconchoecia</u>	15.4	7.0	0.1	25.4	0	0
<u>Conchoecia</u>	+	0	0	+	0.1	0
Mysidacea	0	0	0	0.1	0	0
Amphipoda	0.7	9.1	0.4	1.4	1.1	0.2
Euphausiacea	0	0	0	0	0	0.1
<u>Lucifer</u>	0.1	0.1	0	0	0	0.1
Other crustaceans	0	0	+	0	0.1	0
Barnacle nauplii	0	0	0	0	0.2	0
Barnacle cypris	0.1	0.6	0.4	0.3	0	0
Other nauplii	0.6	0.3	0.4	0.2	0.3	0.1
Decapod zoea	0.1	0	+	0.2	0.1	0.6
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.1	0.3	0.4	0.2	0.1	0.5
Stomatopod larvae	0	0	0.2	+	0.1	0.6
Other crustacean larvae	0.2	0	0.6	0	0	0

TABLE 3-7 CONT. 'D

Medusae	0.8	2.1	2.4	0.8	3.1	1.8
Polychaeta	0.1	0	0.5	0.2	0.4	0.6
Gastropod larvae	0.1	1.9	5.0	0.5	1.7	2.5
Heteropoda	0	0	0	+	0	0
Pteropoda	0.1	0.3	1.6	0.5	0.4	0.2
Cephalopoda	0	0	0	+	0	0
Bivalve larvae	0.1	0.4	0.6	1.0	0.6	0.1
Other mollusca	0	0	0	0	0	0
Chaetognatha	2.5	8.7	6.1	2.8	2.5	1.9
Larvacea	14.2	0.6	8.5	0.8	1.0	2.3
<u>Doliolum</u>	0.6	0.2	0.3	0.5	0.2	0.2
<u>Salpa</u>	0	0	0.1	0.6	5.1	0.3
Echinoderm larvae	0.1	0.1	0.6	+	0.1	0.1
Others	0.4	0	0.2	0	0	0.2

(+) = less than 0.05%

TABLE 3-7 CONT. 'D

	8-30-63	10-2-63	10-31-63	11-30-63	12-18-63	1-28-64
Copepoda	59.7	82.1	62.9	60.0	69.4	66.5
Others	40.3	17.9	37.1	40.0	30.6	33.5
Foraminifera	1.7	2.0	0.5	1.2	0.1	0.7
Radiolaria	1.2	0.7	0.1	0	0	0
Cladocera						
<u>Evadne</u>	+	0	0	0	0	0
<u>Penilia</u>	1.8	0	+	0	0.1	+
<u>Podon</u>	0.3	0.6	0	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.6	1.1	7.9	11.0	5.1	4.1
<u>Conchoecia</u>	0.2	0	0	0.3	0	0.5
Mysidacea	0	0	0	0	0	0
Amphipoda	0.1	0.2	0.4	0.2	+	0.4
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	+	0	0.1	0.1	1.2	0
Other crustaceans	0	0	0	0	+	0
Barnacle nauplii	0	0	0	0	0	0.2
Barnacle cypris	0	0	0	0	0	0.1
Other nauplii	0	0.1	0.2	0.3	1.5	1.5
Decapod zoea	0	0.2	0.3	0.1	1.2	0.1
Decapod megalopa	0	0	0	0	0	0
Decapod larvae	0.2	0.1	0.3	0.9	1.3	0.4
Stomatopod larvae	0	0	0	0	0	0
Other crustacean larvae	0	0	0	0.3	0.3	0

TABLE 3-7 CONT. 'D

Medusae	3.2	0.7	3.2	1.6	3.3	7.6
Polychaeta	4.3	1.2	0.4	0.8	1.1	0.4
Gastropod larvae	0.8	0.4	5.8	3.9	0.1	0.2
Heteropoda	0	0	0	0.1	0	0.1
Pteropoda	0.5	0.2	0.4	0.1	0.7	+
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	0.6	0.3	2.3	1.7	0.6	1.2
Other mollusca	0	0	0	0	0	0
Chaetognatha	3.2	1.4	2.0	3.2	8.3	4.1
Larvacea	14.7	7.4	12.3	11.9	4.1	9.7
<u>Doliolum</u>	0.9	0.2	0.7	1.2	1.3	1.9
<u>Salpa</u>	5.7	+	0.1	0.5	0.1	0.1
Echinoderm larvae	0.2	1.1	0.1	0.5	+	0
Others	+	0	0	0.1	0	+

TABLE 3-7 CONT. 'D

	2-19-64	3-18-64	4-15-64	5-23-64	6-25-64	7-16-64
Copepoda	37.5	65.4	53.5	47.7	48.6	53.6
Others	62.5	34.6	46.5	52.3	51.4	46.4
Foraminifera	2.6	0.1	0	3.0	5.9	0
Radiolaria	0	0	0	0.2	0.1	0
Cladocera						
<u>Evadne</u>	0	0	1.8	0.2	0.4	0.2
<u>Penilia</u>	0.2	+	0.4	1.6	6.2	2.0
<u>Podon</u>	0	0.2	0.5	2.9	0.5	1.3
Ostracoda						
<u>Euconchoecia</u>	3.9	9.7	19.8	9.4	1.1	17.8
<u>Conchoecia</u>	0	0.4	0	0	0	+
Mysidacea	0	0	0	0	0	0
Amphipoda	0.8	1.8	0.4	0.8	1.3	0.7
Euphausiacea	0	0	0	0	0	0
<u>Lucifer</u>	0	+	0.1	0.1	0	0.1
Other crustaceans	0	0	0	0	0	0
Barnacle nauplii	0	0	0	0.1	0	0
Barnacle cypris	0	0	0.8	0.4	1.6	0.2
Other nauplii	6.4	4.1	0	0.4	0.3	0.4
Decapod zoea	0.1	0.2	+	0.5	0.3	+
Decapod megalopa	0	0.1	+	0.1	0.1	+
Decapod larvae	0	1.7	0	0.4	0.1	0.1
Stomatopod larvae	0	+	0	+	0.1	+
Other crustacean larvae	0.1	1.4	1.0	0.2	0.1	0

TABLE 3-7 CONT. 'D

Medusae	2.5	1.3	0.9	1.5	1.7	1.3
Polychaeta	1.5	0.8	0.5	0.3	0.3	0.6
Gastropod larvae	0.9	0.9	4.1	5.6	4.3	1.6
Heteropoda	0	+	0.1	0.2	0.1	+
Pteropoda	0	0.2	0	0.7	0.7	0.7
Cephalopoda	0	0	0	0	0	0
Bivalve larvae	4.3	3.6	8.0	4.3	0.6	0.2
Other mollusca	0	0	0	0	1.0	0.1
Chaetognatha	2.4	2.0	5.4	6.5	14.1	2.4
Larvacea	12.6	4.6	1.4	11.0	6.7	16.0
<u>Doliolum</u>	23.4	1.3	0.9	1.6	0.3	0.4
<u>Salpa</u>	0	0	0	0.4	0.9	+
Echinoderm larvae	0.8	0.1	+	0.1	0.4	0.2
Others	0.3	+	0	0.1	2.4	0

TABLE 3-7 CONT. 'D

	8-30-64	9-28-64	10-29-64	11-26-64	12-16-64	1-7-65
Copepoda	53.4	62.8	70.6	49.6	66.6	68.6
Others	46.6	37.2	29.4	50.4	33.4	31.4
Foraminifera	5.7	1.1	1.6	0.3	3.4	1.4
Radiolaria	0.8	0	2.5	0	1.9	0.9
Cladocera						
<u>Evadne</u>	0.1	0	0	0	0	0
<u>Penilia</u>	0.4	0.5	0.8	0.4	0.2	0
<u>Podon</u>	8.9	1.1	0.1	0	0	0
Ostracoda						
<u>Euconchoecia</u>	0.7	8.9	2.2	0.2	3.7	0.5
<u>Conchoecia</u>	+	0	0	0.1	0.7	0.9
Mysidacea	0	0.1	0.1	0	0	0
Amphipoda	0.3	0.4	0.5	0.3	0.2	0.3
Euphausiacea	0	0	0.1	0	0	0
<u>Lucifer</u>	0	0.1	0.1	0.1	0.1	0.5
Other crustaceans	0	+	0	0	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	0	0	0.1	0	0	0
Other nauplii	0.4	0.1	0.2	0.8	3.4	1.0
Decapod zoea	0.1	0.4	0.1	0.7	0.3	0.1
Decapod megalopa	0	0	0	0.1	0.4	0
Decapod larvae	0.1	0.1	0.6	0.3	0.5	0.3
Stomatopod larvae	+	0	0	0.1	0	0
Other crustacean larvae	+	0.1	0	0.1	0.1	0.2

TABLE 3-7 CONT. 'D

Medusae	3.5	1.0	1.0	2.1	1.2	4.5
Polychaeta	0.4	0.3	0.1	0.2	0.2	0.9
Gastropod larvae	0.5	3.9	0.6	1.0	2.9	0.4
Heteropoda	+	0	0.1	0	0	0.1
Pteropoda	0.4	0.7	0.1	1.4	0.8	0.3
Cephalopoda	0	0	0	0	0	+
Bivalve larvae	+	1.2	0.4	0.1	1.1	0.1
Other mollusca	0	0	0	0.1	0	0
Chaetognatha	7.3	1.0	3.0	8.3	1.3	9.0
Larvacea	15.2	15.3	12.1	28.7	7.9	8.2
<u>Doliolum</u>	0.5	0.2	2.3	1.7	0.8	1.2
<u>Salpa</u>	0.2	0.3	0.1	0.1	0	+
Echinoderm larvae	0.7	0.1	1.0	3.5	1.8	0.5
Others	+	0	0	0	0.4	0

TABLE 3-7 CONT. 'D

	2-27-65	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65
Copepoda	59.0	72.8	73.9	48.0	29.5	67.6
Others	41.0	27.2	26.1	52.0	70.5	32.4
Foraminifera	1.5	4.2	0.4	2.5	0	2.3
Radiolaria	0	0.6	0	0.1	0.4	0.7
Cladocera						
<u>Evadne</u>	0	0	0	0	0	0
<u>Penilia</u>	0	0	0.1	0	0	0.2
<u>Podon</u>	0	0	0	0.2	26.9	0
Ostracoda						
<u>Euconchoecia</u>	14.1	0.1	6.9	0.2	0	1.6
<u>Conchoecia</u>	0.3	0.1	0.4	0	+	0.3
Mysidacea	0.4	0	0	0	0	0
Amphipoda	0.7	0.4	0.3	0.6	0.5	1.1
Euphausiacea	0	0.4	0	0	0	0
<u>Lucifer</u>	0	0.1	0	0.9	+	0.2
Other crustaceans	0	0	0	0.1	0	0
Barnacle nauplii	0	0	0	0	0	0
Barnacle cypris	0.1	0.2	0.2	2.5	0	0.1
Other nauplii	0.6	0.7	0.3	1.4	1.7	0
Decapod zoea	0.3	0.1	0.6	0.2	0.2	0.4
Decapod megalopa	+	0.1	0.1	0.1	0	0
Decapod larvae	0.4	0.2	0.4	1.7	0.8	0.3
Stomatopod larvae	0	0	0	0.1	+	0
Other crustacean larvae	0.1	0.2	0.1	0.1	0	0.2

TABLE 3-7 CONT. 'D

Medusae	0.8	5.9	0.5	1.6	2.0	2.1
Polychaeta	0.8	0.4	0.4	0.4	0.1	0.6
Gastropod larvae	3.6	0.8	1.4	8.1	0.8	2.2
Heteropoda	+	0	0.1	0.1	0	0.1
Pteropoda	0.9	0.7	0.1	0.2	0.2	1.2
Cephalopoda	0	0.1	0	0	0	0
Bivalve larvae	5.7	0.1	2.2	1.2	0.7	0.7
Other mollusca	+	0	0.1	0.1	0	0
Chaetognatha	2.6	5.9	9.2	11.9	4.4	5.8
Larvacea	7.8	3.6	2.6	17.7	27.1	9.4
<u>Doliolum</u>	0.2	2.3	0	0.2	3.5	0.6
<u>Salpa</u>	0	0	0	0.1	0.6	2.2
Echinoderm larvae	0	0	0	0	0	0.2
Others	0.1	0	0.1	0	0	0

TABLE 3-7 CONT. 'D

	9-11-65	12-10-65
Copepoda	64.6	51.3
Others	35.4	48.7
Foraminifera	0.4	0.7
Radiolaria	0	0
Cladocera		
<u>Evadne</u>	0	0
<u>Penilia</u>	0	0
<u>Podon</u>	0.6	0
Ostracoda		
<u>Euconchoecia</u>	2.2	10.7
<u>Conchoecia</u>	0.2	0.1
Mysidacea	+	0.3
Amphipoda	0.8	0.6
Euphausiacea	0	0
<u>Lucifer</u>	0	0.3
Other crustaceans	0	0
Barnacle nauplii	0	0
Barnacle cypris	7.3	1.1
Other nauplii	+	0.2
Decapod zoea	0.2	0.4
Decapod megalopa	0	+
Decapod larvae	0.6	1.7
Stomatopod larvae	0	+
Other crustacean larvae	0	0

TABLE 3-7 CONT. 'D

Medusae	1.0	1.9
Polychaeta	2.2	0.3
Gastropod larvae	1.5	18.9
Heteropoda	0.1	0.2
Pteropoda	0.6	0.7
Cephalopoda	0	0
Bivalve larvae	0.2	3.1
Other mollusca	0	+
Chaetognatha	3.5	5.2
Larvacea	13.2	1.9
<u>Doliolum</u>	0.1	0.2
<u>Salpa</u>	0.7	0
Echinoderm larvae	0	0
Others	+	0

TABLE 4-1
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W60

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
3-9-63	172.3	87.0	64.5	3.0	19.5	61.9	15.2	10.9	35.8	23.4	0	0.3	0	23.0
4-5-63	1473.8	1270.5	307.6	119.7	843.3	173.6	39.7	80.0	53.9	29.6	0	0	0	29.6
6-28-63	842.7	493.9	174.9	53.3	265.6	228.3	113.1	33.1	82.1	120.5	2.1	1.1	0	117.3
7-15-63	1065.0	788.5	258.6	48.6	481.3	215.0	139.5	51.2	24.3	61.4	0	0	0	61.4
8-29-63	1648.6	1207.0	199.7	184.3	823.0	390.4	145.9	90.9	153.6	51.2	1.3	2.6	0	47.4
10-4-63	8082.7	6709.1	2026.1	983.4	3699.5	974.0	349.7	483.9	140.5	399.6	0	0	0	399.6
11-3-63	380.6	207.4	65.7	16.0	125.7	165.7	44.0	67.4	54.3	7.4	0.6	0.6	0	6.3
12-2-63	304.9	231.9	131.2	19.2	81.5	67.6	53.3	7.5	6.8	5.3	0.4	0	0	4.9
12-22-63	637.6	407.9	139.5	65.4	203.0	75.0	75.0	0	0	154.7	0.5	0	0	154.3
1-29-64	1608.1	1524.3	1210.6	174.9	138.8	83.8	5.4	71.2	7.2	0	0	0	0	0
2-20-64	328.9	309.3	91.0	36.7	181.6	11.9	8.6	2.1	1.2	7.7	0	0	0	7.7

TABLE 4-1 CONT.'D

3-20-64	1638.9	1381.7	1030.9	19.4	331.4	252.6	166.9	12.6	73.1	4.6	0	0	0	4.6
4-17-64	4509.8	4241.9	693.6	547.7	3000.6	217.3	59.5	71.4	86.3	50.6	0	0	0	50.6
5-24-64	2760.7	1181.1	354.9	43.6	782.5	1338.2	142.5	162.9	1032.7	241.5	0	2.9	0	238.5
6-26-64	2688.0	2259.1	1387.8	208.8	662.5	332.4	157.2	114.5	60.6	96.6	0	0	0	96.6
7-18-64	2089.7	1753.0	704.0	180.9	868.2	225.4	164.2	27.8	33.4	111.3	0	0	0	111.3
8-31-64	713.4	420.4	121.7	34.5	264.2	289.3	144.3	82.8	62.1	3.8	0	0	0	3.8
9-25-64	4040.7	3918.5	1099.6	596.4	2222.5	122.2	75.6	32.0	14.5	0	0	0	0	0
10-30-64	4352.0	2179.3	436.5	318.4	1424.4	2002.1	656.4	32.8	1312.8	170.7	0	0	0	170.7
11-24-64	1850.8	1670.3	654.7	438.6	577.0	119.6	69.2	8.4	42.0	60.9	0	0	0	60.9
12-17-64	903.3	759.6	501.5	23.1	235.0	100.7	82.9	11.5	6.3	43.0	1.0	0	0	42.0
1-9-65	2280.7	1567.0	688.5	161.0	717.6	579.9	302.5	184.2	93.1	133.8	0	0	0	133.8
2-28-65	344.9	312.9	74.8	20.9	217.2	27.1	22.4	1.6	3.1	4.9	0	0	0	4.9
3-23-65	313.1	211.2	79.8	28.6	102.9	52.2	12.8	20.7	18.7	49.7	0	0	0	49.7
4-25-65	2228.2	1421.1	775.8	203.8	441.5	214.2	75.8	49.6	88.8	593.0	2.6	0	0	590.4
5-31-65	269.2	221.6	47.1	15.3	159.3	46.1	12.3	13.8	20.1	1.5	0	0	0.2	1.3
6-13-65	910.4	766.4	422.4	22.4	321.6	112.8	30.4	11.2	71.2	31.2	0	0	0	31.2

TABLE 4-2
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W61

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
3-09-63	123.3	83.0	39.4	6.3	37.3	31.1	6.4	3.8	20.9	9.3	0	0	0	9.3
4-05-63	3527.8	2928.4	636.9	284.1	2007.4	402.7	84.3	140.5	178.0	196.7	0	0	0	196.7
6-28-63	1326.1	961.3	491.5	110.1	359.7	295.7	96.0	153.6	46.1	69.1	2.6	5.1	0	61.4
8-29-63	812.4	391.8	162.0	48.3	181.6	416.0	213.6	169.1	33.3	4.6	0.7	1.3	0	2.6
10-04-63	2755.4	2007.6	532.2	146.0	1329.4	617.5	291.9	103.3	222.3	130.2	2.2	0	0	128.0
11-03-63	523.0	328.1	105.2	61.8	161.1	154.5	44.1	67.7	42.7	40.5	0	2.2	0	38.3
12-02-63	622.8	461.2	231.6	29.7	199.9	139.9	31.0	47.5	61.4	21.8	2.6	0.7	0	18.5
12-22-63	307.8	174.1	94.8	16.7	62.6	93.9	65.9	17.7	10.3	39.9	2.9	3.1	0.5	33.4
1-29-64	612.7	418.4	264.5	36.2	117.6	132.2	85.2	11.8	35.3	62.1	0	0	0	62.1
3-19-64	1352.3	1141.7	356.1	95.0	690.6	199.2	37.2	39.2	122.8	11.4	0	0	0	11.4
4-17-64	6628.2	5849.0	1625.0	773.6	3450.4	701.2	133.6	389.6	178.1	77.9	0	5.6	0	72.3
5-24-64	480.0	240.9	77.7	23.8	139.4	150.4	47.5	34.3	68.6	88.7	0.5	1.4	0	86.9

TABLE 4-2 CONT.'D

6-26-64	4470.8	3248.8	947.5	488.7	1852.7	1108.5	564.8	282.4	261.3	113.5	7.9	5.3	0	100.3
7-17-64	4007.5	1471.2	524.6	335.0	611.6	2081.2	1807.8	207.0	66.4	455.1	3.2	1.6	0	450.4
8-31-64	951.4	645.0	347.3	76.9	220.8	303.5	141.7	116.5	45.3	2.9	0.7	0	0	2.2
9-25-64	5594.2	4648.7	1434.2	980.4	2234.2	910.5	322.9	352.0	235.6	34.9	0	0	0	34.9
10-30-64	1624.7	1079.3	458.2	46.5	574.5	528.0	225.5	119.3	183.3	17.5	2.9	0	1.5	13.1
11-24-64	1617.7	1509.5	1068.1	134.6	306.8	101.5	68.4	28.7	4.4	6.6	0	0	0	6.6
12-17-64	1544.9	1142.3	511.2	38.1	593.0	279.5	66.4	82.6	130.4	123.1	0	0	0	123.1
1-09-65	2299.8	1947.3	820.5	132.2	994.6	285.4	77.6	60.9	146.9	67.1	0	2.1	0	65.0
2-28-65	1392.3	1043.6	414.0	69.2	560.3	313.5	185.5	50.9	77.1	35.3	0	3.9	0	31.3
3-22-65	279.4	186.7	103.3	28.7	54.7	49.9	16.8	7.1	26.0	42.8	0.9	0	0	41.9
4-25-65	1498.3	1368.6	425.0	146.9	796.7	53.3	28.7	19.7	4.9	76.3	3.3	0	0	73.0
5-30-65	3276.1	3186.2	1792.0	141.8	1252.3	83.0	24.2	38.1	20.8	6.9	0	0	0	6.9
6-13-65	427.1	248.0	101.5	17.8	128.6	171.7	69.5	38.8	63.4	7.4	0.6	0.6	0	6.2
8-13-65	2407.1	1481.1	548.6	96.4	836.2	889.4	390.6	330.8	167.9	36.6	5.0	8.3	0	23.3
12-11-65	1063.7	708.0	266.6	38.8	402.5	306.3	151.8	75.9	78.6	49.4	0	0	0	49.4

TABLE 4-3
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W62

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
3-09-63	393.0	192.7	59.8	11.1	121.7	146.1	57.4	29.6	59.1	54.3	1.4	0.3	0	52.5
4-04-63	2403.6	1658.3	283.0	103.8	1271.5	550.4	240.4	179.2	130.8	194.8	2.8	0	0	192.0
6-27-63	854.2	413.1	130.9	53.3	228.9	415.6	245.7	86.6	83.3	25.4	10.7	11.1	1.2	2.5
7-15-63	1526.6	1383.3	473.2	189.1	721.0	131.5	62.2	41.1	28.2	11.7	0	1.2	0	10.6
8-29-63	289.3	222.7	71.0	14.3	137.4	65.1	29.9	25.2	10.0	1.5	0	0	0	1.5
10-04-63	891.1	657.4	276.2	73.0	308.2	154.4	61.2	48.0	45.2	79.3	0.7	0.7	0	77.9
11-03-63	551.6	384.6	156.0	35.7	192.8	145.4	72.1	28.2	45.2	21.7	0.6	0	0	21.1
12-02-63	385.1	203.2	62.2	27.5	113.5	151.3	87.5	38.5	25.3	30.7	3.4	3.1	0	24.2
12-21-63	849.9	555.3	282.8	28.2	244.2	232.5	90.8	70.6	71.1	62.1	11.3	15.1	2.4	33.4
1-29-64	614.3	434.2	229.3	52.1	152.8	149.6	72.8	41.4	35.5	30.4	0.6	0.6	0	29.2
3-19-64	1925.3	918.4	312.7	80.5	525.2	882.8	439.4	182.1	261.3	124.0	4.0	4.0	0	116.1
4-16-64	1084.6	857.8	345.3	69.1	443.5	203.8	112.8	61.2	29.8	23.0	1.1	5.6	0	16.3

TABLE 4-3 CONT. 'D

5-24-64	3466.2	2399.6	1529.2	273.1	597.3	931.8	211.6	261.1	459.1	134.8	1.7	0	0	133.1
6-26-64	547.6	327.1	91.1	49.3	186.7	200.4	121.8	16.0	62.7	20.0	0	0	0	20.0
7-17-64	794.1	442.1	171.9	40.3	229.9	343.1	161.8	119.7	61.6	8.9	2.4	0	1.2	5.3
8-31-64	1035.9	571.9	274.6	37.7	259.6	454.7	210.1	211.6	33.0	9.3	2.1	0.5	0	6.7
9-26-64	1166.9	798.5	274.6	95.3	428.7	338.6	124.3	79.6	134.7	29.8	1.5	0.7	0	27.5
10-29-64	1472.0	847.4	241.7	61.8	544.0	546.2	241.7	152.3	152.3	78.3	0	1.1	0	77.2
11-24-64	1706.3	1072.3	496.3	118.3	457.7	600.2	285.0	205.3	109.9	33.8	4.8	9.7	1.2	18.1
12-17-64	669.8	378.1	178.2	28.1	171.8	275.4	136.7	75.5	63.2	16.3	4.2	5.1	0.6	6.5
1-08-65	1277.0	943.6	427.9	76.7	439.1	311.8	189.8	89.3	32.7	21.6	6.0	3.7	0.7	11.2
2-28-65	233.1	184.2	100.8	12.0	71.4	42.0	20.4	10.0	11.6	6.8	0.3	0	0	6.5
3-22-65	333.0	233.4	84.8	25.1	123.5	96.0	58.3	16.0	21.7	3.6	0.9	1.2	0	1.5
4-24-65	550.6	476.2	124.5	37.6	314.1	51.8	27.5	11.8	12.5	22.6	0.3	0	0	22.3
5-30-65	424.0	338.7	185.6	26.1	126.9	69.9	22.4	33.6	13.9	15.5	1.1	0	0	14.4
6-13-65	1174.9	739.4	300.6	52.6	386.3	386.3	138.3	128.0	120.0	49.1	1.1	1.1	0	46.9
8-13-65	227.2	128.3	50.9	5.1	72.3	98.0	37.0	38.0	23.1	0.9	0.7	0.1	0.1	0

TABLE 4-4

NUMERICAL ABUNDANCE OF COPEPODS PER M³

AT STATION W13

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
4-6-63	1219.5	1135.7	472.4	91.9	571.3	82.6	44.2	1.2	37.2	1.2	1.2	0	0	0
5-2-63	2046.3	1623.6	368.8	165.1	1089.7	375.6	134.7	42.1	198.7	47.2	0	0	0	47.2
5-22-63	403.4	47.0	5.4	1.3	40.3	152.3	39.2	37.2	75.9	204.1	0.5	0	0	203.6
6-27-63	418.6	297.0	61.4	19.5	216.0	112.3	40.5	13.9	57.9	9.3	0.2	0.6	0	8.5
7-16-63	2414.0	1496.3	676.1	475.9	344.3	888.8	636.4	88.3	164.1	28.8	0	5.4	0	23.4
8-28-63	398.8	245.9	78.0	53.9	114.0	138.1	71.0	24.2	42.9	14.8	0	1.6	0	13.3
10-5-63	2575.0	1871.8	226.1	28.3	1617.5	673.2	269.3	61.5	342.4	29.9	0	0	0	29.9
11-4-63	483.5	321.4	106.1	13.2	202.1	112.0	44.9	40.7	26.4	50.1	0	0.7	0	49.4
12-1-63	438.1	190.7	67.9	14.3	108.5	234.8	150.9	67.9	16.0	12.5	0	0.4	0	12.1
1-30-64	712.9	515.4	194.0	67.4	254.0	167.5	23.1	36.1	108.3	30.0	0	0.7	0	29.3
2-19-64	65.0	49.7	30.1	8.9	10.7	8.7	8.2	0.5	0	6.6	0	0.2	0	6.5
3-21-64	491.8	474.9	216.8	51.8	206.3	14.7	5.9	2.9	5.9	2.1	0	0	0	2.1

TABLE 4-4 CONT. 'D

4-18-64	1511.7	1509.5	676.4	103.7	729.4	1.1	0	1.1	0	1.1	0	0	0	1.1
5-25-64	15681.1	15446.8	5675.4	1145.5	8625.9	112.8	8.7	86.8	17.4	121.5	0	0	0	121.5
6-27-64	678.9	539.0	183.3	30.2	325.5	125.3	55.8	48.0	21.5	14.6	0.5	0.5	0.5	13.3
7-18-64	738.5	513.0	52.3	87.9	372.8	173.2	66.0	73.1	34.0	52.3	0	0	0	52.3
9-1-64	598.4	412.8	66.6	14.7	331.5	139.5	49.9	30.1	59.5	46.1	0.6	0.6	0	44.8
10-31-64	6843.7	4423.7	563.2	385.7	3474.8	1955.8	501.8	245.8	1208.3	464.2	0	0	0	464.2
12-18-64	1327.2	1114.6	464.1	73.4	577.1	137.7	104.8	21.0	12.0	74.9	0.7	1.5	0.7	71.9
3-1-65	1963.1	1888.8	1262.8	233.5	392.6	63.7	50.4	0	13.3	10.6	0	0	0	10.6
4-25-65	620.8	356.0	133.6	35.2	187.2	196.0	23.2	64.8	108.0	68.8	0	0	0	68.8
5-29-65	827.4	802.3	172.6	162.3	467.4	22.9	12.6	5.7	4.6	2.3	0	0	0	2.3
6-14-65	500.8	463.3	114.0	69.4	279.8	31.7	20.4	2.7	8.5	5.8	0	0	0	5.8
8-14-65	447.4	363.4	19.4	13.4	330.6	80.9	40.9	6.9	33.1	3.1	0	0.3	0	2.9
9-12-65	1038.8	828.8	268.5	70.5	489.7	194.8	63.5	71.4	59.8	15.3	0	0.5	0.9	13.9
12-12-65	4320.0	3427.2	771.2	339.2	2316.8	624.0	246.4	112.0	265.6	268.8	0	0	0	268.8

TABLE 4-5
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W14

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
4-4-63	1059.1	896.8	258.3	40.6	597.9	140.5	43.7	22.6	74.1	21.9	0.8	0.8	0	20.3
5-2-63	778.4	508.5	129.4	28.5	350.6	222.6	66.1	104.3	52.2	47.3	2.1	2.1	0.7	42.4
5-21-63	509.4	428.7	197.3	90.3	141.2	75.4	44.7	24.5	6.1	5.3	0.9	0	0	4.4
6-26-63	963.6	629.8	392.0	80.7	157.1	333.8	108.4	117.8	107.6	0	0	0	0	0
7-16-63	1116.1	866.1	526.4	47.9	291.9	245.2	149.5	81.3	14.4	4.8	0	0	0	4.8
8-30-63	268.8	176.3	77.8	16.6	81.9	90.2	31.4	47.7	11.2	2.2	0.3	0.6	0	1.3
10-2-63	395.3	234.5	65.2	28.5	140.9	136.2	89.8	44.5	2.0	24.6	0	0	0	24.6
11-1-63	603.6	280.7	116.4	20.4	144.0	280.7	123.6	46.5	110.5	42.2	1.5	1.5	0	39.3
11-30-63	267.6	171.0	41.7	6.9	122.5	75.9	49.1	16.3	10.5	20.7	1.7	1.4	0	17.6
1-28-64	538.1	373.9	156.6	33.7	183.6	145.7	84.2	19.4	42.1	18.5	1.7	0.8	0	16.0
2-19-64	183.6	139.2	14.1	5.7	119.4	39.4	5.8	3.9	29.7	5.1	0	0.1	0	4.9
3-21-64	916.3	458.8	247.0	40.1	171.7	445.0	123.8	165.7	155.5	12.6	0	0	0	12.6
4-16-64	1254.5	986.9	457.5	176.0	353.5	236.4	53.1	85.8	97.5	31.3	2.2	0	0	29.1

TABLE 4-5 CONT.'D

5-23-64	197.8	157.2	84.8	7.0	65.5	30.5	7.3	7.4	15.9	10.0	0.3	0	0	9.7
6-25-64	959.3	680.9	206.5	60.7	413.7	272.5	91.1	55.4	126.0	5.9	0	5.9	0	0
7-17-64	2293.8	1175.0	294.4	69.1	811.5	889.6	573.4	184.3	131.8	229.1	5.1	2.6	0	221.4
8-30-64	848.0	592.6	138.7	49.2	404.7	230.8	68.7	101.3	60.7	24.6	3.0	1.8	0	19.9
9-27-64	1692.2	1350.8	543.6	196.3	611.0	317.4	108.4	104.1	105.0	23.9	4.3	0	0	19.6
10-29-64	494.0	200.3	29.0	4.0	167.3	193.0	67.3	53.7	72.0	100.7	1.0	1.0	0	98.7
11-26-64	334.8	156.0	61.4	20.6	74.0	164.0	84.1	60.8	19.0	14.8	3.2	0.5	0	11.1
12-16-64	397.5	253.2	86.4	160.2	6.6	136.4	89.8	25.6	21.0	8.0	1.2	1.6	0	5.2
1-7-65	549.6	372.9	102.3	33.4	237.2	141.9	76.5	30.6	34.8	34.8	2.8	4.2	0.7	27.1
2-27-65	373.4	234.1	93.2	9.9	131.0	139.3	63.0	25.5	50.7	0	0	0	0	0
3-22-65	509.2	304.4	140.4	22.4	141.6	102.4	65.2	14.8	22.4	102.4	3.2	2.4	0	96.8
4-23-65	1378.3	1125.5	493.3	260.7	371.5	224.8	104.6	95.2	25.0	28.1	1.6	4.7	0	21.9
5-29-65	1150.9	629.3	102.4	40.5	486.4	483.7	52.3	130.7	300.8	37.9	3.2	0.5	0	34.2
6-12-65	1298.8	1156.7	194.9	136.2	825.5	122.1	42.3	50.5	29.4	20.0	1.2	0	0	18.8
9-10-65	877.6	660.5	363.5	43.0	254.0	207.9	117.8	61.4	28.7	9.2	3.1	2.0	1.0	3.1

TABLE 4-6
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W15

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
3-8-63	666.2	420.1	123.7	24.9	271.5	200.9	45.7	41.4	113.8	45.2	1.0	1.0	0	43.2
4-3-63	2025.1	1432.4	399.2	153.9	879.2	585.1	246.9	160.0	178.3	7.6	3.0	1.5	0	3.0
5-20-63	1176.1	754.1	185.5	94.6	474.0	400.7	155.8	192.9	51.9	21.3	0	0.9	0.9	19.5
6-26-63	607.6	367.1	176.0	35.1	156.0	235.6	110.2	47.1	78.2	4.9	2.7	1.8	0	0.4
7-16-63	345.1	200.4	104.1	9.5	86.8	142.1	70.1	56.2	15.9	2.6	0.6	0.9	1.2	0
8-30-63	329.1	225.3	99.9	11.4	114.0	100.6	46.4	35.9	18.3	3.3	1.3	0.7	1.3	0
10-2-63	1239.6	803.4	239.2	21.9	542.3	402.5	141.5	55.6	205.5	33.7	0	0	1.7	32.0
10-31-63	659.6	365.0	112.7	14.3	238.0	273.5	115.3	34.4	123.8	21.2	4.2	1.6	0.5	14.8
11-30-63	622.9	375.5	140.8	11.1	223.6	194.6	79.4	29.0	86.2	52.9	6.8	23.9	0	21.3
12-19-63	1108.8	932.8	369.6	60.8	502.4	158.4	92.8	22.4	43.2	17.6	4.8	4.8	0	8.0
1-28-64	426.6	267.4	80.5	19.3	167.6	113.9	35.0	20.1	58.8	45.3	0.8	1.1	0.3	43.2
2-19-64	349.3	169.1	83.4	9.1	76.6	172.2	19.6	16.2	136.4	8.0	0	0.2	0	7.8

TABLE 4-6 CONT. 'D

3-19-64	722.3	323.7	69.5	9.1	245.0	357.5	146.3	72.2	139.0	41.1	1.8	0.9	0	38.4
4-15-64	1348.9	735.6	253.2	130.8	351.6	603.4	330.5	137.8	135.0	9.8	1.4	2.8	0	5.6
5-23-64	674.7	497.7	198.1	27.9	271.7	151.1	56.5	28.6	66.0	25.9	1.4	0.7	0.7	23.2
6-25-64	522.4	336.7	87.6	30.6	218.5	183.4	55.9	35.7	91.7	2.3	0.6	1.2	0	0.6
7-17-64	1344.0	693.8	410.2	45.1	238.5	641.5	394.2	158.5	88.7	8.7	2.9	1.5	1.5	2.9
8-30-64	611.6	355.0	109.9	24.6	220.4	254.6	91.9	106.1	56.6	1.9	0.5	0.3	0	1.1
9-27-64	810.2	513.3	211.6	31.6	270.1	294.4	144.2	73.0	77.2	2.6	1.7	0.4	0.4	0
10-29-64	1851.6	995.9	363.0	59.6	573.4	792.5	317.4	259.5	215.7	63.1	26.3	7.0	1.8	28.1
11-26-64	1825.4	1331.9	664.2	68.0	599.6	435.9	198.3	92.3	145.3	57.7	20.8	20.8	2.3	13.8
12-16-64	1184.3	892.0	327.4	37.7	526.8	265.4	95.7	76.8	93.0	26.9	4.0	4.0	1.3	17.4
1-7-65	161.9	89.2	36.5	4.9	47.8	67.2	34.3	15.6	17.3	5.5	1.5	0.6	0.4	3.0
2-27-65	624.9	468.0	129.3	25.8	312.9	149.3	76.4	20.4	52.4	7.6	2.2	0.9	0	4.4
3-21-65	693.8	413.9	74.2	29.3	310.4	194.4	111.3	38.9	44.3	85.5	3.6	3.0	4.8	74.2
4-23-65	1453.7	898.3	401.1	76.6	420.6	522.3	339.4	121.1	61.7	33.1	3.4	3.4	1.1	25.1
5-31-65	1626.0	1306.6	390.3	44.4	871.9	299.1	77.3	92.5	129.3	20.3	12.7	3.8	0	3.8
6-12-65	282.8	205.6	138.4	14.6	52.5	74.8	22.3	18.1	34.4	2.4	0	0	0	2.4
8-12-65	343.2	217.0	77.1	33.5	106.3	122.3	40.2	38.7	43.4	4.0	2.3	0.4	0.6	0.8
9-11-65	547.6	403.5	206.5	12.2	184.9	141.4	59.5	39.5	42.3	2.8	2.2	0	0	0.6
12-10-65	476.5	359.8	162.6	23.4	173.8	101.2	49.3	8.6	43.2	15.6	6.1	1.7	0	7.9

