III. RESULTS AND DISCUSSION

A. THE PHYSICAL/CHEMICAL ENVIRONMENT

Natural variation in the physical and chemical environment of the Chesapeake Bay strongly affects distributional patterns of benthic organisms (Boesch et al. 1976; Boesch 1977; Holland et al. 1985a, 1985b; Schaffner 1987; Dauer et al. 1987; and Holland et al. 1988). Historic water column data were summarized and discussed by Holland et al. (1986 and 1988). The objectives of this chapter are to present recent water quality data and identify any substantial changes in water quality patterns that may have occurred.

Salinity

Bottom water salinities measured at all benthic monitoring stations from July 1984 to April 1988 are presented in Table III-1. Stations were grouped into seven salinity strata based on a modification of the Venice system. Classification was based on the percentage of measurements in each salinity category at each station (see Holland et al. 1988 for details). Results of the classification are presented in Table III-2.

Figures III-1 through III-6 summarize salinity data for stations representative of the regions and salinity zones sampled. Seasonal variation in salinity was minimal at the tidal freshwater stations (Fig. III-1). Salinity varied seasonally in a predictable manner in all other strata (Figs. III-2 through III-6), with highest salinity consistently occurring during late summer and early fall, and lowest salinity occurring during late winter and early spring. Salinity differences between stations on the western and eastern shores of the main Bay (~ 0.9 ppt) were not sufficient to affect benthos distributions and occurred mainly in the spring when eastern shore salinities were slightly higher (~ 1.2 ppt) than those on the western shore (Fig. III-4).

Water Temperature

Bottom water temperature values varied seasonally and were typical for the Chesapeake Bay (Table III-3). The highest bottom water temperatures (21 to 31°C) occurred in mid-summer and the lowest (-0.6 to 4.0°C) occurred in January (Fig. III-7).

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Periods of rapid temperature change occurred in the spring (March to May) and in the late fall and early winter (November to January). During warmer months, bottom-water temperatures at shallow stations were slightly higher than at deeper stations due to solar heating of shallow habitats. During winter, coldest water temperatures were also observed at shallow stations due to the effect of atmospheric cooling (Fig. III-7). Station differences in bottom water temperature on any sampling date ranged from 2-5°C (Table III-3).

Dissolved Oxygen

From July 1984 through August 1988, bottom dissolved oxygen concentrations (DO) ranged from 0 to 17.9 mg/l (Table III-4). Annual lows occurred between June and September, and highs occurred in December and January. Dissolved oxygen values changed rapidly in late spring and early summer, and again in the fall (Figs. III-8 and III-9).

The summer of 1988 was similar in the spatial coverage of anoxic/hypoxic bottom waters to the summers of 1985, 1986 and 1987. Hypoxic conditions occurred at 19 stations in June and August 1988 as in 1985 - 1987, and extended up the deeper waters of the Maryland Bay into Baltimore Harbor, and up the deeper Potomac River to just below the Morgantown power plant (Fig. III-10). The deep regions of the lower Patuxent, Patapsco and Choptank Rivers were not observed to have hypoxic conditions during 1988 (Table III-4). Anoxic/hypoxic conditions were most severe in the summer of 1984, the only year in which hypoxia extended into the lower reaches of the Patapsco, Patuxent and Choptank Rivers. Maps of the extent and intensity of anoxia/hypoxia for previous years were provided by Holland et al. (1988). In 1988, as in most previous years, the month of greatest intensity and spatial coverage of anoxic/hypoxic waters was August (Fig. III-10).

pH

Bottom pH values ranged from 6.11 to 9.51 during the study (Table III-5). At mesohaline stations, maximum pH values occurred in winter and early spring while minimum values occurred between June and September (Fig. III-11). No seasonal pattern in pH was discernible at tidal freshwater and transitional stations (Fig. III-11).

Bottom pH values below 7.0 (acidic) were observed at 21 stations, and only once over the four years at ten of these 21 stations. Low pH values were most frequently observed in the Patuxent River from Chalk Point (low mesohaline salinity zone) to Jug Bay (tidal freshwater salinity zone) during late spring and summer (Table III-5 and Fig. III-11).

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Bottom pH values over 9.0 (basic) were observed once at 22 stations, and twice at another four stations over the study period. High pH events were generally patchy in nature. Only one pH value above 9.0 was observed during 1988. The observation was at Station 53 in the Potomac River (Table III-5).

Sediment Characteristics

At the commencement of this study, sampling stations were established in locations representative of predominant sediment types within geographic regions and salinity zones (Holland et al. 1988). Sand habitats were defined as those with sediments composed of more than 90% sand sized particles (> 63 µm) (Table III-6). Mud habitats were those with sediments having a mean silt-clay content (particles < 63 µm) of more than 85% (Table III-6). Intermediate habitats were classified as muddy-sand (< 50% silt-clay) or sandy-mud (> 50% silt-clay) (Table III-6) (Holland et al. 1988).

Variation in silt-clay content of sand and mud habitat sediments was small among sampling dates (Fig. III-12). Intermediate stations in the main Bay, and nearshore stations in the Potomac River had higher silt-clay content than nearshore stations in the main Bay (Fig. III-12). In muddy-sand and sandy-mud habitats, however, silt-clay content varied substantially from sampling date to sampling date due to the patchiness of sediment distributions, and the low probability of sampling the same sediment patch on repeated visits. (Figs. III-12 and III-13). No seasonal pattern in silt/clay content was observed. (Figs. III-12 and III-13).

Water Quality Profiles

Measurements of water quality parameter profiles during benthic sampling cruises from December 1987 to August 1988 are presented in Appendices A-G.

B. BENTHIC ABUNDANCES

Trends in benthic abundances for the upper Bay, Baltimore Harbor, the central Bay mainstem, and the upper and mid-Patuxent and mid-Potomac Rivers from the early 1970's to the present were discussed by Holland et al. (1988). Data collected during the period under review were in agreement with these trends and are presented in Appendices H through S. A brief summary for each region follows.

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Macrobenthic densities and biomass in the upper Bay increased over the period, mainly due to increases in estuarine species such as the amphipod Leptocheirus plumulosus, the polychaete Marenzelleria viridis, and the clam Rangia cuneata. The changes were relatively small and appeared to be associated with long-term salt intrusion. Previous data for the upper Bay are extended to April 1988 in Figs. III-14 through III-17.

Macrobenthic abundances in Baltimore Harbor showed a three-fold increase over two decades, largely due to increases in two estuarine species, the amphipod Leptocheirus plumulosus and juveniles of the clam Macoma balthica. These increases could not be attributed to natural environmental change; instead they were attributed to improvements in water and surface sediment quality resulting from pollution abatement. However, benthic abundances in Baltimore Harbor are still an order of magnitude lower than abundances in environmentally similar habitats (e.g., Chester River). Previous data for the Harbor are extended to the end of the period covered by this report in Figs. III-18 through III-20.

In the central Bay mainstem, abundances of short-lived rapidly reproducing estuarine opportunists such as Streblospio benedicti and Monoculodes sp. and abundances of relatively long-lived estuarine forms such as Heteromastus filiformis, Macoma balthica and Marenzelleria viridis occurred in long-term cycles that were out of phase with each other. The causes of these cyclic patterns were not clear. Biological diversity of this region, and the abundance and frequency of occurrence of euryhaline marine species, increased following a shift in salinity that commenced with the drought of 1981. For this region, extensions of data to the end of the period covered by this report are provided in Figs. III-21 through III-24. Data extensions for the lower Patuxent River, which was similar to the central Bay mainstem, are provided in Figs. III-25 and III-26.

Macrobenthic densities and biomass increased in the upper Patuxent River due to increases in freshwater species (oligochaetes and chironomids) as well as estuarine forms (Leptocheirus plumulosus and Marenzelleria viridis). The trends were similar to those observed for the upper Bay and were attributed to long-term salt intrusion following prolonged dry conditions in the Patuxent River watershed starting in 1981. Extensions of previous data to the end of the period covered by this report are provided in Figs. III-27 through III-29.

In the middle Patuxent River macrobenthic abundance and biomass decreased in recent years due to declines in estuarine dominants (e.g., Leptocheirus plumulosus, Macoma balthica, and the oligochaetes Tubificoides spp.). These decreases were accompanied by increases in the abundance and frequency of occurrence of eurytolerant marine species. Macoma abundances,

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which peaked in the mid-1970s, were approximately twice as high in the early 1980s as in the 1960s. Trends in the middle Patuxent River were attributed to long-term increases in salinity as well as pollution abatement actions. Extensions of previous data to the end of the period covered by this report are provided in Figs. III-30 through III-33.

Macrobenthic abundances and biomass showed substantial annual fluctuation in the near-shore and deep-water habitats of the mid-Potomac River. The fluctuations were due to differences in the amplitude of recruitment pulses of numeric dominants (Leptocheirus plumulosus, Macoma balthica, Marenzelleria viridis, Mulinia lateralis, and Tubificoides spp.) associated with variation in spring salinities. The range of salinity variation observed in the Mid-Potomac was greater than that of most other geographic regions sampled, and was over a range (2-10 ppt) to which many estuarine macrobenthos are particularly sensitive. No directional trend was identified. Extensions of previous data to the end of the period covered by this report are provided in Figs. III-34 through III-40.

C. BENTHIC STANDING STOCKS AND PRODUCTION

Biomass

Ash-free dry weight biomass values from July 1986 through June 1987 for each selected species are presented in Appendix T. Spatial patterns in benthic biomass standing stocks from 1984-1987 are summarized in Fig. III-41.

The greatest biomass standing stock occurred in the tidal freshwater region of the Potomac River, and in transitional and low mesohaline habitats. The majority (> 90%) of the biomass in these regions was made up of the relatively long-lived suspension feeding clams Corbicula sp., Macoma balthica and Rangia cuneata. For example, in the tidal freshwater region of the Potomac River, Corbicula sp. accounted for 99% of the total biomass. Lowest biomass standing stock was observed in the deep (> 7 m) mud habitats in low mesohaline to polyhaline strata of the Maryland Bay and its tributaries. This region consistently experienced oxygen deficient waters during summer (Fig. III-10, Holland et al. 1988). Shallow sand regions of the main Bay typically supported lower standing stocks than the sandy and muddy regions of major tributaries (e.g., Calvert Cliffs (east and west) shallow stations supported lower biomass than shallow stations in the Potomac River at Morgantown, Fig. III-41).

A substantial decline in standing stock biomass of the tidal fresh and transitional habitats of the Potomac River

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(Station 36) and upper Bay (Station 29) occurred in 1986/1987 (Fig. III-41) due to decreased abundances of larger long-lived clams. Other regions had similar or slightly higher standing stock biomass in 1986/1987 than in previous years (Fig. III-41).

At any one station, benthic biomass fluctuated as much or more over an annual cycle as it did from station to station on any one sampling date. In sand and deep mud habitats in the polyhaline and high mesohaline salinity zones of the main Bay and Patuxent River, benthic biomass peaked in late spring (Figs. III-42 and III-43), declined during late summer, remained low during fall and winter and increased in early spring. This seasonal pattern was also observed in the deep habitats of the Potomac River (Fig. III-44), the Choptank River (Fig. III-45), and Baltimore Harbor (Fig. III-46).

At most stations, larger, long-lived clams comprised most of the benthic biomass. This was, however, not the case in Baltimore Harbor (Fig. III-46). Biomass and production of molluscs were particularly low in the Baltimore Harbor, although mollusc recruitment pulses in the Harbor were not substantially different from those in similar habitats. The major disparity observed in the Harbor was a near total absence of larger clams. Absolute and relative crustacean biomass were higher in Baltimore Harbor and the Chester River than in other regions (Figs. III-46 and III-47). However, the Chester River, which had a similar environment to Baltimore Harbor, had much higher mollusc biomass (primarily *M. balthica*) than did Baltimore Harbor.

Peak biomass in the shallow sand habitats of the Potomac River and the shallow mud habitats of the Patuxent River occurred during late spring and early summer, as in other regions. However, sharp declines in biomass observed in the fall and winter months in other regions (Figs. III-42 to III-46) were not evident (Figs. III-48 and III-49). Mollusc biomass was lower at Station 77 in 1984 than from 1985 to 1987 (Fig. III-49), probably because the low spring salinities in 1984 were lower than the tolerance limit of *Macoma balthica*, the dominant clam. Since 1984, salinities in the vicinity of Station 77 have been relatively high, and *M. balthica* has extended its range upstream.

Figures III-50 and III-51 present monthly biomass for Station 26 in the upper Bay and Station 36 in the tidal freshwater region of the Potomac River. Both regions have exceptionally high mollusc biomass relative to other regions due to dominance of the benthos by relatively large, long-lived clams (*Rangia cuneata* in the upper Bay and *Corbicula* sp. in the upper Potomac River). Biomass at both stations varied little from season to season. Most of the observed temporal variability was probably due to patchiness in the spatial distribution of these clams.

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Production

Macrobenthic production estimates for the Maryland Bay for 1985/1987, and 1986/1987 are summarized in Table III-7 and Fig. III-52. In general, the spatial pattern of production was similar to that of biomass, and was similar over the two years. Highest production was observed near the zone of maximum turbidity (tidal freshwater/transitional to low mesohaline salinity zones) (Fig. III-52). Lowest production was observed in the same location as the lowest biomass: in the deep, high mesohaline to polyhaline mud habitats that experienced oxygen deficient waters during summer, and the adjacent shallow habitats (Table III-7, Fig. III-52).

The stations with highest production were inhabited by large, long-lived (3-4 years), fast growing mollusc populations including Corbicula sp. (upper Potomac River), Rangia cuneata (transitional brackish water habitats), Macoma balthica (low mesohaline habitats), Mya arenaria and Tagelus plebeius (high mesohaline habitats). They accounted for most of the macrobenthic production. However, large molluscs did not proportionally dominate production estimates as much as they dominated biomass estimates.

Mollusc productivity was low in high mesohaline deep water mud habitats that experience oxygen deficient waters during summer, in select high mesohaline nearshore sand habitats along the main Bay, in Baltimore Harbor, and in the Chester and Choptank Rivers. The low mollusc productivity in these regions was due to low observed abundances of older, larger age classes rather than poor recruitment. Mollusc recruitment in these regions was similar to that in other regions with similar environments (Holland et al. 1988).

Crustaceans were important contributors to overall production in low mesohaline mud habitats where Leptocheirus plumulosus was abundant, particularly in Baltimore Harbor and the Chester River. Leptocheirus plumulosus accounted for over 98% of the overall crustacean production in these low mesohaline mud habitats. The isopod Cyathura polita accounted for approximately 20% of the crustacean production in 1985/1986 and 1986/1987 in transitional/low mesohaline habitats. Total Cyathura production in 1986/1987 was lower than in 1985/1986 (Table III-7).

Highest polychaete production occurred in mesohaline habitats at the mouth of the South River, in Baltimore Harbor, in the Chester River, and in sand habitats of the mid-Potomac River (Fig. III-52). Three species, Heteromastus filiformis, Marenzelleria viridis, and Nereis succinea, accounted for most of the polychaete production in these areas. Although another polychaete, Streblospio benedicti, was relatively abundant in some regions (e.g., the Calvert Cliffs sand and mud habitats),

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it accounted for less than 10% of overall polychaete production (Table III-8).

Annual Production:Biomass (P:B) ratios, which provide an estimate of the annual turnover rate for the macrobenthos, are also presented in Fig. III-52. Highest (> 5) P:B ratios (most rapid turnover) were observed for assemblages characterized by short-lived, fast-growing species. Examples are assemblages in the deep central regions of the Bay that regularly experience summer anoxia/hypoxia, in Baltimore Harbor, and in the Potomac River downstream of the Blue Plains wastewater treatment facility. Low (<2) P:B ratios occurred in transitional/low mesohaline environments in several tributaries and the upper Bay which supported macrobenthic assemblages characterized by large, long-lived species.

D. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES

Results of QA/QC procedures conducted since the last data report (Holland et al. 1988) are summarized below.

Biological Samples

At Versar, ESM Operations, 7 of 111 sorted samples (6.3%) were resorted due to QC's failed between May 1987 and April 1988 (Table III-8). At Cove Corporation, 12 of 831 samples were resorted between October 1987 and April 1988 due to QC failure (Table III-9). The overall sorting efficiency for both institutions was greater than 98%, which is significantly better than the 95% reference rate. Most failed samples were attributable to the introduction of new personnel. Retraining was used to ensure future quality. The results indicate that the current QA/QC procedure was effective in detecting substandard samples, and allowed problems to be identified and corrected quickly and cost effectively.

Table III-10 presents the results of QA/QC procedures for identification and enumeration on samples processed at Cove Corporation. No taxonomic QA/QC data was maintained for Versar, ESM Operations (since the last data report) because several new taxonomists were being trained and every sample was reprocessed. Only 3.0% of the 1434 samples processed at Cove between June 1987 and April 1988 initially failed taxonomic QA/QC (Table III-10). The overall error rate of sample batches that passed was 4.2%. The majority of the failed samples from Cove Corporation were associated with the assignment of new taxonomists to the project. In summary, the biological QA/QC procedures effectively ensured consistent and quality data during the long-term study.

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Sediment Analysis

On the average, less than five of the second analyses required due to comparison with the historic record were incorporated into the sediment data record in each month (Table III-11). Table III-12 presents the repeat silt/clay analyses performed on sediment samples selected at random between October 1987 and May 1988. The disagreement between original and check samples was less than seven percent and, in all cases, both the original and reprocessed values were within historical ranges reported for the station (Table III-12). QA/QC procedures on the silt/clay analyses ensured consistency and reliability of the sediment data base.

Data Analysis

The error rate for keypunching since December 1987 never exceeded 1.5% (of the punched records)(Table III-14). The integrity of the data base is critical to the results of analyses, and the reliance placed upon results. We therefore recommend that QA/QC procedures on data integrity be continued, and that they be continuously reviewed and improved.

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Table III-1. Bottom water salinity (ppt) measured at long-term benthic monitoring stations in Chesapeake Bay, July 1984 to August 1988. Dashes indicate missing data.

