

FINAL REPORT

Data Synthesis and Analysis

Nitrogen Processes Study (NIPS)

Nursery Habitat Utilization by Finfish and Shellfish

in Lavaca, San Antonio, and Mesquite Bays and their

Relationships to Freshwater Inflow. Section I. Data Analysis

by

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In response to House Bill 2 (1985) and Senate Bill 683 (1987), as enacted by the Texas Legislature, the Texas Parks and Wildlife Department and the Texas Water Development Board must maintain a continuous data collection and analytical study program on the effects and needs for freshwater inflow to the State's bays and estuaries. As part of the mandated study program, this research project was funded through the Board's Water Research and Planning Fund, authorized under Texas Water Code Sections 15.402 and 16.058(e), and administered by the Department under interagency cooperative contract Nos. 55-51010, 55-61011, 55-71003, and 9-483-706.

INTRODUCTION

Numerous investigators have studied nursery function of estuarine ecosystems. The presence of high standing crops of early life-history stages of particular fishes or invertebrates is considered evidence of primary nursery habitat (Weinstein 1979, Rogers *et al.* 1984). Primary nursery habitats include shallow tidal-marsh environments (Weinstein 1979, Shenker and Dean 1979, Rogers *et al.* 1984), submerged seagrass meadows (Heck and Thoman 1984), and mangrove swamps (Thayer *et al.* 1987) and are subject to salinities that range from stenohaline marine environments to oligohaline zones at the heads of estuaries. Although the young of permanently resident estuarine species utilize these areas as nurseries, the major importance of the regions is usually attributed to their support of so-called "estuarine-dependent" marine species which are of some commercial or recreational value, either directly or as forage for other important species. Weinstein (1979) suggested that the young fishes and shrimp seek out tidal creeks as preferential habitats and that marshes effectively "fill up backwards during recruitment". Several investigators have shown that these species come in waves of seasonal recruitment to these primary nursery habitats and that these temporal patterns are generally similar over a wide area (Weinstein 1979, Rogers *et al.* 1984).

PURPOSE

The purpose of this study was two-fold. The first goal was to provide data on the utilization of the Lavaca River delta estuarine zone and the upper portion of San Antonio Bay as a nursery habitat by finfish and selected macro-invertebrates. The sampling design was such that both seasonal and spatial patterns could be investigated. The second goal was to see whether variations in freshwater inflow and/or salinity had any substantial effects on the nursery function of these areas.

METHODS

Study Sites The Lavaca Bay and San Antonio Bay studies were done as part of the TWDB freshwater inflow study. The Mesquite Bay study was designed to examine the effects of reopening Cedar Bayou, the tidal inlet connecting the Gulf of Mexico with Mesquite Bay, on the reproductive biology of several sciaenid fishes and provides useful comparative data in many cases. Sampling sites are shown in Figures 1 and 2. It should be noted that in all bays there are sampling sites in open water and along the shoreline with the same designations. These are obviously not the same physical site but were sampled with different types of sampling gear as noted below. Similarly named sites were always near each other and were chosen to represent open water and shoreline zones in similar habitat (ie. tertiary bays or river sites) or salinity gradients. Since data from each type of sample gear were always analyzed separately there should be no confusion.

Finfish and macro-invertebrates were sampled with four types of collecting gear. Ichthyoplankton were sampled in open water away from shorelines with a 0.5 m diameter conical net made of 505 μm mesh and a filtering cod end. This net, fitted with a flowmeter to measure filtered water volume, was towed at the surface for three minutes.

Postlarval and juvenile fish were collected along the shoreline with a benthic sled and a bag seine. The benthic sled was a 17.8 by 53.3 cm box on steel runners with a 1800 μm mesh net attached to one end. This net was towed 25 m by hand and sampled an area of 12 m^2 . The seine was 9.2 m long and 1.8 m high with a 1.8 x 1.8 m bag. The entire seine was made of 2 mm mesh nylon. This net was pulled along the shoreline for 15 m and sampled an area of approximately 47 m^2 .

Juvenile fish were collected in open water away from shorelines with a 3 m otter trawl of 1.9 cm stretched mesh in both the wings and cod end and in addition, the cod

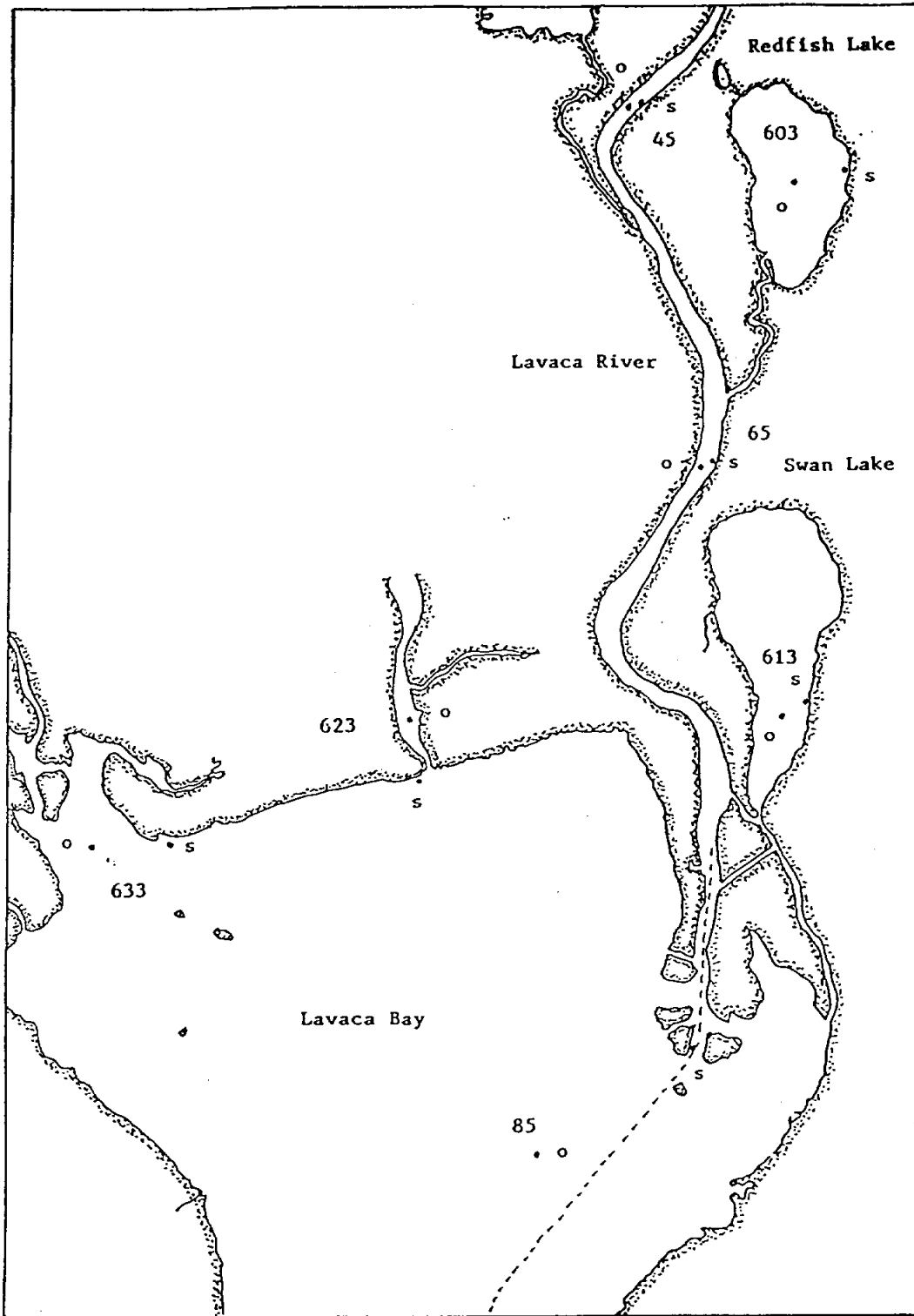


Fig 1. Location of sample sites for Lavaca Bay. Sites designated "O" are offshore sites for trawl and ichthyoplankton. Sites designated "S" are shoreline sites for seine and benthic sled.

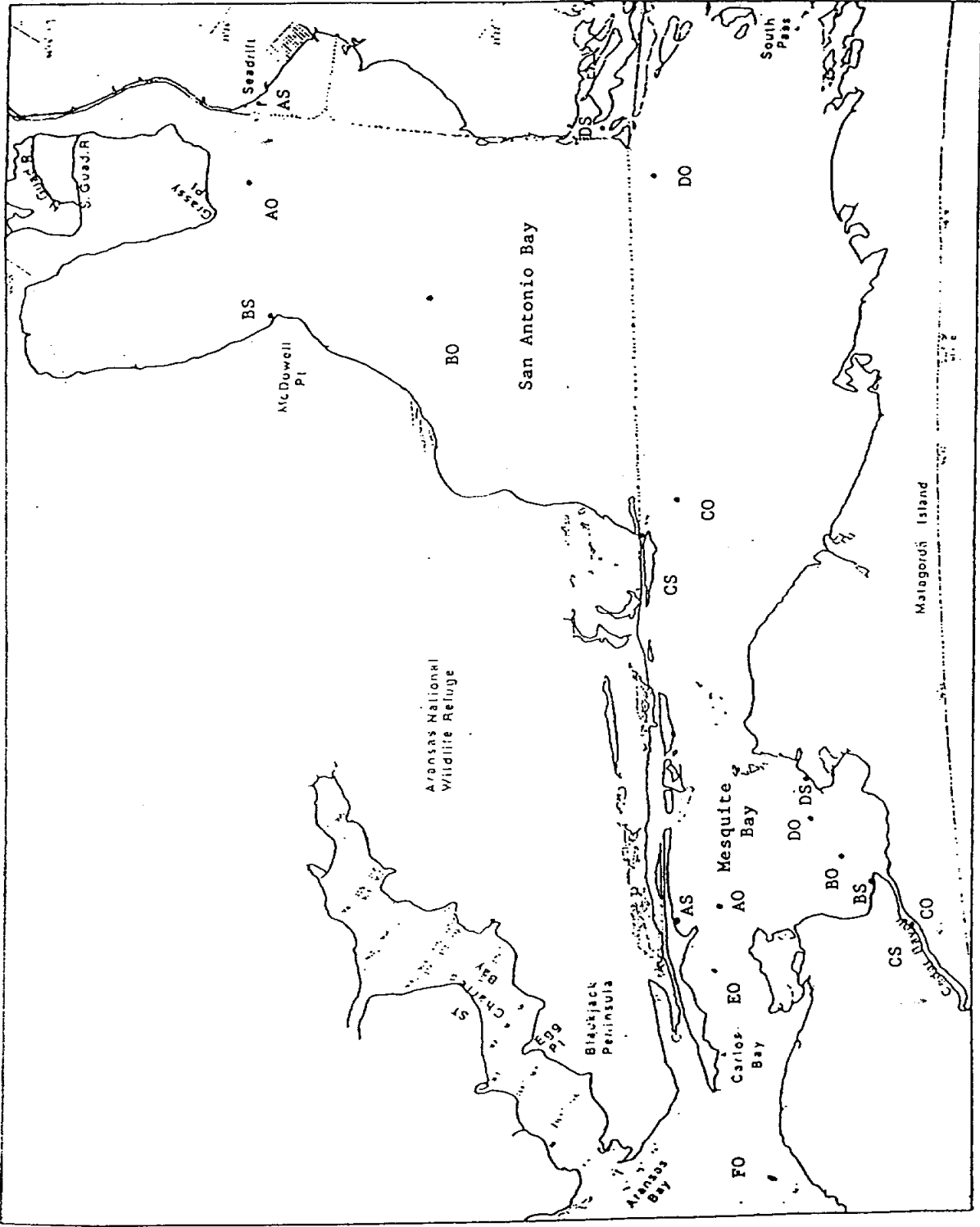


Fig 2. Location of sample sites for San Antonio and Mesquite Bay. Sites with an "O" suffix are offshore sites for trawl and ichthyoplankton. Sites with an "S" suffix are shoreline sites for seine and benthic sled.

end was fitted with a liner of 6.4 mm delta mesh. This net was towed for 3 minutes at 1200 rpm. Tows were made down-stream at the river stations and with the wind at all other sites. Plankton and trawl samples, along with zooplankton samples, were taken at the same sites on the same day. Sled and seine samples were taken at the same sites on the same day but on different days from the above mentioned samples. (Sled and seine samples were generally taken the following day.)

Samples were preserved immediately in 5 percent seawater formalin (10 percent for trawl samples) and returned to the laboratory for processing. In the lab, all individuals were counted and up to 50 individuals of each species were measured (standard length [sl] to 1 mm except notochord length [nl] to 0.1 mm in larval fish) and weighed (to the nearest 0.01 g). When more than 50 individuals of one species were present a subsample of 50 fish was measured and weighed and the total weight for all individuals was obtained. A voucher collection was established and all other material was discarded.

All samples were replicated at each site but the number of replicates differed among studies. In Lavaca Bay, all collections were taken in duplicate except trawls which were taken in triplicate. In San Antonio Bay, all collections were taken in quadruplet. In Mesquite Bay, seine and benthic sled collections were taken in duplicate while ichthyoplankton samples were taken in triplicate. There were no trawl samples in Mesquite Bay. Data are typically presented as means of these replicates at each site. Ichthyoplankton catches are given as number per 100m³, benthic sled and seine catches are give as number per 10m², and trawl catches are given as number per 3 min. tow.

The Lavaca Bay and San Antonio Bay reports to the TWDB (Holt *et al.* 1986, Holt *et al.* 1988) presented general patterns for fish distributions for each bay system. This synthesis presents detailed results for five species chosen to represent several life-history strategies and potentially different responses to freshwater inflow. These species represent important commercial or recreational species or abundant forage species.

The selected species are: Atlantic croaker (*Micropogonias undulatus*), spotted seatrout (*Cynoscion nebulosus*), bay anchovy (*Anchoa mitchilli*), white shrimp (*Penaeus setiferus*), and brown shrimp (*P. aztecus*). Atlantic croaker, white shrimp, and brown shrimp are offshore spawners that spawn in the fall (Atlantic croaker), winter (brown shrimp), or spring (white shrimp) although brown shrimp have a secondary spawning peak in the fall. Spotted seatrout and bay anchovy are primarily spring and summer bay spawners.

Each type of collecting gear was most effective in capturing different size classes and therefore the analysis of each gear type is, in effect, an analysis of different size or age classes. The analysis for each species follows the same pattern and the report is presented in two parts. In part I, mean densities and mean lengths are compared among and within bay systems to demonstrate the use (or lack of use) of these areas by small individuals. The occurrence of small individuals of these species at densities comparable to those found in "known" nursery areas will be taken as demonstration of nursery utilization.

Nursery utilization of estuaries has a strong seasonal component for most species but sampling effort was not evenly distributed throughout the year in all the bay systems. Mean densities and mean lengths were calculated by season to present as balanced a comparison as possible among locations and times. The appropriate seasonal divisions (ie. periods of highest and lowest density) vary somewhat for each species but for consistency we have divided the year into quarters and used typical seasonal names as designations. The designations, as shown in figures and tables, are: 1 = January-March (winter), 2 = April-June (spring), 3 = July-September (summer), and 4 = October-December (fall).

We have divided the bay systems on temporal or spatial parameters to minimize pooling obviously heterogeneous data. Thus: the first and second years of the Lavaca Bay study are treated separately (representing low and high salinity periods and designated LAB and LAB2 respectively); the upper and lower San Antonio Bay stations

are separated (representing the salinity gradient: upper bay, low salinity stations A and B as SAB, the lower bay, high salinity stations C and D as SAB2); and the Mesquite Bay samples are divided into pre and post-opening of Cedar Bayou (pre-opening collections [prior to September 1987] as CBY, and the post-opening collections as CBYO). The one San Antonio Bay sample in 1988 (which would represent a higher salinity year 2 period) was not treated separately but substantial differences between the July 1987 and July 1988 collections will be pointed out where they exist. Further subdivisions could be made (ie. various habitat or site groupings in Lavaca Bay) but it was felt that excessive subdivisions would make data interpretations more confusing. It should be pointed out that prior to opening of Cedar Bayou, Mesquite Bay was an isolated estuary situated at a great distance and through a convoluted path from a tidal inlet to the Gulf. After Cedar Bayou was open, Mesquite Bay was a primary bay immediately adjacent to a tidal inlet and San Antonio Bay was more directly influenced by Gulf of Mexico waters.

In part II, densities are compared among sites within each bay system prior to an analysis of salinity effects. These comparisons are made using an ANOVA in a fixed block design with dates or sampling trips as blocking factors to test for differences in density or length among sites. Salinity effects are examined with multiple regression.

PART I.

NURSERY AREA UTILIZATION

RESULTS

Size classes

The separation of size classes by gear can be seen in Table 1. Brown shrimp postlarvae averaged 12-13 mm in plankton catches and average size increased

Table 1. Overall mean length of each species taken in each gear type by bay system. Bay system codes are: LAB = Lavaca Bay, SAB = San Antonio Bay, MSB = Mesquite Bay.

<u>SPECIES</u>	<u>GEAR</u>	<u>BAY SYSTEM</u>		
		<u>LAB</u>	<u>SAB</u>	<u>MSB</u>
Brown Shrimp	Plankton	12.77	12.47	
	Benthic Sled	24.75	19.26	23.10
	Seine	38.66	33.66	33.20
	Trawl	58.53	68.76	-
Spotted Seatrout	Plankton			2.27
	Benthic Sled	16.28	15.08	16.88
	Seine	37.48	22.59	25.92
	Trawl		83.50	-
Bay Anchovy	Plankton	18.70	11.46	19.96
	Benthic Sled	20.79	18.78	14.61
	Seine	23.07	24.74	28.41
	Trawl	34.97	42.30	-
White Shrimp	Plankton	7.92	12.41	
	Benthic Sled	15.41	30.52	32.30
	Seine	30.21	32.33	37.81
	Trawl	67.22	59.81	-
Atlantic Croaker	Plankton	12.78		
	Benthic Sled	19.09	15.38	10.79
	Seine	29.20	18.57	12.05
	Trawl	44.09	45.0	-

approximately 10 mm in the benthic sled (20-25 mm) and another 10 mm in the seine (33-38 mm). Mean size increases another 20 mm (to 58-68 mm) in the trawl collections. Similar size distributions were seen in white shrimp but sizes were more variable among bay systems than for brown shrimp. The mean size of white shrimp postlarvae was smaller than brown shrimp in Lavaca Bay but similar to brown shrimp in San Antonio Bay. Size classes were also clear for the fishes but in most cases the size range was not as great as for shrimp. Bay anchovy showed a 6-8 mm increase from gear to gear in San Antonio Bay but only a 2-3 mm increase in Lavaca Bay. Density of spotted seatrout was relatively low in all but Mesquite Bay but nevertheless, size differences among bays was relatively consistent. Atlantic croaker showed the least consistent pattern in size class changes both within and among bay systems. Atlantic croaker averaged 12.8 mm in the seine in Mesquite Bay but were 29.2 mm in the seine in Lavaca Bay and 18.6 in San Antonio Bay. This difference was due to Atlantic croaker immigrating into the estuary through the tidal passes as postlarvae where large numbers were taken there with the seine while in the upper part of the estuaries large concentrations of these small individuals were not present due to growth and dispersion during transit from tidal passes to upper bays.

Species Accounts

Brown shrimp. Brown shrimp spawn in deep water offshore (Williams 1965) and enter the estuary through tidal passes as postlarvae. They were relatively abundant in all bay systems and in a wide size range. Figures 3 and 4 give the mean density and mean length of brown shrimp by gear. The general pattern is that the highest density for each gear type (ie. for each size class) was in the spring (April-June). This was most obvious in the plankton. Postlarvae, averaging less than 13 mm, were found at densities of 9-11 100m^{-3} in Lavaca Bay and lower San Antonio Bay. Brown shrimp were not picked from the ichthyoplankton samples in Mesquite Bay so their density

BROWN SHRIMP

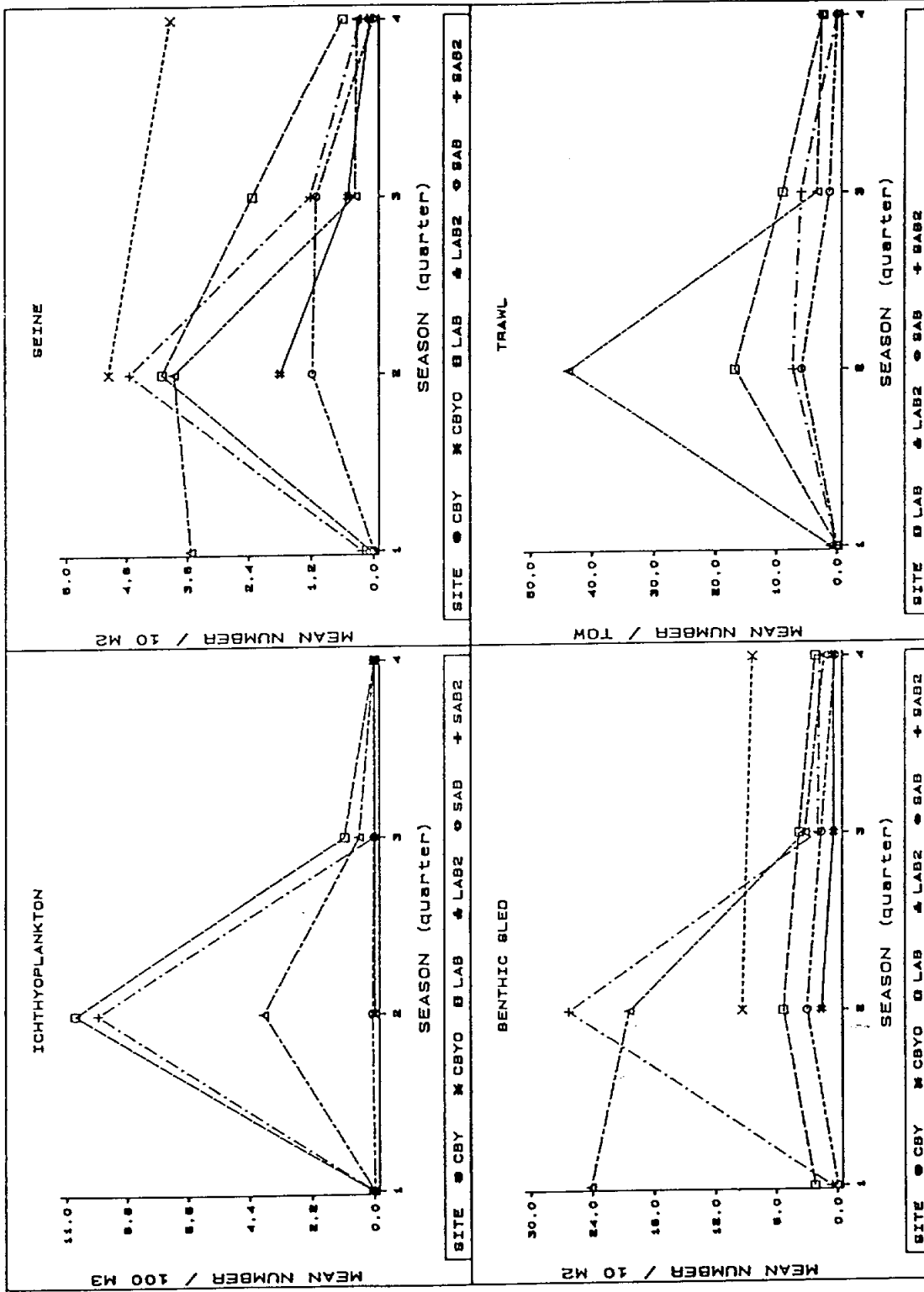


Fig. 3. Mean density by quarter for each site or subsite by gear type for brown shrimp. CBY = Mesquite Bay prior to the opening of Cedar Bayou; CBYO = Mesquite Bay after opening of Cedar Bayou; LAB = Lavaca Bay year-1 (Nov'84-Aug'85); LAB2 = Lavaca Bay year-2 (Oct'85-Aug'86); SAB = upper San Antonio Bay (sites A and B); SAB2 = lower San Antonio Bay (sites C and D). Note that the Y axis scale was allowed to vary among plots to present the maximum amount of detail in each plot.

BROWN SHRIMP

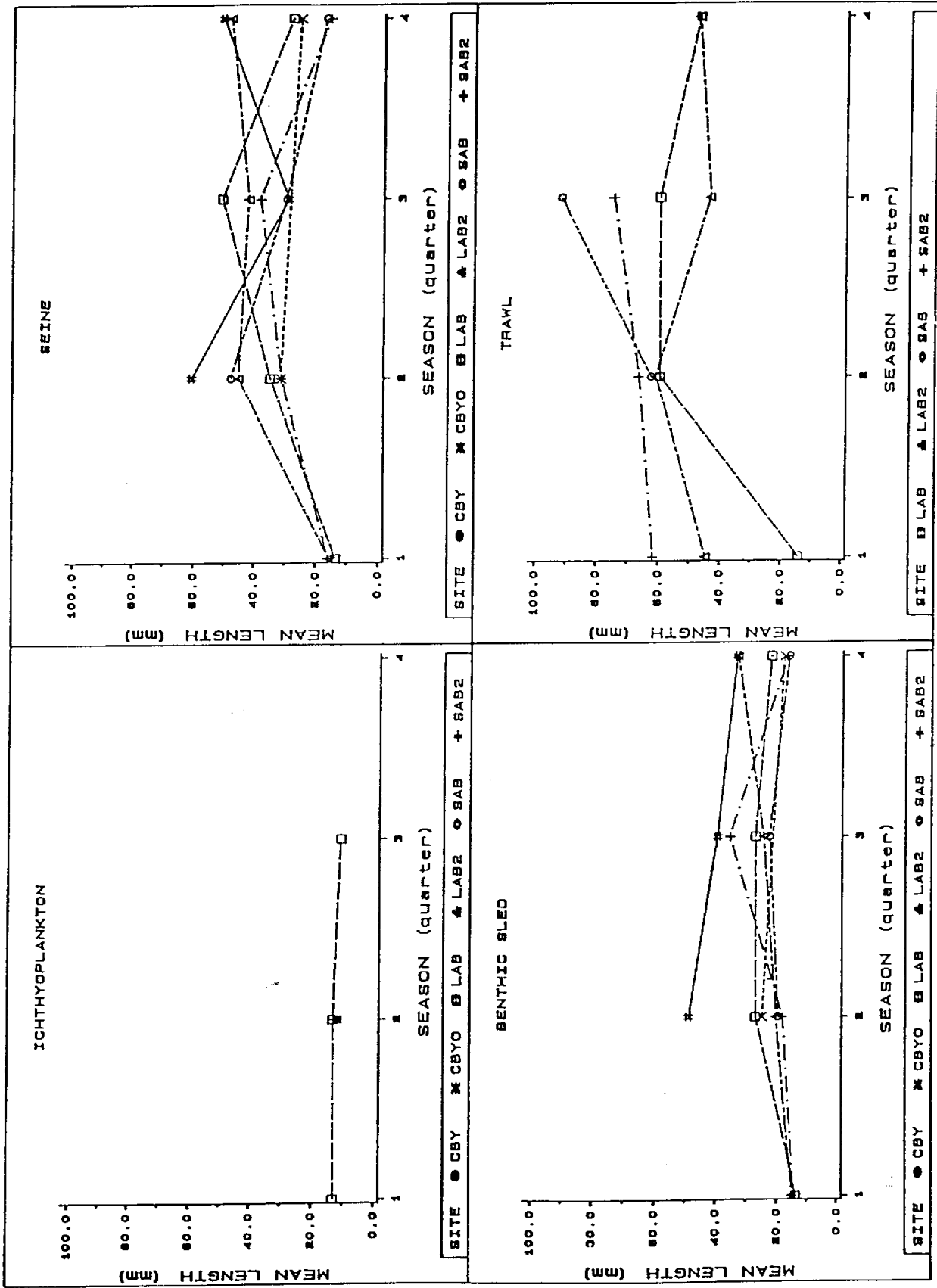


Fig 4. Mean standard length by quarter for each site or subsite by gear type for brown shrimp. See Fig. 3 for details.

there is unknown.

Brown shrimp densities averaged 20-30 10m^{-2} in the spring benthic sled samples in Lavaca Bay year-2 and lower San Antonio Bay. Densities at other sites were generally $<10\ 10\text{m}^{-2}$. Winter densities were all very low except in Lavaca Bay year-2. These high densities of small brown shrimp ($<15\ \text{mm}$) in February (Appendix table 2) may represent annual variability in the peak time of immigration of postlarvae. Upper San Antonio Bay consistently had low densities; only Mesquite Bay prior to opening Cedar Bayou had lower densities for benthic sled collections. The brown shrimp that were caught in Mesquite Bay were quite large ($>40\ \text{mm}$) suggesting its isolation from direct routes of immigration. Densities averaged over all sites within a season can mask quite high densities. Reference to Appendix tables 2-11 shows that densities $>40\ 10\text{m}^{-2}$ were seen occasionally with a maximum of $158.5\ 10\text{m}^{-2}$ at site 623 in Lavaca Bay in April 1986.

Seine and benthic sled collections were always taken at the same site at the same time but brown shrimp catches in the seine were quite low (typically $<5\ 10\text{m}^{-2}$) compared to the benthic sled, suggesting that the sled is more efficient at capturing brown shrimp. Densities from seine collections were more similar among bays than in the sled collections but upper San Antonio Bay still had consistently low densities. Densities in the trawl generally peaked in the spring and were higher in Lavaca Bay both years than in San Antonio Bay.

The general pattern for brown shrimp is that winter densities of all size classes are quite low except for occasional early immigration of postlarvae. Postlarvae were taken in plankton samples in Lavaca Bay and San Antonio Bay at densities 8-10 100m^{-3} in the spring. Typical densities of demersal postlarvae and juveniles along the bay margins were 10-30 10m^{-2} in the spring in benthic sled samples but were much lower in seine samples. Trawl catches of 40-60 mm brown shrimp averaged 5-15 per 3-min. tow in the spring and slightly lower in the fall.

Spotted seatrout. Spotted seatrout are basically estuarine spawners with only limited spawning occurring offshore (Pearson 1929). They were relatively uncommon in all but Mesquite Bay (Figures 5 and 6). We recognized that spotted seatrout are abundant as adults in all Texas bays but our methods do not capture adult fish which attain large size (our upper limit is approximately 100 mm sl).

No larval spotted seatrout were taken in Lavaca or San Antonio Bays. Mesquite Bay catches were very low prior to opening of Cedar Bayou in September 1987. High densities (10-25 100m⁻³) of larval spotted seatrout, averaging 2-3 mm (nl), were taken in April 1988 throughout Mesquite Bay and upper Aransas Bay (Appendix I table 20) but catches were usually zero at other times. Benthic sled catches in Lavaca and San Antonio Bay were low compared to Mesquite Bay. Upper and lower San Antonio Bay catches were generally higher than Lavaca Bay although the only upper San Antonio Bay catches came in July 1988, a period of higher salinity and subsequent to the large April spawn in Mesquite Bay. Although fall catches of spotted seatrout in Mesquite Bay remained relatively high, fall catches in Lavaca and San Antonio Bay were zero as were winter catches in all bays.

Spotted seatrout densities in the seine collections were similar to benthic sled collections and were generally similar in distribution. Lavaca Bay years 1 and 2 had the lowest densities, this is especially noteworthy regarding the higher salinity year 2, suggesting that location, not salinity, is a primary factor in juvenile spotted seatrout distribution. Mesquite Bay had high spring densities which coincided with the big April spawning there but equally high densities were seen the previous fall. As was seen in the sled data, fall densities were essentially zero in Lavaca and San Antonio Bays; the few spotted seatrout caught in Lavaca Bay averaged over 80 mm. Our low catch rate for spotted seatrout compared to other demersal species such as Atlantic croaker (see below) and spot suggest that postlarval and juvenile spotted seatrout are not in the

SPOTTED SEATROUT

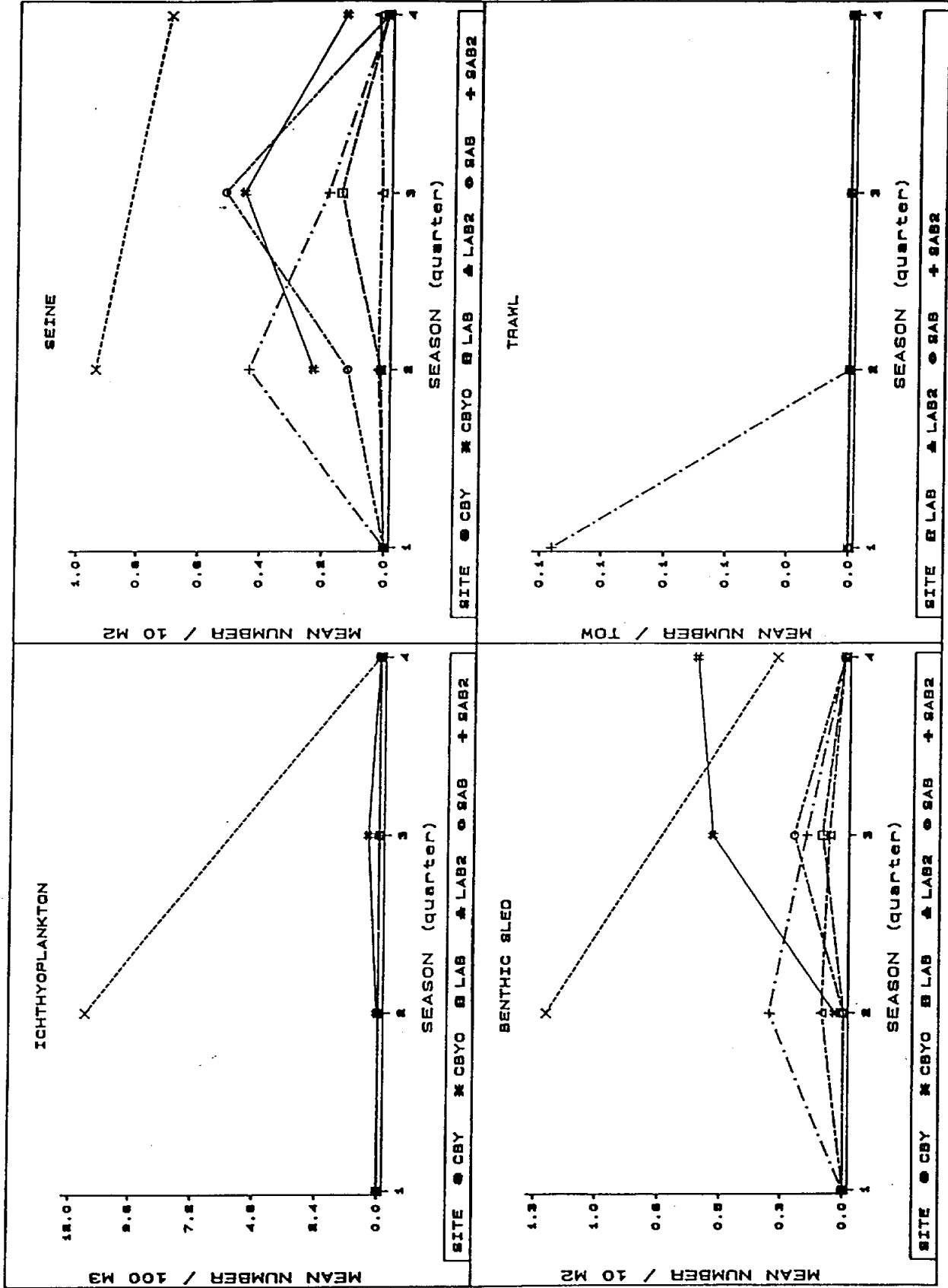


Fig. 5. Mean density by quarter for each site or subsite by gear type for spotted seatrout. See Fig. 3 for details.