TABLE 4-7
 NUMERICAL ABUNDANCE OF COPEPODS PER M³
 AT STATION W57

Date	No. of Copepods Per M ³	Calanoida	Adult Females	Adult Males	Immature	Cyclopoida	Adult Females	Adult Males	Immature	Harpacticoida	Adult Females	Adult Males	Immature	Benthic
3-8-63	638.6	446.3	109.4	23.7	313.1	169.4	50.9	35.7	82.9	22.9	0.3	0.6	0.0	22.0
4-3-63	1363.4	1173.7	398.9	94.9	680.0	184.0	100.6	17.1	66.3	5.7	3.4	1.1	0.0	1.1
5-2-63	728.5	400.3	80.3	30.6	289.4	320.8	167.1	86.0	67.7	7.3	2.4	0.4	0.4	4.1
5-20-63	1199.8	882.3	321.7	114.3	446.3	309.8	148.5	104.1	57.2	7.7	0.9	0.9	0.0	6.0
6-26-63	363.4	169.2	43.4	3.1	122.8	192.0	80.0	63.1	48.9	2.2	0.6	1.2	0.3	0.0
7-16-63	528.8	333.7	121.4	15.2	197.1	181.8	85.8	52.8	43.2	13.2	5.6	5.6	2.0	0.0
8-30-63	67.4	32.2	9.3	1.1	21.7	34.8	16.5	10.8	7.6	0.4	0.1	0.2	0.0	0.0
10-2-63	641.5	327.9	149.1	11.4	167.4	305.3	171.4	94.7	39.1	8.4	3.3	3.6	1.0	0.5
10-31-63	470.1	212.8	78.9	14.4	119.5	252.5	113.1	62.4	77.1	4.8	2.4	0.8	0.0	1.6
11-30-63	378.9	210.8	96.0	10.2	104.5	163.4	77.7	35.0	50.8	4.7	0.9	2.1	0.4	1.3
12-18-63	39.7	16.8	6.0	1.3	9.6	20.9	9.1	2.5	9.3	2.0	0.2	1.0	0.0	0.8
1-28-64	187.5	96.5	36.1	6.1	54.3	88.5	36.6	14.4	37.4	2.6	0.6	0.2	0.1	1.7
2-19-64	94.3	52.3	12.3	1.7	38.8	34.4	7.8	4.5	22.1	7.6	0.3	0.0	0.0	7.3

TABLE 4-7 CONT.'D

3-18-64	959.6	569.5	158.8	55.4	355.3	354.3	180.9	91.7	81.6	35.8	2.5	0	0	33.3
4-15-64	2395.4	1395.8	597.3	121.9	676.6	953.9	502.9	280.4	170.7	45.7	0	0	0	45.7
5-23-64	557.4	409.7	156.0	27.4	226.3	138.3	46.9	37.4	54.0	9.4	1.1	0.3	0.3	7.7
6-25-64	366.4	263.7	95.2	17.8	150.7	101.1	24.7	31.4	45.0	1.6	0.4	0.4	0.4	0.4
7-16-64	896.5	466.1	213.5	44.9	207.8	426.0	187.2	149.5	89.3	4.3	0.5	0	1.9	1.9
8-30-64	1118.8	526.5	426.5	51.9	48.1	583.5	242.0	200.9	140.6	8.9	2.3	0.9	0.5	5.1
9-28-64	1433.7	751.8	370.8	49.3	331.8	673.1	366.3	201.6	105.2	8.8	5.1	0.7	1.5	1.5
10-29-64	1025.5	586.6	291.1	17.6	277.9	425.7	193.1	164.6	68.0	13.2	6.6	2.9	3.7	0
11-26-64	440.7	270.1	90.3	19.5	160.3	162.7	71.9	32.0	58.8	7.9	2.7	4.3	0.8	0
12-16-64	486.5	322.2	105.5	15.6	201.1	153.5	70.5	35.9	47.1	10.8	2.2	6.5	0.9	1.3
1-7-65	471.7	220.4	90.0	9.8	120.5	251.3	102.2	61.2	87.9	2.8	1.7	0.6	0	0.4
2-27-65	403.5	268.7	99.1	32.4	137.2	122.5	73.0	13.8	35.7	12.3	2.9	1.1	0	8.3
3-21-65	937.7	759.5	168.0	35.5	556.0	171.4	106.6	38.9	25.9	6.8	1.1	0.6	0	5.1
4-23-65	1500.5	694.5	253.5	68.4	372.6	797.1	438.5	212.9	145.7	8.9	2.5	2.5	0	3.8
5-31-65	326.6	155.2	21.0	5.6	128.6	165.4	50.6	57.0	57.8	6.0	3.2	0.4	0.4	2.0
6-12-65	366.4	255.2	156.8	15.2	83.2	94.4	38.8	26.4	29.2	16.8	1.6	0.0	0.0	14.2
8-12-65	516.6	340.6	134.9	22.5	183.2	172.2	78.9	44.6	48.8	3.8	2.3	1.1	0.0	0.4
9-11-65	378.7	194.1	70.5	15.0	108.6	178.8	86.9	40.2	51.7	5.9	3.5	1.5	0.9	0.0
12-10-65	540.3	420.6	149.9	16.8	253.9	116.1	62.2	18.0	36.0	3.7	1.8	1.8	0.0	0.0

TABLE 5-1

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W60

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immatures	Adult Females	Adult Males	Immatures
3-09-63	50.5	35.9	13.6	74.1	3.5	22.4	24.5	17.6	57.9
4-05-63	86.2	11.8	2.0	24.2	9.4	66.4	22.9	46.1	31.1
6-28-63	58.6	27.1	14.3	35.4	10.8	53.8	49.5	14.5	36.0
7-15-63	74.0	20.2	5.8	32.8	6.2	61.0	64.9	23.8	11.3
8-29-63	73.2	23.7	3.1	16.5	15.3	68.2	37.4	23.3	39.3
10-04-63	83.0	12.1	4.9	30.2	14.7	55.1	35.9	49.7	14.4
11-03-63	54.5	43.5	2.0	31.7	7.7	60.6	26.6	40.7	32.8
12-02-63	76.1	22.2	1.7	56.6	8.3	35.1	78.9	11.0	10.1
12-22-63	64.0	11.8	24.3	34.2	16.0	49.8	100.0	0	0
1-29-64	94.8	5.2	0	79.4	11.5	9.1	6.5	84.9	8.6
2-20-64	94.1	3.6	2.3	29.4	11.9	58.7	72.5	17.5	10.0
3-20-64	84.3	15.4	0.3	74.6	1.4	24.0	66.1	5.0	29.0
4-17-64	94.1	4.8	1.1	16.4	12.9	70.7	27.4	32.9	39.7
5-24-64	42.8	48.5	8.7	30.0	3.7	66.3	10.7	12.2	77.2
6-26-64	84.0	12.4	3.6	61.4	9.2	29.3	47.3	34.5	18.2
7-18-64	83.9	10.8	5.3	40.2	10.3	49.5	72.8	12.3	14.8
8-31-64	58.9	40.5	0.5	29.0	8.2	62.8	49.9	28.6	21.5

TABLE 5-1 CONT.'D

9-25-64	97.0	3.0	0	28.1	15.2	56.7	61.9	26.2	11.9
10-30-64	50.1	46.0	3.9	20.0	14.6	65.4	32.8	1.6	65.6
11-24-64	90.2	6.5	3.3	39.2	26.3	34.5	57.9	7.0	35.1
12-17-64	84.1	11.1	4.8	66.0	3.0	30.9	82.3	11.5	6.2
1-09-65	68.7	25.4	5.9	43.9	10.3	45.8	52.2	31.8	16.1
2-28-65	90.7	7.9	1.4	23.9	6.7	69.4	82.5	6.0	11.5
3-23-65	67.5	16.7	15.9	37.8	13.5	48.7	24.5	39.6	35.8
4-25-65	63.8	9.6	26.6	54.6	14.3	31.1	35.4	23.2	41.5
5-31-65	82.3	17.1	0.6	21.2	6.9	71.9	26.6	29.8	43.5
6-13-65	84.2	12.4	3.4	55.1	2.9	42.0	27.0	9.9	63.1
8-13-65	70.8	21.8	7.5	26.6	14.3	59.1	17.9	11.0	71.1
12-11-65	79.1	18.8	2.1	15.1	1.8	83.0	59.3	6.1	34.6

TABLE 5-2

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W61

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immatures	Adult Females	Adult Males	Immature
3-09-63	67.3	25.2	7.5	47.5	7.6	44.9	20.6	12.1	67.3
4-05-63	83.0	11.4	5.6	21.7	9.7	68.6	20.9	34.9	44.2
6-28-63	72.5	22.3	5.2	51.1	11.5	37.4	32.5	51.9	15.6
8-29-63	48.2	51.2	0.6	41.3	12.3	46.3	51.3	40.7	8.0
10-04-63	72.9	22.4	4.7	26.5	7.3	66.2	47.3	16.7	36.0
11-03-63	62.7	29.5	7.7	32.1	18.8	49.1	28.6	43.8	27.6
12-02-63	74.0	22.5	3.5	50.2	6.4	43.3	22.2	34.0	43.9
12-22-63	56.6	30.5	13.0	54.5	9.6	35.9	70.2	18.8	10.9
1-29-64	68.3	21.6	10.1	63.2	8.7	28.1	64.4	8.9	26.7
3-19-64	84.4	14.7	0.8	31.2	8.3	60.5	18.7	19.7	61.7
4-17-64	88.2	10.6	1.2	27.8	13.2	59.0	19.0	55.6	25.4
5-24-64	50.2	31.3	18.5	32.3	9.9	57.9	31.6	22.8	45.6
6-26-64	72.7	24.8	2.5	29.2	13.8	57.0	51.0	25.5	23.6
7-17-64	36.7	51.9	11.4	35.7	22.8	41.6	86.9	9.9	3.2
8-31-64	67.8	31.9	0.3	53.8	11.9	34.2	46.7	38.4	14.9
9-25-64	83.1	16.3	0.6	30.9	21.1	48.1	35.5	38.7	25.9
10-30-64	66.4	32.5	1.1	42.5	4.3	53.2	42.7	22.6	34.7
11-24-64	93.3	6.3	0.4	70.8	8.9	20.3	67.4	28.3	4.3

TABLE 5-2 CONT.'D

12-17-64	73.9	18.1	8.0	44.8	3.3	51.9	23.8	29.6	46.7
1-09-65	84.7	12.4	2.9	42.1	6.8	51.1	27.2	21.3	51.5
2-28-65	75.0	22.5	2.5	39.7	6.6	53.7	59.2	16.3	24.6
3-22-65	66.8	17.9	15.3	55.3	15.4	29.3	33.6	14.2	52.2
4-25-65	91.3	3.6	5.1	31.1	10.7	58.2	53.8	36.9	9.2
5-30-65	97.3	2.5	0.2	56.2	4.5	39.3	29.2	45.8	25.0
6-13-65	58.1	40.2	1.7	40.9	7.2	51.9	40.5	22.6	36.9
8-13-65	61.5	36.9	1.5	37.0	6.5	56.5	43.9	37.2	18.9
12-11-65	66.6	28.8	4.6	37.7	5.5	56.9	49.6	24.8	25.6

TABLE 5-3

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W62

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
3-09-63	49.0	37.2	13.8	31.0	5.8	63.2	39.3	20.2	40.5
4-04-63	69.0	22.9	8.1	17.1	6.3	76.7	43.7	32.6	23.8
6-27-63	48.4	48.7	3.0	31.7	12.9	55.4	59.1	20.8	20.0
7-15-63	90.6	8.6	0.8	34.2	13.7	52.1	47.3	31.3	21.4
8-29-63	77.0	22.5	0.5	31.9	6.4	61.7	45.9	38.7	15.4
10-04-63	73.8	17.3	8.9	42.0	11.1	46.9	39.6	31.1	29.3
11-03-63	69.7	26.4	3.9	40.6	9.3	50.1	49.6	19.4	31.1
12-02-63	52.8	39.3	8.0	30.6	13.5	55.8	57.8	25.4	16.7
12-21-63	65.3	27.4	7.3	50.9	5.1	44.0	39.1	30.4	30.6
1-29-64	70.7	24.4	5.0	52.8	12.0	35.2	48.6	27.7	23.7
3-19-64	47.7	45.9	6.4	34.1	8.8	57.2	49.8	20.6	29.6
4-16-64	79.1	18.8	2.1	40.2	8.0	51.7	55.4	30.0	14.6
5-24-64	69.2	26.9	3.9	63.7	11.4	24.9	22.7	28.0	49.3
6-26-64	59.7	36.6	3.7	27.9	15.1	57.1	60.8	8.0	31.3
7-17-64	55.7	43.2	1.1	38.9	9.1	52.0	47.2	34.9	18.0
8-31-64	55.2	43.9	0.9	48.0	6.6	45.4	46.2	46.5	7.3
9-26-64	68.4	29.0	2.6	34.4	11.9	53.7	36.7	23.5	39.8

TABLE 5-3 CONT.'D

10-29-64	57.6	37.1	5.3	28.5	7.3	64.2	44.2	27.9	27.9
11-24-64	62.8	35.2	2.0	46.3	11.0	42.7	47.5	34.2	18.3
12-17-64	56.5	41.1	2.4	47.1	7.4	45.4	49.6	27.4	22.9
1-08-65	73.9	24.4	1.7	45.3	8.1	46.5	60.9	28.6	10.5
2-28-65	79.1	18.0	2.9	54.7	6.5	38.8	48.5	23.8	27.7
3-22-65	70.1	28.8	1.1	36.4	10.7	52.9	60.7	16.7	22.6
4-24-65	86.5	9.4	4.1	26.2	7.9	66.0	53.0	22.8	24.2
5-30-65	79.9	16.5	3.6	54.8	7.7	37.5	32.1	48.1	19.8
6-13-65	62.9	32.9	4.2	40.6	7.1	52.2	35.8	33.1	31.1
8-13-65	56.5	43.1	0.4	39.6	4.0	56.3	37.7	38.7	23.5

TABLE 5-4

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W13

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
4-6-63	93.1	6.8	0.1	41.6	8.1	50.3	53.5	1.4	45.1
5-2-63	79.3	18.4	2.3	22.7	10.2	67.1	35.9	11.2	52.9
5-22-63	11.6	37.7	50.6	11.5	2.7	85.7	25.8	24.4	49.8
6-27-63	70.9	26.8	2.2	20.7	6.6	72.7	36.0	12.4	51.6
7-16-63	62.0	36.8	1.2	45.2	31.8	23.0	71.6	9.9	18.5
8-28-63	61.6	34.6	3.7	31.7	21.9	46.3	51.4	17.5	31.1
10-5-63	72.7	26.1	1.2	12.1	1.5	86.4	40.0	9.1	50.9
11-4-63	66.5	23.2	10.4	33.0	4.1	62.9	40.1	36.3	23.5
12-1-63	43.5	53.6	2.9	35.6	7.5	56.9	64.3	28.9	6.8
1-30-64	72.3	23.5	4.2	37.6	13.1	49.3	13.8	21.5	64.6
2-19-64	76.4	13.4	10.2	60.6	17.8	21.6	94.1	5.9	0
3-21-64	96.6	3.0	0.4	45.7	10.9	43.4	40.0	20.0	40.0
4-18-64	99.9	0.1	0.1	44.8	6.9	48.3	0	100.0	0
5-25-64	98.5	0.7	0.8	36.7	7.4	55.8	7.7	76.9	15.4
6-27-64	79.4	18.5	2.2	34.0	5.6	60.4	44.5	38.3	17.2
7-18-64	69.5	23.5	7.1	10.2	17.1	72.7	38.1	42.2	19.6
9-1-64	69.0	23.3	7.7	16.1	3.6	80.3	35.8	21.6	42.7

TABLE 5-4 CONT. 'D

10-31-64	64.6	28.6	6.8	12.7	8.7	78.5	25.7	12.6	61.8
12-18-64	84.0	10.4	5.6	41.6	6.6	51.8	76.1	15.2	8.7
3-1-65	96.2	3.2	0.5	66.9	12.4	20.8	79.2	0	20.8
4-25-65	57.3	31.6	11.1	37.5	9.9	52.6	11.8	33.1	55.1
5-29-65	97.0	2.8	0.3	21.5	20.2	58.3	55.0	25.0	20.0
6-14-65	92.5	6.3	1.2	24.6	15.0	60.4	64.5	8.6	26.9
8-14-65	81.2	18.1	0.7	5.3	3.7	91.0	50.5	8.5	41.0
9-12-65	79.8	18.7	1.5	32.4	8.5	59.1	32.6	36.7	30.7
12-12-65	79.3	14.4	6.2	22.5	9.9	67.6	39.5	17.9	42.6

TABLE 5-5

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W14

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
4-4-63	84.7	13.3	2.1	28.8	4.5	66.7	31.1	16.1	52.8
5-2-63	65.3	28.6	6.1	25.4	5.6	68.9	29.7	46.9	23.4
5-21-63	84.2	14.8	1.0	46.0	21.1	32.9	59.3	32.6	8.1
6-26-63	65.4	34.6	0	62.2	12.8	24.9	32.5	35.3	32.2
7-16-63	77.6	22.0	0.4	60.8	5.5	33.7	61.0	33.2	5.9
8-30-63	65.6	33.6	0.8	44.1	9.4	46.5	34.8	52.8	12.4
10-2-63	59.3	34.5	6.2	27.8	12.1	60.1	65.9	32.7	1.4
11-1-63	46.5	46.5	7.0	41.5	7.3	51.3	44.0	16.6	39.4
11-30-63	63.9	28.4	7.7	24.4	4.0	71.6	64.7	21.5	13.8
1-28-64	69.5	27.1	3.4	41.9	9.0	49.1	57.8	13.3	28.9
2-19-64	75.8	21.4	2.8	10.1	4.1	85.8	14.7	9.9	75.4
3-21-64	50.1	48.6	1.4	53.8	8.7	37.4	27.8	37.2	34.9
4-16-64	78.7	18.8	2.5	46.4	17.8	35.8	22.5	36.3	41.2
5-23-64	79.5	15.4	5.1	53.9	4.4	41.6	23.8	24.3	51.9
6-25-64	71.0	28.4	0.6	30.3	8.9	60.8	33.4	20.3	46.2
7-17-64	51.2	38.8	10.0	25.1	5.9	69.1	64.5	20.7	14.8
8-30-64	69.9	27.2	2.9	23.4	8.3	68.3	29.8	43.9	26.3

TABLE 5-5 CONT. 'D

9-27-64	79.8	18.8	1.4	40.2	14.5	45.2	34.1	32.8	33.1
10-29-64	40.6	39.1	20.4	14.5	2.0	83.5	34.9	27.8	37.3
11-26-64	46.6	49.0	4.4	39.3	13.2	47.5	51.3	37.1	11.6
12-16-64	63.7	34.3	2.0	34.1	63.3	2.6	65.8	18.8	15.4
1-7-65	67.8	25.8	6.3	27.4	9.0	63.6	53.9	21.6	24.5
2-27-65	62.7	37.3	0	39.8	4.2	55.9	45.2	18.3	36.4
3-22-65	59.8	20.1	20.1	46.1	7.4	46.5	63.7	14.5	21.9
4-23-65	81.7	16.3	2.0	43.8	23.2	33.0	46.5	42.4	11.1
5-29-65	54.7	42.0	3.3	16.3	6.4	77.3	10.8	27.0	62.2
6-12-65	89.1	9.4	1.5	16.9	11.8	71.4	34.6	41.3	24.0
9-10-65	75.3	23.7	1.1	55.0	6.5	38.4	56.7	29.6	13.8

TABLE 5-6

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W15

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Female	Adult Male	Immature	Adult Female	Adult Male	Immature
3-8-63	63.1	30.2	6.8	29.4	5.9	64.6	22.8	20.6	56.6
4-3-63	70.7	28.9	0.4	27.9	10.7	61.4	42.2	27.3	30.5
5-20-63	64.1	34.1	1.8	24.6	12.5	62.9	38.9	48.1	13.0
6-26-63	60.4	38.8	0.8	47.9	9.6	42.5	46.8	20.0	33.2
7-16-63	58.1	41.2	0.8	51.9	4.7	43.3	49.3	39.6	11.2
8-30-63	68.5	30.6	1.0	44.3	5.1	50.6	46.1	35.7	18.2
10-2-63	64.8	32.5	2.7	29.8	2.7	67.5	35.1	13.8	51.0
10-31-63	55.3	41.5	3.2	30.9	3.9	65.2	42.2	12.6	45.3
11-30-63	60.3	31.2	8.5	37.5	3.0	59.5	40.8	14.9	44.3
12-19-63	84.1	14.3	1.6	39.6	6.5	53.9	58.6	14.1	27.3
1-28-64	62.7	26.7	10.6	30.1	7.2	62.7	30.7	17.6	51.7
2-19-64	48.4	49.3	2.3	49.3	5.4	45.3	11.4	9.4	79.2
3-19-64	44.8	49.5	5.7	21.5	2.8	75.7	40.9	20.2	38.9
4-15-64	54.5	44.7	0.7	34.4	17.8	47.8	54.8	22.8	22.4
5-23-64	73.8	22.4	3.8	39.8	5.6	54.6	37.4	18.9	43.7
6-25-64	64.5	35.1	0.4	26.0	9.1	64.9	30.5	19.5	50.0
7-17-64	51.6	47.7	0.6	59.1	6.5	34.4	61.5	24.7	13.8
8-30-64	58.1	41.6	0.3	31.0	6.9	62.1	36.1	41.7	22.2
9-27-64	63.3	36.3	0.3	41.2	6.2	52.6	49.0	24.8	26.2

TABLE 5-6 CONT.'D

10-29-64	53.8	42.8	3.4	36.4	6.0	57.6	40.0	32.7	27.2
11-26-64	73.0	23.9	3.2	49.9	5.1	45.0	45.5	21.2	33.3
12-16-64	75.3	22.4	2.3	36.7	4.2	59.1	36.0	28.9	35.0
1-7-65	55.1	41.5	3.4	40.9	5.5	53.6	51.1	23.2	25.7
2-27-65	74.9	23.9	1.2	27.6	5.5	66.9	51.2	13.7	35.1
3-21-65	59.7	28.0	12.3	17.9	7.1	75.0	57.2	20.0	22.8
4-23-65	61.8	35.9	2.3	44.7	8.5	46.8	65.0	23.2	11.8
5-31-65	80.4	18.4	1.2	29.9	3.4	66.7	25.8	30.9	43.2
6-12-65	72.7	26.4	0.9	67.3	7.1	25.5	29.8	24.2	46.0
8-12-65	63.2	35.6	1.2	35.6	15.5	49.0	32.9	31.6	35.5
9-11-65	73.7	25.8	0.5	51.2	3.0	45.8	42.1	28.0	29.9
12-10-65	75.5	21.2	3.3	45.2	6.5	48.3	48.7	8.5	42.7

TABLE 5-7

PERCENTAGE COMPOSITION OF COPEPODS AT STATION W57

Date	Percentage Composition								
	Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
	Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
3-8-63	69.9	26.5	3.6	24.5	5.3	70.2	30.0	21.1	48.9
4-3-63	86.1	13.5	0.4	34.0	8.1	57.9	54.7	9.3	36.0
5-2-63	55.0	44.0	1.0	20.1	7.6	72.3	52.1	26.8	21.1
5-20-63	73.5	25.8	0.6	36.5	13.0	50.6	47.9	33.6	18.5
6-26-63	46.6	52.8	0.6	25.6	1.8	72.5	41.7	32.9	25.5
7-16-63	63.1	34.4	2.5	36.4	4.6	59.1	47.2	29.1	23.7
8-30-63	47.7	51.7	0.6	29.0	3.5	67.6	47.2	31.0	21.8
10-2-63	51.1	47.6	1.3	45.5	3.5	51.0	56.2	31.0	12.8
10-31-63	45.3	53.7	1.0	37.1	6.8	56.1	44.8	24.7	30.5
11-30-63	55.6	43.1	1.2	45.5	4.9	49.6	47.5	21.4	31.1
12-18-63	42.4	52.6	5.0	35.5	7.6	56.9	43.3	12.0	44.7
1-28-64	51.5	47.2	1.4	37.5	6.3	56.3	41.4	16.3	42.3
2-19-64	55.4	36.5	8.1	23.5	3.3	73.2	22.8	13.0	64.3
3-18-64	59.3	36.9	3.7	27.9	9.7	62.4	51.1	23.0	25.9
4-15-64	58.3	39.8	1.9	42.8	8.7	48.5	52.7	29.4	17.9
5-23-64	73.5	24.8	1.7	38.1	6.7	55.2	33.9	27.1	39.0
6-25-64	72.0	27.6	0.4	36.1	6.8	57.1	24.4	31.1	44.5
7-16-64	52.0	47.5	0.5	45.8	9.6	44.6	43.9	35.1	21.0

TABLE 5-7 CONT.'D

8-30-64	47.1	52.2	0.8	81.0	9.8	9.1	41.5	34.4	24.1
9-28-64	52.4	46.9	0.6	49.3	6.6	44.1	54.4	29.9	15.6
10-29-64	57.2	41.5	1.3	49.6	3.0	47.4	45.4	38.7	16.0
11-26-64	61.3	36.9	1.8	33.4	7.2	59.3	44.2	19.7	36.2
12-16-64	66.2	31.6	2.2	32.8	4.8	62.4	45.9	23.4	30.7
1-7-65	46.1	53.3	0.6	40.1	4.5	55.4	40.7	24.4	35.0
2-27-65	66.6	30.4	3.1	36.9	12.0	51.1	59.6	11.3	29.1
3-21-65	81.0	18.3	0.7	22.1	4.7	73.2	62.2	22.7	15.1
4-23-65	46.3	53.1	0.6	36.5	9.9	53.6	55.0	26.7	18.3
5-31-65	47.5	50.6	1.8	13.5	3.6	82.9	30.6	34.5	34.9
6-12-65	69.7	25.8	4.6	61.4	6.0	32.6	41.1	28.0	30.9
8-12-65	65.9	33.3	0.7	39.6	6.6	53.8	45.8	25.9	28.3
9-11-65	51.2	47.2	1.6	36.3	7.7	56.0	48.6	22.5	28.9
12-10-65	77.8	21.5	0.7	35.7	4.0	60.4	53.5	15.5	31.0

TABLE 6-1

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W60

	3-9-63	4-5-63	6-28-63	7-15-63	8-29-63	10-4-63
Total No./m ³	102.6	375.7	400.0	431.4	390.4	2772.3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	2.1	0	0	0
<i>Acartia lilljeborgii</i>	0	0	1.1	0	0	121.8
<i>Acartia tonsa</i>	5.4	3.6	0	0	0	3.1
<i>Calanopia americana</i>	0	0	1.1	0	6.4	78.0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.2	1.2	1.1	0	0	0
<i>Calocalanus pavoninus</i>	0	1.2	0	0	0	0
<i>Calocalanus styliremis</i>	0	1.8	2.1	0	2.6	0
<i>Centropages hamatus</i>	0.2	0.6	0	0	0	0
<i>Centropages velificatus</i>	0	1.2	4.3	9.0	64.0	206.0
<i>Clausocalanus arcuicornis</i>	0.2	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0.5	7.1	3.2	1.3	1.3	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0.2	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	1.2	0	0	3.8	12.5
<i>Labidocera aestiva</i>	0	0	0	0	0	3.1
<i>Labidocera scotti</i>	0	0	3.2	0	1.3	0
<i>Lucicutia flavicornis</i>	0.2	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	1.1	0	0	0
<i>Nannocalanus minor</i>	0.2	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Paracalanus aculeatus</i>	0.2	1.8	5.3	0	5.1	28.1
<i>Paracalanus crassirostris</i>	55.8	3.0	20.3	44.8	0	93.7
<i>Paracalanus indicus</i>	0.5	24.3	46.9	142.1	47.4	74.9
<i>Paracalanus nudus</i>	0	1.2	1.1	0	0	0
<i>Paracalanus quasimodo</i>	0.8	231.1	59.7	6.4	11.5	821.1
<i>Paracandacia bispinosa</i>	0.2	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	0.2	28.4	22.4	55.0	56.3	583.8
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.6	10.1	2.1	10.2	5.1	106.1
<i>Corycaeus americanus</i>	1.8	18.4	3.2	15.4	1.3	3.1
<i>Corycaeus giesbrechti</i>	0	0	0	0	2.6	109.3
<i>Farranula gracilis</i>	0	0	1.1	0	0	0
<i>Farranula rostrata</i>	0.3	0	0	0	0	0
<i>Lichomolgus sp.1</i>	1.4	0	0	0	1.3	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0.2	0	0	0	0	6.2
<i>Oithona decipiens</i>	0	0	1.1	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	0	0	1.1	0	0	0
<i>Oithona nana</i>	4.8	1.2	77.9	97.3	16.6	121.8
<i>Oithona plumifera</i>	2.2	2.4	13.9	0	10.2	0
<i>Oithona similis</i>	0	0.6	0	0	5.1	0

TABLE 6-1 CONT.'D

<i>Oithona simplex</i>	0	0	3.2	1.3	1.3	0
<i>Oithona tenuis</i>	0	0	4.3	0	0	0
<i>Oithona sp.1</i>	0.2	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	1.9	6.5	3.2	15.4	89.6	0
<i>Oncaea mediterranea</i>	0.2	0.6	0	0	9.0	0
<i>Oncaea venusta</i>	0.5	0	0	0	2.6	3.1
<i>Paroithona pulla</i>	0	0	1.1	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	1.1	0	0	0
<i>Sapphirina nigromaculata</i>	0.2	0	0	0	1.3	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	2.1	0	1.3	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	22.9	28.4	109.9	33.3	43.5	396.5

TABLE 6-1 CONT. 'D

	11-3-63	12-2-63	12-22-63	1-29-64	2-20-64	3-20-64
Total No./m ³	116.6	189.9	369.2	1216.0	105.5	1202.3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	21.1	57.4	1.4	0	0	0
<i>Acartia tonsa</i>	0	1.9	27.2	290.3	9.2	4.6
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	1.0	9.9	29.0	9.1
<i>Centropages velificatus</i>	1.7	0.2	2.4	0	0	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0	0.9	1.0	0	0.3	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.9	3.8	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	1.1
<i>Labidocera scotti</i>	0.6	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Paracalanus aculeatus</i>	0	0	0.5	0	0.3	0
<i>Paracalanus crassirostris</i>	26.3	24.3	7.6	909.5	48.0	1002.3
<i>Paracalanus indicus</i>	4.0	30.3	37.7	0	0.6	9.1
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	5.1	11.9	34.4	0	2.4	3.4
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0.6	0	1.0	0	0	0
<i>Temora stylifera</i>	0	0.4	0	0	0	0
<i>Temora turbinata</i>	6.3	3.0	21.5	0.9	1.2	1.1
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.1	0.4	7.2	0	0	0
<i>Corycaeus americanus</i>	0.6	3.6	29.1	0	0.3	0
<i>Corycaeus giesbrechti</i>	3.4	0.6	0	0	0	0
<i>Farranula gracilis</i>	0	0.2	0	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0	0	0	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0.6	0
<i>Oithona colcarva</i>	0.6	0	0	0	0.6	10.3
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	5.1	0	0	0	0	0
<i>Oithona nana</i>	32.0	45.9	21.5	5.4	6.8	156.6
<i>Oithona plumifera</i>	0	2.3	0.5	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Oithona simplex</i>	0.6	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0	0.2	16.7	0	0	0
<i>Oncaea mediterranea</i>	0.6	0	0	0	0	0
<i>Oncaea venusta</i>	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0.3	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.6	0.2	0.5	0	0	0
<i>Macrosetella gracilis</i>	0	0.2	0	0	0	0
Benthic harpacticoid females	6.3	4.9	154.3	0	5.9	4.6

TABLE 6-1 CONT. 'D

	4-17-64	5-24-64	6-26-64	7-18-64	8-31-64	9-25-64
Total No./m ³	803.7	733.1	1641.5	976.7	269.8	1175.3
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0	0	0
Acartia lilljeborgii	0	0	0	0	0.6	453.8
Acartia tonsa	20.8	125.1	0	2.8	0	81.5
Calanopia americana	0	0	0	0	0	0
Calocalanus gracilis	0	0	0	0	0	0
Calocalanus pavo	0	0	0	0	0	0
Calocalanus pavoninus	0	0	2.2	0	0	0
Calocalanus styliremis	0	0	2.2	0	0	0
Centropages hamatus	0	0	0	0	0	0
Centropages velificatus	0	14.5	56.1	55.7	45.8	11.6
Clausocalanus arcuicornis	0	0	0	0	0	0
Clausocalanus furcatus	11.9	0	60.6	0	3.8	0
Clausocalanus jobei	3.0	2.9	0	0	0	0
Ctenocalanus vanus	0	0	0	0	0	0
Eucalanus pileatus	0	2.9	6.7	0	0.6	0
Labidocera aestiva	0	0	0	2.8	1.3	11.6
Labidocera scotti	0	0	4.5	5.6	0.6	2.9
Lucicutia flavicornis	0	0	0	0	0	0
Mecynocera clausii	0	0	0	0	0	0
Nannocalanus minor	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Paracalanus aculeatus</i>	0	0	6.7	0	3.1	0
<i>Paracalanus crassirostris</i>	26.8	0	4.5	16.7	3.8	130.9
<i>Paracalanus indicus</i>	110.1	151.3	1104.8	581.6	54.0	84.4
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	500.1	58.2	130.2	27.8	2.5	322.9
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	20.8	0	9.0	11.1	5.6	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	2.2	0	0	0
<i>Corycaeus amazonicus</i>	14.9	20.4	4.5	2.8	3.8	0
<i>Corycaeus americanus</i>	41.7	78.5	0	0	21.3	0
<i>Corycaeus giesbrechti</i>	0	0	4.5	0	1.3	2.9
<i>Farranula gracilis</i>	0	0	67.4	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	13.5	0	0	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	2.8	30.7	0
<i>Oithona minuta</i>	0	0	0	0	0	8.7
<i>Oithona nana</i>	0	40.7	33.7	97.4	45.8	61.1
<i>Oithona plumifera</i>	0	0	4.5	0	1.9	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Oithona simplex</i>	0	0	2.2	5.6	1.9	2.9
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	3.0	0	15.7	55.7	35.1	0
<i>Oncaea mediterranea</i>	0	0	0	0	0	0
<i>Oncaea venusta</i>	0	0	9.0	0	2.5	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	2.9	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	32.7	235.6	96.6	108.5	3.8	0

TABLE 6-1 CONT.'D

	10-30-64	11-24-64	12-17-64	1-9-65	2-28-65	3-23-65
Total No./m ³	1243.9	784.8	627.4	1119.0	99.7	140.3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	249.4	444.9	2.1	5.8	0	0
<i>Acartia tonsa</i>	6.6	0	6.3	1.9	4.6	3.4
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	14.4	13.8
<i>Centropages velificatus</i>	0	2.1	1.0	1.9	0	0.5
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0	0	0	1.9	0	2.0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0.5
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	14.7	12.6	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0.1	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Paracalanus aculeatus</i>	180.5	4.2	0	0	0	0
<i>Paracalanus crassirostris</i>	0	35.7	239.2	112.5	53.5	2.5
<i>Paracalanus indicus</i>	0	48.3	219.3	279.3	1.3	26.1
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	0	6.3	10.5	257.9	0.1	10.8
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	0	98.6	10.5	27.2	0.7	20.2
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0	29.4	3.1	13.6	0.3	0
<i>Corycaeus americanus</i>	0	0	7.3	131.9	0.6	2.5
<i>Corycaeus giesbrechti</i>	0	4.2	1.0	0	0	0
<i>Farranula gracilis</i>	0	0	0	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0	0	0.1	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	16.4	0	0	9.7	1.0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	82.1	2.1	0	0	0	0
<i>Oithona nana</i>	557.9	29.4	69.2	135.8	18.5	6.9
<i>Oithona plumifera</i>	0	2.1	0	1.9	1.5	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 6-1 CONT.'D

<i>Oithona simplex</i>	0	0	0	1.9	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0.1	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0	0	2.1	3.9	0	3.0
<i>Oncaea mediterranea</i>	0	0	0	1.9	0	0
<i>Oncaea venusta</i>	0	2.1	0	1.9	0	0.5
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0.1	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	1.0	0	0	0
Benthic harpacticoid females	151.0	60.9	42.0	128.0	2.5	47.8

TABLE 6-1 CONT. 'D

	4-25-65	5-31-65	6-13-65	8-13-65	12-11-65
Total No./m ³	1444.6	59.5	476.0	34.0	217.7
<u>CALANOIDA</u>					
<i>Acartia danae</i>	13.1	0.6	1.6	16.5	0
<i>Acartia lilljeborgii</i>	0	1.9	22.4	0.1	0
<i>Acartia tonsa</i>	20.9	16.0	0.8	0.1	10.4
<i>Calanopia americana</i>	0	0	3.2	3.5	0
<i>Calocalanus gracilis</i>	0	0.2	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0.1	0
<i>Calocalanus pavoninus</i>	0	0	0.8	0	0
<i>Calocalanus styliremis</i>	0	0.2	0	0	0
<i>Centropages hamatus</i>	5.2	0	0	0	0
<i>Centropages velificatus</i>	41.8	0.2	0	1.1	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0
<i>Clausocalanus furcatus</i>	18.3	0	0	0	0.5
<i>Clausocalanus jobei</i>	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.2	3.2	0	0
<i>Labidocera aestiva</i>	7.8	0.2	1.6	0.9	0
<i>Labidocera scotti</i>	0	0.2	0	0.1	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0