Station	Average Station Depth	1984 Jul	1984 Aug	1984 Sep	1984 Oct/Nov	1984 Dec	1985 Jan/Feb	1985 Mar	1985 Apr	1985 May	1985 Jun	1985 Jul	1985 Aug	1985 Sep	1985 Nov	1985 Dec
01	2.3	8.57	10.81	14.81	16.87	15.1	16.4	14.7	13.1	13.5	13.8	15.3	18.3	18.7	17.7	16.0
02	6.1	8.96	11.83	15.10	16.58	15.1	16.1	14.6	12.7	13.9	14.0	15.5	19.0	18.8	17.7	17.0
03	13.6	10.84	23.17	15.55	21.61	17.6	16.4	17.8	15.0	14.3	20.1	17.8	20.3	21.9	20.8	18.3
04	28.3	17.79	23.76	21.20	24.65	22.9	17.9	21.0	20.4	20.4	14.2	18.4	23.9	25.2	23.2	19.9
05	3.0	8.58	10.35	15.65	16.83	16.5	16.2	14.9	12.3	14.1	13.0	15.5	17.1	19.3	18.5	14.4
06	2.9	8.40	11.15	14.90	16.30	14.9	16.1	14.7	12.7	13.5	13.8	16.2	18.7	18.0	17.6	17.0
07	5.7	8.82	12.75	14.62	16.39	15.3	16.0	14.8	12.1	13.7	14.5	15.3	19.0	18.7	17.5	16.6
08	12.4	8.85	23.28	16.73	19.31	15.6	15.9	17.2	16.8	14.1	19.8	17.6	19.4	18.9	17.6	17.6
09	2.8	8.37	10.59	14.52	16.52	15.0	15.9	14.0	12.8	13.4	13.8	15.7	18.6	17.9	17.6	15.6
10	6.5	8.41	14.55	14.52	16.54	14.9	15.9	14.1	12.0	13.9	13.8	14.9	19.0	19.0	17.6	15.3
11	12.2	8.72	23.10	16.65	20.87	15.9	16.2	16.9	17.2	14.3	19.9	17.8	20.6	19.7	17.8	17.9
12	2.1	7.58	8.93	14.05	15.82	14.3	15.6	13.3	12.2	13.1	13.6	14.8	17.6	17.2	17.2	16.5
13	5.8	7.62	11.98	14.12	16.01	14.3	15.4	14.0	12.9	13.3	13.9	14.9	17.7	18.4	17.2	16.8
14	11.7	9.15	23.32	15.35	17.62	15.6	16.0	16.9	17.5	13.8	21.0	17.4	19.3	20.0	18.0	17.6
15	2.2	7.55	8.52	13.40	15.36	13.7	14.6	13.4	8.2	13.0	12.8	14.0	16.5	18.0	16.6	12.6
16	13.7	12.92	18.62	15.45	19.72	17.4	15.1	17.0	17.5	13.2	19.3	19.8	17.5	18.3	17.9	18.3
17	26.7	15.82	21.67	19.45	23.70	21.6	17.5	21.9	20.7	18.6	19.5	23.8	22.8	24.5	22.1	19.4
18	2.7	7.00	14.19	14.32	16.13	14.3	14.9	12.9	11.2	13.0	12.3	14.8	16.2	18.8	17.3	14.3
19	3.1	5.89	9.56	12.72	14.68	12.2	13.9	11.2	7.6	12.2	11.8	13.7	15.4	17.5	16.0	11.5
20	10.6	10.25	21.33	15.50	18.26	16.1	14.3	13.4	14.7	13.2	14.4	17.7	15.9	18.0	16.0	16.7
21	28.8	15.45	22.33	19.40	23.13	20.8	16.7	20.2	20.3	18.0	19.8	22.7	23.8	23.9	21.6	18.9
22	3.9	3.05	10.53	10.50	11.18	10.5	-	9.7	7.3	8.0	7.8	9.2	11.9	13.9	12.6	7.2
23	5.5	3.50	13.02	11.19	11.81	10.1	-	9.3	6.8	8.0	8.7	10.0	12.9	13.9	12.6	8.4
24	6.5	4.45	18.32	14.31	12.67	14.6	-	10.0	14.4	8.2	12.3	10.0	13.3	13.8	14.7	11.2
25	7.0	4.68	20.00	12.18	16.53	12.0	-	11.8	9.0	11.9	10.1	11.6	14.0	18.3	15.0	14.6
26	4.0	0.36	3.43	7.26	8.75	4.1	-	3.4	3.0	3.5	5.3	5.8	10.1	10.5	9.1	3.6
27	5.8	0.09	1.63	3.01	4.76	0	-	0	0.1	0.6	0	0.4	5.0	7.5	0	0
28	3.6	0.11	0.13	0.16	1.65	0	-	0	0	0	0	0	1.4	4.5	0	0
29	5.7	0.10	2.27	2.30	5.69	0.8	-	0	0	1.6	0.1	0.5	3.6	6.9	2.5	0.2
36	2.5	0.18	0.19	0.19	0.27	0	-	0	0	0	0	0	0	0	0	0
38	5.7	0.17	0.14	0.53	1.83	0	-	0	0	0	0	1.8	1.1	3.9	0	0
39	2.2	1.80	0.49	4.13	4.53	3.2	-	0.9	1.6	1.7	0.8	4.9	4.4	7.6	1.3	0.4
40	8.0	2.35	0.15	4.26	5.73	3.6	-	0.4	1.6	1.9	0.1	5.2	3.8	8.2	1.6	1.8
43	2.5	4.53	5.17	9.18	8.65	9.6	11.0	5.6	6.3	5.4	4.3	10.0	8.8	13.2	8.5	5.3
44	12.8	4.60	9.39	9.50	10.94	13.6	14.0	8.6	11.6	9.7	9.4	12.5	12.1	14.2	15.6	11.0

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Table III-1. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/Nov	Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
45	2.5	5.00	5.76	9.15	8.66	9.4	10.2	6.6	6.4	5.1	5.7	10.2	9.3	13.5	8.7	5.5
46	13.5	5.20	9.88	9.62	10.58	12.7	12.8	8.9	10.2	9.7	10.5	12.7	11.6	14.6	15.7	11.3
47*	2.3	4.78	6.57	9.32	8.95	9.7	11.2	6.7	6.0	5.3	6.8	10.02	9.4	13.6	8.6	5.4
48	18.3	5.45	9.74	9.67	11.10	12.8	14.0	8.9	11.1	11.2	10.6	12.9	12.5	14.1	16.2	11.6
49	2.2	4.97	5.76	9.78	10.27	10.5	11.9	8.6	6.7	6.1	7.5	11.1	11.1	14.4	8.6	8.6
50	13.8	6.60	9.42	9.65	11.62	13.4	13.6	9.6	10.9	11.6	10.3	13.2	13.2	15.0	16.9	11.1
51	2.5	7.40	6.16	10.91	14.11	11.1	14.4	11.8	10.7	10.6	9.2	13.2	13.6	17.5	9.0	13.6
52	10.9	11.25	15.27	13.30	15.82	16.6	16.2	15.6	13.8	14.6	14.9	17.3	17.3	16.3	19.0	16.5
53	2.7	10.42	11.32	13.82	16.06	16.9	16.8	15.1	14.5	14.3	15.3	15.2	17.6	19.9	19.2	16.8
54	12.9	11.15	21.39	17.42	17.50	17.9	16.3	17.0	15.6	17.0	16.6	20.2	19.1	19.9	19.3	18.0
55	2.8	10.08	11.44	14.52	16.67	17.1	16.1	16.8	14.5	15.4	14.4	16.0	17.5	18.7	19.4	16.7
56	7.2	9.82	17.21	14.96	16.75	16.7	16.1	17.1	15.0	15.4	14.6	16.9	17.8	19.2	19.4	16.7
57	13.5	12.00	22.02	16.65	18 90	18.4	16.5	16.9	14.7	17.5	18.8	21.0	19.9	20.0	19.8	17.1
58	31.4	20.10	25.13	21.25	25.13	21.2	17.5	21.0	21.0	21.3	21.0	24.2	23.4	24.6	23.9	20.7
59	2.7	10.70	11.25	15.43	17.22	16.7	16.1	16.7	14.8	14.7	16.4	17.6	17.9	19.7	19.0	17.0
60	2.6	13.00	15.86	17.09	19.71	17.5	16.6	18.0	17.1	18.3	18.2	18.9	19.7	20.8	21.0	18.0
61	5.4	9.65	15.05	14.75	16.68	15.9	-	15.5	15.0	16.2	16.1	17.5	17.4	18.4	18.0	17.0
62	6.9	2.34	6.25	8.05	9.18	9.6	-	8.1	4.3	7.2	8.0	11.3	9.4	10.1	8.2	6.0
63	7.9	7.80	17.46	14.95	15.86	14.2	-	14.4	12.9	13.3	13.0	14.8	15.7	17.5	17.8	16.5
64	9.3	6.65	14.48	13.10	14.73	13.6	-	12.3	11.8	12.5	12.6	12.9	14.1	15.5	16.9	14.9
65	3.1	3.50	6.07	9.21	11.73	10.9	-	9.0	8.5	9.6	-	-	-	-	13.0	11.6
66	2.7	0.23	0.39	1.42	2.76	1.0	-	0	0	0.8	-	-	-	-	1.5	0.4
67	6.8	4.55	14.24	11.80	12.82	11.6	-	10.2	10.0	10.9	11.0	11.6	12.9	14.9	14.3	12.0
68	5.9	2.78	12.43	10.31	11.94	9.4	-	8.3	8.3	9.5	10.1	9.7	11.0	12.9	12.8	11.5
70	16.8	9.42	17.04	14.76	17.13	15.9	16.5	15.5	15.2	15.2	16.3	17.9	19.0	18.8	17.9	15.9
71	15.4	8.70	19.19	13.72	15.93	16.1	15.2	14.7	13.3	14.2	15.6	15.3	17.5	17.9	17.5	15.1
72	2.3	6.46	9.43	11.66	13.28	12.7	12.8	11.8	11.7	11.3	11.2	13.2	14.2	13.6	13.9	13.1
73	2.7	5.10	8.99	11.08	11.47	13.0	12.14	10.5	11.1	10.2	11.1	12.7	13.4	12.3	12.3	12.3
74	2.7	3.65	6.54	10.40	11.31	11.8	12.72	8.3	8.2	8.6	7.2	12.1	13.3	10.0	11.9	8.0
75	2.3	2.89	5.71	10.69	8.60	10.2	11.36	7.1	7.8	6.6	7.9	11.0	10.5	8.0	11.7	9.2
76	2.6	2.40	4.17	8.95	8.33	11.3	11.32	10.0	5.1	5.9	6.3	10.7	12.0	6.3	7.8	5.3
77	2.7	0.82	2.82	7.75	5.46	6.5	6.3	4.0	5.4	3.9	5.7	8.4	6.6	2.8	4.1	4.9
78	2.5	0.21	0.18	4.84	2.68	2.5	-	2.7	0.7	1.0	0.4	3.7	4.2	0	.4	0.3
79	2.4	0.10	0.09	0.62	0.34	0	-	0	0	0	0	0.2	0.2	0	0	0
80	2.3	0.12	0.10	0.18	0.19	0	-	0	0	0	0	0	0	0	0	0

* Station 47 relocated in April 1985

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Table III-1. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
01	2.3	12.9	14.4	8.6	10.3	13.3	14.2	16.0	16.6	12.5	15.1	12.7	8.7
02	6.1	12.8	14.5	9.8	9.9	14.4	14.4	17.0	16.4	13.1	16.9	12.4	9.1
03	13.6	17.8	15.5	20.2	15.8	18.5	21.8	20.8	18.4	18.4	16.5	19.5	20.0
04	28.3	20.2	18.9	22.1	18.4	20.9	22.6	22.0	25.4	22.1	-	21.2	21.5
05	3.0	13.9	13.6	11.3	11.0	13.2	16.0	16.8	19.0	14.6	-	16.2	16.8
06	2.9	12.7	14.6	8.6	10.4	13.0	14.0	16.3	16.4	12.5	15.2	12.1	10.6
07	5.7	13.0	15.2	10.2	9.9	14.1	14.2	16.9	16.4	12.3	16.0	11.8	8.9
08	12.4	13.6	16.3	19.4	15.5	18.0	21.6	19.9	16.7	17.9	16.1	18.6	18.4
09	2.8	12.4	14.4	8.6	10.1	13.5	14.0	15.6	17.1	12.0	15.3	11.7	9.0
10	6.5	12.6	14.8	9.4	10.2	14.9	13.9	16.6	16.1	12.2	16.1	12.1	8.4
11	12.2	13.1	16.7	18.6	15.3	18.6	21.4	19.9	16.3	18.3	15.8	18.4	18.6
12	2.1	12.0	14.7	8.2	9.4	13.2	13.9	15.3	16.0	12.5	15.2	11.3	8.0
13	5.8	12.0	15.1	9.4	10.8	13.6	13.9	15.7	16.1	12.6	15.3	11.3	8.3
14	11.7	13.8	16.9	20.9	14.9	18.6	20.6	20.6	16.5	18.6	16.4	18.5	17.0
15	2.2	10.9	13.8	8.3	9.4	12.0	12.7	15.6	16.0	13.7	14.3	9.6	6.5
16	13.7	18.0	15.7	18.8	17.2	16.7	20.8	17.5	23.8	19.4	16.5	18.0	19.3
17	26.7	19.5	19.1	21.2	18.4	19.6	22.4	20.9	24.3	20.2	19.1	21.5	20.5
18	2.7	11.0	12.6	8.9	10.0	11.7	12.8	16.2	18.4	13.0	-	16.5	13.5
19	3.1	11.8	12.9	8.3	9.2	12.0	11.5	14.5	16.1	13.7	-	10.0	4.5
20	10.6	12.3	13.9	16.9	10.0	13.5	18.8	16.7	17.9	17.9	-	18.0	16.8
21	28.8	18.7	19.1	20.5	17.9	19.3	22.1	20.3	23.8	18.4	-	21.1	20.2
22	3.9	9.9	11.7	8.5	9.5	7.9	9.3	11.1	13.9	11.9	-	11.1	9.1
23	5.5	9.9	10.6	8.9	9.7	8.2	10.4	11.3	13.8	11.1	-	11.5	8.8
24	6.5	10.6	10.5	13.7	14.6	8.3	15.3	13.5	18.5	16.9	-	17.3	13.2
25	7.0	11.6	11.1	14.8	-	10.8	16.0	13.1	15.3	17.2	-	15.9	13.6
26	4.0	2.6	5.6	2.5	1.5	2.5	4.4	8.6	10.4	4.4	-	6.0	0.1
27	5.8	-	0	0	0	0	0.7	3.5	5.8	0.4	-	1.5	0.0
28	3.6	-	0	0	0	0	0.0	0.4	2.9	0.0	-	1.1	0.0
29	5.7	-	0	0	0.1	0	1.3	1.6	3.7	0.0	-	2.0	0.0
36	2.5	0	0	0	0	0	0.0	0.0	0.0	0.0	-	0.0	0.0
38	5.7	0	0	0	0	0.2	4.6	3.4	4.6	2.1	-	0.0	0.0
39	2.2	3.9	1.9	0.1	2.5	3.7	6.5	7.0	8.3	5.9	1.9	2.2	0.6
40	8.0	1.9	3.1	0.9	4.0	3.5	6.7	7.4	8.5	7.5	1.1	4.7	3.3
43	2.5	9.2	7.0	4.2	5.4	8.4	9.9	10.9	12.5	11.0	8.1	8.5	4.4
44	12.8		8.3	6.1	9.5	10.3	14.2	11.3	13.5	13.3	10.1	11.1	14.5

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Table III-1. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
45	2.5	9.9	7.3	4.1	6.3	9.1	10.2	11.1	13.0	10.4	8.2	8.7	5.0
46	13.5	8.9	7.9	6.4	8.7	10.8	12.5	11.3	13.0	13.7	10.2	11.1	13.8
47*	2.3	9.4	7.1	4.0	6.4	8.7	10.6	11.1	13.1	10.5	7.3	8.5	5.9
48	18.3	10.8	8.3	6.7	10.1	10.3	14.2	11.4	13.3	14.2	10.7	11.8	14.6
49	2.2	10.7	7.4	5.4	6.8	9.1	11.5	11.7	13.8	12.2	10.6	10.7	9.8
50	13.8	10.5	8.2	7.2	10.2	10.7	14.9	-	13.8	14.3	10.7	12.3	13.7
51	2.5	12.7	10.7	8.9	11.3	10.6	14.0	15.4	15.9	14.5	10.8	12.5	9.5
52	10.9	13.2	13.1	11.5	12.9	16.3	18.9	14.4	16.5	17.1	14.5	16.1	16.4
53	2.7	14.6	13.6	11.4	11.9	13.6	15.3	16.8	18.1	16.7	13.9	14.8	12.5
54	12.9	15.1	14.0	11.8	14.6	15.2	19.7	17.7	19.1	14.1	16.7	16.3	17.9
55	2.8	13.9	14.5	11.6	12.8	14.4	15.5	17.0	17.2	16.0	15.6	13.8	12.7
56	7.2	14.5	14.5	12.4	13.7	14.5	15.8	17.0	17.7	16.1	15.6	13.6	15.5
57	13.5	15.4	14.6	18.0	14.9	16.0	20.7	17.6	21.2	16.2	17.4	17.3	19.1
58	31.4	19.4	19.5	21.9	18.8	21.0	23.2	21.8	25.1	23.0	-	22.4	21.3
59	2.7	14.8	13.8	12.9	14.1	15.0	15.8	17.0	19.2	17.6	-	17.2	17.3
60	2.6	15.4	15.5	15.9	15.7	16.9	17.4	18.5	21.5	18.7	-	19.1	17.8
61	5.4	14.2	13.3	13.8	13.7	15.8	15.6	16.4	19.6	17.6	-	17.0	16.6
62	6.9	3.8	2.9	3.5	6.9	8.6	9.5	10.6	13.4	8.0	-	7.7	6.8
63	7.9	13.8	12.4	13.6	11.2	12.3	13.2	15.2	18.3	15.9	-	16.4	15.2
64	9.3	12.8	10.9	11.3	9.6	11.0	11.8	12.9	14.9	14.5	-	14.0	14.1
65	3.1	-	6.5	8.3	6.9	7.5	10.0	11.3	12.2	10.4	-	9.7	8.9
66	2.7	-	0	0	0	0.8	3.8	3.3	3.5	0.3	-	0.0	0.0
67	6.8	10.0	9.7	13.6	-	9.9	11.3	12.3	15.3	11.8	-	14.7	11.4
68	5.9	8.3	8.1	10.6	-	8.7	10.3	10.9	12.2	11.4	-	9.7	10.1
70	16.8	13.8	14.1	14.6	15.9	17.0	18.2	17.1	18.4	16.8	-	15.2	16.2
71	15.4	13.5	13.3	14.1	12.5	14.0	15.0	15.7	16.6	15.3	14.3	14.4	15.3
72	2.3	12.1	9.6	8.3	9.8	12.6	13.3	13.1	15.5	14.2	12.0	12.4	11.6
73	2.7	11.8	10.0	7.8	8.6	10.3	12.7	13.2	14.7	13.0	11.8	12.1	12.4
74	2.7	6.5	8.4	6.6	7.0	9.5	11.8	12.2	13.6	10.8	10.6	11.1	10.4
75	2.3	9.1	7.6	5.4	6.2	8.9	11.2	11.3	12.7	10.2	9.8	9.0	10.5
76	2.6	4.8	6.1	3.4	5.0	9.1	11.1	11.7	13.0	8.9	9.4	9.3	9.9
77	2.7	4.7	4.1	1.4	2.4	7.4	8.9	10.5	11.1	5.6	7.3	2.9	8.2
78	2.5	0.4	0	0	0	2.5	5.1	4.8	6.2	0.2	-	0.8	3.3
79	2.4	0	0	0	0	0	0.7	1.0	0.6	0.0	-	0.0	0.0
80	2.3	0	0	0	0	0	0	0.2	0.0	0.0	-	0.0	0.0