SPOTTED SEATROUT

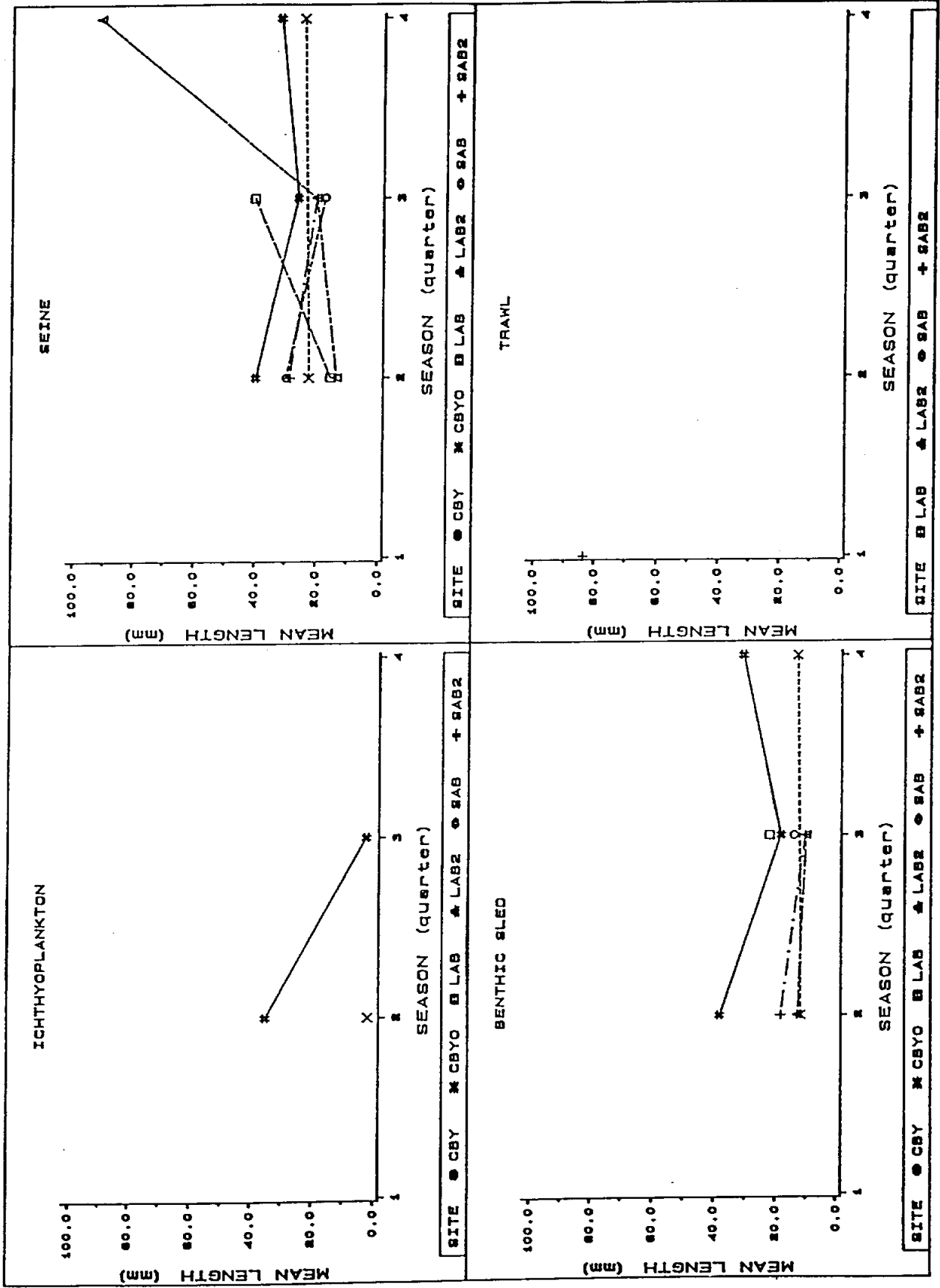


Fig 6. Mean standard length by quarter for each site or subsite by gear type for spotted seatrout. See Fig. 3 for details.

habitat we sampled in Lavaca and San Antonio Bays. Essentially no spotted seatrout were caught in trawl collections.

The general pattern for spotted seatrout in our study was that spawning occurred only in Mesquite Bay and predominately in the spring. Juveniles <30 mm were present ($0.5-1.3$ 10m^{-2}) in Mesquite Bay from spring through fall. They were less abundant ($0.1-0.5$ 10m^{-2}) in San Antonio Bay and only in spring and summer. Spotted seatrout were seldom encountered in Lavaca Bay either year. Juvenile spotted seatrout apparently do not occur on mud bottom in open bay water as only one individual was taken with the trawl.

Bay anchovy Bay anchovy are primarily estuarine spawners with some spawning occurring in near-shore oceanic waters (Hildebrand and Cable 1930). Bay anchovy were quite abundant and wide spread in our collections. Figures 7 and 8 give the mean density and mean length of bay anchovy by gear. The season of highest density varied by gear type reflecting spawning and growth of a short lived species. Extremely high densities of larval bay anchovy were seen in Mesquite Bay in April 1988 and lower San Antonio Bay in July 1988. A mean catch of over 25,000 larvae 100m^{-3} was taken at one site in Mesquite Bay and a mean of over 12,000 larvae 100m^{-3} was taken at station C in San Antonio Bay (Appendix tables 27 and 31). Although the data indicate patchy distribution for bay anchovy larvae, catches of over 5000 100m^{-3} were common throughout Mesquite Bay and northern Aransas Bay on 26 April 1988. In other collections, catches were relatively high ($50-150$ 100m^{-3}) compared to other species throughout all bay systems except upper San Antonio Bay and Lavaca Bay-year 2 where catch rates was quite low (<10 100m^{-3}). Bay anchovy plankton catches were zero in both fall and winter collections.

Densities in benthic sled collections were quite low (generally <1.0 10m^{-2}) compared to some seine catches ($50-60$ 10m^{-2}). This discrepancy was due primarily to

BAY ANCHOVY

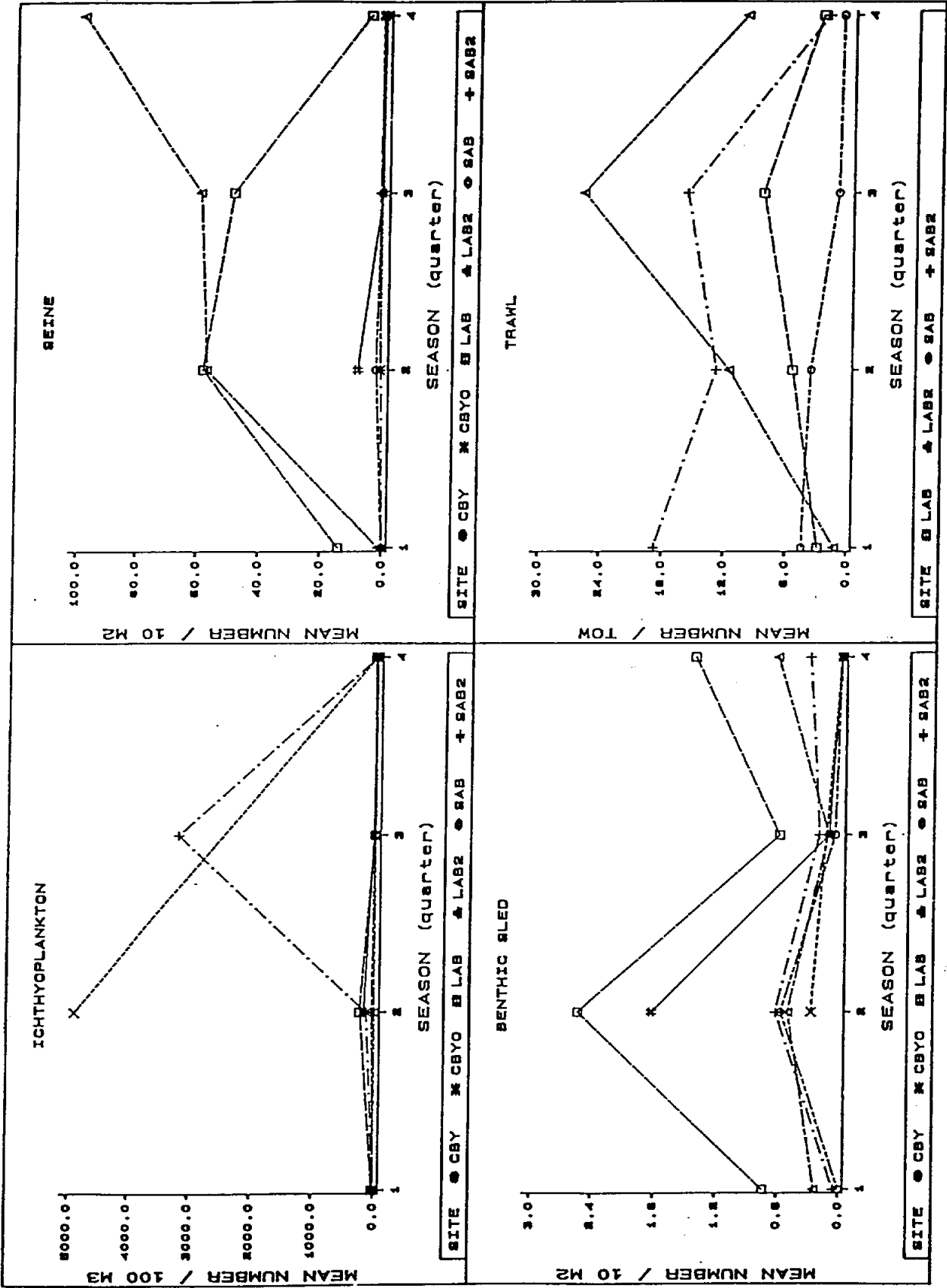


Fig 7. Mean density by quarter for each site or subsite by gear-type for bay anchovy. See Fig. 3 for details.

BAY ANCHOVY

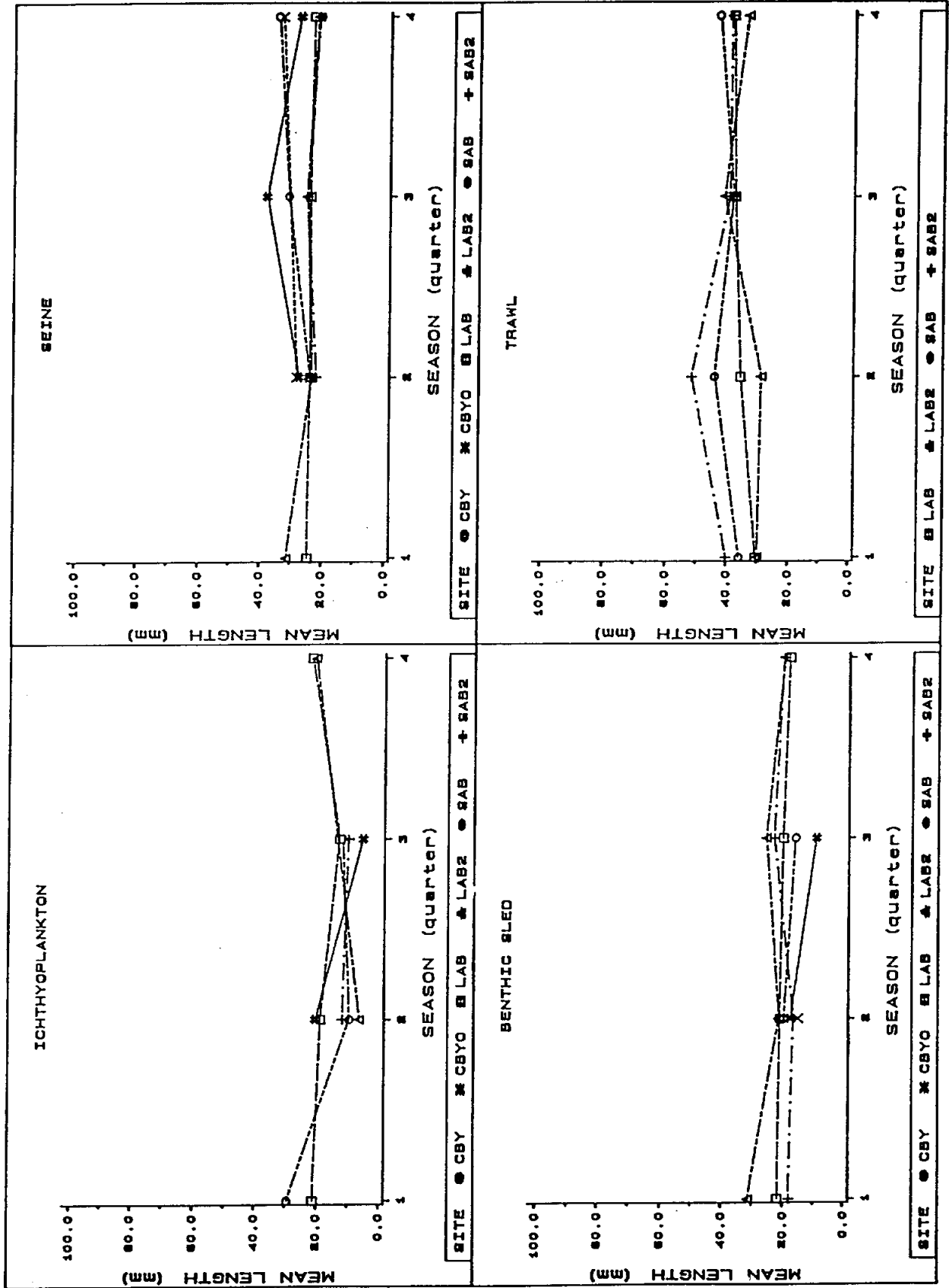


Fig 8. Mean standard length by quarter for each site or subsite by gear type for bay anchovy. See Fig. 3 for details.

net avoidance in the sled. Bay anchovy are pelagic swimmers and even 15-30 mm bay anchovy, which were the typical size taken in the sled, could probably avoid it in most instances. Net avoidance by <50 mm bay anchovy should not be a problem with a 9 m bag seine and the seine numbers should reflect true, albeit patchy, density. The patchy distribution of pelagic schooling fishes like bay anchovy do create high within-sample variances.

Bay anchovy densities in seine collections were substantially higher in spring and summer Lavaca Bay collections (both year 1 and 2) than in any other sites. Mesquite Bay and San Antonio Bay densities were quite low despite the high larval densities there in the spring. Winter densities were low at all sites with one exception. There was a large discrepancy in Lavaca Bay year-1 and year-2, in that year-1 was quite low (<10m⁻²) while year-2 was high (>90 10m⁻²). The size range of these juvenile bay anchovy (20-24 mm) was similar in both years and generally smaller than those few individuals taken at other sites in the fall. Fall year-1 followed a period of relatively high salinity while fall year-2 followed a period of relatively low salinity. Trawl densities ranged from 5-25 per tow in all samples but there was no clear seasonal or site pattern.

The general pattern for bay anchovy was that spawning occurred primarily in the spring although some spawning occurred in the summer as well. Larval bay anchovy were found throughout the study area in relatively large numbers but by far the highest densities were seen in lower San Antonio Bay and in Mesquite Bay in the spring and summer of 1988 when over 10,000 larvae 100m⁻³ were caught at several sites. The benthic sled proved to be poor at catching juvenile bay anchovy probably due to gear avoidance. Seine collections showed densities of 50-60 10m⁻² along shorelines in Lavaca Bay in spring and summer of both years and lower densities at other sites. Fall and winter densities were relatively low at all sites except Lavaca Bay year-2 where mean densities were >90 10m⁻². Trawl collections were highly variable but averaged about 10

bay anchovy per 3-min tow.

White shrimp White shrimp spawn offshore in 10-15 fathoms (Heegaard 1953) and enter the estuary through tidal passes as postlarvae. Their early life-history is similar to brown shrimp but they spawn in shallower water (Williams 1965) and probably enter the estuaries at a smaller size. Mean size and mean length of white shrimp taken in this study are shown in Figures 9 and 10. There is a seasonal shift in maximum densities among gear types reflecting immigration and growth of the cohort. Seasonal distribution of white shrimp in plankton samples varied by site. Maximum densities were seen at lower San Antonio Bay stations in the spring where mean densities were 11-12 100m^{-3} . This may be somewhat misleading since there was only one spring collection in San Antonio Bay and these high densities were due to very high densities only at site D (Appendix I, table 38). White shrimp densities in most other San Antonio Bay plankton collections were at or near zero. Plankton catches of 8-10 mm postlarval white shrimp in Lavaca Bay year-1 averaged 1.0-2.0 100m^{-3} in both spring and summer but they were taken only in summer at those densities in year 2. White shrimp were not picked from the plankton in Mesquite Bay so their densities there are unknown.

Benthic sled densities were higher in Lavaca Bay in both years than in either San Antonio Bay or Mesquite Bay. Densities in Lavaca Bay averaged 5-8 10m^{-2} in both spring and summer in year 1 and 16-17 10m^{-2} in year 2 but only in summer. Spring densities in Lavaca Bay year-2 were zero. San Antonio Bay and Mesquite Bay were zero in winter and spring and 0.5-2.0 10m^{-2} in both summer and fall. Densities were uniformly low but >0 at all sites in the fall. Mean lengths were uniform in all seasons, ranging from 15-25 mm except in lower San Antonio Bay and Mesquite Bay where they ranged from 30-70 mm. It is of interest to see in Appendix I table 39 that both densities (1.0-1.25 10m^{-2}) and lengths (42.7-47.4 mm) were similar when comparing

WHITE SHRIMP

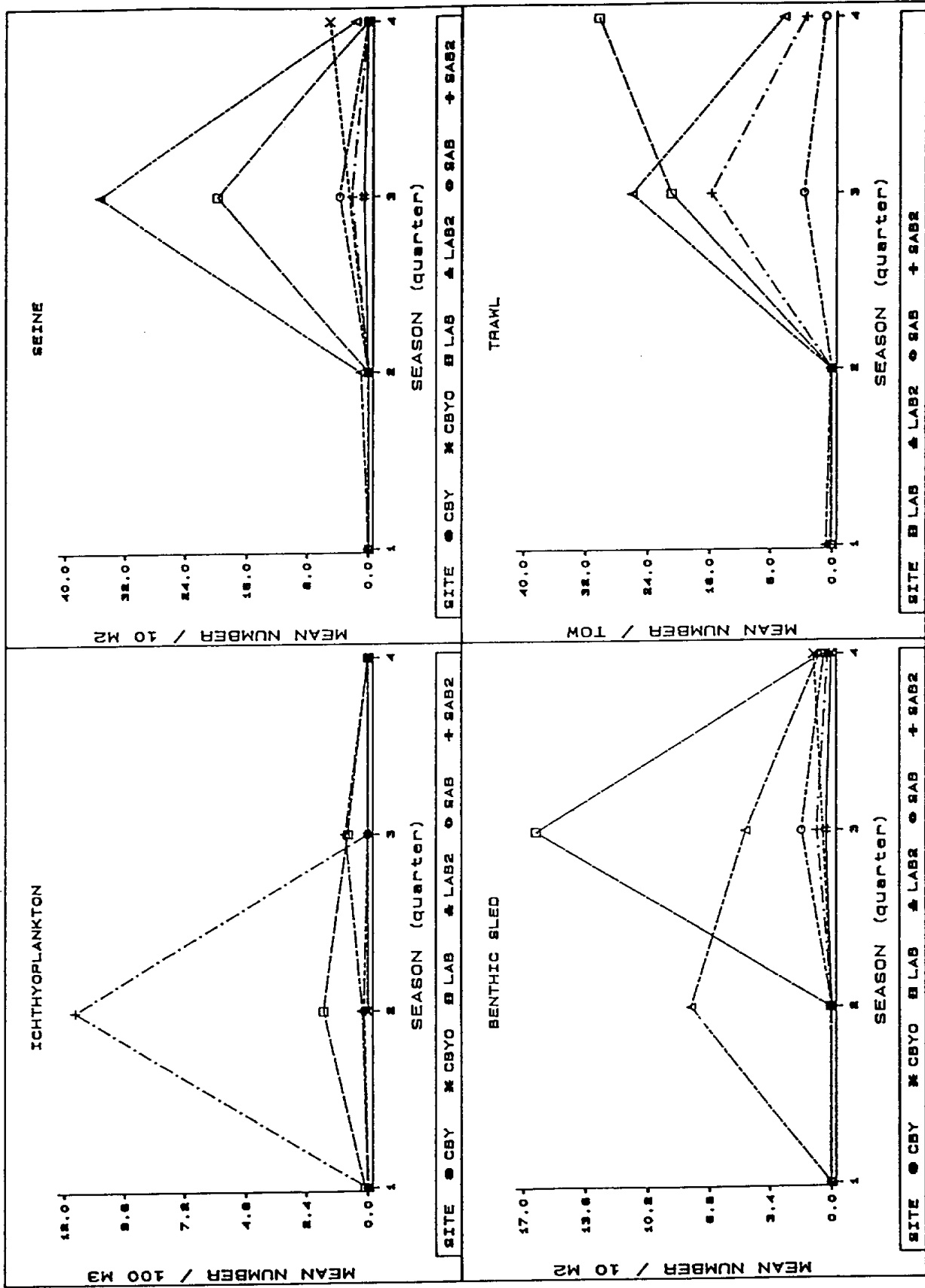


Fig. 9. Mean density by quarter for each site or subsite by gear type for white shrimp. See Fig. 3 for details.

WHITE SHRIMP

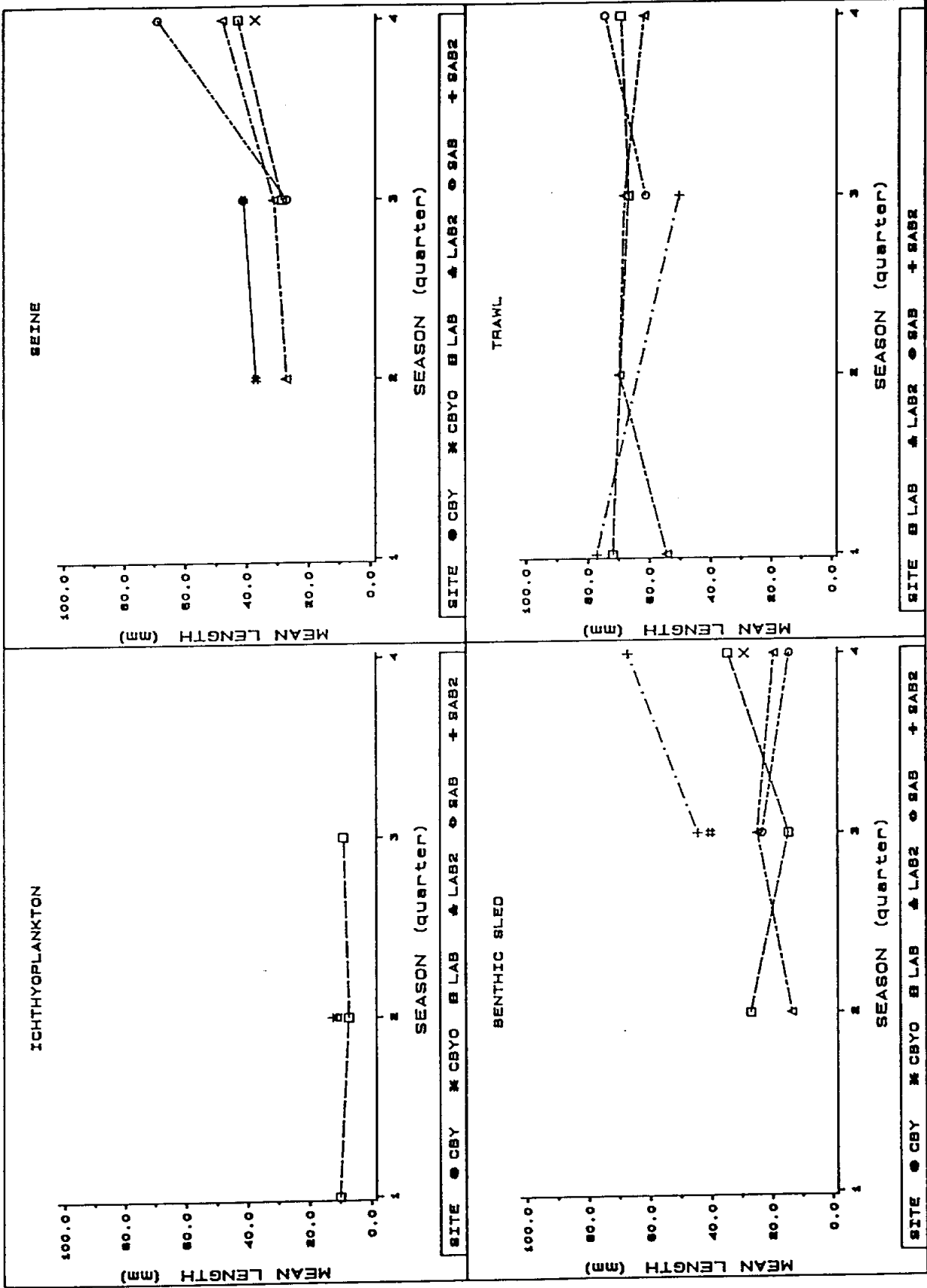


Fig 10. Mean standard length by quarter for each site or subsite by gear type for white shrimp. See Fig. 3 for details.

lower San Antonio Bay collections from low salinity July 1987 and high salinity July 1988.

Seine collections of white shrimp were generally highest in all bays in summer and higher in Lavaca Bay both years than in other bay systems. Densities were near zero in winter and spring. Since a larger size range of white shrimp are taken with the seine than with the benthic sled there is some indication of growth seen in the length data. White shrimp averaged 25-30 mm in the spring and 40-45 in the fall in Lavaca Bay. Mesquite Bay white shrimp averaged somewhat larger prior to opening Cedar Bayou and were slightly smaller after Cedar Bayou was opened.

Trawl catches of white shrimp were generally higher in summer than other seasons except for Lavaca Bay year-2 when catches were highest in the fall. Trawl catches were relatively higher in the fall compared to other gear types but since winter and spring catches were essentially zero, emigration to the Gulf is completed prior to January. Mean length of trawl caught white shrimp was quite uniform and averaged 50-80 mm in all seasons with the exception of San Antonio Bay in the fall when several individuals in excesses of 150 mm were taken, producing a fall average of 145 mm.

The general pattern for white shrimp was that highest densities were seen in the spring and summer with lowest densities in the winter. Immigration of postlarvae from offshore was concentrated in the spring but continued in smaller numbers through the summer. White shrimp averaging 7-10 mm were taken consistently taken in Lavaca Bay at densities of 1.0-2.0 100m^{-3} but one large catch of >10 100m^{-3} was seen in lower San Antonio Bay. Both benthic sled and seine catches generally peaked in the summer and were higher in Lavaca Bay in both years than at other sites. Mean lengths ranged from 20-40 mm but averaged 40-60 mm in fall seine catches. Trawl catches of 50-80 mm white shrimp peaked in the summer but remained relatively high into the fall and were more uniform among bays than catches from other gear types.

Atlantic croaker Atlantic croaker spawn offshore in the fall and winter in the western North Atlantic and the Gulf of Mexico (Pearson 1929, Hildebrand and Cable 1930). The mean density and mean length of Atlantic croaker taken in our study are shown in Figures 11 and 12. Plankton catches of Atlantic croaker were zero in both Mesquite Bay and San Antonio Bay but postlarval Atlantic croaker were taken regularly in plankton samples in Lavaca Bay year-1 but rarely in year 2. Winter densities averaged $15 \text{ } 100\text{m}^{-3}$ but this was due to one remarkably high catch of $198.8 \text{ } 100\text{m}^{-3}$ at station 623 in January (Appendix I table 45). Mean length in both fall and winter plankton catches averaged 12-14 mm.

Atlantic croaker were taken with the benthic sled in all bay systems and in similar densities. Densities were generally highest and mean sizes smallest for all bays in the fall with the higher densities ranging from 5-10 10m^{-2} for fish in the range of 10-20 mm. Winter densities ranged from 2-5 10m^{-2} for fish of 20-25 mm. Summer densities were generally zero in benthic sled catches.

Seine catches were less variable than benthic sled catches and averaged 2-5 10m^{-2} in most bay systems in all but the summer when catches were near zero. The smallest fish (10-20 mm) were taken during initial immigration into the estuaries and growth of the cohort was seen in size increases to 20-25 mm in winter and to 30-50 mm in the spring. As was seen with the brown shrimp data, a few very large catches can be masked by averaging a large number of samples. A mean density of 98.8 Atlantic croaker 10 m^{-2} was seen at station 623 in Lavaca Bay in April 1985 but more remarkable was a mean density of $419 \text{ } 10\text{m}^{-2}$ in Cedar Bayou in October 1987, just one month after Cedar Bayou was reopened.

Trawl catches were generally similar among bays except during winter. Summer and fall catches averaged less than 20 per tow while spring catches averaged 50-80 per tow. Winter catches averaged 50-90 tow in all but Lavaca Bay year-2 where they were about 20 per tow. Size changes were similar to those seen in the seine data but were

ATLANTIC CROAKER

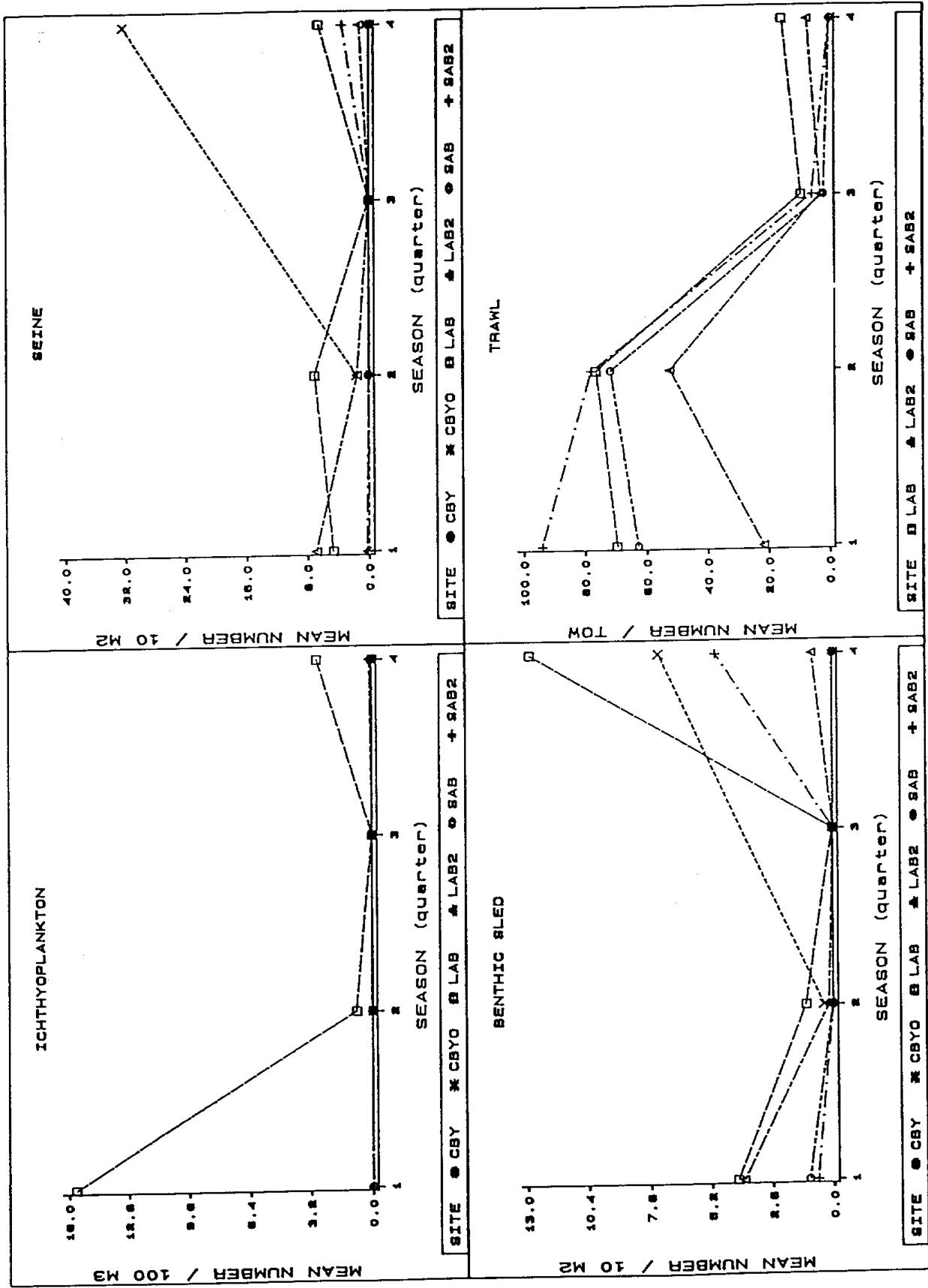


Fig 11. Mean density by quarter for each site or subsite by gear type for atlantic croaker. See Fig. 3 for details.

ATLANTIC CROAKER

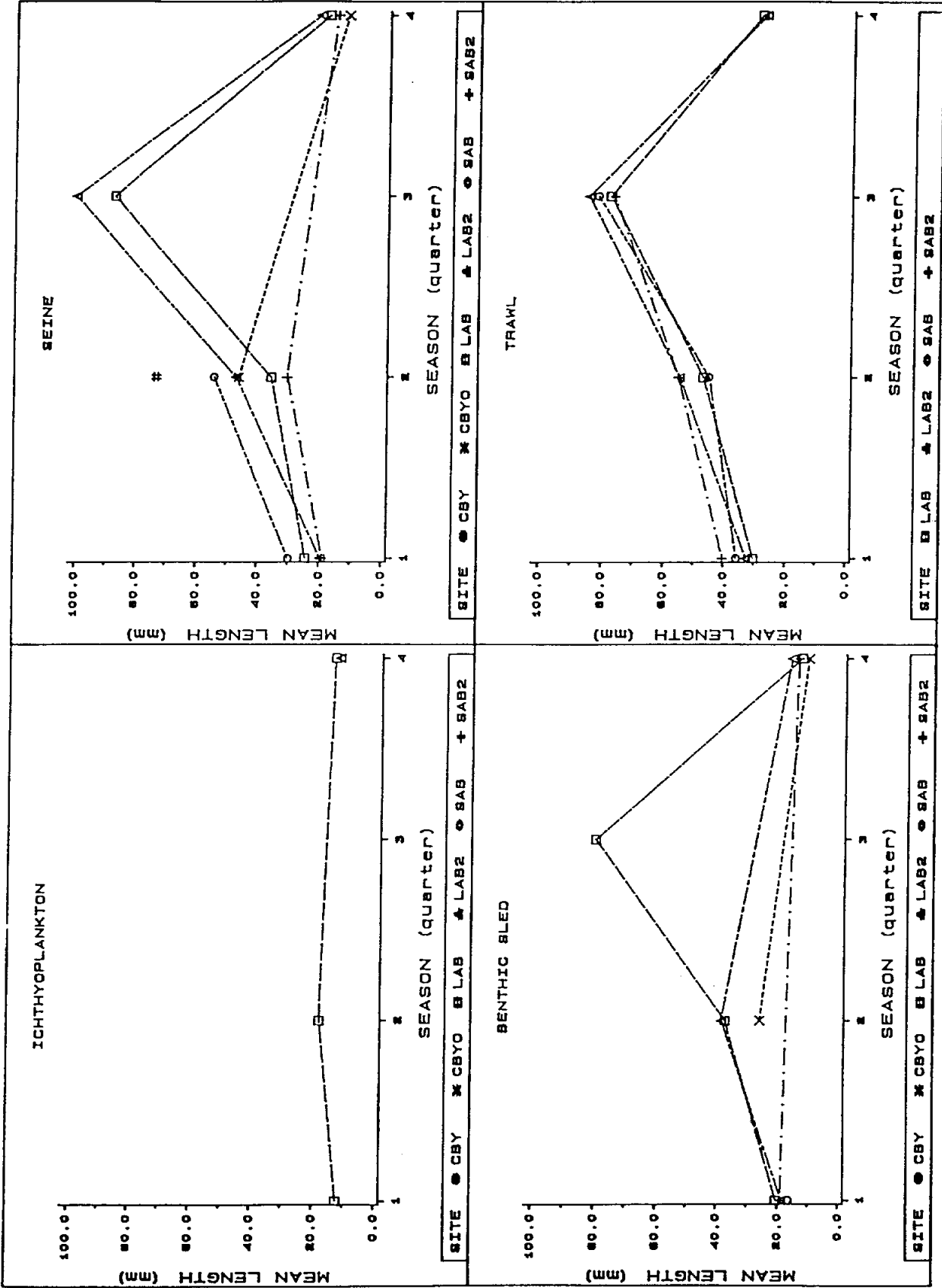


Fig 12. Mean standard length by quarter for each site or subsite by gear type for atlantic croaker. See Fig. 3 for details.

slightly larger, reflecting the size selectivity of each gear.

The general pattern for Atlantic croaker was that initial immigration to the bays occurred in the fall when 12-14 mm Atlantic croaker were found in Lavaca Bay year-1 but Atlantic croaker were not otherwise taken in the plankton. Trawl catches reveal that 25-35 mm fish were present during the same period. The highest catches of Atlantic croaker were typically in Lavaca Bay, especially in year 1, but high densities were found in all bays, even in upper San Antonio Bay where densities of other species were generally low. Summer densities were low in all gear types and the few fish taken then were >70 mm.