TABLE 6-1 CONT. 'D

<i>Paracalanus aculeatus</i>	2.6	0.7	1.6	0	0.5
<i>Paracalanus crassirostris</i>	62.7	9.9	41.6	0.1	50.5
<i>Paracalanus indicus</i>	365.7	16.2	323.2	1.4	27.0
<i>Paracalanus nudus</i>	0	0	0	0	0
<i>Paracalanus quasimodo</i>	216.8	0.6	21.6	0.2	0.9
<i>Paracandacia bispinosa</i>	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0
<i>Temora turbinata</i>	20.9	0.2	0.8	0.3	14.0
<u>CYCLOPOIDA</u>					
<i>Copilia mirabilis</i>	0	0	0	0	0
<i>Corycaeus amazonicus</i>	18.3	1.9	0.8	0.4	0
<i>Corycaeus americanus</i>	10.4	0.7	0	0.7	0
<i>Corycaeus giesbrechti</i>	0	0	0	0.1	2.3
<i>Farranula gracilis</i>	0	0	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0	0.2	0
<i>Lichomolgus sp.2</i>	0	1.1	0	0	0
<i>Oithona colcarva</i>	2.6	0	0	0	15.8
<i>Oithona decipiens</i>	0	0	0	0	0
<i>Oithona hebes</i>	0	0.2	0	0	0.5
<i>Oithona minuta</i>	0	0	2.4	0	0.5
<i>Oithona nana</i>	26.1	5.4	24.0	3.3	8.1
<i>Oithona plumifera</i>	0	0.7	0	0.1	0
<i>Oithona similis</i>	0	0	0	0	0

TABLE 6-1 CONT. 'D

<i>Oithona simplex</i>	0	0	1.6	0	67.6
<i>Oithona tenuis</i>	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0
<i>Oncaea conifera</i>	5.2	0	0	0	0
<i>Oncaea media</i>	5.2	0.2	1.6	0	1.4
<i>Oncaea mediterranea</i>	0	0	0	0.1	0
<i>Oncaea venusta</i>	5.2	1.9	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0
<i>Saphirella tropica</i>	2.6	0.2	0	0.1	0.5
<i>Saphirella sp.</i>	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0
<u>HARPACTICOIDA</u>					
<i>Clytemnestra rostrata</i>	2.6	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0
Benthic harpacticoid females	590.4	0.2	23.2	4.4	17.6

TABLE 6-2

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W61

	3-9-63	4-5-63	6-28-63	8-29-63	10-4-63	11-3-63
Total No./m ³	54.6	911.6	651.5	378.8	914.0	186.1
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	1.3	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	2.2	1.5
<i>Acartia tonsa</i>	0.5	3.1	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	2.6	0	0
<i>Calanopia americana</i>	0	0	33.3	2.0	13.5	1.5
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.2	0	1.3	2.0	0	0
<i>Calocalanus pavoninus</i>	0	0	1.3	0.7	0	0
<i>Calocalanus styliremis</i>	0	3.1	2.6	3.3	0	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	3.7	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	11.5	9.8	24.7	25.0
<i>Clausocalanus furcatus</i>	0.1	6.2	57.6	37.9	2.2	0
<i>Clausocalanus jobei</i>	0.2	12.5	16.6	9.8	0	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0

TABLE 6-2 CONT.'D

<i>Eucalanus pileatus</i>	0.1	3.1	1.3	4.6	29.2	8.8
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0.3	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	2.0	0	0
<i>Lucicutia flavicornis</i>	0.1	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	2.6	0	0	0
<i>Nannocalanus minor</i>	0.5	3.1	3.8	5.9	0	0
<i>Paracalanus aculeatus</i>	0	18.7	169.0	14.4	13.5	21.3
<i>Paracalanus crassirostris</i>	18.4	3.1	0	0	103.3	2.9
<i>Paracalanus denudatus</i>	0	0	1.3	0	0	0
<i>Paracalanus indicus</i>	0.2	121.8	115.2	20.2	143.7	21.3
<i>Paracalanus quasimodo</i>	13.7	393.4	58.9	22.2	92.1	6.6
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	2.6	1.3	6.7	2.2
<i>Temora turbinata</i>	1.4	68.7	11.5	23.5	101.1	14.0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	5.2	0	0
<i>Corycaeus amazonicus</i>	0.1	15.6	5.1	0	29.2	14.0
<i>Corycaeus americanus</i>	0.7	15.6	9.0	0	0	0.7
<i>Corycaeus giesbrechti</i>	0	3.1	5.1	6.5	20.2	9.6
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	17.9	12.4	0	0

TABLE 6-2 CONT.'D

Lichomolgus sp. 1	0	6.2	1.3	0	0	0
Lubbockia squillimana	0	0	0	0	0	0
Oithona colcarva	0.1	0	0	0	6.7	0
Oithona decipiens	0	0	0	0	0	0
Oithona hebes	0.3	0	3.8	0	0	0
Oithona minuta	0	0	0	0	0	0
Oithona nana	1.1	0	0	2.6	231.3	11.8
Oithona plumifera	1.8	3.1	12.8	54.2	2.2	8.1
Oithona setigera	0	0	0	0	0	0
Oithona similis	0.1	0	0	0	0	0
Oithona simplex	0	0	0	0	2.2	0
Oithona tenuis	0	0	3.8	0	0	0
Oithona sp. 1	0.1	0	0	0	0	0
Oncaea conifera	0	0	0	0	0	0
Oncaea media	1.6	15.6	16.6	17.6	0	0
Oncaea mediterranea	0.1	12.5	1.3	26.8	0	0
Oncaea venusta	0.1	12.5	19.2	88.2	0	0
Saphirella tropica	0	0	0	0	0	0
Saphirella sp.	0	0	0	0	0	0
Sapphirina nigromaculata	0.1	0	0	0	0	0
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0	0	0	0	2.2	0
Clytemnestra scutellata	0	0	1.3	0.7	0	0
Macrosetella gracilis	0	0	1.3	0	0	0
Microsetella norvegica	0	0	0	0	0	0
Benthic harpacticoid females	8.8	190.4	61.4	2.6	87.6	36.8

TABLE 6-2 CONT. 'D

	12-2-63	12-22-63	1-29-64	3-19-64	4-17-64	5-24-64
Total No./m ³	283.7	196.8	405.2	404.6	1831.0	210.3
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0	0	0
Acartia lilljeborgii	6.6	0	0	0	0	0
Acartia tonsa	1.3	1.2	16.5	1.0	16.7	20.1
Acrocalanus longicornis	0	0	0	0	0	0
Calanopia americana	1.3	0.5	0	0	0	0
Calanus tenuicornis	0	0	0	0	0	0
Calocalanus gracilis	0	0	0	0	0	0
Calocalanus pavo	0	0	0	0	0	0
Calocalanus pavoninus	0	0	0	0	0	0
Calocalanus styliremis	0	0	0	0	0	0
Calocalanus sp. 4	0	0	0	0	0	0
Candacia curta	0	0	0	0	0	0
Centropages hamatus	0	0	6.6	3.1	0	0
Centropages velificatus	2.6	1.2	0	1.0	0	3.7
Clausocalanus furcatus	4.6	1.4	1.9	2.1	33.4	0.5
Clausocalanus jobei	0	0.2	0	0	5.6	0
Clausocalanus mastigophorus	0	0	0	0	0	0
Clausocalanus parapergens	0	0	0	0	0	0
Clausocalanus paululus	0	0	0.5	0	0	0
Ctenocalanus vanus	0	0	0	0	0	0.5

TABLE 6-2 CONT. 'D

<i>Eucalanus pileatus</i>	5.3	7.4	0	2.1	0	0.5
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0.5
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	1.3	9.1	0.5	0	0	1.4
<i>Paracalanus crassirostris</i>	21.1	0.2	202.4	49.5	55.7	7.8
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	52.1	59.0	9.4	41.3	161.4	24.7
<i>Paracalanus quasimodo</i>	99.0	11.2	24.5	255.0	1335.7	13.7
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0.7	0.7	0	0	0	0
<i>Temora turbinata</i>	35.6	2.6	2.4	1.0	16.7	4.6
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	5.3	3.3	0.5	0	27.8	6.4
<i>Corycaeus americanus</i>	8.6	13.4	20.7	7.2	100.2	14.2
<i>Corycaeus giesbrechti</i>	5.9	2.4	0	0	0	0.5
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0.5	0	0	0	0

TABLE 6-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	0	0	5.2	0	0
<i>Lubbockia squillimana</i>	0	0	0.5	0	0	0
<i>Oithona colcarva</i>	0	0	2.8	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0.5	0	0	3.2
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0	1.0	48.0	7.2	0	13.3
<i>Oithona plumifera</i>	0.7	1.7	3.8	0	0	0.9
<i>Oithona setigera</i>	0	0	0.5	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	10.6	41.3	6.6	10.3	5.6	2.7
<i>Oncaea mediterranea</i>	0	0	0.5	6.2	0	0
<i>Oncaea venusta</i>	0	2.1	0.9	1.0	0	6.4
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0.2	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	1.3	2.6	0	0	0	0.5
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	1.3	0.2	0	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0	0	0
Benthic harpacticoid females	18.5	33.2	55.5	11.4	72.3	84.6

TABLE 6-2 CONT.'D

	6-26-64	7-17-64	8-31-64	9-25-64	10-30-64	11-24-64
Total No./m ³	1602.0	2782.8	491.1	1792.0	689.5	1143.2
<u>CALANOIDA</u>						
Acartia danae	2.6	0	5.0	0	0	0
Acartia lilljeborgii	0	0	0	736.0	10.2	19.9
Acartia tonsa	0	0	0	8.7	0	0
Acrocalanus longicornis	0	0	1.4	0	1.5	0
Calanopia americana	0	31.6	0	29.1	10.2	0
Calanus tenuicornis	0	0	4.3	0	0	0
Calocalanus gracilis	0	0	0.7	0	0	0
Calocalanus pavo	0	0	2.2	0	0	0
Calocalanus pavoninus	15.8	0	7.9	0	0	0
Calocalanus styliremis	13.2	1.6	5.0	0	0	0
Calocalanus sp. 4	0	0	0	0	0	0
Candacia curta	7.9	0	0	0	0	0
Centropages hamatus	0	0	0	0	0	0
Centropages velificatus	63.3	42.7	3.6	84.4	18.9	6.6
Clausocalanus furcatus	44.9	34.8	121.5	0	7.3	0
Clausocalanus jobei	15.8	1.6	118.7	0	0	0
Clausocalanus mastigophorus	0	0	0	0	0	0
Clausocalanus parapergens	0	0	0	0	0	0
Clausocalanus paululus	0	0	0	0	0	0
Ctenocalanus vanus	0	0	0.7	0	0	0

TABLE 6-2 CONT.'D

<i>Eucalanus pileatus</i>	21.1	1.6	0	2.9	61.1	41.9
<i>Ischnocalanus plumulosus</i>	0	0	0.7	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	1.5	0
<i>Labidocera scotti</i>	0	0	1.4	32.0	0	6.6
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	2.6	0	0	0	0	0
<i>Mecynocera clausii</i>	0	3.2	0	0	0	0
<i>Nannocalanus minor</i>	2.6	0	0	0	0	0
<i>Paracalanus aculeatus</i>	23.8	19.0	36.7	0	113.5	0
<i>Paracalanus crassirostris</i>	7.9	3.2	0	29.1	7.3	17.7
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	646.6	224.4	23.7	58.2	197.8	937.9
<i>Paracalanus quasimodo</i>	18.5	7.9	7.2	168.7	16.0	15.4
<i>Pontella meadii</i>	0	0	1.4	0	0	0
<i>Stephos deichmannae</i>	7.9	0	0	0	0	0
<i>Temora stylifera</i>	2.6	1.6	0	0	7.3	0
<i>Temora turbinata</i>	50.1	151.7	5.0	285.1	5.8	22.1
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	7.9	11.1	0	133.8	21.8	11.0
<i>Corycaeus americanus</i>	10.6	7.9	0.7	14.5	0	8.8
<i>Corycaeus giesbrechti</i>	10.6	79.0	3.6	17.5	14.5	0
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	31.7	52.1	1.4	2.9	0	0

TABLE 6-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	1.6	1.4	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	2.6	0	0	0	0	0
<i>Oithona hebes</i>	79.2	14.2	0	5.8	0	0
<i>Oithona minuta</i>	0	0	0	66.9	0	0
<i>Oithona nana</i>	13.2	6.3	0	81.5	130.9	44.1
<i>Oithona plumifera</i>	23.8	15.8	20.1	0	34.9	2.2
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	0	4.7	0	0	4.4	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0	0
<i>Oncaea conifera</i>	10.6	0	1.4	0	0	0
<i>Oncaea media</i>	285.0	1602.4	65.4	0	1.5	0
<i>Oncaea mediterranea</i>	21.1	6.3	7.9	0	17.5	0
<i>Oncaea venusta</i>	68.6	4.7	37.4	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	2.2
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	1.6	2.2	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	5.3	3.2	0	0	0	0
<i>Clytemnestra scutellata</i>	2.6	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	2.9	0
<i>Microsetella norvegica</i>	0	0	0.7	0	0	0
Benthic harpacticoid females	81.8	447.2	1.4	34.9	2.9	6.6

TABLE 6-2 CONT. 'D

	12-17-64	1-9-65	2-28-65	3-22-65	4-25-65	5-30-65
Total No./m ³	699.9	958.9	629.6	162.9	493.1	1819.7
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0	0.8	13.8
Acartia lilljeborgii	0.8	0	0	0	0	0
Acartia tonsa	0	12.6	3.9	0	27.9	3.5
Acrocalanus longicornis	0	0	0	0	0	0
Calanopia americana	0	0	0	0	14.8	3.5
Calanus tenuicornis	0	0	0	0	0	0
Calocalanus gracilis	0	0	0	0	0	0
Calocalanus pavo	0	0	0	0	0	0
Calocalanus pavoninus	0	0	0	0	0	0
Calocalanus styliremis	0	0	0	0	0	0
Calocalanus sp. 4	0	0	0	0	1.6	0
Candacia curta	0	0	0	0	0	0
Centropages hamatus	0	6.3	7.8	6.2	0.8	0
Centropages velificatus	4.1	0	1.3	1.3	3.3	0
Clausocalanus furcatus	0.8	6.3	2.6	0.9	0	3.5
Clausocalanus jobei	0	0	0	0.4	0	0
Clausocalanus mastigophorus	0	0	0	0.4	0	0
Clausocalanus parapergens	0	0	0	0.4	0	0
Clausocalanus paululus	0	0	0	0	0	0
Ctenocalanus vanus	0	0	0	0	0	0

TABLE 6-2 CONT. 'D

<i>Eucalanus pileatus</i>	9.7	2.1	0	0.9	0.8	13.8
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	1.3	0	24.6	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	3.5
<i>Paracalanus aculeatus</i>	2.4	0	3.9	0	0	86.5
<i>Paracalanus crassirostris</i>	6.5	237.1	112.3	4.0	30.4	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	436.7	146.9	252.1	52.1	204.3	1612.1
<i>Paracalanus quasimodo</i>	36.5	394.5	17.0	26.5	111.6	24.2
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	2.1	1.3	0	0	6.9
<i>Temora turbinata</i>	13.8	12.6	10.4	10.2	4.1	20.8
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	5.7	0	10.4	1.8	4.1	0
<i>Corycaeus americanus</i>	21.1	16.8	18.3	2.2	2.5	0
<i>Corycaeus giesbrechti</i>	1.6	0	1.3	0	0	0
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	0	0	0	0

TABLE 6-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0.8	0	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	49.6	0	0	0
<i>Oithona decipiens</i>	0	0	1.3	0	0	0
<i>Oithona hebes</i>	0.8	6.3	18.3	0.9	9.0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	13.8	33.6	28.7	1.3	10.7	6.9
<i>Oithona plumifera</i>	4.1	0	7.8	1.3	0	10.4
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	1.3	0.4	0	0
<i>Oithona simplex</i>	0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	17.8	14.7	40.5	7.9	2.5	0
<i>Oncaea mediterranea</i>	0	2.1	0	0.9	0	0
<i>Oncaea venusta</i>	0.8	4.2	0	0	0	6.9
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	7.8	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0.9	2.5	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0.8	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0	0	0
Benthic harpacticoid females	122.3	60.9	30.0	41.9	36.1	3.5

TABLE 6-2 CONT. 'D

	6-13-65	8-13-65	12-11-65
Total No./m ³	177.8	965.8	467.0
<u>CALANOIDA</u>			
<i>Acartia danae</i>	3.1	1.7	0.9
<i>Acartia lilljeborgii</i>	0	0	0
<i>Acartia tonsa</i>	0	0	0
<i>Acrocalanus longicornis</i>	0	11.6	0
<i>Calanopia americana</i>	0	1.7	0
<i>Calanus tenuicornis</i>	0	0	0
<i>Calocalanus gracilis</i>	0	1.7	0
<i>Calocalanus pavo</i>	0	0	0
<i>Calocalanus pavoninus</i>	1.2	3.3	0
<i>Calocalanus styliremis</i>	0	15.0	0
<i>Calocalanus sp. 4</i>	0	0	0
<i>Candacia curta</i>	0	0	0
<i>Centropages hamatus</i>	0	0	0
<i>Centropages velificatus</i>	1.2	8.3	6.2
<i>Clausocalanus furcatus</i>	0.6	207.8	1.8
<i>Clausocalanus jobei</i>	0.6	1.7	0
<i>Clausocalanus mastigophorus</i>	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0
<i>Clausocalanus paululus</i>	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0

TABLE 6-2 CONT.'D

<i>Eucalanus pileatus</i>	7.4	16.6	1.8
<i>Ischnocalanus plumulosus</i>	0	1.7	0
<i>Labidocera aestiva</i>	0	0	0
<i>Labidocera scotti</i>	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0
<i>Lucicutia gaussae</i>	0	0	0
<i>Mecynocera clausii</i>	0	0	0
<i>Nannocalanus minor</i>	0	0	0
<i>Paracalanus aculeatus</i>	0	121.4	2.6
<i>Paracalanus crassirostris</i>	1.8	0	3.5
<i>Paracalanus denudatus</i>	0	0	0
<i>Paracalanus indicus</i>	53.5	106.4	193.3
<i>Paracalanus quasimodo</i>	30.2	24.9	15.9
<i>Pontella meadii</i>	0	0	0
<i>Stephos deichmannae</i>	0	0	0
<i>Temora stylifera</i>	1.2	8.3	0
<i>Temora turbinata</i>	0.6	15.0	40.6
<i>Undinula vulgaris</i>	0	1.7	0
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	1.7	0
<i>Corycaeus amazonicus</i>	6.2	0	2.6
<i>Corycaeus americanus</i>	6.2	3.3	14.1
<i>Corycaeus giesbrechti</i>	0.6	56.5	15.0
<i>Corycaeus latus</i>	0.6	1.7	0
<i>Corycaeus speciosus</i>	0	1.7	0
<i>Farranula gracilis</i>	2.5	73.1	0

TABLE 6-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	0	0
<i>Lubbockia squillimana</i>	0	0	0
<i>Oithona colcarva</i>	0	0	0
<i>Oithona decipiens</i>	0	0	0
<i>Oithona hebes</i>	0	1.7	0
<i>Oithona minuta</i>	0	0	0
<i>Oithona nana</i>	6.2	1.7	46.8
<i>Oithona plumifera</i>	16.6	78.1	0
<i>Oithona setigera</i>	0	0	0
<i>Oithona similis</i>	0	0	0
<i>Oithona simplex</i>	0	0	0
<i>Oithona tenuis</i>	0	0	0
<i>Oithona</i> sp. 1	0	0	0
<i>Oncaea conifera</i>	0	0	0
<i>Oncaea media</i>	22.8	6.6	72.4
<i>Oncaea mediterranea</i>	1.8	36.6	0
<i>Oncaea venusta</i>	5.5	128.0	0.9
<i>Saphirella tropica</i>	0	0	0
<i>Saphirella</i> sp.	0	0	0
<i>Sapphirina nigromaculata</i>	0.6	0	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0.6	3.3	0
<i>Clytemnestra scutellata</i>	0	0	0
<i>Macrosetella gracilis</i>	0	1.7	0
<i>Microsetella norvegica</i>	0	0	0
Benthic harpacticoid females	6.2	21.6	48.6

TABLE 6-3

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W62

	3-9-63	4-4-63	6-27-63	7-15-63	8-29-63	10-4-63
Total No./m ³	166.6	704.0	389.7	543.7	102.2	407.0
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	1.4	8.6	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	321.8	0.2	0
<i>Acartia tonsa</i>	2.1	2.8	0	20.0	0	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0.4	0	3.2	3.5
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0.4	0	0	15.3
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	1.6	0	0	0
<i>Calocalanus pavo</i>	0	1.4	1.2	0	6.8	1.4
<i>Calocalanus pavoninus</i>	0	0	5.7	0	0.9	0.7
<i>Calocalanus styliremis</i>	0	5.7	2.9	0	1.3	0
<i>Calocalanus sp.2</i>	0	0	0	0	0	0
<i>Calocalanus sp.3</i>	0.3	0	0	0	0	0
<i>Calocalanus sp.4</i>	0	0	0.4	0	0	0
<i>Candacia curta</i>	0	1.4	0.4	0	0	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	1.0	2.8	2.1	11.7	0.4	7.7
<i>Clausocalanus arcuicornis</i>	0	0	0.4	0	0	0

TABLE 6-3 CONT. 'D

<i>Clausocalanus furcatus</i>	1.4	41.2	30.4	0	24.7	41.7
<i>Clausocalanus jobei</i>	0.3	11.4	13.5	0	2.3	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0.3	0	0.4	0	0	0
<i>Clausocalanus paululus</i>	0	0	0.8	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	3.8	1.4	0.4	0	0	0
<i>Eucalanus hyalinus</i>	1.4	0	0	0	0	0
<i>Eucalanus monachus</i>	0.3	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	8.5	0	0	0.9	5.6
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0.3	0	0.4	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0.8	0	0	0
<i>Labidocera aestiva</i>	0	0	0	16.4	0	0
<i>Labidocera scotti</i>	0	0	0	2.3	0	0
<i>Lucicutia flavicornis</i>	2.1	0	1.6	0	0	0
<i>Lucicutia gaussae</i>	0.3	0	0.4	0	0	0
<i>Lucicutia paraclausi</i>	0	0	1.2	0	0	0
<i>Mecynocera clausii</i>	0	0	11.9	0	0	0
<i>Nannocalanus minor</i>	4.2	12.8	2.5	0	0	0.7
<i>Paracalanus aculeatus</i>	4.2	12.8	2.9	0	11.1	29.9
<i>Paracalanus crassirostris</i>	2.1	4.3	0	15.3	0	2.8
<i>Paracalanus denudatus</i>	0	0	0	0	0	0

TABLE 6-3 CONT.'D

<i>Paracalanus indicus</i>	16.3	79.6	14.8	2.3	2.1	48.7
<i>Paracalanus nudus</i>	0	0	2.1	0	0	0
<i>Paracalanus quasimodo</i>	15.7	82.5	0.4	5.9	14.7	92.5
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0.3	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0.3	0	0	0	0	0
<i>Temora stylifera</i>	0	7.1	1.6	0	0	2.1
<i>Temora turbinata</i>	2.8	5.7	20.5	77.5	2.3	23.7
<i>Temoropia mayumbaensis</i>	0	0	0	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	1.3	0
<i>Corycaeus amazonicus</i>	6.3	38.4	3.7	17.6	0.4	9.0
<i>Corycaeus americanus</i>	4.5	14.2	2.5	9.4	0.2	0
<i>Corycaeus clausi</i>	0.3	0	0.8	0	0	0
<i>Corycaeus furcifer</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	0	9.0	2.3	0.6	8.3

TABLE 6-3 CONT.'D

<i>Corycaeus latus</i>	0	0	0	0	0.6	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.3	1.4	0	0	0	0.7
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	29.9	0	10.7	0.7
<i>Farranula rostrata</i>	1.0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	3.5	10.0	2.5	0	0	4.2
<i>Lubbockia squillimana</i>	0	0	2.1	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	1.0	0	0.4	0	0	0
<i>Oithona hebes</i>	1.4	1.4	0	0	0	0
<i>Oithona minuta</i>	0	0	0	5.9	0	0
<i>Oithona nana</i>	1.0	1.4	0	9.4	0.6	8.3
<i>Oithona plumifera</i>	5.2	18.5	43.9	0	10.2	24.3
<i>Oithona setigera</i>	0.3	0	0	0	0	0
<i>Oithona similis</i>	1.0	1.4	0	0	0	0
<i>Oithona simplex</i>	0	0	0	1.2	0	0.7
<i>Oithona tenuis</i>	0.3	1.4	1.6	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	2.4	0	0	0	0	0
<i>Oithona sp.2</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0.3	1.4	2.1	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	22.6	85.3	87.0	16.4	1.1	0
<i>Oncaea mediterranea</i>	3.5	27.0	23.4	0	0.4	0

TABLE 6-3 CONT.'D

<i>Oncaea venusta</i>	1.0	38.4	36.9	0	3.6	4.9
<i>Oncaea similis</i>	0.3	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina intestinata</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.7	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	1.4	0.8	0	0	0
<i>Clytemnestra scutellata</i>	0	0	9.4	0	0	0
<i>Macrosetella gracilis</i>	1.0	1.4	0	0	0	0.7
<i>Microsetella rosea</i>	0	0	0	0	0	0
<i>Miracia minor</i>	0.3	0	0	0	0	0
Benthic harpacticoid females	48.0	177.8	2.5	8.2	1.3	68.9

TABLE 6-3 CONT. 'D

	11-3-63	12-2-63	12-21-63	1-29-64	3-19-64	4-16-64
Total No./m ³	248.2	176.3	417.9	319.1	870.9	475.5
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.5	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0.2	0	5.0	4.0	1.7
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	1.0	0.2	1.4	0.3	0	0
<i>Aetideus acutus</i>	0	0	0.5	0	0	0
<i>Calanopia americana</i>	12.3	3.1	7.5	0	0	0
<i>Calanus tenuicornis</i>	0	0	0	0.3	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.1	0	0	0.3	0	0
<i>Calocalanus pavoninus</i>	0	0.2	0	0.9	0	0
<i>Calocalanus styliremis</i>	0	0.2	1.4	0.6	0	0.6
<i>Calocalanus sp.2</i>	0	0	0	0	0	0
<i>Calocalanus sp.3</i>	0	0	0	0.3	0	1.1
<i>Calocalanus sp.4</i>	0	0	0.5	1.6	0	0
<i>Candacia curta</i>	0	0	0	0	2.6	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0.9	0	0
<i>Centropages velificatus</i>	3.8	0.2	2.4	0	0	0.6
<i>Clausocalanus arcuicornis</i>	0	0	0	0.3	5.3	0

TABLE 6-3 CONT. 'D

<i>Clausocalanus furcatus</i>	3.7	2.0	47.1	8.8	69.9	24.1
<i>Clausocalanus jobei</i>	0	0	0.9	1.3	26.4	23.0
<i>Clausocalanus mastigophorus</i>	0	0	0	0.3	0	1.1
<i>Clausocalanus parapergens</i>	0	0	0.5	0.3	5.3	2.2
<i>Clausocalanus paululus</i>	0	0	0.9	1.9	0	0
<i>Clausocalanus pergens</i>	0	0	0	6.0	5.3	0
<i>Ctenocalanus vanus</i>	0	0	0.5	6.0	11.9	2.8
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	3.1	2.0	2.8	0.9	4.0	8.4
<i>Euchaeta marina</i>	0	0	0	0.3	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0.3	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0.9	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0.4	0	4.1	0	0.6
<i>Lucicutia gaussae</i>	0.1	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0.9	0.6	0	0
<i>Nannocalanus minor</i>	0	0	0.5	1.3	1.3	0
<i>Paracalanus aculeatus</i>	19.7	4.7	62.6	4.1	2.6	2.2
<i>Paracalanus crassirostris</i>	0.8	0.4	0.5	5.0	1.3	2.2
<i>Paracalanus denudatus</i>	0	0	0	0.3	0	0

TABLE 6-3 CONT. 'D

<i>Paracalanus indicus</i>	104.1	43.9	107.8	56.5	66.0	60.6
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	5.1	2.0	40.0	95.1	101.6	212.8
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	8.8	0	0
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0.3	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	1.3	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0.9	0	13.8	0	0
<i>Temora stylifera</i>	0.1	0	0	0	1.3	0
<i>Temora turbinata</i>	2.0	1.6	2.8	0.9	2.6	1.1
<i>Temoropia mayumbaensis</i>	0	0	0	0.3	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0.1	0	0	0	0	0
<i>Corycaeus amazonicus</i>	19.3	20.4	5.6	3.1	9.2	4.5
<i>Corycaeus americanus</i>	2.4	10.7	10.4	5.6	59.4	6.2
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus furcifer</i>	0	0	0	0.3	0	0
<i>Corycaeus giesbrechti</i>	4.7	3.6	8.9	0	0	1.1

TABLE 6-3 CONT.'D

<i>Corycaeus latus</i>	0	0.2	0.9	0	0	0
<i>Corycaeus limbatus</i>	0	0	0.5	0.3	0	0
<i>Corycaeus speciosus</i>	0	0.2	0	0	0	0
<i>Corycaeus typicus</i>	0	0	0	0.3	0	0
<i>Farranula gracilis</i>	0.1	0	0.5	0.3	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0.3	0.4	0.9	0	5.3	3.4
<i>Lubbockia squillimana</i>	0	0	0	1.3	0	0.6
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0.9	0	0
<i>Oithona hebes</i>	0.3	0.4	1.4	0	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	6.9	1.8	0	4.4	2.6	0
<i>Oithona plumifera</i>	29.6	18.1	21.2	6.0	0	1.7
<i>Oithona setigera</i>	0	0	0	2.5	0	0
<i>Oithona similis</i>	0	0	0	3.1	0	0
<i>Oithona simplex</i>	1.0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0.9	0	0
<i>Oithona sp.1</i>	0	0.2	0	2.8	0	0
<i>Oithona sp.2</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	1.3	0	0
<i>Oncaea dentipes</i>	0	0	0	0.3	0	0
<i>Oncaea media</i>	3.5	26.4	24.0	30.4	353.6	76.9
<i>Oncaea mediterranea</i>	0.3	0	2.8	4.1	1.3	6.7

TABLE 6-3 CONT.'D

<i>Oncaea venusta</i>	3.3	2.7	13.2	3.5	7.9	11.2
<i>Oncaea similis</i>	0	0	0	1.3	0	0
<i>Saphirella tropica</i>	0.3	2.2	0	0	0	0
<i>Saphirella</i> sp.	0	0	0.5	0	0	0
<i>Sapphirina intestinata</i>	0	0	0	0	0	0.6
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.6	3.4	8.9	0.3	2.6	0.6
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.6
<i>Macrosetella gracilis</i>	0	0	2.4	0.3	1.3	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
<i>Miracia minor</i>	0	0	0	0	0	0
Benthic harpacticoid females	19.5	23.3	32.9	16.3	114.8	16.3

TABLE 6-3 CONT. 'D

	5-24-64	6-26-64	7-17-64	8-31-64	9-26-64	10-29-64
Total No./m ³	1873.9	231.1	341.3	492.9	425.7	556.1
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	1.8	0	0	0
<i>Acartia lilljeborgii</i>	0	1.8	0	0	2.2	0
<i>Acartia tonsa</i>	49.5	7.1	0	0	0	0
<i>Acrocalanus andersoni</i>	0	0	0.6	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	1.5	1.5	6.6
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0	0	11.9	15.4
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	3.4	0	3.6	4.1	0.7	2.2
<i>Calocalanus pavoninus</i>	3.4	0	5.3	1.5	0	1.1
<i>Calocalanus styliremis</i>	0	0	3.6	0.5	0	2.2
<i>Calocalanus sp.2</i>	0	0	1.2	0	0	0
<i>Calocalanus sp.3</i>	0	0	0	0	0	0
<i>Calocalanus sp.4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	1.7	0	0	0.5	0	1.1
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	18.8	6.2	1.8	1.5	27.5	3.3
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0

TABLE 6-3 CONT. 'D

<i>Clausocalanus furcatus</i>	104.1	0.4	52.7	196.1	2.2	19.9
<i>Clausocalanus jobei</i>	223.6	0	53.9	13.9	0	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	2.4	0.5	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	23.9	1.8	3.0	4.6	4.5	23.2
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	3.0	0	0	0
<i>Labidocera aestiva</i>	10.2	0.4	0	0	0	0
<i>Labidocera scotti</i>	0	0.4	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	3.4	0	0.6	0	0	1.1
<i>Mecynocera clausii</i>	0	0	7.7	3.6	0	0
<i>Nannocalanus minor</i>	6.8	0	0	2.1	0	0
<i>Paracalanus aculeatus</i>	1.7	0	11.3	8.3	9.7	75.0
<i>Paracalanus crassirostris</i>	6.8	27.1	0.6	0	5.2	8.8
<i>Paracalanus denudatus</i>	0	0	3.0	1.0	0	0

TABLE 6-3 CONT.'D

<i>Paracalanus indicus</i>	481.3	17.8	4.7	3.6	55.1	47.4
<i>Paracalanus nudus</i>	0	0	0.6	0	0	0
<i>Paracalanus quasimodo</i>	448.9	12.9	0	21.2	133.2	13.2
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	1.7	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0.6	1.5	6.0	0
<i>Temora turbinata</i>	139.9	15.1	10.1	8.3	14.9	21.0
<i>Temoropia mayumbaensis</i>	0	0	0	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	27.3	9.8	0.6	0	70.7	26.5
<i>Corycaeus americanus</i>	32.4	0.9	0	0	7.4	1.1
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus furcifer</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	1.7	0	2.4	2.6	14.1	50.8

TABLE 6-3 CONT. 'D

<i>Corycaeus latus</i>	0	0	0.6	1.5	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0.5	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	19.0	64.5	5.2	2.2
<i>Farranula rostrata</i>	0	0	4.7	1.5	0	0
<i>Lichomolgus sp.1</i>	6.8	0	3.6	2.1	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0.9	0	0	0	0
<i>Oithona decipiens</i>	0	0	1.2	0	0	0
<i>Oithona hebes</i>	0	0	2.4	0	12.7	1.1
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	15.4	108.9	0	0	0	49.7
<i>Oithona plumifera</i>	3.4	0.9	14.2	8.3	11.2	60.7
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	15.4	0	0	1.0	0	1.1
<i>Oithona simplex</i>	0	0	0.6	0	1.5	1.1
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oithona sp.2</i>	29.0	0	0	0	0	0
<i>Oncaea conifera</i>	1.7	0	0.6	4.1	0	2.2
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	18.8	0.4	53.3	47.5	0	14.3
<i>Oncaea mediterranea</i>	15.4	0	30.2	13.4	1.5	0

TABLE 6-3 CONT.'D

<i>Oncaea venusta</i>	44.4	0	28.4	63.0	0	29.8
<i>Oncaea similis</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina intestinata</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	1.1
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	1.7	0	1.8	0.5	0.7	0
<i>Clytemnestra scutellata</i>	0	0	0	0.5	0	0
<i>Macrosetella gracilis</i>	0	0	0.6	0	0.7	0
<i>Microsetella rosea</i>	0	0	0	1.0	0	0
<i>Miracia minor</i>	0	0	0	0	0	0
Benthic harpacticoid females	131.4	18.2	5.3	6.2	25.3	72.8

TABLE 6-3 CONT. 'D

	11-24-64	12-17-64	1-8-65	2-28-65	3-22-65	4-24-65
Total No./m ³	804.2	325.3	634.8	127.7	145.5	171.5
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0.9	0.3
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0	3.7	0.3	0.3	2.8
<i>Acrocalanus andersoni</i>	0	0	1.5	0	0.6	0
<i>Acrocalanus longicornis</i>	6.0	1.7	0.7	0.3	0	0
<i>Aetideus acutus</i>	0	0	0	0	0.3	0
<i>Calanopia americana</i>	65.2	8.1	10.4	0	0.6	0.3
<i>Calanus tenuicornis</i>	0	0	0.7	0	0	0
<i>Calocalanus gracilis</i>	0	0.3	0	0	0.3	0
<i>Calocalanus pavo</i>	1.2	0.3	0	0	0.9	0
<i>Calocalanus pavoninus</i>	1.2	0.3	3.0	0	0.6	0
<i>Calocalanus styliremis</i>	4.8	3.4	5.2	1.0	1.2	0
<i>Calocalanus sp.2</i>	0	0.3	0	0	0	0
<i>Calocalanus sp.3</i>	0	0	0.7	0	0	0
<i>Calocalanus sp.4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	2.2	0.6	0	0.3
<i>Centropages velificatus</i>	43.5	3.4	6.0	0.3	0	1.4
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0

TABLE 6-3 CONT.'D

<i>Clausocalanus furcatus</i>	99.0	21.6	18.6	1.9	7.2	0.3
<i>Clausocalanus jobei</i>	1.2	1.1	4.5	0.6	5.4	0.3
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	1.5	0	0	0
<i>Clausocalanus paululus</i>	0	0.3	0.7	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0.6	2.2	0	6.3	0
<i>Eucalanus hyalinus</i>	0	0	0	0	1.2	0
<i>Eucalanus monachus</i>	0	0	0	0	0.6	0
<i>Eucalanus pileatus</i>	14.5	1.4	3.7	1.9	3.0	1.0
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0.3	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0.7	0.3	0.9	0
<i>Labidocera aestiva</i>	0	0	0	0	0	1.0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	2.4	0	3.7	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	1.2	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0.7	0	0	0
<i>Nannocalanus minor</i>	1.2	0	2.2	0.6	3.6	0
<i>Paracalanus aculeatus</i>	83.3	13.2	26.8	2.3	9.7	1.0
<i>Paracalanus crassirostris</i>	1.2	0.3	78.1	7.1	0	13.6
<i>Paracalanus denudatus</i>	0	0.3	1.5	0	0.3	0