* Station 47 relocated in April 1985

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Table III-1. Continued

Station	Average Station Depth	1987 May	1987 Jun	1987 Jul	1987 Aug	1987 Oct	1987 Dec	1988 Jan	1988 Mar	1988 Apr	1988 May	1988 Jun	1988 Aug
		Salinity											
01	2.3	12.6	14.9	12.9	15.2	16.4	14.7	15.7	11.1	12.8	12.7	9.8	14.2
02	6.1	12.5	14.9	13.0	15.1	18.5	14.6	15.4	11.1	14.0	13.3	10.0	14.1
03	13.6	19.1	16.6	18.4	17.8	19.0	18.4	15.7	18.4	15.9	17.1	18.1	17.0
04	28.3	19.6	19.3	19.4	24.6	20.4	20.6	-	19.4	17.0	18.0	20.0	19.1
05	3.0	14.2	14.0	14.1	16.3	15.3	15.8	15.3	13.8	13.3	13.6	9.8	14.3
06	2.9	12.4	15.0	12.9	15.0	16.6	14.2	14.7	11.2	12.9	12.7	10.1	14.1
07	5.7	12.6	15.5	13.0	15.0	17.3	14.4	14.7	12.1	13.6	12.9	9.3	14.3
08	12.4	18.5	16.7	17.6	18.4	18.8	17.6	16.9	17.3	15.4	15.7	16.2	14.2
09	2.8	12.4	13.9	12.6	14.6	14.9	14.2	15.0	10.9	13.0	12.7	9.1	14.2
10	6.5	12.4	14.5	12.7	15.0	18.3	14.1	14.8	11.5	13.2	12.6	8.9	14.2
11	12.2	18.4	17.4	17.3	18.4	18.8	15.6	16.6	16.9	15.0	14.7	16.2	14.1
12	2.1	12.3	14.5	12.3	14.3	16.0	14.3	14.6	10.8	12.3	12.1	9.1	13.8
13	5.8	12.3	15.5	12.3	14.6	17.5	14.5	14.9	10.8	13.0	12.1	9.1	13.8
14	11.7	18.5	19.1	17.8	17.7	18.9	16.6	17.3	17.0	15.2	14.0	14.1	14.3
15	2.2	11.7	12.5	11.1	13.9	13.5	13.0	14.1	9.9	10.2	10.5	7.2	13.1
16	13.7	18.2	17.2	16.2	19.2	17.6	18.0	16.7	16.5	13.5	12.9	6.4	14.0
17	26.7	18.4	18.4	18.2	21.8	19.5	19.6	18.9	18.0	15.8	16.9	18.5	17.7
18	2.7	12.7	11.6	13.1	13.8	14.5	14.3	-	-	12.2	12.5	8.6	13.4
19	3.1	10.8	11.4	10.5	13.4	12.0	12.3	-	-	-	9.2	6.4	-
20	10.6	15.5	16.5	14.1	14.5	16.5	15.1	-	-	12.2	11.0	14.7	13.3
21	28.8	18.5	18.8	17.5	20.3	18.9	19.9	-	-	16.0	16.0	18.0	17.6
22	3.9	9.1	10.2	7.9	11.5	11.0	9.6	-	-	5.8	5.9	6.9	8.7
23	5.5	8.9	10.0	8.3	11.1	11.2	11.0	-	-	5.4	5.9	7.5	9.0
24	6.5	12.9	13.8	10.9	13.0	11.1	15.8	-	-	5.4	6.6	7.2	9.8
25	7.0	9.6	10.4	11.9	16.6	13.1	15.9	-	-	13.0	12.0	14.3	-
26	4.0	4.6	5.0	3.5	7.5	8.0	4.1	-	-	0.0	2.1	1.8	6.4
27	5.8	0.2	0.2	0.0	4.5	3.0	0.3	-	-	0.0	-	0.0	-
28	3.6	0.0	0.0	0.0	1.2	2.1	0.0	-	-	0.0	-	0.0	0.0
29	5.7	0.8	1.0	1.1	2.0	0.0	0.2	-	-	0.4	-	0.1	0.4
36	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
38	5.7	0.0	0.0	0.0	3.2	2.7	2.9	-	0.0	0.0	-	0.0	0.9
39	2.2	1.4	4.4	3.4	5.8	4.9	7.0	1.0	1.1	2.9	0.0	0.0	5.1
40	8.0	2.7	5.5	3.3	7.3	6.1	9.1	5.1	6.1	2.6	0.0	0.0	6.3
43	2.5	4.9	9.5	9.2	10.2	10.3	10.9	4.2	6.8	6.9	3.1	4.5	9.4
44	12.8	10.8	11.2	10.4	11.1	15.3	16.2	12.4	10.9	8.4	5.4	8.3	10.7

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Table III-1. Continued

Station	Average Station Depth	Salinity 1987 May	Jun	Jul	Aug	Oct	Dec	1988 Jan	Mar	Apr	May	Jun	Aug
45	2.5	6.2	8.2	9.5	10.6	11.8	11.0	5.9	7.6	7.5	3.9	5.2	9.7
46	13.5	10.6	10.6	10.6	11.2	13.4	15.3	12.4	11.3	8.2	5.4	8.9	10.4
47*	2.3	6.6	8.6	9.6	10.6	10.9	8.0	4.6	7.4	7.4	4.2	5.3	9.4
48	18.3	11.5	11.4	10.6	11.3	15.1	15.7	12.7	11.5	8.3	5.2	8.9	10.9
49	2.2	9.4	9.0	10.3	10.9	11.7	11.9	8.3	9.2	8.1	4.7	7.6	10.3
50	13.8	11.2	11.7	11.1	11.5	15.7	16.1	12.6	11.5	8.8	6.1	8.6	11.0
51	2.5	7.1	10.2	11.6	14.0	12.0	12.7	11.2	9.9	10.2	8.5	10.4	12.1
52	10.9	14.2	15.1	14.6	15.3	17.8	17.8	15.4	14.9	12.4	11.3	9.8	14.2
53	2.7	13.6	12.4	14.6	16.4	17.7	17.1	16.0	12.9	13.7	13.5	11.3	14.8
54	12.9	19.7	16.9	14.9	16.5	17.9	19.9	16.0	14.8	14.1	15.2	12.5	16.4
55	2.8	13.5	14.6	14.1	15.3	17.4	16.5	16.1	13.4	13.6	14.2	10.9	15.4
56	7.2	15.3	15.2	14.4	15.9	17.7	17.1	16.1	14.2	13.6	15.0	12.1	15.6
57	13.5	19.8	17.6	16.5	17.6	18.8	18.3	18.7	16.6	14.2	16.2	14.9	16.5
58	31.4	22.0	20.6	22.8	25.0	21.5	20.8	-	20.4	16.5	18.7	19.2	19.7
59	2.7	15.1	14.4	15.3	16.6	18.7	17.5	-	14.6	15.1	-	14.4	15.3
60	2.6	18.5	16.8	16.4	18.9	18.3	17.8	-	16.4	16.0	16.3	16.2	-
61	5.4	14.8	15.4	14.9	16.9	17.7	17.7	-	15.2	13.5	14.4	14.2	15.1
62	6.9	4.3	8.4	8.5	11.3	11.6	11.2	-	-	2.0	-	5.2	8.5
63	7.9	13.7	13.2	13.6	14.0	15.4	15.4	-	-	13.3	12.9	11.1	14.8
64	9.3	11.7	11.2	11.5	12.4	14.3	14.4	-	-	11.5	12.0	10.4	11.4
65	3.1	9.5	7.8	9.3	10.7	12.0	12.5	-	-	9.5	-	7.6	8.4
66	2.7	0.0	0.0	1.7	-	6.1	4.3	-	-	0.0	-	0.0	2.0
67	6.8	10.5	10.6	10.6	11.8	12.4	10.7	-	-	9.7	9.7	10.6	-
68	5.9	8.9	9.4	9.4	10.4	10.4	10.6	-	-	8.7	7.2	6.4	-
70	16.8	15.6	17.2	15.3	17.0	17.3	17.3	-	15.2	13.2	13.7	15.0	14.7
71	15.4	14.4	14.5	13.4	14.8	15.9	15.8	14.9	13.4	12.5	13.0	11.0	14.0
72	2.3	10.4	10.7	12.0	13.0	14.4	13.2	12.3	11.0	3.8	9.0	9.8	11.8
73	2.7	10.4	9.9	11.6	12.1	13.3	11.7	10.8	11.0	10.1	8.8	9.8	11.2
74	2.7	8.6	8.6	10.8	11.3	11.7	10.2	9.3	8.6	7.1	6.9	8.0	10.3
75	2.3	7.5	7.2	10.0	10.3	11.0	8.5	5.3	7.7	5.2	6.4	6.5	9.4
76	2.6	7.2	6.4	9.9	9.3	9.9	7.8	7.6	7.9	5.1	4.7	6.6	8.9
77	2.7	5.6	5.2	5.1	7.1	7.1	5.3	5.8	4.3	1.9	3.1	1.9	6.7
78	2.5	0.6	0.4	1.6	4.1	2.7	0.6	-	0.0	0.0	0.0	0.2	1.6
79	2.4	0.0	0.0	0.0	0.5	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
80	2.3	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

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Table III-2. Classification of stations into salinity zones based on percentages of station visits falling into various salinity strata (modified from the Venice system)

Salinity Strata	Station Number	Location
Tidal Freshwater	26	Upper Potomac River
	80	Upper Patuxent River
Transitional Fresh-water/Oligohaline	79	Upper Patuxent River
	28	Upper Bay
	38	Upper Potomac River
	66	Upper Choptank River
Transitional Fresh-water/Oligohaline/ Low Mesohaline	27, 29	Upper Bay
	78	Mid-Patuxent River
	39, 40	Mid-Potomac River
	26	Mid-Bay
Low Mesohaline	74, 75, 76, 77	Mid-Patuxent River
	62	Mid-Nanticoke River
	43, 44, 99, 49	Mid-Potomac River
	65	Upper Choptank River
	68	Mid Chester
	22, 23	Baltimore Harbor
High Mesohaline	67	Lower Chester River
	24, 25	Mid-Bay
	44, 46, 48, 50	Mid-Potomac River
	01, 02, 03, 05	Calvert Cliffs/
	06, 07, 08, 09	Mid-Bay
	10, 11, 12, 13	
	14, 15, 16, 18	
	19, 20	
	51, 52, 53, 54	Lower Potomac River
	73	Mid-Patuxent River
	70, 71, 72	Lower Patuxent River
	63, 64	Lower Choptank River
	61	Lower Nanticoke River
	55, 56, 57, 59	Lower Maryland Bay
	60	Tangier Sound
Polyhaline	04, 17, 21	Calvert Cliffs/ Mid-Bay
	58	Lower Maryland Bay

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Table III-3. Bottom temperature (°C) measured at long-term benthic monitoring stations in Chesapeake Bay, July 1984 to August 1988. Dashes indicate mising values.

Station	Average Station Depth	1984					1985									
		Jul	Aug	Sep	Oct/ Nov	Dec	Jan/ Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
01	2.3	25.92	26.34	24.45	19.99	6.50	1.27	5.01	11.92	18.70	21.21	25.15	25.22	21.40	15.00	9.90
02	6.1	25.66	25.75	22.41	19.46	6.54	1.42	5.40	11.72	18.07	21.33	24.75	25.47	22.01	14.85	10.16
03	13.6	23.78	23.84	22.32	18.28	7.88	1.18	3.36	10.39	16.45	19.75	23.45	25.23	22.38	15.52	10.56
04	28.3	21.71	24.37	24.23	17.95	9.33	1.01	2.15	8.84	14.28	19.46	23.31	25.13	22.68	16.00	11.54
05	3.0	25.90	25.93	20.81	19.14	6.22	0.28	4.83	12.47	18.98	24.18	27.62	24.55	20.21	14.54	8.75
06	2.9	26.05	26.26	22.94	20.01	6.37	2.36	5.74	11.75	19.25	21.49	25.00	25.39	21.18	15.90	10.02
07	5.7	26.38	26.56	22.21	19.27	6.94	1.28	5.86	12.79	19.10	22.13	25.01	25.54	21.84	14.69	10.29
08	12.4	25.65	23.66	22.92	18.70	7.09	0.69	3.67	9.70	16.94	19.75	23.40	25.16	21.82	14.73	10.19
09	2.8	26.48	27.20	20.95	21.04	6.06	1.28	5.15	11.35	18.91	20.11	24.94	25.29	21.04	16.18	9.72
10	6.5	26.23	27.47	21.40	20.56	8.03	1.71	5.19	11.70	18.00	21.29	25.07	25.28	21.74	15.36	9.97
11	12.2	24.80	23.70	22.90	18.50	7.04	0.77	3.64	9.53	17.09	21.54	23.37	25.16	21.86	14.88	10.40
12	2.1	25.79	25.79	22.80	18.67	6.35	0.66	4.94	10.67	19.01	20.71	26.28	25.33	20.10	15.21	9.87
13	5.8	25.42	25.30	20.85	18.97	6.18	0.45	4.25	10.29	18.82	21.31	25.16	24.94	21.53	14.67	9.75
14	11.7	24.15	23.79	22.25	18.77	6.85	0.96	3.77	9.40	17.33	19.58	23.25	25.10	21.98	14.63	10.10
15	2.2	25.62	26.81	20.65	18.50	5.58	-0.05	4.23	12.38	19.42	21.40	25.22	25.28	22.31	13.95	9.06
16	13.7	22.15	22.92	22.35	18.33	8.14	0.67	3.13	8.29	17.93	19.19	23.66	24.92	22.56	14.67	10.63
17	26.7	21.55	22.89	24.70	18.07	9.20	1.28	1.93	7.76	15.16	19.21	23.09	25.14	23.63	15.92	11.72
18	2.7	26.35	25.34	22.05	18.62	6.60	0.42	4.43	11.47	18.65	22.10	25.27	24.42	21.79	14.45	7.45
19	3.1	27.35	25.12	21.04	18.53	6.06	-0.55	5.69	13.53	19.87	22.33	25.92	24.76	22.62	13.62	8.85
20	10.6	23.28	22.98	22.70	18.49	7.95	0.38	3.58	8.48	17.25	19.93	23.62	24.69	22.67	13.98	10.08
21	28.8	21.10	22.96	24.55	18.05	9.02	1.05	1.98	7.79	13.86	19.05	23.08	25.12	23.82	15.92	10.93
22	3.9	26.79	25.38	22.25	18.86	6.48	-	5.13	11.38	21.49	23.69	26.01	24.86	22.46	13.97	7.19
23	5.5	26.20	24.85	21.75	18.95	5.94	-	4.99	11.17	20.22	22.60	26.08	24.92	22.36	13.43	8.28
24	6.5	24.97	23.68	22.15	18.67	7.23	-	3.80	8.61	19.17	20.22	25.48	24.55	21.97	13.78	8.62
25	7.0	25.20	23.12	21.50	18.54	6.93	-	4.08	11.23	16.77	21.92	25.39	24.78	22.91	13.72	9.82
26	4.0	26.05	25.38	20.62	18.04	4.39	-	4.79	11.43	19.82	22.14	26.48	24.42	21.46	12.50	6.17
27	5.8	26.15	25.95	20.78	18.45	4.03	-	4.82	11.79	20.27	22.78	26.52	24.64	21.93	9.89	4.04
28	3.6	26.75	24.43	19.62	17.97	3.75	-	5.67	11.86	20.45	23.33	26.98	24.39	21.86	9.41	4.29
29	5.7	26.66	26.20	20.92	18.19	3.96	-	5.46	12.66	20.94	23.11	27.45	25.15	22.07	12.24	5.25
36	2.5	26.98	24.84	24.75	20.00	5.62	-	9.49	14.50	22.54	24.00	27.97	26.51	23.06	11.97	4.18
38	5.7	26.43	25.59	24.00	19.37	5.36	-	9.03	12.97	22.03	25.06	27.25	25.67	22.79	12.78	5.10
39	2.2	26.40	25.96	23.65	19.69	6.41	-	8.91	12.95	21.42	24.48	28.58	26.13	23.50	13.16	5.08
40	8.0	26.45	22.77	23.65	19.50	6.28	-	9.15	12.30	21.20	24.37	26.63	25.66	22.92	13.34	6.20
43	2.5	26.06	26.04	24.05	20.24	7.93	0.30	8.67	12.12	21.72	24.16	26.93	25.84	23.51	14.86	6.33
44	12.8	2 .10	26.49	24.02	19.38	7.33	-0.27	6.66	9.43	17.96	21.91	25.80	25.42	23.30	15.20	8.20

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Table III-3. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/ Nov	Dec	1985 Jan/ Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
45	2.5	26.25	28.73	24.02	20.33	8.47	0.02	8.78	12.76	22.14	24.32	27.11	26.07	23.94	15.29	6.75
46	13.5	26.10	26.27	24.00	19.51	7.35	-0.39	6.62	10.01	18.11	21.63	25.73	25.48	23.27	15.18	8.28
47*	2.3	26.34	29.65	24.05	20.66	9.58	1.10	9.10	13.19	22.10	25.39	27.01	25.82	24.31	15.09	6.91
48	18.3	25.95	26.23	24.00	19.22	7.35	-0.35	6.46	9.52	17.37	21.63	25.49	25.38	23.27	15.21	8.43
49	2.2	25.95	26.00	23.60	20.37	7.08	-0.28	7.15	13.25	24.80	24.20	26.70	25.31	23.66	13.90	5.64
50	13.8	26.25	26.34	23.81	19.23	7.33	-0.21	6.44	9.68	17.39	21.64	25.51	25.29	23.17	15.29	8.23
51	2.5	26.19	26.04	23.28	19.04	7.68	-0.18	6.97	13.52	22.01	23.98	26.73	25.16	23.24	14.45	7.96
52	10.9	24.10	25.20	23.85	18.39	7.77	0.20	4.98	9.16	15.89	20.52	24.05	25.30	23.12	15.39	9.33
53	2.7	26.35	26.18	23.95	19.50	7.88	0.44	6.09	11.01	20.32	23.86	26.24	25.54	23.23	14.73	8.01
54	12.9	25.42	24.65	24.05	18.72	7.73	0.59	5.53	9.66	16.12	20.82	23.78	25.33	23.19	14.90	9.01
55	2.8	26.40	25.80	24.10	19.30	7.82	0.93	5.62	12.23	18.50	23.92	26.51	26.16	23.11	16.51	8.36
56	7.2	26.04	25.19	23.82	18.84	7.47	0.77	5.02	10.00	16.85	22.36	25.63	25.54	23.02	15.48	8.00
57	13.5	24.60	23.44	23.80	18.37	7.80	0.60	5.07	9.50	15.61	20.08	24.06	25.23	23.15	15.14	9.22
58	31.4	23.65	24.64	24.82	18.00	8.63	0.36	3.48	8.52	15.06	19.95	23.22	25.42	23.28	15.76	10.23
59	2.7	26.90	25.76	22.77	19.69	6.17	0.31	7.79	13.28	20.75	24.60	26.33	26.41	22.96	15.89	6.73
60	2.6	27.22	25.30	24.07	19.00	6.19	-0.35	7.17	14.23	21.04	23.97	26.08	26.10	22.46	15.00	4.96
61	5.4	26.70	25.17	23.79	19.36	5.28	-	7.24	12.97	20.77	23.20	26.54	25.25	22.09	15.18	5.41
62	6.9	27.32	25.99	23.95	19.19	5.17	-	9.12	13.60	21.53	23.76	27.70	25.89	22.13	15.12	6.02
63	7.9	25.95	24.39	22.02	19.30	5.05	-	5.42	11.66	20.57	23.67	26.41	25.18	22.01	14.36	7.04
64	9.3	26.15	25.65	21.66	19.67	4.74	-	6.84	12.55	21.04	23.58	26.80	25.38	22.37	14.42	7.19
65	3.1	26.72	27.27	21.52	19.80	4.81	-	7.55	13.41	21.67	-	-	-	-	14.91	6.95
66	2.7	27.14	28.04	21.10	20.16	4.92	-	10.21	15.72	22.83	-	-	-	-	14.75	6.24
67	6.8	26.90	24.66	20.95	19.06	4.29	-	5.92	10.62	20.19	23.55	25.60	24.90	21.73	13.28	6.69
68	5.9	27.45	25.21	21.42	19.12	4.53	-	7.33	13.18	21.21	23.83	27.30	25.38	22.03	13.39	6.57
70	16.8	25.38	24.06	22.66	19.31	7.20	0.98	5.28	10.67	16.29	20.85	23.65	25.25	21.86	14.15	8.82
71	15.4	26.29	23.66	23.25	19.04	7.03	0.64	6.22	12.26	18.55	21.42	25.01	25.35	21.93	14.88	7.70
72	2.3	25.50	25.07	22.16	20.74	7.32	0.20	8.72	15.88	20.00	21.21	27.80	26.04	21.29	12.61	6.41
73	2.7	26.15	25.62	22.10	22.24	7.36	0.21	8.84	16.71	20.87	22.62	28.37	26.33	21.32	13.19	6.63
74	2.7	26.61	26.15	22.20	22.40	7.52	0.25	11.76	19.76	21.76	23.82	28.84	26.80	21.54	13.27	7.33
75	2.3	26.65	25.80	22.43	22.32	7.84	0.67	10.57	18.93	21.70	23.50	29.86	27.57	21.55	12.96	5.63
76	2.6	26.42	26.13	22.52	22.72	7.75	1.15	9.27	18.86	21.56	24.30	30.83	27.55	21.47	12.76	5.88
77	2.7	26.02	25.74	21.96	22.02	7.37	-0.04	10.21	19.23	21.16	24.40	29.44	26.95	20.39	12.78	5.40
78	2.5	25.65	24.98	22.51	21.43	5.99	-	9.26	16.95	20.53	23.50	29.17	26.52	18.91	11.60	4.19
79	2.4	23.81	23.92	20.60	21.68	6.04	-	8.76	18.68	18.52	22.42	29.28	25.68	18.27	9.33	3.12
80	2.3	22.52	22.03	19.03	21.17	7.97	-	8.59	18.13	17.36	20.64	27.85	24.54	17.26	8.71	3.55