RELATIONSHIP TO OTHER STUDIES

Fish densities are difficult to quantify in shallow estuarine habitats (Shenker and Dean 1979, Bozeman and Dean 1980) and density estimates on a per-unit-area basis are seldom presented. Comparisons among studies are complicated by a variety of effects (Rogers *et al.* 1984) but useful, though cautions comparisons can be constructively made with those few density estimates available in the literature. Standing crops at peak recruitment periods will be taken to suggest maximum utilization levels within each area to be compared. Our samples were from fixed stations rather than a random or randomly stratified sampling scheme so our density estimates do not represent bay-wide densities but are valid estimates for the sites we sampled. Most studies cited below are also fixed site sampling and as such we are making comparisons among like quantities.

Brown shrimp densities averaged 20-30 10m^{-2} in benthic sled samples from Lavaca Bay year-2 and lower San Antonio Bay during the spring. These numbers are higher than those from Cape Fear River, North Carolina where Weinstein (1979) reported 5-12 10m^{-2} in *Spartina* marsh tidal creeks and slightly higher than those of

Zimmerman *et al.* (1984) who found 6-23 10m^{-2} on non-vegetated bottom adjacent to *Spartina* marsh. Approximately 88% of their brown shrimp were <40 mm and thus are equivalent to our benthic sled catches. Our density estimates are low compared to estimates from within *Spartina* marsh by Zimmerman *et al.* (1984) of 75-166 brown shrimp 10m^{-2} using a drop-net sampler. Brown shrimp densities in upper San Antonio Bay averaged <5 10m^{-2} and are lower than those reported above. Texas Parks and Wildlife Department (TPWD) conducts regular surveys with an 18.9 m bag seine throughout the Texas coast and reports the catches on a bay-system basis by month. Their data (Hammerschmidt and McEachron 1986, Meador *et al.* 1988) indicated higher April-June brown shrimp catches (0.9-2.2 10m^{-2} in 1985 and 0.2-2.4 10m^{-2} in 1987) in the Matagorda Bay system (which includes Lavaca Bay) than in San Antonio Bay (0.9-1.3 10m^{-2} in 1985 and <0.1-0.4 10m^{-2} in 1987). These densities are similar to our estimates of 1.0-2.0 10m^{-2} in upper San Antonio Bay and pre-opening Mesquite Bay but lower than our densities of 3.5-5.5 10m^{-2} in Lavaca Bay both years, lower San Antonio Bay, and post-opening Mesquite Bay from seine collections. The mean length of brown shrimp in their collections was typically 50-70 mm which is in the upper end of the size range taken by our smaller mesh bag seine.

There are few density estimates for juvenile spotted seatrout. Breuer (1970) found only 21 juvenile spotted seatrout in samples which covered 2.95 acres in the Upper Laguna Madre, Texas. Hammerschmidt and McEachron (1986) reported <0.001 10m^{-2} in both Matagorda and San Antonio Bays in 1985 and the few fish they caught averaged >150 mm. Our estimate of 0.5-1.3 10m^{-2} for 10-30 mm spotted seatrout from both benthic sled and seine collections in Mesquite Bay is fairly high (though much less than Atlantic croaker) and indicates good nursery habitat there. Both upper and lower San Antonio Bay had densities of 0.1-0.5 10m^{-2} but Lavaca Bay densities both years were generally <0.1 10m^{-2} and indicates that Lavaca Bay does not serve as an important nursery for spotted seatrout.

The only density estimates we found for bay anchovy were from Adams (1976) using a 9 m² drop-net sampler in eel grass beds in Chesapeake Bay. He found 4-49 fish 10m⁻² which is less than our estimates of 50-90 10m⁻² based on seine samples in spring through fall.

White shrimp postlarvae and early juveniles were found at average densities of 10-20 10m⁻² in Lavaca Bay whereas both upper and lower San Antonio Bay densities were 1-2 10m⁻² in July to September. Weinstein (1979) found white shrimp at densities of 1-3 10m⁻² during July and August in *Spartina* marsh tidal creeks in North Carolina. TPWD estimates (Hammerschmidt and McEachron 1986, Meador *et al.* 1988) of 40-80 mm white shrimp densities for Matagorda Bay (0.6-1.6 10m⁻² in 1985 and 0.5-2.7 10m⁻² in 1987) and San Antonio Bay (0.02-0.07 10m⁻² in 1985 and 0.06-0.2 10m⁻² in 1987) are much lower than our seine catches of 20-35 10m⁻² in Lavaca Bay both years.

Atlantic croaker densities averaged 5-10 10m⁻² in both Lavaca and San Antonio Bays and individual station densities ranged as high as 15-35 10m⁻² from November through April. This compares well with densities of 3-27 10m⁻² in a Georgia estuary (Rogers *et al.* 1984) during the same season.

CONCLUSIONS

The bays studied in this investigation represent a wide range of habitats which are potential nursery areas for estuarine dependent fishes and invertebrates. The species composition and seasonal trends observed in this study were similar to those observed in other studies of nursery habitat utilization along the Gulf of Mexico and Atlantic coast of the U.S. (Weinstein 1979, Rogers *et al.* 1984). An examination of standing crop at peak recruitment of five species relative to values given for other primary nursery habitats shows that the Lavaca Bay and river delta are primary nursery for four of the five species examined. Only spotted seatrout was found not to use the

area as nursery ground. This suggest that Lavaca Bay and the river delta are important nursery areas for numerous fishes and shellfish.

San Antonio Bay was affected by a large flood event during much of the study period there and the potential implications of that on fish distributions will be addressed in Part II of this report. If the potential impact of the high runoff were ignored, our data would suggest that upper San Antonio Bay was not an important nursery area for most species but the conditions encountered during our study do not allow us to fairly evaluate the nursery value of San Antonio Bay except to state that it is not a good nursery area during extremely high flow periods.

PART II.
INFLOW AND SALINITY EFFECTS
RESULTS AND DISCUSSION

Collection and sample processing methods are given in Part I of this report. Analytical methods for the salinity analysis are given below.

Most species of interest in this study are seasonal in their occurrence. For all but a few species we sample only the early life-history stages and their time of occurrence reflects the spawning period of each species. All analysis of density relationships with abiotic factors were done on data which represented the period of high density for each species. The "high density" periods were chosen subjectively by looking at plots of fish density averaged over all stations in each bay by date and determining the season or period of highest occurrence. In most species, different size classes were vulnerable to each of the four types of collecting gears used in this study. The effect of growth during the period of residency meant that for most species, different periods were selected for each gear. For example, Atlantic croaker were considered in the months of November - March for the plankton samples; November - April in the benthic sled; November - May in the seine; and February - June for the trawl. These analysis were done on the same five species examined for nursery area utilization reported in part one of our report. They are: white shrimp (*Penaeus setiferus*), brown shrimp (*P. aztecus*), bay anchovy (*Anchoa mitchilli*), Atlantic croaker (*Micropogonais undulatus*), and spotted seatrout (*Cynoscion nebulosus*).

Analysis of distribution and abundance of each species was done in the following sequence. First, differences were tested among stations within each bay to determine whether significant habitat differences existed within a bay. This analysis was done with two-way ANOVA on station and collecting trip and were run separately for Lavaca and San Antonio Bays. Data were transformed by square root after 0.05 was added to each observation. Square root is the appropriate transformation for count data which usually

has a Poisson distribution (Sokal and Rohlf 1981). Analysis of the residuals following the ANOVA showed that the transformed data generally met the assumptions of analysis of variance. Where ANOVA showed significant station effects, a Tukey's Studentized Range Test was used to determine which station means were significantly different.

Next, differences were tested among bays with a one-way ANOVA of square root transformed densities to determine whether significant intrabay differences existed which could confound the salinity analysis. These analysis included Mesquite Bay data and comparisons were made among: Lavaca Bay year 1 (Nov. 1984 - Aug. 1985); Lavaca Bay year 2 (Oct. 1985 - Aug 1986); San Antonio Bay; Mesquite Bay prior to opening Cedar Bayou; and Mesquite Bay after Cedar Bayou was opened. Again, Tukey's Studentized Range Test was used to show significant differences among "bay" means. Salinity-nekton relationships were analyzed with stepwise multiple regression of square root transformed densities with bay system and salinity as regressors. Bay system (as defined above) was included to take the significant among-bay differences into account in analyzing salinity effects. Finally, the relationship of river inflow to nekton density was analyzed by linear regression of square-root transformed density with the average inflow of the 15 days preceding the sample date.

Density Differences Within Bays

Station locations are shown in Figures 1 and 2 of Part I of this report. The stations in Lavaca Bay can be divided into three habitat groups. For trawl and ichthyoplankton stations these groups are: tertiary bays or lakes with narrow connections to the river or bay proper (stations 603, 613, and 623); river stations in the Lavaca River channel (stations 45 and 65); and bay stations in Lavaca Bay (stations 85 and 633). For seine and benthic sled collections which are taken along shorelines, the groupings are essentially the same except for station 623 which was along the bay

shoreline just outside the entrance to the tertiary lake and is properly a bay station and 85 which was located right at the mouth of the Lavaca River and is essentially a river site. The San Antonio Bay stations are not as easily categorized but differ mainly in salinity and the presence or absence of seagrass at the shoreline sites. Shoreline sites A and D were vegetated with *Ruppia* seagrass, at least in the summer months, while B and D were unvegetated sand and shell bottom. For all gear types, stations A and B were lower salinity and C and D were relatively higher salinity. Salinities at each station for each collecting trip are given in Table 1.

Significant differences in density of a given species among stations within each bay could indicate either a response to salinity gradients or habitat selection. The ANOVA results for all five species in all gear types were consistently the same: differences among stations as well as the station x trip interaction were highly significant (Table 2). The analysis of only high density periods for each species successfully produced non-significant trip effects in a few cases but there was typically a significant difference among trips as well. Tukey's Studentized Range Test showed some interesting significant differences among stations but the persistent station x trip interaction makes interpretation of these differences difficult or impossible.

Figures 1-3 show density at each station for each trip for selected species/gear combinations and illustrate the impossibility of making meaningful interpretation of station differences in light of the station x trip interaction. Figure 1 illustrates a typical "worst case" scenario. In the Atlantic croaker seine data for Lavaca Bay, station differences were highly significant but the Tukey's test (Table 2) did not show a clear difference among station means. Figure 1 shows almost random variation in location of highest and lowest abundance among stations. This situation was typical of those significant station differences where the Tukey's test did not show clear cut, non-overlapping differences among stations.

Table 1. Surface salinities (ppt) at each station on each collecting date for each bay system.

Lavaca Bay

<u>DATE</u>	<u>LAB45</u>	<u>LAB603</u>	<u>LAB613</u>	<u>LAB623</u>	<u>LAB633</u>	<u>LAB65</u>	<u>LAB85</u>
11/27/84	2.2	2.7	6.8	7.9		3.1	5.0
01/22/85	0.2	0.0	3.6	10.9		0.7	11.8
03/06/85	1.0	0.5	2.5	4.1	6.4	0.5	5.0
04/03/85	3.3	0.5	0.8	1.4	1.0	0.5	1.8
05/07/85	0.2	0.3	2.5	1.4	0.7	0.7	3.7
06/06/85	0.7	0.9	1.9	5.7	8.0	2.5	9.6
07/16/85	0.6	1.3	7.6	8.3	6.3	2.3	8.9
08/14/85	3.2	5.1	14.4	14.4	13.7	10.3	16.6
10/23/85	4.4	9.9	16.1	19.7	16.0	6.9	20.5
12/03/85	0.9	1.1	4.9	8.1	8.3	1.4	8.2
02/05/86	5.3	8.7	13.6	10.6	6.2	8.7	13.1
04/08/86	13.4	17.2	20.9	24.2	23.2	16.1	23.9
06/03/86	0.6	7.6	16.4	20.3	19.1	1.0	18.9
08/05/86	3.9	3.9	10.9	9.8	8.9	9.4	11.0

San Antonio Bay

<u>DATE</u>	<u>SABA</u>	<u>SABB</u>	<u>SABC</u>	<u>SABD</u>
11/18/86	5.0	8.7	13.9	10.0
01/26/87	0.3	1.0	5.0	2.0
03/03/87	0.1	0.9	8.0	12.0
04/06/87	0.5	3.1	5.0	15.0
06/02/87	3.0	5.0	5.9	7.0
07/14/87	0.3	0.2	1.1	0.6
07/01/87	15.3	21.0	27.5	26.4

Table 1. (continued)

Mesquite Bay

<u>DATE</u>	<u>CBYA</u>	<u>CBYB</u>	<u>CBYC</u>	<u>CBYD</u>	<u>CBYE</u>	<u>CBYF</u>
07/01/86	25.9	29.0	30.0	0.0		
08/01/86	37.0	35.0	35.0	35.0		
08/01/86	31.0	35.0	32.0	32.0		
10/01/86	19.0	19.0	20.0	17.0		
05/01/87	11.0	12.0	12.0	13.0		
06/01/87	4.0	8.0	8.0	8.0		10.0
06/01/87	2.0	6.0	8.0	5.0	3.0	3.2
07/01/87	4.0	5.0	6.0	5.0	2.2	4.6
09/01/87	9.5		33.4	13.0		
10/01/87	5.0		24.6	6.7		
10/01/87	10.0		33.0	21.0	12.0	18.0
10/01/87	15.0		33.0	23.0		
11/01/87	18.0		22.0	18.0		
12/01/87	18.0		19.0	18.0	18.0	15.0
04/01/88	24.0		0.0	0.0	26.0	27.0
06/01/88	26.0	33.0	35.0	32.0	28.1	29.5

Table 2. Results of two way ANOVA on station and selected dates for each of the five species in Lavaca Bay and San Antonio Bay. "S X T" is the station by trip interaction term. In the Tukeys Studentized Range Test, "Sqrt(mean)" are the means of the transformed values. Station means not connected by the same line are significantly different .

LAVACA BAY												
Brown Shrimp												
		df	F	P < f	Tukey's Studentized Range Test							
Trawl	S X T	24	2.17	0.0065								
	Trip	6	11.67	0.0001	Station	613	623	603	633	85	65	45
	Station	6	6.05	0.0001	Sqrt(mean)	11.2	11.1	5.6	5.5	5.1	4.4	1.2
Seine	S X T	30	7.40	0.0001								
	Trip	6	2.47	0.0467	Station	613	85	603	65	623	633	45
	Station	6	26.75	0.0001	Sqrt(mean)	3.6	3.4	3.4	1.7	1.6	1.5	1.3
Sled	S X T	6	5.26	0.0001								
	Trip	6	28.60	0.0001	Station	623	85	613	65	603	45	633
	Station	6	8.15	0.0001	Sqrt(mean)	6.2	4.9	4.3	4.2	3.2	3.0	2.6
Plankton	S X T	6	2.56	0.0693								
	Trip	6	3.61	0.0784	Station	623	85	633	613	65	603	45
	Station	6	8.31	0.0006	Sqrt(mean)	10.2	6.0	5.4	4.6	0.6	0.0	0.0
White Shrimp												
		df	F	P < f	Tukey's Studentized Range Test							
Trawl	S X T	29	11.02	0.0001								
	Trip	5	45.91	0.0001	Station	633	603	45	65	623	613	85
	Station	6	10.27	0.0001	Sqrt(mean)	4.4	4.2	3.8	3.5	3.5	3.3	2.4
Seine	S X T	24	6.35	0.0001								
	Trip	4	15.21	0.0001	Station	613	603	65	623	85	45	633
	Station	6	84.42	0.0001	Sqrt(mean)	7.0	1.9	1.3	0.9	0.8	0.8	0.6
Sled	S X T	24	2.67	0.004								
	Trip	4	7.78	0.0001	Station	613	65	85	623	633	45	603
	Station	6	9.22	0.0001	Sqrt(mean)	4.0	3.2	1.3	1.3	1.1	1.1	0.8
Plankton	S X T	30	1.95	0.0229								
	Trip	5	1.69	0.1583	Station	85	623	633	603	45	65	613
	Station	6	4.40	0.0015	Sqrt(mean)	1.2	1.0	0.9	0.0	0.0	0.0	0.0

Table 2. (continued)

Bay Anchovy

		df	F	P < f	Tukey's Studentized Range Test							
Trawl	S X T	60	2.27	0.0001								
	Trip	10	8.43	0.0001	Station	65	85	613	45	603	633	623
	Station	6	0.80	0.5728	Sqrt(mean)	2.4	2.1	2.0	1.9	1.9	1.7	1.7
Seine	S X T	60	40.90	0.0001								
	Trip	10	48.65	0.0003	Station	603	65	45	613	85	623	633
	Station	6	78.11	0.0001	Sqrt(mean)	8.4	7.3	6.2	4.8	4.3	4.0	3.3
Sled	S X T	60	0.96	0.0005								
	Trip	10	1.53	0.0007	Station	85	45	65	623	633	613	603
	Station	6	0.68	0.1729	Sqrt(mean)	0.8	0.6	0.5	0.3	0.3	0.3	0.3
Plankton	S X T	24	17.22	0.0001								
	Trip	4	117.9	0.0001	Station	633	623	85	603	45	613	65
	Station	6	37.12	0.0001	Sqrt(mean)	13.3	11.4	9.1	3.8	2.4	2.2	2.2

Atlantic Croaker

		df	F	P < f	Tukey's Studentized Range Test							
Trawl	S X T	35	3.37	0.0001								
	Trip	6	24.78	0.0001	Station	633	603	623	613	85	65	45
	Station	6	30.42	0.0001	Sqrt(mean)	9.9	9.9	9.1	9.1	7.4	4.0	2.9
Seine	S X T	35	3.55	0.0013								
	Trip	6	4.15	0.002	Station	613	603	623	633	45	85	65
	Station	6	4.39	0.0001	Sqrt(mean)	2.6	2.4	2.3	1.9	1.8	1.3	0.6
Sled	S X T	28	2.47	0.0044								
	Trip	5	7.82	0.0001	Station	613	45	603	633	85	623	65
	Station	6	4.42	0.0016	Sqrt(mean)	2.5	1.9	1.7	1.4	1.3	1.0	0.5
Plankton	S X T	10	24.67	0.0001								
	Trip	2	13.29	0.0002	Station	623	613	603	85	45	65	633
	Station	6	26.95	0.0001	Sqrt(mean)	5.6	1.3	1.1	0.5	0.0	0.0	0.0

Table 2. (continued)

Spotted Seatrout

		df	F	P < f	Tukey's Studentized Range Test							
Seine	S X T	30	1.51	0.1087								
	Trip	5	3.59	0.0085	Station	613	65	603	85	633	623	45
	Station	6	4.88	0.0007	Sqrt(mean)	0.2	0.2	0.1	0.1	0.0	0.0	0.0
Sled	S X T	12	0.93	0.5345								
	Trip	2	0.45	0.6453	Station	623	65	633	613	85	603	45
	Station	6	0.52	0.0001	Sqrt(mean)	0.2	0.2	0.1	0.1	0.1	0.0	0.0

SAN ANTONIO BAY

Brown Shrimp

		df	F	P < f	Tukey's Studentized Range Test				
Trawl	S X T	6	1.33	0.2869					
	Trip	2	0.00	1	Station	C	D	B	A
	Station	3	0.67	0.5807	Sqrt(mean)	4.0	2.8	2.4	2.2
Seine	S X T	9	3.41	0.0091					
	Trip	3	6.49	0.0039	Station	D	B	A	C
	Station	3	5.73	0.0026	Sqrt(mean)	2.6	1.6	0.7	0.7
Sled	S X T	9	2.38	0.0484					
	Trip	3	3.27	0.0494	Station	D	B	C	A
	Station	3	1.79	0.1665	Sqrt(mean)	5.4	2.1	1.4	0.8

Table 2. (continued)

White Shrimp

		df	F	P < f	Tukey's Studentized Range Test				
Trawl	S X T	6	22.96	0.0001					
	Trip	2	124.52	0.0001	Station	D	C	B	A
	Station	3	22.96	0.0001	Sqrt(mean)	2.2	2.1	1.1	0.4
Seine	S X T	3	10.34	0.0001					
	Trip	1	17.24	0.0004	Station	B	D	C	A
	Station	3	11.97	0.0001	Sqrt(mean)	1.8	1.5	0.2	0.0
Sled	S X T	3	3.67	0.0261					
	Trip	1	1.85	0.1865	Station	B	D	C	A
	Station	3	2.27	0.1064	Sqrt(mean)	1.0	0.7	0.3	0.2
Plankton	S X T	0	*	*					
	Trip	0	*	*	Station	D	A	C	B
	Station	3	52.52	0.0001	Sqrt(mean)	5.4	0.4	0.0	0.0

Bay Anchovy

		df	F	P < f	Tukey's Studentized Range Test				
Trawl	S X T	15	6.66	0.0001					
	Trip	5	7.21	0.0001	Station	D	C	B	A
	Station	3	42.47	0.0001	Density	14.8	10.0	3.7	0.7
Seine	S X T	6	3.46	0.0084					
	Trip	2	4.16	0.0237	Station	C	B	A	D
	Station	3	4.27	0.0112	Sqrt(mean)	1.2	0.9	0.9	0.2
Sled	S X T	6	2.36	0.0501					
	Trip	2	7.06	0.0026	Station	C	B	D	A
	Station	3	2.96	0.0451	Sqrt(mean)	0.5	0.4	0.1	0.0
Plankton	S X T	6	194.21	0.0001					
	Trip	2	276.70	0.0001	Station	C	D	B	A
	Station	3	266.85	0.0001	Sqrt(mean)	43.7	11.5	4.1	3.7

Table 2. (continued)

Atlantic Croaker

		df	F	P < f	Tukey's Studentized Range Test				
Trawl	S X T	3	17.28	0.0001					
	Trip	1	0.24	0.6313	Station	C	B	D	A
	Station	3	8.18	0.0006	Sqrt(mean)	12.2	12.0	11.8	8.5
Seine	S X T	3	10.97	0.0001					
	Trip	1	2.52	0.1256	Station	C	D	A	B
	Station	3	6.90	0.0016	Sqrt(mean)	1.4	0.8	0.6	0.5
Sled	S X T	3	1.22	0.0002					
	Trip	1	3.27	0.0832	Station	C	D	A	B
	Station	3	6.31	0.0026	Sqrt(mean)	1.6	0.9	0.6	0.7

Spotted Seatrout

		df	F	P < f	Tukey's Studentized Range Test				
Trawl	S X T	3	1.33	0.2869					
	Trip	1	0.00	1	Station	C	D	A	B
	Station	3	0.67	0.5807	Sqrt(mean)	0.1	0.1	0.0	0.0
Seine	S X T	6	3.41	0.0091					
	Trip	2	6.49	0.0039	Station	B	D	C	A
	Station	3	5.73	0.0026	Sqrt(mean)	0.5	0.5	0.1	0.0
Sled	S X T	6	2.38	0.0484					
	Trip	2	3.27	0.0494	Station	D	C	B	A
	Station	3	1.79	0.1665	Sqrt(mean)	0.3	0.2	0.2	0.0

ATLANTIC CROAKER

Seine

- +— 45 -Δ- 603 -○- 613 ···+··· 623
- ▲— 633 -●- 65 -▽- 85

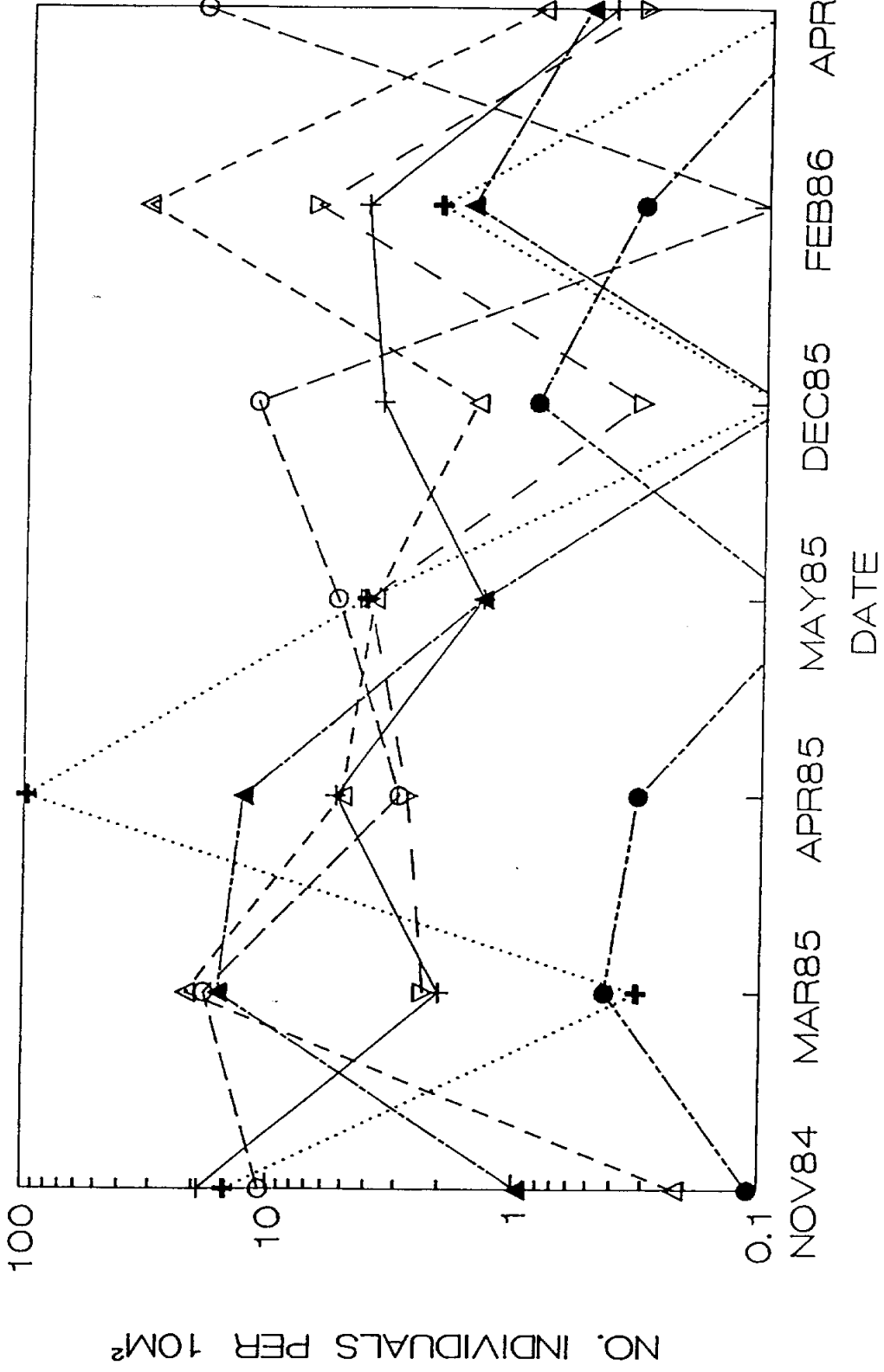


Figure 1. Density of Atlantic croaker taken at each Lavaca Bay station during the high density period of Atlantic croaker in the seine data.

Figures 2 and 3 represent a somewhat better situation. The Tukey's test on brown shrimp seine data for Lavaca Bay gives two significantly different station groups without any overlap. Figure 2 shows that the station x trip interaction is generally within the two station groups and interaction between the groups is comparatively minimal. Thus one can conclude that the difference between stations 613, 85, and 603 and the other 4 stations is real despite the significant interaction. A similar situation is seen in the white shrimp seine data from Lavaca Bay. Station 613 is clearly separated from the other stations in the Tukey's test and Figure 3 shows that essentially all of the station-trip interaction involves stations other than 613. Thus, one can consider the significant difference between station 613 and the other stations as realistic. It appears that this kind of interpretation can be applied to all analysis where the Tukey's test indicated a clear and non-overlapping difference among one or more stations. ANOVA results for each species were examined in light of the above discussion.

In Lavaca Bay, brown shrimp were generally more abundant at the lake stations and station 85 than at the river stations. In trawl collections, brown shrimp had significantly higher densities at the higher salinity lake sites 613 and 623 and significantly lower densities at the lower salinity river station 45. The pattern from the seine collections was not as clear where both low salinity (603) and higher salinity (613) lake stations along with higher salinity river station 85 were significantly different from all other stations. Differences in white shrimp densities among stations were complex and not readily interpretable. The only clear pattern was the much higher density at the higher salinity lake station 613 in the seine data. Planktonic white shrimp (mostly postlarvae) were found only in the high salinity bay stations.

Differences in fish densities among stations were more complex than the shrimp densities. Bay anchovy were uniformly distributed throughout the bay in the trawl and sled collections while planktonic larvae were significantly less abundant at the low salinity river and lake sites than at the higher salinity bay and lake stations. Atlantic

BROWN SHRIMP

Seine

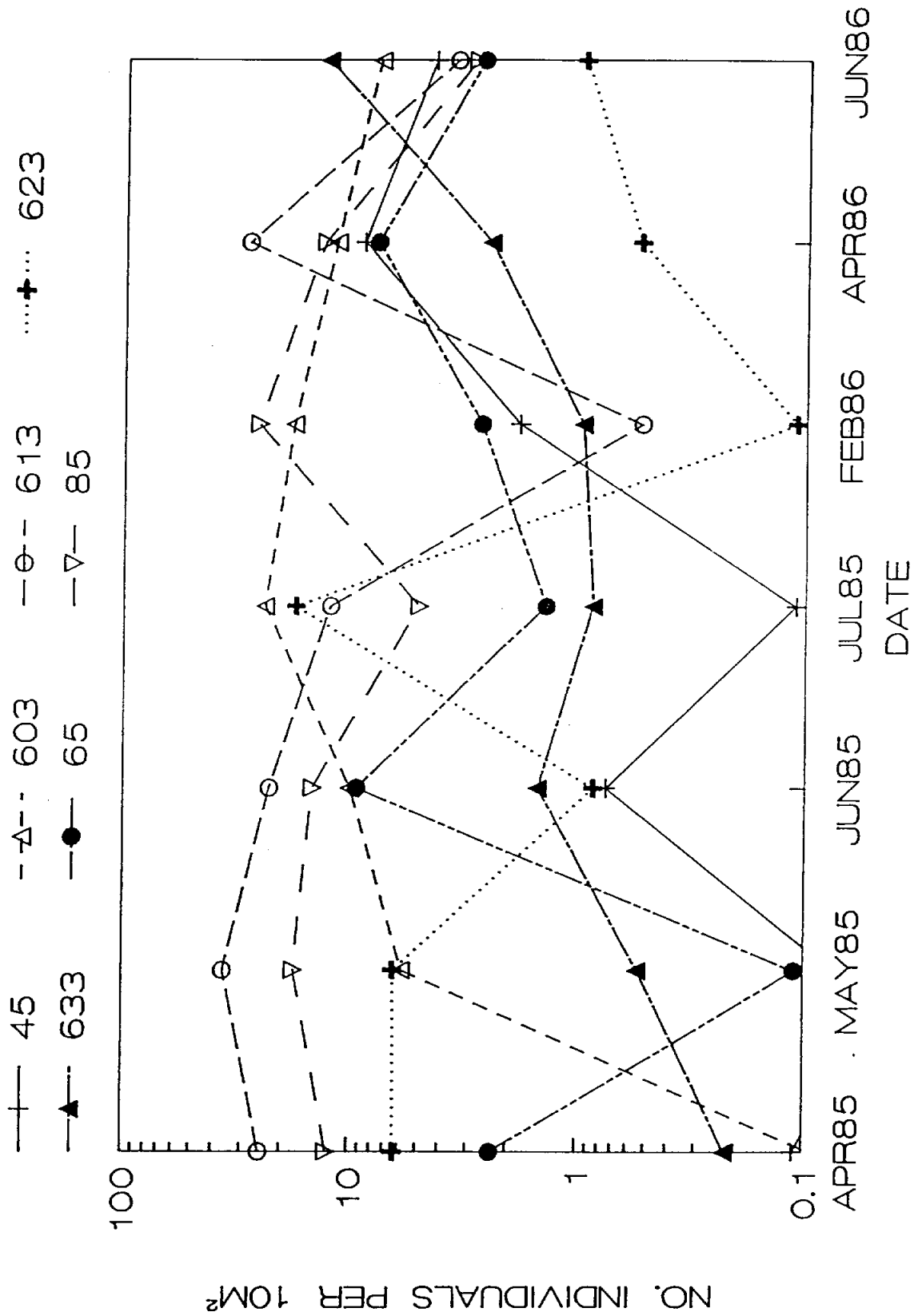


Figure 2. Density of brown shrimp taken at each Lavaca Bay station during the high density period of brown shrimp in the seine data.

White Shrimp Seine

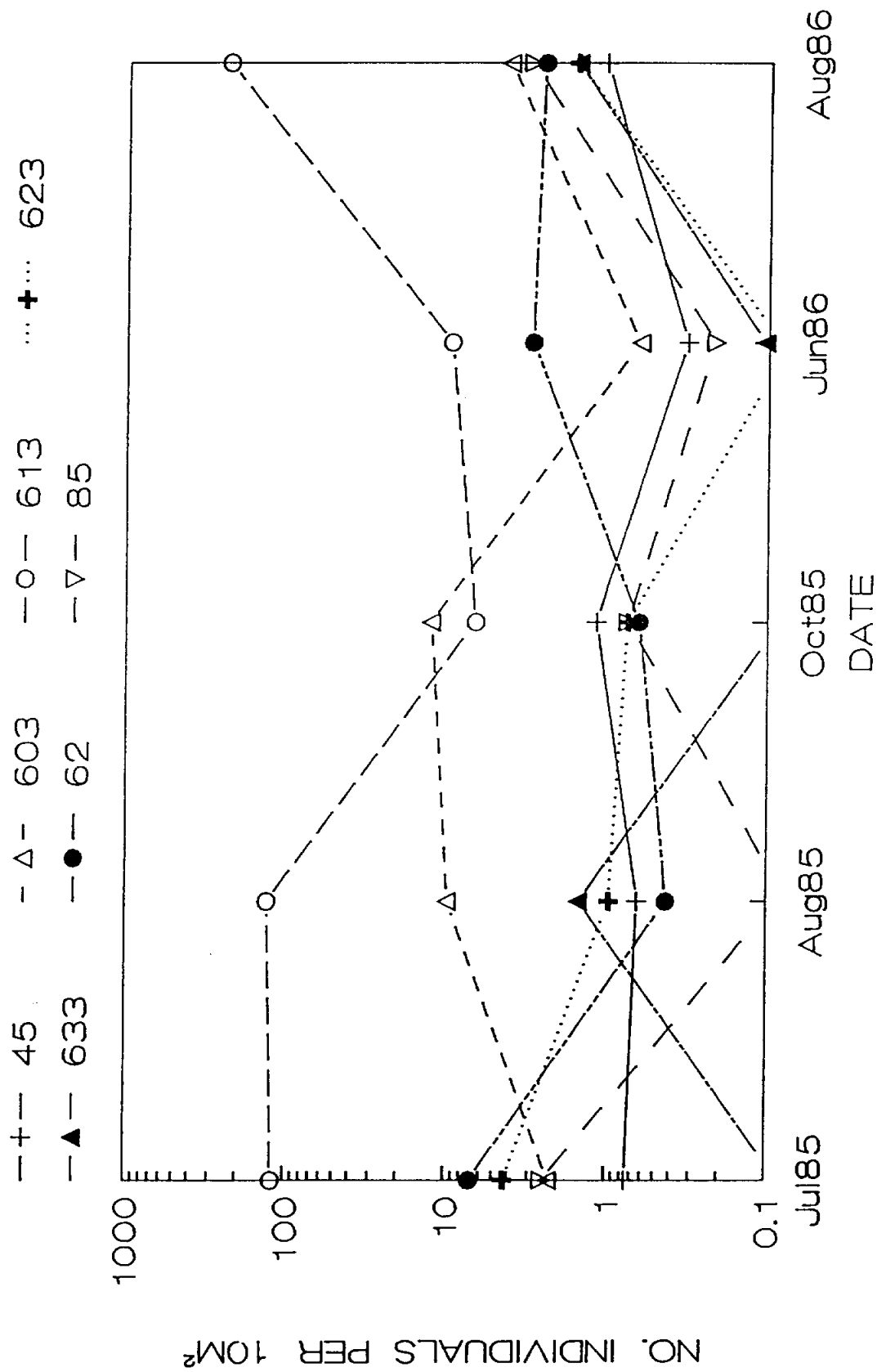


Figure 3. Density of white shrimp taken at each Lavaca Bay station during the high density period of white shrimp in the seine data.

croaker were significantly less abundant in the lower salinity up-river stations 45 and 65 than at other sites in trawl collections and planktonic Atlantic croaker were abundant only at station 623. Spotted seatrout were uniformly rare in Lavaca Bay.