TABLE 6-3 CONT. 'D

<i>Paracalanus indicus</i>	130.4	83.6	107.9	19.7	22.6	74.4
<i>Paracalanus nudus</i>	0	0.3	0.7	0	0.3	0
<i>Paracalanus quasimodo</i>	29.0	29.8	123.5	59.5	8.5	23.7
<i>Paracandacia simplex</i>	0	0	0.7	0	0.3	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0.7	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0.3	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0.3	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	2.4	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0.3	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	1.2	3.6	0.7	2.6	2.1	1.4
<i>Temora stylifera</i>	3.6	0.6	0.7	0	2.1	0
<i>Temora turbinata</i>	6.0	3.9	13.4	1.3	1.8	2.4
<i>Temoropia mayumbaensis</i>	0	0	0	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	16.9	5.1	10.4	1.0	2.1	2.4
<i>Corycaeus americanus</i>	12.1	2.2	3.7	3.6	1.8	2.4
<i>Corycaeus clausi</i>	0	0	0.7	0	0.6	0
<i>Corycaeus furcifer</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	36.2	2.5	2.2	1.0	1.8	0

TABLE 6-3 CONT. 'D

<i>Corycaeus latus</i>	0	0	0	0.3	0.6	0
<i>Corycaeus limbatus</i>	0	0	0.7	0	0	0
<i>Corycaeus speciosus</i>	1.2	0	0	0	0.9	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	3.6	1.4	0	0	0.6	0
<i>Farranula rostrata</i>	0	1.1	0	0	1.2	0.3
<i>Lichomolgus sp.1</i>	0	2.2	0.7	0	5.1	0
<i>Lubbockia squillimana</i>	0	0.3	0.7	0	0.6	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0.3	0	0	0	0
<i>Oithona hebes</i>	2.4	0.6	0	2.9	0	3.5
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0	2.8	0	1.6	0.6	11.1
<i>Oithona plumifera</i>	66.4	30.6	16.4	1.6	4.8	1.7
<i>Oithona setigera</i>	1.2	0.3	1.5	0	0.6	0
<i>Oithona similis</i>	0	0	0	0	0	0.3
<i>Oithona simplex</i>	0	0.3	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oithona sp.2</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	3.6	1.1	1.5	0	4.8	0
<i>Oncaea dentipes</i>	0	0.3	0	0	0	0
<i>Oncaea media</i>	29.0	56.4	69.2	7.4	10.0	5.6
<i>Oncaea mediterranea</i>	3.6	13.5	44.7	0.6	13.6	0

TABLE 6-3 CONT.'D

Oncaea venusta	105.1	14.6	37.2	0	8.5	0
Oncaea similis	0	0.3	0	0	0	0
Saphirella tropica	0	0.3	0	0	0	0
Saphirella sp.	0	0.3	0	0	0	0
Sapphirina intestinata	0	0	0	0	0	0
Sapphirina nigromaculata	3.6	0.3	0	0	0	0
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	3.6	2.5	3.0	0.3	0.9	0.3
Clytemnestra scutellata	0	0.3	0	0	0	0
Macrosetella gracilis	1.2	1.4	3.0	0	0	0
Microsetella rosea	0	0	0	0	0	0
Miracia minor	0	0	0	0	0	0
Benthic harpacticoid females	18.1	6.2	11.2	6.1	1.5	19.1

TABLE 6-3 CONT. 'D

	5-30-65	6-13-65	8-13-65
Total No./m ³	222.9	483.4	88.9
<u>CALANOIDA</u>			
<i>Acartia danae</i>	1.1	9.1	0.2
<i>Acartia lilljeborgii</i>	0	2.3	0
<i>Acartia tonsa</i>	3.2	1.1	0
<i>Acrocalanus andersoni</i>	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0.3
<i>Aetideus acutus</i>	0	0	0
<i>Calanopia americana</i>	0	1.1	0
<i>Calanus tenuicornis</i>	0	0	0
<i>Calocalanus gracilis</i>	0	0	0
<i>Calocalanus pavo</i>	0	1.1	4.1
<i>Calocalanus pavoninus</i>	1.1	3.4	6.3
<i>Calocalanus styliremis</i>	0	1.1	1.6
<i>Calocalanus sp.2</i>	0	0	0
<i>Calocalanus sp.3</i>	0	0	0
<i>Calocalanus sp.4</i>	0	0	0
<i>Candacia curta</i>	0	1.1	0
<i>Candacia pachydactyla</i>	0	0	0.2
<i>Centropages hamatus</i>	0	0	0
<i>Centropages velificatus</i>	0	1.1	0.2
<i>Clausocalanus arcuicornis</i>	0	0	0

TABLE 6-3 CONT. 'D

<i>Clausocalanus furcatus</i>	2.7	2.3	7.2
<i>Clausocalanus jobei</i>	1.6	6.9	0.1
<i>Clausocalanus mastigophorus</i>	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0
<i>Clausocalanus paululus</i>	0	0	0
<i>Clausocalanus pergens</i>	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0
<i>Eucalanus monachus</i>	0	0	0
<i>Eucalanus pileatus</i>	16.5	4.6	2.6
<i>Euchaeta marina</i>	0	0	0.3
<i>Euchaeta paraconcinna</i>	0	0	0
<i>Haloptilus longicornis</i>	0	1.1	0
<i>Heterorhabdus spinifer</i>	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0
<i>Labidocera aestiva</i>	0	0	0
<i>Labidocera scotti</i>	0	0	0
<i>Lucicutia flavicornis</i>	0.5	0	0
<i>Lucicutia gaussae</i>	0	0	0
<i>Lucicutia paraclausi</i>	0.5	3.4	0
<i>Mecynocera clausii</i>	0	0	0.1
<i>Nannocalanus minor</i>	5.9	0	0.6
<i>Paracalanus aculeatus</i>	9.6	19.4	7.2
<i>Paracalanus crassirostris</i>	1.1	1.1	0.1
<i>Paracalanus denudatus</i>	0	0	0

TABLE 6-3 CONT. 'D

<i>Paracalanus indicus</i>	89.1	106.3	6.1
<i>Paracalanus nudus</i>	0	0	0
<i>Paracalanus quasimodo</i>	40.5	112.0	8.0
<i>Paracandacia simplex</i>	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0
<i>Pleuromamma piseki</i>	0	0	0
<i>Pontella securifer</i>	0	0	0.1
<i>Rhincalanus cornutus</i>	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0
<i>Scolecithrix danae</i>	0	0	0
<i>Stephos deichmannae</i>	0	0	0
<i>Temora stylifera</i>	2.7	4.6	4.6
<i>Temora turbinata</i>	9.6	17.1	0.1
<i>Temoropia mayumbaensis</i>	0	0	0
<i>Undinula vulgaris</i>	0	0	1.0
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	0	0.1
<i>Corycaeus amazonicus</i>	3.7	28.6	0
<i>Corycaeus americanus</i>	4.3	10.3	0
<i>Corycaeus clausi</i>	0	0	0
<i>Corycaeus furcifer</i>	0	0	0
<i>Corycaeus giesbrechti</i>	1.1	2.3	0.3

TABLE 6-3 CONT. 'D

<i>Corycaeus latus</i>	0	1.1	1.7
<i>Corycaeus limbatus</i>	0	0	0
<i>Corycaeus speciosus</i>	0	0	0.3
<i>Corycaeus typicus</i>	0	0	0
<i>Farranula gracilis</i>	0	3.4	10.3
<i>Farranula rostrata</i>	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0
<i>Lubbockia squillimana</i>	0.5	0	0.1
<i>Oithona colcarva</i>	0	0	0
<i>Oithona decipiens</i>	0	0	0
<i>Oithona hebes</i>	0	2.3	0.1
<i>Oithona minuta</i>	0	0	0
<i>Oithona nana</i>	1.1	2.3	0.1
<i>Oithona plumifera</i>	0.5	25.1	13.2
<i>Oithona setigera</i>	0	0	0
<i>Oithona similis</i>	0	0	0
<i>Oithona simplex</i>	0	0	0
<i>Oithona tenuis</i>	0	0	0
<i>Oithona vivida</i>	0	0	0
<i>Oithona sp.1</i>	0	4.6	0
<i>Oithona sp.2</i>	0	0	0
<i>Oncaea conifera</i>	0	0	0
<i>Oncaea dentipes</i>	0	0	0
<i>Oncaea media</i>	5.3	25.1	0.4
<i>Oncaea mediterranea</i>	3.2	33.1	0

TABLE 6-3 CONT.'D

Oncaea venusta	2.1	0	10.5
Oncaea similis	0	0	0
Saphirella tropica	0.5	0	0
Saphirella sp.	0	0	0
Sapphirina intestinata	0	0	0
Sapphirina nigromaculata	0	0	0
<u>HARPACTICOIDA</u>			
Clytemnestra rostrata	1.1	1.1	0
Clytemnestra scutellata	0	0	0
Macrosetella gracilis	0	0	0.7
Microsetella rosea	0	0	0
Miracia minor	0	0	0
Benthic harpacticoid females	13.9	43.4	0

TABLE 6-4

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W13

	4-6-63	5-2-63	5-22-63	6-27-63	7-16-63	8-28-63
Total No./m ³	517.8	537.3	238.7	107.5	1334.1	161.6
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0.2	1.8	1.6
<i>Acartia lilljeborgii</i>	0	0	0	16.3	7.2	0
<i>Acartia tonsa</i>	273.5	74.1	1.3	22.2	1.8	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0	1.6	12.6	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0.8
<i>Calocalanus pavoninus</i>	0	0	0	0.5	1.8	0
<i>Calocalanus styliremis</i>	0	0	0	0	5.4	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	0.5	2.1	21.6	19.5
<i>Clausocalanus furcatus</i>	0	0	0.3	0.3	0	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0	0.5	2.4	12.6	0
<i>Ischnocalanus plumulosis</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	3.5	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0.2	3.6	3.9
<i>Lucicutia gaussae</i>	0	0	0	0	0	0

TABLE 6-4 CONT.'D

<i>Mecynocera clausii</i>	0	0	0	0.2	0	0
<i>Nannocalanus minor</i>	0	0	0.3	0	0	0
<i>Paracalanus aculeatus</i>	0	0	0	0	10.8	0.8
<i>Paracalanus crassirostris</i>	143.1	114.5	2.6	6.1	10.8	16.4
<i>Paracalanus indicus</i>	11.6	8.4	0	1.9	275.8	19.5
<i>Paracalanus quasimodo</i>	34.9	96.0	0	5.9	19.8	9.4
<i>Pontellopsis villosa</i>	0	0	0	0.6	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0.2	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	5.8	75.8	0	0.8	290.3	6.2
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	0	5.1	7.0	2.7	28.8	0
<i>Corycaeus americanus</i>	1.2	0	5.2	1.3	10.8	1.6
<i>Corycaeus giesbrechti</i>	0	0	0	0.3	14.4	3.9
<i>Corycaeus speciosus</i>	0	0	0	0.2	0	0
<i>Farranula gracilis</i>	0	0	0	0.2	1.8	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0
<i>Lichomolgus sp.</i>	0	0	0	0	3.6	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	24.4	124.6	26.3	29.3	91.9	50.7
<i>Oithona plumifera</i>	1.2	0	0	2.7	1.8	0
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	17.5	0	0	0	0	0
<i>Oithona simplex</i>	0	0	0.5	2.4	12.6	12.5

TABLE 6-4 CONT.'D

<i>Oncaea media</i>	0	0	0.3	1.1	470.5	2.3
<i>Oncaea mediterranea</i>	0	0	0	0.2	0	0
<i>Oncaea venusta</i>	0	3.4	0	0	0	0
<i>Saphirella sp.</i>	0	1.7	0	0.2	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	1.2	0	0.5	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0.2	0	0
Benthic harpacticoid females	0	33.7	193.5	5.4	21.6	12.5

TABLE 6-4 CONT. 'D

	10-5-63	11-4-63	12-1-63	1-30-64	2-19-64	3-21-64
Total No./m ³	507.0	197.4	229.6	245.8	43.7	223.6
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	5.0	18.1	8.2	0	0	0
<i>Acartia tonsa</i>	0	0.7	2.6	59.9	2.0	16.0
<i>Acrocalanus andersoni</i>	1.7	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0.4	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	41.5	5.1	10.9
<i>Centropages velificatus</i>	6.6	2.6	1.3	0	0	0
<i>Clausocalanus furcatus</i>	1.7	0	0	0	0	0
<i>Clausocalanus jobei</i>	0	0	0.9	0	0	0
<i>Eucalanus pileatus</i>	8.3	2.8	8.6	0	0	0
<i>Ischnocalanus plumulosis</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0.4	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0.7	0	0

TABLE 6-4 CONT.'D

<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	5.0	1.2	2.2	0	0	0
<i>Paracalanus crassirostris</i>	139.6	49.9	2.2	83.1	21.4	153.7
<i>Paracalanus indicus</i>	5.0	14.6	14.3	1.4	0.3	0.4
<i>Paracalanus quasimodo</i>	29.9	7.3	18.6	6.8	1.0	35.8
<i>Pontellopsis villosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0.2	0
<i>Temora turbinata</i>	23.3	8.9	8.2	0.7	0	0
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	10.0	16.5	13.4	0	0	0
<i>Corycaeus americanus</i>	1.7	4.9	46.7	13.6	0.9	2.1
<i>Corycaeus giesbrechti</i>	10.0	3.3	1.3	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0.2	0
<i>Farranula gracilis</i>	0	0	0	0	0	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0.8
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	8.3	0	0	3.4	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	227.7	18.8	84.3	2.0	7.0	1.7
<i>Oithona plumifera</i>	0	1.2	1.3	0	0	0.4
<i>Oithona setigera</i>	0	0	0	0	0.2	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	11.6	0	0	0	0	0

TABLE 6-4 CONT.'D

Oncaea media	0	0	3.9	4.1	0	0.8
Oncaea mediterranea	0	0	0	0	0	0
Oncaea venusta	0	0.2	0	0	0	0
Saphirella sp.	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0	0	0	0	0	0
Macrosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	11.6	46.4	10.8	28.6	5.4	0.8

TABLE 6-4 CONT.'D

	4-18-64	5-25-64	6-27-64	7-18-64	9-1-64	10-31-64
Total No./m ³	677.5	5796.9	252.8	168.6	149.8	1505.3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	1.4	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0.5	0	75.1
<i>Acartia tonsa</i>	648.8	5120.0	3.7	0.5	1.3	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0.9	0	0.6	0
<i>Calanopia americana</i>	0	0	0	0	1.3	0
<i>Calocalanus gracilis</i>	0	0	0.5	0	0	0
<i>Calocalanus pavo</i>	0	0	2.3	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0.5	0	0	0
<i>Calocalanus styliremis</i>	0	0	0.5	0	0	0
<i>Candacia curta</i>	0	0	0.5	0	0	0
<i>Centropages hamatus</i>	3.3	0	0	0	0	0
<i>Centropages velificatus</i>	0	34.7	12.3	8.1	1.3	6.8
<i>Clausocalanus furcatus</i>	0	0	109.7	1.5	0.6	0
<i>Clausocalanus jobei</i>	0	0	16.9	0	0	0
<i>Eucalanus pileatus</i>	0	0	1.4	0	3.2	0
<i>Ischnocalanus plumulosis</i>	0	0	0.5	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	3.4
<i>Labidocera scotti</i>	0	0	0	0	0.6	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0

TABLE 6-4 CONT.'D

<i>Mecynocera clausii</i>	0	0	0.5	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0	8.7	5.5	0.5	0	0
<i>Paracalanus crassirostris</i>	18.8	26.0	0	1.0	9.0	51.2
<i>Paracalanus indicus</i>	0	156.2	18.3	8.1	34.6	112.6
<i>Paracalanus quasimodo</i>	4.4	329.8	6.4	4.6	9.6	51.2
<i>Pontellopsis villosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0.5	0	0	0
<i>Temora stylifera</i>	0	0	0.5	0	0	0
<i>Temora turbinata</i>	1.1	0	0.9	27.4	4.5	262.8
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	0	0	0	6.6	7.0	64.9
<i>Corycaeus americanus</i>	0	0	0.5	9.1	2.6	61.4
<i>Corycaeus giesbrechti</i>	0	0	2.3	4.6	1.3	23.9
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	5.5	1.0	2.6	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0	0	0.5	41.1	13.4	348.2
<i>Oithona plumifera</i>	0	0	19.7	1.5	0	0
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	0	8.7	0	0	5.1	3.4

TABLE 6-4 CONT. 'D

<i>Oncaea media</i>	0	0	21.5	0	17.9	0
<i>Oncaea mediterranea</i>	0	0	0.5	1.0	0	0
<i>Oncaea venusta</i>	0	0	5.5	1.0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0.5	0	0.6	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	1.1	112.8	13.3	50.3	32.6	440.3

TABLE 6-4 CONT. 'D

	12-18-64	3-1-65	4-25-65	5-29-65	6-14-65	8-14-65
Total No./m ³	641.5	1323.8	223.2	187.4	138.2	62.6
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0.3	2.3
<i>Acartia tonsa</i>	2.2	8.0	6.4	84.6	16.0	2.3
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	1.5	0	6.4	0	0.3	1.7
<i>Clausocalanus furcatus</i>	0	0	4.8	0	0	0
<i>Clausocalanus jobei</i>	0	265.3	0	0	0	0
<i>Eucalanus pileatus</i>	3.7	0	0	0	5.4	0.3
<i>Ischnocalanus plumulosis</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	2.7	0	2.3	0.3	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0

TABLE 6-4 CONT. 'D

<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0	0	0.8	0	0.3	0.3
<i>Paracalanus crassirostris</i>	37.4	936.5	16.0	76.6	33.4	1.4
<i>Paracalanus indicus</i>	232.8	31.8	64.0	4.6	29.3	7.1
<i>Paracalanus quasimodo</i>	159.4	13.3	28.0	4.6	28.6	2.9
<i>Pontellopsis villosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	26.9	5.3	7.2	0	0	1.1
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	3.0	0	5.6	1.1	0.3	2.3
<i>Corycaeus americanus</i>	9.0	0	2.4	1.1	0.3	0.6
<i>Corycaeus giesbrechti</i>	0	0	2.4	1.1	0	0.3
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranulus gracilis</i>	0	0	0	0	0	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	2.7	0	2.3	2.4	0
<i>Oithona minuta</i>	0	0	0	0	0	1.4
<i>Oithona nana</i>	88.3	47.8	1.6	6.9	17.4	32.9
<i>Oithona plumifera</i>	0	0	3.2	0	0	2.6
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0.8	0	0	0
<i>Oithona simplex</i>	0	0	0	0	0	0.9

TABLE 6-4 CONT.'D

<i>Oncaea media</i>	3.7	0	4.0	0	0	0
<i>Oncaea mediterranea</i>	0	0	0.8	0	0	0
<i>Oncaea venusta</i>	0.7	0	2.4	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.7	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	71.9	10.6	66.4	2.3	3.7	2.3

TABLE 6-4 CONT. 'D

	9-12-65	12-12-65
Total No./m ³	332.5	1283.2
<u>CALANOIDA</u>		
<i>Acartia danae</i>	0	0
<i>Acartia lilljeborgii</i>	7.9	12.8
<i>Acartia tonsa</i>	0.5	214.4
<i>Acrocalanus andersoni</i>	0	0
<i>Acrocalanus longicornis</i>	0.5	0
<i>Calanopia americana</i>	6.5	0
<i>Calocalanus gracilis</i>	0	0
<i>Calocalanus pavo</i>	0	0
<i>Calocalanus pavoninus</i>	0	0
<i>Calocalanus styliremis</i>	0	0
<i>Candacia curta</i>	0	0
<i>Centropages hamatus</i>	0	3.2
<i>Centropages velificatus</i>	23.2	9.6
<i>Clausocalanus furcatus</i>	0.5	0
<i>Clausocalanus jobei</i>	0	0
<i>Eucalanus pileatus</i>	5.6	3.2
<i>Ischnocalanus plumulosis</i>	0	0
<i>Labidocera aestiva</i>	0	0
<i>Labidocera scotti</i>	8.3	0
<i>Lucicutia gaussae</i>	0	0

TABLE 6-4 CONT. 'D

<i>Mecynocera clausii</i>	0	0
<i>Nannocalanus minor</i>	0	0
<i>Paracalanus aculeatus</i>	4.2	0
<i>Paracalanus crassirostris</i>	11.6	108.8
<i>Paracalanus indicus</i>	64.5	144.0
<i>Paracalanus quasimodo</i>	115.5	57.6
<i>Pontellopsis villosa</i>	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0
<i>Scolecithrix danae</i>	0	0
<i>Temora stylifera</i>	0	0
<i>Temora turbinata</i>	19.9	217.6
<u>CYCLOPOIDA</u>		
<i>Corycaeus amazonicus</i>	23.2	6.4
<i>Corycaeus americanus</i>	2.8	28.8
<i>Corycaeus giesbrechti</i>	14.4	0
<i>Corycaeus speciosus</i>	0	0
<i>Farranula gracilis</i>	1.4	0
<i>Lichomolgus sp. 2</i>	0	0
<i>Lichomolgus sp.</i>	0	0
<i>Oithona colcarva</i>	0	25.6
<i>Oithona minuta</i>	0	0
<i>Oithona nana</i>	14.8	150.4
<i>Oithona plumifera</i>	6.0	0
<i>Oithona setigera</i>	0	0
<i>Oithona similis</i>	0	0
<i>Oithona simplex</i>	0	0

TABLE 6-4 CONT. 'D

Oncaea media	0.9	35.2
Oncaea mediterranea	0	0
Oncaea venusta	0	0
Saphirella sp.	0	0
<u>HARPACTICOIDA</u>		
Clytemnestra rostrata	0	0
Macrosetella gracilis	0	0
Benthic harpacticoid females	0.5	265.6

TABLE 6-5

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W14

	4-4-63	5-2-63	5-21-63	6-26-63	7-16-63	8-30-63
Total No./m ³	314.5	239.3	247.2	500.4	680.7	110.4
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0.7	0.9	1.5	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	1.2	0
<i>Acartia tonsa</i>	82.7	23.7	0.9	0	0	0
<i>Acrocalanus andersoni</i>	0	0	0	0	1.2	0
<i>Acrocalanus longicornis</i>	0	0	0	1.5	2.4	1.6
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0.9	0	0	0
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	1.5	0	0
<i>Calocalanus pavo</i>	0	0.7	0	0	3.6	1.0
<i>Calocalanus pavoninus</i>	0	1.4	0	10.2	1.2	0
<i>Calocalanus styliremis</i>	0	0.7	0.9	0.7	3.6	0.3
<i>Calocalanus sp. 2</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0.9	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	1.8	0	4.8	0
<i>Clausocalanus furcatus</i>	2.3	4.9	17.5	84.4	401.9	35.8
<i>Clausocalanus jobei</i>	0.8	0	8.8	0	6.0	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0	14.0	1.5	2.4	4.8

TABLE 6-5 CONT.'D

<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0.7	0	0
<i>Labidocera aestiva</i>	0.8	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0.7	0	0.7	0	0
<i>Nannocalanus minor</i>	0	0	0.9	0	2.4	0
<i>Paracalanus aculeatus</i>	0	0	6.1	29.1	61.0	19.5
<i>Paracalanus crassirostris</i>	6.2	0.7	3.5	0.7	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	62.4	9.0	9.6	196.4	6.0	8.6
<i>Paracalanus nudus</i>	0	0	0.9	0.7	0	0
<i>Paracalanus quasimodo</i>	82.0	78.6	71.9	10.2	10.8	6.1
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	1.8	0.7	1.2	0
<i>Temora turbinata</i>	21.1	8.3	56.1	51.6	16.7	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.6	22.3	9.6	3.6	1.2	0

TABLE 6-5 CONT.'D

<i>Corycaeus americanus</i>	7.0	17.4	0.9	0.7	0	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	0	3.5	5.8	8.4	0.3
<i>Corycaeus latus</i>	0	0	0.9	0.7	2.4	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.8	0	2.6	50.9	39.5	22.7
<i>Lichomolgus sp.</i>	0	0	4.4	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0.7	0	0
<i>Oithona hebes</i>	0	1.4	0	0	0	0
<i>Oithona nana</i>	6.2	6.3	13.2	4.4	0	0.3
<i>Oithona plumifera</i>	6.2	2.8	0	12.4	29.9	3.8
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	2.3	0	0	0	0	0
<i>Oithona simplex</i>	0	0	0	11.6	0	0
<i>Oithona tenuis</i>	1.6	0.7	2.6	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp. 1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	18.0	14.6	5.3	16.0	14.4	0.6
<i>Oncaea mediterranea</i>	0	0	0.9	0	2.4	0
<i>Oncaea venusta</i>	0	0.7	0	1.5	51.4	3.5
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0.9	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0

TABLE 6-5 CONT. 'D

<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0.8	2.1	0.9	0	0	0.3
Clytemnestra scutellata	0	0	0	0	0	0
Macrosetella gracilis	0	0	0	0	0	0
Microsetella norvegica	0	0	0	0	0	0
Microsetella rosea	0	0	0	0	0	0
Benthic harpacticoid females	11.7	41.7	4.4	0	4.8	1.0

TABLE 6-5 CONT. 'D

	10-2-63	11-1-63	11-30-63	1-28-64	2-19-64	3-21-64
Total No./m ³	178.0	276.4	109.2	254.3	22.3	379.2
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0	0	0
Acartia lilljeborgii	0	0	0	0	0	0
Acartia tonsa	0.4	0	0	0	0	1.2
Acrocalanus andersoni	0	0	0	1.7	0	0
Acrocalanus longicornis	0.8	0	0	0	0	0
Aetideus acutus	0	0	0	0.8	0	0
Calanopia americana	7.4	2.9	1.9	0.8	0	0
Calanus tenuicornis	0	0	0	0.8	0	0
Calocalanus gracilis	0	0	0	0	0	0
Calocalanus pavo	0	0	0	0	0	0
Calocalanus pavoninus	0	0	0	2.5	0	0
Calocalanus styliremis	0	0	0	0	0	0
Calocalanus sp. 2	0	0	0	0	0	0
Candacia curta	0	0	0	1.7	0	1.2
Centropages hamatus	0	0	0	0	0.2	0
Centropages velificatus	9.4	5.8	0	1.7	0	0
Clausocalanus furcatus	0.8	2.9	1.9	10.1	0.7	13.8
Clausocalanus jobei	0	0	0	5.9	0.2	0.6
Clausocalanus parapergens	0	0	0	0	0	0.6
Ctenocalanus vanus	0	0	0	2.5	0	0
Eucalanus pileatus	3.1	2.9	0.6	10.1	0	3.0

TABLE 6-5 CONT. 'D

<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0.1	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0.8	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0.8	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	13.5	0	0
<i>Paracalanus aculeatus</i>	9.8	50.9	13.0	6.7	0.1	0.6
<i>Paracalanus crassirostris</i>	1.6	0	0.6	0.8	0.5	22.1
<i>Paracalanus denudatus</i>	0	0	0	0.8	0	0
<i>Paracalanus indicus</i>	14.4	37.8	12.1	31.2	2.9	71.8
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	12.1	8.7	11.0	46.3	8.7	130.4
<i>Paracandacia simplex</i>	26.5	46.5	23.1	77.5	11.6	202.2
<i>Parundinella spinodenticula</i>	0	0	0	2.5	0	0
<i>Rhincalanus cornutus</i>	0	0	0	2.5	0	0
<i>Stephos deichmannae</i>	0	0	0	0.8	0	0
<i>Temora stylifera</i>	2.3	2.9	0.3	1.7	0	0
<i>Temora turbinata</i>	3.1	1.5	0.3	9.3	0.5	1.8
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0.8	0	0
<i>Corycaeus amazonicus</i>	13.7	21.8	4.4	0.8	0.5	20.3

TABLE 6-5 CONT.'D

<i>Corycaeus americanus</i>	0.8	10.2	5.5	3.4	0.7	46.1
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	1.7	0.1	0
<i>Corycaeus giesbrechti</i>	2.0	10.2	2.8	0	0	0
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.4	0	0	0	0	0
<i>Lichomolgus</i> sp.	0	0	0.3	3.4	0.1	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	15.6	10.2	3.0	8.4	0.7	0
<i>Oithona plumifera</i>	55.0	52.4	13.5	5.1	0.3	3.6
<i>Oithona setigera</i>	0	0	0	1.7	0.1	1.2
<i>Oithona similis</i>	0	0	0	0.8	0.3	6.0
<i>Oithona simplex</i>	0	0	0.8	0	0	0
<i>Oithona tenuis</i>	1.2	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0.3	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0.4	14.5	18.2	38.7	1.9	44.3
<i>Oncaea mediterranea</i>	0	0	0.3	10.9	0.2	0.6
<i>Oncaea venusta</i>	0.4	1.5	0	6.7	0.3	1.8
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0.4	2.9	0.3	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	1.7	0.1	0

TABLE 6-5 CONT.'D

<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	1.5	1.1	0.8	0	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0.3	0.8	0	0
<i>Microsetella norvegica</i>	0	0	0.3	0	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
Benthic harpacticoid females	23.0	34.9	16.8	11.8	2.4	8.4

TABLE 6-5 CONT. 'D

	4-16-64	5-23-64	6-25-64	7-17-64	8-30-64	9-27-64
Total No./m ³	538.9	101.7	297.6	1090.6	229.3	675.8
<u>CALANOIDA</u>						
Acartia danae	0	0	0.7	0	0	0
Acartia lilljeborgii	0	0	0	0	0	0
Acartia tonsa	91.6	3.6	0	0	0.3	0
Acrocalanus andersoni	0	0	0	0	0	0
Acrocalanus longicornis	0	0.1	0	0	1.8	0
Aetideus acutus	0	0	0	0	0	0
Calanopia americana	0	0.1	1.3	5.1	0	14.5
Calanus tenuicornis	0	0	0	0	0	0
Calocalanus gracilis	0	0	0	0	0	0
Calocalanus pavo	0	0	2.0	0	0.9	0
Calocalanus pavoninus	0	0	4.0	1.3	0.3	0
Calocalanus styliremis	0	0.3	1.3	1.3	0.6	0
Calocalanus sp. 2	0	0	0	0	0	0
Candacia curta	0	0	0	0	0	0
Centropages hamatus	2.9	0	0	0	0	0
Centropages velificatus	0	0.4	7.3	7.7	23.4	32.4
Clausocalanus furcatus	12.4	0.4	72.6	213.8	35.3	1.7
Clausocalanus jobei	0	0	0.7	1.3	0	0
Clausocalanus parapergens	0	0	0	0	0	0
Ctenocalanus vanus	0	0	0	0	0	0
Eucalanus pileatus	0	2.3	7.3	7.7	6.5	17.9

TABLE 6-5 CONT.'D

<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	1.3	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	1.3	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	1.3	2.6	0	0
<i>Paracalanus aculeatus</i>	0	0.6	4.6	9.0	29.0	17.9
<i>Paracalanus crassirostris</i>	7.3	0	0	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	78.5	19.3	39.6	5.1	11.3	81.1
<i>Paracalanus nudus</i>	0	0	0	1.3	0	0
<i>Paracalanus quasimodo</i>	261.8	53.7	55.4	17.9	14.8	346.5
<i>Paracandacia simplex</i>	0	0	0.7	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0.4	1.3	3.8	4.1	0.9
<i>Temora turbinata</i>	2.9	3.3	3.3	14.1	5.6	30.7
<i>Undinula vulgaris</i>	0	0	0	0	4.7	0
CYCLOPOIDA						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	4.4	1.3	11.2	1.3	1.2	29.9

TABLE 6-5 CONT.'D

<i>Corycaeus americanus</i>	25.5	2.2	5.3	3.8	0.3	15.4
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	0.1	5.9	23.0	3.9	17.9
<i>Corycaeus latus</i>	0.7	0	1.3	0	0.6	0
<i>Corycaeus speciosus</i>	0	0	2.0	0	0	0
<i>Farranula gracilis</i>	0	0.6	11.9	48.6	3.6	0
<i>Lichomolgus</i> sp.	0	0	0.7	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0.7	0	0	0	0	0
<i>Oithona nana</i>	8.7	1.7	2.6	0	0.6	12.8
<i>Oithona plumifera</i>	0	0.1	37.6	76.8	7.1	28.2
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	1.3	0	0
<i>Oncaea dentipes</i>	0	0	0	1.3	0	0
<i>Oncaea media</i>	12.4	1.0	6.6	387.8	3.0	0.9
<i>Oncaea mediterranea</i>	0	0	0	5.1	0	0
<i>Oncaea venusta</i>	0.7	0	5.9	23.0	47.7	3.4
<i>Paroithona pulla</i>	0	0	0	1.3	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0.1	0	0	0.9	0

TABLE 6-5 CONT.'D

<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	2.2	0.3	0	2.6	2.4	4.3
Clytemnestra scutellata	0	0	0	0	0	0
Macrosetella gracilis	0	0	0	0	0.6	0
Microsetella norvegica	0	0	0	1.3	0	0
Microsetella rosea	0	0	0	1.3	0	0
Benthic harpacticoid females	26.2	9.3	3.3	217.6	19.0	19.6

TABLE 6-5 CONT. 'D

	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65	3-22-65
Total No. /m ³	192.0	158.7	182.2	208.7	156.2	304.8
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.2	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0	0	1.4	0	0.4
<i>Acrocalanus andersoni</i>	0	0	0	0	0.7	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0.7	1.1	0.5	5.6	0	0
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0.2	0	0	0.4
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0.3	0	0	0	0.7	0
<i>Calocalanus styliremis</i>	0.3	0	0.7	0	1.3	0
<i>Calocalanus sp. 2</i>	0	0	0.2	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0.8
<i>Centropages velificatus</i>	1.3	8.5	0	0.7	0.3	1.2
<i>Clausocalanus furcatus</i>	4.0	12.2	4.4	0.7	7.0	1.6
<i>Clausocalanus jobei</i>	0	0	0	0	1.3	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0.2	0	0	2.4
<i>Eucalanus pileatus</i>	1.0	6.3	0.4	0	0	1.6

TABLE 6-5 CONT. 'D

<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0.4
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0.7	0	0.4
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0.3	0.4
<i>Paracalanus aculeatus</i>	14.3	4.8	15.3	2.8	5.0	3.2
<i>Paracalanus crassirostris</i>	0	0	1.6	8.3	3.3	6.4
<i>Paracalanus denudatus</i>	0	0.5	0	0	0	0
<i>Paracalanus indicus</i>	1.3	21.7	45.9	28.5	35.8	60.8
<i>Paracalanus nudus</i>	0	0	0.5	0	0	0
<i>Paracalanus quasimodo</i>	3.0	5.8	16.0	41.7	33.5	59.6
<i>Paracandacia simplex</i>	4.3	27.5	61.9	70.2	64.3	120.2
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0.3	0
<i>Temora stylifera</i>	0.3	0.5	0	0.7	0.7	0
<i>Temora turbinata</i>	2.0	0	0.5	11.1	3.0	0.8
<i>Undinula vulgaris</i>	0.3	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	3.3	7.9	1.4	1.4	1.7	6.4

TABLE 6-5 CONT.'D

<i>Corycaeus americanus</i>	1.3	11.6	1.1	12.5	1.0	8.8
<i>Corycaeus clausi</i>	0	0	0	0	0.3	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	11.3	4.2	3.0	0.7	2.0	0
<i>Corycaeus latus</i>	0	0	0	0	0.7	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.7	0	0.7	0	0	0
<i>Lichomolgus</i> sp.	0	2.1	0.4	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0.2	0	0	0
<i>Oithona nana</i>	8.3	0	2.3	15.3	5.6	10.0
<i>Oithona plumifera</i>	13.0	6.9	6.4	3.5	2.7	2.4
<i>Oithona setigera</i>	0	0	0.2	0	0	0
<i>Oithona similis</i>	0	0	0	0	1.7	0.8
<i>Oithona simplex</i>	0	0	6.2	0	0	0
<i>Oithona tenuis</i>	0	0	0.2	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	1.0	0.4
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	1.0	38.6	63.5	42.4	44.4	36.4
<i>Oncaea mediterranea</i>	0	0	0.2	0	0.3	0
<i>Oncaea venusta</i>	28.0	12.2	4.1	0.7	1.7	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.3	0.5	0	0	0	0

TABLE 6-5 CONT.'D

<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0.7	2.1	0.7	2.8	0	3.2
Clytemnestra scutellata	0	0	0	0	0	0
Macrosetella gracilis	0.3	1.1	0.5	0	0	0
Microsetella norvegica	0	0	0	0	0	0
Microsetella rosea	0	0	0	0	0	0
Benthic harpacticoid females	94.7	10.0	4.8	27.1	0	96.0

TABLE 6-5 CONT.'D

	4-23-65	5-29-65	6-12-65	9-10-65
Total No./ m ³	619.7	181.3	250.1	487.4
<u>CALANOIDA</u>				
Acartia danae	0	2.7	3.5	0
Acartia lilljeborgii	0	0	0	0
Acartia tonsa	335.6	12.8	58.7	2.0
Acrocalanus andersoni	0	0	0	0
Acrocalanus longicornis	0	1.6	0	4.1
Aetideus acutus	0	0	0	0
Calanopia americana	0	0	0	0
Calanus tenuicornis	0	0	0	0
Calocalanus gracilis	1.6	0.5	0	0
Calocalanus pavo	0	0	1.2	1.0
Calocalanus pavoninus	1.6	0	1.2	0
Calocalanus styliremis	0	0	0	0
Calocalanus sp. 2	0	0	0	0
Candacia curta	0	0	0	0
Centropages hamatus	0	0	0	0
Centropages velificatus	0	2.7	1.2	7.2
Clausocalanus furcatus	18.7	0	0	21.5
Clausocalanus jobei	0	0.5	0	0
Clausocalanus parapergens	0	0	0	0
Ctenocalanus vanus	0	0	0	0
Eucalanus pileatus	4.7	16.5	11.7	9.2