* Station 47 relocated in April 1985

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Table III-3. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
01	2.3	2.72	3.63	11.09	13.43	24.09	27.18	22.95	16.08	5.90	1.58	4.07	10.20
02	6.1	2.25	2.95	9.96	13.95	22.96	27.12	23.17	15.68	6.02	2.12	4.16	10.27
03	13.6	2.70	2.40	9.11	10.86	18.74	24.57	23.17	16.20	8.42	1.86	3.99	6.81
04	28.3	2.81	2.92	9.73	11.33	18.42	24.80	23.13	17.60	9.65	-	4.13	6.28
05	3.0	2.34	2.72	9.79	15.40	24.96	26.19	22.46	15.69	5.54	-	4.79	8.70
06	2.9	3.03	3.50	11.01	13.71	24.44	27.05	22.94	15.58	5.98	1.20	4.18	9.89
07	5.7	3.54	3.70	11.80	13.91	23.32	27.26	23.71	15.59	5.71	1.58	4.30	10.50
08	12.4	2.53	2.75	8.51	10.87	19.13	24.62	23.81	15.87	8.27	1.77	3.90	7.44
09	2.8	2.06	4.76	11.52	13.54	25.00	26.55	22.71	14.51	6.51	0.98	4.14	10.21
10	6.5	2.43	3.65	11.32	14.17	22.18	26.89	24.38	14.74	5.51	1.73	4.23	10.61
11	12.2	2.47	2.81	8.39	10.82	18.82	24.68	23.17	15.70	8.58	1.60	3.90	7.37
12	2.1	1.98	3.03	11.65	14.01	22.33	27.49	23.09	14.44	5.59	0.85	4.33	11.41
13	5.8	2.02	2.44	9.88	12.49	21.73	26.68	22.94	15.07	6.22	0.92	4.19	10.61
14	11.7	2.33	2.67	9.02	10.72	18.86	24.75	23.23	15.73	8.62	2.14	3.95	7.87
15	2.2	1.68	3.63	11.11	12.14	25.48	27.85	22.91	14.51	7.04	0.27	4.89	11.57
16	13.7	2.65	2.40	8.08	11.34	18.66	24.82	23.18	17.63	10.02	2.00	3.95	7.05
17	26.7	2.87	2.76	8.90	11.45	17.63	24.65	23.30	17.70	10.15	3.76	4.08	6.44
18	2.7	0.79	4.61	10.25	12.05	24.94	26.72	20.27	15.99	6.43	-	4.22	10.62
19	3.1	0.62	4.54	10.24	12.58	22.48	27.74	22.63	14.36	7.66	-	4.83	11.02
20	10.6	1.46	2.14	7.19	12.19	20.77	24.65	23.30	16.01	9.77	-	3.68	7.81
21	28.8	2.81	2.68	8.65	11.26	17.02	24.58	23.43	17.66	9.59	-	3.98	6.43
22	3.9	1.17	4.50	9.56	12.72	25.10	26.74	22.80	15.95	8.03	-	5.35	10.79
23	5.5	1.08	4.62	9.34	12.65	24.63	26.83	22.76	15.54	7.04	-	4.92	10.53
24	6.5	0.72	3.42	7.70	11.00	23.48	25.54	22.67	16.78	9.03	-	3.64	8.62
25	7.0	1.37	3.60	7.50	-	23.13	25.23	22.12	14.83	9.03	-	3.79	8.33
26	4.0	0.23	3.21	10.48	12.88	24.79	27.21	21.72	14.28	4.88	-	4.24	9.13
27	5.8	1.54	2.72	11.15	14.01	25.13	27.58	21.36	13.95	3.58	-	4.22	9.15
28	3.6	-	3.90	11.60	14.57	24.27	26.30	20.78	13.49	3.06	-	4.28	8.85
29	5.7	-	4.08	10.99	14.90	25.62	27.67	21.31	13.43	3.45	-	4.32	9.59
36	2.5	1.54	7.84	11.75	19.07	26.37	28.21	21.44	14.39	4.48	-	8.27	11.70
38	5.7	1.09	5.55	12.87	17.27	25.41	28.60	20.93	14.01	5.47	-	6.67	11.07
39	2.2	0.86	5.70	12.28	16.31	25.88	28.12	20.78	13.92	5.99	-0.01	6.59	10.98
40	8.0	0.60	5.55	12.45	15.95	24.92	28.14	21.26	14.38	6.24	0.09	6.35	10.92
43	2.5	1.99	5.37	11.96	16.11	24.27	27.88	22.07	14.89	7.01	1.65	6.93	11.81
44	12.8	1.43	4.55	11.82	13.76	23.30	27.09	21.62	15.44	7.10	0.80	5.53	8.98

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Table III-3. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
45	2.5	3.35	5.43	12.08	18.43	23.95	27.90	22.24	16.39	6.93	2.55	6.92	11.87
46	13.5	1.24	4.67	11.76	13.99	23.10	27.59	21.47	19.39	7.24	0.81	5.48	9.08
47*	2.3	3.98	5.45	12.14	18.65	23.94	27.96	21.51	16.05	7.10	0.43	7.19	12.19
48	18.3	1.64	4.54	11.68	13.58	23.33	26.99	21.44	15.41	7.24	0.82	5.39	8.90
49	2.2	1.30	5.45	11.63	15.33	23.41	27.61	20.94	14.87	6.57	0.75	6.89	11.26
50	13.8	1.33	4.58	11.42	13.64	23.10	26.75	-	15.33	7.28	0.76	5.19	9.21
51	2.5	0.74	5.37	11.43	13.53	23.44	27.48	21.70	14.79	6.69	0.67	6.79	12.01
52	10.9	1.87	3.89	10.91	12.72	19.52	25.33	21.45	15.37	8.11	2.08	4.71	9.11
53	2.7	0.31	4.27	11.17	15.48	25.07	27.70	21.65	14.61	7.37	0.79	5.64	12.07
54	12.9	2.03	3.48	10.99	13.33	23.11	25.94	21.91	15.71	7.39	1.44	4.74	8.52
55	2.8	1.38	5.03	10.77	14.10	24.51	27.66	21.32	15.01	6.95	0.24	5.67	10.89
56	7.2	1.51	3.70	10.60	13.09	23.57	27.16	21.22	15.46	6.87	1.42	4.96	9.78
57	13.5	1.71	3.47	9.83	13.09	20.71	25.23	22.07	16.30	6.89	1.93	4.40	8.53
58	31.4	2.96	3.12	10.42	12.46	20.58	25.12	22.87	17.22	9.66	-	4.46	7.07
59	2.7	0.17	4.52	11.20	13.76	25.29	27.74	20.48	14.53	6.95	-	5.48	12.48
60	2.6	0.39	5.03	12.19	18.58	24.91	27.24	19.66	15.39	5.03	-	5.31	12.08
61	5.4	0.19	5.61	12.18	16.49	25.09	27.76	19.58	15.01	4.68	-	5.30	12.72
62	6.9	0.65	6.76	12.68	18.34	25.35	27.89	20.10	13.84	5.28	-	6.26	13.54
63	7.9	0.93	3.66	9.47	14.98	25.59	27.45	21.31	15.98	6.53	-	4.71	11.76
64	9.3	0.42	4.80	10.86	15.13	26.00	27.63	20.03	15.20	6.03	-	5.07	11.70
65	3.1	-	5.55	12.07	15.86	26.83	28.82	21.37	14.67	6.32	-	5.37	12.88
66	2.7	-	7.83	12.93	17.17	27.23	28.88	22.63	15.61	6.21	-	7.50	13.35
67	6.8	0.55	4.58	7.50	-	25.75	27.11	21.00	15.19	5.02	-	4.47	12.14
68	5.9	0.49	5.56	9.29	-	25.97	27.83	21.11	14.09	5.09	-	5.89	12.72
70	16.8	1.46	3.96	9.96	11.36	21.21	26.08	21.83	16.08	7.62	-	4.79	9.32
71	15.4	1.24	4.27	10.35	13.87	23.76	27.66	22.15	15.37	6.79	1.38	6.28	9.82
72	2.3	1.38	7.56	13.02	17.70	24.66	28.14	21.73	14.45	6.77	1.40	7.11	14.00
73	2.7	0.93	6.67	12.68	19.00	25.20	28.14	21.66	14.15	6.72	1.35	6.88	12.34
74	2.7	3.03	8.07	12.95	21.12	24.64	28.98	22.01	13.99	7.15	1.77	7.70	14.01
75	2.3	1.13	8.64	13.18	21.01	24.85	29.00	23.58	14.78	6.72	2.12	8.48	13.76
76	2.6	1.71	10.00	13.20	21.03	25.95	28.71	22.20	14.08	6.76	2.14	8.93	13.74
77	2.7	0.87	9.74	12.91	20.44	25.87	29.06	23.56	14.25	5.90	1.38	8.73	14.45
78	2.5	0.32	9.00	12.09	20.44	24.71	29.37	21.40	13.02	4.37	-	7.77	14.60
79	2.4	0.01	10.52	11.23	21.64	23.50	27.89	20.84	11.63	3.95	-	9.28	13.90
80	2.3	0.42	10.04	11.54	21.11	22.73	26.51	20.64	11.13	4.64	-	9.39	13.66

* Station 47 relocated in April 1985

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Table III-3. Continued

Station	Average Station Depth	Temperature 1987 May	Jun	Jul	Aug	Oct	Dec	1988 Jan	Mar	Apr	May	Jun	Aug
01	2.3	18.30	21.07	28.04	25.01	15.81	8.28	2.42	4.71	10.53	18.00	20.42	28.54
02	6.1	17.08	20.40	27.65	25.36	16.03	7.76	2.28	4.81	8.96	16.89	20.69	26.92
03	13.6	13.06	18.51	23.30	25.89	16.80	8.01	2.12	3.58	6.82	12.96	15.83	24.57
04	28.3	12.66	16.94	23.54	26.25	16.64	8.88	-	3.79	6.24	12.45	15.84	23.10
05	3.0	16.33	22.00	26.96	24.28	16.40	7.51	2.27	4.53	13.03	19.51	22.38	29.33
06	2.9	17.79	20.62	28.87	25.76	16.37	7.69	1.80	5.66	11.03	18.22	20.67	27.36
07	5.7	16.84	19.71	27.81	25.48	16.64	7.78	1.88	6.40	9.68	18.10	21.07	26.39
08	12.4	13.05	18.56	23.49	25.89	15.99	8.22	1.72	3.51	7.33	14.00	16.34	26.39
09	2.8	17.61	21.81	28.32	24.61	15.99	7.42	3.01	5.68	10.80	19.19	20.75	28.47
10	6.5	17.26	21.18	28.00	25.69	16.52	7.52	3.03	4.47	9.72	18.79	21.36	26.64
11	12.2	13.05	18.11	23.43	25.90	16.96	7.60	1.70	3.51	7.64	14.72	16.37	26.38
12	2.1	17.11	19.88	28.49	24.60	15.80	8.25	1.84	5.71	12.60	19.33	21.78	27.13
13	5.8	16.68	19.23	27.84	25.32	16.26	7.30	1.68	4.82	9.21	18.80	20.59	26.50
14	11.7	12.92	17.07	23.07	25.83	16.81	7.61	1.74	3.52	7.36	15.13	17.22	26.23
15	2.2	17.02	22.29	28.81	25.01	15.67	7.49	1.95	6.13	14.80	20.18	22.98	27.48
16	13.7	12.71	15.83	23.36	26.60	16.65	8.50	1.71	3.32	8.70	15.57	16.01	26.02
17	26.7	12.65	15.68	22.18	26.57	16.87	8.81	1.72	3.40	6.55	12.65	14.94	23.26
18	2.7	17.46	21.75	24.88	23.80	15.82	7.09	-	-	11.17	18.02	22.52	27.48
19	3.1	17.72	22.29	28.24	25.58	15.64	6.92	-	-	-	18.04	23.18	-
20	10.6	13.51	15.83	23.78	25.56	16.52	8.04	-	-	8.60	16.50	15.39	26.58
21	28.8	12.34	15.54	21.96	26.78	16.97	8.99	-	-	6.43	12.78	14.39	23.11
22	3.9	17.96	19.86	27.02	25.68	15.72	6.99	-	-	13.10	19.29	19.99	27.37
23	5.5	17.43	20.56	27.03	24.91	15.17	7.17	-	-	12.36	18.73	19.59	27.33
24	6.5	14.39	17.75	24.99	25.18	14.60	8.20	-	-	11.30	16.65	18.86	26.86
25	7.0	17.46	20.91	26.43	29.82	14.69	8.35	-	-	8.03	14.54	15.63	-
26	4.0	17.22	21.79	28.00	23.86	13.79	5.84	-	-	12.49	8.40	19.84	27.56
27	5.8	18.44	22.83	29.04	25.01	13.87	5.13	-	-	12.66	-	21.78	-
28	3.6	18.60	22.35	28.69	23.86	13.38	5.02	-	-	11.61	-	21.21	28.43
29	5.7	18.60	23.69	28.90	24.76	13.38	5.10	-	-	11.66	-	21.99	28.23
36	2.5	19.60	25.09	27.43	24.66	16.17	6.44	-	9.13	16.87	-	20.58	29.54
38	5.7	18.73	24.78	27.91	25.13	15.46	6.63	-	7.84	13.62	-	20.54	28.87
39	2.2	17.99	22.83	27.18	25.14	15.62	6.87	0.71	8.48	12.79	20.15	20.71	28.24
40	8.0	17.60	22.56	27.79	25.28	15.41	7.07	1.14	6.38	12.50	19.87	20.71	28.29
43	2.5	17.46	23.21	27.27	25.42	16.04	7.72	1.39	8.12	12.01	20.15	20.33	28.48
44	12.8	14.43	20.40	26.62	25.52	16.11	7.79	1.82	5.61	11.08	18.20	18.79	27.18

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Table III-3. Continued

Station	Average Station Depth	Temperature 1987 May	Jun	Jul	Aug	Oct	Dec	1988 Jan	Mar	Apr	May	Jun	Aug
45	2.5	18.09	22.86	27.49	25.85	16.27	7.30	1.40	7.77	12.89	19.92	20.82	28.98
46	13.5	14.53	20.84	26.51	25.60	16.16	7.67	1.81	5.46	11.48	18.33	18.76	27.42
47*	2.3	18.99	22.84	27.23	25.80	16.13	6.89	1.20	8.51	13.06	20.00	20.84	29.92
48	18.3	14.23	20.19	26.58	25.60	16.12	7.71	1.85	5.39	11.34	18.57	18.76	27.09
49	2.2	15.51	22.42	26.61	27.98	15.78	7.36	1.00	8.97	14.11	19.87	19.46	27.71
50	13.8	14.45	19.98	26.32	25.48	16.24	7.77	1.74	5.52	11.29	18.10	18.91	26.85
51	2.5	17.92	23.17	27.14	25.03	16.30	6.95	0.57	7.18	12.66	19.22	19.46	28.00
52	10.9	13.76	18.93	24.71	26.02	16.78	7.96	1.59	4.01	8.20	16.05	18.55	25.78
53	2.7	16.32	23.15	27.01	25.58	16.89	7.47	1.27	6.28	10.67	17.77	19.90	27.78
54	12.9	13.06	20.37	26.57	25.58	16.76	8.01	1.72	4.95	8.15	14.15	19.33	25.81
55	2.8	16.56	21.82	26.54	25.26	17.70	7.30	2.63	5.81	10.53	17.34	19.04	27.69
56	7.2	15.58	20.86	26.23	25.50	16.80	7.71	2.13	4.96	9.56	16.21	19.39	26.32
57	13.5	12.90	19.17	25.33	25.97	16.77	7.97	1.77	4.65	7.88	13.66	18.88	25.57
58	31.4	12.61	18.39	24.71	26.25	16.25	7.82	-	4.73	6.56	13.85	18.73	24.00
59	2.7	16.62	23.02	26.51	25.75	16.61	6.87	-	6.26	14.46	-	18.45	28.82
60	2.6	17.66	24.60	26.28	25.48	15.87	6.54	-	5.96	14.85	19.75	18.88	-
61	5.4	19.90	23.86	26.98	24.94	14.89	6.24	-	6.21	15.23	19.77	19.18	28.58
62	6.9	19.73	24.75	27.42	25.01	14.33	6.78	-	-	15.64	-	20.22	28.65
63	7.9	17.14	23.39	27.18	24.55	13.37	6.18	-	-	11.12	19.01	23.50	27.33
64	9.3	18.05	23.50	27.50	25.71	13.65	6.21	-	-	12.58	19.25	23.40	27.74
65	3.1	18.37	24.35	27.63	25.47	13.38	6.30	-	-	12.99	-	23.71	28.12
66	2.7	19.16	24.81	27.93	-	13.95	6.60	-	-	13.86	-	24.66	28.46
67	6.8	17.78	22.23	28.90	25.33	14.83	6.12	-	-	12.87	19.37	17.81	-
68	5.9	18.87	23.75	29.31	25.68	14.08	6.11	-	-	13.46	19.89	22.46	-
70	16.8	14.78	18.63	25.70	25.72	15.68	7.95	-	4.18	11.35	17.61	17.96	28.20
71	15.4	14.98	20.80	27.15	25.97	15.07	7.69	2.05	5.10	11.91	17.73	20.92	27.56
72	2.3	17.92	25.48	26.50	25.58	14.00	6.52	1.97	6.82	12.48	21.02	19.92	28.79
73	2.7	17.71	25.07	27.25	25.90	14.18	7.43	1.87	6.87	13.01	21.12	20.25	29.14
74	2.7	18.82	26.35	27.37	27.53	14.03	7.78	2.08	8.15	14.17	21.81	21.97	29.85
75	2.3	19.52	28.48	28.97	26.67	14.41	7.46	2.01	9.08	13.48	22.12	23.33	30.95
76	2.6	20.05	26.84	27.73	26.66	14.06	7.33	2.44	9.33	14.34	22.44	21.50	30.82
77	2.7	20.64	29.20	26.95	26.39	13.92	6.45	2.83	10.76	13.74	22.96	21.86	31.34
78	2.5	20.35	27.11	26.95	25.49	13.24	5.57	-	8.43	13.15	21.64	21.37	29.99
79	2.4	19.75	27.77	25.64	25.48	12.22	5.44	-	9.18	10.53	20.09	19.78	29.54
80	2.3	18.44	26.38	23.78	24.27	11.68	5.24	-	8.38	10.20	18.26	18.59	28.88

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Table III-4. Bottom water dissolved oxygen concentration (mg/l) measured at long-term benthic monitoring stations in Chesapeake Bay, July 1984 to August 1988. Dashes indicate missing values.