In San Antonio Bay, brown shrimp catches were greater at higher salinity, vegetated site D than at the other sites in both seine and sled collections. Site B had the second highest density in both gears. White shrimp catches were similar to brown shrimp in that highest catches were at sites B and D but the differences were not significant in the sled collections. A clear pattern was found in the white shrimp trawl data where higher salinity sites C and D had significantly higher densities than sites A and B. The same pattern was seen for brown shrimp but the station x trip interaction confounded the interpretation. There were no planktonic brown shrimp but planktonic white shrimp were significantly more abundant at site D than at the other three sites.

As in Lavaca Bay, fish densities showed more complex station-trip interactions than shrimp. In trawl and plankton samples (open water as opposed to shoreline collections), bay anchovy densities were significantly different between low salinity (A and B) and higher salinity (C and D) sites while shoreline collections were either uniform among sites or not interpretable due to interactions. Trawl data for Atlantic croaker presented something of a contrast in that only site A (rather than A and B) had significantly lower density. Spotted seatrout were uniformly uncommon in San Antonio Bay but there were significantly fewer (none) at site A than at the other sites in the seine collections. The same was true for sled collections but the differences were not significant.

In summary, there was no clear and consistent pattern of density differences among stations for all species examined. Differences among station means were usually significant but station x trip interactions typically rendered them not interpretable. In the Lavaca Bay data there was a trend for the lower salinity river stations (45 and 65) to have relatively low density compared to all other sites but in only a few cases were

the densities at these sites significantly different from all others. On the other hand, higher salinity lake stations 613 and 623 and station 85 (bay or river station, depending on gear type) were usually among the highest densities. In the San Antonio Bay data, densities at lower salinity, vegetated site A were usually among the lowest of all stations while densities at higher salinity, vegetated site D were among the highest. Thus, in both bay systems, lower densities were often seen at lower salinity sites than at high salinity sites but these trends were not universally true for all gear types in all species (white shrimp was an important exception) and the trend was often not confirmed statistically, leaving the general conclusion that site differences were not a persistent and pervasive aspect of the nekton within the study area. It should be remembered that Holt and Arnold (1986) showed that seasonal differences were important in structuring the estuarine nekton community in Lavaca Bay.

Density Differences Among "bays"

Results of ANOVA on density differences among "bays" are given in Table 3. Brown shrimp were significantly more abundant in Lavaca Bay year 2 than other bays in both trawl and sled data. Densities in San Antonio Bay were significantly lower than Lavaca Bay either year in the trawl data. Densities in seine and sled collections were lowest in San Antonio bay and Mesquite Bay prior to Cedar Bayou but station x trip interactions confound the interpretation. White shrimp present a similar but somewhat clearer picture. Densities in Lavaca Bay years 1 and 2 were significantly higher than San Antonio or Mesquite Bays in both trawl and sled collections. The same pattern was seen in the seine data but again, station x trip interactions confound the interpretation. There were significantly higher catches of planktonic white shrimp in San Antonio Bay than in the other bays but this was due entirely to a single collection at station D on 6 April 1987 where there was a mean density of 46.32 (+/- 9.79 SE) white shrimp per 100 M³ in four replicate plankton tows. All other San Antonio Bay

Table 3. Results of ANOVA on bay system (or temporally stratified bay) for each of the five species in Lavaca Bay year 1 (LAB1), Lavaca Bay year 2 (LAB2), San Antonio Bay (SAB), Mesquite Bay prior to opening Cedar Bayou (CBYP), and Mesquite Bay after Cedar Bayou was open (CBYO). In the Tukey's Studentized Range Test "Sqrt(mean)" is the mean of the transformed values. Station means not connected by the same line are significantly different.

Brown Shrimp

	df	F	P < f		Tukey's Studentized Range Test					
Trawl	2	57.97	0.0001	Station	LAB2	LAB1	SAB			
				Sqrt(mean)	8.0	5.4	1.9			
Seine	4	7.91	0.0001	Station	CBYO	LAB1	LAB2	CBYP	SAB	
				Sqrt(mean)	2.3	2.2	2.1	1.4	1.3	
Sled	4	15.27	0.0001	Station	LAB2	CBYO	LAB1	SAB	CBYP	
				Sqrt(mean)	4.7	3.3	2.6	2.0	1.3	
Plankton	2	2.86	0.0707	Station	LAB1	SAB	LAB2			
				Sqrt(mean)	5.1	2.8	0.7			

White Shrimp

	df	F	P < f		Tukey's Studentized Range Test					
Trawl	2	8.86	0.0002	Station	LAB1	LAB2	SAB			
				Sqrt(mean)	3.8	3.3	2.0			
Seine	4	4.74	0.0012	Station	LAB1	LAB2	SAB	CBYO	CBYP	
				Sqrt(mean)	2.3	2.2	1.1	0.6	0.5	
Sled	4	9.36	0.0001	Station	LAB1	LAB2	SAB	CBYO	CBYP	
				Sqrt(mean)	2.2	2.1	0.8	0.4	0.4	
Plankton	3	11.43	0.0001	Station	SAB	LAB1	LAB2			
				Sqrt(mean)	1.9	0.7	0.4			

Table 3. (continued)

Bay Anchovy

	df	F	P < f		Tukey's Studentized Range Test					
Trawl	2	3.33	0.0372	Station Sqrt(mean)	LAB2	SAB	LAB1			
					2.7	2.6	2.1			
Seine	4	32.97	0.0001	Station Sqrt(mean)	LAB1	LAB2	CBYP	SAB	CBYO	
					6.0	5.5	1.3	1.2	1.1	
Sled	4	3.90	0.0041	Station Sqrt(mean)	LAB1	LAB2	SAB	CBYP	CBYO	
					1.1	0.9	0.9	0.9	0.7	
Plankton	3	13.98	0.0001	Station Sqrt(mean)	CBYO	SAB	LAB2	CBYP	LAB1	
					47.5	16.1	1.4	1.1	0.0	

Atlantic Croaker

	df	F	P < f		Tukey's Studentized Range Test					
Trawl	2	14.60	0.0001	Station Sqrt(mean)	SAB	LAB1	LAB2			
					11.3	8.1	6.1			
Seine	3	3.28	0.023	Station Sqrt(mean)	CBYO	LAB1	LAB2	SAB	CBYP	
					2.1	1.9	1.4	0.7	0.0	
Sled	3	5.14	0.0021	Station Sqrt(mean)	LAB1	CBYO	LAB2	SAB	CBYP	
					1.8	1.2	1.0	0.7	0.0	
Plankton	2	6.73	0.0017	Station Sqrt(mean)	LAB1	CBYP	CBYO	LAB2	SAB	
					1.5	0.0	0.0	0.0	0.0	

Spotted Seatrout

	df	F	P < f		Tukey's Studentized Range Test					
Trawl	0	*	*							
Seine	3	6.98	0.0002	Station Sqrt(mean)	CBYO	CBYP	SAB	LAB1	LAB2	
					1.1	0.9	0.9	0.8	0.0	
Sled	3	5.09	0.0021	Station Sqrt(mean)	CBYO	CBYP	SAB	LAB1	LAB2	
					1.0	0.9	0.8	0.7	0.0	
Plankton	2	99.90	0	Station Sqrt(mean)	CBYO	CBYP	SAB	LAB2	LAB1	
					0.7	0.3	0.0	0.0	0.0	

plankton samples were essentially zero. The individuals in this sample averaged 12.43 mm TL. This occurred while Cedar Bayou was closed so these individuals must have come from Matagorda Bay (though they could have come up from Aransas Bay). While mean density of planktonic white shrimp in Lavaca Bay was significantly less than in San Antonio Bay, there were several collections (exclusively in the lower part of the study area) with densities over 3 individuals per 100 M³ and one (at station 85) of 27.69 (+/- 13.76 SE) per 100 M³. These shrimp averaged 6.88 mm TL. Thus it appears that white shrimp postlarvae were recruited into the Lavaca Bay River delta regularly, albeit at low density, from April through August. Recruitment of postlarvae into San Antonio Bay was irregular at best and this seems to be reflected in the low seine and sled catches there.

The densities of bay anchovy in trawl collections were not different among bays. Density differences among bays in sled collections were significant but were confounded by station x trip interactions. Density estimates of bay anchovy in benthic sled collections are suspect due to gear avoidance by this actively swimming pelagic species. Seine collections are more reliable for this species. Densities of bay anchovy in seine collections were significantly higher in Lavaca Bay both years than either San Antonio or Mesquite Bays. Interestingly, densities in plankton samples were significantly lower in Lavaca Bay year 1 than in all other bays. Larval bay anchovy were significantly more abundant in Mesquite Bay after Cedar Bayou was open than in other bays. This difference is due to very large numbers of larvae (up to a mean catch of 25,290 larvae per 100 M³ at one site) at all Mesquite Bay sites in April and June 1988. These high numbers were also seen at station C in San Antonio Bay in July 1988. This occurred during a high salinity year following flooding (and very low salinity) the year before, but there is not any reason to suggest cause and effect.

Atlantic croaker densities were relatively similar among bays for all gears except the trawl. Although there were significant differences in density among bays for all

gears, significant station x trip interaction precluded making meaningful interpretation in all but trawl samples. Atlantic croaker densities from trawl samples were significantly higher in San Antonio Bay than in Lavaca Bay either year. This was one of the few instances where San Antonio Bay had significantly higher density of any species in any gear type.

No spotted seatrout were taken in trawl collections. Spotted seatrout densities in seine collections were significantly higher in Mesquite Bay after Cedar Bayou was opened than in all other bays and significantly lower in Lavaca Bay year 2. Densities in plankton catches were also significantly higher in Mesquite Bay after Cedar Bayou was open than in all other bays.

There was a general trend for both fish and shrimp densities in Lavaca Bay both years to be among the highest and for San Antonio Bay and Mesquite Bay prior the opening of Cedar Bayou to be among the lowest but there were almost as many exceptions to this pattern as there were conformations. White shrimp were significantly more abundant in Lavaca Bay than San Antonio Bay or Mesquite Bay in all sampling gears except plankton, where they were more abundant in San Antonio Bay (due primarily to one big catch). Brown shrimp patterns were more complex but they were generally more (by "more" here we mean statistically significant) abundant in Lavaca Bay year 2 and Mesquite Bay after Cedar Bayou was open and always low in San Antonio Bay. Atlantic croaker were more abundant in San Antonio Bay in trawl catches but were lowest in San Antonio Bay in seine and sled although Tukey's Studentized Range Test showed a lot of overlapping significance in these samples. Bay anchovy showed no difference in trawl or seine samples. Sled data are questionable (due to gear avoidance) but bay anchovy were substantially more abundant in Lavaca Bay. Plankton catches of bay anchovy were higher in Mesquite Bay after Cedar Bayou. Spotted seatrout were most abundant in Mesquite Bay and lowest in Lavaca Bay. As stated above, there was no consistent pattern for all species but San Antonio Bay

usually had significantly lower densities than at least one or two other "bays" but usually not lower than all other "bays"; San Antonio Bay and Mesquite Bay prior to Cedar Bayou often had similarly low densities for most species. Densities in Lavaca Bay years 1 and 2 were usually among the highest and were usually not different from each other.

Analysis of salinity/density relationship in all bays

Given the lack of consistent station differences within bays, we ran regression analysis of salinity effects on density as a stepwise multiple regression by gear with bay and salinity as regressors, taking the data from all stations within a bay as being from one population. A significance level of 0.15 was set for entry of each regressor into the model. In most cases, the bay regressor entered the model first and typically accounted for 10 to 20 % of the variance in the model. Often salinity failed to meet the 0.15 significance level necessary to enter the model (Table 4).

Both bay and salinity were effective regressors on the abundance of brown shrimp in the trawl and sled data. The combined effect of bay and salinity differences accounted for >46% of the variability in brown shrimp trawl data; the highest r^2 of any of the regressions. Salinity accounted for > 13% of that variability and Figure 4 shows the positive relationship between salinity and density, although there is a lot of scatter in the data. It can also be seen from Figure 4 that not all the high catches were confined to high salinities. The combined effect of bay and salinity accounted for > 27% of the variability in brown shrimp catches in sled samples. Figure 5 shows that the brown shrimp density / salinity relationship, which accounts for 10% of the variability, is positive but that was due largely to two large catches at high salinity. Salinity was not effective in explaining brown shrimp densities in the seine data. Salinity was the first regressor to enter the model for trawl data for white shrimp and accounted for > 15% of the variability and Figure 6 shows the inverse relationship between salinity and

Table 4. Summary of results of stepwise regression of individual species densities on "bay" and salinity. Within each gear, the variables are listed in the order in which they entered the model. An F value of "----" indicates that variable did not meet the 0.15 significance level for entry into the model.

Brown Shrimp					
Gear	Variable	Partial r^2	Model r^2	F	Prob. >F
Trawl	Bay	0.3341	0.3341	30.599	0.0001
	Salinity	0.1336	0.4677	15.062	0.0003
Seine	Bay	0.1232	0.1232	13.349	0.0004
	Salinity			----	
Sled	Bay	0.1738	0.1738	19.982	0.0001
	Salinity	0.1006	0.2774	13.027	0.0005
Plankton	Bay			----	
	Salinity			----	
White Shrimp					
Gear	Variable	Partial r^2	Model r^2	F	Prob. >F
Trawl	Salinity	0.1545	0.1545	30.701	0.0001
	Bay	0.0564	0.2109	11.934	0.0007
Seine	Bay	0.0901	0.0901	16.446	0.0001
	Salinity			----	
Sled	Bay	0.1548	0.1548	30.391	0.0001
	Salinity			----	
Plankton	Bay	0.0221	0.0221	4.207	0.0417
	Salinity			----	

Table 4 cont.

Bay Anchovy

Gear	Variable	Partial r^2	Model r^2	F	Prob. >F
Trawl	Salinity Bay			----	
Seine	Bay Salinity	0.2463	0.2463	45.096 ----	0.0001
Sled	Salinity Bay	0.0504 0.0147	0.0504 0.0651	7.322 2.157	0.0077 0.1441
Plankton	Bay Salinity	0.0965	0.0965	8.006 ----	0.0060

Atlantic Croaker

Gear	Variable	Partial r^2	Model r^2	F	Prob. >F
Trawl	Bay Salinity	0.1156	.01156	6.272 ----	0.0157
Seine	Bay Salinity			----	
Sled	Bay Salinity			----	
Plankton	Bay Salinity	0.0890	0.0890	4.589 ----	0.0374

Spotted Seatrout

Gear	Variable	Partial r^2	Model r^2	F	Prob. >F
Trawl	Bay Salinity			----	
Seine	Salinity Bay	0.2108 0.0269	0.2108 0.2377	21.365 2.791	0.0001 0.0987
Sled	Salinity Bay	0.2563 0.0196	0.2563 0.2758	27.567 2.134	0.0001 0.1480
Plankton	Bay Salinity	0.0507 0.0484	0.0507 0.0991	7.419 7.418	0.0073 0.0073

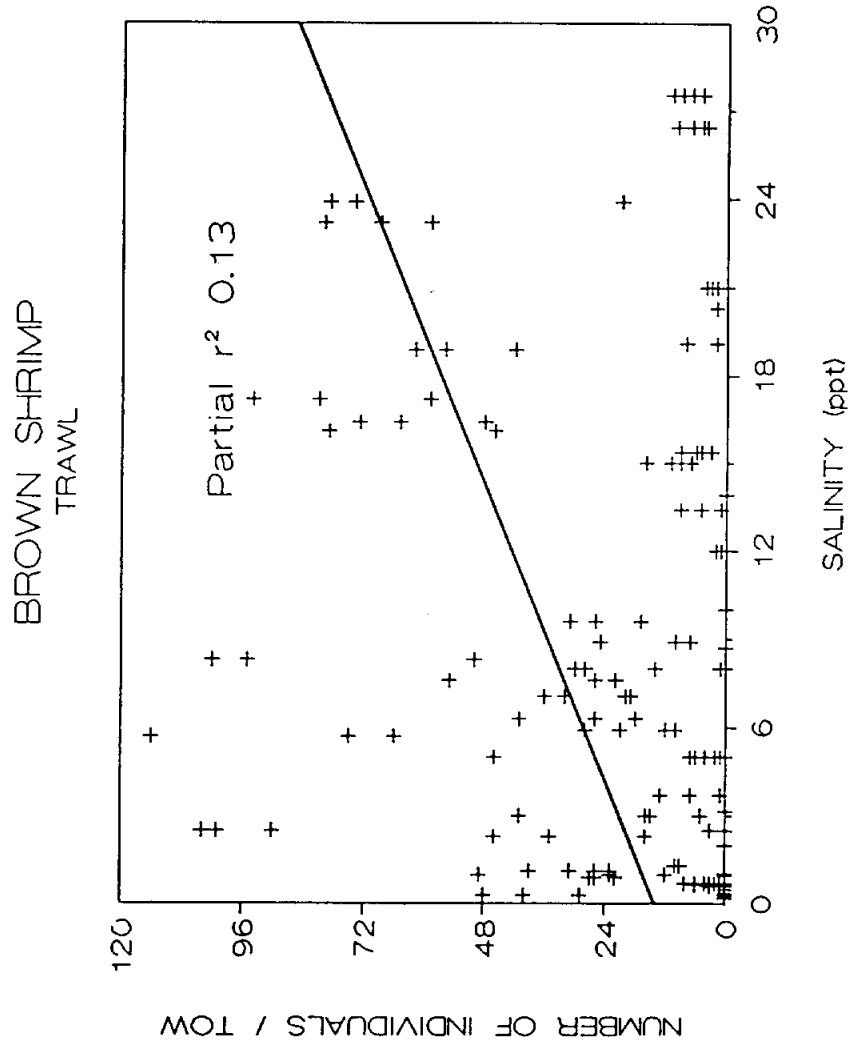


Figure 4. Relationship of brown shrimp density to salinity in the trawl data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

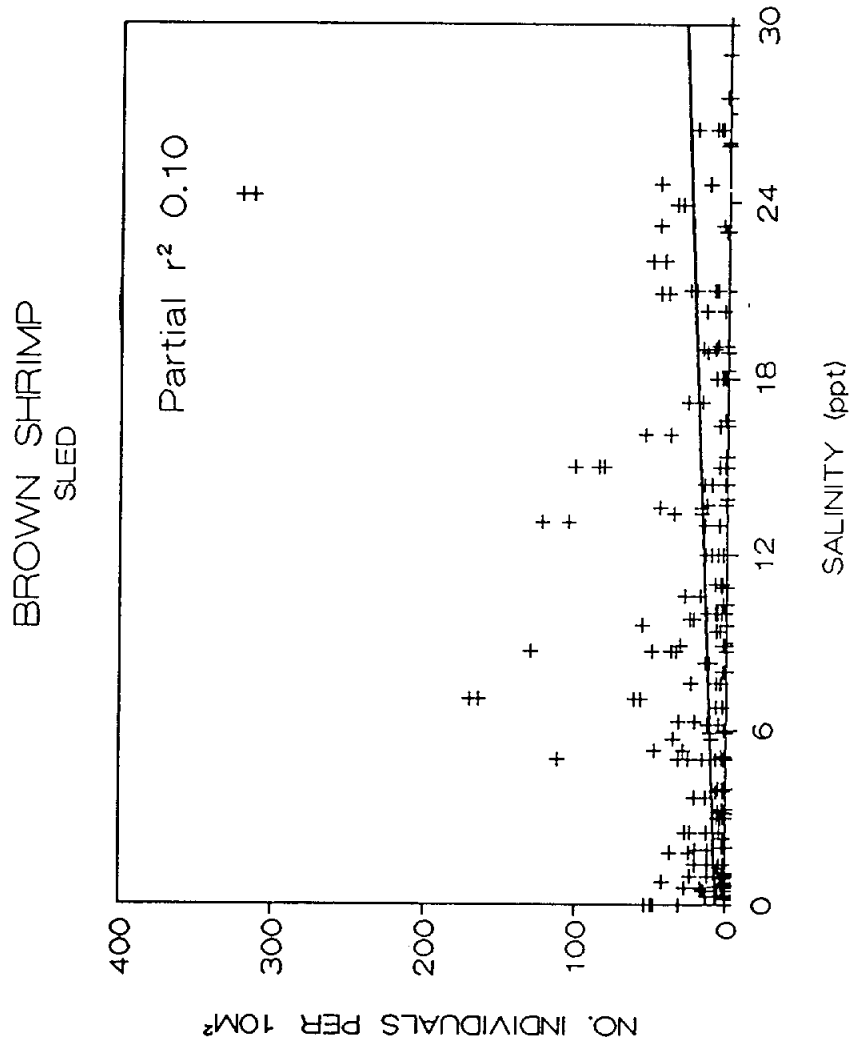


Figure 5. Relationship of brown shrimp density to salinity in the sled data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

WHITE SHRIMP
TRAWL

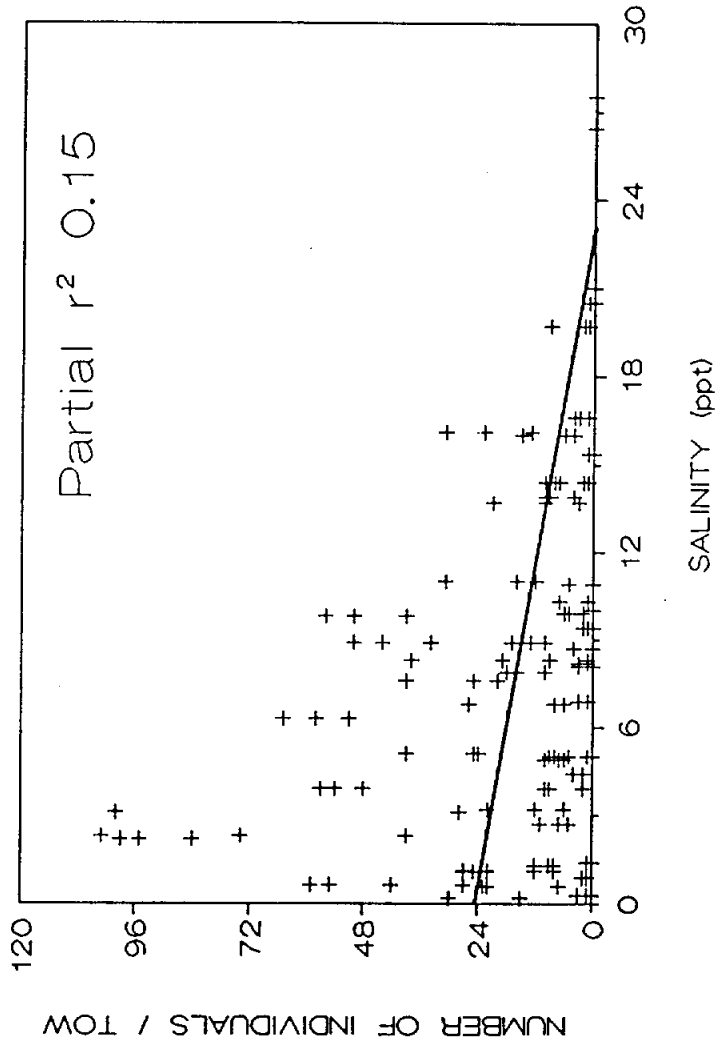


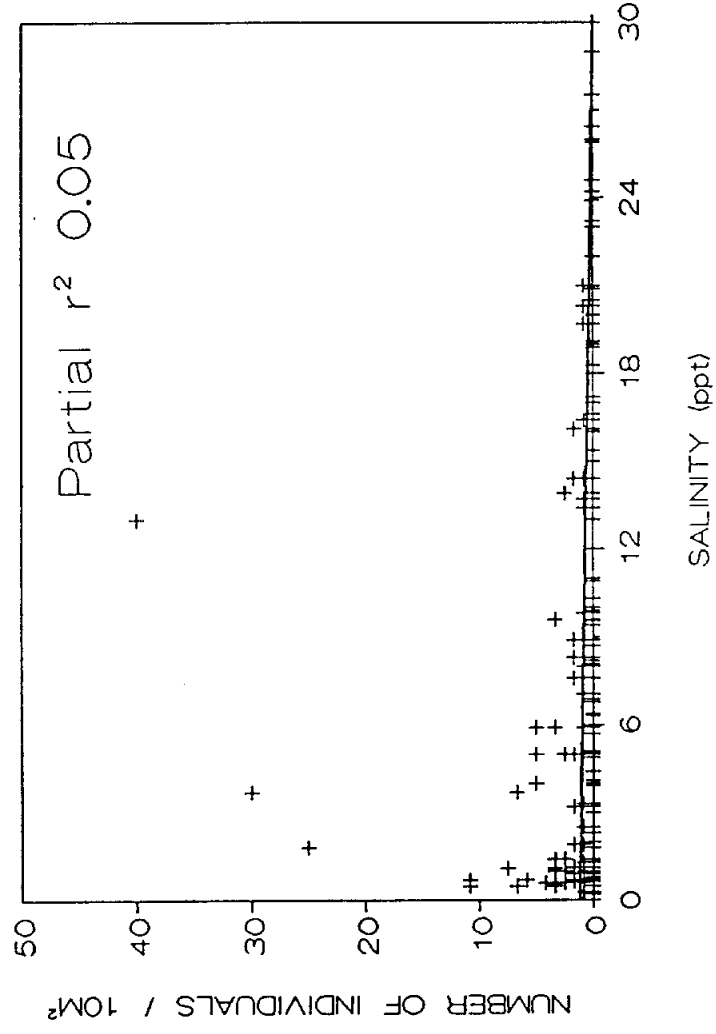
Figure 6. Relationship of white shrimp density to salinity in the trawl data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

density. The whole model accounted for > 21 % of the variability in the white shrimp trawl data. Salinity did not enter the model for any other gear type in the white shrimp data.

Similarly, salinity entered into the model for only one gear type in the bay anchovy data, accounting for < 2% of the variability in the sled data and showed a slightly negative relationship (Figure 7). The bay variable was not effective in explaining more than 9% of the variability for any gear type in the Atlantic croaker data and salinity failed to enter the model for any gear type. Salinity had a positive relationship with density of spotted seatrout in the seine, sled, and plankton samples (Figs.8-10) and accounted for > 21%, > 25%, and > 4% of the variability respectively in each of these gear types. Spotted seatrout were not taken in trawl samples. Even though the r^2 values were relatively high for these regressions there was still a substantial amount of variability in these data. Figure 7 shows that the highest density of spotted seatrout was actually found at a salinity of about 5 ppt but there were relatively more high density catches at higher salinities and relatively more zero catches at low salinities.

In summary, salinity had a positive relationship with density of brown shrimp; had a negative relationship with some white shrimp densities; had a slight negative relationship with bay anchovy density; had no correlation with Atlantic croaker densities; and had a significant positive relationship in spotted seatrout densities. Although some negative and some positive salinity effects can be shown, there was always a lot of scatter or noise in the data and salinity seldom accounted for more than 20% of the variability in the data.

BAY ANCHOVY
SLED



SPOTTED SEATROUT SEINE

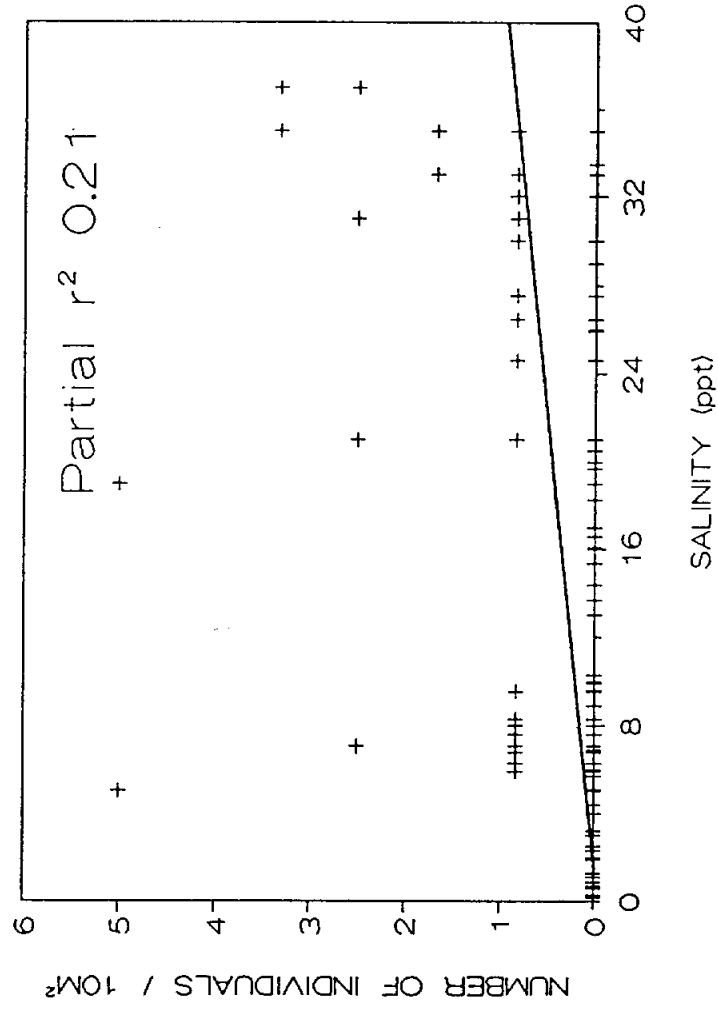


Figure 8. Relationship of spotted seatrout density to salinity in the seine data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

SPOTTED SEATROUT SLED

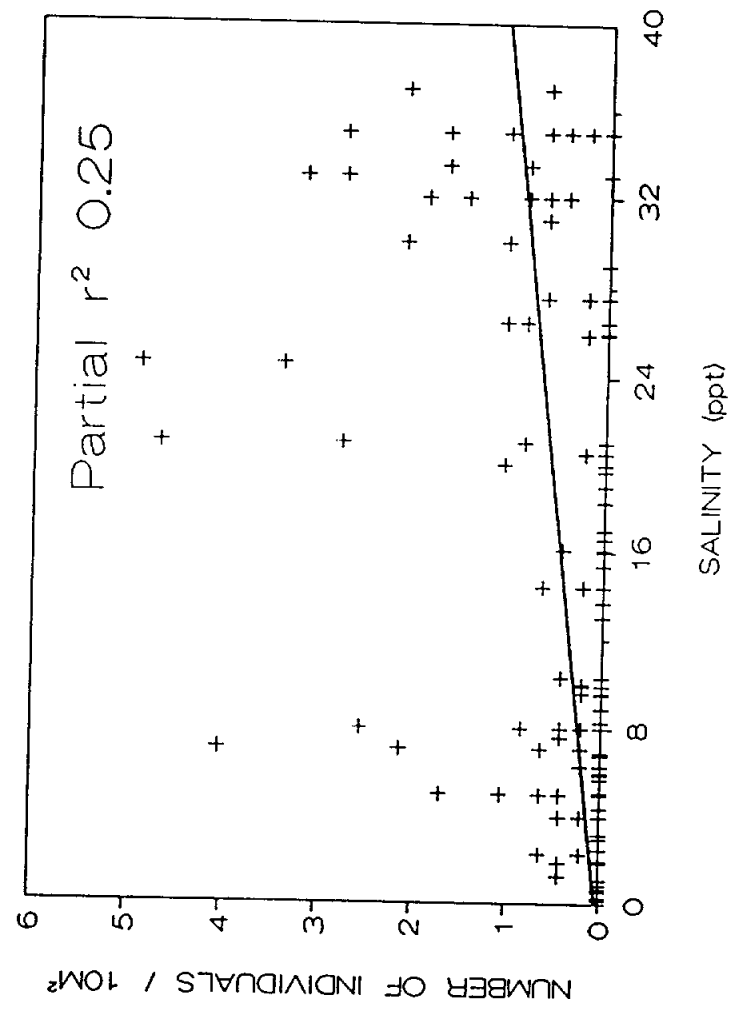


Figure 9. Relationship of spotted seatrout density to salinity in the sled data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

SPOTTED SEATRROUT PLANKTON

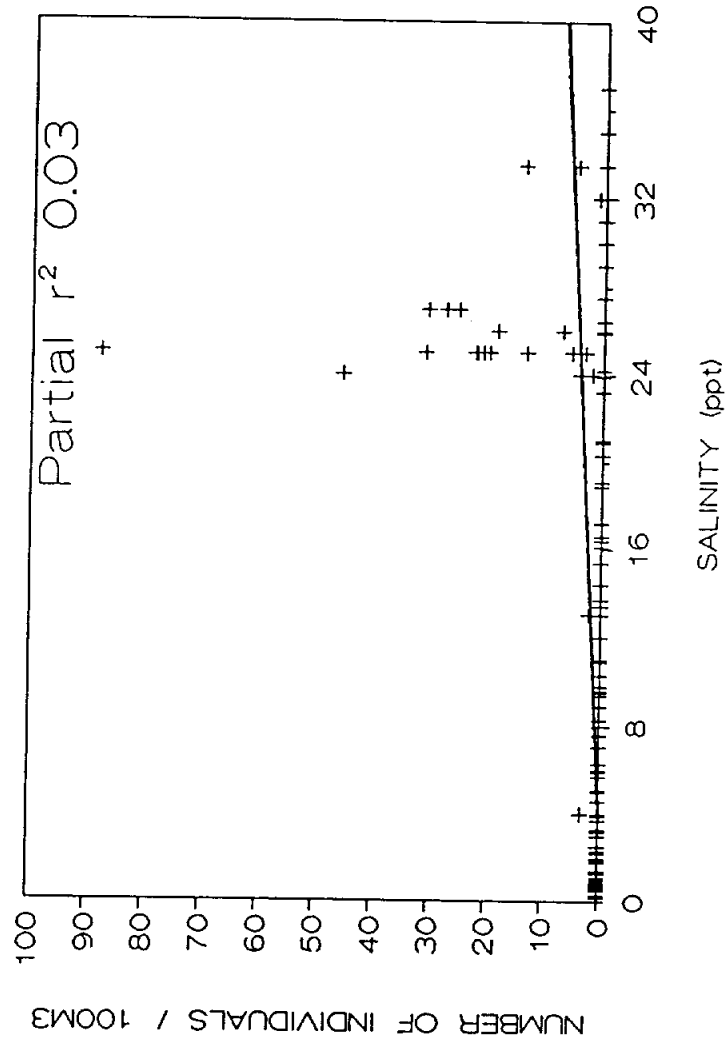


Figure 10. Relationship of spotted seatrout density to salinity in the plankton data from Lavaca and San Antonio Bays. The partial r^2 value is from multiple regression.

Analysis of inflow/density relationship

Regressions of density against inflow were possible only for the Lavaca Bay data since there were typically too few data points in the San Antonio Bay data when only the high density periods were analyzed. With only two exceptions, the regressions were all non-significant. The significant regressions were with white shrimp sled data ($F=11.02$, $df=4$, $P=0.045$) and bay anchovy sled data ($F=54.49$, $df=10$, $P=0.0001$). In both cases the relationship was positive. Only in the bay anchovy sled data did the salinity and inflow relationships concur in that there was a negative relationship with salinity and a positive relationship with inflow.

CONCLUSIONS

Salinity was a relatively poor predictor of density for the species examined in this study when salinity varied within a "normal" range. Salinity appeared to have a substantial effect only when it varies in the extreme. This is not meant to imply that salinity is unimportant in determining distribution or density of nekton in estuaries, but within the constraints of our experimental design and environmental effects beyond our control, the density of the nekton examined here was influenced much more by other abiotic and biotic factors.

One of the experimental design constraints was the physical layout of the study areas relative to the estuary as a whole. The Lavaca Bay sites were confined to the river delta and the extreme upper portion of Lavaca Bay and left unsampled the vast expanse of Matagorda Bay and those sites closer to the Gulf of Mexico. We were therefore dealing with species which typically migrate to the mesohaline if not the oligohaline portions of the estuary and are the most euryhaline of all the estuarine-dependent species. Had we sampled the entire gradient from the largely marine environments near the tidal pass to the oligohaline river sites we would, in all

likelihood, have seen a clear effect of salinity on species composition similar to that found in other broad scale studies (Gunter 1961, Weinstein *et al.* 1980, Ross and Epperly 1985). Both data sets showed a significant change in species composition (primarily a reduction in species diversity) with distance from the tidal inlet and the corresponding reduction in average salinity. Weinstein *et al.* (1980) attributed this species diversity gradient to the limited physiological capacity of many marine species to tolerate reduced salinities.

The apparent experimental design constraint actually had a positive side. Within the small geographical area we were presented with a salinity gradient of 8 to 14 ppt on most collecting trips. The salinities fell within the "normal" range of salinity variation for the study area but it did present us with a testable salinity gradient. The San Antonio Bay experimental design could have presented us with a stronger and more persistent salinity gradient but unusually heavy rainfall reduced the gradient to only a few ppt for most of the study. All stations in San Antonio Bay were relatively far removed from the nearest tidal inlet, essentially limiting the fauna to those species utilizing the upper reaches of estuaries.