TABLE 6-5 CONT.'D

<i>Euchaeta paraconcinna</i>	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0
<i>Ischnocalanus plumulosus</i>	1.6	0	0	0
<i>Labidocera aestiva</i>	23.4	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0
<i>Nannocalanus minor</i>	1.6	0	0	0
<i>Paracalanus aculeatus</i>	7.8	1.6	1.2	31.7
<i>Paracalanus crassirostris</i>	9.4	0	1.2	0
<i>Paracalanus denudatus</i>	0	0	0	0
<i>Paracalanus indicus</i>	37.5	8.5	23.5	165.9
<i>Paracalanus nudus</i>	0	0	0	0
<i>Paracalanus quasimodo</i>	46.8	47.5	21.1	116.7
	84.3	56	44.6	282.6
<i>Paracandacia simplex</i>	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0.5	0	0
<i>Stephos deichmannae</i>	0	0	0	0
<i>Temora stylifera</i>	0	6.9	12.9	1.0
<i>Temora turbinata</i>	3.1	0	57.5	0
<i>Undinula vulgaris</i>	0	0	0	3.1
<u>CYCLOPOIDA</u>				
<i>Copilia lata</i>	0	0	0	2.0
<i>Copilia mirabilis</i>	0	0	0	0
<i>Corycaeus amazonicus</i>	45.3	25.1	7.0	6.1

TABLE 6-5 CONT.'D

<i>Corycaeus americanus</i>	17.2	11.7	3.5	21.5
<i>Corycaeus clausi</i>	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0
<i>Corycaeus giesbrechti</i>	1.6	1.6	0	9.2
<i>Corycaeus latus</i>	0	0.5	0	0
<i>Corycaeus speciosus</i>	0	0	0	1.0
<i>Farranula gracilis</i>	0	0	0	29.7
<i>Lichomolgus</i> sp.	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0
<i>Oithona nana</i>	7.8	9.1	12.9	0
<i>Oithona plumifera</i>	20.3	1.1	9.4	38.9
<i>Oithona setigera</i>	0	0	0	0
<i>Oithona similis</i>	0	0	0	0
<i>Oithona simplex</i>	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0
<i>Oncaea media</i>	10.9	1.6	3.5	0
<i>Oncaea mediterranea</i>	1.6	0	0	0
<i>Oncaea venusta</i>	0	1.6	5.9	8.2
<i>Paroithona pulla</i>	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	1.0

TABLE 6-5 CONT.'D

<u>HARPACTICOIDA</u>				
Clytemnestra rostrata	1.6	2.7	1.2	2.0
Clytemnestra scutellata	0	0.5	0	0
Macrosetella gracilis	0	0	0	0
Microsetella norvegica	0	0	0	0
Microsetella rosea	0	0	0	1.0
Benthic harpacticoid females	20.3	23.5	11.7	3.1

TABLE 6-6

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W15

	3-8-63	4-3-63	5-20-63	6-26-63	7-16-63	8-30-63
Total No./m ³	212.8	652.2	359.9	288.9	174.7	147.6
<u>CALANOIDA</u>						
<i>Acartia danae</i>	1.3	4.6	5.6	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	5.3	6.1	0	6.7	0	0
<i>Acrocalanus andersoni</i>	0	0	0	0.4	0	0
<i>Acrocalanus longicornis</i>	0.3	0	0	0	3.2	6.2
<i>Calanopia americana</i>	0	1.5	6.5	0	0	0
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0.3	0	0.9	0.9	0	0
<i>Calocalanus pavo</i>	0	9.1	2.8	0	17.6	2.3
<i>Calocalanus pavoninus</i>	1.0	1.5	0.9	9.3	3.5	5.2
<i>Calocalanus styliremis</i>	1.8	4.6	0.9	2.7	2.9	6.9
<i>Calocalanus sp. 2</i>	0	0	0	0	0	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0	0.7
<i>Candacia curta</i>	0	0	0.9	0	0	0
<i>Centropages caribbeanensis</i>	0	0	0	0	0.6	0
<i>Centropages hamatus</i>	0.8	0	0	0	0	0
<i>Centropages velificatus</i>	1.3	4.6	0.9	0.9	0	0.7
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	3.3	117.3	33.4	76.4	67.7	43.4
<i>Clausocalanus jobei</i>	0.5	7.6	34.3	0	0	7.5

TABLE 6-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0.3
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0.3	3.0	15.8	0	0	0.3
<i>Eucalanus hyalinus</i>	1.0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	2.0	6.1	0.9	0	0.3	0.3
<i>Eucalanus sewelli</i>	0.3	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0.3
<i>Euchaeta paraconcinna</i>	0	0	0.9	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.3	3.0	0	0.4	0	0.3
<i>Labidocera aestiva</i>	0.5	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0.9	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0.9	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0.3
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	2.8	0	0	3.9
<i>Nannocalanus minor</i>	2.0	0	4.6	0.4	2.0	7.8
<i>Paracalanus aculeatus</i>	4.1	7.6	0	11.1	0.3	9.5
<i>Paracalanus crassirostris</i>	2.8	0	0	0	0	0
<i>Paracalanus denudatus</i>	0	3.0	0.9	0	0	0.3
<i>Paracalanus indicus</i>	9.9	126.5	8.3	3.6	0.6	0.7
<i>Paracalanus nudus</i>	0.3	0	0.9	5.3	0	0
<i>Paracalanus quasimodo</i>	79.0	91.4	14.8	49.8	2.6	1.3
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 6-6 CONT.'D

<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	1.5	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0.3	0	0.9	2.2	2.0	1.0
<i>Temora turbinata</i>	5.3	0	45.4	5.8	0.3	0.3
<i>Undinula vulgaris</i>	0	0	0	0	0.6	0.3
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0.3	0	0	1.3	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	4.3	21.3	12.1	0.4	0	0
<i>Corycaeus americanus</i>	1.8	13.7	6.5	0	0.3	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	1.3	4.6	4.6	9.3	0	0.7
<i>Corycaeus latus</i>	0	0	0	0	2.9	0
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0.7
<i>Farranula gracilis</i>	0	6.1	0	30.2	43.0	17.0
<i>Farranula rostrata</i>	0	0	0	0.9	0	0
<i>Lichomolgus sp.</i>	0	25.9	10.2	0	0	0
<i>Lubbockia squillimana</i>	0	0	0.9	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	7.6	1.5	7.4	1.3	0	1.0

TABLE 6-6 CONT.'D

<i>Oithona plumifera</i>	7.4	93.0	3.7	38.2	18.7	13.7
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	1.0	0	0	0	0	0
<i>Oithona tenuis</i>	0.8	6.1	0	1.3	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp. 1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	12.1	0.4	0	0
<i>Oncaea media</i>	16.8	29.0	59.4	2.2	4.0	2.0
<i>Oncaea mediterranea</i>	2.0	3.0	31.5	1.3	0.3	3.3
<i>Oncaea venusta</i>	2.3	42.7	7.4	22.2	0.6	7.2
<i>Oncaea sp.</i>	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona sp.</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.3	0	0	0.9	0.3	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	1.0
<i>Siphonostomata sp. 2</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.3	1.5	0	0	0	0
<i>Clytemnestra scutellata</i>	0.8	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	1.5	0	2.7	0.6	1.3
Benthic harpacticoid females	42.4	3.0	18.6	0	0	0

TABLE 6-6 CONT.'D

	10-2-63	10-31-63	11-30-63	12-19-63	1-28-64	2-19-64
Total No./m ³	412.6	246.5	245.8	475.2	153.5	109.7
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0.3	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0	0	0	0	0.6
<i>Acrocalanus andersoni</i>	0	0.5	0.9	0	0.3	0
<i>Acrocalanus longicornis</i>	5.1	2.6	0	4.8	0	0
<i>Calanopia americana</i>	33.7	6.3	0.9	4.8	0	0
<i>Calanus tenuicornis</i>	0	0	0	1.6	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	8.4	0.5	0	0	0.8	0
<i>Calocalanus pavoninus</i>	3.4	2.6	4.3	4.8	2.4	0
<i>Calocalanus styliremis</i>	5.1	2.1	4.3	8.0	1.1	0
<i>Calocalanus sp. 2</i>	0	0	0	0	0.3	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0.5	0
<i>Candacia curta</i>	0	1.1	0.9	0	0	0
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	1.1	0.9	1.6	0.3	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	75.8	6.3	17.9	81.6	1.6	6.1
<i>Clausocalanus jobei</i>	0	0	0	4.8	1.1	1.1

TABLE 6-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0.5	0
<i>Clausocalanus paululus</i>	0	0	0	3.2	0	0
<i>Clausocalanus pergens</i>	0	0	0	1.6	0	0
<i>Ctenocalanus vanus</i>	0	0	0	1.6	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	1.1	0
<i>Eucalanus pileatus</i>	1.7	0.5	0	6.4	7.9	0.2
<i>Eucalanus sewelli</i>	0	0	0	0	0.3	0
<i>Euchaeta marina</i>	0	0	0	0	0.5	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischocalanus plumulosus</i>	0	0.5	0	1.6	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	6.4	0.3	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0.9	0	0	0
<i>Mecynocera clausii</i>	0	0	0	1.6	1.4	0
<i>Nannocalanus minor</i>	0	0	1.7	6.4	3.0	0.2
<i>Paracalanus aculeatus</i>	16.8	32.3	11.9	49.6	1.9	0
<i>Paracalanus crassirostris</i>	0	0	0	0	0	3.2
<i>Paracalanus denudatus</i>	0	0	0.9	3.2	0.5	0
<i>Paracalanus indicus</i>	16.8	17.5	36.7	150.4	19.0	11.8
<i>Paracalanus nudus</i>	0	0	0	3.2	0	0
<i>Paracalanus quasimodo</i>	62.3	25.4	52.9	14.4	22.5	57.1
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 6-6 CONT.'D

<i>Paracandacia simplex</i>	0	0	0	0	0.5	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	1.6	0
<i>Stephos deichmannae</i>	0	0	0	4.8	0	0
<i>Temora stylifera</i>	1.7	0.5	0.9	0	0.5	0.2
<i>Temora turbinata</i>	8.4	12.2	5.1	3.2	10.3	2.9
<i>Undinula vulgaris</i>	0	0.5	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0	2.6	3.4	3.2	0.5	0.6
<i>Corycaeus americanus</i>	1.7	1.1	0	4.8	1.4	3.4
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	5.1	4.2	13.7	1.6	0	0
<i>Corycaeus latus</i>	1.7	1.1	0.9	0	0	0.2
<i>Corycaeus lautus</i>	0	0	0	24.0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	3.4	0	0	3.2	0	0.2
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.</i>	18.5	1.6	0	0	0.3	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0.5	0.9	0	0	0
<i>Oithona nana</i>	0	5.3	6.0	0	3.8	6.7

TABLE 6-6 CONT.'D

<i>Oithona plumifera</i>	58.9	79.3	35.8	22.4	7.1	2.5
<i>Oithona setigera</i>	0	0	0	0	0.3	0
<i>Oithona similis</i>	0	0	0	0	0.3	0.2
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0.3	0
<i>Oithona sp. 1</i>	0	0	0	0	0.3	0
<i>Oncaea conifera</i>	1.7	0	0.9	1.6	0	0
<i>Oncaea media</i>	11.8	3.2	2.6	19.2	14.1	3.8
<i>Oncaea mediterranea</i>	3.4	1.1	7.7	3.2	2.7	0.6
<i>Oncaea venusta</i>	35.4	14.8	7.7	9.6	4.1	1.3
<i>Oncaea sp.</i>	0	0.5	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona sp.</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0.5	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata sp. 2</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0.5	2.6	3.2	0	0
<i>Clytemnestra scutellata</i>	0	0	0	1.6	0	0
<i>Macrosetella gracilis</i>	0	3.7	4.3	0	0.8	0
Benthic harpacticoid females	32.0	14.3	18.8	8.0	37.2	6.7

TABLE 6-6 CONT. 'D

	3-19-64	4-15-64	5-23-64	6-25-64	7-17-64	8-30-64
Total No./m ³	255.1	590.8	278.5	144.7	810.2	203.5
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0.6	0	0
Acartia lilljeborgii	0	0	0	0	0	0
Acartia tonsa	0	0	45.6	0	0	0
Acrocalanus andersoni	0	0	0	0	0	0
Acrocalanus longicornis	0	0	0	0	1.5	1.4
Calanopia americana	0.9	2.8	0	0	2.9	0.8
Calanus tenuicornis	0	0	0	0	0	0
Calocalanus gracilis	0	0	0.7	0	0	0
Calocalanus pavo	0	1.4	0	1.2	8.7	3.0
Calocalanus pavoninus	0	0	0	1.2	7.3	0.3
Calocalanus styliremis	0.9	0	0.7	0.6	4.4	1.6
Calocalanus sp. 2	0	0	0	0	0	0
Calocalanus sp. 4	0.9	0	0	0	0	0
Candacia curta	0	0	0	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0.3
Centropages hamatus	0	0	0	0	0	0
Centropages velificatus	0.9	0	0	4.6	13.1	7.4
Clausocalanus arcuicornis	0	1.4	0	0	0	0
Clausocalanus furcatus	7.3	11.3	17.0	19.0	308.4	18.6
Clausocalanus jobei	0	5.6	6.1	2.3	16.0	0.5

TABLE 6-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0.9	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	2.7	0	0	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	7.3	0	2.7	8.1	1.5	1.4
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	1.5	0
<i>Nannocalanus minor</i>	0	0	1.4	1.2	0	0
<i>Paracalanus aculeatus</i>	0.9	1.4	2.0	1.7	30.5	45.7
<i>Paracalanus crassirostris</i>	1.8	0	0.7	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	21.0	77.4	62.0	27.7	1.5	15.9
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	21.0	150.5	49.7	19.6	7.3	4.9
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 6-6 CONT.'D

<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0.9	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0.9	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora styliifera</i>	0	0	0.7	0	2.9	1.4
<i>Temora turbinata</i>	0.9	1.4	8.9	0	1.5	6.8
<i>Undinula vulgaris</i>	0	0	0	0	1.5	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	2.7	38.0	11.6	1.2	0	9.3
<i>Corycaeus americanus</i>	19.2	28.1	3.4	1.7	0	3.8
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	0	0.7	0.6	13.1	5.7
<i>Corycaeus latus</i>	0	0	0	0	1.5	0
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	0.7	4.0	82.9	34.5
<i>Farranula rostrata</i>	0.9	0	0	0	0	0
<i>Lichomolgus sp.</i>	1.8	9.8	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	7.0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	4.6	2.8	2.0	4.0	0	0.5

TABLE 6-6 CONT. 'D

<i>Oithona plumifera</i>	8.2	7.0	2.0	21.3	49.5	23.2
<i>Oithona setigera</i>	0.9	0	0	0	0	0
<i>Oithona similis</i>	3.7	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0.9	2.8	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	97.8	232.1	28.6	16.1	77.1	1.9
<i>Oncaea mediterranea</i>	2.7	1.4	1.4	3.5	13.1	0
<i>Oncaea venusta</i>	1.8	0	4.8	2.3	157.1	12.6
<i>Oncaea</i> sp.	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona</i> sp.	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	1.4	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0.6	0	0
<i>Sapphirina nigromaculata</i>	0.9	0	1.4	0.6	0	0.3
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.9	1.4	1.4	0.6	2.9	0.3
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.3
<i>Macrosetella gracilis</i>	0.9	0	0	0	0	0
Benthic harpacticoid females	37.5	5.6	22.5	0.6	2.9	1.1

TABLE 6-6 CONT. 'D

	9-27-64	10-29-64	11-26-64	12-16-64	1-7-65	2-27-65
Total No./m ³	357.5	734.7	894.8	441.9	75.3	212.4
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.4	0	0	0	0	0
<i>Acartia lilljeborgii</i>	0	1.8	2.3	0	0	0
<i>Acartia tonsa</i>	0	0	0	0	0	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0.9	1.8
<i>Acrocalanus longicornis</i>	6.0	15.8	19.6	4.0	0.9	0.4
<i>Calanopia americana</i>	0.4	10.5	19.6	5.4	0.6	0
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	1.8	0	0	0.4	0.4
<i>Calocalanus pavo</i>	13.2	12.3	3.5	0	0	0.9
<i>Calocalanus pavoninus</i>	0.9	8.8	1.2	0	2.8	1.8
<i>Calocalanus styliremis</i>	1.7	5.3	9.2	6.7	1.1	4.0
<i>Calocalanus sp. 2</i>	0	0	0	0	0.6	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0.2	3.6
<i>Candacia curta</i>	0	0	0	0	0.4	0
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	3.0	0	1.2	0	0.4	0.9
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	99.8	206.9	328.6	87.6	6.4	6.7
<i>Clausocalanus jobei</i>	0	1.8	3.5	2.7	0.9	1.3

TABLE 6-6 CONT. 'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0.6	1.8
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	2.6	0	3.5	0	0.9	1.3
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0.4
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	1.3
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	1.8	0	0	0.6	0.9
<i>Labidocera aestiva</i>	0	0	0	0	0	1.8
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0.2	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0.9
<i>Mecynocera clausii</i>	0	0	0	0	1.5	0
<i>Nannocalanus minor</i>	0	0	0	0	0.9	4.9
<i>Paracalanus aculeatus</i>	26.5	28.1	102.6	71.4	5.1	12.4
<i>Paracalanus crassirostris</i>	0.9	0	0	2.7	0	0.9
<i>Paracalanus denudatus</i>	0	0	0	0	0.9	1.3
<i>Paracalanus indicus</i>	21.3	21.0	91.1	102.4	4.7	46.7
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	31.6	24.5	77.3	41.8	4.1	28.0
<i>Paracandacia bispinosa</i>	0	0	0	0	0.2	0.4

TABLE 6-6 CONT.'D

<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0.9
<i>Temora stylifera</i>	2.1	3.5	0	0	0	1.3
<i>Temora turbinata</i>	1.3	19.3	1.2	2.7	1.3	2.2
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	1.8	0	0	0	0.4
<i>Corycaeus amazonicus</i>	3.4	7.0	1.2	5.4	0.4	0.4
<i>Corycaeus americanus</i>	0	1.8	10.4	1.3	1.1	0.9
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0.2	0
<i>Corycaeus giesbrechti</i>	14.1	5.3	18.5	16.2	0.9	0.9
<i>Corycaeus latus</i>	0.4	0	1.2	0	0	0
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.9	0	0	0	0.2	0.4
<i>Farranula gracilis</i>	3.0	17.5	6.9	0	1.5	0
<i>Farranula rostrata</i>	0	0	0	0	0	1.3
<i>Lichomolgus sp.</i>	0.4	3.5	3.5	1.3	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0.2	0.4
<i>Oithona decipiens</i>	0	0	0	0	0.4	1.3
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0.4
<i>Oithona nana</i>	0	0	0	8.1	0	4.9

TABLE 6-6 CONT.'D

<i>Oithona plumifera</i>	104.5	108.7	66.9	29.6	11.5	16.4
<i>Oithona setigera</i>	0	1.8	0	0	0.4	0.9
<i>Oithona similis</i>	0	0	0	0	0	16.9
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	2.2
<i>Oithona</i> sp. 1	0	0	0	0	0	4.4
<i>Oncaea conifera</i>	0	3.5	0	0	0.2	0
<i>Oncaea media</i>	2.1	15.8	16.1	20.2	11.5	16.0
<i>Oncaea mediterranea</i>	0.4	15.8	1.2	0	3.8	6.2
<i>Oncaea venusta</i>	14.1	133.3	72.6	12.1	1.9	0.9
<i>Oncaea</i> sp.	0	0	0	0	0	0.4
<i>Paroithona pulla</i>	0	0	0	1.3	0	0
<i>Paroithona</i> sp.	0	1.8	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.9	0	0	0	0	0.4
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	1.7	1.8	0	0	0.6	2.2
<i>Clytemnestra scutellata</i>	0	0	2.3	0	0	0
<i>Macrosetella gracilis</i>	0	24.5	18.5	4.0	0.9	0
Benthic harpacticoid females	0	28.1	11.5	14.8	3.0	4.4

TABLE 6-6 CONT.'D

	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65	9-11-65	12-10-65
Total No./m ³	253.0	769.1	484.1	163.1	120.4	268.8	224.0
<u>CALANOIDA</u>							
Acartia danae	0.6	6.9	11.4	1.0	0.2	0	0
Acartia lilljeborgii	0	0	0	0	0	0	0
Acartia tonsa	1.2	30.9	15.2	0.3	0	0	0
Acrocalanus andersoni	0	0	0	0	0	0	0
Acrocalanus longicornis	0	0	0	0	0.2	0	0
Calanopia americana	1.2	4.6	1.3	0	0.8	0	6.1
Calanus tenuicornis	0	0	0	0	0	0	0
Calocalanus gracilis	0	2.3	0	0	0	0.6	0
Calocalanus pavo	0	2.3	1.3	0.3	1.0	8.9	0
Calocalanus pavoninus	0.6	0	6.3	0.3	0.2	2.2	2.6
Calocalanus styliremis	0.6	0	2.5	0.3	0	0	4.3
Calocalanus sp. 2	0	0	0	0	0	0	0
Calocalanus sp. 4	0	0	0	0	0	0	0
Candacia curta	1.2	0	0	0	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0	0
Centropages hamatus	0	0	0	0	0	0	0
Centropages velificatus	0	0	1.3	0.7	5.7	1.1	0
Clausocalanus arcuicornis	0	0	0	0	0	0.6	0
Clausocalanus furcatus	0	25.1	11.4	2.4	2.1	31.7	32.9
Clausocalanus jobei	1.2	3.4	2.5	0	0	0	0

TABLE 6-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	3.0	0	0	0	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	1.2	1.1	1.3	10.8	0.8	2.2	0
<i>Eucalanus sewelli</i>	0	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	1.1	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	2.5	0	0	0	0.9
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.6	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0.6	0
<i>Labidocera aestiva</i>	1.8	17.1	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0.6	0	0	0	0.4	0	7.8
<i>Mecynocera clausii</i>	0.6	0	0	0.3	0	0	0.9
<i>Nannocalanus minor</i>	0	0	3.8	0	0	1.1	0
<i>Paracalanus aculeatus</i>	4.2	12.6	22.8	3.5	4.0	13.4	30.3
<i>Paracalanus crassirostris</i>	0	1.1	0	0.7	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0	0.9
<i>Paracalanus indicus</i>	31.1	201.1	257.3	29.9	40.8	106.9	43.2
<i>Paracalanus nudus</i>	0.6	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	22.1	86.9	41.8	73.0	3.0	34.5	23.4
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0	0

TABLE 6-6 CONT.'D

<i>Paracandacia simplex</i>	0.6	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0.6	0	0	0	0	0	0
<i>Stephos deichmannae</i>	1.2	0	0	0	0	0	2.6
<i>Temora stylifera</i>	0	1.1	3.8	12.2	3.4	1.7	0
<i>Temora turbinata</i>	0	3.4	3.8	2.4	14.7	0	6.9
<i>Undinula vulgaris</i>	0	0	0	0	0	0.6	0
<u>CYCLOPOIDA</u>							
<i>Copilia lata</i>	0	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	3.0	46.9	20.3	2.1	12.6	4.5	2.6
<i>Corycaeus americanus</i>	4.8	43.4	8.9	1.0	1.9	0	1.7
<i>Corycaeus clausi</i>	0.6	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0.6	1.1	1.3	3.1	4.4	9.5	4.3
<i>Corycaeus latus</i>	0	0	0	0	0.2	1.7	0
<i>Corycaeus lautus</i>	0	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	1.3	0	0.2	0.6	0
<i>Farranula gracilis</i>	0	0	0	0.3	1.0	12.8	2.6
<i>Farranula rostrata</i>	0.6	0	0	0	0.2	0	0
<i>Lichomolgus sp.</i>	6.0	1.1	1.3	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	1.1	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0	0
<i>Oithona hebes</i>	0.6	0	0	0	0	0	0
<i>Oithona nana</i>	4.2	4.6	2.5	1.0	1.1	0.6	0

TABLE 6-6 CONT.'D

<i>Oithona plumifera</i>	8.4	58.3	15.2	4.5	5.7	25.0	26.8
<i>Oithona setigera</i>	0	0	0	0	0	0	1.7
<i>Oithona similis</i>	9.6	1.1	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0.3	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0	0
<i>Oithona</i> sp. 1	2.4	2.3	2.5	0	0	0	0
<i>Oncaea conifera</i>	0.6	2.3	0	0	0	0	0.9
<i>Oncaea media</i>	61.0	147.4	12.7	2.4	3.6	0	2.6
<i>Oncaea mediterranea</i>	6.6	12.6	3.8	2.4	0.8	0.6	0.9
<i>Oncaea venusta</i>	1.8	17.1	7.6	4.5	8.6	3.9	5.2
<i>Oncaea</i> sp.	0	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0	0
<i>Paroithona</i> sp.	0	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0.3	0	0	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0.6	0	0	0	0	0	0
<u>HARPACTICOIDA</u>							
<i>Clytemnestra rostrata</i>	2.4	3.4	12.7	0	1.9	0	3.5
<i>Clytemnestra scutellata</i>	0.6	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0.6	0	0	0	0.4	2.2	2.6
Benthic harpacticoid females	64.0	25.1	3.8	2.4	0.8	0.6	6.1

TABLE 6-7

NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M³ AT STATION W57

	3-8-63	4-3-63	5-2-63	5-20-63	6-26-63	7-16-63
Total No./m ³	180.9	504.0	254.0	476.2	124.0	212.8
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.3	0	1.6	0.9	0	0.5
<i>Acartia tonsa</i>	0	3.4	0.4	0	0.3	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0.6	0
<i>Acrocalanus longicornis</i>	0.3	1.1	0	0	0.9	4.1
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Anomalocera ornata</i>	0	0	0	0	0	0
<i>Bradyidius</i> sp. 1	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0	1.7	0	0
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus elegans</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	2.0	0.9	0.9	0.5
<i>Calocalanus pavo</i>	0.3	0	1.2	1.7	0	10.2
<i>Calocalanus pavoninus</i>	0.6	4.6	7.7	0.9	4.0	23.4
<i>Calocalanus styliremis</i>	2.9	4.6	7.7	0	1.8	5.1
<i>Calocalanus</i> sp. 2	0	0	0	0	0	0
<i>Calocalanus</i> sp. 3	0	0	0	0	0	0
<i>Calocalanus</i> sp. 4	0	0	0	0	0	0
<i>Candacia curta</i>	0.3	0	0	1.7	0	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages caribbeanensis</i>	0.3	0	0	0	0	0

TABLE 6-7 CONT.'D

Centropages hamatus	0	0	0	0	0	0
Centropages velificatus	0.6	0	0	0	0	0
Clausocalanus arcuicornis	0	1.1	0	0	0	0
Clausocalanus furcatus	7.7	110.9	29.8	20.5	9.5	59.4
Clausocalanus jobei	3.4	0	0.8	158.7	0.6	0
Clausocalanus mastigophorus	0	0	0	0	0	0
Clausocalanus parapergens	0	0	0	2.6	0	0
Clausocalanus paululus	0	0	0	0	0	0
Clausocalanus pergens	0	0	0	0.9	0	0
Ctenocalanus vanus	0	0	0.4	6.0	0	0
Eucalanus hyalinus	1.1	0	0	0	0	0
Eucalanus monachus	0	0	0	0	0	0
Eucalanus pileatus	0	9.1	1.6	0.9	0.6	0
Eucalanus sewelli	0	0	0	0	0	0
Euchaeta marina	2.3	2.3	0	0	0	0
Euchaeta paraconcinna	0	0	0	3.4	0	0
Euchirella rostrata	0.3	0	0	0	0	0
Haloptilus longicornis	0	0	0	0	0	0
Heterorhabdus papilliger	0	0	0	0	0	0
Heterorhabdus spinifer	0	0	0	0	0	0
Ischnocalanus plumulosus	0	1.1	0	0	0	0
Labidocera aestiva	0	1.1	0	0.9	0	0
Lucicutia flavicornis	0.3	0	0	1.7	0.3	0
Lucicutia gaussae	0	0	0	0.9	0	0
Lucicutia paraclausi	0	0	0	0	0	0
Mecynocera clausii	0	1.1	2.4	1.7	0.9	2.5

TABLE 6-7 CONT.'D

<i>Nannocalanus minor</i>	10.3	4.6	0	9.4	0	0
<i>Neocalanus gracilis</i>	0	1.1	0	0	0	0
<i>Neocalanus robustior</i>	0	0	0	0	0	0
<i>Paivella inaciae</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	9.1	16.0	4.9	0.9	1.8	9.1
<i>Paracalanus crassirostris</i>	0.6	21.7	0	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	13.1	82.3	8.6	20.5	0.3	0.5
<i>Paracalanus nudus</i>	0	0	0.4	0	0	0
<i>Paracalanus quasimodo</i>	48.6	132.6	8.2	11.1	16.3	0
<i>Paracandacia simplex</i>	0	0	0.8	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontellina plumata</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0.9	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithricella ctenopus</i>	0	0	0	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0.9	0	0.5
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	3.1	0	1.6	0.9	0.6	5.6
<i>Temora turbinata</i>	2.6	0	0	72.5	3.7	0
<i>Undinula vulgaris</i>	0.6	0	0	0	0	0

TABLE 6-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0.9	0	0
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.9	3.4	5.7	6.8	0.3	0
<i>Corycaeus americanus</i>	8.0	1.1	0	0	0	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0.9	0	3.3	2.6	3.4	0.5
<i>Corycaeus latus</i>	0.6	2.3	0	0	0.3	1.5
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.3	2.3	0.4	0	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.6	10.3	13.0	0	45.2	25.9
<i>Farranula rostrata</i>	0	0	0	0.9	0	0
<i>Lichomolgus sp.</i>	0.6	1.1	0	5.1	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0.6	0
<i>Monstrilla sp.</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0.4	0.9	0	0
<i>Oithona fallax</i>	0.3	0	0	0.9	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0.9	0	0
<i>Oithona nana</i>	2.0	5.7	0.4	6.8	0	0
<i>Oithona plumifera</i>	5.1	18.3	14.3	4.3	3.7	36.6

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0	0	0	0	0
<i>Oithona setigera</i>	0	0	0	0	0.3	0
<i>Oithona similis</i>	0	1.1	0	0	0	0
<i>Oithona simplex</i>	0.9	0	0	0	0	0
<i>Oithona tenuis</i>	0	3.4	1.6	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp. 1</i>	0	0	0	1.7	0	0
<i>Oithona sp. 3</i>	0	4.6	0	0	0	0
<i>Oncaea conifera</i>	0.3	1.1	0	0.9	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	17.4	33.1	71.7	66.6	4.6	2.5
<i>Oncaea mediterranea</i>	5.7	4.6	25.3	42.7	12.3	1.5
<i>Oncaea venusta</i>	6.3	4.6	31.0	6.8	8.6	17.3
<i>Oncaea sp.</i>	0	1.1	0	0	0	0
<i>Paroithona pulla</i>	0	1.1	0	0	0.3	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina auronitens</i>	0	0	0	0	0.3	0
<i>Sapphirina metallina</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	1.1	1.1	0	0	0	0
<i>Siphonostomata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	1.1	0.4	0.9	0.3	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0.3	2.3	1.6	0	0.3	5.6
<i>Microsetella rosea</i>	0	0	0.4	0	0	0

TABLE 6-7 CONT. 'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	20.3	1.1	4.1	5.1	0	0

(+) = less than 0.05%

TABLE 6-7 CONT.'D

	8-30-63	10-2-63	10-31-63	11-30-63	12-18-63	1-28-64
Total No./m ³	25.9	324.3	196.0	175.8	16.0	74.9
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0.2
<i>Acartia tonsa</i>	0	0	0	0	0	0.8
<i>Acrocalanus andersoni</i>	0	8.4	1.1	0.4	0.1	0.4
<i>Acrocalanus longicornis</i>	0.3	0	0	5.1	0.2	0
<i>Aetideus acutus</i>	0	0	0	0	0	0.1
<i>Anomalocera ornata</i>	0	0	0	0	+	0
<i>Bradyidius</i> sp. 1	0	0	0	0	0	0
<i>Calanopia americana</i>	+	0	0.5	1.3	0.2	0.1
<i>Calanus tenuicornis</i>	0	0	0	0	0	0.1
<i>Calocalanus elegans</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	+	0	0.3	1.7	0.1	1.2
<i>Calocalanus pavo</i>	0.6	14.5	1.9	0.9	0	0.7
<i>Calocalanus pavoninus</i>	2.1	5.3	6.1	9.4	1.0	3.3
<i>Calocalanus styliremis</i>	0.7	2.3	2.1	8.5	0.6	3.2
<i>Calocalanus</i> sp. 2	0	0	0	0.9	+	0.6
<i>Calocalanus</i> sp. 3	0	0	0.8	0	+	0.8
<i>Calocalanus</i> sp. 4	0	0	0	0	+	0.4
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages caribbeanensis</i>	+	0	0	0	0	0

TABLE 6-7 CONT.'D

<i>Centropages hamatus</i>	0	0	0	0	0	0.3
<i>Centropages velificatus</i>	0.1	0.8	0	0	0.1	0.1
<i>Clausocalanus arcuicornis</i>	0	0	0.3	0	0	0.1
<i>Clausocalanus furcatus</i>	2.4	82.3	25.3	47.8	1.1	8.2
<i>Clausocalanus jobei</i>	+	1.5	1.3	0.4	+	0.7
<i>Clausocalanus mastigophorus</i>	0	0	0	0	+	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0.1
<i>Clausocalanus paululus</i>	0	0	0.3	0	0	0.5
<i>Clausocalanus pergens</i>	0	0	0	0	0	0.1
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0.8
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0.4
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	+	1.0	0	0.4	0.1	0.2
<i>Eucalanus sewelli</i>	0	0	0	0	0	0.1
<i>Euchaeta marina</i>	0.1	0	0	0	0	0.1
<i>Euchaeta paraconcinna</i>	0	0	0	0.4	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0.1
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.1
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	+	0.3	3.2	0.4	+	0.3
<i>Labidocera aestiva</i>	0	0	0.3	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0.8	0.4	0	3.3
<i>Lucicutia gaussae</i>	0	0	0	0.9	+	0.1
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	1.3	0	0	0.9	0.1	1.3

TABLE 6-7 CONT.'D

<i>Nannocalanus minor</i>	0.4	0	0.3	0.9	0.2	0.2
<i>Neocalanus gracilis</i>	0	0	0	0	0	0.1
<i>Neocalanus robustior</i>	0	0	0	0	0	0
<i>Paivella inaciae</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0.2	4.8	10.4	2.6	0.3	0.9
<i>Paracalanus crassirostris</i>	0	0	0	0	0	0.1
<i>Paracalanus denudatus</i>	0.2	0	0	1.7	+	1.4
<i>Paracalanus indicus</i>	0.3	5.8	7.5	9.0	0.3	1.8
<i>Paracalanus nudus</i>	0	0	0.3	0	0	0.3
<i>Paracalanus quasimodo</i>	0.2	19.3	7.7	1.7	1.2	1.6
<i>Paracandacia simplex</i>	0	0	0	0.4	0	0.1
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontellina plumata</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0.1
<i>Scolecithricella ctenopus</i>	0	0	0	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0.1
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0.1
<i>Temora stylifera</i>	0.1	0.8	0.5	0	0	0
<i>Temora turbinata</i>	+	2.0	8.0	0	0.3	0.1
<i>Undinula vulgaris</i>	0.1	0	0	0	0	0

TABLE 6-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0.3	0	0	0
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.1	0.5	0	0	0.1	0.1
<i>Corycaeus americanus</i>	+	0	0	0	0.1	0.3
<i>Corycaeus clausi</i>	0	0	0.3	0	0.1	0
<i>Corycaeus flaccus</i>	0	0	0	0.4	0	0.1
<i>Corycaeus giesbrechti</i>	+	1.3	2.1	0.9	0.2	0.1
<i>Corycaeus latus</i>	0	0.5	1.1	0	+	0.1
<i>Corycaeus lautus</i>	0	0	0	0	0.1	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.2	0.5	0	0	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0.1
<i>Farranula gracilis</i>	1.4	52.1	7.2	9.4	0.2	0.9
<i>Farranula rostrata</i>	0	0	0	2.1	0.1	0
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Lubbockia squillimana</i>	+	0	0	0	0	0.3
<i>Monstrilla sp.</i>	0	0	0	0	+	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0.1	0	0.5	0	0.2	0.6
<i>Oithona plumifera</i>	10.7	27.7	44.5	42.2	7.4	9.9

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0	0	0	0	0
<i>Oithona setigera</i>	0.5	0	0	0	0.1	0.9
<i>Oithona similis</i>	0	0	0	0	0	2.9
<i>Oithona simplex</i>	0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0.3
<i>Oithona sp. 1</i>	0	0	0	0	0	0.8
<i>Oithona sp. 3</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0.3
<i>Oncaea dentipes</i>	0	0	0	0	0	0.1
<i>Oncaea media</i>	1.4	12.4	5.9	6.8	0.3	7.0
<i>Oncaea mediterranea</i>	0.2	9.4	7.5	4.7	0.2	9.8
<i>Oncaea venusta</i>	1.7	67.0	43.7	11.1	0.2	1.7
<i>Oncaea sp.</i>	0	0	0	0	+	0.3
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	+	0
<i>Sapphirina auronitens</i>	0	0	0	0	0	0
<i>Sapphirina metallina</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0.1	0
<i>Siphonostomata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0.5	0	0.1	0.1
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.1
<i>Macrosetella gracilis</i>	0.1	3.3	1.9	0.9	0.1	0.4
<i>Microsetella rosea</i>	0	0	0	0	0	0

TABLE 6-7 CONT.'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	+	0.5	1.6	1.3	0.8	1.5