Station	Average Station Depth	1984 Jul	1984 Aug	1984 Sep	1984 Oct/Nov	1984 Dec	1985 Jan/Feb	1985 Mar	1985 Apr	1985 May	1985 Jun	1985 Jul	1985 Aug	1985 Sep	1985 Nov	1985 Dec
01	2.3	6.5	8.0	9.0	6.5	11.5	12.5	10.9	11.6	7.1	6.9	5.5	2.4	6.7	9.3	9.7
02	6.1	7.6	6.3	7.4	7.6	11.2	12.3	10.9	11.3	6.9	6.9	3.4	2.5	6.7	8.8	9.1
03	13.6	0.3	0.0	6.9	3.1	9.2	12.0	9.9	9.0	4.3	0.9	1.1	1.3	4.2	6.6	8.6
04	28.3	0.1	0.0	-	-	7.1	11.6	8.8	4.4	1.7	5.2	1.1	0.1	2.4	5.5	8.5
05	3.0	9.0	9.8	7.3	6.8	10.8	12.4	11.3	11.6	9.9	8.2	6.3	7.2	7.1	8.6	11.9
06	2.9	6.7	6.8	8.7	6.7	11.3	12.5	11.1	11.5	7.2	7.2	3.1	2.3	7.1	9.3	8.9
07	5.7	6.1	6.2	8.0	7.1	11.0	12.5	11.0	11.8	8.1	5.9	5.1	2.8	6.5	9.2	9.4
08	12.4	-	-	5.6	4.2	10.6	12.4	10.2	6.6	5.1	0.9	1.0	1.2	5.6	8.5	8.7
09	2.8	7.1	10.4	11.4	6.9	11.6	12.7	11.1	11.3	8.0	8.0	5.1	2.1	7.1	9.5	10.0
10	6.5	5.8	4.6	10.4	6.9	11.1	12.8	11.1	12.0	6.4	7.3	5.8	2.2	6.3	9.7	10.7
11	12.2	-	-	5.3	3.3	10.8	12.4	10.2	6.2	5.1	0.9	1.0	1.1	5.7	8.2	8.6
12	2.1	8.2	11.6	14.0	7.1	11.6	13.1	11.3	9.8	8.6	7.4	8.7	3.5	7.8	12.3	9.8
13	5.8	7.3	0.0	9.9	6.9	10.9	12.7	11.0	8.8	8.7	6.1	4.9	1.6	5.2	10.1	8.9
14	11.7	0.1	0.0	5.9	4.8	10.6	12.2	10.2	6.7	5.6	1.1	0.7	1.0	5.0	7.6	8.7
15	2.2	8.2	11.9	7.8	8.0	11.5	13.5	11.4	11.7	9.0	7.7	5.6	6.2	7.4	10.1	11.6
16	13.7	5.6	0.7	5.8	2.9	8.4	12.0	9.6	5.6	6.4	1.0	1.5	2.0	6.2	7.5	8.2
17	26.7	0.1	0.0	-	-	7.2	11.4	8.4	3.5	0.7	0.6	0.9	0.1	2.2	5.4	7.4
18	2.7	8.0	5.6	12.0	6.4	10.7	13.2	11.3	11.2	8.8	7.6	4.9	6.8	8.1	9.9	10.8
19	3.1	8.9	9.2	10.8	8.5	12.4	13.4	12.5	12.2	7.6	7.3	5.2	3.3	7.0	9.6	11.4
20	10.6	0.1	0.0	2.6	3.4	8.5	12.5	10.0	4.8	4.7	1.6	1.0	4.7	4.9	8.8	8.4
21	28.8	0.1	0.0	0.5	-	7.2	11.8	8.4	3.8	0.3	0.4	0.4	0.1	1.4	5.4	7.8
22	3.9	5.0	0.1	5.8	5.5	9.0	-	13.1	8.4	10.6	9.2	3.7	2.4	4.7	8.3	13.0
23	5.5	4.7	1.0	7.6	5.2	9.6	-	11.6	6.8	7.9	3.0	4.2	2.4	6.3	8.4	9.5
24	6.5	1.5	4.4	3.2	6.5	8.6	-	10.8	5.6	7.4	1.5	5.6	5.3	6.1	7.3	8.7
25	7.0	4.1	24.0	10.2	4.4	9.3	-	10.1	10.8	2.1	4.6	2.5	6.3	2.2	9.1	8.2
26	4.0	9.1	7.4	7.3	7.9	11.2	-	11.5	8.9	7.1	6.2	7.5	6.0	6.8	9.1	11.5
27	5.8	8.5	6.7	7.6	8.2	12.4	-	12.2	10.2	7.3	6.7	6.1	5.7	6.1	12.0	13.7
28	3.6	9.4	8.7	10.4	8.9	13.0	-	12.8	12.0	7.9	7.8	8.0	6.8	6.8	12.3	13.4
29	5.7	8.2	7.0	7.3	7.9	12.2	-	12.0	9.9	6.8	6.8	6.1	5.9	6.6	9.0	12.0
36	2.5	6.3	7.2	5.7	5.9	13.3	-	10.7	9.6	6.7	6.5	6.1	8.4	5.7	10.6	13.7
38	5.7	12.4	8.4	6.5	6.9	11.3	-	10.9	9.9	7.1	8.4	5.6	4.5	5.0	9.5	11.9
39	2.2	7.0	7.7	5.6	6.8	11.5	-	10.1	8.2	6.0	5.8	8.7	5.7	6.6	8.2	11.6
40	8.0	6.7	7.6	5.9	6.4	11.5	-	10.4	8.2	6.1	5.8	5.0	5.3	5.7	8.1	11.1
43	2.5	5.7	6.0	4.4	6.0	10.7	12.9	12.0	9.3	6.3	5.7	7.1	5.7	4.9	7.3	10.8
44	12.8	5.9	-	4.0	4.5	9.0	12.2	10.2	5.1	1.0	1.6	1.8	2.5	4.5	4.9	9.5

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Table III-4. Continued

Station	Average Station Depth	1984 Jul	1984 Aug	1984 Sep	1984 Oct/Nov	1984 Dec	1985 Jan/Feb	1985 Mar	1985 Apr	1985 May	1985 Jun	1985 Jul	1985 Aug	1985 Sep	1985 Nov	1985 Dec
45	2.5	5.4	6.1	4.4	6.4	10.8	12.8	12.4	11.7	6.8	4.8	7.2	5.6	5.1	7.4	10.7
46	13.5	0.5	-	4.2	4.5	9.4	12.3	10.3	6.2	1.2	0.9	1.5	3.2	4.8	4.9	9.7
47*	2.3	5.7	4.7	4.0	6.2	10.7	12.9	12.4	12.9	7.4	4.2	7.5	5.4	5.2	7.3	10.8
48	18.3	-	-	4.3	4.3	8.8	12.2	10.3	5.3	-	0.9	0.8	2.6	4.7	5.0	9.8
49	2.2	10.2	9.2	5.4	8.7	11.0	13.5	11.9	15.2	14.3	8.4	7.5	7.1	6.6	7.7	11.2
50	13.8	1.5	-	5.3	3.8	8.8	12.3	11.0	5.8	0.3	1.3	1.0	1.8	4.8	5.0	10.0
51	2.5	9.2	9.6	7.4	7.3	13.8	13.9	12.2	13.7	-	9.5	7.5	6.1	5.7	10.5	11.2
52	10.9	-	0.3	-	4.1	8.9	12.2	10.5	4.3	-	0.2	0.1	0.3	3.2	5.7	8.8
53	2.7	9.5	5.5	7.6	8.2	12.1	12.9	11.9	12.2	8.4	8.8	8.5	6.5	5.2	7.0	10.8
54	12.9	0.1	0.8	-	6.6	10.3	12.7	11.7	8.2	4.6	2.6	0.3	3.3	4.3	7.6	9.6
55	2.8	10.0	6.6	8.4	8.2	11.4	13.3	11.8	11.5	9.5	9.1	7.6	13.8	6.1	9.9	10.7
56	7.2	6.7	-	6.0	7.4	11.2	12.9	11.6	10.4	6.0	7.6	5.6	8.1	5.9	9.2	10.5
57	13.5	0.1	-	-	3.7	9.7	12.8	11.3	9.3	3.4	0.9	1.1	1.2	4.1	7.3	9.7
58	31.4	0.1	-	-	-	7.8	12.2	8.9	4.9	2.4	2.2	0.9	0.2	3.2	5.7	8.7
59	2.7	8.3	9.2	8.0	8.2	12.2	13.6	11.3	11.5	9.7	8.6	7.4	8.7	7.5	10.2	11.2
60	2.6	8.6	7.5	8.9	8.0	11.5	13.7	11.1	10.3	7.5	7.2	7.1	7.9	6.7	9.0	11.4
61	5.4	7.7	6.6	7.6	7.0	11.1	-	10.8	11.0	6.8	6.7	5.4	6.2	6.9	8.9	10.9
62	6.9	8.3	7.6	6.5	6.2	11.2	-	10.8	8.9	6.9	6.1	6.7	6.9	6.3	8.1	10.7
63	7.9	1.5	0.2	3.3	7.4	11.2	-	10.8	11.8	8.1	7.4	5.2	6.4	6.9	10.1	11.1
64	9.3	5.0	0.1	5.0	6.7	11.1	-	10.4	11.5	5.9	4.1	5.6	5.1	6.0	8.8	10.8
65	3.1	7.2	6.3	6.8	5.8	11.5	-	9.8	9.5	5.9	-	-	-	-	8.8	10.8
66	2.7	7.4	8.4	9.9	7.4	12.1	-	10.9	8.7	7.0	-	-	-	-	7.6	11.2
67	6.8	7.8	-	7.7	7.0	-	-	10.9	7.1	3.1	5.5	2.6	4.6	6.2	7.9	10.6
68	5.9	7.2	1.0	6.5	6.6	11.3	-	11.8	12.4	2.6	4.2	5.1	5.2	5.4	7.9	10.0
70	16.8	3.1	-	-	6.8	11.2	12.4	11.0	8.9	5.0	2.5	0.9	2.7	6.0	9.0	10.7
71	15.4	5.2	-	-	6.3	10.6	12.1	11.1	9.7	4.6	1.2	0.6	2.3	5.4	9.8	10.5
72	2.3	9.6	5.3	-	6.4	11.6	13.2	13.1	9.3	5.4	7.8	4.3	5.4	5.9	9.4	10.5
73	2.7	5.3	4.4	-	6.4	12.1	13.6	12.1	11.5	5.5	4.9	4.7	4.6	5.9	8.9	10.2
74	2.7	6.0	5.8	-	5.9	-	13.0	10.8	10.3	5.2	6.2	4.8	5.5	5.9	8.6	10.4
75	2.3	5.6	6.2	-	6.9	14.1	12.6	8.6	11.2	4.9	9.0	4.8	5.9	5.8	9.5	10.3
76	2.6	5.8	7.8	7.2	7.1	13.8	12.7	10.7	8.4	4.6	5.9	7.4	5.8	5.7	9.0	10.7
77	2.7	5.6	7.4	-	8.1	15.7	12.6	7.9	9.7	4.6	6.5	4.6	6.3	5.9	9.3	10.6
78	2.5	7.0	9.0	9.3	7.5	14.2	-	7.8	8.1	5.7	5.5	5.2	6.2	5.4	10.5	11.0
79	2.4	7.4	10.5	11.9	9.0	11.1	-	10.1	11.6	6.8	9.2	9.1	10.2	5.9	10.3	11.3
80	2.3	6.2	7.4	-	5.5	10.0	-	10.2	8.5	6.3	8.0	8.6	5.0	5.7	10.3	11.4

* Station 47 relocated in April 1985

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Table III-4. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
01	2.3	13.0	11.7	11.5	10.8	5.8	6.0	7.8	8.5	12.5	12.8	12.7	11.8
02	6.1	13.0	11.5	11.2	11.1	4.9	5.9	6.0	8.4	11.5	12.1	12.5	11.5
03	13.6	12.9	10.9	5.9	4.4	0.8	0.1	1.7	7.7	8.9	13.0	10.7	7.6
04	28.3	10.9	9.2	6.2	3.9	1.6	0.0	1.7	4.2	7.9	-	10.1	7.7
05	3.0	12.5	12.2	10.8	9.4	8.1	3.4	6.5	7.7	12.2	-	12.4	10.2
06	2.9	13.0	11.5	11.6	10.6	7.6	5.9	6.9	8.7	12.7	13.1	12.5	11.3
07	5.7	13.0	11.1	10.9	11.1	4.6	5.6	5.7	8.4	12.0	12.4	12.6	11.6
08	12.4	12.0	10.3	6.0	4.5	0.7	0.1	2.0	8.2	9.0	12.3	10.6	8.7
09	2.8	13.2	11.7	11.6	10.4	6.0	6.4	9.0	9.0	12.9	13.1	12.8	12.0
10	6.5	13.2	11.5	10.9	10.7	3.2	6.9	6.2	9.0	12.0	16.2	12.4	11.9
11	12.2	12.2	10.0	6.2	4.4	0.6	0.1	1.9	8.4	8.7	12.2	10.8	8.0
12	2.1	13.7	11.7	11.3	11.7	2.9	6.8	9.0	8.9	11.9	15.2	13.2	12.3
13	5.8	13.2	11.7	11.3	9.1	2.2	5.3	6.4	8.7	11.3	14.5	12.7	11.5
14	11.7	12.6	10.2	5.5	4.1	1.0	0.2	1.3	8.3	8.9	13.9	10.9	9.2
15	2.2	13.5	11.7	11.8	9.9	8.6	6.3	7.0	8.5	10.0	13.8	13.1	11.3
16	13.7	10.9	9.7	6.1	3.5	0.8	0.1	2.8	4.0	7.4	12.4	11.1	7.6
17	26.7	10.6	7.9	5.5	5.2	0.9	0.0	1.1	4.1	7.5	12.1	9.7	7.2
18	2.7	13.2	11.8	12.3	9.6	8.3	6.0	6.1	7.8	11.0	-	12.8	12.0
19	3.1	13.5	11.8	12.3	9.9	2.6	6.4	7.8	8.4	8.8	-	12.6	11.0
20	10.6	12.5	10.6	5.8	3.5	1.8	0.1	2.2	6.3	7.5	-	9.8	6.8
21	28.8	10.5	7.7	5.6	2.7	0.5	0.0	0.7	3.8	7.7	-	9.7	6.7
22	3.9	12.2	11.1	11.8	2.8	5.8	4.5	2.5	4.3	8.0	-	9.8	7.6
23	5.5	12.5	11.4	8.6	8.1	5.5	1.6	4.3	5.4	9.2	-	9.7	7.5
24	6.5	12.7	11.8	6.0	1.9	4.9	0.1	3.4	5.1	7.6	-	9.4	4.9
25	7.0	11.9	12.0	6.6	-	2.7	0.1	6.8	8.9	7.6	-	9.1	5.8
26	4.0	13.8	12.6	9.7	9.3	7.1	7.3	7.6	7.6	11.2	-	11.6	11.8
27	5.8	-	13.4	11.9	9.7	7.5	5.8	8.3	8.1	12.7	-	12.7	12.6
28	3.6	-	13.2	12.0	10.7	7.6	8.0	8.9	8.8	13.3	-	13.1	12.6
29	5.7	-	13.0	10.1	9.7	7.3	7.1	8.1	8.8	12.2	-	13.4	12.1
36	2.5	13.6	11.6	9.6	7.9	6.1	5.9	6.4	7.7	12.2	-	10.2	10.8
38	5.7	13.1	12.1	9.4	8.4	7.1	5.6	6.8	8.2	11.1	-	10.5	10.5
39	2.2	12.7	11.8	8.8	7.4	6.9	5.0	7.4	8.2	10.8	14.2	9.6	9.2
40	8.0	13.3	12.0	7.9	7.4	5.7	4.9	7.3	8.0	10.5	14.3	8.7	8.0
43	2.5	12.6	13.2	7.7	11.8	5.3	4.7	7.2	7.3	10.5	13.0	10.0	8.5
44	12.8	11.7	11.5	7.2	6.1	2.9	0.5	6.6	6.8	10.0	12.8	10.4	4.9

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Table III-4. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
45	2.5	12.7	12.6	8.1	11.8	5.0	4.5	7.3	7.2	10.7	13.2	9.7	8.2
46	13.5	11.9	11.9	7.4	6.9	2.5	1.8	6.6	6.9	9.6	13.2	10.3	4.9
47*	2.3	12.7	12.6	7.9	11.5	5.6	4.2	6.8	7.3	10.8	13.5	10.2	7.8
48	18.3	11.6	11.3	7.5	5.9	3.4	0.3	7.1	6.9	9.5	13.1	9.9	4.8
49	2.2	12.6	14.0	9.1	11.8	8.5	5.2	8.9	7.4	13.9	14.2	9.7	7.1
50	13.8	12.0	11.4	7.5	6.2	2.6	0.2	-	7.0	9.6	13.0	9.3	5.3
51	2.5	12.7	13.1	10.6	8.7	6.7	6.0	5.8	7.9	13.7	15.0	10.7	11.5
52	10.9	11.8	10.3	9.1	5.6	0.5	0.1	6.1	6.9	9.2	13.0	9.0	8.7
53	2.7	12.8	12.3	10.1	9.0	9.5	5.8	8.4	8.3	12.0	14.3	11.0	12.3
54	12.9	12.0	11.6	10.1	7.5	4.7	0.1	6.0	7.4	10.3	13.1	10.3	8.6
55	2.8	12.9	12.1	10.6	9.3	9.2	7.0	7.8	8.3	11.3	13.5	13.6	12.2
56	7.2	12.6	12.0	9.6	8.6	7.9	4.9	6.5	8.0	10.8	12.7	13.4	11.3
57	13.5	12.0	11.6	4.6	8.2	5.5	0.1	6.2	5.5	10.7	12.2	11.7	8.8
58	31.4	10.9	9.3	5.1	6.5	1.5	0.0	2.6	3.4	7.7	-	10.9	7.0
59	2.7	13.0	12.1	10.1	9.6	8.6	7.3	8.3	8.6	11.1	-	12.7	11.6
60	2.6	13.2	11.7	9.6	9.2	7.8	5.7	8.3	8.4	11.7	-	12.3	12.1
61	5.4	12.7	11.1	9.6	8.3	6.0	5.2	7.6	8.0	11.4	-	12.0	11.8
62	6.9	13.0	11.2	9.3	8.6	6.8	4.8	7.1	8.0	10.5	-	11.2	9.3
63	7.9	12.9	12.0	5.7	8.9	6.8	5.3	6.8	7.0	10.9	-	11.5	11.0
64	9.3	13.4	12.1	7.9	9.9	7.6	5.4	6.9	8.1	10.8	-	11.2	9.4
65	3.1	-	12.4	9.7	11.1	7.6	6.6	7.0	7.8	10.8	-	11.3	9.3
66	2.7	-	11.6	8.6	10.5	8.5	5.9	8.9	10.7	10.8	-	11.7	9.9
67	6.8	12.6	12.2	5.4	-	6.5	3.4	6.6	6.5	12.3	-	8.9	7.7
68	5.9	13.3	12.6	6.0	-	5.5	3.3	6.4	7.7	11.5	-	10.9	7.9
70	16.8	12.6	11.9	5.6	5.3	1.8	0.4	5.4	6.7	9.3	-	9.9	9.4
71	15.4	12.4	10.9	6.1	6.4	2.2	2.2	5.5	7.3	10.8	12.8	10.9	9.4
72	2.3	12.8	11.0	10.2	9.4	4.5	7.3	6.2	7.3	10.6	16.5	10.1	8.7
73	2.7	12.6	10.8	9.2	8.1	6.6	5.0	6.7	7.2	10.8	15.2	9.9	7.9
74	2.7	12.8	9.6	8.8	8.9	5.2	6.8	6.3	7.1	10.8	16.0	9.5	7.6
75	2.3	12.4	9.3	9.0	8.7	4.4	6.5	8.0	7.1	10.8	16.0	9.6	7.5
76	2.6	12.7	9.2	9.0	9.1	6.2	6.6	6.3	7.0	10.7	15.5	9.4	7.2
77	2.7	12.5	9.3	9.0	10.0	5.6	6.5	6.7	6.9	10.6	14.3	7.8	7.7
78	2.5	12.7	10.1	9.9	10.8	6.0	4.6	5.9	7.0	11.0	-	8.2	7.4
79	2.4	12.2	9.8	9.4	12.1	6.7	6.8	7.4	9.1	10.9	-	8.9	8.3
80	2.3	12.5	9.8	9.7	9.1	6.0	6.0	8.5	7.8	11.0	-	9.3	8.5