Clearly the most important factor in determining both community composition and individual species densities in this study was date or season (Holt and Arnold 1986). This overwhelming influence of seasonality on community structure was a result of seasonal events in the life-history of the species involved. Both the Lavaca Bay and San Antonio Bay study areas were in secondary bay and river delta areas and the vast majority of species occupying these estuarine zones are transients, primarily marine species whose young utilize estuaries for a few to several months before moving back into oceanic waters as sub-adults. The period during which the young of each species utilize the study area is dictated almost entirely by the spawning cycle of the adults. Spawning is typically confined to a period of just a few months in most species and therefore the period of estuarine utilization by juveniles is similarly restricted to just a

few months. Most of the species in question spawn in the ocean or near the tidal inlet and the timing or intensity of spawning is largely unaffected by salinity variations in the estuary, resulting in very predictable pulses of recruitment by each species into the nursery grounds. This consistent seasonal change in species composition of estuarine fish fauna is well known and is clearly shown in long-term data sets (Holt 1976, Potter *et al.* 1986).

The effects of normal variation in salinity on the density and distribution of species utilizing the upper estuarine nursery areas will only be superimposed on this predictable annual cycle of changing species composition. Most field investigations of salinity effects have concluded that normal salinity variations have little influence on the densities of individual species on a local scale (Weinstein 1979, Weinstein *et al.* 1980, Loneragan *et al.* 1986, Potter *et al.* 1986). Loneragan *et al.* (1986) state that "While salinity was positively correlated with number of species, density and biomass in simple linear regression ... the level of significance in each case was lower than either one or both of distance from estuary mouth or temperature" (ie. season). Weinstein *et al.* (1980) found that despite substantial differences in freshwater inflows from year to year the community patterns of nekton in marshes of the Cape Fear river system remained virtually intact.

We observed essentially the same thing in this study. Even with an 8 to 14 ppt intersite range in salinity in Lavaca Bay, the few significant among-site differences in density shown by ANOVA were related primarily to habitat differences and not to the salinity gradient. We also found that differences in individual species densities were seldom significantly different among years in Lavaca Bay despite an approximately 7 ppt difference in salinity.

Weinstein (1979) tested the salinity preferences of several dominant species in the Cape Fear River system (many of which were also dominants in our system) and found that many were distributed independently of salinity. Interestingly, Atlantic

croaker were among those which showed a significant correlation with salinity whereas in this study, Atlantic croaker distribution was not correlated with salinity. The positive correlations we found between the density of several species and salinity seldom accounted for more than 15 to 20% of the observed variability. We conclude, as did Weinstein (1979), that factors other than salinity contribute substantially to a particular species density and distribution.

While we found only a small portion of the variations in species densities could be directly attributable to salinity differences, we do not mean to imply that salinity changes (or freshwater inflow variations) are unimportant in structuring the nekton populations of the study areas. Two possible effects not covered in this investigation need mention here. One is the subtle effects salinity variations may have on physiological performance. Even though the species examined in this study are quite euryhaline there are still metabolic costs associated with osmoregulation when salinities vary from the optimum. Several behavioral and physiological studies have examined these energetic costs (Wohlschlag and Wakeman 1978; Wohlschlag 1981; Moser and Gerry 1989; Thomas and Holt 1989). Application of laboratory data to field conditions must be done with caution but can provide some constructive insights (Thomas and Holt 1989) which are not available from highly variable field data alone. The other is the effect of long-term, essentially permanent change in freshwater inflow regime similar to the near total elimination of Colorado River discharge into the Gulf of California. Unlike the pendulum effects of flood and drought cycles which most estuaries now experience, permanent changes would likely be quite far reaching. We are unaware of detailed studies of the elimination of Colorado River discharge on the nekton but studies now underway in the hypersaline Laguna Madre by several researchers here at UTMSI will offer some new insights into the potential effects of such catastrophic change.

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FINAL REPORT

Data Synthesis and Analysis

Nitrogen Processes Study (NIPS)

Nursery Habitat Utilization by Finfish and Shellfish

in Lavaca, San Antonio, and Mesquite Bays and their

Relationships to Freshwater Inflow. Section II. Data Tables

by

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for

Bays and Estuaries Program

Environmental Systems Section

Texas Water Development Board

P. O. Box 13231 Capitol Station

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Technical Report No. TR/89-009

APPENDIX I.

Table 1. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Lavaca Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	4.73 (3.36)	10.25 (1.33)
LAB623	0.00 (0.00)	()	LAB633	7.98 (4.66)	11.00 (0.89)
LAB633			LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	2.13 (2.13)	10.50 ()
LAB85	0.00 (0.00)	()			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633			LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.76 (0.76)	13.00 ()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	19.44 (12.09)	12.10 (4.19)	LAB613	0.00 (0.00)	()
LAB623	137.19 (105.33)	13.01 (2.34)	LAB623	0.00 (0.00)	()
LAB633	17.00 (14.78)	12.25 (1.46)	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	19.23 (11.83)	12.71 (0.87)	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	8.20 (8.20)	12.36 ()
LAB623	6.03 (3.74)	()	LAB623	12.10 (8.41)	11.18 (0.54)
LAB633	3.15 (2.23)	()	LAB633	15.90 (9.36)	12.19 (0.92)
LAB65	0.00 (0.00)	()	LAB65	0.78 (0.78)	12.00 ()
LAB85	0.00 (0.00)	()	LAB85	17.68 (10.55)	11.62 (0.91)
6/06/85			6/03/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	6.24 (4.67)	18.17 (47.71)	LAB623	0.00 (0.00)	()
LAB633	4.58 (3.42)	25.20 (22.24)	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	11.57 (6.75)	11.18 (0.48)	LAB85	0.00 (0.00)	()
7/16/85			8/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	3.73 (3.73)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()

Table 2. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Lavaca Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	1.67 (1.18)	26.50 (7.91)
LAB45	1.67 (1.67)	15.62 ()	LAB603	1.04 (0.79)	19.80 (5.91)
LAB603	0.21 (0.21)	12.00 ()	LAB613	0.42 (0.42)	24.00 ()
LAB613	3.54 (2.11)	25.12 (13.93)	LAB623	6.25 (3.75)	17.24 (2.93)
LAB623	4.37 (3.59)	27.86 (14.72)	LAB633	3.54 (3.27)	23.95 (5.28)
LAB633			LAB65	0.63 (0.63)	22.33 ()
LAB65	4.79 (4.52)	17.17 (6.47)	LAB85	0.42 (0.42)	22.50 ()
LAB85	0.41 (0.24)	20.00 (1.82)			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	1.66 (0.96)	()
LAB603	0.00 (0.00)	()	LAB603	3.33 (2.18)	()
LAB613	0.00 (0.00)	()	LAB613	1.25 (0.80)	()
LAB623	0.00 (0.00)	()	LAB623	3.75 (2.27)	()
LAB633			LAB633	0.42 (0.42)	()
LAB65	0.00 (0.00)	()	LAB65	3.75 (2.19)	()
LAB85	0.00 (0.00)	()	LAB85	2.08 (1.58)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.41 (0.24)	()
LAB613	0.42 (0.42)	13.50 ()	LAB613	0.42 (0.42)	()
LAB623	22.71 (13.12)	13.50 (1.62)	LAB623	0.00 (0.00)	()
LAB633	2.50 (1.44)	13.42 (1.31)	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	2.92 (2.39)	12.43 (0.57)	LAB85	0.21 (0.21)	()
4/03/85			2/05/86		
LAB45	0.63 (0.63)	13.00 ()	LAB45	18.96 (11.62)	()
LAB603	3.75 (3.75)	17.06 ()	LAB603	17.50 (10.13)	()
LAB613	10.42 (10.42)	16.92 ()	LAB613	15.21 (10.42)	()
LAB623	1.46 (0.99)	12.86 (1.47)	LAB623	11.25 (6.81)	()
LAB633	0.63 (0.63)	12.67 ()	LAB633	4.37 (2.95)	()
LAB65	4.79 (3.34)	14.65 (0.58)	LAB65	44.79 (30.68)	()
LAB85	15.21 (9.14)	17.86 (4.64)	LAB85	56.88 (33.03)	()
5/07/85			4/09/86		
LAB45	0.00 (0.00)	()	LAB45	12.92 (8.34)	()
LAB603	4.58 (2.98)	32.59 (2.40)	LAB603	10.63 (6.41)	()
LAB613	12.50 (7.25)	25.74 (2.59)	LAB613	20.83 (12.07)	()
LAB623	7.92 (4.88)	21.08 (1.50)	LAB623	158.54 (91.55)	()
LAB633	0.42 (0.42)	13.00 ()	LAB633	12.08 (11.00)	()
LAB65	0.42 (0.42)	28.50 ()	LAB65	22.92 (13.66)	()
LAB85	8.54 (5.16)	31.93 (20.22)	LAB85	16.04 (9.30)	()
6/07/85			6/04/86		
LAB45	0.63 (0.40)	65.67 (0.26)	LAB45	10.84 (6.58)	()
LAB603	1.04 (0.79)	58.01 (7.93)	LAB603	1.87 (1.10)	()
LAB613	7.92 (4.88)	29.63 (16.95)	LAB613	1.25 (1.25)	()
LAB623	11.25 (8.26)	39.11 (11.75)	LAB623	4.17 (3.39)	()
LAB633	0.41 (0.24)	74.00 (1.82)	LAB633	1.87 (1.61)	()
LAB65	4.17 (2.95)	37.10 (2.50)	LAB65	8.75 (5.58)	()
LAB85	13.96 (13.96)	34.51 ()	LAB85	3.33 (3.33)	()
7/17/85			8/06/86		
LAB45	0.21 (0.21)	12.00 ()	LAB45	1.04 (0.63)	21.60 (2.83)
LAB603	2.29 (1.33)	50.00 (0.00)	LAB603	3.12 (1.81)	27.13 (9.33)
LAB613	7.50 (5.51)	23.94 (7.38)	LAB613	0.83 (0.83)	20.50 ()
LAB623	6.25 (3.67)	31.17 (11.21)	LAB623	11.46 (6.64)	22.78 (12.14)
LAB633	13.13 (7.89)	27.58 (2.56)	LAB633	1.04 (0.63)	38.00 (8.26)
LAB65	0.83 (0.48)	14.75 (2.91)	LAB65	2.71 (1.65)	21.77 (3.26)
LAB85	7.71 (7.71)	32.27 ()	LAB85	1.67 (1.02)	30.87 (1.59)

Table 3. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Lavaca Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.42 (0.43)	28.38 ()	LAB603	0.27 (0.20)	36.53 (10.30)
LAB603	0.05 (0.05)	30.00 ()	LAB613	1.01 (0.75)	30.53 (8.64)
LAB613	0.00 (0.00)	()	LAB623	0.11 (0.06)	20.50 (3.44)
LAB623	3.03 (3.03)	26.53 ()	LAB633	0.48 (0.28)	33.00 (4.15)
LAB633			LAB65	0.11 (0.06)	10.50 (0.23)
LAB65	0.69 (0.69)	32.69 ()	LAB85	0.21 (0.15)	23.98 (2.62)
LAB85	0.00 (0.00)	()			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.16 (0.10)	()
LAB603	0.00 (0.00)	()	LAB603	2.34 (1.35)	()
LAB613	0.00 (0.00)	()	LAB613	0.64 (0.45)	()
LAB623	0.00 (0.00)	()	LAB623	0.22 (0.12)	()
LAB633			LAB633	0.11 (0.06)	()
LAB65	0.00 (0.00)	()	LAB65	1.01 (0.70)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.37 (0.22)	13.72 (0.03)	LAB613	0.05 (0.05)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.37 (0.31)	13.58 (0.20)	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.05 (0.05)	14.00 ()	LAB45	0.91 (0.57)	()
LAB603	0.00 (0.00)	()	LAB603	8.94 (5.50)	()
LAB613	12.34 (7.75)	18.63 (1.21)	LAB613	0.27 (0.27)	()
LAB623	3.14 (1.82)	24.44 (2.33)	LAB623	0.05 (0.05)	()
LAB633	0.11 (0.11)	16.50 ()	LAB633	0.48 (0.28)	()
LAB65	1.17 (0.68)	14.50 (0.90)	LAB65	1.33 (0.95)	()
LAB85	6.17 (4.04)	17.45 (2.88)	LAB85	12.87 (8.13)	()
5/07/85			4/09/86		
LAB45	0.00 (0.00)	()	LAB45	4.47 (2.59)	()
LAB603	2.92 (1.69)	37.22 (1.46)	LAB603	5.85 (5.04)	()
LAB613	18.03 (11.02)	27.33 (6.32)	LAB613	14.36 (10.71)	()
LAB623	3.19 (1.97)	24.55 (0.86)	LAB623	0.27 (0.16)	()
LAB633	0.27 (0.16)	16.59 (2.75)	LAB633	1.22 (0.85)	()
LAB65	0.05 (0.05)	38.00 ()	LAB65	3.88 (2.45)	()
LAB85	8.78 (5.20)	28.50 (9.47)	LAB85	6.60 (3.97)	()
6/06/85			6/04/86		
LAB45	0.37 (0.25)	69.14 (0.90)	LAB45	2.18 (1.30)	()
LAB603	5.00 (2.89)	81.99 (5.55)	LAB603	3.83 (2.24)	()
LAB613	11.38 (6.67)	50.17 (19.23)	LAB613	1.75 (1.02)	()
LAB623	0.43 (0.26)	35.85 (8.01)	LAB623	0.48 (0.31)	()
LAB633	0.75 (0.75)	38.64 ()	LAB633	6.49 (4.06)	()
LAB65	4.68 (3.52)	44.06 (6.91)	LAB65	1.33 (0.95)	()
LAB85	7.29 (4.27)	49.95 (6.25)	LAB85	1.43 (0.86)	()
7/17/85			8/06/86		
LAB45	0.05 (0.05)	14.00 ()	LAB45	0.11 (0.11)	60.50 ()
LAB603	11.97 (6.93)	59.56 (3.61)	LAB603	0.69 (0.40)	50.23 (0.29)
LAB613	6.12 (3.59)	38.80 (11.31)	LAB613	0.27 (0.16)	42.80 (0.48)
LAB623	8.73 (5.63)	54.60 (0.14)	LAB623	0.69 (0.45)	39.01 (7.44)
LAB633	0.43 (0.30)	33.13 (1.00)	LAB633	0.32 (0.32)	28.67 ()
LAB65	0.69 (0.45)	38.69 (0.04)	LAB65	0.27 (0.27)	42.40 ()
LAB85	2.50 (1.55)	49.46 (7.32)	LAB85	0.11 (0.11)	27.50 ()

Table 4. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Lavaca Bay with the trawl.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84					
LAB190	0.00 (0.00)	()			
LAB45	1.33 (0.80)	65.50 (4.01)	8/14/85		
LAB603	2.33 (1.12)	55.93 (4.10)	LAB45	0.17 (0.17)	62.00 ()
LAB613	2.50 (1.75)	37.13 (3.23)	LAB603	1.67 (0.95)	65.30 (1.76)
LAB623	3.33 (1.71)	43.55 (10.14)	LAB613	4.00 (2.02)	46.08 (12.18)
LAB633			LAB623	1.00 (0.52)	68.83 (9.24)
LAB65	0.50 (0.34)	59.67 (2.02)	LAB633	2.17 (1.11)	52.69 (6.86)
LAB85	5.83 (2.74)	44.08 (4.72)	LAB65	2.83 (1.90)	57.59 (4.50)
1/22/85			LAB85	0.33 (0.33)	62.50 ()
LAB45	0.00 (0.00)	()	10/23/85		
LAB603	0.00 (0.00)	()	LAB45	1.00 (0.45)	()
LAB613	0.00 (0.00)	()	LAB603	0.83 (0.48)	()
LAB623	0.00 (0.00)	()	LAB613	13.67 (6.19)	()
LAB633			LAB623	3.67 (1.82)	()
LAB65	0.00 (0.00)	()	LAB633	0.33 (0.33)	()
LAB85	0.00 (0.00)	()	LAB65	1.00 (0.63)	()
3/06/85			LAB85	0.83 (0.40)	()
LAB45	0.00 (0.00)	()	12/03/85		
LAB603	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB613	0.17 (0.17)	14.00 ()	LAB603	6.50 (3.50)	()
LAB623	0.00 (0.00)	()	LAB613	2.17 (0.98)	()
LAB633	0.00 (0.00)	()	LAB623	2.00 (1.13)	()
LAB65	0.00 (0.00)	()	LAB633	1.50 (1.15)	()
LAB85	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
4/03/85			LAB85	0.83 (0.54)	()
LAB45	0.00 (0.00)	()	2/05/86		
LAB603	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB613	1.33 (0.80)	23.75 (1.84)	LAB603	0.00 (0.00)	()
LAB623	3.83 (2.15)	27.09 (3.61)	LAB613	0.25 (0.25)	()
LAB633	0.67 (0.49)	22.25 (6.74)	LAB623	3.67 (1.69)	()
LAB65	0.00 (0.00)	()	LAB633	1.67 (1.67)	()
LAB85	0.17 (0.17)	73.00 ()	LAB65	0.50 (0.34)	()
5/07/85			LAB85	1.17 (0.65)	()
LAB45	0.00 (0.00)	()	4/08/86		
LAB603	19.50 (9.06)	40.91 (6.53)	LAB45	2.50 (1.52)	()
LAB613	49.17 (22.07)	44.65 (17.71)	LAB603	39.00 (18.03)	()
LAB623	62.00 (27.73)	68.29 (9.84)	LAB613	109.83 (49.88)	()
LAB633	0.50 (0.34)	46.33 (8.95)	LAB623	107.17 (47.96)	()
LAB65	0.67 (0.67)	45.75 ()	LAB633	34.67 (15.74)	()
LAB85	3.50 (2.20)	64.10 (3.49)	LAB65	48.00 (26.52)	()
6/06/85			LAB85	29.00 (15.40)	()
LAB45	2.83 (1.42)	71.41 (4.31)	6/03/86		
LAB603	12.50 (5.63)	71.51 (2.47)	LAB45	0.17 (0.17)	()
LAB613	128.17 (58.81)	57.38 (4.33)	LAB603	12.33 (5.55)	()
LAB623	42.50 (20.12)	70.38 (9.89)	LAB613	31.00 (14.25)	()
LAB633	12.00 (5.82)	74.67 (21.27)	LAB623	90.17 (56.76)	()
LAB65	1.00 (0.63)	77.33 (8.08)	LAB633	68.67 (66.68)	()
LAB85	12.33 (5.81)	75.38 (14.01)	LAB65	14.00 (7.95)	()
7/16/85			LAB85	26.67 (12.22)	()
LAB45	0.67 (0.49)	56.50 (6.12)	8/05/86		
LAB603	4.67 (2.09)	55.25 (3.43)	LAB45	2.50 (1.45)	38.47 (8.75)
LAB613	27.50 (12.30)	53.98 (3.88)	LAB603	0.17 (0.17)	53.00 ()
LAB623	41.17 (19.80)	65.02 (11.70)	LAB613	15.00 (8.66)	41.84 (0.19)
LAB633	14.17 (7.02)	63.48 (10.92)	LAB623	1.83 (1.83)	55.91 ()
LAB65	16.17 (8.22)	53.45 (5.98)	LAB633	5.33 (2.73)	46.13 (8.69)
LAB85	7.00 (4.00)	68.57 (5.54)	LAB65	1.33 (0.67)	33.25 (7.85)

Table 5. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in San Antonio Bay with the ichthyoplankton.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.33 (0.33)	12.00 ()
SABB	0.00 (0.00)	()
SABC	0.28 (0.27)	12.00 ()
SABD	39.15 (16.13)	12.48 (0.64)
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 6. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in San Antonio Bay with the benthic sled.

Station	Mean Density	Mean Length
11/19/86		
SABA	0.42 (0.31)	15.99 (3.72)
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	3.33 (1.61)	16.56 (2.45)
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.31 (0.31)	12.67 ()
SABD	1.98 (1.35)	14.58 (0.94)
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	13.96 (13.96)	18.44 ()
SABD	33.44 (16.43)	17.55 (5.49)
6/03/87		
SABA	1.87 (0.81)	24.11 (8.39)
SABB	9.90 (4.51)	18.79 (6.64)
SABC	1.35 (1.35)	23.62 ()
SABD	56.46 (25.80)	18.18 (17.25)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.31 (0.15)	60.00 (8.35)
SABD	1.98 (1.07)	47.11 (3.50)
7/01/88		
SABA	0.10 (0.10)	44.00 ()
SABB	6.04 (2.66)	22.12 (13.35)
SABC	0.31 (0.22)	24.68 (6.84)
SABD	4.90 (1.57)	29.89 (9.89)

Table 7. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in San Antonio Bay with the seine.

Station	Mean Density	Mean Length
11/19/86		
SABA	0.03 (0.03)	17.00 ()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.51 (0.21)	15.80 (0.48)
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.03 (0.03)	34.00 ()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.88 (0.48)	15.51 (0.31)
4/07/87		
SABA	0.05 (0.05)	13.50 ()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.93 (0.52)	20.20 (0.83)
6/03/87		
SABA	0.80 (0.39)	52.12 (7.23)
SABB	3.86 (1.66)	47.30 (10.34)
SABC	0.48 (0.26)	62.10 (2.53)
SABD	17.55 (7.88)	31.03 (17.29)
7/14/87		
SABA	0.16 (0.08)	42.83 (1.22)
SABB	0.08 (0.06)	53.34 (0.53)
SABC	0.00 (0.00)	()
SABD	0.61 (0.47)	50.14 (3.12)
7/01/88		
SABA	0.00 (0.00)	()
SABB	4.15 (1.19)	28.66 (9.71)
SABC	0.32 (0.11)	46.65 (4.08)
SABD	3.91 (0.88)	35.63 (7.93)

Table 8. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in San Antonio Bay with the trawl.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.13 (0.13)	80.00 ()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.13 (0.13)	68.00 ()
SABD	0.50 (0.27)	55.50 (13.91)
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	1.12 (0.52)	38.11 (1.94)
SABD	5.37 (2.22)	40.53 (6.26)
6/02/87		
SABA	9.63 (5.08)	60.19 (3.11)
SABB	13.13 (7.24)	63.94 (8.57)
SABC	8.88 (3.87)	75.90 (8.85)
SABD	13.38 (5.43)	72.60 (6.71)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	14.88 (5.85)	69.30 (6.97)
SABD	0.88 (0.74)	57.86 (10.80)
7/01/88		
SABA	2.87 (1.23)	89.17 (5.53)
SABB	1.12 (0.58)	97.45 (7.17)
SABC	4.00 (1.51)	86.65 (14.79)
SABD	3.25 (1.37)	87.77 (3.35)

Table 9. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Mesquite Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/01/86			10/01/87		
C BYA	0.00 (0.00) ()		C BYA	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYX	0.00 (0.00) ()	
			C BYY	0.00 (0.00) ()	
8/01/86			10/01/87		
C BYA	0.00 (0.00) ()		C BYA	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYE	0.00 (0.00) ()	
			C BYF	0.00 (0.00) ()	
8/01/86			C BYX	0.00 (0.00) ()	
C BYA	0.00 (0.00) ()		10/01/87		
C BYB	0.00 (0.00) ()		C BYA	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
			C BYY	0.00 (0.00) ()	
10/01/86			11/01/87		
C BYA	0.00 (0.00) ()		C BYA	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYX	0.00 (0.00) ()	
			12/01/87		
5/01/87			C BYA	0.00 (0.00) ()	
C BYA	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYX	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		4/01/88		
			C BYA	0.00 (0.00) ()	
6/01/87			C BYC	0.00 (0.00) ()	
C BYA	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYE	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYF	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYX	0.00 (0.00) ()	
			6/01/88		
6/01/87			C BYA	0.00 (0.00) ()	
C BYA	0.00 (0.00) ()		C BYC	0.00 (0.00) ()	
C BYB	0.00 (0.00) ()		C BYD	0.00 (0.00) ()	
C BYC	0.00 (0.00) ()		C BYE	0.00 (0.00) ()	
C BYD	0.00 (0.00) ()		C BYF	0.00 (0.00) ()	
C BYE	0.00 (0.00) ()		C BYX	0.00 (0.00) ()	
C BYF	0.00 (0.00) ()				
7/01/87					
C BYA	0.00 (0.00) ()				
C BYB	0.00 (0.00) ()				
C BYC	0.00 (0.00) ()				
C BYD	0.00 (0.00) ()				
C BYE	0.00 (0.00) ()				
C BYF	0.00 (0.00) ()				
9/01/87					
C BYA	0.00 (0.00) ()				
C BYC	0.00 (0.00) ()				
C BYD	0.00 (0.00) ()				

Table 10. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Mesquite Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.21 (0.21)	40.00 ()	CBYA	0.42 (0.42)	48.00 ()
CBYB	0.00 (0.00)	()	CBYC	0.21 (0.21)	68.00 ()
CBYC	0.00 (0.00)	()	CBYD	1.66 (0.96)	25.50 (13.69)
CBYD	0.00 (0.00)	()			
8/20/86			10/01/87		
CBYA	0.63 (0.40)	37.35 (7.37)	CBYA	1.04 (0.79)	12.60 (1.87)
CBYB	0.00 (0.00)	()	CBYC	14.38 (10.33)	11.98 (35.65)
CBYC	0.21 (0.21)	11.00 ()	CBYD	2.29 (1.57)	10.19 (1.07)
CBYD	0.00 (0.00)	()			
8/28/86			10/16/87		
CBYA	1.25 (0.80)	46.69 (28.90)	CBYA	1.66 (1.40)	21.74 (16.70)
CBYB	0.42 (0.42)	10.00 ()	CBYC	20.62 (15.21)	12.31 (8.38)
CBYC	0.21 (0.21)	34.00 ()	CBYD	5.21 (5.21)	()
CBYD	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
10/29/86			10/29/87		
CBYA	1.04 (0.79)	42.22 (18.88)	CBYA	1.66 (1.13)	15.36 (11.41)
CBYB	0.00 (0.00)	()	CBYC	52.50 (24.61)	21.18 (24.67)
CBYC	0.42 (0.42)	10.50 ()	CBYD	0.42 (0.42)	26.50 ()
CBYD	0.00 (0.00)	()			
5/13/87			11/12/87		
CBYA	2.71 (1.78)	33.69 (5.34)	CBYA	0.83 (0.59)	18.73 (17.30)
CBYB	2.08 (1.38)	32.10 (0.31)	CBYC	22.92 (10.96)	19.68 (12.40)
CBYC	4.79 (3.16)	50.96 (11.61)	CBYD	0.41 (0.24)	27.00 (1.82)
CBYD	4.79 (3.34)	46.75 (7.12)			
6/17/87			12/01/87		
CBYA	1.25 (1.25)	66.00 ()	CBYA	1.46 (0.99)	14.29 (1.31)
CBYB	0.00 (0.00)	()	CBYC	6.25 (3.99)	15.60 (4.75)
CBYC	0.42 (0.42)	97.50 ()	CBYD	2.29 (1.78)	16.10 (2.43)
CBYD	0.42 (0.42)	22.50 ()			
6/29/87			4/26/88		
CBYA	1.04 (0.63)	65.20 (3.77)	CBYC	20.00 (3.92)	29.91 (19.41)
CBYB	0.00 (0.00)	()	CBYD	25.21 (14.16)	18.98 (17.61)
CBYC	0.63 (0.40)	83.02 (6.32)			
CBYD	0.21 (0.21)	81.00 ()	6/01/88		
7/29/87			CBYA	0.00 (0.00)	()
CBYA	0.83 (0.59)	36.52 (12.28)	CBYB	0.41 (0.24)	9.00 (0.00)
CBYB	0.00 (0.00)	()	CBYC	6.67 (2.52)	17.56 (20.90)
CBYC	0.42 (0.42)	92.00 ()	CBYD	3.96 (1.88)	49.46 (31.58)
CBYD	0.42 (0.42)	53.00 ()			

Table 11. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of brown shrimp taken at each station in Mesquite Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.05 (0.05)	33.00 ()	CBYA	0.05 (0.05)	50.00 ()
CBYB	0.05 (0.05)	16.00 ()	CBYC	5.75 (3.29)	14.43 (23.22)
CBYC	0.22 (0.12)	42.25 (10.33)	CBYD	0.37 (0.25)	53.89 (3.91)
CBYD	0.00 (0.00)	()			
8/20/86			10/01/87		
CBYA	1.06 (0.75)	50.45 (0.71)	CBYA	0.32 (0.18)	28.57 (7.77)
CBYB	0.05 (0.05)	52.00 ()	CBYC	3.40 (1.81)	24.10 (25.79)
CBYC	0.00 (0.00)	()	CBYD	0.05 (0.05)	78.00 ()
CBYD	0.05 (0.05)	80.00 ()			
8/28/86			10/16/87		
CBYA	0.80 (0.51)	48.99 (6.42)	CBYA	1.33 (0.72)	22.41 (3.03)
CBYB	0.00 (0.00)	()	CBYC	6.22 (2.09)	18.56 (16.23)
CBYC	0.11 (0.06)	35.50 (2.52)	CBYD	0.05 (0.05)	32.00 ()
CBYD	0.37 (0.22)	29.72 (2.70)	CBYX	0.00 (0.00)	()
10/01/86			10/29/87		
CBYA	0.00 (0.00)	()	CBYA	0.16 (0.10)	37.26 (3.85)
CBYB	0.21 (0.21)	64.75 ()	CBYC	26.81 (17.50)	26.32 (43.39)
CBYC	0.11 (0.06)	22.50 (0.69)	CBYD	0.27 (0.16)	29.07 (13.45)
CBYD	0.00 (0.00)	()			
5/13/87			11/12/87		
CBYA	2.39 (1.41)	40.25 (0.53)	CBYA	0.32 (0.14)	36.14 (5.86)
CBYB	0.64 (0.41)	36.42 (2.13)	CBYC	17.87 (6.68)	27.74 (38.38)
CBYC	6.28 (3.80)	59.53 (2.37)	CBYD	0.11 (0.06)	9.00 (3.67)
CBYD	3.99 (2.86)	48.06 (6.12)			
6/17/87			12/01/87		
CBYA	1.81 (1.06)	61.24 (3.66)	CBYA	0.16 (0.10)	17.03 (1.59)
CBYB	0.85 (0.56)	79.56 (1.55)	CBYC	5.85 (2.61)	20.50 (14.13)
CBYC	2.18 (1.27)	84.78 (2.23)	CBYD	0.05 (0.05)	21.00 ()
CBYD	1.33 (0.82)	73.52 (1.99)			
6/29/87			4/26/88		
CBYA	0.75 (0.44)	55.50 (0.88)	CBYC	6.06 (1.58)	30.62 (8.89)
CBYB	0.00 (0.00)	()	CBYD	13.46 (9.13)	17.86 (4.86)
CBYC	0.58 (0.34)	100.56 (6.07)			
CBYD	0.74 (0.46)	82.92 (2.43)	6/20/88		
			CBYA	0.05 (0.05)	28.00 ()
7/29/87			CBYB	0.00 (0.00)	()
CBYA	0.42 (0.36)	62.66 (7.50)	CBYC	5.05 (1.81)	52.59 (19.83)
CBYB	0.00 (0.00)	()	CBYD	6.33 (0.47)	43.41 (29.81)
CBYC	0.11 (0.11)	94.00 ()			
CBYD	0.11 (0.11)	82.00 ()			

Table 12. Mean density (# 10m³) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Lavaca Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB45	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB633			LAB65	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()				
1/22/85			10/23/85		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633			LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
3/06/85			12/03/85		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
4/03/85			2/05/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
5/07/85			4/08/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
6/06/85			6/03/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
7/16/85			8/05/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	

Table 13. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Lavaca Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633			LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
6/06/85			6/03/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.83 (0.83)	13.00 ()
LAB85	0.00 (0.00)	()	LAB85	0.41 (0.41)	12.00 ()
7/16/85			8/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.41 (0.41)	48.00 ()	LAB613	0.00 (0.00)	()
LAB623	0.41 (0.41)	7.00 ()	LAB623	0.41 (0.41)	10.00 ()
LAB633	0.41 (0.41)	11.00 ()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()

Table 14. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Lavaca Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.42 (0.22)	21.28 (3.47)
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.22 (0.22)	11.50 ()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	10/23/85		
1/22/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.11 (0.11)	63.00 ()
LAB603	0.00 (0.00)	()	LAB613	0.22 (0.22)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.11 (0.11)	119.00 ()
LAB85	0.00 (0.00)	()	12/03/85		
3/06/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	2/05/86		
4/03/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	4/08/86		
5/07/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	6/03/86		
6/06/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.11 (0.11)	15.00 ()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.22 (0.22)	9.00 ()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB65	0.22 (0.22)	12.50 ()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.11 (0.11)	28.00 ()	8/05/86		
7/16/85			LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.43 (0.00)	57.00 (4.26)	LAB613	0.00 (0.00)	()
LAB613	0.43 (0.00)	46.75 (4.43)	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB633	0.11 (0.11)	108.00 ()	LAB65	0.00 (0.00)	()
LAB65	0.42 (0.22)	33.09 (9.00)	LAB85	0.11 (0.11)	20.00 ()
LAB85	0.00 (0.00)	()			

Table 15. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Lavaca Bay with the trawl.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB45	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB633			LAB65	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()				
1/22/85			10/23/85		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633			LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
3/06/85			12/03/85		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
4/03/85			2/05/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
5/07/85			4/08/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
6/06/85			6/03/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
7/16/85			8/05/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.00 (0.00) ()		LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	

Table 16. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in San Antonio Bay with the ichthyoplankton.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 17. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in San Antonio Bay with the benthic sled.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.21 (0.21)	13.00 ()
SABD	1.04 (0.52)	19.20 (3.03)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.83 (0.59)	14.00 (0.74)
SABC	0.41 (0.24)	6.50 (0.46)
SABD	0.21 (0.21)	18.00 ()

Table 18. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in San Antonio Bay with the seine.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.48 (0.22)	29.58 (2.71)
SABC	0.00 (0.00)	()
SABD	1.75 (0.87)	28.46 (1.06)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	2.07 (1.04)	17.03 (0.86)
SABC	0.27 (0.13)	14.21 (0.27)
SABD	0.48 (0.28)	22.78 (1.34)

Table 19. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in San Antonio Bay with the trawl.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.25 (0.25)	79.00 ()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.25 (0.25)	88.00 ()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 20. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Mesquite Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/01/86			10/01/87		
CBYA	0.00 (0.00) ()		CBYA	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		CBYC	0.00 (0.00) ()	
CBYC	0.00 (0.00) ()		CBYD	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYX	0.00 (0.00) ()	
CBYY			CBYY	0.00 (0.00) ()	
8/01/86			10/01/87		
CBYA	0.00 (0.00) ()		CBYA	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		CBYC	0.00 (0.00) ()	
CBYC	0.00 (0.00) ()		CBYD	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYE	0.00 (0.00) ()	
8/01/86			CBYF	0.00 (0.00) ()	
CBYA	0.00 (0.00) ()		CBYX	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		10/01/87		
CBYC	0.53 (0.53) 2.72 ()		CBYA	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYC	0.00 (0.00) ()	
10/01/86			CBYD	0.00 (0.00) ()	
CBYA	0.00 (0.00) ()		CBYY	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		11/01/87		
CBYC	0.00 (0.00) ()		CBYA	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYC	0.00 (0.00) ()	
5/01/87			CBYD	0.00 (0.00) ()	
CBYA	0.00 (0.00) ()		CBYX	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		12/01/87		
CBYC	0.00 (0.00) ()		CBYA	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYC	0.00 (0.00) ()	
6/17/87			CBYD	0.00 (0.00) ()	
CBYA	1.04 (1.04) 35.00 ()		CBYE	0.00 (0.00) ()	
CBYB	0.00 (0.00) ()		CBYF	0.00 (0.00) ()	
CBYC	0.00 (0.00) ()		CBYX	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		4/26/88		
6/01/87			CBYA	17.12 (14.23) 2.44 (0.80)	
CBYA	0.00 (0.00) ()		CBYC	7.36 (3.12) 2.13 (0.44)	
CBYB	0.00 (0.00) ()		CBYD	46.70 (20.77) 1.83 (0.26)	
CBYC	0.00 (0.00) ()		CBYE	8.54 (5.39) 1.86 (0.48)	
CBYD	0.00 (0.00) ()		CBYF	27.91 (1.57) ()	
CBYE	0.00 (0.00) ()		CBYX	21.49 (0.77) 1.85 (0.02)	
CBYF	0.00 (0.00) ()		6/01/88		
7/01/87			CBYA	0.00 (0.00) ()	
CBYA	0.00 (0.00) ()		CBYC	7.47 (1.44) ()	
CBYB	0.00 (0.00) ()		CBYD	0.00 (0.00) ()	
CBYC	0.00 (0.00) ()		CBYE	0.00 (0.00) ()	
CBYD	0.00 (0.00) ()		CBYF	0.00 (0.00) ()	
CBYE	0.00 (0.00) ()		CBYX	0.00 (0.00) ()	
CBYF	0.00 (0.00) ()				
9/01/87					
CBYA	0.00 (0.00) ()				
CBYC	6.20 (4.09) 2.25 ()				
CBYD	0.70 (0.70) 2.55 ()				