TABLE 6-7 CONT. 'D

	2-19-64	3-18-64	4-15-64	5-23-64	6-25-64	7-16-64
Total No./m ³	27.1	366.4	1145.9	210.3	120.7	403.1
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0.6	3.3
<i>Acartia tonsa</i>	0.1	0.5	0	11.4	0	0
<i>Acrocalanus andersoni</i>	0	0.5	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0.5
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Anomalocera ornata</i>	0	0	0	0	0	0
<i>Bradyidius sp. 1</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0.5	0	0.3	0	0.5
<i>Calanus tenuicornis</i>	0	0.5	0	0	0	0
<i>Calocalanus elegans</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0.1	2.0	0	0.3	0	0
<i>Calocalanus pavo</i>	0	1.5	0	0	1.0	5.7
<i>Calocalanus pavoninus</i>	0	1.5	0	0.3	4.1	10.0
<i>Calocalanus styliremis</i>	0.1	2.5	0	0.3	0.6	2.4
<i>Calocalanus sp. 2</i>	0	1.5	0	0	0	0
<i>Calocalanus sp. 3</i>	0	0.5	0	0	0	0
<i>Calocalanus sp. 4</i>	0	0.5	0	0	0.2	0
<i>Candacia curta</i>	0.2	1.5	0	0	0.2	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0

TABLE 6-7 CONT. 'D

<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0.1	0	0	0.3	2.6	1.9
<i>Clausocalanus arcuicornis</i>	0	1.5	0	0	0	0
<i>Clausocalanus furcatus</i>	0.8	14.6	54.9	26.3	53.5	81.7
<i>Clausocalanus jobei</i>	0.1	7.6	6.1	7.4	0	55.9
<i>Clausocalanus mastigophorus</i>	0	0.5	0	0	0	0
<i>Clausocalanus parapergens</i>	0	3.0	9.1	0	0	0
<i>Clausocalanus paululus</i>	0	0	3.0	0	0	0
<i>Clausocalanus pergens</i>	0	2.5	0	0	0	0
<i>Ctenocalanus vanus</i>	0	10.1	3.0	0	0	1.0
<i>Eucalanus hyalinus</i>	0	2.5	0	0	0.4	0
<i>Eucalanus monachus</i>	0	0.5	0	0	0	0
<i>Eucalanus pileatus</i>	0.5	3.5	0	0.9	0.6	1.9
<i>Eucalanus sewelli</i>	0	0	0	0	0.2	0
<i>Euchaeta marina</i>	0	0.5	0	0	0	1.0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0.5	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	3.0	0	0	0	0.5
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	18.1	3.0	0	0	1.4
<i>Lucicutia gaussae</i>	0	0	0	0	0.2	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	2.5	0	0	4.7	1.9

TABLE 6-7 CONT. 'D

<i>Nannocalanus minor</i>	0.1	7.6	0	1.4	0	0.5
<i>Neocalanus gracilis</i>	0	0	0	0.3	0	0
<i>Neocalanus robustior</i>	0	0	0	0	0	0
<i>Paivella inaciae</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0	11.1	9.1	0.6	1.6	4.3
<i>Paracalanus crassirostris</i>	1.2	1.0	0	0	0	0
<i>Paracalanus denudatus</i>	0.1	2.5	0	0	0.4	0
<i>Paracalanus indicus</i>	1.1	10.6	125.0	10.6	0.8	2.4
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	7.5	32.7	371.8	89.1	23.3	7.6
<i>Paracandacia simplex</i>	0	0	0	0.3	0.2	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0.1	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontellina plumata</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	5.5	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithricella ctenopus</i>	0	0.5	0	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	1.5	0	0	0	0.5
<i>Stephos deichmannae</i>	0	0	0	0.3	0	0
<i>Temora stylifera</i>	0	0	0	0.6	0	6.7
<i>Temora turbinata</i>	0.4	0.5	12.2	5.4	0	21.5
<i>Undinula vulgaris</i>	0	0	0	0	0	0.5

TABLE 6-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0.5
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.1	6.6	39.6	5.1	1.0	0
<i>Corycaeus americanus</i>	0.7	20.2	76.2	5.4	0.2	0
<i>Corycaeus clausi</i>	0	2.0	0	0	0.2	0.5
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	1.0	6.1	1.1	0.4	4.3
<i>Corycaeus latus</i>	0	0	0	0	0.2	0.5
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.4	0	0	0	0	0.5
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.2	0	0	0	8.3	22.4
<i>Farranula rostrata</i>	0	4.0	0	0	0	1.9
<i>Lichomolgus sp.</i>	0	1.0	9.1	2.6	0	0
<i>Lubbockia squillimana</i>	0	1.5	0	0	0	0.5
<i>Monstrilla sp.</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	1.0	0	0	0	0.5
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	1.6	1.5	6.1	0.9	0	0
<i>Oithona plumifera</i>	0.5	15.1	0	1.7	4.9	44.4

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0	0	0	0	0
<i>Oithona setigera</i>	0	0.5	0	0	0.2	0.5
<i>Oithona similis</i>	0	17.1	0	10.9	0	0
<i>Oithona simplex</i>	0	0.5	0	0	0	0
<i>Oithona tenuis</i>	0	0.5	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp. 1</i>	0	6.6	6.1	2.0	0.8	0
<i>Oithona sp. 3</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	5.0	3.0	0.3	0.2	1.4
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	3.8	48.4	329.1	7.7	0.4	33.9
<i>Oncaea mediterranea</i>	0.3	27.2	15.2	1.7	6.9	35.3
<i>Oncaea venusta</i>	0.2	20.2	6.1	6.9	1.0	21.5
<i>Oncaea sp.</i>	0	0	0	0	0	17.7
<i>Paroithona pulla</i>	0	0	0	0	0	1.0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina auronitens</i>	0	0	0	0	0	0
<i>Sapphirina metallina</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	1.0	6.1	0.6	0	0
<i>Siphonostomata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.1	1.0	0	0.9	0.2	0
<i>Clytemnestra scutellata</i>	0	1.5	0	0	0.2	0.5
<i>Macrosetella gracilis</i>	0.2	0	0	0.3	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0

TABLE 6-7 CONT. 'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	6.7	24.2	45.7	6.3	0.4	1.9

TABLE 6-7 CONT. 'D

	8-30-64	9-28-64	10-29-64	11-26-64	12-16-64	1-7-65
Total No./m ³	676.0	743.7	490.8	164.9	179.0	191.4
<u>CALANOIDA</u>						
Acartia danae	0	0	0	0	0	0.9
Acartia tonsa	0	0	0	0	0	0
Acrocalanus andersoni	0	0	0	0	0.4	5.3
Acrocalanus longicornis	3.7	15.4	15.4	0.8	3.5	1.1
Aetideus acutus	0	0	0	0	0.4	0.2
Anomalocera ornata	0	0	0	0	0	0
Bradyidius sp. 1	0	0	0	0	0	0
Calanopia americana	0	3.7	2.9	0.8	0.9	0
Calanus tenuicornis	0	0	0	0	0.4	0.2
Calocalanus elegans	0	0	0	0	0	0
Calocalanus gracilis	0	0.7	0	0	0.9	2.8
Calocalanus pavo	24.3	33.8	23.4	6.2	0.4	0.2
Calocalanus pavoninus	1.9	8.8	11.7	5.4	6.9	16.2
Calocalanus styliremis	3.3	9.6	5.9	5.2	6.1	3.0
Calocalanus sp. 2	0	0	0	0.8	0	2.1
Calocalanus sp. 3	0	0	0	0	0	0.9
Calocalanus sp. 4	0	0	0	0.5	2.2	4.9
Candacia curta	0	0	0	0.3	0	0.2
Candacia pachydactyla	0	0	0	0.3	0	0
Centropages caribbeanensis	0	0	0	0	0	0

TABLE 6-7 CONT.'D

<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	0	0	0	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0.9	0
<i>Clausocalanus furcatus</i>	277.0	217.0	177.7	29.8	36.8	9.8
<i>Clausocalanus jobei</i>	0	5.9	8.0	0	6.9	4.3
<i>Clausocalanus mastigophorus</i>	0	0	0	0.3	0	0.2
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	2.2	0
<i>Clausocalanus pergens</i>	0	0	0	0	1.3	0.6
<i>Ctenocalanus vanus</i>	0	0.7	0	0	4.3	1.3
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	7.9	0	2.9	3.3	1.7	0.4
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0.7	0.3	0	2.1
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	1.5	1.1	0.4	0.4
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	1.5	1.5	0	5.2	1.1
<i>Lucicutia gaussae</i>	0	0	0	0	0	0.9
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	6.5	0	0	3.0	1.7	9.0

TABLE 6-7 CONT.'D

<i>Nannocalanus minor</i>	0.5	0	8.8	1.1	1.7	2.6
<i>Neocalanus gracilis</i>	0	0	0	0	0	0
<i>Neocalanus robustior</i>	0	0	0	0	0	0.2
<i>Paivella inaciae</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	38.3	16.9	19.0	8.7	3.5	2.8
<i>Paracalanus crassirostris</i>	0	0	0	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0.8	0	4.5
<i>Paracalanus indicus</i>	4.2	21.3	3.7	5.2	6.1	4.5
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	38.8	19.1	0.7	4.6	6.9	1.1
<i>Paracandacia simplex</i>	0	0	0	0.3	0.9	0.2
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontellina plumata</i>	0	0	0	0	0	0.2
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0.4	0.2
<i>Scolecithricella ctenopus</i>	0	0	0	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0	0.2
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0.5	0	1.9
<i>Stephos deichmannae</i>	0	1.5	0	0	0	0
<i>Temora stylifera</i>	4.2	8.1	1.5	0	0	0.4
<i>Temora turbinata</i>	4.7	5.1	3.7	4.9	2.6	0
<i>Undinula vulgaris</i>	0	0	1.5	0.8	0	0

TABLE 6-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0.4
<i>Copilia mirabilis</i>	0.9	0	0	0.3	0	0.2
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.4	5.1	0	0.8	0.9	0.2
<i>Corycaeus americanus</i>	0	2.2	0	0	1.7	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0.6
<i>Corycaeus flaccus</i>	0	0	0	0	0	0.6
<i>Corycaeus giesbrechti</i>	6.1	13.2	2.9	3.0	0.9	0.9
<i>Corycaeus latus</i>	1.4	0	0	0.3	0.9	0.4
<i>Corycaeus lautus</i>	0	0	2.2	0.3	0	0.6
<i>Corycaeus limbatus</i>	0	0	0	0	0	0.2
<i>Corycaeus minimus</i>	0.4	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	3.7	0	0	0.4
<i>Corycaeus typicus</i>	0	0	0	0	0.9	0
<i>Farranula gracilis</i>	78.0	118.4	34.4	7.3	1.3	25.2
<i>Farranula rostrata</i>	0	0	0	0	0	5.3
<i>Lichomolgus</i> sp.	0	0	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0.2
<i>Monstrilla</i> sp.	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0.2
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	1.4	0.7	0	0.8	0.4	0
<i>Oithona plumifera</i>	44.4	80.9	32.9	35.0	21.2	21.3

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0	0	0	0	0
<i>Oithona setigera</i>	0.5	2.2	0	0	0	7.7
<i>Oithona similis</i>	0	10.3	0	0	3.5	0
<i>Oithona simplex</i>	0	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0.3	0	0.2
<i>Oithona vivida</i>	0	0	0	0	0.9	1.1
<i>Oithona sp. 1</i>	0	0	0	0	0	0
<i>Oithona sp. 3</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0.5	1.5	3.7	0	1.3	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	3.7	38.3	25.6	2.7	7.4	21.1
<i>Oncaea mediterranea</i>	33.6	5.9	12.4	4.3	12.5	9.2
<i>Oncaea venusta</i>	70.1	86.1	75.3	15.2	15.6	5.8
<i>Oncaea sp.</i>	0	0	0	0	0.4	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina auronitens</i>	0	0	0	0	0	0
<i>Sapphirina metallina</i>	0	0	0	0.5	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	1.1	0.4	0.2
<i>Siphonostomata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	1.5	1.5	0	0	0
<i>Clytemnestra scutellata</i>	0	0.7	0	0	0	0
<i>Macrosetella gracilis</i>	2.3	0.7	5.1	2.4	2.2	0
<i>Microsetella rosea</i>	0	0	0	0	0	0

TABLE 6-7 CONT.'D

Miracia efferata	0	0	0	0.3	0	0
Oculosetella gracilis	0	0	0	0	0	1.7
Benthic harpacticoid females	5.1	1.5	0	0	0.9	0.2

TABLE 6-7 CONT.'D

	2-27-65	3-21-65	4-23-65	5-31-65	6-12-65	8-12-65
Total No./m ³	183.2	279.1	698.3	76.4	209.6	216.4
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.4	0.6	2.4	2.0	0	2.3
<i>Acartia tonsa</i>	0.2	2.8	7.6	1.4	1.6	0
<i>Acrocalanus andersoni</i>	0	0.6	1.3	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	1.1
<i>Aetideus acutus</i>	0	0	0	0	0	0
<i>Anomalocera ornata</i>	0.2	0	0	0	0	0
<i>Bradyidius</i> sp. 1	0.2	0	0	0	0	0
<i>Calanopia americana</i>	3.3	0	0	0	0	0
<i>Calanus tenuicornis</i>	0.2	0.6	0	0	0	0
<i>Calocalanus elegans</i>	0.4	0.6	0	0	0	0
<i>Calocalanus gracilis</i>	1.5	3.9	0	0.6	1.2	1.5
<i>Calocalanus pavo</i>	0	6.8	2.5	0	1.2	2.7
<i>Calocalanus pavoninus</i>	0.9	10.1	1.3	0.8	2.8	5.3
<i>Calocalanus styliremis</i>	0.6	8.5	0	0.8	0.4	2.7
<i>Calocalanus</i> sp. 2	0.2	1.1	0	0.2	0	0
<i>Calocalanus</i> sp. 3	0	0	0	0	0	0
<i>Calocalanus</i> sp. 4	1.7	3.9	2.5	0	0	1.1
<i>Candacia curta</i>	0	0.6	0	0	0	0
<i>Candacia pachyductyla</i>	0.2	0	0	0	0	0
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0

TABLE 6-7 CONT.'D

<i>Centropages hamatus</i>	0	0.6	0	0	0	0
<i>Centropages velificatus</i>	0	0	0	0	1.6	1.1
<i>Clausocalanus arcuicornis</i>	1.1	0	0	0	0	0
<i>Clausocalanus furcatus</i>	8.6	23.1	13.9	0.4	6.0	25.9
<i>Clausocalanus jobei</i>	9.4	11.3	33.0	0.4	0.8	21.0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	1.8	0	2.5	0	0	0
<i>Clausocalanus paululus</i>	1.8	0.6	1.3	0	0	0
<i>Clausocalanus pergens</i>	7.0	0	2.5	0	0	0
<i>Ctenocalanus vanus</i>	6.1	6.8	10.1	6.0	0	0
<i>Eucalanus hyalinus</i>	0	3.4	0	0	0	0.4
<i>Eucalanus monachus</i>	0.2	0.6	2.5	0	0	0
<i>Eucalanus pileatus</i>	1.3	0.6	5.1	0.6	18.4	3.0
<i>Eucalanus sewelli</i>	0	1.1	0	0	0	0.4
<i>Euchaeta marina</i>	0.9	3.4	1.3	0	0	0
<i>Euchaeta paraconcinna</i>	1.3	0	0	0	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0.2	0.6	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.4	1.7	0	0	0	3.4
<i>Labidocera aestiva</i>	0.9	0	0	0.2	0	0.4
<i>Lucicutia flavicornis</i>	5.7	1.7	15.2	0	0	0.8
<i>Lucicutia gaussae</i>	0	0.6	0	0.2	0	0
<i>Lucicutia paraclausi</i>	2.9	0	1.3	0	0	0.4
<i>Mecynocera clausii</i>	1.1	0	0	0.8	0	4.2

TABLE 6-7 CONT. 'D

Nannocalanus minor	1.5	11.3	1.3	0	0	16.4
Neocalanus gracilis	0	0	0	0	0	0
Neocalanus robustior	0	0	0	0	0	0
Paivella inaciae	0.2	0	0	0	0	0
Paracalanus aculeatus	3.1	11.8	6.3	0.2	4.4	5.0
Paracalanus crassirostris	0.4	0	0	0	1.2	0
Paracalanus denudatus	0.2	2.3	1.3	0.6	0	0.8
Paracalanus indicus	15.6	23.7	30.4	2.0	48.8	12.6
Paracalanus nudus	0.2	1.1	0	0	0	0
Paracalanus quasimodo	9.9	10.7	106.5	3.6	62.4	10.7
Paracandacia simplex	0.2	0	0	0	0	0
Parundinella spinodenticula	0.9	0	0	0	0	0
Pleuromamma gracilis	0	0	0	0	0	0
Pleuromamma piseki	0.4	0	0	0	0	0
Pontellina plumata	0	0	0	0	0	0
Rhincalanus cornutus	1.1	8.5	1.3	0	0	0.8
Scaphocalanus subcurtus	0.2	0	0	0	0	0
Scolecithricella ctenopus	0	0	0	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0	0
Scolecithrix bradyi	0	0	0	0	0	0
Scolecithrix danae	0.2	0.6	0	0	0	0.4
Stephos deichmannae	4.0	0	0	0	0	0
Temora stylifera	0.2	0.6	0	0.2	4.4	6.5
Temora turbinata	0.4	1.7	0	0	1.6	1.9
Undinula vulgaris	0	0	0	0	0	2.3

TABLE 6-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0.6	0	0	0	0.4
<i>Corissa parva</i>	0.2	0	1.3	0	0	0
<i>Corycaeus amazonicus</i>	2.8	0.6	11.4	4.8	2.0	0
<i>Corycaeus americanus</i>	1.1	0	5.1	4.6	0.4	0
<i>Corycaeus clausi</i>	0.4	0.6	0	0	0.4	0
<i>Corycaeus flaccus</i>	0.2	0	0	0	0	0.4
<i>Corycaeus giesbrechti</i>	0.6	1.1	2.5	0.8	0.4	0.4
<i>Corycaeus latus</i>	0	0	0	0.2	0	0
<i>Corycaeus lautus</i>	0.2	0	1.3	0	0	0
<i>Corycaeus limbatus</i>	0.2	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	1.1	0	0	0	1.1
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.6	2.8	0	0.2	1.6	4.2
<i>Farranula rostrata</i>	1.5	3.9	1.3	1.6	0	0.4
<i>Lichomolgus</i> sp.	0.9	0	1.3	0	0	0
<i>Lubbockia squillimana</i>	0.4	0	1.3	0	0	0
<i>Monstrilla</i> sp.	0	0	0	0	0	0
<i>Oithona decipiens</i>	1.8	0	0	0	0	0.4
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0.2	0	0	0	0	0
<i>Oithona hebes</i>	1.5	0	0	0	0	0
<i>Oithona nana</i>	0.6	0	0	1.2	0.4	0.4
<i>Oithona plumifera</i>	6.3	25.4	13.9	3.6	15.6	20.6

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0	1.3	0	0	0
<i>Oithona setigera</i>	4.0	3.9	6.3	0.2	0	0.4
<i>Oithona similis</i>	33.3	5.1	8.9	0.2	0	0
<i>Oithona simplex</i>	0	0	0	0	0.4	0
<i>Oithona tenuis</i>	0	0	0	0	0	0.4
<i>Oithona vivida</i>	1.5	1.1	1.3	0	0	0
<i>Oithona sp. 1</i>	0	2.3	13.9	3.0	0	1.1
<i>Oithona sp. 3</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0.4	1.1	8.9	0.8	0.4	2.3
<i>Oncaea dentipes</i>	0.2	0	0	0	0	0
<i>Oncaea media</i>	8.6	25.4	216.7	13.4	4.8	8.8
<i>Oncaea mediterranea</i>	4.4	17.5	124.2	16.0	4.8	8.4
<i>Oncaea venusta</i>	0.9	13.5	17.7	0	7.2	28.6
<i>Oncaea sp.</i>	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina auronitens</i>	0	0	0	0	0	0.4
<i>Sapphirina metallina</i>	0	0.6	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.4	0	0	0	0.4	0.4
<i>Siphonostomata</i>	0.2	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	2.0	0	2.5	3.2	1.6	0
<i>Clytemnestra scutellata</i>	0.6	0.6	0	0	0	0.4
<i>Macrosetella gracilis</i>	0.4	0.6	0	0	0	1.9
<i>Microsetella rosea</i>	0	0	0	0	0	0

TABLE 6-7 CONT.'D

Miracia eferrata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	8.1	3.4	3.8	1.6	12.4	0.4

TABLE 6-7 CONT.'D

	9-11-65	12-10-65
Total No./m ³	160.9	213.9
<u>CALANOIDA</u>		
<i>Acartia danae</i>	2.3	0.3
<i>Acartia tonsa</i>	0	0
<i>Acrocalanus andersoni</i>	0	0.3
<i>Acrocalanus longicornis</i>	0.6	1.8
<i>Aetideus acutus</i>	0	0.3
<i>Anomalocera ornata</i>	0	0
<i>Bradyidius sp. 1</i>	0	0
<i>Calanopia americana</i>	0	2.1
<i>Calanus tenuicornis</i>	0.3	0
<i>Calocalanus elegans</i>	0	0
<i>Calocalanus gracilis</i>	0.9	1.2
<i>Calocalanus pavo</i>	4.4	0.6
<i>Calocalanus pavoninus</i>	6.8	8.5
<i>Calocalanus styliremis</i>	2.6	6.7
<i>Calocalanus sp. 2</i>	0	0
<i>Calocalanus sp. 3</i>	0	0
<i>Calocalanus sp. 4</i>	2.1	0.9
<i>Candacia curta</i>	0	0
<i>Candacia pachydactyla</i>	0	0
<i>Centropages caribbeanensis</i>	0.3	0

TABLE 6-7 CONT.'D

<i>Centropages hamatus</i>	0	0
<i>Centropages velificatus</i>	0	0
<i>Clausocalanus arcuicornis</i>	0	0
<i>Clausocalanus furcatus</i>	4.7	65.5
<i>Clausocalanus jobei</i>	8.5	0
<i>Clausocalanus mastigophorus</i>	0	0
<i>Clausocalanus parapergens</i>	0.6	0
<i>Clausocalanus paululus</i>	0	0
<i>Clausocalanus pergens</i>	1.8	0
<i>Ctenocalanus vanus</i>	1.5	0
<i>Eucalanus hyalinus</i>	0	0
<i>Eucalanus monachus</i>	0	0
<i>Eucalanus pileatus</i>	0.3	0.6
<i>Eucalanus sewelli</i>	0	0.3
<i>Euchaeta marina</i>	0	0.3
<i>Euchaeta paraconcinna</i>	0.9	0.3
<i>Euchirella rostrata</i>	0	0
<i>Haloptilus longicornis</i>	0	0
<i>Heterorhabdus papilliger</i>	0	0
<i>Heterorhabdus spinifer</i>	0	0
<i>Ischnocalanus plumulosus</i>	0.6	0.3
<i>Labidocera aestiva</i>	0	0
<i>Lucicutia flavicornis</i>	0.3	1.5
<i>Lucicutia gaussae</i>	0.3	0.6
<i>Lucicutia paraclausi</i>	2.1	2.4
<i>Mecynocera clausii</i>	5.9	1.2

TABLE 6-7 CONT. 'D

<i>Nannocalanus minor</i>	0.6	3.4
<i>Neocalanus gracilis</i>	0	0
<i>Neocalanus robustior</i>	0	0
<i>Paivella inaciae</i>	0	0
<i>Paracalanus aculeatus</i>	2.6	17.7
<i>Paracalanus crassirostris</i>	0	0
<i>Paracalanus denudatus</i>	0.9	1.2
<i>Paracalanus indicus</i>	9.4	21.3
<i>Paracalanus nudus</i>	0	0.6
<i>Paracalanus quasimodo</i>	4.4	6.4
<i>Paracandacia simplex</i>	0.9	0
<i>Parundinella spinodenticula</i>	1.2	0
<i>Pleuromamma gracilis</i>	0	0
<i>Pleuromamma piseki</i>	0	0
<i>Pontellina plumata</i>	0	0.3
<i>Rhincalanus cornutus</i>	0	0
<i>Scaphocalanus subcurtus</i>	0	0
<i>Scolecithricella ctenopus</i>	0	0
<i>Scolecithricella tenuiserrata</i>	0	0
<i>Scolecithrix bradyi</i>	0	0
<i>Scolecithrix danae</i>	0	0
<i>Stephos deichmannae</i>	0	0
<i>Temora stylifera</i>	0.3	0.3
<i>Temora turbinata</i>	2.1	2.1
<i>Undinula vulgaris</i>	0.3	0.3

TABLE 6-7 CONT. 'D

<u>CYCLOPOIDA</u>		
<i>Copilia lata</i>	0	0
<i>Copilia mirabilis</i>	0.3	0.6
<i>Corissa parva</i>	0	0
<i>Corycaeus amazonicus</i>	0.6	0
<i>Corycaeus americanus</i>	0	0
<i>Corycaeus clausi</i>	0.3	0.3
<i>Corycaeus flaccus</i>	0	0
<i>Corycaeus giesbrechti</i>	0	0
<i>Corycaeus latus</i>	0.3	0.6
<i>Corycaeus lautus</i>	0	0.6
<i>Corycaeus limbatus</i>	0	0
<i>Corycaeus minimus</i>	0	0
<i>Corycaeus speciosus</i>	0.6	0
<i>Corycaeus typicus</i>	0	0.3
<i>Farranula gracilis</i>	1.8	2.1
<i>Farranula rostrata</i>	0	0.3
<i>Lichomolgus</i> sp.	0.3	0
<i>Lubbockia squillimana</i>	0.6	0.3
<i>Monstrilla</i> sp.	0	0
<i>Oithona decipiens</i>	0	0
<i>Oithona fallax</i>	0	0
<i>Oithona hamata</i>	0	0
<i>Oithona hebes</i>	0	0
<i>Oithona nana</i>	1.2	0
<i>Oithona plumifera</i>	44.6	41.1

TABLE 6-7 CONT.'D

<i>Oithona robusta</i>	0	0
<i>Oithona setigera</i>	0.3	0.3
<i>Oithona similis</i>	0.3	0
<i>Oithona simplex</i>	0	0
<i>Oithona tenuis</i>	0	0
<i>Oithona vivida</i>	0	0
<i>Oithona</i> sp. 1	0	0.3
<i>Oithona</i> sp. 3	0	0
<i>Oncaea conifera</i>	0.3	0.3
<i>Oncaea dentipes</i>	0	0
<i>Oncaea media</i>	5.9	4.0
<i>Oncaea mediterranea</i>	23.5	4.9
<i>Oncaea venusta</i>	5.6	6.1
<i>Oncaea</i> sp.	0	0
<i>Paroithona pulla</i>	0	0
<i>Saphirella</i> sp.	0	0
<i>Sapphirina auronitens</i>	0	0
<i>Sapphirina metallina</i>	0.3	0
<i>Sapphirina nigromaculata</i>	0.3	0
<i>Siphonostomata</i>	0	0
<u>HARPACTICOIDA</u>		
<i>Clytemnestra rostrata</i>	0.3	0.6
<i>Clytemnestra scutellata</i>	0	0
<i>Macrosetella gracilis</i>	2.9	1.2
<i>Microsetella rosea</i>	0	0

TABLE 6-7 CONT.'D

Miracia efferata	0	0
Oculosetella gracilis	0.3	0
Benthic harpacticoid females	0	0

TABLE 7-1

PERCENTAGE COMPOSITION OF ADULT FEMALE COPEPODS AT STATION W60

	3-9-63	4-5-63	6-28-63	7-15-63	8-29-63	10-4-63
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.5	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0.3	0	0	4.4
<i>Acartia tonsa</i>	5.3	0.9	0	0	0	0.1
<i>Calanopia americana</i>	0	0	0.3	0	1.6	2.8
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.2	0.3	0.3	0	0	0
<i>Calocalanus pavoninus</i>	0	0.3	0	0	0	0
<i>Calocalanus styliremis</i>	0	0.5	0.5	0	0.7	0
<i>Centropages hamatus</i>	0.2	0.2	0	0	0	0
<i>Centropages velificatus</i>	0	0.3	1.1	2.1	16.4	7.4
<i>Clausocalanus arcuicornis</i>	0.2	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0.5	1.9	0.8	0.3	0.3	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0.2	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.3	0	0	1.0	0.5
<i>Labidocera aestiva</i>	0	0	0	0	0	0.1
<i>Labidocera scotti</i>	0	0	0.8	0	0.3	0
<i>Lucicutia flavicornis</i>	0.2	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0.3	0	0	0
<i>Nannocalanus minor</i>	0.2	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Paracalanus aculeatus</i>	0.2	0.5	1.3	0	1.3	1.0
<i>Paracalanus crassirostris</i>	54.4	0.8	5.1	10.4	0	3.4
<i>Paracalanus indicus</i>	0.5	6.5	11.7	32.9	12.1	2.7
<i>Paracalanus nudus</i>	0	0.3	0.3	0	0	0
<i>Paracalanus quasimodo</i>	0.8	61.5	14.9	1.5	3.0	29.6
<i>Paracandacia bispinosa</i>	0.2	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	0.2	7.6	5.6	12.8	14.4	21.1
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.6	2.7	0.5	2.4	1.3	3.8
<i>Corycaeus americanus</i>	1.7	4.9	0.8	3.6	0.3	0.1
<i>Corycaeus giesbrechti</i>	0	0	0	0	0.7	3.9
<i>Farranula gracilis</i>	0	0	0.3	0	0	0
<i>Farranula rostrata</i>	0.3	0	0	0	0	0
<i>Lichomolgus sp.1</i>	1.4	0	0	0	0.3	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0.2	0	0	0	0	0.2
<i>Oithona decipiens</i>	0	0	0.3	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	0	0	0.3	0	0	0
<i>Oithona nana</i>	4.7	0.3	19.5	22.6	4.3	4.4
<i>Oithona plumifera</i>	2.2	0.6	3.5	0	2.6	0
<i>Oithona similis</i>	0	0.2	0	0	1.3	0

TABLE 7-1 CONT.'D

<i>Oithona simplex</i>	0	0	0.8	0.3	0.3	0
<i>Oithona tenuis</i>	0	0	1.1	0	0	0
<i>Oithona sp.1</i>	0.2	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	1.9	1.7	0.8	3.6	23.0	0
<i>Oncaea mediterranea</i>	0.2	0.2	0	0	2.3	0
<i>Oncaea venusta</i>	0.5	0	0	0	0.7	0.1
<i>Paroithona pulla</i>	0	0	0.3	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0.3	0	0	0
<i>Sapphirina nigromaculata</i>	0.2	0	0	0	0.3	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0.5	0	0.3	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	22.3	7.6	27.5	7.7	11.1	14.3

TABLE 7-1 CONT.'D

	11-3-63	12-2-63	12-22-63	1-29-64	2-20-64	3-20-64
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	18.1	30.1	0.4	0	0	0
<i>Acartia tonsa</i>	0	1.0	7.4	23.9	8.7	0.4
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0.3	0.8	27.5	0.8
<i>Centropages velificatus</i>	1.5	0.1	0.6	0	0	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0	0.4	0.3	0	0.3	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.4	1.0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0.1
<i>Labidocera scotti</i>	0.5	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Paracalanus aculeatus</i>	0	0	0.1	0	0.3	0
<i>Paracalanus crassirostris</i>	22.5	12.8	2.1	74.8	45.5	83.4
<i>Paracalanus indicus</i>	3.4	16.0	10.2	0	0.6	0.8
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	4.4	6.3	9.3	0	2.2	0.3
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0.5	0	0.3	0	0	0
<i>Temora stylifera</i>	0	0.2	0	0	0	0
<i>Temora turbinata</i>	5.4	1.6	5.8	0.1	1.1	0.1
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.0	0.2	1.9	0	0	0
<i>Corycaeus americanus</i>	0.5	1.9	7.9	0	0.3	0
<i>Corycaeus giesbrechti</i>	2.9	0.3	0	0	0	0
<i>Farranula gracilis</i>	0	0.1	0	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0	0	0	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0.6	0
<i>Oithona colcarva</i>	0.5	0	0	0	0.6	0.9
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	4.4	0	0	0	0	0
<i>Oithona nana</i>	27.5	24.2	5.8	0.4	6.5	13.0
<i>Oithona plumifera</i>	0	1.2	0.1	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Oithona simplex</i>	0.5	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0	0.1	4.5	0	0	0
<i>Oncaea mediterranea</i>	0.5	0	0	0	0	0
<i>Oncaea venusta</i>	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0.3	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.5	0.1	0.1	0	0	0
<i>Macrosetella gracilis</i>	0	0.1	0	0	0	0
Benthic harpacticoid females	5.4	2.6	41.8	0	5.6	0.4

TABLE 7-1 CONT. 'D

	4-17-64	5-24-64	6-26-64	7-18-64	8-31-64	9-25-64
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0.2	38.6
<i>Acartia tonsa</i>	2.6	17.1	0	0.3	0	6.9
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0.1	0	0	0
<i>Calocalanus styliremis</i>	0	0	0.1	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	2.0	3.4	5.7	17.0	1.0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	1.5	0	3.7	0	1.4	0
<i>Clausocalanus jobei</i>	0.4	0.4	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.4	0.4	0	0.2	0
<i>Labidocera aestiva</i>	0	0	0	0.3	0.5	1.0
<i>Labidocera scotti</i>	0	0	0.3	0.6	0.2	0.2
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Paracalanus aculeatus</i>	0	0	0.4	0	1.2	0
<i>Paracalanus crassirostris</i>	3.3	0	0.3	1.7	1.4	11.1
<i>Paracalanus indicus</i>	13.7	20.6	67.3	59.5	20.0	7.2
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	62.2	7.9	7.9	2.8	0.9	27.5
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	2.6	0	0.5	1.1	2.1	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0.1	0	0	0
<i>Corycaeus amazonicus</i>	1.9	2.8	0.3	0.3	1.4	0
<i>Corycaeus americanus</i>	5.2	10.7	0	0	7.9	0
<i>Corycaeus giesbrechti</i>	0	0	0.3	0	0.5	0.2
<i>Farranula gracilis</i>	0	0	4.1	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0.8	0	0	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0.3	11.4	0
<i>Oithona minuta</i>	0	0	0	0	0	0.7
<i>Oithona nana</i>	0	5.6	2.1	10.0	17.0	5.2
<i>Oithona plumifera</i>	0	0	0.3	0	0.7	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Oithona simplex</i>	0	0	0.1	0.6	0.7	0.2
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0.4	0	1.0	5.7	13.0	0
<i>Oncaea mediterranea</i>	0	0	0	0	0	0
<i>Oncaea venusta</i>	0	0	0.5	0	0.9	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0.4	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
Benthic harpacticoid females	4.1	32.1	5.9	11.1	1.4	0

TABLE 7-1 CONT.'D

	10-30-64	11-24-64	12-17-64	1-9-65	2-28-65	3-23-65
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0
<i>Acartia lilljeborgii</i>	20.1	56.7	0.3	0.5	0	0
<i>Acartia tonsa</i>	0.5	0	1.0	0.2	4.6	2.5
<i>Calanopia americana</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0	0	0	0
<i>Calocalanus styliremis</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	14.4	9.8
<i>Centropages velificatus</i>	0	0.3	0.2	0.2	0	0.4
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0
<i>Clausocalanus furcatus</i>	0	0	0	0.2	0	1.4
<i>Clausocalanus jobei</i>	0	0	0	0	0	0.4
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	1.9	2.0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0.1	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Paracalanus aculeatus</i>	14.5	0.5	0	0	0	0
<i>Paracalanus crassirostris</i>	0	4.5	38.1	10.1	53.6	1.8
<i>Paracalanus indicus</i>	0	6.1	34.9	25.0	1.3	18.6
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	0	0.8	1.7	23.1	0.1	7.7
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp.1</i>	0	0	0	0	0	0
<i>Temora styliifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	0	12.6	1.7	2.4	0.7	14.4
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0	3.7	0.5	1.2	0.3	0
<i>Corycaeus americanus</i>	0	0	1.2	11.8	0.6	1.8
<i>Corycaeus giesbrechti</i>	0	0.5	0.2	0	0	0
<i>Farranula gracilis</i>	0	0	0	0	0	0
<i>Farranula rostrata</i>	0	0	0	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0	0	0.1	0
<i>Lichomolgus sp.2</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	1.3	0	0	0.9	1.0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona minuta</i>	6.6	0.3	0	0	0	0
<i>Oithona nana</i>	44.9	3.7	11.0	12.1	18.6	4.9
<i>Oithona plumifera</i>	0	0.3	0	0.2	1.5	0
<i>Oithona similis</i>	0	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Oithona simplex</i>	0	0	0	0.2	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0.1	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	0	0	0.3	0.3	0	2.1
<i>Oncaea mediterranea</i>	0	0	0	0.2	0	0
<i>Oncaea venusta</i>	0	0.3	0	0.2	0	0.4
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0.1	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0.2	0	0	0
Benthic harpacticoid females	12.1	7.8	6.7	11.4	2.5	34.0

TABLE 7-1 CONT. 'D

	4-25-65	5-31-65	6-13-65	8-13-65	12-11-65
<u>CALANOIDA</u>					
<i>Acartia danae</i>	0.9	0.9	0.3	48.6	0
<i>Acartia lilljeborgii</i>	0	3.1	4.7	0.3	0
<i>Acartia tonsa</i>	1.4	26.9	0.2	0.3	4.8
<i>Calanopia americana</i>	0	0	0.7	10.4	0
<i>Calocalanus gracilis</i>	0	0.3	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0.3	0
<i>Calocalanus pavoninus</i>	0	0	0.2	0	0
<i>Calocalanus styliremis</i>	0	0.3	0	0	0
<i>Centropages hamatus</i>	0.4	0	0	0	0
<i>Centropages velificatus</i>	2.9	0.3	0	3.4	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0
<i>Clausocalanus furcatus</i>	1.3	0	0	0	0.2
<i>Clausocalanus jobei</i>	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0.3	0.7	0	0
<i>Labidocera aestiva</i>	0.5	0.3	0.3	2.8	0
<i>Labidocera scotti</i>	0	0.3	0	0.3	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0