* Station 47 relocated in April 1985

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Table III-4. Continued

Station	Average Station Depth	DO 1987 May	Jun	Jul	Aug	Oct	Dec	1988 Jan	Mar	Apr	May	Jun	Aug
01	2.3	10.9	5.3	6.3	5.4	9.5	11.2	12.9	13.4	12.5	10.0	9.8	7.1
02	6.1	10.9	4.3	6.5	6.2	7.2	11.3	13.0	13.4	10.5	9.8	9.2	4.4
03	13.6	2.5	0.7	0.1	2.2	7.2	9.4	12.3	10.2	9.2	3.3	0.2	0.3
04	28.3	1.4	0.1	0.1	0.6	7.3	8.6	-	10.2	8.4	1.5	0.1	0.1
05	3.0	9.6	8.6	6.3	7.0	10.5	11.3	13.5	13.1	11.3	10.3	9.1	8.4
06	2.9	11.3	4.2	5.8	5.2	9.4	11.2	13.6	12.8	12.2	9.3	8.9	4.1
07	5.7	10.4	2.5	6.5	6.4	6.9	11.3	13.5	12.8	11.3	9.4	9.8	1.8
08	12.4	2.6	0.8	0.2	1.1	5.8	9.1	11.2	10.2	9.6	5.9	1.1	1.9
09	2.8	11.0	6.0	6.9	5.1	8.4	11.4	13.5	13.4	11.6	9.5	10.2	3.3
10	6.5	10.7	5.1	5.7	4.6	6.4	11.4	13.3	13.2	12.2	9.8	10.0	2.4
11	12.2	2.6	0.4	0.1	0.8	5.5	10.3	11.6	10.5	9.5	6.7	1.1	1.7
12	2.1	10.2	2.6	8.2	7.5	8.0	11.8	13.8	13.8	12.7	10.4	9.8	6.7
13	5.8	10.3	1.9	5.8	5.0	5.8	10.9	13.5	13.6	11.7	10.2	9.5	4.1
14	11.7	2.4	0.1	0.2	0.7	6.1	9.8	11.3	10.3	8.6	6.7	2.4	3.3
15	2.2	9.3	8.8	6.9	9.0	7.7	12.2	13.7	13.6	10.5	8.9	9.1	3.3
16	13.7	0.8	0.1	0.2	0.1	7.2	8.4	11.2	10.1	8.9	7.3	0.4	3.3
17	26.7	0.7	0.1	0.1	0.1	6.7	8.3	10.9	9.5	7.2	2.3	0.1	0.1
18	2.7	8.3	7.3	6.1	7.1	9.3	11.1	-	-	12.0	10.0	7.3	6.8
19	3.1	10.6	7.4	5.5	6.7	11.5	12.3	-	-	-	9.5	8.7	-
20	10.6	1.7	0.1	0.3	2.9	7.4	9.1	-	-	7.5	7.7	0.2	4.4
21	28.8	0.1	0.1	0.1	0.0	7.2	8.2	-	-	6.3	2.1	0.1	0.1
22	3.9	9.0	3.8	2.1	1.3	7.8	12.2	-	-	9.8	7.9	7.2	1.7
23	5.5	6.3	2.2	1.5	4.0	8.4	8.4	-	-	9.8	7.0	3.4	5.0
24	6.5	2.4	1.7	1.0	4.1	7.8	8.2	-	-	10.2	6.3	5.2	3.7
25	7.0	9.2	3.3	0.8	0.2	8.4	7.5	-	-	7.1	2.4	0.2	-
26	4.0	8.8	5.9	5.4	6.8	9.1	11.3	-	-	10.2	8.2	7.8	5.7
27	5.8	8.5	6.3	5.7	6.0	9.2	11.6	-	-	10.2	-	7.9	-
28	3.6	9.0	10.0	7.1	7.0	9.3	12.8	-	-	10.5	-	8.2	9.6
29	5.7	9.0	5.7	5.4	6.0	10.8	11.8	-	-	10.2	-	6.7	5.6
36	2.5	9.1	6.3	7.6	6.1	8.8	11.5	-	11.9	9.0	-	9.0	5.6
38	5.7	8.3	6.1	5.6	6.0	9.4	10.1	-	14.0	9.9	-	7.4	5.9
39	2.2	8.0	5.1	5.9	5.7	9.3	10.2	12.8	13.3	9.2	7.2	7.3	5.8
40	8.0	7.4	7.2	5.7	5.2	8.6	9.5	12.0	11.2	9.1	7.4	7.2	5.3
43	2.5	7.3	5.1	4.3	4.6	8.5	9.7	12.9	13.4	8.7	7.2	6.9	4.4
44	12.8	1.9	1.5	3.8	4.1	5.7	7.9	11.0	9.7	7.8	5.8	2.2	2.0

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Table III-4. Continued

Station	Average Station Depth	DO 1987 May	Jun	Jul	Aug	Oct	Dec	1988 Jan	Mar	Apr	May	Jun	Aug
45	2.5	6.3	4.6	4.3	4.4	8.5	10.5	12.7	13.3	8.2	7.0	6.5	4.3
46	13.5	2.1	1.9	3.1	3.9	7.4	8.4	11.0	9.7	8.1	5.8	2.3	5.6
47*	2.3	6.2	4.9	4.1	4.5	8.2	12.6	13.1	13.5	8.3	7.2	6.2	4.9
48	18.3	2.1	1.1	3.2	3.9	5.9	8.2	10.9	9.5	8.0	6.4	2.3	1.9
49	2.2	3.1	6.2	4.1	5.7	9.5	13.7	13.7	12.4	9.2	10.7	7.9	5.2
50	13.8	2.5	0.9	3.1	3.6	5.7	8.5	11.2	9.9	8.0	5.8	2.8	1.4
51	2.5	10.0	7.3	8.6	4.8	11.7	12.2	13.5	13.7	12.8	8.9	5.8	5.7
52	10.9	4.3	0.1	1.2	1.0	6.4	7.6	12.0	11.2	8.4	3.8	1.1	0.2
53	2.7	12.2	7.2	7.8	6.9	9.9	11.0	12.8	13.5	12.8	10.9	8.9	6.1
54	12.9	3.6	0.3	5.4	5.6	9.6	8.9	12.8	11.9	10.9	5.0	5.6	0.4
55	2.8	11.7	6.0	6.5	7.0	11.2	11.8	13.5	13.1	12.6	10.7	8.8	7.3
56	7.2	7.9	3.7	6.0	5.0	10.1	10.6	13.3	12.3	12.2	9.7	7.1	2.6
57	13.5	2.0	0.1	2.3	1.1	8.8	9.6	11.6	10.9	10.7	4.1	3.2	0.6
58	31.4	3.1	0.0	2.5	1.2	6.8	9.1	-	9.9	8.5	3.2	2.3	0.2
59	2.7	10.3	7.8	7.5	8.0	10.1	11.5	-	12.4	10.3	-	8.6	7.0
60	2.6	10.1	6.8	6.7	7.8	10.7	11.2	-	12.0	9.9	8.0	9.2	-
61	5.4	7.2	6.6	6.0	6.1	9.5	11.2	-	11.8	11.3	7.6	7.4	6.0
62	6.9	7.5	5.5	5.8	5.9	7.9	10.2	-	-	8.2	-	7.2	5.4
63	7.9	7.3	7.3	6.0	6.3	9.1	11.3	-	-	10.3	9.3	7.3	5.0
64	9.3	7.9	7.0	5.0	5.6	8.5	11.0	-	-	9.7	8.0	-	5.7
65	3.1	8.3	7.2	5.8	6.0	8.7	11.0	-	-	9.9	-	6.2	6.0
66	2.7	8.8	7.2	5.4	-	8.2	11.0	-	-	9.8	-	6.5	6.8
67	6.8	6.9	6.1	6.6	5.8	7.5	11.4	-	-	9.3	7.4	0.7	-
68	5.9	6.9	7.5	6.1	5.8	9.9	11.1	-	-	9.6	7.0	6.5	-
70	16.8	3.8	0.4	2.1	3.0	8.1	9.6	-	11.2	11.9	8.5	2.4	4.5
71	15.4	2.2	1.0	3.7	3.4	8.7	9.7	13.1	12.0	10.5	5.1	5.3	2.9
72	2.3	5.4	7.3	4.8	5.2	9.3	10.2	13.0	11.2	8.6	6.7	4.9	2.7
73	2.7	4.6	4.5	3.9	5.1	8.8	10.0	13.2	10.8	7.5	6.4	3.8	3.4
74	2.7	5.9	4.9	4.4	5.4	8.6	10.0	12.9	10.5	8.5	6.8	5.8	3.4
75	2.3	6.3	8.0	5.1	4.4	8.2	10.0	12.4	9.9	8.9	6.4	6.1	4.1
76	2.6	6.1	5.7	4.8	4.3	7.9	9.8	12.2	9.8	8.4	6.0	5.3	4.9
77	2.7	6.2	11.4	5.0	4.7	7.8	10.0	11.9	9.9	8.1	5.9	5.9	3.8
78	2.5	7.5	8.7	6.8	4.9	8.1	10.8	-	10.6	9.4	7.4	7.2	4.4
79	2.4	10.3	10.1	5.7	11.2	12.3	10.9	-	10.8	9.3	7.0	11.1	6.3
80	2.3	7.6	9.3	4.5	6.9	8.9	10.0	-	10.9	9.5	5.4	7.2	7.0

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Table III-5. Bottom pH measured at long-term benthic monitoring stations in Chesapeake Bay, December 1984 to August 1988. Dashes indicate missing values.

Station	Average Station Depth	1984	1985									
		Dec	Jan/ Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
01	2.3	8.33	8.49	8.34	8.24	7.97	7.78	7.67	7.34	7.66	7.98	8.30
02	6.1	8.39	8.57	8.57	8.39	8.00	7.90	7.44	7.34	7.72	7.96	8.35
03	13.6	8.02	8.57	8.12	8.23	7.72	7.34	7.32	7.23	7.57	7.68	8.28
04	28.3	7.83	8.70	8.42	8.09	7.79	7.77	7.35	7.28	7.56	7.59	8.18
05	3.0	8.29	8.78	8.76	8.43	8.35	8.26	7.92	8.09	7.77	7.90	9.01
06	2.9	8.26	8.44	8.08	8.43	7.96	7.85	7.40	7.24	7.75	7.90	8.16
07	5.7	8.31	8.64	8.47	8.59	8.08	7.71	7.62	7.33	7.71	8.01	8.35
08	12.4	8.21	8.60	8.56	7.91	7.69	7.34	7.32	7.22	7.62	7.89	8.25
09	2.8	8.34	8.59	8.52	8.67	8.10	7.96	7.61	7.23	7.72	7.86	8.30
10	6.5	8.20	8.61	8.53	8.37	7.81	7.90	7.70	7.26	7.68	8.02	8.57
11	12.2	8.32	8.70	8.59	7.80	7.70	7.33	7.30	7.21	7.62	7.85	8.28
12	2.1	8.43	8.45	8.11	8.06	8.00	7.91	8.09	7.23	7.86	8.29	8.30
13	5.8	8.51	8.71	8.71	8.21	8.27	7.69	7.62	7.12	7.56	8.13	8.39
14	11.7	8.25	8.51	8.45	7.95	7.73	7.38	7.29	7.16	7.56	7.79	8.33
15	2.2	8.26	8.62	8.41	8.05	8.50	7.95	7.80	7.75	7.90	8.16	8.59
16	13.7	7.91	8.67	8.41	7.79	8.16	7.52	7.49	7.25	7.96	7.73	8.24
17	26.7	7.81	8.72	8.55	7.99	7.92	7.56	7.57	7.25	7.64	7.55	8.06
18	2.7	8.19	8.42	7.94	8.73	8.52	8.20	7.75	7.93	8.16	8.05	8,40
19	3.1	8.62	8.27	7.38	8.50	8.11	7.97	7.77	7.29	7.89	8.05	8.60
20	10.6	8.10	8.14	7.58	7.59	7.91	7.39	7.42	7.56	7.71	7.93	8.18
21	28.8	8.01	8.36	7.66	7.93	7.78	7.56	7.52	7.24	7.57	7.53	8.16
22	3.9	8.00	-	7.88	7.53	9.22	8.41	7.45	7.04	7.91	7.57	9.23
23	5.5	8.06	-	8.01	7.48	8.90	7.53	7.63	7.08	7.92	7.65	8.33
24	6.5	8.06	-	7.98	7.58	8.73	7.29	7.95	7.46	7.68	7.56	8.16
25	7.0	8.07	-	7.89	8.40	7.57	7.53	7.51	7.79	7.37	8.05	8.17
26	4.0	8.33	-	7.08	7.42	7.58	7.40	7.58	7.31	7.56	7.75	8.27
27	5.8	8.12	-	6.89	7.85	7.48	7.47	7.35	7.16	7.40	7.75	8.36
28	3.6	8.12	-	6.93	8.26	7.57	7.99	8.11	7.47	7.53	7.70	8.40
29	5.7	8.31	-	7.39	7.46	7.31	7.45	7.25	7.14	7.42	7.43	8.55
36	2.5	8.50	-	7.10	7.90	7.18	7.32	7.28	7.65	6.90	7.82	9.14
38	5.7	8.29	-	7.33	7.78	7.26	7.82	7.30	7.20	7.04	7.74	8.19
39	2.2	8.43	-	7.41	7.66	7.18	7.31	7.98	7.16	7.31	7.51	8.10
40	8.0	8.50	-	7.84	7.61	7.22	7.33	7.28	7.14	7.22	7.60	7.96
43	2.5	8.41	8.45	8.13	8.17	7.88	7.41	7.97	7.32	7.30	7.65	8.18
44	12.8	8.43	8.71	8.09	7.96	7.83	7.21	7.25	7.14	7.31	7.46	7.95

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Table III-5. Continued

Station	Average Station Depth	1984 Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
45	2.5	8.48	8.44	7.70	8.54	7.89	7.32	7.87	7.33	7.32	7.79	8.43
46	13.5	8.68	8.59	7.88	8.02	7.91	7.23	7.23	7.19	7.44	7.68	8.04
47*	2.3	8.44	8.32	7.40	8.46	8.10	7.24	8.01	7.31	7.34	7.67	8.05
48	18.3	8.52	8.80	7.93	8.02	7.93	7.23	7.19	7.16	7.45	7.68	8.06
49	2.2	8.62	8.40	8.18	9.27	8.98	8.13	8.09	7.76	7.63	7.58	8.23
50	13.8	8.38	8.67	7.89	8.17	8.02	7.30	7.22	7.15	7.54	7.56	8.03
51	2.5	9.16	8.40	8.65	8.91	8.45	8.47	8.27	7.79	7.75	8.02	8.38
52	10.9	8.48	8.40	8.38	7.94	7.77	7.27	7.30	7.20	7.40	7.86	8.01
53	2.7	8.70	8.54	8.62	8.90	8.40	8.20	8.40	8.06	7.85	7.75	8.69
54	12.9	8.71	8.61	8.58	8.76	7.97	7.52	7.39	7.79	7.73	7.98	8.24
55	2.8	8.67	8.25	8.44	8.80	8.32	8.31	8.12	8.57	7.73	8.17	8.62
56	7.2	8.66	8.55	8.56	8.86	8.07	8.18	7.88	8.15	7.76	8.15	8.42
57	13.5	8.61	8.44	8.20	8.83	7.81	7.42	7.49	7.36	7.71	8.00	8.24
58	31.4	8.40	8.63	8.59	8.43	7.86	7.68	7.62	7.34	7.70	7.94	8.22
59	2.7	8.76	8.28	8.60	9.00	8.47	8.14	8.22	8.08	8.04	8.36	8.36
60	2.6	8.71	8.24	8.56	8.57	8.00	7.78	7.97	7.95	7.79	8.14	8.36
61	5.4	8.56	-	8.55	8.60	7.48	7.65	7.69	7.77	7.86	8.04	8.30
62	6.9	8.03	-	7.85	7.39	7.16	7.17	7.54	7.29	7.18	7.56	8.70
63	7.9	8.69	-	7.44	8.66	8.20	7.98	7.79	7.69	8.01	8.29	8.35
64	9.3	8.60	-	7.46	8.61	7.60	7.38	7.60	7.38	7.71	8.11	8.35
65	3.1	8.61	-	7.30	7.42	7.34	-	-	-	-	7.84	7.99
66	2.7	8.16	-	7.90	7.18	7.15	-	-	-	-	7.24	7.51
67	6.8	8.72	-	8.33	7.73	7.95	7.58	7.29	7.38	7.83	7.87	8.53
68	5.9	8.71	-	8.22	8.47	7.54	7.32	7.41	7.24	7.55	7.68	8.34
70	16.8	8.78	8.52	8.80	8.48	7.81	7.49	7.32	7.61	7.68	8.08	8.37
71	15.4	8.88	8.24	8.93	8.82	7.31	7.11	7.10	7.41	7.53	7.49	8.62
72	2.3	8.50	8.14	8.39	8.77	6.66	7.72	7.22	7.71	7.42	7.15	8.22
73	2.7	8.77	-	8.11	8.62	6.94	7.30	7.27	7.43	7.30	7.04	8.29
74	2.7	8.88	-	8.13	8.21	6.92	7.17	7.18	7.52	7.22	6.91	8.22
75	2.3	9.18	-	7.36	8.40	6.78	7.91	7.08	7.36	7.22	6.83	7.98
76	2.6	9.01	-	7.70	7.54	6.80	7.04	7.56	7.41	7.13	6.81	8.27
77	2.7	9.34	7.66	6.91	7.85	6.82	7.18	6.98	7.33	7.14	6.82	7.84
78	2.5	8.69	-	7.24	7.02	6.88	7.12	7.01	7.26	6.89	6.88	8.40
79	2.4	8.00	-	6.85	8.25	7.03	7.66	7.56	7.86	6.63	6.61	8.12
80	2.3	7.70	-	6.58	7.10	6.75	7.28	7.13	7.09	6.70	6.61	7.68