Table 21. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Mesquite Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/01/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.41 (0.41)	26.00 ()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.41 (0.41)	19.00 ()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	10/01/87		
8/20/86			CBYA	2.50 (2.50)	13.00 ()
CBYA	2.91 (0.42)	14.86 (1.69)	CBYC	0.41 (0.41)	13.00 ()
CBYB	2.08 (1.25)	12.00 (2.16)	CBYD	0.41 (0.41)	8.00 ()
CBYC	0.41 (0.41)	15.00 ()	10/01/87		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
8/28/86			CBYC	1.25 (0.42)	14.66 (1.84)
CBYA	1.66 (0.83)	23.25 (1.67)	CBYD	0.00 (0.00)	()
CBYB	1.25 (0.42)	19.33 (1.32)	CBYX	0.00 (0.00)	()
CBYC	0.83 (0.00)	17.00 (0.91)	10/01/87		
CBYD	0.83 (0.00)	31.50 (11.39)	CBYA	0.00 (0.00)	()
10/29/86			CBYC	0.00 (0.00)	()
CBYA	2.50 (2.50)	30.83 ()	CBYD	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	11/01/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
5/01/87			CBYD	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
6/01/87			4/01/88		
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	4.58 (1.25)	12.91 (0.96)
CBYC	0.41 (0.41)	38.00 ()	6/01/88		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
6/01/87			CBYB	0.83 (0.83)	6.00 ()
CBYA	0.00 (0.00)	()	CBYC	1.67 (0.00)	12.50 (5.82)
CBYB	0.00 (0.00)	()	CBYD	0.41 (0.41)	5.00 ()
CBYC	0.00 (0.00)	()	7/01/87		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
7/01/87			CBYB	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()			
CBYD	0.00 (0.00)	()			

Table 22. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of spotted seatrout taken at each station in Mesquite Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/01/87		
CBYA	0.11 (0.11)	24.00 ()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	1.27 (0.42)	45.75 (6.19)
CBYC	1.59 (0.53)	19.06 (1.19)	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	10/01/87		
8/20/86			CBYA	1.38 (0.32)	13.77 (0.77)
CBYA	1.38 (0.74)	20.23 (2.86)	CBYC	4.14 (0.75)	15.47 (1.51)
CBYB	0.32 (0.32)	14.00 ()	CBYD	0.00 (0.00)	()
CBYC	0.43 (0.00)	18.50 (1.64)	10/16/87		
CBYD	0.75 (0.32)	34.73 (1.53)	CBYA	0.21 (0.00)	48.50 (11.23)
8/28/86			CBYC	2.98 (0.21)	25.17 (3.99)
CBYA	0.64 (0.00)	26.00 (1.60)	CBYD	0.00 (0.00)	()
CBYB	0.11 (0.11)	12.00 ()	CBYX	0.00 (0.00)	()
CBYC	0.75 (0.10)	22.14 (2.10)	10/29/87		
CBYD	1.38 (0.53)	23.46 (1.73)	CBYA	0.11 (0.11)	55.00 ()
10/01/86			CBYC	2.02 (1.17)	36.47 (2.91)
CBYA	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	11/01/87		
CBYC	0.53 (0.53)	31.80 ()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.32 (0.32)	67.67 ()
5/01/87			CBYD	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
6/17/87			4/01/88		
CBYA	0.32 (0.11)	37.63 (2.12)	CBYC	0.00 (0.00)	()
CBYB	0.22 (0.22)	37.50 ()	CBYD	2.44 (2.44)	14.09 ()
CBYC	0.11 (0.11)	35.00 ()	6/01/88		
CBYD	1.70 (0.85)	37.19 (1.08)	CBYA	0.00 (0.00)	()
6/01/87			CBYB	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	2.23 (0.53)	30.76 (4.24)
CBYB	0.00 (0.00)	()	CBYD	0.96 (0.53)	23.33 (0.35)
CBYC	0.11 (0.11)	76.00 ()	7/29/87		
CBYD	0.32 (0.32)	46.00 ()	CBYA	0.22 (0.22)	31.50 ()
7/29/87			CBYB	0.00 (0.00)	()
CBYA	0.22 (0.22)	31.50 ()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()			
CBYD	0.00 (0.00)	()			

Table 23. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Lavaca Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	5.05 (5.05)	19.00 (0.00)	LAB603	4.93 (4.93)	11.33 (0.00)
LAB603	5.45 (1.73)	21.65 (2.77)	LAB613	1.95 (1.95)	6.00 (0.00)
LAB613	60.67 (24.74)	22.25 (5.48)	LAB623	3.56 (3.56)	13.00 (0.00)
LAB623	128.43 (4.09)	21.66 (9.34)	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.00 (0.00)	()
LAB65	3.50 (3.50)	19.00 (0.00)	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	6.33 (6.33)	22.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	1.51 (1.51)	20.00 (0.00)	LAB613	2.45 (2.45)	17.00 (0.00)
LAB623	238.18 (2.82)	21.02 (5.86)	LAB623	0.00 (0.00)	()
LAB633			LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	5.47 (5.47)	20.25 (0.00)
LAB603	0.00 (0.00)	()	LAB603	2.37 (2.37)	20.00 (0.00)
LAB613	0.00 (0.00)	()	LAB613	17.89 (10.46)	21.37 (0.29)
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	3.98 (0.39)	20.10 (1.99)
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	2.01 (2.01)	20.00 (0.00)
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	3.57 (0.40)	21.78 (3.76)	LAB603	0.00 (0.00)	()
LAB613	13.93 (13.93)	21.33 (0.00)	LAB613	0.00 (0.00)	()
LAB623	69.61 (40.40)	25.29 (1.83)	LAB623	0.00 (0.00)	()
LAB633	25.67 (4.87)	25.26 (0.27)	LAB633	0.00 (0.00)	()
LAB65	4.75 (4.75)	23.33 (0.00)	LAB65	0.00 (0.00)	()
LAB85	25.64 (6.66)	24.31 (0.07)	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	92.94 (25.34)	0.00 (0.00)	LAB45	0.00 (0.00)	()
LAB603	52.54 (24.00)	0.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	30.48 (5.73)	0.00 (0.00)	LAB613	0.00 (0.00)	()
LAB623	38.82 (0.33)	0.00 (0.00)	LAB623	28.35 (2.85)	4.78 (1.32)
LAB633	517.26 (180.69)	0.00 (0.00)	LAB633	0.00 (0.00)	()
LAB65	45.67 (0.97)	0.00 (0.00)	LAB65	0.00 (0.00)	()
LAB85	96.85 (29.35)	0.00 (0.00)	LAB85	15.14 (2.33)	5.74 (3.36)
6/04/85			6/03/86		
LAB45	9.18 (0.92)	14.53 (4.02)	LAB45	0.00 (0.00)	()
LAB603	101.06 (29.25)	13.80 (8.90)	LAB603	2.21 (2.21)	20.00 (0.00)
LAB613	12.51 (2.39)	16.54 (0.12)	LAB613	0.00 (0.00)	()
LAB623	1525.73 (591.37)	18.82 (30.61)	LAB623	0.00 (0.00)	()
LAB633	1567.58 (51.04)	18.91 (0.40)	LAB633	0.00 (0.00)	()
LAB65	11.64 (9.04)	10.29 (0.86)	LAB65	0.00 (0.00)	()
LAB85	724.32 (81.86)	17.50 (8.56)	LAB85	1.50 (1.50)	21.00 (0.00)
7/16/85			8/05/86		
LAB45	51.72 (22.69)	14.42 (4.30)	LAB45	0.00 (0.00)	()
LAB603	1.87 (1.87)	13.40 (0.00)	LAB603	0.00 (0.00)	()
LAB613	7.58 (0.13)	8.00 (0.00)	LAB613	0.00 (0.00)	()
LAB623	5.04 (5.04)	11.00 (0.00)	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	16.16 (16.16)	0.00 (0.00)
LAB65	5.04 (1.31)	7.37 (1.08)	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()

Table 24. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Lavaca Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.83 (0.83)	21.50 (0.00)
LAB45	10.00 (8.33)	18.09 (0.56)	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.83 (0.83)	20.00 (0.00)
LAB613	0.00 (0.00)	()	LAB623	0.83 (0.00)	19.00 (0.91)
LAB623	0.00 (0.00)	()	LAB633	0.41 (0.41)	18.00 (0.00)
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
1/23/85			10/23/85		
LAB45	0.83 (0.83)	21.50 (0.00)	LAB45	0.00 (0.00)	()
LAB603	1.66 (1.66)	22.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.83 (0.83)	19.50 (0.00)
LAB623	0.00 (0.00)	()	LAB623	0.41 (0.41)	17.00 (0.00)
LAB65	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
3/06/85			12/04/85		
LAB45	1.25 (1.25)	21.00 (0.00)	LAB45	0.83 (0.83)	20.50 (0.00)
LAB603	0.00 (0.00)	()	LAB603	5.41 (2.08)	19.77 (1.52)
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	5.41 (5.41)	21.85 (0.00)	LAB65	1.25 (1.25)	19.67 (0.00)
LAB85	0.41 (0.41)	21.00 (0.00)	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.41 (0.41)	26.00 (0.00)	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	1.66 (0.83)	31.25 (0.56)
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	5.00 (1.67)	23.83 (0.66)	LAB65	0.00 (0.00)	()
LAB85	12.50 (12.50)	25.13 (0.00)	LAB85	0.00 (0.00)	()
5/07/85			4/09/86		
LAB45	0.00 (0.00)	()	LAB45	0.41 (0.41)	17.00 (0.00)
LAB603	0.41 (0.41)	18.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.41 (0.41)	20.00 (0.00)	LAB613	0.00 (0.00)	()
LAB623	2.91 (0.42)	19.14 (0.28)	LAB623	0.00 (0.00)	()
LAB633	8.33 (2.50)	19.65 (2.56)	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	18.33 (11.66)	18.46 (0.92)	LAB85	0.00 (0.00)	()
6/07/85			6/04/86		
LAB45	1.25 (0.42)	19.34 (3.42)	LAB45	3.33 (0.83)	20.12 (0.29)
LAB603	0.00 (0.00)	()	LAB603	0.41 (0.41)	31.00 (0.00)
LAB613	1.25 (0.42)	18.66 (2.63)	LAB613	0.41 (0.41)	0.00 (0.00)
LAB623	0.00 (0.00)	()	LAB623	0.41 (0.41)	23.00 (0.00)
LAB633	0.41 (0.41)	30.00 (0.00)	LAB633	0.00 (0.00)	()
LAB65	0.41 (0.41)	20.00 (0.00)	LAB65	2.08 (1.25)	21.80 (2.02)
LAB85	1.66 (1.66)	19.50 (0.00)	LAB85	0.00 (0.00)	()
7/17/85			8/05/86		
LAB45	2.08 (1.25)	19.99 (7.20)	LAB45	0.00 (0.00)	()
LAB603	0.41 (0.41)	23.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.83 (0.83)	17.00 (0.00)	LAB613	0.00 (0.00)	()
LAB623	0.83 (0.83)	20.00 (0.00)	LAB623	0.41 (0.41)	21.00 (0.00)
LAB633	0.00 (0.00)	()	LAB633	0.41 (0.41)	30.00 (0.00)
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	1.25 (0.42)	21.33 (0.53)	LAB85	0.00 (0.00)	()

Table 25. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Lavaca Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	95.00 (29.04)	22.30 (4.55)
LAB45	9.47 (9.47)	23.31 (0.00)	LAB603	195.00 (40.74)	23.49 (3.96)
LAB603	0.11 (0.11)	24.00 (0.00)	LAB613	82.87 (61.81)	23.38 (18.07)
LAB613	2.44 (2.44)	26.43 (0.00)	LAB623	27.12 (16.06)	22.19 (1.15)
LAB623	2.34 (2.34)	21.68 (0.00)	LAB633	7.02 (2.34)	31.14 (4.68)
LAB65	19.47 (19.47)	22.16 (0.00)	LAB65	3.83 (0.21)	25.47 (2.18)
LAB85	0.00 (0.00)	()	LAB85	42.13 (20.22)	21.51 (3.42)
1/23/85			10/22/85		
LAB45	0.32 (0.11)	19.66 (0.13)	LAB45	13.20 (8.09)	0.00 (0.00)
LAB603	0.22 (0.22)	22.50 (0.00)	LAB603	455.32 (354.25)	20.40 (0.00)
LAB613	0.00 (0.00)	()	LAB613	117.98 (56.70)	21.74 (0.00)
LAB623	0.00 (0.00)	()	LAB623	18.93 (12.56)	20.52 (6.22)
LAB65	0.00 (0.00)	()	LAB633	334.04 (253.61)	21.53 (5.23)
LAB85	0.00 (0.00)	()	LAB65	39.26 (25.85)	23.11 (12.54)
3/06/85			12/04/85		
LAB45	7.34 (2.87)	21.61 (0.75)	LAB45	73.93 (17.98)	27.17 (7.55)
LAB603	3.08 (2.03)	29.18 (5.74)	LAB603	293.83 (223.19)	20.40 (1.11)
LAB613	106.27 (59.05)	24.37 (3.90)	LAB613	4.79 (2.87)	21.71 (0.44)
LAB623	1.60 (1.17)	37.42 (5.03)	LAB623	0.00 (0.00)	()
LAB633	0.22 (0.22)	45.00 (0.00)	LAB633	12.24 (10.96)	27.77 (0.74)
LAB65	33.20 (15.10)	23.91 (1.54)	LAB65	7.02 (4.47)	21.64 (1.01)
LAB85	31.07 (9.79)	24.66 (0.77)	LAB85	0.11 (0.11)	28.00 (0.00)
4/03/85			2/05/86		
LAB45	1.91 (1.48)	34.11 (1.42)	LAB45	0.42 (0.42)	30.00 (0.00)
LAB603	0.00 (0.00)	()	LAB603	3.94 (0.32)	31.59 (1.20)
LAB613	0.64 (0.00)	25.50 (0.94)	LAB613	2.02 (1.38)	32.11 (3.43)
LAB623	3.40 (2.97)	26.81 (1.11)	LAB623	1.06 (0.64)	27.93 (5.23)
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	222.77 (31.49)	24.61 (2.59)	LAB65	0.11 (0.11)	34.00 (0.00)
LAB85	4.58 (4.36)	25.39 (0.20)	LAB85	0.00 (0.00)	()
5/07/85			4/09/86		
LAB45	37.24 (15.95)	25.03 (1.57)	LAB45	36.38 (8.51)	29.82 (3.81)
LAB603	98.29 (22.55)	28.40 (0.58)	LAB603	89.79 (19.36)	26.21 (4.16)
LAB613	0.32 (0.32)	19.67 (0.00)	LAB613	20.96 (20.53)	25.30 (10.58)
LAB623	9.79 (5.53)	24.41 (6.45)	LAB623	7.02 (4.89)	32.21 (4.92)
LAB633	6.17 (1.28)	21.47 (0.11)	LAB633	6.28 (0.74)	29.48 (3.88)
LAB65	229.15 (79.79)	22.50 (4.54)	LAB65	8.20 (1.59)	28.83 (1.81)
LAB85	23.29 (7.76)	20.64 (0.57)	LAB85	3.19 (2.77)	25.90 (1.39)
6/05/85			6/04/86		
LAB45	30.00 (0.64)	23.23 (2.19)	LAB45	320.43 (66.81)	21.88 (9.63)
LAB603	42.45 (13.73)	34.27 (6.29)	LAB603	33.30 (14.15)	26.18 (1.10)
LAB613	53.72 (32.02)	22.29 (6.59)	LAB613	103.73 (81.39)	20.30 (0.69)
LAB623	215.53 (161.28)	22.62 (13.83)	LAB623	0.32 (0.11)	37.74 (4.85)
LAB633	11.17 (11.17)	27.03 (0.00)	LAB633	19.25 (3.52)	24.81 (3.41)
LAB65	85.43 (43.94)	21.50 (7.13)	LAB65	149.57 (67.87)	21.41 (5.89)
LAB85	145.21 (30.53)	20.66 (1.53)	LAB85	0.22 (0.22)	26.00 (0.00)
7/17/85			8/06/86		
LAB45	54.04 (4.68)	24.82 (2.12)	LAB45	5.42 (1.59)	29.31 (0.35)
LAB603	60.00 (27.02)	26.15 (2.63)	LAB603	36.39 (28.73)	26.24 (4.28)
LAB613	2.87 (2.66)	31.08 (4.32)	LAB613	5.54 (2.55)	27.38 (0.34)
LAB623	88.19 (14.57)	24.33 (11.86)	LAB623	31.27 (23.41)	34.80 (3.19)
LAB633	0.00 (0.00)	()	LAB633	13.30 (1.60)	32.26 (4.67)
LAB65	5.21 (0.75)	31.91 (0.78)	LAB65	161.38 (140.53)	24.69 (17.99)
LAB85	16.17 (2.55)	24.66 (2.06)	LAB85	162.55 (156.17)	21.62 (10.38)

Table 26. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of bay anchovy at each station in Lavaca Bay with the trawl.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/13/85		
LAB190	0.00 (0.00)	()	LAB45	32.00 (11.27)	30.85 (4.86)
LAB45	3.33 (2.85)	28.50 (10.06)	LAB603	12.00 (3.06)	40.47 (1.71)
LAB603	0.00 (0.00)	()	LAB613	1.67 (1.20)	41.40 (2.85)
LAB613	0.00 (0.00)	()	LAB623	2.33 (0.88)	40.71 (1.94)
LAB623	3.67 (0.67)	37.82 (2.35)	LAB633	7.67 (1.76)	42.35 (3.01)
LAB65	10.67 (3.84)	41.22 (6.10)	LAB65	13.33 (4.98)	41.87 (2.04)
LAB85	1.33 (0.88)	41.50 (1.22)	LAB85	3.67 (1.45)	44.45 (5.75)
1/22/85			10/23/85		
LAB45	2.00 (0.58)	27.50 (3.20)	LAB45	3.33 (0.33)	40.03 (3.53)
LAB603	0.33 (0.33)	23.00 (0.00)	LAB603	4.33 (1.67)	0.00 (0.00)
LAB613	0.00 (0.00)	()	LAB613	3.33 (1.45)	31.70 (7.23)
LAB623	2.33 (1.86)	29.57 (7.31)	LAB623	0.33 (0.33)	35.00 (0.00)
LAB65	3.33 (1.86)	30.40 (0.60)	LAB633	0.67 (0.67)	40.50 (0.00)
LAB85	11.00 (4.04)	23.64 (2.27)	LAB65	7.67 (3.67)	44.91 (5.71)
3/06/85			LAB85	0.33 (0.33)	40.00 (0.00)
LAB45	0.33 (0.33)	38.00 (0.00)	12/03/85		
LAB603	1.67 (0.67)	28.80 (5.20)	LAB45	29.33 (3.71)	36.36 (5.60)
LAB613	1.00 (1.00)	43.67 (0.00)	LAB603	19.33 (5.61)	23.67 (2.89)
LAB623	0.00 (0.00)	()	LAB613	4.00 (2.31)	40.67 (9.81)
LAB633	2.00 (0.00)	37.17 (5.63)	LAB623	7.67 (4.98)	25.83 (6.70)
LAB65	7.33 (3.76)	37.77 (1.64)	LAB633	7.33 (3.33)	23.91 (4.19)
LAB85	5.33 (2.91)	31.00 (10.58)	LAB65	3.67 (0.67)	27.55 (0.87)
4/02/85			LAB85	49.67 (34.70)	35.73 (3.19)
LAB45	8.33 (3.48)	34.44 (1.94)	2/05/86		
LAB603	0.67 (0.33)	23.50 (0.50)	LAB45	0.67 (0.67)	22.00 (0.00)
LAB613	3.33 (1.86)	34.30 (8.14)	LAB603	1.67 (0.67)	27.00 (4.11)
LAB623	2.00 (1.00)	42.33 (2.09)	LAB613	1.00 (1.00)	23.50 (0.00)
LAB633	35.67 (33.67)	31.74 (3.69)	LAB623	3.33 (1.45)	35.20 (3.27)
LAB65	2.33 (1.86)	39.86 (3.71)	LAB633	0.33 (0.33)	40.00 (0.00)
LAB85	2.67 (0.33)	27.50 (4.95)	LAB65	1.00 (0.58)	24.00 (2.60)
5/07/85			LAB85	0.33 (0.33)	24.00 (0.00)
LAB45	0.33 (0.33)	37.00 (0.00)	4/08/86		
LAB603	0.00 (0.00)	()	LAB45	9.33 (4.48)	39.32 (1.68)
LAB613	3.00 (1.15)	28.89 (5.25)	LAB603	5.33 (2.60)	38.94 (3.33)
LAB623	1.00 (0.58)	37.00 (0.87)	LAB613	113.00 (112.50)	25.51 (1.78)
LAB633	11.67 (4.81)	40.80 (2.74)	LAB623	3.67 (0.33)	32.27 (6.41)
LAB65	8.33 (4.06)	31.76 (6.80)	LAB633	1.00 (0.58)	40.33 (5.77)
LAB85	2.67 (1.20)	37.13 (4.76)	LAB65	1.00 (0.58)	31.67 (3.75)
6/06/85			LAB85	19.33 (8.41)	32.93 (4.88)
LAB45	2.67 (2.19)	40.75 (0.95)	6/03/86		
LAB603	5.33 (0.88)	34.56 (5.52)	LAB45	0.00 (0.00)	()
LAB613	14.67 (1.86)	40.20 (0.97)	LAB603	2.67 (0.33)	33.00 (2.75)
LAB623	4.67 (3.18)	43.29 (11.41)	LAB613	1.67 (1.20)	36.40 (12.17)
LAB633	0.00 (0.00)	()	LAB623	1.00 (0.58)	30.67 (4.62)
LAB65	3.67 (1.67)	40.45 (6.52)	LAB633	1.67 (0.67)	47.60 (12.13)
LAB85	0.00 (0.00)	()	LAB65	1.33 (1.33)	39.00 (0.00)
7/16/85			LAB85	1.00 (0.58)	44.33 (17.61)
LAB45	0.33 (0.33)	37.00 (0.00)	8/05/86		
LAB603	4.67 (1.20)	38.29 (1.31)	LAB45	5.33 (2.33)	30.87 (2.81)
LAB613	3.00 (1.15)	42.89 (4.87)	LAB603	7.33 (1.20)	36.18 (2.76)
LAB623	2.67 (1.45)	43.13 (0.84)	LAB613	6.50 (4.50)	72.38 (58.03)
LAB633	1.00 (0.58)	37.00 (3.46)	LAB623	42.33 (12.60)	40.35 (2.77)
LAB65	18.67 (6.94)	34.79 (3.95)	LAB633	12.33 (0.88)	45.06 (4.14)
LAB85	13.67 (6.36)	41.78 (2.99)	LAB65	71.00 (13.50)	39.79 (4.88)
			LAB85	29.00 (10.50)	41.26 (3.29)

Table 27. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in San Antonio Bay with the ichthyoplankton.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.63 (0.63)	30.00 (0.00)
SABB	2.00 (1.26)	28.04 (4.27)
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.79 (0.79)	31.00 (0.00)
SABB	0.82 (0.82)	30.00 (0.00)
SABC	0.00 (0.00)	()
SABD	0.79 (0.79)	0.00 (0.00)
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	2.20 (2.20)	0.00 (0.00)
SABD	92.68 (53.51)	0.00 (0.00)
6/03/87		
SABA	81.93 (9.73)	9.52 (5.25)
SABB	92.78 (14.95)	0.00 (0.00)
SABC	364.45 (97.24)	12.80 (0.00)
SABD	86.64 (10.71)	10.23 (2.35)
7/14/87		
SABA	12.15 (11.25)	8.00 (0.00)
SABB	2.25 (2.25)	13.00 (0.00)
SABC	15.83 (4.13)	9.86 (3.82)
SABD	0.67 (0.67)	9.00 (0.00)
7/01/88		
SABA	0.78 (0.78)	0.00 (0.00)
SABB	8.14 (4.50)	0.00 (0.00)
SABC	12035.00 (969.00)	0.00 (0.00)
SABD	691.04 (202.44)	0.00 (0.00)

Table 28. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in San Antonio Bay with the benthic sled.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.63 (0.63)	20.00 (0.00)
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.21 (0.21)	18.00 (0.00)
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	2.29 (1.04)	19.63 (1.77)
SABC	2.29 (1.15)	16.64 (1.00)
SABD	0.21 (0.21)	16.00 (0.00)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.42 (0.42)	19.00 (0.00)
SABD	0.42 (0.42)	27.00 (0.00)
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.21 (0.21)	16.00 (0.00)
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 29. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in San Antonio Bay with the seine.

Station	Mean Density	Mean Length
11/19/86		
SABA	0.16 (0.16)	39.00 (0.00)
SABB	0.05 (0.05)	20.00 (0.00)
SABC	0.11 (0.11)	21.00 (0.00)
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/03/87		
SABA	1.81 (1.45)	22.29 (0.47)
SABB	7.39 (1.93)	24.06 (1.59)
SABC	3.35 (1.83)	22.01 (1.39)
SABD	0.16 (0.10)	17.59 (4.12)
7/14/87		
SABA	1.06 (0.66)	25.20 (0.87)
SABB	0.27 (0.16)	31.20 (0.12)
SABC	2.77 (1.59)	24.46 (0.44)
SABD	0.38 (0.13)	28.29 (1.37)
7/01/88		
SABA	1.49 (0.23)	34.75 (2.61)
SABB	0.05 (0.05)	26.00 (0.00)
SABC	2.71 (1.89)	24.68 (4.32)
SABD	0.05 (0.05)	37.00 (0.00)

Table 30. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in San Antonio Bay with the trawl.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.50 (0.50)	39.50 (0.00)
SABB	1.00 (0.71)	44.75 (9.60)
SABC	5.00 (2.08)	39.00 (5.61)
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.50 (0.29)	42.00 (11.00)
SABB	13.50 (4.21)	34.65 (8.93)
SABC	9.25 (3.42)	37.13 (2.81)
SABD	7.75 (2.56)	42.68 (2.10)
3/03/87		
SABA	0.00 (0.00)	()
SABB	3.50 (1.44)	39.15 (3.44)
SABC	41.50 (10.84)	39.51 (4.11)
SABD	16.50 (4.52)	42.03 (2.54)
4/06/87		
SABA	2.75 (1.60)	35.27 (3.70)
SABB	4.50 (1.26)	41.31 (2.64)
SABC	1.75 (0.85)	41.14 (0.83)
SABD	14.75 (3.07)	53.90 (19.88)
6/02/87		
SABA	2.75 (1.03)	49.55 (1.05)
SABB	4.25 (1.18)	48.65 (4.73)
SABC	7.50 (0.65)	51.87 (0.77)
SABD	27.25 (4.35)	51.02 (2.67)
7/14/87		
SABA	1.00 (0.41)	41.25 (1.57)
SABB	3.50 (1.50)	37.71 (4.48)
SABC	10.50 (1.71)	42.14 (6.53)
SABD	41.00 (13.24)	37.35 (3.04)
7/01/88		
SABA	0.50 (0.50)	43.50 (0.00)
SABB	0.25 (0.25)	16.00 (0.00)
SABC	7.75 (1.65)	42.23 (2.45)
SABD	3.75 (2.59)	44.93 (0.52)

Table 31. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Mesquite Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			10/01/87		
CBYA	1.15 (0.43)	4.89 (0.56)	CBYA	0.00 (0.00)	()
CBYB	142.00 (142.00)	0.00 (0.00)	CBYC	0.00 (0.00)	()
CBYC	35.99 (0.93)	5.71 (0.15)	CBYD	0.00 (0.00)	()
CBYD	10.41 (9.90)	7.36 (0.00)	CBYX	0.00 (0.00)	()
8/20/86			10/16/87		
CBYA	9.70 (9.70)	3.99 (0.00)	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	14.99 (9.46)	5.04 (0.00)	CBYD	0.00 (0.00)	()
CBYD	12.08 (10.89)	3.90 (0.00)	CBYE	0.00 (0.00)	()
8/28/86			10/29/87		
CBYA	12.82 (4.57)	4.56 (0.17)	CBYA	0.00 (0.00)	()
CBYB	5.08 (0.73)	4.55 (1.35)	CBYC	0.00 (0.00)	()
CBYC	333.12 (329.98)	4.88 (0.00)	CBYD	0.00 (0.00)	()
CBYD	1.36 (0.49)	0.00 (0.00)	CBYX	0.00 (0.00)	()
10/28/86			11/12/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
5/13/87			12/01/87		
CBYA	5.28 (0.40)	7.20 (0.26)	CBYA	0.00 (0.00)	()
CBYB	1.44 (1.44)	0.00 (0.00)	CBYC	0.00 (0.00)	()
CBYC	0.67 (0.67)	5.92 (0.00)	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
6/17/87			4/26/88		
CBYA	1080.50 (218.13)	21.36 (6.46)	CBYA	7831.13 (443.86)	0.00 (0.00)
CBYB	9.63 (3.36)	20.02 (12.45)	CBYC	5670.00 (21.68)	0.00 (0.00)
CBYC	3.61 (0.15)	21.94 (2.16)	CBYD	409.15 (36.94)	0.00 (0.00)
CBYD	49.32 (39.90)	21.83 (16.32)	CBYE	509.70 (340.55)	0.00 (0.00)
CBYF	1409.85 (*****)	19.45 (6.09)	CBYF	16970.13 (*****)	0.00 (0.00)
6/29/87			6/20/88		
CBYA	2.31 (1.32)	19.99 (1.33)	CBYA	1565.22 (258.98)	0.00 (0.00)
CBYB	0.00 (0.00)	()	CBYC	78.07 (28.16)	0.00 (0.00)
CBYC	0.00 (0.00)	()	CBYD	25.14 (6.00)	0.00 (0.00)
CBYD	0.00 (0.00)	()	CBYE	80.23 (79.46)	0.00 (0.00)
CBYE	5.93 (2.67)	17.37 (1.09)	CBYF	0.00 (0.00)	()
CBYF	5.54 (0.61)	22.24 (8.09)	CBYX	401.44 (105.80)	0.00 (0.00)
7/29/87			9/21/87		
CBYA	0.52 (0.52)	26.00 (0.00)	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	25.24 (11.81)	0.00 (0.00)
CBYC	0.00 (0.00)	()	CBYD	12.13 (12.13)	0.00 (0.00)
CBYD	0.00 (0.00)	()			
CBYE	0.95 (0.50)	8.96 (0.00)			
CBYF	0.00 (0.00)	()			

Table 32. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Mesquite Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.53 (0.53)	44.40 (0.00)
CBYC	0.00 (0.00)	()	CBYD	1.17 (0.32)	28.18 (2.10)
CBYD	0.00 (0.00)	()	10/01/87		
8/20/86			CBYA	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.64 (0.64)	32.83 (0.00)
CBYB	0.11 (0.11)	33.00 (0.00)	CBYD	1.17 (0.74)	37.71 (4.73)
CBYC	0.00 (0.00)	()	10/16/87		
CBYD	0.00 (0.00)	()	CBYA	1.38 (0.74)	30.85 (3.11)
8/28/86			CBYC	0.00 (0.00)	()
CBYA	0.22 (0.22)	38.50 (0.00)	CBYD	0.54 (0.11)	46.02 (3.59)
CBYB	0.75 (0.10)	34.29 (1.53)	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/29/87		
CBYD	0.22 (0.22)	44.00 (0.00)	CBYA	5.11 (1.28)	27.67 (2.03)
10/28/86			CBYC	3.08 (1.59)	44.83 (0.08)
CBYA	0.00 (0.00)	()	CBYD	1.17 (0.11)	19.27 (0.52)
CBYB	0.95 (0.75)	34.34 (1.15)	11/12/87		
CBYC	2.02 (1.38)	23.53 (9.74)	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.22 (0.22)	19.00 (0.00)
5/13/87			CBYD	0.00 (0.00)	()
CBYA	0.11 (0.11)	53.00 (0.00)	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
6/17/87			4/26/88		
CBYA	21.17 (6.91)	24.98 (2.87)	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	6/20/88		
CBYD	1.20 (0.51)	28.59 (1.18)	CBYA	2.34 (0.64)	26.86 (1.57)
6/29/87			CBYB	1.06 (1.06)	26.00 (0.00)
CBYA	6.49 (2.87)	29.93 (0.01)	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	2.45 (0.32)	29.83 (3.88)
CBYC	0.00 (0.00)	()	7/29/87		
CBYD	77.76 (21.80)	27.43 (5.08)	CBYA	0.11 (0.11)	45.00 (0.00)
7/29/87			CBYB	0.00 (0.00)	()
CBYA	0.11 (0.11)	45.00 (0.00)	CBYC	4.04 (3.62)	40.25 (0.12)
CBYB	0.00 (0.00)	()	CBYD	1.59 (0.53)	37.00 (1.43)
CBYC	4.04 (3.62)	40.25 (0.12)			
CBYD	1.59 (0.53)	37.00 (1.43)			

Table 33. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of bay anchovy taken at each station in Mesquite Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.53 (0.53)	44.40 (0.00)
CBYC	0.00 (0.00)	()	CBYD	1.17 (0.32)	28.18 (2.10)
CBYD	0.00 (0.00)	()	10/01/87		
8/20/86			CBYA	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.64 (0.64)	32.83 (0.00)
CBYB	0.11 (0.11)	33.00 (0.00)	CBYD	1.17 (0.74)	37.71 (4.73)
CBYC	0.00 (0.00)	()	10/16/87		
CBYD	0.00 (0.00)	()	CBYA	1.38 (0.74)	30.85 (3.11)
8/28/86			CBYB	0.00 (0.00)	()
CBYA	0.22 (0.22)	38.50 (0.00)	CBYD	0.54 (0.11)	46.02 (3.59)
CBYB	0.75 (0.10)	34.29 (1.53)	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/29/87		
CBYD	0.22 (0.22)	44.00 (0.00)	CBYA	5.11 (1.28)	27.67 (2.03)
10/28/86			CBYC	3.08 (1.59)	44.83 (0.08)
CBYA	0.00 (0.00)	()	CBYD	1.17 (0.11)	19.27 (0.52)
CBYB	0.95 (0.75)	34.34 (1.15)	11/12/87		
CBYC	2.02 (1.38)	23.53 (9.74)	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.22 (0.22)	19.00 (0.00)
5/13/87			CBYD	0.00 (0.00)	()
CBYA	0.11 (0.11)	53.00 (0.00)	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
6/17/87			4/26/88		
CBYA	21.17 (6.91)	24.98 (2.87)	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	6/20/88		
CBYD	1.20 (0.51)	28.59 (1.18)	CBYA	2.34 (0.64)	26.86 (1.57)
6/29/87			CBYB	1.06 (1.06)	26.00 (0.00)
CBYA	6.49 (2.87)	29.93 (0.01)	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	2.45 (0.32)	29.83 (3.88)
CBYC	0.00 (0.00)	()	7/29/87		
CBYD	77.76 (21.80)	27.43 (5.08)	CBYA	0.11 (0.11)	45.00 (0.00)
7/29/87			CBYB	0.00 (0.00)	()
CBYA	0.11 (0.11)	45.00 (0.00)	CBYC	4.04 (3.62)	40.25 (0.12)
CBYB	0.00 (0.00)	()	CBYD	1.59 (0.53)	37.00 (1.43)
CBYC	4.04 (3.62)	40.25 (0.12)			
CBYD	1.59 (0.53)	37.00 (1.43)			

Table 34. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Lavaca Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB633	3.54 (3.54)	8.50 ()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	1.96 (1.96)	10.00 ()
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	1.51 (1.51)	10.00 ()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	4.10 (0.25)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	3.20 (3.20)	11.00 ()
6/06/85			6/03/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	2.60 (2.60)	10.00 ()	LAB623	0.00 (0.00)	()
LAB633	1.93 (1.93)	7.00 ()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	27.69 (13.76)	6.88 (1.69)	LAB85	0.00 (0.00)	()
7/16/85			8/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	5.46 (5.46)	9.00 ()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	6.21 (6.21)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()