TABLE 7-1 CONT.'D

Paracalanus aculeatus	0.2	1.3	0.3	0	0.2
Paracalanus crassirostris	4.3	16.6	8.7	0.3	23.2
Paracalanus indicus	25.3	27.2	67.9	4.0	12.4
Paracalanus nudus	0	0	0	0	0
Paracalanus quasimodo	15.0	0.9	4.5	0.6	0.4
Paracandacia bispinosa	0	0	0	0	0
Pseudodiaptomus sp.1	0	0	0	0	0
Temora stylifera	0	0	0	0	0
Temora turbinata	1.4	0.3	0.2	0.9	6.4
<u>CYCLOPOIDA</u>					
Copilia mirabilis	0	0	0	0	0
Corycaeus amazonicus	1.3	3.1	0.2	1.2	0
Corycaeus americanus	0.7	1.3	0	2.1	0
Corycaeus giesbrechti	0	0	0	0.3	1.0
Farranula gracilis	0	0	0	0	0
Farranula rostrata	0	0	0	0	0
Lichomolgus sp.1	0	0	0	0.6	0
Lichomolgus sp.2	0	1.9	0	0	0
Oithona colcarva	0.2	0	0	0	7.2
Oithona decipiens	0	0	0	0	0
Oithona hebes	0	0.3	0	0	0.2
Oithona minuta	0	0	0.5	0	0.2
Oithona nana	1.8	9.1	5.0	9.8	3.7
Oithona plumifera	0	1.3	0	0.3	0
Oithona similis	0	0	0	0	0

TABLE 7-1 CONT.'D

<i>Oithona simplex</i>	0	0	0.3	0	31.1
<i>Oithona tenuis</i>	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0
<i>Oncaea conifera</i>	0.4	0	0	0	0
<i>Oncaea media</i>	0.4	0.3	0.3	0	0.6
<i>Oncaea mediterranea</i>	0	0	0	0.3	0
<i>Oncaea venusta</i>	0.4	3.1	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0
<i>Saphirella tropica</i>	0.2	0.3	0	0.3	0.2
<i>Saphirella sp.</i>	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0
<u>HARPACTICOIDA</u>					
<i>Clytemnestra rostrata</i>	0.2	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0
Benthic harpacticoid females	40.9	0.3	4.9	12.8	8.1

TABLE 7-2

PERCENTAGE COMPOSITION OF ADULT FEMALE COPEPODS AT STATION W61

	3-9-63	4-5-63	6-28-63	8-29-63	10-4-63	11-3-63
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.2	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0.2	0.8
<i>Acartia tonsa</i>	0.8	0.3	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0.7	0	0
<i>Calanopia americana</i>	0	0	5.1	0.5	1.5	0.8
<i>Calanus tenuicornis</i>	0	0	0	0	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.4	0	0.2	0.5	0	0
<i>Calocalanus pavoninus</i>	0	0	0.2	0.2	0	0
<i>Calocalanus styliremis</i>	0	0.3	0.4	0.9	0	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	6.7	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	1.8	2.6	2.7	13.4
<i>Clausocalanus furcatus</i>	0.2	0.7	8.8	10.0	0.2	0
<i>Clausocalanus jobei</i>	0.4	1.4	2.6	2.6	0	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0	0

TABLE 7-2 CONT.'D

<i>Eucalanus pileatus</i>	0.2	0.3	0.2	1.2	3.2	4.7
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0.6	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0.5	0	0
<i>Lucicutia flavicornis</i>	0.2	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0.4	0	0	0
<i>Nannocalanus minor</i>	0.8	0.3	0.6	1.6	0	0
<i>Paracalanus aculeatus</i>	0	2.1	25.9	3.8	1.5	11.5
<i>Paracalanus crassirostris</i>	33.7	0.3	0	0	11.3	1.6
<i>Paracalanus denudatus</i>	0	0	0.2	0	0	0
<i>Paracalanus indicus</i>	0.4	13.4	17.7	5.3	15.7	11.5
<i>Paracalanus quasimodo</i>	25.1	43.2	9.0	5.9	10.1	3.6
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0.4	0.3	0.7	1.2
<i>Temora turbinata</i>	2.5	7.5	1.8	6.2	11.1	7.5
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	1.4	0	0
<i>Corycaeus amazonicus</i>	0.2	1.7	0.8	0	3.2	7.5
<i>Corycaeus americanus</i>	1.3	1.7	1.4	0	0	0.4
<i>Corycaeus giesbrechti</i>	0	0.3	0.8	1.7	2.2	5.1
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	2.8	3.3	0	0

TABLE 7-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	0.7	0.2	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0.2	0	0	0	0.7	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0.6	0	0.6	0	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	2.1	0	0	0.7	25.3	6.3
<i>Oithona plumifera</i>	3.3	0.3	2.0	14.3	0.2	4.3
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0.2	0	0	0	0	0
<i>Oithona simplex</i>	0	0	0	0	0.2	0
<i>Oithona tenuis</i>	0	0	0.6	0	0	0
<i>Oithona</i> sp. 1	0.2	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	2.9	1.7	2.6	4.7	0	0
<i>Oncaea mediterranea</i>	0.2	1.4	0.2	7.1	0	0
<i>Oncaea venusta</i>	0.2	1.4	2.9	23.3	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.2	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0	0	0.2	0
<i>Clytemnestra scutellata</i>	0	0	0.2	0.2	0	0
<i>Macrosetella gracilis</i>	0	0	0.2	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0	0	0
Benthic harpacticoid females	16.1	20.9	9.4	0.7	9.6	19.8

TABLE 7-2 CONT.'D

<i>Eucalanus pileatus</i>	1.9	3.8	0	0.5	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0.2
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0.5	4.6	0.1	0	0	0.7
<i>Paracalanus crassirostris</i>	7.4	0.1	49.9	12.2	3.0	3.7
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	18.4	30.0	2.3	10.2	8.8	11.7
<i>Paracalanus quasimodo</i>	34.9	5.7	6.0	63.0	72.9	6.5
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0.2	0.4	0	0	0	0
<i>Temora turbinata</i>	12.6	1.3	0.6	0.3	0.9	2.2
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.9	1.7	0.1	0	1.5	3.0
<i>Corycaeus americanus</i>	3.0	6.8	5.1	1.8	5.5	6.7
<i>Corycaeus giesbrechti</i>	2.1	1.2	0	0	0	0.2
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0.2	0	0	0	0

TABLE 7-2 CONT. 'D

	6-26-64	7-17-64	8-31-64	9-25-64	10-30-64	11-24-64
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.2	0	1.0	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	41.1	1.5	1.7
<i>Acartia tonsa</i>	0	0	0	0.5	0	0
<i>Acrocalanus longicornis</i>	0	0	0.3	0	0.2	0
<i>Calanopia americana</i>	0	1.1	0	1.6	1.5	0
<i>Calanus tenuicornis</i>	0	0	0.9	0	0	0
<i>Calocalanus gracilis</i>	0	0	0.1	0	0	0
<i>Calocalanus pavo</i>	0	0	0.4	0	0	0
<i>Calocalanus pavoninus</i>	1.0	0	1.6	0	0	0
<i>Calocalanus styliremis</i>	0.8	0.1	1.0	0	0	0
<i>Calocalanus sp. 4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0.5	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	4.0	1.5	0.7	4.7	2.7	0.6
<i>Clausocalanus furcatus</i>	2.8	1.2	24.7	0	1.1	0
<i>Clausocalanus jobei</i>	1.0	0.1	24.2	0	0	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0.1	0	0	0

TABLE 7-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	0.1	0.3	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0.2	0	0	0	0	0
<i>Oithona hebes</i>	4.9	0.5	0	0.3	0	0
<i>Oithona minuta</i>	0	0	0	3.7	0	0
<i>Oithona nana</i>	0.8	0.2	0	4.5	19.0	3.9
<i>Oithona plumifera</i>	1.5	0.6	4.1	0	5.1	0.2
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	0	0.2	0	0	0.6	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0	0	0	0	0	0
<i>Oncaea conifera</i>	0.7	0	0.3	0	0	0
<i>Oncaea media</i>	17.8	57.6	13.3	0	0.2	0
<i>Oncaea mediterranea</i>	1.3	0.2	1.6	0	2.5	0
<i>Oncaea venusta</i>	4.3	0.2	7.6	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0.2
<i>Saphirella</i> sp.	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0.1	0.4	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.3	0.1	0	0	0	0
<i>Clytemnestra scutellata</i>	0.2	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0.4	0
<i>Microsetella norvegica</i>	0	0	0.1	0	0	0
Benthic harpacticoid females	5.1	16.1	0.3	1.9	0.4	0.6

TABLE 7-2 CONT. 'D

<i>Eucalanus pileatus</i>	1.4	0.2	0	0.5	0.2	0.8
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0.2	0	5.0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0.2
<i>Paracalanus aculeatus</i>	0.3	0	0.6	0	0	4.8
<i>Paracalanus crassirostris</i>	0.9	24.7	17.8	2.4	6.2	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	62.4	15.3	40.0	32.0	41.4	88.6
<i>Paracalanus quasimodo</i>	5.2	41.1	2.7	16.3	22.6	1.3
<i>Pontella meadii</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0.2	0.2	0	0	0.4
<i>Temora turbinata</i>	2.0	1.3	1.7	6.2	0.8	1.1
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.8	0	1.7	1.1	0.8	0
<i>Corycaeus americanus</i>	3.0	1.8	2.9	1.4	0.5	0
<i>Corycaeus giesbrechti</i>	0.2	0	0.2	0	0	0
<i>Corycaeus latus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	0	0	0	0

TABLE 7-2 CONT. 'D

	6-13-65	8-13-65	12-11-65
<u>CALANOIDA</u>			
<i>Acartia danae</i>	1.7	0.2	0.2
<i>Acartia lilljeborgii</i>	0	0	0
<i>Acartia tonsa</i>	0	0	0
<i>Acrocalanus longicornis</i>	0	1.2	0
<i>Calanopia americana</i>	0	0.2	0
<i>Calanus tenuicornis</i>	0	0	0
<i>Calocalanus gracilis</i>	0	0.2	0
<i>Calocalanus pavo</i>	0	0	0
<i>Calocalanus pavoninus</i>	0.7	0.3	0
<i>Calocalanus styliremis</i>	0	1.5	0
<i>Calocalanus sp. 4</i>	0	0	0
<i>Candacia curta</i>	0	0	0
<i>Centropages hamatus</i>	0	0	0
<i>Centropages velificatus</i>	0.7	0.9	1.3
<i>Clausocalanus furcatus</i>	0.3	21.5	0.4
<i>Clausocalanus jobei</i>	0.3	0.2	0
<i>Clausocalanus mastigophorus</i>	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0
<i>Clausocalanus paululus</i>	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0

TABLE 7-2 CONT.'D

<i>Lichomolgus</i> sp. 1	0	0	0
<i>Lubbockia squillimana</i>	0	0	0
<i>Oithona colcarva</i>	0	0	0
<i>Oithona decipiens</i>	0	0	0
<i>Oithona hebes</i>	0	0.2	0
<i>Oithona minuta</i>	0	0	0
<i>Oithona nana</i>	3.5	0.2	10.0
<i>Oithona plumifera</i>	9.3	8.1	0
<i>Oithona setigera</i>	0	0	0
<i>Oithona similis</i>	0	0	0
<i>Oithona simplex</i>	0	0	0
<i>Oithona tenuis</i>	0	0	0
<i>Oithona</i> sp. 1	0	0	0
<i>Oncaea conifera</i>	0	0	0
<i>Oncaea media</i>	12.8	0.7	15.5
<i>Oncaea mediterranea</i>	1.0	3.8	0
<i>Oncaea venusta</i>	3.1	13.3	0.2
<i>Saphirella tropica</i>	0	0	0
<i>Saphirella</i> sp.	0	0	0
<i>Sapphirina nigromaculata</i>	0.3	0	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0.3	0.3	0
<i>Clytemnestra scutellata</i>	0	0	0
<i>Macrosetella gracilis</i>	0	0.2	0
<i>Microsetella norvegica</i>	0	0	0
Benthic harpacticoid females	3.5	2.2	10.4

TABLE 7-3 CONT.'D

<i>Clausocalanus furcatus</i>	0.8	5.9	7.8	0	24.2	10.3
<i>Clausocalanus jobei</i>	0.2	1.6	3.5	0	2.3	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0.2	0	0.1	0	0	0
<i>Clausocalanus paululus</i>	0	0	0.2	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	2.3	0.2	0.1	0	0	0
<i>Eucalanus hyalinus</i>	0.8	0	0	0	0	0
<i>Eucalanus monachus</i>	0.2	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	1.2	0	0	0.8	1.4
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0.2	0	0.1	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0.2	0	0	0
<i>Labidocera aestiva</i>	0	0	0	3.0	0	0
<i>Labidocera scotti</i>	0	0	0	0.4	0	0
<i>Lucicutia flavicornis</i>	1.3	0	0.4	0	0	0
<i>Lucicutia gaussae</i>	0.2	0	0.1	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0.3	0	0	0
<i>Mecynocera clausii</i>	0	0	3.1	0	0	0
<i>Nannocalanus minor</i>	2.5	1.8	0.6	0	0	0.2
<i>Paracalanus aculeatus</i>	2.5	1.8	0.7	0	10.9	7.4
<i>Paracalanus crassirostris</i>	1.3	0.6	0	2.8	0	0.7
<i>Paracalanus denudatus</i>	0	0	0	0	0	0

TABLE 7-3 CONT. 'D

<i>Corycaeus latus</i>	0	0	0	0	0.6	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.2	0.2	0	0	0	0.2
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	7.7	0	10.4	0.2
<i>Farranula rostrata</i>	0.6	0	0	0	0	0
<i>Lichomolgus sp.1</i>	2.1	1.4	0.6	0	0	1.0
<i>Lubbockia squillimana</i>	0	0	0.5	0	0	0
<i>Oithona colcarva</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0.6	0	0.1	0	0	0
<i>Oithona hebes</i>	0.8	0.2	0	0	0	0
<i>Oithona minuta</i>	0	0	0	1.1	0	0
<i>Oithona nana</i>	0.6	0.2	0	1.7	0.6	2.1
<i>Oithona plumifera</i>	3.1	2.6	11.3	0	10.0	6.0
<i>Oithona setigera</i>	0.2	0	0	0	0	0
<i>Oithona similis</i>	0.6	0.2	0	0	0	0
<i>Oithona simplex</i>	0	0	0	0.2	0	0.2
<i>Oithona tenuis</i>	0.2	0.2	0.4	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	1.5	0	0	0	0	0
<i>Oithona sp.2</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0.2	0.2	0.5	0	0	0
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	13.6	12.1	22.3	3.0	1.0	0
<i>Oncaea mediterranea</i>	2.1	3.8	6.0	0	0.4	0

TABLE 7-3 CONT.'D

	11-3-63	12-2-63	12-21-63	1-29-64	3-19-64	4-16-64
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.1	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0.1	0	1.6	0.5	0.4
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0.4	0.1	0.3	0.1	0	0
<i>Aetideus acutus</i>	0	0	0.1	0	0	0
<i>Calanopia americana</i>	5.0	1.8	1.8	0	0	0
<i>Calanus tenuicornis</i>	0	0	0	0.1	0	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0.1	0	0	0.1	0	0
<i>Calocalanus pavoninus</i>	0	0.1	0	0.3	0	0
<i>Calocalanus styliremis</i>	0	0.1	0.3	0.2	0	0.1
<i>Calocalanus sp.2</i>	0	0	0	0	0	0
<i>Calocalanus sp.3</i>	0	0	0	0.1	0	0.2
<i>Calocalanus sp.4</i>	0	0	0.1	0.5	0	0
<i>Candacia curta</i>	0	0	0	0	0.3	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0.3	0	0
<i>Centropages velificatus</i>	1.5	0.1	0.6	0	0	0.1
<i>Clausocalanus arcuicornis</i>	0	0	0	0.1	0.6	0

TABLE 7-3 CONT. 'D

<i>Paracalanus indicus</i>	41.9	24.9	25.8	17.7	7.6	12.8
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	2.1	1.1	9.6	29.8	11.7	44.7
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	2.8	0	0
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0.1	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0.2	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0.5	0	4.3	0	0
<i>Temora stylifera</i>	0.1	0	0	0	0.2	0
<i>Temora turbinata</i>	0.8	0.9	0.7	0.3	0.3	0.2
<i>Temoropia mayumbaensis</i>	0	0	0	0.1	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0.1	0	0	0	0	0
<i>Corycaeus amazonicus</i>	7.8	11.5	1.4	1.0	1.1	0.9
<i>Corycaeus americanus</i>	1.0	6.1	2.5	1.8	6.8	1.3
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus furcifer</i>	0	0	0	0.1	0	0
<i>Corycaeus giesbrechti</i>	1.9	2.0	2.1	0	0	0.2

TABLE 7-3 CONT.'D

<i>Oncaea venusta</i>	1.3	1.5	3.2	1.1	0.9	2.4
<i>Oncaea similis</i>	0	0	0	0.4	0	0
<i>Saphirella tropica</i>	0.1	1.3	0	0	0	0
<i>Saphirella sp.</i>	0	0	0.1	0	0	0
<i>Sapphirina intestinata</i>	0	0	0	0	0	0.1
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.2	1.9	2.1	0.1	0.3	0.1
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.1
<i>Macrosetella gracilis</i>	0	0	0.6	0.1	0.2	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
<i>Miracia minor</i>	0	0	0	0	0	0
Benthic harpacticoid females	7.9	13.2	7.9	5.1	13.2	3.4

TABLE 7-3 CONT. 'D

<i>Paracalanus indicus</i>	25.7	7.7	1.4	0.7	12.9	8.5
<i>Paracalanus nudus</i>	0	0	0.2	0	0	0
<i>Paracalanus quasimodo</i>	24.0	5.6	0	4.3	31.3	2.4
<i>Paracandacia simplex</i>	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0.1	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0.2	0.3	1.4	0
<i>Temora turbinata</i>	7.5	6.5	3.0	1.7	3.5	3.8
<i>Temoropia mayumbaensis</i>	0	0	0	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.5	4.2	0.2	0	16.6	4.8
<i>Corycaeus americanus</i>	1.7	0.4	0	0	1.7	0.2
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus furcifer</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0.1	0	0.7	0.5	3.3	9.1

TABLE 7-3 CONT. 'D

<i>Corycaeus latus</i>	0	0	0.2	0.3	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0.1	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	5.6	13.1	1.2	0.4
<i>Farranula rostrata</i>	0	0	1.4	0.3	0	0
<i>Lichomolgus sp.1</i>	0.4	0	1.0	0.4	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0.4	0	0	0	0
<i>Oithona decipiens</i>	0	0	0.3	0	0	0
<i>Oithona hebes</i>	0	0	0.7	0	3.0	0.2
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0.8	47.1	0	0	0	8.9
<i>Oithona plumifera</i>	0.2	0.4	4.2	1.7	2.6	10.9
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0.8	0	0	0.2	0	0.2
<i>Oithona simplex</i>	0	0	0.2	0	0.3	0.2
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oithona sp.2</i>	1.5	0	0	0	0	0
<i>Oncaea conifera</i>	0.1	0	0.2	0.8	0	0.4
<i>Oncaea dentipes</i>	0	0	0	0	0	0
<i>Oncaea media</i>	1.0	0.2	15.6	9.6	0	2.6
<i>Oncaea mediterranea</i>	0.8	0	8.9	2.7	0.3	0

TABLE 7-3 CONT. 'D

	11-24-64	12-17-64	1-8-65	2-28-65	3-22-65	4-24-65
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0.6	0.2
<i>Acartia lilljeborgii</i>	0	0	0	0	0	0
<i>Acartia tonsa</i>	0	0	0.6	0.3	0.2	1.6
<i>Acrocalanus andersoni</i>	0	0	0.2	0	0.4	0
<i>Acrocalanus longicornis</i>	0.8	0.5	0.1	0.3	0	0
<i>Aetideus acutus</i>	0	0	0	0	0.2	0
<i>Calanopia americana</i>	8.1	2.5	1.6	0	0.4	0.2
<i>Calanus tenuicornis</i>	0	0	0.1	0	0	0
<i>Calocalanus gracilis</i>	0	0.1	0	0	0.2	0
<i>Calocalanus pavo</i>	0.2	0.1	0	0	0.6	0
<i>Calocalanus pavoninus</i>	0.2	0.1	0.5	0	0.4	0
<i>Calocalanus styliremis</i>	0.6	1.0	0.8	0.8	0.8	0
<i>Calocalanus sp.2</i>	0	0.1	0	0	0	0
<i>Calocalanus sp.3</i>	0	0	0.1	0	0	0
<i>Calocalanus sp.4</i>	0	0	0	0	0	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Candacia pachydactyla</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0.4	0.5	0	0.2
<i>Centropages velificatus</i>	5.4	1.0	0.9	0.3	0	0.8
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0	0

TABLE 7-3 CONT. 'D

<i>Paracalanus indicus</i>	16.2	25.7	17.0	15.4	15.6	43.4
<i>Paracalanus nudus</i>	0	0.1	0.1	0	0	0
<i>Paracalanus quasimodo</i>	3.6	9.1	19.5	46.6	5.8	13.8
<i>Paracandacia simplex</i>	0	0	0.1	0	0.2	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0.1	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0	0.3	0	0
<i>Pleuromamma piseki</i>	0	0	0	0	0.2	0
<i>Pontella securifer</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	1.7	0
<i>Scaphocalanus subcurtus</i>	0	0	0	0	0	0
<i>Scolecithrix bradyi</i>	0	0	0	0	0.2	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0.2	1.1	0.1	2.0	1.5	0.8
<i>Temora stylifera</i>	0.5	0.2	0.1	0	1.5	0
<i>Temora turbinata</i>	0.8	1.2	2.1	1.0	1.2	1.4
<i>Temoropia mayumbaensis</i>	0	0	0	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	2.1	1.6	1.6	0.8	1.5	1.4
<i>Corycaeus americanus</i>	1.5	0.7	0.6	2.8	1.2	1.4
<i>Corycaeus clausi</i>	0	0	0.1	0	0.4	0
<i>Corycaeus furcifer</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	4.5	0.8	0.4	0.8	1.2	0

TABLE 7-3 CONT.'D

<i>Oncaea venusta</i>	13.1	4.5	5.9	0	5.8	0
<i>Oncaea similis</i>	0	0.1	0	0	0	0
<i>Saphirella tropica</i>	0	0.1	0	0	0	0
<i>Saphirella</i> sp.	0	0.1	0	0	0	0
<i>Sapphirina intestinata</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.5	0.1	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.5	0.8	0.5	0.3	0.6	0.2
<i>Clytemnestra scutellata</i>	0	0.1	0	0	0	0
<i>Macrosetella gracilis</i>	0.2	0.4	0.5	0	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
<i>Miracia minor</i>	0	0	0	0	0	0
Benthic harpacticoid females	2.3	1.9	1.8	4.8	1.0	11.2

TABLE 7-3 CONT.'D

<i>Clausocalanus furcatus</i>	1.2	0.5	8.1
<i>Clausocalanus jobei</i>	0.7	1.4	0.1
<i>Clausocalanus mastigophorus</i>	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0
<i>Clausocalanus paululus</i>	0	0	0
<i>Clausocalanus pergens</i>	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0
<i>Eucalanus monachus</i>	0	0	0
<i>Eucalanus pileatus</i>	7.4	0.9	2.9
<i>Euchaeta marina</i>	0	0	0.3
<i>Euchaeta paraconcinna</i>	0	0	0
<i>Haloptilus longicornis</i>	0	0.2	0
<i>Heterorhabdus spinifer</i>	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0
<i>Labidocera aestiva</i>	0	0	0
<i>Labidocera scotti</i>	0	0	0
<i>Lucicutia flavicornis</i>	0.2	0	0
<i>Lucicutia gaussae</i>	0	0	0
<i>Lucicutia paraclausi</i>	0.2	0.7	0
<i>Mecynocera clausii</i>	0	0	0.1
<i>Nannocalanus minor</i>	2.6	0	0.6
<i>Paracalanus aculeatus</i>	4.3	4.0	8.1
<i>Paracalanus crassirostris</i>	0.5	0.2	0.1
<i>Paracalanus denudatus</i>	0	0	0

TABLE 7-3 CONT.'D

<i>Corycaeus latus</i>	0	0.2	1.9
<i>Corycaeus limbatus</i>	0	0	0
<i>Corycaeus speciosus</i>	0	0	0.3
<i>Corycaeus typicus</i>	0	0	0
<i>Farranula gracilis</i>	0	0.7	11.6
<i>Farranula rostrata</i>	0	0	0
<i>Lichomolgus sp.1</i>	0	0	0
<i>Lubbockia squillimana</i>	0.2	0	0.1
<i>Oithona colcarva</i>	0	0	0
<i>Oithona decipiens</i>	0	0	0
<i>Oithona hebes</i>	0	0.5	0.1
<i>Oithona minuta</i>	0	0	0
<i>Oithona nana</i>	0.5	0.5	0.1
<i>Oithona plumifera</i>	0.2	5.2	15.1
<i>Oithona setigera</i>	0	0	0
<i>Oithona similis</i>	0	0	0
<i>Oithona simplex</i>	0	0	0
<i>Oithona tenuis</i>	0	0	0
<i>Oithona vivida</i>	0	0	0
<i>Oithona sp.1</i>	0	0.9	0
<i>Oithona sp.2</i>	0	0	0
<i>Oncaea conifera</i>	0	0	0
<i>Oncaea dentipes</i>	0	0	0
<i>Oncaea media</i>	2.4	5.2	0.4
<i>Oncaea mediterranea</i>	1.4	6.9	0

TABLE 7-4

PERCENTAGE COMPOSITION OF ADULT FEMALE COPEPODS AT STATION W13

	4-6-63	5-2-63	5-22-63	6-27-63	7-16-63	8-28-63
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0.1	0.1	1.0
<i>Acartia lilljeborgii</i>	0	0	0	15.2	0.5	0
<i>Acartia tonsa</i>	52.8	13.8	0.5	20.7	0.1	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0	0	0	0
<i>Calanopia americana</i>	0	0	0	1.5	0.9	0
<i>Calocalanus gracilis</i>	0	0	0	0	0	0
<i>Calocalanus pavo</i>	0	0	0	0	0	0.5
<i>Calocalanus pavoninus</i>	0	0	0	0.4	0.1	0
<i>Calocalanus styliremis</i>	0	0	0	0	0.4	0
<i>Candacia curta</i>	0	0	0	0	0	0
<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0	0	0.2	1.9	1.6	12.1
<i>Clausocalanus furcatus</i>	0	0	0.1	0.3	0	0
<i>Clausocalanus jobei</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	0	0.2	2.2	0.9	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0.7	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0.1	0.3	2.4
<i>Lucicutia gaussae</i>	0	0	0	0	0	0

TABLE 7-4 CONT.'D

<i>Oncaea media</i>	0	0	0.1	1.0	35.3	1.4
<i>Oncaea mediterranea</i>	0	0	0	0.1	0	0
<i>Oncaea venusta</i>	0	0.6	0	0	0	0
<i>Saphirella sp.</i>	0	0.3	0	0.1	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.2	0	0.2	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0.1	0	0
Benthic harpacticoid females	0	6.3	81.1	5.1	1.6	7.7

TABLE 7-4 CONT.'D

<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	1.0	0.6	0.9	0	0	0
<i>Paracalanus crassirostris</i>	27.5	25.3	0.9	33.8	49.0	68.7
<i>Paracalanus indicus</i>	1.0	7.4	6.2	0.6	0.8	0.2
<i>Paracalanus quasimodo</i>	5.9	3.7	8.1	2.8	2.3	16.0
<i>Pontellopsis villosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0.4	0
<i>Temora turbinata</i>	4.6	4.5	3.6	0.3	0	0
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	2.0	8.3	5.8	0	0	0
<i>Corycaeus americanus</i>	0.3	2.5	20.3	5.5	1.9	0.9
<i>Corycaeus giesbrechti</i>	2.0	1.7	0.6	0	0	0
<i>Corycaeus speciosus</i>	0	0	0	0	0.4	0
<i>Farranula gracilis</i>	0	0	0	0	0	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0.4
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	1.6	0	0	1.4	0	0
<i>Oithona minuta</i>	0	0	0	0	0	0
<i>Oithona nana</i>	44.9	9.5	36.7	0.8	16.0	0.8
<i>Oithona plumifera</i>	0	0.6	0.6	0	0	0.2
<i>Oithona setigera</i>	0	0	0	0	0.4	0
<i>Oithona similis</i>	0	0	0	0	0	0
<i>Oithona simplex</i>	2.3	0	0	0	0	0

TABLE 7-4 CONT. 'D

	4-18-64	5-25-64	6-27-64	7-18-64	9-1-64	10-31-64
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.5	0	0	0
<i>Acartia lilljeborgii</i>	0	0	0	0.3	0	5.0
<i>Acartia tonsa</i>	95.8	88.3	1.4	0.3	0.9	0
<i>Acrocalanus andersoni</i>	0	0	0	0	0	0
<i>Acrocalanus longicornis</i>	0	0	0.4	0	0.4	0
<i>Calanopia americana</i>	0	0	0	0	0.9	0
<i>Calocalanus gracilis</i>	0	0	0.2	0	0	0
<i>Calocalanus pavo</i>	0	0	0.9	0	0	0
<i>Calocalanus pavoninus</i>	0	0	0.2	0	0	0
<i>Calocalanus styliremis</i>	0	0	0.2	0	0	0
<i>Candacia curta</i>	0	0	0.2	0	0	0
<i>Centropages hamatus</i>	0.5	0	0	0	0	0
<i>Centropages velificatus</i>	0	0.6	4.9	4.8	0.9	0.5
<i>Clausocalanus furcatus</i>	0	0	43.4	0.9	0.4	0
<i>Clausocalanus jobei</i>	0	0	6.7	0	0	0
<i>Eucalanus pileatus</i>	0	0	0.5	0	2.1	0
<i>Ischnocalanus plumulosis</i>	0	0	0.2	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0.2
<i>Labidocera scotti</i>	0	0	0	0	0.4	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0

TABLE 7-4 CONT. 'D

Oncaea media	0	0	8.5	0	12.0	0
Oncaea mediterranea	0	0	0.2	0.6	0	0
Oncaea venusta	0	0	2.2	0.6	0	0
Saphirella sp.	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0	0	0.2	0	0.4	0
Macrosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	0.2	1.9	5.2	29.8	21.8	29.3

TABLE 7-4 CONT.'D

<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0	0
<i>Paracalanus aculeatus</i>	0	0	0.4	0	0.2	0.5
<i>Paracalanus crassirostris</i>	5.8	70.7	7.2	40.9	24.1	2.3
<i>Paracalanus indicus</i>	36.3	2.4	28.7	2.4	21.2	11.4
<i>Paracalanus quasimodo</i>	24.9	1.0	12.5	2.4	20.7	4.6
<i>Pontellopsis villosa</i>	0	0	0	0	0	0
<i>Pseudodiaptomus sp. 2</i>	0	0	0	0	0	0
<i>Scolecithrix danae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0	0	0	0
<i>Temora turbinata</i>	4.2	0.4	3.2	0	0	1.8
<u>CYCLOPOIDA</u>						
<i>Corycaeus amazonicus</i>	0.5	0	2.5	0.6	0.2	3.7
<i>Corycaeus americanus</i>	1.4	0	1.1	0.6	0.2	0.9
<i>Corycaeus giesbrechti</i>	0	0	1.1	0.6	0	0.5
<i>Corycaeus speciosus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0	0	0	0	0	0
<i>Lichomolgus sp. 2</i>	0	0	0	0	0	0
<i>Lichomolgus sp.</i>	0	0	0	0	0	0
<i>Oithona colcarva</i>	0	0.2	0	1.2	1.7	0
<i>Oithona minuta</i>	0	0	0	0	0	2.3
<i>Oithona nana</i>	13.8	3.6	0.7	3.7	12.6	52.5
<i>Oithona plumifera</i>	0	0	1.4	0	0	4.1
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0	0	0.4	0	0	0
<i>Oithona simplex</i>	0	0	0	0	0	1.4

TABLE 7-4 CONT. 'D

	9-12-65	12-12-65
<u>CALANOIDA</u>		
<i>Acartia danae</i>	0	0
<i>Acartia lilljeborgii</i>	2.4	1.0
<i>Acartia tonsa</i>	0.1	16.7
<i>Acrocalanus andersoni</i>	0	0
<i>Acrocalanus longicornis</i>	0.1	0
<i>Calanopia americana</i>	2.0	0
<i>Calocalanus gracilis</i>	0	0
<i>Calocalanus pavo</i>	0	0
<i>Calocalanus pavoninus</i>	0	0
<i>Calocalanus styliremis</i>	0	0
<i>Candacia curta</i>	0	0
<i>Centropages hamatus</i>	0	0.2
<i>Centropages velificatus</i>	7.0	0.7
<i>Clausocalanus furcatus</i>	0.1	0
<i>Clausocalanus jobei</i>	0	0
<i>Eucalanus pileatus</i>	1.7	0.2
<i>Ischnocalanus plumulosus</i>	0	0
<i>Labidocera aestiva</i>	0	0
<i>Labidocera scotti</i>	2.5	0
<i>Lucicutia gausgae</i>	0	0

TABLE 7-4 CONT.'D

Oncaea media	0.3	2.7
Oncaea mediterranea	0	0
Oncaea venusta	0	0
Saphirella sp.	0	0
<u>HARPACTICOIDA</u>		
Clytemnestra rostrata	0	0
Macrosetella gracilis	0	0
Benthic harpacticoid females	0.1	20.7

TABLE 7-5 CONT.'D

<i>Eucalanus pileatus</i>	0	0	5.7	0.3	0.4	4.3
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0.1	0	0
<i>Labidocera aestiva</i>	0.2	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0.3	0	0.1	0	0
<i>Nannocalanus minor</i>	0	0	0.4	0	0.4	0
<i>Paracalanus aculeatus</i>	0	0	2.5	5.8	9.0	17.7
<i>Paracalanus crassirostris</i>	2.0	0.3	1.4	0.1	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	19.9	3.8	3.9	39.2	0.9	7.8
<i>Paracalanus nudus</i>	0	0	0.4	0.1	0	0
<i>Paracalanus quasimodo</i>	26.1	32.8	29.1	2.0	1.6	5.5
<i>Paracandacia simplex</i>	4.6	26.6	33	41.2	2.5	13.3
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0	0
<i>Temora stylifera</i>	0	0	0.7	0.1	0.2	0
<i>Temora turbinata</i>	6.7	3.5	22.7	10.3	2.5	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0

TABLE 7-5 CONT.'D

<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.2	0.9	0.4	0	0	0.3
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
Benthic harpacticoid females	3.7	17.4	1.8	0	0.7	0.9

TABLE 7-5 CONT.'D

Heterorhabdus papilliger	0	0	0	0	0.5	0
Ischnocalanus plumulosus	0	0	0	0.3	0	0
Labidocera aestiva	0	0	0	0	0	0
Lucicutia flavicornis	0	0	0	0.3	0	0
Lucicutia gaussae	0	0	0	0	0	0
Lucicutia paraclausi	0	0	0	0	0	0
Mecynocera clausii	0	0	0	0	0	0
Nannocalanus minor	0	0	0	5.3	0	0
Paracalanus aculeatus	5.5	18.4	11.9	2.6	0.5	0.2
Paracalanus crassirostris	0.9	0	0.5	0.3	2.4	5.8
Paracalanus denudatus	0	0	0	0.3	0	0
Paracalanus indicus	8.1	13.7	11.1	12.3	13.2	18.9
Paracalanus nudus	0	0	0	0	0	0
Paracalanus quasimodo	6.8	3.2	10.1	18.2	39.2	34.4
Paracandacia simplex	14.7	10.9	21.2	30.5	52.4	53.9
Parundinella spinodenticula	0	0	0	1.0	0	0
Rhincalanus cornutus	0	0	0	1.0	0	0
Stephos deichmannae	0	0	0	0.3	0	0
Temora stylifera	1.3	1.1	0.3	0.7	0	0
Temora turbinata	1.8	0.5	0.3	3.6	2.4	0.5
Undinula vulgaris	0	0	0	0	0	0
<u>CYCLOPOIDA</u>						
Copilia lata	0	0	0	0	0	0
Copilia mirabilis	0	0	0	0.3	0	0
Corycaeus amazonicus	7.7	7.9	4.0	0.3	2.4	5.4
Corycaeus americanus	0.4	3.7	5.1	1.3	3.3	12.1

TABLE 7-5 CONT.'D

<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0.3	0.3	0	0
<i>Microsetella norvegica</i>	0	0	0.3	0	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
Benthic harpacticoid females	12.9	12.6	15.4	4.6	10.8	2.2

TABLE 7-5 CONT.'D

Heterorhabdus papilliger	0	0	0	0	0	0
Ischnocalanus plumulosus	0	0	0	0.1	0	0
Labidocera aestiva	0	0	0	0	0	0
Lucicutia flavicornis	0	0	0	0	0	0
Lucicutia gaussae	0	0	0	0.1	0	0
Lucicutia paraclausi	0	0	0	0	0	0
Mecynocera clausii	0	0	0	0	0	0
Nannocalanus minor	0	0	0.4	0.2	0	0
Paracalanus aculeatus	0	0.6	1.6	0.8	12.7	2.7
Paracalanus crassirostris	1.3	0	0	0	0	0
Paracalanus denudatus	0	0	0	0	0	0
Paracalanus indicus	14.6	19.0	13.3	0.5	4.9	12.0
Paracalanus nudus	0	0	0	0.1	0	0
Paracalanus quasimodo	48.6	52.8	18.6	1.6	6.5	51.3
Paracandacia simplex	0	0	0.2	0	0	0
Parundinella spinodenticula	0	0	0	0	0	0
Rhincalanus cornutus	0	0	0	0	0	0
Stephos deichmannae	0	0	0	0	0	0
Temora stylifera	0	0.4	0.4	0.4	1.8	0.1
Temora turbinata	0.5	3.3	1.1	1.3	2.5	4.5
Undinula vulgaris	0	0	0	0	2.1	0
<u>CYCLOPOIDA</u>						
Copilia lata	0	0	0	0	0	0
Copilia mirabilis	0	0	0	0	0	0
Corycaeus amazonicus	0.8	1.3	3.8	0.1	0.5	4.4
Corycaeus americanus	4.7	2.1	1.8	0.4	0.1	2.3