* Station 47 relocated in April 1985

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Table III-5. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
01	2.3	8.49	8.08	9.44	8.41	7.78	7.89	8.17	8.21	8.22	8.12	8.32	8.33
02	6.1	8.54	8.13	9.40	8.53	7.67	7.90	8.00	8.17	8.14	8.26	8.37	8.32
03	13.6	8.99	8.05	8.76	7.79	7.53	7.38	7.60	8.05	7.93	8.96	8.18	7.89
04	28.3	8.76	7.97	8.83	7.96	7.83	7.36	7.65	7.84	7.92	-	8.19	7.96
05	3.0	8.09	8.05	9.11	8.08	8.24	7.53	7.88	8.03	8.19	-	8.38	8.25
06	2.9	8.44	8.09	9.51	8.36	8.06	7.87	8.08	8.19	8.24	8.13	8.41	8.28
07	5.7	8.37	8.07	9.19	8.52	7.58	7.86	7.94	8.14	8.20	8.24	8.36	8.36
08	12.4	8.55	8.03	8.72	7.80	7.43	7.38	7.58	8.13	7.94	8.20	8.18	7.93
09	2.8	8.44	8.08	9.44	8.49	7.70	7.92	8.33	8.29	8.26	8.14	8.34	8.31
10	6.5	8.55	8.09	9.35	8.42	7.44	7.99	7.99	8.29	8.21	8.23	8.36	8.42
11	12.2	8.60	7.99	8.73	7.71	7.49	7.39	7.57	8.15	7.92	8.18	8.25	7.95
12	2.1	8.58	8.12	9.45	8.47	7.22	8.00	8.23	8.23	8.15	8.67	8.36	8.43
13	5.8	8.57	8.09	9.40	8.34	7.23	7.74	7.98	8.11	8.06	9.09	8.37	8.34
14	11.7	8.67	8.01	8.75	7.69	7.47	7.34	7.51	8.07	7.90	7.78	8.20	8.09
15	2.2	8.60	8.08	9.32	8.61	7.97	8.13	7.93	8.07	7.87	6.90	8.38	8.14
16	13.7	8.52	7.91	8.91	7.76	7.43	7.35	7.60	7.76	7.84	7.47	8.24	7.87
17	26.7	8.22	7.84	8.86	7.91	7.72	7.35	7.54	7.79	7.88	8.91	8.17	7.83
18	2.7	8.32	8.08	8.81	8.29	7.94	7.94	7.78	8.03	7.89	-	8.42	8.48
19	3.1	8.35	8.09	9.40	8.41	7.19	8.23	7.98	8.04	7.71	-	8.43	7.88
20	10.6	8.23	7.95	8.67	7.61	7.30	7.34	7.39	7.80	7.56	-	8.03	7.63
21	28.8	8.19	7.82	8.89	7.83	7.74	7.34	7.46	7.69	7.87	-	8.16	7.77
22	3.9	7.99	7.75	9.15	7.80	8.10	7.76	7.34	7.45	7.51	-	7.71	7.42
23	5.5	8.01	7.81	8.66	7.93	7.93	7.41	7.73	7.68	7.72	-	7.68	7.33
24	6.5	8.05	7.92	7.86	7.42	7.35	7.31	7.46	7.51	7.73	-	7.91	7.17
25	7.0	8.11	8.03	7.93	-	7.05	7.28	7.85	8.08	7.75	-	7.76	7.30
26	4.0	7.90	7.81	7.95	7.56	7.35	7.82	7.82	7.65	7.58	-	7.83	7.39
27	5.8	-	7.80	8.73	7.86	7.32	7.55	7.90	7.66	7.54	-	7.68	7.41
28	3.6	-	7.78	8.57	8.36	7.25	8.38	8.22	7.75	7.64	-	7.65	7.39
29	5.7	-	7.78	7.80	7.65	7.17	7.74	7.87	7.79	7.50	-	8.04	7.45
36	2.5	8.83	8.40	8.35	8.31	7.25	7.25	7.46	7.63	7.76	-	8.50	7.80
38	5.7	8.56	7.84	7.88	7.73	7.65	7.16	7.46	7.42	7.65	-	7.68	7.48
39	2.2	8.31	7.80	7.65	7.65	7.38	7.13	7.57	7.55	7.72	7.83	8.11	7.37
40	8.0	8.47	7.89	7.52	7.70	7.30	7.17	7.63	7.56	7.73	7.39	8.01	7.36
43	2.5	7.73	8.38	7.50	8.57	7.41	7.26	7.77	7.62	7.82	8.09	7.99	7.60
44	12.8	8.22	8.12	7.78	8.10	7.20	7.10	7.73	7.66	7.84	8.13	8.39	7.43

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Table III-5. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
45	2.5	7.74	8.28	7.47	8.43	7.35	7.30	7.78	7.65	7.86	8.17	8.09	7.57
46	13.5	8.25	8.19	7.80	8.08	7.17	7.11	7.74	7.66	7.83	8.30	8.48	7.42
47*	2.3	7.71	8.32	7.50	8.38	7.39	7.33	7.73	7.67	7.87	8.08	8.28	7.55
48	18.3	8.46	8.09	7.88	8.08	7.26	7.12	7.84	7.67	7.85	8.34	8.39	7.47
49	2.2	8.57	8.60	7.89	8.76	8.04	7.65	8.31	7.76	8.37	8.05	8.18	7.55
50	13.8	8.61	8.13	7.90	8.22	7.21	7.13	-	7.76	7.89	8.29	8.08	7.46
51	2.5	8.89	8.38	8.56	8.61	7.88	8.01	7.97	8.06	8.43	8.36	8.65	8.49
52	10.9	8.51	7.96	8.55	8.14	7.26	7.27	8.00	7.97	7.96	8.32	8.43	8.23
53	2.7	8.33	8.22	8.74	8.25	8.42	7.93	8.16	7.99	8.17	8.33	8.87	8.79
54	12.9	9.07	8.14	8.68	8.29	7.80	7.31	7.96	8.04	7.89	8.22	8.87	8.20
55	2.8	8.60	8.20	8.64	8.31	8.23	8.23	8.05	8.06	8.08	8.29	8.80	8.71
56	7.2	8.41	8.14	8.62	8.41	8.11	8.06	7.89	8.08	8.06	8.28	8.91	8.54
57	13.5	8.42	8.12	7.96	8.40	7.65	7.23	8.03	7.87	8.03	8.32	8.93	8.31
58	31.4	8.45	7.97	8.18	8.29	7.57	7.34	7.75	7.71	7.86	-	9.14	7.97
59	2.7	8.43	8.12	8.74	8.20	8.21	8.26	8.15	8.10	8.01	-	8.60	8.94
60	2.6	8.49	8.03	8.29	8.18	7.91	7.91	8.12	8.14	8.03	-	8.59	8.93
61	5.4	8.47	7.88	8.33	7.90	7.66	7.82	7.98	8.57	7.95	-	8.91	8.86
62	6.9	7.80	7.33	7.39	7.70	7.18	7.10	7.60	7.66	7.44	-	8.83	7.59
63	7.9	8.31	8.10	7.78	7.78	7.85	7.64	7.94	7.87	8.06	-	8.10	8.28
64	9.3	8.79	8.18	7.94	8.16	7.70	7.65	7.71	7.79	7.88	-	8.52	7.79
65	3.1	-	8.19	7.93	8.38	7.42	7.75	7.60	7.55	7.62	-	8.09	7.52
66	2.7	-	7.20	7.11	7.95	7.31	7.14	7.81	7.76	7.02	-	7.06	7.11
67	6.8	8.10	8.07	7.65	-	7.43	7.31	7.81	7.66	8.26	-	7.68	7.41
68	5.9	8.34	8.22	7.69	-	7.22	7.14	7.70	7.69	8.16	-	7.88	7.42
70	16.8	9.05	8.25	8.16	8.03	7.33	7.30	7.85	7.95	7.92	-	8.92	8.32
71	15.4	9.16	8.15	8.13	8.13	7.18	7.38	7.82	7.87	8.17	8.26	9.47	8.30
72	2.3	9.33	8.31	8.18	8.44	7.22	7.90	7.59	7.71	8.06	8.62	8.89	7.72
73	2.7	8.99	8.22	7.97	8.15	7.34	7.45	7.68	7.62	8.10	8.48	8.69	7.69
74	2.7	8.97	7.84	7.61	8.04	7.11	7.62	7.59	7.55	8.06	8.57	8.66	7.50
75	2.3	8.48	7.68	7.54	7.95	7.00	7.51	7.81	7.50	7.86	8.84	8.57	7.45
76	2.6	8.05	7.57	7.47	7.91	7.25	7.51	7.54	7.50	7.72	8.49	8.50	7.41
77	2.7	8.24	7.43	7.41	7,94	7.10	7.45	7.50	7.42	7.78	7.96	7.37	7.33
78	2.5	8.08	7.30	7.66	8.24	7.06	7.16	7.29	7.35	7.26	-	7.55	7.19
79	2.4	7.55	7.21	7.17	8.56	7.09	7.33	7.52	7.45	7.08	-	7.47	7.09
80	2.3	7.64	7.10	7.08	7.22	6.95	7.12	7.66	7.07	7.08	-	7.50	7.15

* Station 47 relocated in April 1985

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Table III-5. Continued

Station	Average Station Depth	1987 May	1987 Jun	1987 Jul	1987 Aug	1987 Oct	1987 Dec	1988 Jan	1988 Mar	1988 Apr	1988 May	1988 Jun	1988 Aug
		pH											
01	2.3	8.73	8.24	7.95	7.79	7.91	8.19	8.37	8.44	-	8.56	8.50	8.05
02	6.1	8.74	8.23	8.02	8.00	7.67	8.25	8.40	8.37	-	8.49	8.44	7.73
03	13.6	7.74	7.79	7.53	7.59	-	8.07	8.34	8.16	-	7.48	7.47	7.25
04	28.3	7.75	7.78	7.50	7.70	-	8.05	-	8.28	7.70	7.43	7.50	7.30
05	3.0	8.56	8.58	7.90	8.15	8.58	8.20	8.47	8.46	7.45	8.90	8.37	8.34
06	2.9	8.75	8.15	7.85	7.69	7.79	8.15	8.44	8.30	-	8.46	8.40	7.63
07	5.7	8.69	8.07	8.00	8.03	7.63	8.26	8.43	8.21	-	8.43	8.53	7.30
08	12.4	7.65	7.78	7.48	7.51	7.89	8.03	8.24	8.05	-	7.71	7.46	7.32
09	2.8	8.73	8.38	8.02	7.50	8.08	8.22	8.39	8.30	-	8.51	8.57	7.45
10	6.5	8.71	8.21	7.85	7.73	7.46	8.28	8.44	8.29	-	8.52	8.58	7.40
11	12.2	7.66	7.75	7.49	7.50	7.77	8.17	8.24	8.03	-	7.89	7.47	7.27
12	2.1	8.61	7.74	8.29	8.00	7.67	8.24	8.42	8.28	-	8.62	8.47	8.04
13	5.8	8.65	7.81	7.89	7.82	7.46	8.19	8.45	8.31	-	8.57	8.43	7.65
14	11.7	7.58	7.77	7.49	7.52	7.89	8.09	8.28	7.98	-	7.92	7.59	7.61
15	2.2	8.66	8.08	7.97	8.39	8.03	8.46	8.31	8.33	-	8.50	8.44	7.16
16	13.7	7.48	7.50	7.38	7.67	7.97	8.00	8.19	7.93	-	7.88	7.36	7.51
17	26.7	7.49	7.66	7.54	7.78	-	8.03	8.22	7.98	-	7.31	7.47	7.31
18	2.7	7.90	7.72	8.16	8.01	8.39	8.14	-	-	-	8.46	8.02	7.91
19	3.1	8.88	7.33	7.77	8.08	8.78	8.46	-	-	-	8.52	8.45	-
20	10.6	7.33	7.40	7.25	7.54	7.85	7.98	-	-	-	8.00	7.15	7.47
21	28.8	7.33	7.53	7.49	7.70	7.97	8.01	-	-	-	7.26	7.40	7.34
22	3.9	8.31	7.42	7.48	7.32	7.89	8.38	-	-	-	8.02	7.78	7.05
23	5.5	7.80	7.34	7.32	7.62	8.04	7.87	-	-	-	7.66	7.32	7.39
24	6.5	7.35	7.34	7.15	7.58	7.79	7.88	-	-	-	7.39	7.41	7.05
25	7.0	8.49	7.28	7.33	7.43	8.10	7.81	-	-	-	7.01	7.33	-
26	4.0	7.88	7.31	7.27	7.30	7.72	7.80	-	-	-	7.33	7.34	6.48
27	5.8	7.84	7.28	7.17	7.27	7.63	7.49	-	-	-	-	7.01	-
28	3.6	8.15	8.41	7.44	7.60	7.76	7.63	-	-	-	-	7.08	8.41
29	5.7	7.79	7.06	7.10	7.26	8.76	7.54	-	-	-	-	6.72	6.68
36	2.5	7.87	7.46	7.60	7.37	7.77	7.87	-	7.22	6.56	-	8.16	7.29
38	5.7	7.28	7.29	6.88	6.69	7.73	7.65	-	8.09	6.62	-	7.21	6.92
39	2.2	7.45	7.22	6.81	6.94	7.84	7.81	7.76	8.04	6.95	7.27	7.31	6.98
40	8.0	7.44	7.20	6.80	7.07	7.72	7.81	7.79	7.69	6.99	7.30	7.25	7.04
43	2.5	7.64	7.36	7.07	7.33	7.82	7.94	7.80	8.16	7.03	7.43	7.45	7.27
44	12.8	7.31	7.29	7.15	7.42	7.70	7.81	7.29	7.68	7.09	7.42	7.29	7.15

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Table III-5. Continued

Station	Average Station Depth	1987 May	1987 Jun	1987 Jul	1987 Aug	1987 Oct	1987 Dec	1988 Jan	1988 Mar	1988 Apr	1988 May	1988 Jun	1988 Aug
		pH											
45	2.5	7.57	7.36	7.07	7.37	8.04	8.09	7.91	8.14	7.37	7.48	7.43	7.31
46	13.5	7.31	7.30	7.03	7.43	7.95	7.87	7.98	7.64	7.11	7.42	7.31	7.18
47*	2.3	7.55	7.42	7.09	7.39	7.91	8.29	7.85	8.18	7.41	7.56	7.40	7.34
48	18.3	7.38	7.30	7.06	7.43	7.73	7.89	8.03	7.67	7.16	7.54	7.32	7.17
49	2.2	7.46	7.83	7.35	7.59	8.29	8.52	8.31	8.09	7.32	8.69	7.96	7.64
50	13.8	7.45	7.31	7.10	7.46	7.71	7.90	8.44	7.75	7.58	7.57	7.36	7.16
51	2.5	8.96	8.23	8.27	7.88	8.55	8.57	8.49	8.44	8.34	8.80	8.01	8.11
52	10.9	8.08	7.64	7.25	7.42	7.84	7.88	8.23	8.21	7.62	8.12	7.51	7.26
53	2.7	9.12	8.38	8.03	8.21	8.30	8.22	8.37	8.40	8.56	9.07	8.52	8.15
54	12.9	8.03	7.96	7.74	8.09	8.29	8.05	8.35	8.15	8.30	8.27	8.23	7.35
55	2.8	9.14	8.38	7.64	8.21	8.47	8.38	8.89	8.23	8.23	8.96	8.46	8.26
56	7.2	8.64	8.27	7.64	7.95	8.35	8.24	8.45	8.18	8.16	8.85	8.33	7.74
57	13.5	7.77	7.84	7.15	7.51	8.25	8.10	8.27	8.04	7.91	8.04	7.92	7.46
58	31.4	8.01	7.82	7.51	7.77	7.95	8.08	-	8.17	7.68	7.93	7.83	7.34
59	2.7	8.89	8.83	8.80	8.27	8.33	8.26	-	8.37	7.85	-	8.40	8.36
60	2.6	8.87	8.04	7.78	8.32	8.40	8.23	-	8.48	7.62	8.51	8.45	-
61	5.4	7.88	7.84	7.62	7.94	8.25	8.23	-	8.22	8.42	8.27	7.91	8.01
62	6.9	7.09	7.16	7.03	7.44	7.57	7.61	-	-	7.36	-	7.28	7.33
63	7.9	7.87	8.02	7.92	7.88	8.01	8.19	-	-	-	8.24	7.99	7.58
64	9.3	7.65	7.72	7.40	7.70	7.77	8.00	-	-	-	7.84	7.67	7.53
65	3.1	7.75	7.52	7.34	7.63	7.47	7.87	-	-	-	-	7.39	7.26
66	2.7	7.30	7.19	6.99	-	7.10	7.50	-	-	-	-	7.01	7.02
67	6.8	7.45	7.37	7.75	7.66	7.82	7.98	-	-	-	7.52	7.17	-
68	5.9	7.43	7.64	7.21	7.05	7.64	7.76	-	-	-	6.98	7.24	-
70	16.8	7.89	7.79	7.08	7.61	7.88	8.08	-	8.17	-	8.42	6.66	7.94
71	15.4	7.44	7.34	7.37	7.45	7.93	8.37	8.50	8.56	-	7.47	7.49	7.69
72	2.3	7.58	7.71	7.36	7.34	7.80	7.98	8.37	8.66	-	7.43	7.21	7.44
73	2.7	7.50	7.17	7.18	7.11	7.42	7.84	8.32	8.60	-	7.36	7.63	7.33
74	2.7	7.38	7.14	7.11	6.93	7.07	7.67	8.17	8.55	-	7.21	7.08	7.12
75	2.3	7.34	7.75	6.97	6.57	6.84	7.54	7.75	8.42	-	7.08	6.86	6.96
76	2.6	6.11	7.11	6.90	6.53	6.72	7.44	7.86	8.39	-	6.84	6.78	6.93
77	2.7	7.23	8.39	6.75	6.72	6.77	7.36	7.56	7.89	-	6.66	6.73	6.64
78	2.5	7.24	7.58	7.17	6.95	7.08	7.33	-	7.32	-	7.15	6.98	6.77
79	2.4	7.62	7.63	7.05	8.08	8.32	7.20	-	7.09	-	7.08	7.74	6.94
80	2.3	7.00	7.12	6.86	7.16	7.16	7.09	-	6.98	-	6.81	6.83	6.93

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Table III-6. Percentage silt-clay content of sediments from long-term benthic monitoring stations in Chesapeake Bay, July 1984 to April 1988. Dashes indicate missing data.