Table 35. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Lavaca Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB45	2.08 (1.25)	30.00 (4.00)	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	2.09 (0.42)	38.34 (5.34)
LAB613	0.83 (0.00)	42.00 (6.00)	LAB613	21.25 (4.58)	21.44 (0.69)
LAB623	0.00 (0.00)	()	LAB623	2.50 (2.50)	16.33 (0.00)
LAB633			LAB633	8.33 (0.00)	14.15 (0.35)
LAB65	0.42 (0.42)	45.00 (0.00)	LAB65	0.42 (0.42)	10.00 (0.00)
LAB85	0.42 (0.42)	21.00 (0.00)	LAB85	1.25 (0.42)	10.75 (0.25)
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	5.83 (0.00)	16.86 (0.15)
LAB623	0.00 (0.00)	()	LAB623	0.42 (0.42)	32.00 (0.00)
LAB633			LAB633	0.42 (0.42)	13.00 (0.00)
LAB65	0.00 (0.00)	()	LAB65	0.42 (0.42)	38.00 (0.00)
LAB85	0.00 (0.00)	()	LAB85	1.67 (0.84)	12.84 (1.84)
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.42 (0.42)	52.00 (0.00)
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.42 (0.42)	11.00 (0.00)
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
6/06/85			6/04/86		
LAB45	0.00 (0.00)	()	LAB45	10.42 (0.42)	17.91 (0.41)
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	19.17 (19.17)	12.78 (0.00)
LAB623	0.42 (0.42)	8.00 (0.00)	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.84 (0.84)	36.50 (0.00)	LAB65	70.00 (16.67)	13.02 (0.12)
LAB85	0.00 (0.00)	()	LAB85	9.58 (8.75)	11.18 (1.18)
7/17/85			8/06/86		
LAB45	2.92 (2.92)	30.00 (0.00)	LAB45	2.09 (2.09)	19.80 (0.00)
LAB603	3.75 (0.42)	20.83 (3.43)	LAB603	0.00 (0.00)	()
LAB613	81.25 (18.75)	14.76 (0.12)	LAB613	25.42 (12.09)	24.48 (6.08)
LAB623	26.67 (25.84)	10.40 (0.60)	LAB623	1.67 (0.00)	52.75 (19.75)
LAB633	3.33 (0.00)	15.63 (4.63)	LAB633	1.25 (0.42)	35.25 (19.25)
LAB65	71.25 (29.58)	11.57 (0.87)	LAB65	1.67 (1.67)	17.25 (0.00)
LAB85	3.34 (3.34)	17.00 (0.00)	LAB85	1.25 (0.42)	65.50 (27.50)

Table 36. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Lavaca Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.64 (0.21)	108.82 (2.17)
LAB45	0.00 (0.00)	()	LAB603	9.79 (1.91)	58.51 (14.91)
LAB603	0.00 (0.00)	()	LAB613	129.37 (8.94)	31.11 (25.42)
LAB613	0.11 (0.11)	43.00 ()	LAB623	0.96 (0.32)	67.00 (11.32)
LAB623	0.00 (0.00)	()	LAB633	1.49 (0.00)	46.71 (24.41)
LAB65	0.00 (0.00)	()	LAB65	0.42 (0.22)	115.01 (1.12)
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
1/22/85			10/22/85		
LAB45	0.00 (0.00)	()	LAB45	1.17 (0.32)	()
LAB603	0.00 (0.00)	()	LAB603	12.56 (4.46)	51.87 ()
LAB613	0.00 (0.00)	()	LAB613	6.60 (0.85)	32.36 (25.25)
LAB623	0.00 (0.00)	()	LAB623	0.75 (0.10)	85.01 (5.48)
LAB65	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB65	0.64 (0.43)	94.84 (1.72)
3/06/85			12/04/85		
LAB45	0.00 (0.00)	()	LAB45	0.22 (0.22)	46.00 ()
LAB603	0.00 (0.00)	()	LAB603	0.11 (0.11)	37.00 ()
LAB613	0.00 (0.00)	()	LAB613	0.11 (0.11)	58.00 ()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.11 (0.11)	66.00 ()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.11 (0.11)	10.00 ()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
6/06/85			6/04/86		
LAB45	0.00 (0.00)	()	LAB45	0.32 (0.32)	30.33 ()
LAB603	0.00 (0.00)	()	LAB603	0.64 (0.43)	30.65 (4.03)
LAB613	0.00 (0.00)	()	LAB613	9.47 (3.09)	30.16 (8.03)
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.11 (0.11)	29.00 ()
LAB65	0.00 (0.00)	()	LAB65	2.97 (1.06)	16.68 (0.25)
LAB85	0.00 (0.00)	()	LAB85	0.22 (0.22)	34.00 ()
7/17/85			8/06/86		
LAB45	0.75 (0.32)	30.04 (4.93)	LAB45	1.06 (0.85)	44.75 (16.13)
LAB603	2.23 (1.59)	58.34 (6.51)	LAB603	4.25 (0.21)	74.37 (4.84)
LAB613	118.72 (49.78)	21.34 (24.93)	LAB613	233.83 (160.85)	29.80 (33.41)
LAB623	4.25 (2.55)	40.18 (10.88)	LAB623	1.59 (1.38)	63.71 (7.81)
LAB633	0.00 (0.00)	()	LAB633	1.59 (0.53)	57.61 (7.14)
LAB65	6.92 (1.38)	20.25 (6.48)	LAB65	2.55 (0.00)	36.88 (13.65)
LAB85	2.44 (0.74)	41.52 (1.69)	LAB85	3.08 (0.54)	40.90 (3.29)

Table 37. Mean density (# / tow) and mean length (mm) (± 1 SE) of white shrimp taken at each station in Lavaca Bay with the trawl.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/13/85		
LAB190	0.00 (0.00)	()	LAB45	13.33 (4.67)	86.20 (19.69)
LAB45	92.67 (4.48)	69.17 (41.44)	LAB603	29.33 (4.84)	67.93 (5.20)
LAB603	7.67 (1.76)	51.78 (8.79)	LAB613	3.33 (1.86)	66.50 (8.15)
LAB613	13.33 (6.36)	54.62 (13.08)	LAB623	6.67 (2.40)	102.80 (16.24)
LAB623	14.67 (2.40)	43.93 (9.59)	LAB633	11.33 (5.24)	83.14 (31.73)
LAB65	76.00 (24.00)	80.53 (16.55)	LAB65	3.00 (2.00)	95.89 (28.51)
LAB85	7.33 (1.20)	55.05 (2.89)	LAB85	2.67 (0.88)	120.13 (1.38)
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	3.33 (0.67)	86.60 (6.22)
LAB603	0.00 (0.00)	()	LAB603	4.33 (1.20)	()
LAB613	0.00 (0.00)	()	LAB613	22.33 (5.21)	59.03 (3.16)
LAB623	0.00 (0.00)	()	LAB623	4.00 (2.52)	88.75 (6.41)
LAB65	0.00 (0.00)	()	LAB633	8.33 (3.38)	71.76 (2.95)
LAB85	0.00 (0.00)	()	LAB65	1.67 (0.67)	65.60 (15.48)
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	1.67 (0.33)	45.20 (8.78)
LAB603	0.00 (0.00)	()	LAB603	24.67 (1.45)	56.80 (3.23)
LAB613	0.00 (0.00)	()	LAB613	7.67 (1.20)	58.17 (2.91)
LAB623	0.00 (0.00)	()	LAB623	1.00 (1.00)	45.67 ()
LAB633	0.33 (0.33)	72.00 ()	LAB633	3.67 (2.67)	45.18 (4.90)
LAB65	0.00 (0.00)	()	LAB65	0.67 (0.33)	89.00 (10.00)
LAB85	0.00 (0.00)	()	LAB85	2.33 (0.67)	65.89 (9.43)
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.33 (0.33)	68.00 ()
LAB613	0.00 (0.00)	()	LAB613	1.00 (0.00)	44.00 (1.00)
LAB623	0.00 (0.00)	()	LAB623	2.33 (1.45)	59.29 (8.62)
LAB633	0.00 (0.00)	()	LAB633	0.67 (0.33)	44.50 (0.50)
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	1.00 (0.58)	52.33 (0.58)
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	1.00 (1.00)	91.33 ()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.33 (0.33)	112.00 ()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
6/06/85			6/03/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.33 (0.33)	21.00 ()
LAB623	0.00 (0.00)	()	LAB623	0.33 (0.33)	12.00 ()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
7/16/85			8/05/86		
LAB45	17.33 (5.17)	59.75 (12.48)	LAB45	7.00 (2.52)	54.86 (9.43)
LAB603	9.67 (1.20)	75.31 (4.22)	LAB603	53.00 (2.65)	65.79 (8.60)
LAB613	28.00 (5.69)	61.61 (7.65)	LAB613	2.50 (2.50)	72.00 ()
LAB623	25.33 (6.33)	64.73 (7.43)	LAB623	48.33 (4.98)	70.11 (7.81)
LAB633	58.00 (4.04)	61.31 (8.10)	LAB633	42.67 (4.67)	67.04 (15.49)
LAB65	72.00 (18.50)	59.65 (9.30)	LAB65	1.00 (0.58)	50.33 (31.75)
LAB85	13.33 (2.03)	76.80 (5.78)	LAB85	19.67 (5.78)	76.34 (10.00)

Table 38. Mean density (# 10m³) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in San Antonio Bay with the ichthyoplankton.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.65 (0.65)	11.00 ()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	46.32 (9.79)	12.43 (1.11)
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 39. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in San Antonio Bay with the benthic sled.

Station	Mean Density	Mean Length
11/19/86		
SABA	0.83 (0.83)	14.25 ()
SABB	0.00 (0.00)	()
SABC	0.41 (0.24)	67.50 (49.65)
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.21 (0.21)	38.00 ()
SABC	1.04 (0.63)	43.80 (3.30)
SABD	1.04 (0.40)	47.42 (7.04)
7/01/88		
SABA	0.41 (0.24)	23.00 (8.20)
SABB	6.04 (3.29)	22.75 (2.45)
SABC	0.00 (0.00)	()
SABD	1.25 (0.72)	42.67 (1.58)

Table 40. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in San Antonio Bay with the seine.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.05 (0.05)	69.00 ()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.05 (0.05)	44.00 ()
SABC	0.37 (0.22)	48.01 (2.99)
SABD	1.65 (0.79)	44.48 (0.97)
7/01/88		
SABA	0.00 (0.00)	()
SABB	14.84 (4.48)	26.91 (9.35)
SABC	0.05 (0.05)	30.00 ()
SABD	6.70 (3.15)	40.13 (2.50)

Table 41. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in San Antonio Bay with the trawl.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.50 (0.29)	79.00 (14.00)
SABB	1.00 (1.00)	72.50 ()
SABC	7.67 (1.86)	154.90 (*****)
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.50 (0.29)	91.00 (6.00)
SABD	0.25 (0.25)	50.00 ()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	1.00 (0.71)	62.75 (8.78)
SABB	22.50 (7.50)	61.49 (0.80)
SABC	17.25 (4.39)	63.77 (3.47)
SABD	45.75 (7.23)	45.19 (6.99)
7/01/88		
SABA	0.25 (0.25)	47.00 ()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 42. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Mesquite Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	10/01/87		
8/20/86			CBYA	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYY	0.00 (0.00)	()
8/28/86			10/16/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYE	0.00 (0.00)	()
10/28/86			CBYF	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	10/29/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
5/12/87			CBYD	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	11/12/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
6/17/87			CBYD	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	12/01/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYF	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
6/29/87			CBYE	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYF	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	4/26/88		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYE	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYF	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
7/29/87			CBYE	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYF	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()			
CBYD	0.00 (0.00)	()			
CBYE	0.00 (0.00)	()			
CBYF	0.00 (0.00)	()			

Table 43. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Mesquite Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			7/29/87		
C BYA	0.00 (0.00)	()	C BYA	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYB	0.00 (0.00)	()
C BYC	0.00 (0.00)	()	C BYC	0.00 (0.00)	()
C BYD	0.00 (0.00)	()	C BYD	0.00 (0.00)	()
8/20/86			9/21/87		
C BYA	4.16 (0.83)	37.10 (5.67)	C BYA	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYC	0.00 (0.00)	()
C BYC	0.00 (0.00)	()	C BYD	0.41 (0.41)	40.00 ()
C BYD	0.00 (0.00)	()			
8/28/86			10/01/87		
C BYA	0.83 (0.00)	44.00 (2.73)	C BYA	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYC	0.41 (0.41)	100.00 ()
C BYC	0.00 (0.00)	()	C BYD	0.00 (0.00)	()
C BYD	0.83 (0.83)	52.50 ()			
10/28/86			10/16/87		
C BYA	0.00 (0.00)	()	C BYA	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYC	2.08 (2.08)	12.00 ()
C BYC	0.00 (0.00)	()	C BYD	0.00 (0.00)	()
C BYD	0.00 (0.00)	()	C BYX	0.00 (0.00)	()
5/12/87			10/29/87		
C BYA	0.00 (0.00)	()	C BYA	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYC	1.25 (0.42)	73.62 (19.22)
C BYC	0.00 (0.00)	()	C BYD	0.00 (0.00)	()
C BYD	0.00 (0.00)	()			
6/17/87			11/12/87		
C BYA	0.00 (0.00)	()	C BYA	1.66 (1.66)	17.00 ()
C BYB	0.00 (0.00)	()	C BYC	0.00 (0.00)	()
C BYC	0.00 (0.00)	()	C BYD	0.41 (0.41)	36.00 ()
C BYD	0.00 (0.00)	()			
			12/01/87		
			C BYA	0.00 (0.00)	()
			C BYC	9.17 (5.00)	26.27 (15.32)
			C BYD	1.25 (1.25)	26.00 ()
6/29/87			4/26/88		
C BYA	0.00 (0.00)	()	C BYC	0.00 (0.00)	()
C BYB	0.00 (0.00)	()	C BYD	0.00 (0.00)	()
C BYC	0.00 (0.00)	()			
C BYD	0.00 (0.00)	()			

Table 44. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of white shrimp taken at each station in Mesquite Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			7/29/87		
CBYA	0.11 (0.11)	44.00 ()	CBYA	0.11 (0.11)	32.00 ()
CBYB	0.00 (0.00)	()	CBYB	0.00 (0.00)	()
CBYC	0.11 (0.11)	18.00 ()	CBYC	0.00 (0.00)	()
CBYD	0.21 (0.00)	45.00 (10.54)	CBYD	0.11 (0.11)	34.00 ()
8/20/86			9/21/87		
CBYA	1.28 (0.85)	41.57 (5.12)	CBYA	0.00 (0.00)	()
CBYB	0.32 (0.11)	31.71 (2.26)	CBYC	1.70 (1.06)	38.39 (40.97)
CBYC	0.11 (0.11)	19.00 ()	CBYD	0.54 (0.11)	59.05 (9.56)
CBYD	3.30 (1.81)	42.55 (2.41)	10/01/87		
8/28/86			CBYA	0.00 (0.00)	()
CBYA	0.21 (0.00)	49.00 (2.29)	CBYC	0.53 (0.32)	94.20 (0.65)
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/16/87		
CBYD	3.29 (0.10)	40.29 (8.47)	CBYA	0.00 (0.00)	()
10/28/86			CBYC	1.38 (0.10)	89.15 (2.01)
CBYA	0.00 (0.00)	()	CBYD	0.11 (0.11)	104.00 ()
CBYB	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/29/87		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
5/12/87			CBYC	0.42 (0.42)	74.25 ()
CBYA	0.00 (0.00)	()	CBYD	1.59 (0.74)	31.33 (1.27)
CBYB	0.00 (0.00)	()	11/12/87		
CBYC	0.00 (0.00)	()	CBYA	0.64 (0.00)	18.33 (1.33)
CBYD	0.00 (0.00)	()	CBYC	61.07 (1.91)	36.40 (15.31)
6/17/87			CBYD	0.42 (0.22)	25.74 (1.22)
CBYA	0.00 (0.00)	()	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.11 (0.11)	27.00 ()
CBYC	0.00 (0.00)	()	CBYC	14.47 (0.85)	34.78 (0.23)
CBYD	0.00 (0.00)	()	CBYD	0.22 (0.22)	23.50 ()
6/29/87			4/26/88		
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()			
CBYD	0.11 (0.11)	37.00 ()			

Table 45. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Lavaca Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB45	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB613	18.52 (11.40)	13.53 (18.82)	LAB623	0.00 (0.00)	()
LAB623	1.44 (1.44)	11.00 (0.00)	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
LAB85	0.00 (0.00)	()			
1/22/85			10/23/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	4.22 (4.22)	15.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	198.81 (8.01)	12.22 (9.09)	LAB623	0.00 (0.00)	()
LAB633			LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
3/06/85			12/03/85		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	1.85 (1.85)	12.00 (0.00)
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
4/03/85			2/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	7.93 (7.93)	32.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	6.37 (1.97)	6.33 (0.60)	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	3.20 (0.03)	6.50 (0.89)	LAB85	0.00 (0.00)	()
5/07/85			4/08/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
6/06/85			6/03/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()
7/16/85			8/05/86		
LAB45	0.00 (0.00)	()	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.00 (0.00)	()

Table 46. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Lavaca Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB45	25.83 (0.00)	13.42 (2.13)	LAB45	0.00 (0.00) ()	
LAB603	5.00 (5.00)	15.50 (0.00)	LAB603	0.00 (0.00) ()	
LAB613	38.33 (0.00)	12.38 (2.60)	LAB613	0.00 (0.00) ()	
LAB623	3.33 (3.33)	13.38 (0.00)	LAB623	0.00 (0.00) ()	
LAB633			LAB633	0.00 (0.00) ()	
LAB65	10.83 (10.00)	12.04 (0.03)	LAB65	0.00 (0.00) ()	
LAB85	6.66 (5.83)	13.94 (2.62)	LAB85	0.00 (0.00) ()	
1/23/85			10/23/85		
LAB45	10.41 (7.91)	21.72 (0.34)	LAB45	0.00 (0.00) ()	
LAB603	2.50 (0.83)	16.33 (0.19)	LAB603	0.00 (0.00) ()	
LAB613	0.41 (0.41)	24.00 (0.00)	LAB613	1.67 (0.00)	12.75 (0.32)
LAB623	2.08 (0.42)	11.40 (0.47)	LAB623	0.00 (0.00) ()	
LAB633			LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.41 (0.41)	11.00 (0.00)
3/06/85			12/04/85		
LAB45	1.66 (1.66)	27.25 (0.00)	LAB45	3.33 (1.66)	20.50 (1.05)
LAB603	5.00 (2.50)	27.83 (5.38)	LAB603	2.08 (0.42)	21.60 (1.89)
LAB613	18.33 (1.66)	18.16 (4.86)	LAB613	1.25 (0.42)	12.66 (2.63)
LAB623	3.33 (1.66)	14.37 (1.98)	LAB623	0.00 (0.00) ()	
LAB633	7.92 (1.25)	23.31 (0.44)	LAB633	0.41 (0.41)	14.00 (0.00)
LAB65	0.41 (0.41)	35.00 (0.00)	LAB65	0.41 (0.41)	14.00 (0.00)
LAB85	0.83 (0.83)	26.00 (0.00)	LAB85	2.92 (1.25)	12.43 (1.16)
4/03/85			2/05/86		
LAB45	1.25 (0.42)	25.02 (6.32)	LAB45	0.41 (0.41)	28.00 (0.00)
LAB603	1.66 (1.66)	21.50 (0.00)	LAB603	12.50 (5.83)	19.63 (1.59)
LAB613	2.08 (1.25)	33.80 (4.18)	LAB613	6.25 (1.25)	19.60 (0.82)
LAB623	0.83 (0.00)	19.50 (1.37)	LAB623	3.33 (2.50)	14.37 (1.12)
LAB633	1.66 (0.83)	26.26 (3.91)	LAB633	2.92 (1.25)	13.62 (0.05)
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	14.16 (13.34)	42.47 (6.19)	LAB85	1.25 (1.25)	24.33 (0.00)
5/07/85			4/08/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.83 (0.83)	42.50 (0.00)	LAB613	0.83 (0.83)	38.00 (0.00)
LAB623	0.00 (0.00) ()		LAB623	0.41 (0.41)	21.00 (0.00)
LAB633	1.66 (0.83)	33.75 (1.67)	LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	1.25 (0.42)	44.68 (3.69)
6/06/85			6/03/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.41 (0.41)	66.00 (0.00)	LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	
7/16/85			8/05/86		
LAB45	0.00 (0.00) ()		LAB45	0.00 (0.00) ()	
LAB603	0.00 (0.00) ()		LAB603	0.00 (0.00) ()	
LAB613	0.00 (0.00) ()		LAB613	0.00 (0.00) ()	
LAB623	0.41 (0.41)	80.00 (0.00)	LAB623	0.00 (0.00) ()	
LAB633	0.00 (0.00) ()		LAB633	0.00 (0.00) ()	
LAB65	0.00 (0.00) ()		LAB65	0.00 (0.00) ()	
LAB85	0.00 (0.00) ()		LAB85	0.00 (0.00) ()	

Table 47. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Lavaca Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB190	0.00 (0.00)	()	LAB45	0.11 (0.11)	102.00 (0.00)
LAB45	19.05 (19.05)	17.81 (0.00)	LAB603	0.00 (0.00)	()
LAB603	0.22 (0.22)	17.50 (0.00)	LAB613	0.11 (0.11)	80.00 (0.00)
LAB613	10.64 (10.64)	16.97 (0.00)	LAB623	0.00 (0.00)	()
LAB623	14.79 (14.79)	18.75 (0.00)	LAB633	0.00 (0.00)	()
LAB633			LAB65	0.00 (0.00)	()
LAB65	0.95 (0.95)	15.78 (0.00)	LAB85	0.11 (0.11)	99.00 (0.00)
LAB85	0.11 (0.11)	20.00 (0.00)			
1/23/85			10/23/85		
LAB45	0.21 (0.00)	25.00 (0.00)	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.00 (0.00)	()
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.11 (0.11)	9.00 (0.00)	LAB623	0.00 (0.00)	()
LAB633			LAB633	0.00 (0.00)	()
LAB65	0.11 (0.11)	12.00 (0.00)	LAB65	0.00 (0.00)	()
LAB85	0.00 (0.00)	()	LAB85	0.22 (0.22)	13.50 (0.00)
3/06/85			12/04/85		
LAB45	2.02 (1.38)	24.00 (0.82)	LAB45	3.61 (1.27)	23.07 (1.88)
LAB603	21.59 (11.59)	25.54 (1.18)	LAB603	1.49 (0.85)	25.00 (0.64)
LAB613	18.30 (3.62)	23.88 (4.36)	LAB613	11.59 (1.59)	19.37 (0.59)
LAB623	0.32 (0.11)	34.09 (4.38)	LAB623	0.00 (0.00)	()
LAB633	15.96 (4.90)	22.03 (5.08)	LAB633	0.00 (0.00)	()
LAB65	0.43 (0.00)	19.75 (4.10)	LAB65	0.85 (0.21)	26.00 (0.95)
LAB85	2.34 (1.70)	35.31 (2.83)	LAB85	0.32 (0.32)	13.67 (0.00)
4/03/85			2/05/86		
LAB45	5.42 (2.03)	38.39 (2.24)	LAB45	4.25 (0.21)	25.38 (2.29)
LAB603	5.11 (3.20)	41.99 (5.67)	LAB603	33.09 (3.30)	18.56 (2.17)
LAB613	2.98 (0.64)	36.93 (1.79)	LAB613	0.00 (0.00)	()
LAB623	97.66 (51.70)	34.04 (33.28)	LAB623	2.13 (1.49)	13.50 (0.31)
LAB633	12.77 (3.41)	22.86 (1.12)	LAB633	1.59 (0.53)	14.07 (0.12)
LAB65	0.32 (0.11)	44.71 (2.26)	LAB65	0.32 (0.11)	18.34 (0.13)
LAB85	2.77 (2.56)	46.32 (5.39)	LAB85	6.81 (2.13)	23.98 (0.82)
5/07/85			4/09/86		
LAB45	1.38 (0.53)	54.16 (2.42)	LAB45	0.42 (0.22)	55.26 (1.22)
LAB603	3.83 (1.28)	51.39 (2.23)	LAB603	0.85 (0.64)	26.06 (0.19)
LAB613	5.42 (4.15)	42.40 (2.79)	LAB613	19.78 (12.13)	47.76 (39.56)
LAB623	4.15 (4.15)	35.82 (0.00)	LAB623	0.00 (0.00)	()
LAB633	1.38 (0.10)	35.53 (5.67)	LAB633	0.54 (0.11)	27.40 (0.54)
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	4.04 (0.85)	46.53 (3.99)	LAB85	0.32 (0.11)	57.96 (1.99)
6/05/85			6/04/86		
LAB45	0.54 (0.11)	64.80 (0.48)	LAB45	0.11 (0.11)	95.00 (0.00)
LAB603	0.22 (0.22)	65.00 (0.00)	LAB603	0.00 (0.00)	()
LAB613	0.64 (0.43)	51.67 (0.59)	LAB613	0.00 (0.00)	()
LAB623	0.00 (0.00)	()	LAB623	0.00 (0.00)	()
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.32 (0.32)	75.33 (0.00)	LAB65	0.00 (0.00)	()
LAB85	0.96 (0.53)	64.66 (2.98)	LAB85	0.21 (0.00)	65.50 (6.19)
7/17/85			8/05/86		
LAB45	0.11 (0.11)	86.00 (0.00)	LAB45	0.00 (0.00)	()
LAB603	0.00 (0.00)	()	LAB603	0.11 (0.11)	100.00 (0.00)
LAB613	0.00 (0.00)	()	LAB613	0.00 (0.00)	()
LAB623	0.32 (0.11)	80.75 (4.25)	LAB623	0.11 (0.11)	100.00 (0.00)
LAB633	0.00 (0.00)	()	LAB633	0.00 (0.00)	()
LAB65	0.00 (0.00)	()	LAB65	0.00 (0.00)	()
LAB85	0.11 (0.11)	89.00 (0.00)	LAB85	0.00 (0.00)	()

Table 48. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Lavaca Bay with the trawl.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
11/27/84			8/14/85		
LAB45	13.67 (9.68)	29.05 (17.78)	LAB45	0.33 (0.33)	83.00 (0.00)
LAB603	5.33 (1.33)	23.50 (5.19)	LAB603	11.00 (3.06)	96.46 (3.35)
LAB613	19.67 (3.18)	26.42 (4.95)	LAB613	2.33 (0.67)	83.57 (4.38)
LAB623	10.67 (2.19)	27.06 (0.59)	LAB623	4.33 (0.33)	87.08 (8.95)
LAB633			LAB633	5.33 (2.85)	71.75 (4.72)
LAB65	54.67 (25.85)	30.45 (3.82)	LAB65	0.00 (0.00)	()
LAB85	6.33 (1.86)	24.84 (4.49)	LAB85	17.33 (5.21)	77.55 (3.72)
1/22/85			10/23/85		
LAB45	103.00 (29.02)	21.83 (2.35)	LAB45	0.00 (0.00)	()
LAB603	10.00 (4.58)	25.67 (1.47)	LAB603	0.33 (0.33)	(0.00)
LAB613	1.67 (1.20)	16.60 (0.47)	LAB613	1.00 (1.00)	28.00 (0.00)
LAB623	12.33 (3.28)	18.73 (2.83)	LAB623	0.33 (0.33)	80.00 (0.00)
LAB633			LAB633	0.00 (0.00)	()
LAB65	15.00 (2.00)	33.38 (12.53)	LAB65	0.33 (0.33)	30.00 (0.00)
LAB85	3.67 (1.45)	26.82 (4.30)	LAB85	0.00 (0.00)	()
3/05/85			12/03/85		
LAB45	8.67 (2.19)	28.00 (3.58)	LAB45	54.33 (16.70)	27.97 (5.75)
LAB603	110.67 (2.85)	26.49 (5.92)	LAB603	21.67 (4.63)	22.85 (1.28)
LAB613	123.67 (41.31)	28.84 (8.36)	LAB613	14.00 (6.66)	29.26 (5.18)
LAB623	97.00 (26.95)	33.65 (1.64)	LAB623	1.33 (0.88)	28.25 (9.19)
LAB633	206.00 (65.58)	33.60 (9.04)	LAB633	3.67 (0.67)	26.73 (1.47)
LAB65	145.67 (51.67)	30.40 (12.07)	LAB65	2.33 (0.33)	31.14 (0.44)
LAB85	68.67 (19.10)	38.70 (3.32)	LAB85	7.67 (0.67)	28.31 (6.87)
4/02/85			2/05/86		
LAB45	61.33 (7.06)	32.74 (5.31)	LAB45	0.67 (0.67)	26.00 (0.00)
LAB603	121.33 (9.40)	44.42 (1.26)	LAB603	37.67 (5.46)	30.06 (5.59)
LAB613	106.67 (17.57)	43.08 (10.12)	LAB613	13.50 (2.50)	34.63 (11.88)
LAB623	321.00 (125.17)	41.14 (5.36)	LAB623	27.33 (4.67)	34.55 (6.43)
LAB633	122.00 (17.79)	42.16 (3.65)	LAB633	44.33 (20.35)	29.79 (2.66)
LAB65	23.00 (3.21)	39.01 (2.63)	LAB65	1.33 (0.88)	33.75 (8.78)
LAB85	85.00 (9.50)	47.57 (12.87)	LAB85	25.33 (9.24)	38.13 (7.26)
5/07/85			4/08/86		
LAB45	5.67 (3.84)	44.94 (5.16)	LAB45	11.33 (1.86)	30.96 (8.75)
LAB603	190.00 (12.00)	50.12 (4.17)	LAB603	123.00 (26.63)	45.10 (7.75)
LAB613	105.67 (7.67)	46.10 (3.60)	LAB613	138.00 (42.71)	50.68 (66.47)
LAB623	72.33 (2.85)	54.33 (5.36)	LAB623	51.00 (18.77)	47.45 (1.72)
LAB633	91.67 (17.53)	42.12 (3.31)	LAB633	183.67 (77.14)	56.89 (9.69)
LAB65	16.33 (12.45)	51.87 (7.04)	LAB65	4.67 (1.45)	38.79 (11.02)
LAB85	26.00 (16.82)	54.77 (9.44)	LAB85	100.33 (34.79)	55.61 (12.39)
6/06/85			6/03/86		
LAB45	0.33 (0.33)	51.00 (0.00)	LAB45	0.33 (0.33)	48.00 (0.00)
LAB603	48.33 (7.36)	62.38 (1.73)	LAB603	19.33 (7.88)	60.24 (3.06)
LAB613	43.33 (6.74)	55.11 (4.92)	LAB613	38.00 (4.36)	75.88 (2.22)
LAB623	54.67 (4.81)	60.17 (5.90)	LAB623	12.67 (3.67)	71.03 (5.65)
LAB633	39.00 (7.00)	56.31 (7.37)	LAB633	17.33 (6.67)	66.20 (5.01)
LAB65	1.33 (0.33)	62.00 (2.71)	LAB65	3.33 (1.67)	63.60 (4.47)
LAB85	71.00 (8.14)	62.76 (13.08)	LAB85	34.67 (11.67)	72.53 (2.89)
7/16/85			8/05/86		
LAB45	2.67 (1.67)	74.75 (6.94)	LAB45	0.00 (0.00)	()
LAB603	21.67 (1.33)	83.22 (2.71)	LAB603	6.33 (1.76)	84.21 (2.47)
LAB613	13.67 (1.45)	74.66 (2.61)	LAB613	3.00 (2.00)	101.33 (6.45)
LAB623	6.67 (1.45)	72.45 (2.30)	LAB623	2.00 (0.58)	91.17 (1.86)
LAB633	27.67 (1.45)	67.69 (6.39)	LAB633	9.33 (1.20)	80.25 (4.65)
LAB65	3.33 (0.88)	78.10 (4.37)	LAB65	0.00 (0.00)	()
LAB85	17.33 (4.10)	77.27 (8.33)	LAB85	1.00 (0.58)	79.67 (2.31)

Table 49. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in San Antonio Bay with the ichthyoplankton.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/03/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 50. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in San Antonio Bay with the benthic sled.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	9.79 (4.29)	13.98 (0.97)
SABD	0.21 (0.21)	15.00 (0.00)
1/27/87		
SABA	3.54 (1.54)	15.86 (1.40)
SABB	0.21 (0.21)	22.00 (0.00)
SABC	1.04 (0.40)	21.80 (0.33)
SABD	0.21 (0.21)	13.00 (0.00)
3/04/87		
SABA	0.41 (0.24)	17.50 (4.10)
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	1.46 (0.40)	17.86 (2.17)
4/06/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 51. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in San Antonio Bay with the seine.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	6.97 (2.40)	15.13 (0.89)
SABD	0.05 (0.05)	13.00 (0.00)
1/27/87		
SABA	0.05 (0.05)	18.00 (0.00)
SABB	0.05 (0.05)	21.00 (0.00)
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
3/04/87		
SABA	0.37 (0.37)	32.71 (0.00)
SABB	0.00 (0.00)	()
SABC	0.05 (0.05)	13.00 (0.00)
SABD	1.44 (0.60)	19.15 (2.27)
4/07/87		
SABA	0.16 (0.10)	50.94 (3.19)
SABB	0.05 (0.05)	15.00 (0.00)
SABC	0.05 (0.05)	16.00 (0.00)
SABD	0.00 (0.00)	()
6/02/87		
SABA	0.00 (0.00)	()
SABB	0.27 (0.10)	64.00 (0.38)
SABC	0.00 (0.00)	()
SABD	0.05 (0.05)	45.00 (0.00)
7/14/87		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
7/01/88		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()

Table 52. Mean density (# / tow) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in San Antonio Bay with the trawl.

Station	Mean Density	Mean Length
11/18/86		
SABA	0.00 (0.00)	()
SABB	0.00 (0.00)	()
SABC	0.00 (0.00)	()
SABD	0.00 (0.00)	()
1/26/87		
SABA	15.00 (1.73)	28.33 (5.95)
SABB	36.25 (7.42)	24.13 (3.59)
SABC	14.00 (5.40)	31.36 (2.83)
SABD	26.25 (6.02)	27.29 (5.14)
3/03/87		
SABA	84.00 (14.21)	37.24 (6.05)
SABB	116.25 (22.20)	39.09 (6.63)
SABC	247.00 (37.41)	40.64 (1.55)
SABD	89.75 (8.52)	44.15 (9.25)
4/06/87		
SABA	71.50 (12.95)	44.30 (10.06)
SABB	195.00 (29.42)	43.90 (10.50)
SABC	85.00 (10.96)	61.17 (11.74)
SABD	214.00 (19.53)	52.16 (26.29)
6/02/87		
SABA	15.75 (4.99)	54.51 (3.76)
SABB	4.75 (1.75)	68.89 (6.29)
SABC	6.50 (3.28)	63.59 (1.89)
SABD	6.50 (0.87)	66.85 (2.53)
7/13/87		
SABA	4.00 (1.22)	83.31 (4.78)
SABB	3.50 (0.50)	70.86 (23.45)
SABC	17.25 (0.85)	78.77 (4.87)
SABD	5.75 (2.21)	69.00 (13.05)
7/01/88		
SABA	0.25 (0.25)	88.00 (0.00)
SABB	0.75 (0.48)	95.33 (5.77)
SABC	0.25 (0.25)	92.00 (0.00)
SABD	0.00 (0.00)	()

Table 53. Mean density (# 10m⁻³) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Mesquite Bay with the ichthyoplankton.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()			
8/20/86			10/01/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
			CBYY	0.00 (0.00)	()
8/28/86			10/16/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYE	0.00 (0.00)	()
			CBYF	0.00 (0.00)	()
10/28/86			CBYX	0.00 (0.00)	()
CBYA	0.00 (0.00)	()			
CBYB	0.00 (0.00)	()	10/29/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
			CBYD	0.00 (0.00)	()
5/12/87			CBYX	0.00 (0.00)	()
CBYA	0.00 (0.00)	()			
CBYB	0.00 (0.00)	()	11/12/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
			CBYD	0.00 (0.00)	()
6/17/87			CBYX	0.00 (0.00)	()
CBYA	0.00 (0.00)	()			
CBYB	0.00 (0.00)	()	12/01/87		
CBYC	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYF	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
			CBYE	0.00 (0.00)	()
6/29/87			CBYF	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYB	0.00 (0.00)	()			
CBYC	0.00 (0.00)	()	4/26/88		
CBYD	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYE	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYF	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
			CBYE	0.00 (0.00)	()
7/29/87			CBYF	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYB	0.00 (0.00)	()			
CBYC	0.00 (0.00)	()			
CBYD	0.00 (0.00)	()			
CBYE	0.00 (0.00)	()			
CBYF	0.00 (0.00)	()			

Table 54. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Mesquite Bay with the benthic sled.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			7/29/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYB	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
8/20/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	10/01/87		
8/28/86			CBYA	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/16/87		
CBYD	0.00 (0.00)	()	CBYA	2.08 (1.25)	11.40 (0.29)
10/28/86			CBYC	40.42 (31.25)	10.18 (0.85)
CBYA	0.00 (0.00)	()	CBYD	2.08 (0.42)	10.00 (1.18)
CBYB	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/29/87		
CBYD	0.00 (0.00)	()	CBYA	6.66 (5.83)	10.53 (0.31)
5/12/87			CBYC	8.75 (2.08)	10.57 (0.99)
CBYA	0.00 (0.00)	()	CBYD	38.75 (11.25)	10.46 (1.01)
CBYB	0.00 (0.00)	()	11/12/87		
CBYC	0.00 (0.00)	()	CBYA	0.83 (0.83)	11.00 (0.00)
CBYD	0.00 (0.00)	()	CBYC	2.08 (1.25)	11.60 (0.43)
6/17/87			CBYD	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	16.25 (7.08)	12.31 (1.74)
CBYD	0.00 (0.00)	()	CBYD	0.83 (0.83)	13.50 (0.00)
6/29/87			4/26/88		
CBYA	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYD	0.83 (0.00)	26.00 (1.82)
CBYC	0.00 (0.00)	()			
CBYD	0.00 (0.00)	()			

Table 55. Mean density (# 10m⁻²) and mean length (mm) (\pm 1 SE) of Atlantic croaker taken at each station in Mesquite Bay with the seine.