TABLE 7-5 CONT.'D

<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0	0	0	0.3	0
<i>Microsetella norvegica</i>	0	0	0	0.1	0	0
<i>Microsetella rosea</i>	0	0	0	0.1	0	0
Benthic harpacticoid females	4.9	9.2	1.1	20.0	8.3	2.9

TABLE 7-5 CONT.'D

<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gausgae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0.3	0	0.1
<i>Mecynocera clausii</i>	0	0	0	0	0	0
<i>Nannocalanus minor</i>	0	0	0	0	0.2	0.1
<i>Paracalanus aculeatus</i>	7.5	3.0	8.4	1.3	3.2	1.0
<i>Paracalanus crassirostris</i>	0	0	0.9	4.0	2.1	2.1
<i>Paracalanus denudatus</i>	0	0.3	0	0	0	0
<i>Paracalanus indicus</i>	0.7	13.7	25.2	13.7	22.9	19.9
<i>Paracalanus nudus</i>	0	0	0.3	0	0	0
<i>Paracalanus quasimodo</i>	1.6	3.7	8.8	20.0	21.4	19.6
<i>Paracandacia simplex</i>	2.3	17.4	34	33.7	44.3	29.5
	0	0	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0
<i>Stephos deichmannae</i>	0	0	0	0	0.2	0
<i>Temora stylifera</i>	0.2	0.3	0	0.3	0.4	0
<i>Temora turbinata</i>	1.0	0	0.3	5.3	1.9	0.3
<i>Undinula vulgaris</i>	0.2	0	0	0	0	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	1.7	5.0	0.8	0.7	1.1	2.1
<i>Corycaeus americanus</i>	0.7	7.3	0.6	6.0	0.6	2.9

TABLE 7-5 CONT. 'D

<i>Clytemnestra scutellata</i>	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0.2	0.7	0.3	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0	0	0
<i>Microsetella rosea</i>	0	0	0	0	0	0
Benthic harpacticoid females	49.3	6.3	2.6	13.0	0	31.5

TABLE 7-5 CONT.'D

<i>Heterorhabdus papilliger</i>	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.3	0	0	0
<i>Labidocera aestiva</i>	3.8	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0
<i>Nannocalanus minor</i>	0.3	0	0	0
<i>Paracalanus aculeatus</i>	1.3	0.9	0.5	6.5
<i>Paracalanus crassirostris</i>	1.5	0	0.5	0
<i>Paracalanus denudatus</i>	0	0	0	0
<i>Paracalanus indicus</i>	6.0	4.7	9.4	34.0
<i>Paracalanus nudus</i>	0	0	0	0
<i>Paracalanus quasimodo</i>	7.6	26.2	8.5	23.9
<i>Paracandacia simplex</i>	13.6	30.9	17.9	57.9
	0	0	0	0
<i>Parundinella spinodenticula</i>	0	0	0	0
<i>Rhincalanus cornutus</i>	0	0.3	0	0
<i>Stephos deichmannae</i>	0	0	0	0
<i>Temora stylifera</i>	0	3.8	5.2	0.2
<i>Temora turbinata</i>	0.5	0	23.0	0
<i>Undinula vulgaris</i>	0	0	0	0.6
<u>CYCLOPOIDA</u>				
<i>Copilia lata</i>	0	0	0	0.4
<i>Copilia mirabilis</i>	0	0	0	0
<i>Corycaeus amazonicus</i>	7.3	13.8	2.8	1.3
<i>Corycaeus americanus</i>	2.8	6.5	1.4	4.4

TABLE 7-5 CONT.'D

<i>Clytemnestra scutellata</i>	0	0.3	0	0
<i>Macrosetella gracilis</i>	0	0	0	0
<i>Microsetella norvegica</i>	0	0	0	0
<i>Microsetella rosea</i>	0	0	0	0.2
Benthic harpacticoid females	3.3	12.9	4.7	0.5

TABLE 7-6 CONT. 'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0.2
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0.1	0.5	4.4	0	0	0.2
<i>Eucalanus hyalinus</i>	0.5	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	1.0	0.9	0.3	0	0.2	0.2
<i>Eucalanus sewelli</i>	0.1	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0.2
<i>Euchaeta paraconcinna</i>	0	0	0.3	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.1	0.5	0	0.2	0	0.2
<i>Labidocera aestiva</i>	0.2	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0.3	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0.3	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0.2
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0.8	0	0	2.7
<i>Nannocalanus minor</i>	1.0	0	1.3	0.2	1.2	5.3
<i>Paracalanus aculeatus</i>	1.9	1.2	0	3.8	0.2	6.4
<i>Paracalanus crassirostris</i>	1.3	0	0	0	0	0
<i>Paracalanus denudatus</i>	0	0.5	0.3	0	0	0.2
<i>Paracalanus indicus</i>	4.7	19.4	2.3	1.2	0.3	0.4
<i>Paracalanus nudus</i>	0.1	0	0.3	1.8	0	0
<i>Paracalanus quasimodo</i>	37.1	14.0	4.1	17.2	1.5	0.9
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 7-6 CONT.'D

<i>Oithona plumifera</i>	3.5	14.3	1.0	13.2	10.7	9.3
<i>Oithona setigera</i>	0	0	0	0	0	0
<i>Oithona similis</i>	0.5	0	0	0	0	0
<i>Oithona tenuis</i>	0.4	0.9	0	0.5	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona sp.1</i>	0	0	0	0	0	0
<i>Oncaea conifera</i>	0	0	3.4	0.2	0	0
<i>Oncaea media</i>	7.9	4.4	16.5	0.8	2.3	1.3
<i>Oncaea mediterranea</i>	1.0	0.5	8.8	0.5	0.2	2.2
<i>Oncaea venusta</i>	1.1	6.5	2.1	7.7	0.3	4.9
<i>Oncaea sp.</i>	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona sp.</i>	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.1	0	0	0.3	0.2	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0.7
<i>Siphonostomata sp. 2</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.1	0.2	0	0	0	0
<i>Clytemnestra scutellata</i>	0.4	0	0	0	0	0
<i>Macrosetella gracilis</i>	0	0.2	0	0.9	0.3	0.9
Benthic harpacticoid females	19.9	0.5	5.2	0	0	0

TABLE 7-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0.4	0
<i>Clausocalanus paululus</i>	0	0	0	0.7	0	0
<i>Clausocalanus pergens</i>	0	0	0	0.3	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0.3	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0.7	0
<i>Eucalanus pileatus</i>	0.4	0.2	0	1.3	5.1	0.2
<i>Eucalanus sewelli</i>	0	0	0	0	0.2	0
<i>Euchaeta marina</i>	0	0	0	0	0.4	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0.2	0	0.3	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	1.3	0.2	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0.3	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0.3	0.9	0
<i>Nannocalanus minor</i>	0	0	0.7	1.3	1.9	0.2
<i>Paracalanus aculeatus</i>	4.1	13.1	4.9	10.4	1.2	0
<i>Paracalanus crassirostris</i>	0	0	0	0	0	2.9
<i>Paracalanus denudatus</i>	0	0	0.3	0.7	0.4	0
<i>Paracalanus indicus</i>	4.1	7.1	14.9	31.6	12.4	10.7
<i>Paracalanus nudus</i>	0	0	0	0.7	0	0
<i>Paracalanus quasimodo</i>	15.1	10.3	21.5	3.0	14.7	52.0
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 7-6 CONT. 'D

<i>Oithona plumifera</i>	14.3	32.2	14.6	4.7	4.6	2.3
<i>Oithona setigera</i>	0	0	0	0	0.2	0
<i>Oithona similis</i>	0	0	0	0	0.2	0.2
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0.2	0
<i>Oithona</i> sp. 1	0	0	0	0	0.2	0
<i>Oncaea conifera</i>	0.4	0	0.3	0.3	0	0
<i>Oncaea media</i>	2.9	1.3	1.0	4.0	9.2	3.5
<i>Oncaea mediterranea</i>	0.8	0.4	3.1	0.7	1.8	0.6
<i>Oncaea venusta</i>	8.6	6.0	3.1	2.0	2.7	1.2
<i>Oncaea</i> sp.	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona</i> sp.	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0.2	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0.2	1.0	0.7	0	0
<i>Clytemnestra scutellata</i>	0	0	0	0.3	0	0
<i>Macrosetella gracilis</i>	0	1.5	1.7	0	0.5	0
Benthic harpacticoid females	7.8	5.8	7.6	1.7	24.2	6.1

TABLE 7-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0.4	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	1.1	0	0	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	2.9	0	1.0	5.6	0.2	0.7
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0	0	0	0.2	0
<i>Nannocalanus minor</i>	0	0	0.5	0.8	0	0
<i>Paracalanus aculeatus</i>	0.4	0.2	0.7	1.2	3.8	22.4
<i>Paracalanus crassirostris</i>	0.7	0	0.2	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0
<i>Paracalanus indicus</i>	8.2	13.1	22.2	19.1	0.2	7.8
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	8.2	25.5	17.8	13.5	0.9	2.4
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0

TABLE 7-6 CONT.'D

<i>Oithona plumifera</i>	3.2	1.2	0.7	14.7	6.1	11.4
<i>Oithona setigera</i>	0.4	0	0	0	0	0
<i>Oithona similis</i>	1.4	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0.4	0.5	0	0	0	0
<i>Oncaea conifera</i>	0	0	0	0	0	0
<i>Oncaea media</i>	38.4	39.3	10.3	11.2	9.5	0.9
<i>Oncaea mediterranea</i>	1.1	0.2	0.5	2.4	1.6	0
<i>Oncaea venusta</i>	0.7	0	1.7	1.6	19.4	6.2
<i>Oncaea</i> sp.	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0
<i>Paroithona</i> sp.	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0.2	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0.4	0	0
<i>Sapphirina nigromaculata</i>	0.4	0	0.5	0.4	0	0.1
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.4	0.2	0.5	0.4	0.4	0.1
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.1
<i>Macrosetella gracilis</i>	0.4	0	0	0	0	0
Benthic harpacticoid females	14.7	1.0	8.1	0.4	0.4	0.5

TABLE 7-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0	0	0.8	0.8
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0.7	0	0.4	0	1.1	0.6
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0	0	0	0.2
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0.6
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0.2	0	0	0.8	0.4
<i>Labidocera aestiva</i>	0	0	0	0	0	0.8
<i>Labidocera scotti</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0.3	0
<i>Lucicutia gaussae</i>	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0.4
<i>Mecynocera clausii</i>	0	0	0	0	2.0	0
<i>Nannocalanus minor</i>	0	0	0	0	1.1	2.3
<i>Paracalanus aculeatus</i>	7.4	3.8	11.5	16.2	6.8	5.9
<i>Paracalanus crassirostris</i>	0.2	0	0	0.6	0	0.4
<i>Paracalanus denudatus</i>	0	0	0	0	1.1	0.6
<i>Paracalanus indicus</i>	6.0	2.9	10.2	23.2	6.2	22.0
<i>Paracalanus nudus</i>	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	8.8	3.3	8.6	9.5	5.4	13.2
<i>Paracandacia bispinosa</i>	0	0	0	0	0.3	0.2

TABLE 7-6 CONT.'D

<i>Oithona plumifera</i>	29.2	14.8	7.5	6.7	15.3	7.7
<i>Oithona setigera</i>	0	0.2	0	0	0.6	0.4
<i>Oithona similis</i>	0	0	0	0	0	7.9
<i>Oithona tenuis</i>	0	0	0	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	1.0
<i>Oithona sp. 1</i>	0	0	0	0	0	2.1
<i>Oncaea conifera</i>	0	0.5	0	0	0.3	0
<i>Oncaea media</i>	0.6	2.1	1.8	4.6	15.3	7.5
<i>Oncaea mediterranea</i>	0.1	2.1	0.1	0	5.1	2.9
<i>Oncaea venusta</i>	3.9	18.1	8.1	2.7	2.5	0.4
<i>Oncaea sp.</i>	0	0	0	0	0	0.2
<i>Paroithona pulla</i>	0	0	0	0.3	0	0
<i>Paroithona sp.</i>	0	0.2	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0
<i>Saphirella sp.</i>	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0.2	0	0	0	0	0.2
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0
<i>Siphonostomata sp. 2</i>	0	0	0	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.5	0.2	0	0	0.8	1.0
<i>Clytemnestra scutellata</i>	0	0	0.3	0	0	0
<i>Macrosetella gracilis</i>	0	3.3	2.1	0.9	1.1	0
Benthic harpacticoid females	0	3.8	1.3	3.4	4.0	2.1

TABLE 7-6 CONT.'D

<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0	0	0	0
<i>Ctenocalanus vanus</i>	1.2	0	0	0	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0.5	0.1	0.3	6.6	0.6	0.8	0
<i>Eucalanus sewelli</i>	0	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0.1	0	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0.5	0	0	0	0.4
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.2	0
<i>Ischnocalanus plumulosus</i>	0	0	0	0	0	0.2	0
<i>Labidocera aestiva</i>	0.7	2.2	0	0	0	0	0
<i>Labidocera scotti</i>	0	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0	0	0	0	0
<i>Lucicutia gausgae</i>	0	0	0	0	0	0	0
<i>Lucicutia paraclausi</i>	0.2	0	0	0	0.3	0	3.5
<i>Mecynocera clausii</i>	0.2	0	0	0.2	0	0	0.4
<i>Nannocalanus minor</i>	0	0	0.8	0	0	0.4	0
<i>Paracalanus aculeatus</i>	1.7	1.6	4.7	2.1	3.3	5.0	13.5
<i>Paracalanus crassirostris</i>	0	0.1	0	0.4	0	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0	0.4
<i>Paracalanus indicus</i>	12.3	26.2	53.1	18.3	33.9	39.8	19.3
<i>Paracalanus nudus</i>	0.2	0	0	0	0	0	0
<i>Paracalanus quasimodo</i>	8.7	11.3	8.6	44.8	2.5	12.8	10.4
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0	0

TABLE 7-6 CONT.'D

<i>Oithona plumifera</i>	3.3	7.6	3.1	2.8	4.7	9.3	12.0
<i>Oithona setigera</i>	0	0	0	0	0	0	0.8
<i>Oithona similis</i>	3.8	0.1	0	0	0	0	0
<i>Oithona tenuis</i>	0	0	0	0.2	0	0	0
<i>Oithona vivida</i>	0	0	0	0	0	0	0
<i>Oithona</i> sp. 1	0.9	0.3	0.5	0	0	0	0
<i>Oncaea conifera</i>	0.2	0.3	0	0	0	0	0.4
<i>Oncaea media</i>	24.1	19.2	2.6	1.5	3.0	0	1.2
<i>Oncaea mediterranea</i>	2.6	1.6	0.8	1.5	0.6	0.2	0.4
<i>Oncaea venusta</i>	0.7	2.2	1.6	2.8	7.1	1.4	2.3
<i>Oncaea</i> sp.	0	0	0	0	0	0	0
<i>Paroithona pulla</i>	0	0	0	0	0	0	0
<i>Paroithona</i> sp.	0	0	0	0	0	0	0
<i>Saphirella tropica</i>	0	0	0	0	0	0	0
<i>Saphirella</i> sp.	0	0	0	0	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0	0.2	0	0.2	0
<i>Sapphirina ovatolanceolata</i>	0	0	0	0	0	0	0
<i>Siphonostomata</i> sp. 2	0.2	0	0	0	0	0	0
<u>HARPACTICOIDA</u>							
<i>Clytemnestra rostrata</i>	0.9	0.4	2.6	0	1.6	0	1.5
<i>Clytemnestra scutellata</i>	0.2	0	0	0	0	0	0
<i>Macrosetella gracilis</i>	0.2	0	0	0	0.3	0.8	1.2
Benthic harpacticoid females	25.3	3.3	0.8	1.5	0.6	0.2	2.7

TABLE 7-7 CONT. 'D

<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	0.3	0	0	0	0	0
<i>Clausocalanus arcuicornis</i>	0	0.2	0	0	0	0
<i>Clausocalanus furcatus</i>	4.3	22.0	11.7	4.3	7.7	27.9
<i>Clausocalanus jobei</i>	1.9	0	0.3	33.3	0.5	0
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	0	0	0	0.5	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	0	0
<i>Clausocalanus pergens</i>	0	0	0	0.2	0	0
<i>Ctenocalanus vanus</i>	0	0	0.2	1.3	0	0
<i>Eucalanus hyalinus</i>	0.6	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0	1.8	0.6	0.2	0.5	0
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	1.3	0.5	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0	0	0.7	0	0
<i>Euchirella rostrata</i>	0.2	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0.2	0	0	0	0
<i>Labidocera aestiva</i>	0	0.2	0	0.2	0	0
<i>Lucicutia flavicornis</i>	0.2	0	0	0.4	0.2	0
<i>Lucicutia gaussae</i>	0	0	0	0.2	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	0	0.2	1.0	0.4	0.7	1.2

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0.2	0	0
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.5	0.7	2.2	1.4	0.2	0
<i>Corycaeus americanus</i>	4.4	0.2	0	0	0	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0.5	0	1.3	0.5	2.7	0.2
<i>Corycaeus latus</i>	0.3	0.5	0	0	0.2	0.7
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.2	0.5	0.2	0	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.3	2.0	5.1	0	36.5	12.2
<i>Farranula rostrata</i>	0	0	0	0.2	0	0
<i>Lichomolgus sp.</i>	0.3	0.2	0	1.1	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0.5	0
<i>Monstrilla sp.</i>	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0.2	0.2	0	0
<i>Oithona fallax</i>	0.2	0	0	0.2	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0.2	0	0
<i>Oithona nana</i>	1.1	1.1	0.2	1.4	0	0
<i>Oithona plumifera</i>	2.8	3.6	5.6	0.9	3.0	17.2

TABLE 7-7 CONT.'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	11.2	0.2	1.6	1.1	0	0

TABLE 7-7 CONT.'D

<i>Centropages hamatus</i>	0	0	0	0	0	0.4
<i>Centropages velificatus</i>	0.3	0.2	0	0	0.8	0.1
<i>Clausocalanus arcuicornis</i>	0	0	0.1	0	0	0.1
<i>Clausocalanus furcatus</i>	9.2	25.4	12.9	27.2	6.6	11.0
<i>Clausocalanus jobei</i>	0.2	0.5	0.7	0.2	0.2	0.9
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0.2	0
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0.1
<i>Clausocalanus paululus</i>	0	0	0.1	0	0	0.6
<i>Clausocalanus pergens</i>	0	0	0	0	0	0.1
<i>Ctenocalanus vanus</i>	0	0	0	0	0	1.1
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0.6
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	0.2	0.3	0	0.2	0.3	0.3
<i>Eucalanus sewelli</i>	0	0	0	0	0	0.2
<i>Euchaeta marina</i>	0.5	0	0	0	0	0.1
<i>Euchaeta paraconcinna</i>	0	0	0	0.2	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0.2
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.1
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.2	0.1	1.6	0.2	0.2	0.4
<i>Labidocera aestiva</i>	0	0	0.1	0	0	0
<i>Lucicutia flavicornis</i>	0	0	0.4	0.2	0	4.4
<i>Lucicutia gaussae</i>	0	0	0	0.5	0.2	0.2
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	4.9	0	0	0.5	0.6	1.7

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0.1	0	0	0
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.5	0.2	0	0	0.3	0.2
<i>Corycaeus americanus</i>	0.2	0	0	0	0.5	0.5
<i>Corycaeus clausi</i>	0	0	0.1	0	0.3	0
<i>Corycaeus flaccus</i>	0	0	0	0.2	0	0.2
<i>Corycaeus giesbrechti</i>	0.2	0.4	1.1	0.5	1.3	0.2
<i>Corycaeus latus</i>	0	0.2	0.5	0	0.2	0.2
<i>Corycaeus lautus</i>	0	0	0	0	0.3	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0.6	0.2	0	0	0	0
<i>Corycaeus typicus</i>	0	0	0	0	0	0.1
<i>Farranula gracilis</i>	5.6	16.1	3.7	5.3	1.1	1.2
<i>Farranula rostrata</i>	0	0	0	1.2	0.3	0
<i>Lichomolgus</i> sp.	0	0	0	0	0	0
<i>Lubbockia squillimana</i>	0.2	0	0	0	0	0.4
<i>Monstrilla</i> sp.	0	0	0	0	0.2	0
<i>Oithona decipiens</i>	0	0	0	0	0	0
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0.5	0	0.3	0	1.0	0.8
<i>Oithona plumifera</i>	41.2	8.5	22.7	24.0	46.0	13.3

TABLE 7-7 CONT.'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	0.2	0.2	0.8	0.7	5.0	2.0

TABLE 7-7 CONT.'D

Centropages hamatus	0	0	0	0	0	0
Centropages velificatus	0.3	0	0	0.1	2.2	0.5
Clausocalanus arcuicornis	0	0.4	0	0	0	0
Clausocalanus furcatus	3.0	4.0	4.8	12.5	44.3	20.3
Clausocalanus jobei	0.3	2.1	0.5	3.5	0	13.9
Clausocalanus mastigophorus	0	0.1	0	0	0	0
Clausocalanus parapergens	0	0.8	0.8	0	0	0
Clausocalanus paululus	0	0	0.3	0	0	0
Clausocalanus pergens	0	0.7	0	0	0	0
Ctenocalanus vanus	0	2.7	0.3	0	0	0.2
Eucalanus hyalinus	0	0.7	0	0	0.3	0
Eucalanus monachus	0	0.1	0	0	0	0
Eucalanus pileatus	1.7	1.0	0	0.4	0.5	0.5
Eucalanus sewelli	0	0	0	0	0.2	0
Euchaeta marina	0	0.1	0	0	0	0.2
Euchaeta paraconcinna	0	0	0	0	0	0
Euchirella rostrata	0	0	0	0	0	0
Haloptilus longicornis	0	0	0	0	0	0
Heterorhabdus papilliger	0	0	0	0	0	0
Heterorhabdus spinifer	0	0.1	0	0	0	0
Ischnocalanus plumulosus	0	0.8	0	0	0	0.1
Labidocera aestiva	0	0	0	0	0	0
Lucicutia flavicornis	0	4.9	0.3	0	0	0.4
Lucicutia gaussae	0	0	0	0	0.2	0
Lucicutia paraclausi	0	0	0	0	0	0
Mecynocera clausii	0	0.7	0	0	3.9	0.5

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0	0	0	0	0.1
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.3	1.8	3.5	2.4	0.8	0
<i>Corycaeus americanus</i>	2.7	5.5	6.6	2.6	0.2	0
<i>Corycaeus clausi</i>	0	0.6	0	0	0.2	0.1
<i>Corycaeus flaccus</i>	0	0	0	0	0	0
<i>Corycaeus giesbrechti</i>	0	0.3	0.5	0.5	0.3	1.1
<i>Corycaeus latus</i>	0	0	0	0	0.2	0.1
<i>Corycaeus lautus</i>	0	0	0	0	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	1.3	0	0	0	0	0.1
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.7	0	0	0	6.9	5.6
<i>Farranula rostrata</i>	0	1.1	0	0	0	0.5
<i>Lichomolgus</i> sp.	0	0.3	0.8	1.2	0	0
<i>Lubbockia squillimana</i>	0	0.4	0	0	0	0.1
<i>Monstrilla</i> sp.	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0.3	0	0	0	0.1
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	6.0	0.4	0.5	0.4	0	0
<i>Oithona plumifera</i>	2.0	4.1	0	0.8	4.0	11.0

TABLE 7-7 CONT.'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	24.8	6.6	4.0	3.0	0.3	0.5

TABLE 7-7 CONT. 'D

<i>Centropages hamatus</i>	0	0	0	0	0	0
<i>Centropages velificatus</i>	1.7	0.2	0.1	3.3	0	0
<i>Clausocalanus arcuicornis</i>	0	0	0	0	0.5	0
<i>Clausocalanus furcatus</i>	41.0	29.2	36.2	18.1	20.5	5.1
<i>Clausocalanus jobei</i>	0	0.8	1.6	0	3.9	2.2
<i>Clausocalanus mastigophorus</i>	0	0	0	0.2	0	0.1
<i>Clausocalanus parapergens</i>	0	0	0	0	0	0
<i>Clausocalanus paululus</i>	0	0	0	0	1.2	0
<i>Clausocalanus pergens</i>	0	0	0	0	0.7	0.3
<i>Ctenocalanus vanus</i>	0	0.1	0	0	2.4	0.7
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0
<i>Eucalanus monachus</i>	0	0	0	0	0	0
<i>Eucalanus pileatus</i>	1.2	0	0.6	2.0	1.0	0.2
<i>Eucalanus sewelli</i>	0	0	0	0	0	0
<i>Euchaeta marina</i>	0	0	0.1	0.2	0	1.1
<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0	0	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0	0.3	0.7	0.2	0.2
<i>Labidocera aestiva</i>	0	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0.2	0.3	0	2.9	0.6
<i>Lucicutia gaussae</i>	0	0	0	0	0	0.4
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0
<i>Mecynocera clausii</i>	1.0	0	0	1.8	1.0	4.7

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0.2
<i>Copilia mirabilis</i>	0.1	0	0	0.2	0	0.1
<i>Corissa parva</i>	0	0	0	0	0	0
<i>Corycaeus amazonicus</i>	0.2	0.7	0	0.5	0.5	0.1
<i>Corycaeus americanus</i>	0	0.3	0	0	1.0	0
<i>Corycaeus clausi</i>	0	0	0	0	0	0.3
<i>Corycaeus flaccus</i>	0	0	0	0	0	0.3
<i>Corycaeus giesbrechti</i>	0.9	1.8	0.6	1.8	0.5	0.4
<i>Corycaeus latus</i>	0.2	0	0	0.2	0.5	0.2
<i>Corycaeus lautus</i>	0	0	0.4	0.2	0	0.3
<i>Corycaeus limbatus</i>	0	0	0	0	0	0.1
<i>Corycaeus minimus</i>	0	0	0	0	0.2	0
<i>Corycaeus speciosus</i>	0	0	0.7	0	0	0.2
<i>Corycaeus typicus</i>	0	0	0	0	0.5	0
<i>Farranula gracilis</i>	11.5	15.9	7.0	4.4	0.7	13.2
<i>Farranula rostrata</i>	0	0	0	0	0	2.8
<i>Lichomolgus</i> sp.	0	0	0	0	0	0
<i>Lubbockia squillimana</i>	0	0	0	0	0	0.1
<i>Monstrilla</i> sp.	0	0	0	0	0	0
<i>Oithona decipiens</i>	0	0	0	0	0	0.1
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0	0	0	0	0	0
<i>Oithona hebes</i>	0	0	0	0	0	0
<i>Oithona nana</i>	0.2	0.1	0	0.5	0.2	0
<i>Oithona plumifera</i>	6.6	10.9	6.7	21.2	11.8	11.1

TABLE 7-7 CONT.'D

Miracia efferata	0	0	0	0.2	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	0.8	0.2	0	0	0.5	0.1

TABLE 7-7 CONT.'D

<i>Centropages hamatus</i>	0	0.2	0	0	0	0
<i>Centropages velificatus</i>	0	0	0	0	0.8	0.5
<i>Clausocalanus arcuicornis</i>	0.6	0	0	0	0	0
<i>Clausocalanus furcatus</i>	4.7	8.3	2.0	0.5	2.9	12.0
<i>Clausocalanus jobei</i>	5.1	4.0	4.7	0.5	0.4	9.7
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0
<i>Clausocalanus parapergens</i>	1.0	0	0.4	0	0	0
<i>Clausocalanus paululus</i>	1.0	0.2	0.2	0	0	0
<i>Clausocalanus pergens</i>	3.8	0	0.4	0	0	0
<i>Ctenocalanus vanus</i>	3.3	2.4	1.5	7.9	0	0
<i>Eucalanus hyalinus</i>	0	1.2	0	0	0	0.2
<i>Eucalanus monachus</i>	0.1	0.2	0.4	0	0	0
<i>Eucalanus pileatus</i>	0.7	0.2	0.7	0.8	8.8	1.4
<i>Eucalanus sewelli</i>	0	0.4	0	0	0	0.2
<i>Euchaeta marina</i>	0.5	1.2	0.2	0	0	0
<i>Euchaeta paraconcinna</i>	0.7	0	0	0	0	0
<i>Euchirella rostrata</i>	0	0	0	0	0	0
<i>Haloptilus longicornis</i>	0.1	0.2	0	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0
<i>Ischnocalanus plumulosus</i>	0.2	0.6	0	0	0	1.6
<i>Labidocera aestiva</i>	0.5	0	0	0.3	0	0.2
<i>Lucicutia flavicornis</i>	3.1	0.6	2.2	0	0	0.4
<i>Lucicutia gaussae</i>	0	0.2	0	0.3	0	0
<i>Lucicutia paraclausi</i>	1.6	0	0.2	0	0	0.2
<i>Mecynocera clausii</i>	0.6	0	0	1.0	0	1.9

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0
<i>Copilia mirabilis</i>	0	0.2	0	0	0	0.2
<i>Corissa parva</i>	0.1	0	0.2	0	0	0
<i>Corycaeus amazonicus</i>	1.5	0.2	1.6	6.3	1.0	0
<i>Corycaeus americanus</i>	0.6	0	0.7	6.3	0.2	0
<i>Corycaeus clausi</i>	0.2	0.2	0	0	0.2	0
<i>Corycaeus flaccus</i>	0.1	0	0	0	0	0.2
<i>Corycaeus giesbrechti</i>	0.3	0.4	0.4	1.0	0.2	0.2
<i>Corycaeus latus</i>	0	0	0	0.3	0	0
<i>Corycaeus lautus</i>	0.1	0	0.2	0	0	0
<i>Corycaeus limbatus</i>	0.1	0	0	0	0	0
<i>Corycaeus minimus</i>	0	0	0	0	0	0
<i>Corycaeus speciosus</i>	0	0.4	0	0	0	0.5
<i>Corycaeus typicus</i>	0	0	0	0	0	0
<i>Farranula gracilis</i>	0.3	1.0	0	0.3	0.8	1.9
<i>Farranula rostrata</i>	0.8	1.4	0.2	2.1	0	0.2
<i>Lichomolgus</i> sp.	0.5	0	0.2	0	0	0
<i>Lubbockia squillimana</i>	0.2	0	0.2	0	0	0
<i>Monstrilla</i> sp.	0	0	0	0	0	0
<i>Oithona decipiens</i>	1.0	0	0	0	0	0.2
<i>Oithona fallax</i>	0	0	0	0	0	0
<i>Oithona hamata</i>	0.1	0	0	0	0	0
<i>Oithona hebes</i>	0.8	0	0	0	0	0
<i>Oithona nana</i>	0.3	0	0	1.6	0.2	0.2
<i>Oithona plumifera</i>	3.4	9.1	2.0	4.7	7.4	9.5

TABLE 7-7 CONT.'D

Miracia efferata	0	0	0	0	0	0
Oculosetella gracilis	0	0	0	0	0	0
Benthic harpacticoid females	4.4	1.2	0.5	2.1	5.9	0.2

TABLE 7-7 CONT.'D

Centropages hamatus	0	0
Centropages velificatus	0.2	0.1
Clausocalanus arcuicornis	0	0
Clausocalanus furcatus	2.9	30.6
Clausocalanus jobei	5.3	0
Clausocalanus mastigophorus	0	0
Clausocalanus parapergens	0.4	0
Clausocalanus paululus	0	0
Clausocalanus pergens	1.1	0
Ctenocalanus vanus	0.9	0
Eucalanus hyalinus	0	0
Eucalanus monachus	0	0
Eucalanus pileatus	0.2	0.3
Eucalanus sewelli	0	0.1
Euchaeta marina	0	0.1
Euchaeta paraconcinna	0.5	0.1
Euchirella rostrata	0	0
Haloptilus longicornis	0	0
Heterorhabdus papilliger	0	0
Heterorhabdus spinifer	0	0
Ischnocalanus plumulosus	0.4	0.1
Labidocera aestiva	0	0
Lucicutia flavicornis	0.2	0.7
Lucicutia gausgae	0.2	0.3
Lucicutia paraclausi	1.3	1.1
Mecynocera clausii	3.6	0.6

TABLE 7-7 CONT.'D

<u>CYCLOPOIDA</u>		
<i>Copilia lata</i>	0	0
<i>Copilia mirabilis</i>	0.2	0.3
<i>Corissa parva</i>	0	0
<i>Corycaeus amazonicus</i>	0.4	0
<i>Corycaeus americanus</i>	0	0
<i>Corycaeus clausi</i>	0.2	0.1
<i>Corycaeus flaccus</i>	0	0
<i>Corycaeus giesbrechti</i>	0	0
<i>Corycaeus latus</i>	0.2	0.3
<i>Corycaeus lautus</i>	0	0.3
<i>Corycaeus limbatus</i>	0	0
<i>Corycaeus minimus</i>	0	0
<i>Corycaeus speciosus</i>	0.4	0
<i>Corycaeus typicus</i>	0	0.1
<i>Farranula gracilis</i>	1.1	1.0
<i>Farranula rostrata</i>	0	0.1
<i>Lichomolgus</i> sp.	0.2	0
<i>Lubbockia squillimana</i>	0.4	0.1
<i>Monstrilla</i> sp.	0	0
<i>Oithona decipiens</i>	0	0
<i>Oithona fallax</i>	0	0
<i>Oithona hamata</i>	0	0
<i>Oithona hebes</i>	0	0
<i>Oithona nana</i>	0.7	0
<i>Oithona plumifera</i>	27.7	19.2

TABLE 7-7 CONT.'D

Miracia efferata	0	0
Oculosetella gracilis	0.2	0
Benthic harpacticoid females	0	0

TABLE 8-1 CONT.'D

10-30-64	379	7	2.1381	0.7616
11-24-64	374	15	2.2667	0.5802
12-17-64	598	15	2.2643	0.5796
1-09-65	577	18	2.8573	0.6852
2-28-65	673	16	2.1077	0.5269
3-23-65	285	14	2.8361	0.7449
4-25-65	553	21	2.5623	0.5834
5-31-65	320	24	2.9896	0.6521
6-13-65	595	18	1.8618	0.4465
8-13-65	327	21	2.6244	0.5975
12-11-65	483	16	2.8334	0.7083

TABLE 8-2 CONT.'D

12-17-64	864	19	1.9921	0.4690
1-09-65	457	16	2.4557	0.6139
2-28-65	482	23	3.0334	0.6706
3-22-65	369	21	2.8486	0.6485
4-25-65	601	20	2.7291	0.6315
5-30-65	526	15	0.8474	0.2169
6-13-65	289	24	3.3433	0.7292
8-13-65	581	32	3.6482	0.7296
12-11-65	529	16	2.7157	0.6789

TABLE 8-3 CONT. 'D

11-24-64	666	35	3.8735	0.7552
12-17-64	1159	48	3.7367	0.6691
1-08-65	853	47	3.8580	0.6946
2-28-65	395	29	2.9961	0.6167
3-22-65	482	48	4.6185	0.8270
4-24-65	493	25	2.9074	0.6261
5-30-65	418	27	3.1386	0.6601
6-13-65	423	33	3.6338	0.7204
8-13-65	963	34	3.8321	0.7532

TABLE 8-4 CONT.'D

3-1-65	499	10	1.3548	0.4078
4-25-65	279	18	2.9327	0.7033
5-29-65	164	11	1.8488	0.5344
6-14-65	406	14	2.7296	0.7169
8-14-65	219	17	2.6855	0.6570
9-12-65	717	21	3.1557	0.7184
12-12-65	401	15	3.1336	0.8021

TABLE 8-5 CONT.'D

11-26-64	300	20	3.6197	0.8375
12-16-64	1025	30	2.9986	0.6111
1-7-65	300	20	3.3029	0.7642
2-27-65	471	26	3.0648	0.6520
3-22-65	762	25	3.0421	0.6551
4-23-65	397	22	2.6758	0.6000
5-29-65	340	23	3.4637	0.7657
6-12-65	213	21	3.4120	0.7768
9-10-65	476	23	3.0417	0.6724

TABLE 8-6 CONT.'D

10-29-64	417	31	3.5535	0.7173
11-26-64	776	27	3.2007	0.6731
12-16-64	328	21	3.3320	0.7586
1-7-65	353	41	4.3831	0.8181
2-27-65	478	49	4.2533	0.7575
3-21-65	423	39	3.5148	0.6650
4-23-65	673	31	3.4922	0.7049
5-31-65	382	30	2.9448	0.6001
6-12-65	469	27	2.9124	0.6125
8-12-65	632	29	3.4890	0.7182
9-11-65	483	27	3.0488	0.6412
12-10-65	259	26	3.7149	0.7903

TABLE 8-7 CONT. 'D

9-28-64	1011	35	3.5078	0.6839
10-29-64	671	30	3.3991	0.6927
11-26-64	608	41	4.0587	0.7576
12-16-64	414	46	4.3943	0.7956
1-7-65	897	63	4.5950	0.7687
2-27-65	996	78	4.9063	0.7806
3-21-65	495	57	4.8169	0.8258
4-23-65	551	43	3.5457	0.6334
5-31-65	382	35	3.9965	0.7792
6-12-65	524	30	3.3479	0.6823
8-12-65	568	49	4.4090	0.7853
9-11-65	548	54	4.1541	0.7218
12-10-65	702	48	3.5943	0.6436



The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.