Station	Average Station Depth	1986 Jan/ Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec
Sand										
01	2.3	1.46	1.11	0.33	1.31	0.99	0.60	1.15	1.11	1.26
02	6.1	1.48	0.90	0.53	1.62	1.14	0.95	0.81	0.22	0.83
05	3.0	1.41	1.78	3.02	1.36	1.49	2.41	4.06	4.68	1.85
06	2.9	0.71	0.27	0.17	0.48	0.88	0.77	0.81	0.96	1.38
07	5.7	5.86	2.71	1.36	1.74	2.00	1.76	1.54	3.03	1.37
09	2.8	0.57	0.68	0.40	0.50	1.02	1.01	0.89	1.18	0.59
10	6.5	19.38	1.04	22.59	9.97	6.65	3.51	1.94	13.24	12.17
12	2.1	1.31	0.94	1.07	3.97	1.59	1.45	1.38	2.28	1.25
13	5.9	1.73	1.10	0.93	2.16	1.13	1.10	1.66	1.51	0.74
15	2.2	1.16	0.93	1.21	2.63	2.28	1.58	1.98	1.07	1.31
18	2.7	0.94	1.00	1.29	1.54	1.64	1.91	2.66	2.20	2.15
43	2.5	5.11	4.29	3.12	4.43	6.70	3.85	7.12	4.99	5.39
45	2.5	2.65	4.23	2.15	4.35	-	4.62	3.60	3.91	2.46
47*	2.3	0.08	3.45	7.50	3.13	5.60	6.25	7.03	7.63	4.91
49	2.2	17.51	6.28	2.19	4.12	2.45	3.95	3.86	3.83	3.47
51	2.5	1.15	1.58	1.85	1.67	1.38	2.20	3.34	2.57	4.00
53	2.7	0.98	1.30	1.04	0.73	7.24	1.53	1.43	2.55	1.60
55	2.8	0.06	1.33	1.16	1.36	0.71	1.75	1.68	1.95	1.31
56	2.7	2.58	0.79	2.36	1.67	1.23	1.24	1.37	1.24	0.94
59	2.7	0.07	1.47	0.79	0.71	0.85	1.27	0.98	1.22	0.56
Muddy Sand										
19	3.1	19.30	11.26	12.74	13.28	19.26	9.24	14.87	16.67	19.61
39	2.2	60.63	58.08	18.19	65.73	26.33	31.60	38.78	18.40	70.43
60	2.6	23.20	37.73	49.83	13.74	46.68	35.67	50.95	42.07	31.50
80	2.3	14.54	34.04	41.19	32.78	22.62	23.42	17.72	74.10	87.87

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Table III-6. Continued

Station	Average Station Depth	1987 Jan	Mar	Apr	May	Jun	Jul	Aug	Oct	Dec
Sand										
01	2.3	-	0.84	2.15	0.84	1.58	0.89	0.89	1.37	1.13
02	6.1	0.79	1.03	0.83	1.06	1.10	0.77	0.85	0.91	0.47
05	3.0	0.77	4.25	2.84	2.61	2.58	3.67	3.52	5.22	2.18
06	2.9	0.70	0.63	0.89	0.82	1.15	0.83	1.39	0.98	0.60
07	5.7	1.19	1.57	1.35	1.48	1.60	2.60	2.16	1.88	1.56
09	2.8	1.98	0.73	1.06	0.61	0.83	1.03	1.08	1.12	0.36
10	6.5	12.96	14.82	7.14	0.93	10.54	9.88	11.07	6.26	4.56
12	2.1	1.14	0.84	1.13	1.29	1.26	1.14	1.61	1.34	2.35
13	5.9	1.12	1.14	1.11	1.07	1.48	1.71	2.67	1.84	1.39
15	2.2	-	2.43	2.44	1.57	2.54	1.78	2.09	3.81	1.54
18	2.7	-	1.64	2.15	1.39	1.95	2.28	3.30	3.00	1.47
43	2.5	6.38	3.81	11.25	5.75	6.93	2.52	4.63	5.18	3.89
45	2.5	4.24	3.86	4.27	3.55	3.61	2.56	5.35	3.40	3.38
47*	2.3	4.37	6.51	4.68	4.83	4.83	6.51	9.43	4.62	2.42
49	2.2	3.76	3.42	1.97	4.56	2.74	2.02	2.78	2.76	2.43
51	2.5	2.84	2.82	2.19	2.25	2.23	2.13	2.87	15.73	2.92
53	2.7	1.55	1.12	1.35	0.82	1.53	1.38	2.39	1.44	1.17
55	2.8	1.63	1.75	1.18	1.37	1.48	1.95	1.58	1.13	1.48
56	2.7	-	0.98	1.06	1.28	1.22	1.09	1.20	0.99	0.76
59	2.7	-	0.83	0.84	1.02	0.81	1.42	1.09	1.09	-
Muddy Sand										
19	3.1	-	8.99	19.10	12.45	15.39	10.91	19.51	38.99	12.46
39	2.2	44.47	26.96	33.20	29.86	58.37	30.92	19.01	48.08	40.05
60	2.6	-	28.08	38.51	23.82	18.48	51.00	40.78	18.28	26.20
80	2.3	-	18.17	77.68	16.32	42.60	10.13	11.54	43.74	20.14

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Table III-6. Continued

Station	Average Station Depth	1988 Jan	1988 Mar	1988 Apr
Sand				
01	2.3	0.97	1.51	1.13
02	6.1	0.91	1.06	0.72
05	3.0	3.87	2.92	2.25
06	2.9	0.73	1.38	0.76
07	5.7	0.43	1.30	1.80
09	2.8	0.67	1.00	0.97
10	6.5	4.78	4.12	3.99
12	2.1	1.29	0.95	1.65
13	5.9	0.89	1.16	1.12
15	2.2	1.13	2.08	1.34
18	2.7	-	-	1.31
43	2.5	3.82	3.89	3.54
45	2.5	3.95	1.43	2.80
47*	2.3	5.01	5.05	5.68
49	2.2	3.94	2.59	2.04
51	2.5	2.05	3.48	2.93
53	2.7	1.24	1.19	1.13
55	2.8	0.94	2.07	1.15
56	2.7	0.98	1.07	1.48
59	2.7	-	0.98	0.89
Muddy Sand				
19	3.1	-	-	-
39	2.2	19.59	85.87	31.53
60	2.6	-	26.46	23.08
80	2.3	-	35.21	-

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Table III-6. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec
Sandy Mud										
04	28.3	90.30	95.41	93.16	95.34	25.07	69.54	82.10	95.01	90.13
22	3.9	83.82	82.53	86.78	88.39	88.64	87.61	88.73	68.86	79.49
25	7.0	59.49	85.76	85.51	-	78.60	77.49	79.00	78.95	82.51
27	5.8	-	68.13	60.56	64.49	59.96	78.37	63.71	68.25	66.60
28	3.6	-	41.58	55.85	61.71	44.07	43.05	54.29	56.39	50.42
29	5.7	-	74.17	92.56	83.71	75.09	68.75	78.61	57.98	65.39
36	2.5	96.98	52.73	80.90	71.10	81.41	72.61	71.95	60.08	41.15
54	12.9	93.51	77.12	80.66	88.41	87.14	83.85	84.35	85.48	82.81
57	13.5	89.34	91.53	89.88	47.57	40.07	78.94	88.51	69.06	74.43
58	31.4	87.49	96.90	92.47	96.30	91.41	94.67	92.14	31.52	92.04
61	5.4	78.28	78.44	80.64	83.81	82.33	66.57	77.84	69.43	94.91
65	3.1	-	79.90	76.06	84.11	82.41	77.35	69.64	65.56	86.06
68	5.9	17.43	84.83	88.48	-	89.20	88.00	81.72	90.48	78.73
72	2.3	56.12	70.96	63.46	56.87	46.56	69.03	79.12	72.51	56.37
73	2.7	80.71	76.82	59.33	89.12	92.91	91.94	69.93	71.42	80.89
Mud										
03	13.6	90.26	95.80	95.47	95.44	95.20	94.87	94.50	94.58	91.40
08	12.4	88.75	94.95	97.00	94.75	83.58	92.51	91.66	91.29	93.44
11	12.2	95.21	93.63	94.28	96.08	94.52	96.52	95.74	87.70	91.44
14	11.7	94.65	93.89	96.77	92.01	98.08	96.26	91.94	90.91	91.86
16	13.7	93.31	94.94	98.39	97.53	95.01	97.75	95.62	95.46	99.17
17	26.8	94.57	94.70	97.51	94.35	92.89	91.50	97.78	95.62	90.79
20	10.6	92.22	96.75	99.01	99.03	95.77	95.69	94.06	94.12	92.64
21	28.8	98.24	96.06	98.04	98.77	95.46	96.59	94.81	91.80	93.11
23	5.5	91.97	94.44	96.26	93.56	95.01	95.83	90.81	89.02	72.31
24	6.5	97.97	93.84	97.54	97.03	95.21	95.92	97.84	95.13	95.19

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Table III-6. Continued

Station	Average Station Depth	1987 Jan	Mar	Apr	May	Jun	Jul	Aug	Oct	Dec
Sandy Mud										
04	28.3	-	87.83	92.84	89.69	17.36	95.51	95.39	89.78	81.79
22	3.9	-	85.26	85.74	77.72	40.62	88.18	85.33	89.64	84.04
25	7.0	-	87.58	79.17	78.43	84.84	83.38	80.86	85.62	85.50
27	5.8	-	62.59	65.33	63.16	59.99	71.43	75.55	77.73	83.50
28	3.6	-	48.06	54.46	40.49	47.54	45.15	48.36	74.78	43.59
29	5.7	-	73.87	63.77	60.64	76.18	63.30	68.29	39.35	79.49
36	2.5	-	78.31	51.51	52.26	89.95	51.14	91.95	91.21	73.20
54	12.9	88.94	86.86	79.52	77.50	84.56	91.58	80.99	84.75	80.34
57	13.5	83.80	89.32	91.40	49.13	90.62	80.31	76.44	90.85	81.69
58	31.4	-	92.82	24.89	90.96	13.48	94.75	97.32	93.80	94.40
61	5.4	-	72.48	68.34	76.61	83.17	91.30	67.67	68.14	77.57
65	3.1	-	76.26	70.21	61.84	72.18	78.14	82.66	75.55	73.86
68	5.9	-	82.93	79.42	89.57	89.71	78.42	82.31	84.20	83.27
72	2.3	64.74	61.47	70.49	71.94	66.59	71.55	-	65.95	64.43
73	2.7	79.76	83.18	90.56	95.48	89.94	95.01	95.39	70.23	70.70
Mud										
03	13.6	91.14	87.71	93.29	93.10	93.81	89.18	98.23	91.79	92.22
08	12.4	91.37	85.23	89.63	90.96	91.18	90.04	97.79	98.01	93.67
11	12.2	93.11	88.41	91.68	93.48	96.89	94.13	98.02	86.37	92.04
14	11.7	92.93	91.09	90.46	90.71	93.51	92.40	99.95	94.53	95.82
16	13.7	96.75	92.83	94.76	92.94	97.66	95.34	99.07	93.79	97.44
17	26.8	93.57	90.88	91.87	95.89	97.58	95.61	99.31	92.29	95.91
20	10.6	-	91.55	95.36	95.14	96.73	98.16	80.64	92.62	98.13
21	28.8	-	89.34	93.21	95.99	96.35	94.71	98.80	98.44	96.22
23	5.5	-	91.76	89.20	89.96	89.22	93.13	46.76	80.29	87.32
24	6.5	-	95.52	94.71	96.84	95.71	96.71	98.48	90.84	97.82

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Table III-6. Continued

Station	Average Station Depth	1988 Jan	1988 Mar	1988 Apr
Sandy Mud				
04	28.3	-	91.63	88.87
22	3.9	-	-	89.38
25	7.0	-	-	-
27	5.8	-	-	75.65
28	3.6	-	-	35.42
29	5.7	-	-	89.99
36	2.5	-	75.39	45.52
54	12.9	89.95	82.33	78.90
57	13.5	83.37	86.73	89.18
58	31.4	-	92.64	92.25
61	5.4	-	87.39	83.61
65	3.1	-	-	78.37
68	5.9	-	-	75.55
72	2.3	63.71	65.26	55.78
73	2.7	90.16	78.92	92.41
Mud				
03	13.6	90.67	92.62	93.11
08	12.4	90.80	86.97	92.11
11	12.2	90.16	92.05	93.38
14	11.7	68.86	91.82	90.26
16	13.7	93.14	94.43	93.71
17	26.8	88.10	90.64	96.34
20	10.6	-	-	95.82
21	28.8	-	-	92.03
23	5.5	-	-	85.19
24	6.5	-	-	94.54

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Table III-6. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec
Mud (Cont'd)										
26	4.0	33.07	94.69	95.08	95.75	97.01	96.17	96.09	96.70	97.86
38	5.7	97.96	98.85	98.79	98.40	98.15	97.52	92.74	96.76	96.61
40	8.0	84.65	99.14	99.40	99.31	98.77	98.61	98.77	98.85	97.37
44	12.8	89.23	92.42	96.70	94.52	93.07	92.65	94.57	91.40	89.48
46	13.5	97.85	94.26	98.21	98.65	97.19	96.34	97.50	92.84	92.00
48	18.3	84.47	92.45	95.33	92.53	87.32	95.70	91.88	92.89	94.27
50	13.8	95.60	96.24	83.46	91.95	96.89	95.46	-	96.34	94.88
52	10.9	90.29	95.61	94.09	98.46	94.78	95.40	93.96	91.05	94.60
62	6.9	75.59	82.02	92.56	87.00	90.70	87.53	91.86	93.31	87.51
63	7.9	95.89	89.17	93.33	90.81	91.44	92.79	87.45	90.15	88.79
64	9.3	95.89	94.97	95.61	94.37	94.87	94.04	92.87	93.42	95.83
66	2.7	-	88.84	89.08	90.90	92.35	83.49	82.95	82.72	92.52
67	6.8	97.34	96.34	97.46	-	95.45	95.46	86.07	95.53	98.94
70	16.8	90.29	95.80	93.52	92.09	93.87	94.80	95.95	95.71	88.78
71	15.4	96.32	90.90	97.12	94.11	95.54	92.67	88.43	94.99	91.97
74	2.7	93.11	95.58	96.25	94.56	92.85	94.66	94.50	96.71	93.01
75	2.3	84.32	89.19	84.54	85.84	90.49	86.17	86.70	89.46	85.59
76	2.6	93.90	95.45	95.41	96.38	97.37	93.12	95.95	94.18	94.90
77	2.7	97.05	96.34	95.63	94.94	95.27	94.99	94.95	95.43	93.91
78	2.5	95.94	95.45	96.71	93.97	88.36	94.39	91.95	91.09	81.94
79	2.4	92.05	94.90	94.70	96.17	93.29	94.10	94.63	95.30	93.77

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Table III-6. Continued

Station	Average Station Depth	1987 Jan	Mar	Apr	May	Jun	Jul	Aug	Oct	Dec
Mud (Cont'd)										
26	4.0	-	95.13	94.70	96.29	97.25	97.98	96.09	95.36	97.08
38	5.7	-	97.17	98.35	94.50	98.63	97.31	99.68	97.62	99.11
40	8.0	90.52	97.96	96.91	96.91	95.04	98.22	98.21	97.36	97.78
44	12.8	93.10	90.35	88.05	92.74	90.19	89.54	92.26	88.18	93.88
46	13.5	92.72	91.35	93.95	91.72	96.01	91.50	93.80	88.94	93.33
48	18.3	90.77	85.84	81.71	84.56	96.21	95.07	97.21	95.32	97.37
50	13.8	94.08	95.30	90.28	90.85	89.62	95.95	97.35	97.67	92.26
52	10.9	92.24	93.57	94.50	94.24	86.26	93.61	98.23	96.18	93.39
62	6.9	-	93.99	92.93	77.74	85.79	86.90	94.94	86.79	90.35
63	7.9	-	92.39	86.66	90.86	93.49	90.38	92.53	91.11	94.20
64	9.3	-	89.16	84.45	94.88	95.18	91.30	97.95	88.58	96.44
66	2.7	-	92.56	82.62	90.34	75.58	92.59	-	90.19	85.12
67	6.8	-	91.17	94.80	93.39	90.54	88.97	96.55	89.23	92.17
70	16.8	-	92.40	95.82	92.43	92.54	88.84	-	89.50	88.00
71	15.4	94.13	85.19	89.88	91.60	88.55	96.43	97.28	94.46	91.99
74	2.7	91.71	91.63	92.72	96.00	93.60	96.58	-	94.24	94.05
75	2.3	85.79	86.47	83.18	99.76	85.62	88.41	87.78	77.95	84.09
76	2.6	94.45	94.79	95.71	92.60	95.40	96.65	95.90	96.52	94.06
77	2.7	94.26	95.03	95.29	94.37	94.00	92.50	97.35	96.47	93.13
78	2.5	-	88.96	94.73	85.91	94.50	94.33	95.80	92.03	91.77
79	2.4	-	88.96	94.73	92.43	93.45	94.66	96.13	91.43	96.51

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Table III-6. Continued

Station	Average Station Depth	1988 Jan	1988 Mar	1988 Apr
Mud (Cont'd)				
26	4.0	-	-	93.46
38	5.7	-	97.84	97.79
40	8.0	96.18	98.00	97.57
44	12.8	85.86	83.50	83.92
46	13.5	93.15	92.13	95.07
48	18.3	90.21	98.57	92.70
50	13.8	94.13	92.75	92.23
52	10.9	93.14	95.09	93.42
62	6.9	-	-	82.59
63	7.9	-	-	90.46
64	9.3	-	-	94.58
66	2.7	-	-	96.90
67	6.8	-	-	82.78
70	16.8	-	99.71	91.21
71	15.4	92.82	90.43	90.38
74	2.7	93.42	95.38	93.01
75	2.3	79.44	85.57	86.02
76	2.6	94.70	95.27	93.98
77	2.7	95.35	97.99	95.07
78	2.5	-	92.64	88.75
79	2.4	-	92.73	91.89

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Table III-7. Annual production values in grams AFDW/sq m/yr for each species at each station measured during 1985-86 and 1986-87

SPECIES	STATION 01		03		05		06		08		15		17	
	1985	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985	1986
Carinoma tremaphorus	.01	.005	.0048	-	.058	-	.0082	-	-	-	.037	-	-	-
Eteone heteropoda	.01	-	.026	.012	.0052	.002	.0019	-	.043	.017	.012	.001	.019	.007
Glycinde solitaria	.02	.004	.21	.120	.066	.052	.0061	.019	.212	.122	.101	.015	.019	.056
Heteromastus filiformis	.20	.430	.03	-	.76	2.42	.274	.249	.009	-	.691	1.48	-	.004
Marenzelleria viridis	1.12	.011	.015	-	.62	.182	2.34	.021	.082	-	3.13	.21	.578	-
Micrura leidyi	1.74	1.04	-	-	.67	1.15	1.866	.482	.471	-	.941	.39	2.74	-
Nereis succinea	.03	.023	4.18	.092	.335	.193	.572	.009	2.98	.238	1.667	.089	.006	-
Paraprionospio pinnata	.01	.004	1.375	.05	.16	.069	.041	-	1.82	.201	-	-	.241	.078
Streblospio benedicti	.04	.013	.158	.030	.008	.053	.0099	.005	.0596	.039	.028	.029	.075	.11
Cyathura polita	.18	.050	-	-	.019	-	.0007	-	-	-	.046	-	-	-
Gammarus spp.	-	-	-	-	-	-	-	-	-	-	-	.0005	-	-
Leptocheirus plumulosus	.01	-	.042	-	.0001	-	.0024	-	.062	-	.113	.076	-	-
Acteocina canaliculata	.16	.024	.0034	.242	.049	.164	.043	.069	.0001	.043	-	-	.0000	.002
Corbicula sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gemma gemma	.12	.03	-	-	.067	.001	.019	.002	-	-	.002	-	-	-
Haminoe solitaria	.18	.119	-	-	.011	.841	.055	1.01	-	-	.137	.007	-	-
Macoma balthica	.08	.024	.50	.098	.0005	.005	.044	.162	.739	.17	.9197	.125	.0997	.055
Macoma mitchelli	-	.053	-	-	.2339	.069	.009	.009	.003	.007	.639	.82	-	-
Mulinia lateralis	.29	.14	2.75	3.06	.782	.023	.265	.013	.995	4.50	.151	.002	.642	1.4
Mya arenaria	.01	.014	.029	-	3.46	.002	.0034	-	.315	-	6.13	.189	-	-
Rangia cuneata	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tagelus plebeius	.003	.003	-	-	.719	.381	9.087	.008	-	-	.05	2.88	-	-
Subtotal														
Polychaete	1.424	.485	5.990	.304	1.959	2.97	3.244	.303	5.209	.617	5.629	1.824	.938	.255
Mollusc	.836	.407	3.284	3.400	5.323	1.486	9.525	1.273	2.053	4.72	8.025	4.023	.741	1.517
Crustacean	.193	.050	.042	-	0.19	-	.003	-	.062	-	.159	.077	-	-
Other	1.752	1.045	.005	-	.730	1.15	1.874	.482	.471	-	.978	.39	.012	-
TOTAL	4.205	1.987	9.321	3.704	8.031	5.606	14.646	2.058	7.795	5.337	14.791	6.314	1.691	1.772

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