Station	Mean Density	Mean Length	Station	Mean Density	Mean Length
7/24/86			7/29/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYB	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
8/20/86			9/21/87		
CBYA	0.00 (0.00)	()	CBYA	0.00 (0.00)	()
CBYB	0.00 (0.00)	()	CBYC	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYD	0.00 (0.00)	()	10/01/87		
8/28/86			CBYA	0.00 (0.00)	()
CBYA	0.00 (0.00)	()	CBYC	0.32 (0.32)	10.67 (0.00)
CBYB	0.00 (0.00)	()	CBYD	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/16/87		
CBYD	0.00 (0.00)	()	CBYA	1.70 (0.43)	11.06 (0.74)
10/28/86			CBYC	419.68 (11.81)	11.39 (3.48)
CBYA	0.00 (0.00)	()	CBYD	0.53 (0.53)	11.20 (0.00)
CBYB	0.00 (0.00)	()	CBYX	0.00 (0.00)	()
CBYC	0.00 (0.00)	()	10/29/87		
CBYD	0.00 (0.00)	()	CBYA	4.15 (4.15)	12.56 (0.00)
5/12/87			CBYC	14.58 (1.39)	11.48 (0.84)
CBYA	0.00 (0.00)	()	CBYD	14.68 (7.02)	11.57 (0.08)
CBYB	0.00 (0.00)	()	11/12/87		
CBYC	0.00 (0.00)	()	CBYA	0.32 (0.11)	11.99 (0.40)
CBYD	0.14 (0.07)	55.00 (4.58)	CBYC	35.85 (21.38)	12.18 (0.19)
6/17/87			CBYD	0.64 (0.21)	12.83 (0.47)
CBYA	0.00 (0.00)	()	12/01/87		
CBYB	0.00 (0.00)	()	CBYA	0.11 (0.11)	17.00 (0.00)
CBYC	0.00 (0.00)	()	CBYC	24.26 (3.41)	15.96 (5.46)
CBYD	0.64 (0.37)	75.00 (6.47)	CBYD	0.00 (0.00)	()
6/29/87			4/26/88		
CBYA	0.00 (0.00)	()	CBYC	3.30 (0.32)	47.03 (7.12)
CBYB	0.00 (0.00)	()	CBYD	0.11 (0.11)	18.00 (0.00)
CBYC	0.00 (0.00)	()			
CBYD	0.11 (0.11)	91.00 (0.00)			

APPENDIX II.

In the following tables: MEAN DENSITY for trawl data is mean number of individuals per 3 min. trawl tow; MEAN DENSITY for seine and sled data is mean number per 10 m²; MEAN DENSITY for ichthyoplankton data is mean number of individuals per 100 m³; MEAN LENGTH is in millimeters; MEAN and TOTAL WEIGHT is in grams.

SAN ANTONIO BAY

SAN ANTONIO BAY

Trawl

DATA

DATE - 17 Nov 1986 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 30.50 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	65.0	13.69	13.89
SHEEPSHEAD MINNOW	0.33	22.0	0.55	0.55
BAY ANCHOVY	0.67	39.5	0.68	1.36
GULF MENHADEN	0.67	56.5	3.34	6.68
WHITE SHRIMP	0.67	79.0	3.58	7.15
HARRIS' MUD CRAB	1.00	9.0	0.29	0.87

DENSITY OF ALL INDIVIDUALS 3.67

MEAN LENGTH OF ALL INDIVIDUALS 45.2

MEAN WEIGHT OF ALL INDIVIDUALS 3.69

SAN ANTONIO BAY

Trawl

DATA

DATE - 17 Nov 1986 STATION - SABB

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 21

TOTAL WEIGHT OF ALL INDIVIDUALS 236.73 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.00	83.0	43.29	129.87
BAY ANCHOVY	1.33	40.8	0.83	4.34
SPOT	1.33	71.5	14.67	58.75
WHITE SHRIMP	1.33	72.5	4.71	18.64
GULF MENHADEN	2.00	60.5	4.19	25.13

DENSITY OF ALL INDIVIDUALS 7.00

MEAN LENGTH OF ALL INDIVIDUALS 65.7

MEAN WEIGHT OF ALL INDIVIDUALS 13.54

SAN ANTONIO BAY

Trawl

DATA

DATE - 17 Nov 1986 STATION - SABC

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 70

TOTAL WEIGHT OF ALL INDIVIDUALS 826.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC STINGRAY	0.33	999.0	200.00	200.00
BROWN SHRIMP	0.33	103.0	8.04	8.04
LEAST PUFFER	0.33	62.0	13.68	13.68
LINED SOLE	0.33	34.0	1.30	1.30
STRIPED ANCHOVY	0.33	25.0	0.09	0.09
ATLANTIC CROAKER	0.67	15.0	0.08	0.16
BLUE CRAB	0.67	35.0	4.69	9.38
PINFISH	0.67	83.0	14.64	29.27
SPOT	3.33	114.4	29.52	301.67
BAY ANCHOVY	5.00	37.0	0.62	11.16
WHITE SHRIMP	11.33	159.7	7.13	251.53

DENSITY OF ALL INDIVIDUALS 23.33

MEAN LENGTH OF ALL INDIVIDUALS 151.6

MEAN WEIGHT OF ALL INDIVIDUALS 25.44

SAN ANTONIO BAY

Trawl

DATA

DATE - 19 Nov 1986 STATION - SABD

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 7

TOTAL WEIGHT OF ALL INDIVIDUALS 83.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SAND SEATROUT	0.33	44.0	1.57	1.57
HARRIS' MUD CRAB	0.67	10.0	0.35	0.71
PINFISH	0.67	89.0	20.39	40.78
SPOT	0.67	91.5	20.10	40.21

DENSITY OF ALL INDIVIDUALS 2.33

MEAN LENGTH OF ALL INDIVIDUALS 58.6

MEAN WEIGHT OF ALL INDIVIDUALS 10.61

SAN ANTONIO BAY

Seine

DATA

DATE - 19 Nov 1986 STATION - SABA

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1212

TOTAL WEIGHT OF ALL INDIVIDUALS 104.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.11	17.0	0.01	0.01
PINFISH	0.11	86.0	20.33	20.33
BLUE CRAB	0.21	6.5	0.03	0.05
NAKED GOBY	0.22	32.0	0.40	0.80
TIDEWATER SILVERSIDE	0.22	30.5	0.54	1.08
BAY ANCHOVY	0.32	39.0	0.63	1.90
SHEEPSHEAD MINNOW	0.42	21.8	0.35	1.46
HARRIS' MUD CRAB	0.64	8.3	0.24	0.95
RAINWATER KILLIFISH	1.17	17.0	0.10	1.12
GULF PIPEFISH	1.49	61.3	0.13	1.72
GRASS SHRIMP	124.04	0.0	0.00	74.89

DENSITY OF ALL INDIVIDUALS 128.93

MEAN LENGTH OF ALL INDIVIDUALS 29.0

MEAN WEIGHT OF ALL INDIVIDUALS 2.07

SAN ANTONIO BAY

Seine

DATA

DATE - 18 Nov 1986 STATION - SABB

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 777

TOTAL WEIGHT OF ALL INDIVIDUALS 140.86 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ARROW SHRIMP	0.11	30.0	0.04	0.04
BAY ANCHOVY	0.11	20.0	0.05	0.05
RAINWATER KILLIFISH	0.11	13.0	0.04	0.04
WHITE SHRIMP	0.11	69.0	1.99	1.99
GULF PIPEFISH	1.38	47.4	0.10	2.49
GRASS SHRIMP	26.38	0.0	0.00	17.02
TIDEWATER SILVERSIDE	54.47	29.3	0.29	119.23

DENSITY OF ALL INDIVIDUALS 82.65

MEAN LENGTH OF ALL INDIVIDUALS 29.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.36

SAN ANTONIO BAY

Seine

DATA

DATE - 18 Nov 1986 STATION - SABC

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 261

TOTAL WEIGHT OF ALL INDIVIDUALS 20.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PETROLISTHES SP.	0.11	0.0	0.00	0.02
BAY ANCHOVY	0.22	21.0	0.07	0.15
RED DRUM	0.32	15.0	0.06	0.19
BAYOU KILLIFISH	0.42	15.3	0.16	0.93
GULF PIPEFISH	0.42	76.3	0.26	0.91
NAKED GOBY	0.53	10.5	0.09	0.81
RAINWATER KILLIFISH	0.64	21.5	0.17	1.09
GRASS SHRIMP	11.18	0.0	0.00	10.28
ATLANTIC CROAKER	13.94	14.6	0.04	6.36

DENSITY OF ALL INDIVIDUALS 27.77

MEAN LENGTH OF ALL INDIVIDUALS 19.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.09

SAN ANTONIO BAY

Seine

DATA

DATE - 19 Nov 1986 STATION - SABD

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 353

TOTAL WEIGHT OF ALL INDIVIDUALS 26.90 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	13.0	0.04	0.04
BLUE CRAB	0.11	42.0	7.19	7.19
TIDEWATER SILVERSIDE	0.11	22.0	0.10	0.10
RAINWATER KILLIFISH	0.22	21.0	0.20	0.40
NAKED GOBY	0.75	14.6	0.06	0.42
BROWN SHRIMP	2.02	15.8	0.03	0.50
GULF PIPEFISH	2.23	64.7	0.15	3.03
ARROW SHRIMP	2.66	30.3	0.04	0.89
HIPPOLYTE ZOSTERICOL	3.51	0.0	0.00	0.51
GRASS SHRIMP	25.85	0.0	0.00	13.82

DENSITY OF ALL INDIVIDUALS 37.56

MEAN LENGTH OF ALL INDIVIDUALS 22.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.78

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 19 Nov 1986 STATION - SABA

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 810

TOTAL WEIGHT OF ALL INDIVIDUALS 35.12 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	10.0	0.26	0.26
RAINWATER KILLIFISH	0.41	16.0	0.08	0.08
HIPPOLYTE ZOSTERICOL	0.83	0.0	0.00	0.02
BROWN SHRIMP	1.66	17.7	0.05	0.13
WHITE SHRIMP	1.66	14.3	0.01	0.03
BLUE CRAB	2.08	6.9	0.03	0.12
GULF PIPEFISH	3.75	49.6	0.07	0.62
NAKED GOBY	7.50	13.2	0.05	0.96
GRASS SHRIMP	319.16	0.0	0.00	32.90

DENSITY OF ALL INDIVIDUALS 337.49

MEAN LENGTH OF ALL INDIVIDUALS 14.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.06

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 18 Nov 1986 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 357

TOTAL WEIGHT OF ALL INDIVIDUALS 23.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	11.0	0.57	0.57
PETROLISTHES SP.	0.41	6.0	0.02	0.02
RAINWATER KILLIFISH	0.41	10.0	0.02	0.02
BLUE CRAB	1.25	13.8	0.34	1.10
GULF PIPEFISH	2.50	64.0	0.15	0.86
TIDEWATER SILVERSIDE	2.91	31.2	0.33	2.17
NAKED GOBY	3.75	16.7	0.11	0.79
GRASS SHRIMP	137.08	0.0	0.00	18.42

DENSITY OF ALL INDIVIDUALS 148.74

MEAN LENGTH OF ALL INDIVIDUALS 19.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.19

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 18 Nov 1986 STATION - SABC

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 196

TOTAL WEIGHT OF ALL INDIVIDUALS 30.60 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
RAINWATER KILLIFISH	0.41	22.0	0.21	0.21
RED DRUM	0.41	18.0	0.10	0.10
WHITE SHRIMP	0.83	67.5	7.55	15.10
BAY ANCHOVY	1.25	20.0	0.07	0.21
PETROLISTHES SP.	2.08	3.0	0.01	0.03
NAKED GOBY	2.92	19.1	0.21	1.42
GULF PIPEFISH	13.33	54.6	0.11	3.60
ATLANTIC CROAKER	19.58	13.3	0.04	2.29
GRASS SHRIMP	40.83	0.0	0.00	7.64

DENSITY OF ALL INDIVIDUALS 81.65

MEAN LENGTH OF ALL INDIVIDUALS 24.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.92

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 17 Nov 1986 STATION - SABD

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 231

TOTAL WEIGHT OF ALL INDIVIDUALS 12.75 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	15.0	0.05	0.05
HARRIS' MUD CRAB	0.83	4.5	0.02	0.03
HIPPOLYTE ZOSTERICOL	3.33	0.0	0.00	0.11
ARROW SHRIMP	3.75	28.2	0.03	0.32
BLUE CRAB	5.00	10.1	0.08	0.83
GULF PIPEFISH	7.08	58.9	0.11	2.12
NAKED GOBY	12.09	16.4	0.10	2.70
BROWN SHRIMP	13.33	16.1	0.03	1.39
GRASS SHRIMP	50.41	0.0	0.00	5.20

DENSITY OF ALL INDIVIDUALS 96.23

MEAN LENGTH OF ALL INDIVIDUALS 16.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.05

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 17 Nov 1986 STATION - SABC

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	14.87	22.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 14.87

MEAN LENGTH OF ALL INDIVIDUALS 22.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

SAN ANTONIO BAY

Trawl

DATA

DATE - 26 Jan 1987 STATION - SABA

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 92

TOTAL WEIGHT OF ALL INDIVIDUALS 247.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.67	42.0	1.22	2.44
SHEEPSHEAD MINNOW	0.67	36.5	1.91	3.82
TIDEWATER SILVERSIDE	0.67	26.5	0.27	0.54
GRASS SHRIMP	1.33	0.0	0.00	1.21
HARRIS' MUD CRAB	1.33	11.5	0.56	2.25
NAKED GOBY	1.33	18.5	0.14	0.54
BLUE CRAB	2.33	36.6	6.88	46.05
STRIPED MULLET	2.33	98.4	21.94	156.76
ATLANTIC CROAKER	20.00	28.9	0.58	33.43

DENSITY OF ALL INDIVIDUALS 30.67

MEAN LENGTH OF ALL INDIVIDUALS 33.2

MEAN WEIGHT OF ALL INDIVIDUALS 3.72

SAN ANTONIO BAY

Trawl

DATA

DATE - 26 Jan 1987 STATION - SABB

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 421

TOTAL WEIGHT OF ALL INDIVIDUALS 394.41 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	31.0	1.16	1.16
CRAWFISH	0.33	51.0	2.63	2.63
GULF PIPEFISH	0.33	99.0	0.65	0.65
GRASS SHRIMP	1.00	0.0	0.00	0.83
STRIPED ANCHOVY	1.00	50.0	1.53	4.58
BLUE CRAB	3.00	36.5	4.63	62.02
GULF MENHADEN	12.00	63.3	5.23	187.38
BAY ANCHOVY	18.00	35.5	0.64	30.17
ATLANTIC CROAKER	48.33	24.1	0.37	55.32
HARRIS' MUD CRAB	56.00	9.1	0.33	49.67

DENSITY OF ALL INDIVIDUALS 140.33

MEAN LENGTH OF ALL INDIVIDUALS 39.9

MEAN WEIGHT OF ALL INDIVIDUALS 1.72

SAN ANTONIO BAY

Trawl

DATA

DATE - 26 Jan 1987 STATION - SABC

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 146

TOTAL WEIGHT OF ALL INDIVIDUALS 132.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	66.0	20.15	20.15
BROWN SHRIMP	0.33	80.0	4.02	4.02
PINFISH	0.33	75.0	11.17	11.17
SILVER PERCH	0.67	81.0	6.56	13.12
GRASS SHRIMP	1.00	0.0	0.00	0.89
BAY ANCHOVY	12.33	35.9	0.58	22.65
GULF MENHADEN	15.00	28.0	0.30	12.93
ATLANTIC CROAKER	18.67	30.7	0.76	47.32

DENSITY OF ALL INDIVIDUALS 48.67

MEAN LENGTH OF ALL INDIVIDUALS 49.6

MEAN WEIGHT OF ALL INDIVIDUALS 5.44

SAN ANTONIO BAY

Trawl

DATA

DATE - 27 Jan 1987 STATION - SABD

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 154

TOTAL WEIGHT OF ALL INDIVIDUALS 108.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	23.0	0.47	0.47
SPOTTED SEATROUT	0.33	79.0	7.88	7.88
GRASS SHRIMP	0.67	0.0	0.00	0.56
GULF MENHADEN	0.67	46.5	2.90	5.79
HARRIS' MUD CRAB	1.00	8.7	0.30	0.91
GULF PIPEFISH	1.33	81.2	0.49	1.65
XANTHID SP.	1.67	10.1	0.33	1.73
BAY ANCHOVY	10.33	43.6	1.09	31.08
ATLANTIC CROAKER	35.00	27.3	0.52	58.64

DENSITY OF ALL INDIVIDUALS 51.33

MEAN LENGTH OF ALL INDIVIDUALS 35.5

MEAN WEIGHT OF ALL INDIVIDUALS 1.55

SAN ANTONIO BAY

Seine

DATA

DATE - 27 Jan 1987 STATION - SABA

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 765

TOTAL WEIGHT OF ALL INDIVIDUALS 170.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	18.0	0.10	0.10
NAKED GOBY	0.11	11.0	0.03	0.03
RAINWATER KILLIFISH	0.21	23.5	0.25	0.50
HARRIS' MUD CRAB	0.22	17.5	0.20	0.39
BLUE CRAB	0.53	47.3	12.83	73.02
SHEEPSHEAD MINNOW	0.75	26.7	0.71	5.97
GULF KILLIFISH	0.85	38.2	1.33	13.19
SPOT	2.76	19.0	0.13	3.30
TIDEWATER SILVERSIDE	3.51	23.5	0.15	5.59
GULF MENHADEN	4.58	23.6	0.09	3.93
STRIPED MULLET	9.05	23.4	0.24	21.74
GRASS SHRIMP	58.73	0.0	0.00	42.86

DENSITY OF ALL INDIVIDUALS 81.38

MEAN LENGTH OF ALL INDIVIDUALS 22.6

MEAN WEIGHT OF ALL INDIVIDUALS 1.34

SAN ANTONIO BAY

Seine

DATA

DATE - 27 Jan 1987 STATION - SABB

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 1426

TOTAL WEIGHT OF ALL INDIVIDUALS 222.52 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	21.0	0.17	0.17
SHEEPSHEAD MINNOW	0.11	27.0	0.73	0.73
RAINWATER KILLIFISH	0.22	20.5	0.17	0.34
HARRIS' MUD CRAB	0.42	8.2	0.22	0.82
GULF MENHADEN	1.06	23.6	0.09	0.86
NAKED GOBY	1.70	19.0	0.20	3.27
SPOT	1.70	20.5	0.16	2.41
STRIPED MULLET	24.15	24.8	0.29	65.51
TIDEWATER SILVERSIDE	25.00	28.2	0.31	73.29
GRASS SHRIMP	97.23	0.0	0.00	75.12

DENSITY OF ALL INDIVIDUALS 151.70

MEAN LENGTH OF ALL INDIVIDUALS

19.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.23

SAN ANTONIO BAY

Seine

DATA

DATE - 27 Jan 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 634

TOTAL WEIGHT OF ALL INDIVIDUALS 168.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	18.0	0.34	0.34
GULF PIPEFISH	0.11	66.0	0.12	0.12
CODE GOBY	0.22	18.5	0.14	0.27
SPOT	0.32	17.0	0.10	0.30
GULF KILLIFISH	0.54	43.7	2.00	10.70
TIDEWATER SILVERSIDE	0.85	29.3	0.28	2.36
SHEEPSHEAD MINNOW	2.02	28.5	0.89	17.92
NAKED GOBY	6.81	23.9	0.32	20.53
GRASS SHRIMP	23.72	0.0	0.00	45.05
STRIPED MULLET	32.76	24.6	0.28	70.94

DENSITY OF ALL INDIVIDUALS 67.45

MEAN LENGTH OF ALL INDIVIDUALS

26.9

MEAN WEIGHT OF ALL INDIVIDUALS

0.45

SAN ANTONIO BAY

Seine

DATA

DATE - 27 Jan 1987 STATION - SABD

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 1344

TOTAL WEIGHT OF ALL INDIVIDUALS 194.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAYOU KILLIFISH	0.11	19.0	0.17	0.17
BROWN SHRIMP	0.11	34.0	0.27	0.27
GULF KILLIFISH	0.11	28.0	0.49	0.49
GULF PIPEFISH	0.11	63.0	0.12	0.12
SOUTHERN FLOUNDER	0.11	14.0	0.07	0.07
STRIPED MULLET	0.11	25.0	0.31	0.31
TIDEWATER SILVERSIDE	0.11	27.0	0.20	0.20
HARRIS' MUD CRAB	0.21	7.5	0.22	0.44
BLUE CRAB	1.28	14.5	0.80	8.81
NAKED GOBY	4.04	17.7	0.16	5.54
DIAMOND KILLIFISH	5.21	20.2	0.25	12.04
SHEEPSHEAD MINNOW	6.38	23.9	0.51	31.24
GULF MENHADEN	31.06	23.1	0.09	32.33
SPOT	41.39	19.2	0.13	53.20
GRASS SHRIMP	52.66	0.0	0.00	48.98

DENSITY OF ALL INDIVIDUALS 142.96

MEAN LENGTH OF ALL INDIVIDUALS 22.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.25

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 27 Jan 1987 STATION - SABA

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 169

TOTAL WEIGHT OF ALL INDIVIDUALS 17.58 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	14.0	0.07	0.07
HIPPOLYTE ZOSTERICOL	0.41	0.0	0.00	0.02
SHEEPSHEAD MINNOW	0.83	27.0	0.66	1.32
SPOT	2.50	19.1	0.15	0.99
NAKED GOBY	2.91	15.8	0.11	0.80
ATLANTIC CROAKER	7.08	16.1	0.14	2.37
GULF MENHADEN	12.09	23.0	0.08	2.60
GRASS SHRIMP	44.17	0.0	0.00	9.41

DENSITY OF ALL INDIVIDUALS 70.41

MEAN LENGTH OF ALL INDIVIDUALS 14.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 27 Jan 1987 STATION - SABB

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 656

TOTAL WEIGHT OF ALL INDIVIDUALS 47.87 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	22.0	0.21	0.21
BLUE CRAB	0.41	9.0	0.05	0.05
HARRIS' MUD CRAB	0.41	7.0	0.13	0.13
RAINWATER KILLIFISH	0.41	12.0	0.04	0.04
STRIPED MULLET	0.41	25.0	0.31	0.31
SHEEPSHEAD MINNOW	0.83	24.5	0.64	1.28
GULF MENHADEN	3.33	23.5	0.11	0.89
NAKED GOBY	4.16	21.0	0.25	2.51
TIDEWATER SILVERSIDE	11.67	24.4	0.19	5.32
GRASS SHRIMP	251.24	0.0	0.00	37.13

DENSITY OF ALL INDIVIDUALS 273.32

MEAN LENGTH OF ALL INDIVIDUALS 16.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.19

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 27 Jan 1987 STATION - SABC

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 734

TOTAL WEIGHT OF ALL INDIVIDUALS 89.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CODE GOBY	0.41	18.0	0.13	0.13
DIAMOND KILLIFISH	0.41	29.0	0.84	0.84
GREEN GOBY	0.41	27.0	0.24	0.24
GULF KILLIFISH	0.41	49.0	2.47	2.47
GULF TOADFISH	0.41	27.0	0.51	0.51
STRIPED MULLET	0.41	26.0	0.33	0.33
TIDEWATER SILVERSIDE	0.41	51.0	1.37	1.37
HARRIS' MUD CRAB	1.25	10.0	0.40	1.17
BLUE CRAB	2.08	15.4	0.48	2.51
ATLANTIC CROAKER	2.08	21.7	0.19	0.98
GULF MENHADEN	2.50	25.9	0.19	1.01
NAKED GOBY	2.50	20.7	0.21	1.24
GULF PIPEFISH	6.67	51.6	0.09	1.57
SPOT	8.75	16.7	0.10	1.98
GRASS SHRIMP	277.08	0.0	0.00	73.13

DENSITY OF ALL INDIVIDUALS 305.82

MEAN LENGTH OF ALL INDIVIDUALS 25.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.50

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 26 Jan 1987 STATION - SABD

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 161

TOTAL WEIGHT OF ALL INDIVIDUALS 33.70 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	13.0	0.04	0.04
BAY ANCHOVY	0.41	18.0	0.04	0.04
GOBY SP.	0.41	10.0	0.01	0.01
BLUE CRAB	1.24	18.3	1.57	4.70
HARRIS' MUD CRAB	1.25	6.0	0.09	0.28
SOUTHERN FLOUNDER	1.25	14.8	0.09	0.20
TIDEWATER SILVERSIDE	1.66	59.2	2.48	9.94
NAKED GOBY	2.08	16.4	0.11	0.55
GULF MENHADEN	10.41	23.2	0.10	2.56
SPOT	20.00	19.6	0.16	7.46
GRASS SHRIMP	27.91	0.0	0.00	7.92

DENSITY OF ALL INDIVIDUALS 67.07

MEAN LENGTH OF ALL INDIVIDUALS 18.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.42

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 26 Jan 1987 STATION - SABA

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 9

TOTAL WEIGHT OF ALL INDIVIDUALS 5.11 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.26	30.0	0.31	0.31
GULF MENHADEN	5.03	26.5	0.20	1.05
TIDEWATER SILVERSIDE	5.03	35.5	0.69	3.75

DENSITY OF ALL INDIVIDUALS 11.33

MEAN LENGTH OF ALL INDIVIDUALS 30.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.40

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 26 Jan 1987 STATION - SABB

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.75 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
MOSQUITOFISH	1.31	19.0	0.10	0.10
BAY ANCHOVY	4.00	28.8	0.24	0.65

DENSITY OF ALL INDIVIDUALS 5.31

MEAN LENGTH OF ALL INDIVIDUALS 23.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 26 Jan 1987 STATION - SABC

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.30 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED MULLET	1.24	26.0	0.30	0.30

DENSITY OF ALL INDIVIDUALS 1.24

MEAN LENGTH OF ALL INDIVIDUALS 26.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.30

SAN ANTONIO BAY

Trawl

DATA

DATE - 3 Mar 1987 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 386

TOTAL WEIGHT OF ALL INDIVIDUALS 581.96 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUEGILL	0.33	23.0	0.45	0.45
NAKED GOBY	0.33	34.0	0.87	0.87
HOGCHOKER	1.00	64.3	12.15	36.46
HARRIS' MUD CRAB	2.67	10.4	0.52	4.46
BLUE CRAB	12.33	21.5	2.62	101.43
ATLANTIC CROAKER	112.00	37.5	1.29	438.29

DENSITY OF ALL INDIVIDUALS 128.67

MEAN LENGTH OF ALL INDIVIDUALS 31.8

MEAN WEIGHT OF ALL INDIVIDUALS 2.98

SAN ANTONIO BAY

Trawl

DATA

DATE - 3 Mar 1987 STATION - SABB

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 527

TOTAL WEIGHT OF ALL INDIVIDUALS 2082.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF TOADFISH	0.33	157.0	133.14	133.14
HARDHEAD CATFISH	0.33	276.0	350.00	350.00
HARRIS' MUD CRAB	0.33	5.0	0.03	0.03
NAKED GOBY	0.33	28.0	0.61	0.61
PINFISH	0.33	95.0	23.47	23.47
GRASS SHRIMP	1.00	0.0	0.00	1.16
BAY ANCHOVY	4.67	39.4	0.75	10.17
BLUE CRAB	13.33	39.2	14.18	779.16
ATLANTIC CROAKER	155.00	39.1	1.67	784.70

DENSITY OF ALL INDIVIDUALS 175.67

MEAN LENGTH OF ALL INDIVIDUALS 75.4

MEAN WEIGHT OF ALL INDIVIDUALS 58.21

SAN ANTONIO BAY

Trawl

DATA

DATE - 3 Mar 1987 STATION - SABC

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 1223

TOTAL WEIGHT OF ALL INDIVIDUALS 2199.67 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BANK CUSK-EEL	0.33	83.0	3.77	3.77
BLACKCHEEK TOUNGFISH	0.33	80.0	6.18	6.18
BROWN SHRIMP	0.33	68.0	2.60	2.60
GULF BUTTERFISH	0.33	17.0	0.23	0.23
SPOTTED SEATROUT	0.33	88.0	10.71	10.71
PINK SHRIMP	0.67	70.0	3.44	6.87
WHITE SHRIMP	0.67	91.0	5.30	10.61
GULF MENHADEN	1.00	32.2	0.46	1.48
GRASS SHRIMP	6.67	0.0	0.00	5.03
BLUE CRAB	12.33	37.5	6.33	231.98
BAY ANCHOVY	55.33	39.9	0.78	139.62
ATLANTIC CROAKER	329.33	40.7	1.80	1780.59

DENSITY OF ALL INDIVIDUALS 407.67

MEAN LENGTH OF ALL INDIVIDUALS 53.9

MEAN WEIGHT OF ALL INDIVIDUALS 3.47

SAN ANTONIO BAY

Trawl

DATA

DATE - 4 Mar 1987 STATION - SABD

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 460

TOTAL WEIGHT OF ALL INDIVIDUALS 851.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.33	91.0	0.55	0.55
PINFISH	0.33	65.0	7.23	7.23
WHITE SHRIMP	0.33	50.0	0.84	0.84
SPOT	0.67	32.0	0.70	1.41
BROWN SHRIMP	1.33	61.0	2.37	7.59
HARRIS' MUD CRAB	1.33	12.0	0.64	2.38
GRASS SHRIMP	1.67	0.0	0.00	1.45
BLUE CRAB	2.33	16.4	0.32	2.92
GULF MENHADEN	3.33	31.9	0.50	5.24
BAY ANCHOVY	22.00	42.3	0.99	63.22
ATLANTIC CROAKER	119.67	44.2	2.13	758.38

DENSITY OF ALL INDIVIDUALS 153.33

MEAN LENGTH OF ALL INDIVIDUALS 40.5

MEAN WEIGHT OF ALL INDIVIDUALS 1.48

SAN ANTONIO BAY

Seine

DATA

DATE - 4 Mar 1987 STATION - SABA

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 245

TOTAL WEIGHT OF ALL INDIVIDUALS 105.29 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	72.0	26.05	26.05
NAKED GOBY	0.22	18.0	0.13	0.26
TIDEWATER SILVERSIDE	0.53	28.6	0.30	1.22
ATLANTIC CROAKER	0.75	32.7	1.00	7.03
GULF MENHADEN	2.98	23.6	0.14	3.64
GRASS SHRIMP	7.77	0.0	0.00	11.36
SPOT	13.72	24.9	0.43	55.73

DENSITY OF ALL INDIVIDUALS 26.07

MEAN LENGTH OF ALL INDIVIDUALS 28.5

MEAN WEIGHT OF ALL INDIVIDUALS 4.01

SAN ANTONIO BAY

Seine

DATA

DATE - 4 Mar 1987 STATION - SABB

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 715

TOTAL WEIGHT OF ALL INDIVIDUALS 135.06 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	22.0	0.93	0.93
DARTER GOBY	0.11	34.0	0.57	0.57
RAINWATER KILLIFISH	0.22	21.0	0.21	0.41
HARRIS' MUD CRAB	0.64	9.1	0.34	1.85
NAKED GOBY	0.75	17.6	0.16	1.26
SPOT	0.75	19.5	0.14	0.85
STRIPED MULLET	3.19	25.9	0.32	9.33
GRASS SHRIMP	8.08	0.0	0.00	6.31
TIDEWATER SILVERSIDE	17.34	29.5	0.34	49.39
GULF MENHADEN	44.89	24.3	0.14	64.16

DENSITY OF ALL INDIVIDUALS 76.06

MEAN LENGTH OF ALL INDIVIDUALS 20.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.31

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Mar 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 512

TOTAL WEIGHT OF ALL INDIVIDUALS 107.34 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	13.0	0.05	0.05
PINFISH	0.11	16.0	0.10	0.10
SOUTHERN FLOUNDER	0.11	10.0	0.02	0.02
SHEEPSHEAD MINNOW	0.21	29.0	0.88	1.75
NAKED GOBY	0.53	20.6	0.23	0.81
BLUE CRAB	0.64	21.0	2.52	14.27
STRIPED MULLET	1.06	25.8	0.37	3.75
SPOT	13.19	21.1	0.33	45.44
GRASS SHRIMP	15.64	0.0	0.00	19.36
GULF MENHADEN	22.87	22.9	0.09	21.79

DENSITY OF ALL INDIVIDUALS 54.46

MEAN LENGTH OF ALL INDIVIDUALS 17.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

SAN ANTONIO BAY

Seine

DATA

DATE - 4 Mar 1987 STATION - SABD

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 831

TOTAL WEIGHT OF ALL INDIVIDUALS 236.59 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	9.0	0.24	0.24
LADYFISH - L	0.11	43.0	0.17	0.17
SHEEPSHEAD MINNOW	0.21	19.0	0.25	0.49
DARTER GOBY	0.22	18.5	0.09	0.18
PINFISH	0.32	15.7	0.06	0.19
RED DRUM	0.32	56.5	3.70	11.74
STRIPED MULLET	0.64	25.5	0.26	1.59
SOUTHERN FLOUNDER	0.75	22.6	0.29	2.21
TIDEWATER SILVERSIDE	0.75	38.1	0.69	4.71
GULF PIPEFISH	1.07	75.2	0.30	2.72
BLUE CRAB	2.44	27.8	4.15	94.34
ATLANTIC CROAKER	2.87	19.5	0.20	4.82
NAKED GOBY	2.98	20.1	0.25	4.57
BROWN SHRIMP	3.52	15.4	0.02	0.60
SPOT	11.07	23.0	0.45	44.65
GULF MENHADEN	20.32	23.3	0.11	20.23
GRASS SHRIMP	40.75	0.0	0.00	43.14

DENSITY OF ALL INDIVIDUALS 88.42

MEAN LENGTH OF ALL INDIVIDUALS 26.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.66

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 4 Mar 1987 STATION - SABA

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 88

TOTAL WEIGHT OF ALL INDIVIDUALS 18.85 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.41	12.0	0.04	0.04
ATLANTIC CROAKER	0.83	17.5	0.14	0.27
HARRIS' MUD CRAB	0.83	11.0	0.98	1.96
BLUE CRAB	1.24	13.0	0.20	0.61
NAKED GOBY	2.50	15.5	0.10	0.62
GRASS SHRIMP	5.83	0.0	0.00	2.13
GULF MENHADEN	5.83	23.7	0.13	1.53
SPOT	19.16	22.0	0.27	11.69

DENSITY OF ALL INDIVIDUALS 36.66

MEAN LENGTH OF ALL INDIVIDUALS 14.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.23

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 4 Mar 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 227

TOTAL WEIGHT OF ALL INDIVIDUALS 34.65 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	1.25	5.2	0.06	0.23
MOSQUITOFISH	1.25	19.7	0.17	0.51
SPOT	1.25	16.0	0.08	0.27
TIDEWATER SILVERSIDE	2.08	27.8	0.31	1.76
GULF MENHADEN	3.33	23.1	0.11	0.89
BLUE CRAB	3.75	17.6	0.54	4.04
NAKED GOBY	37.09	20.6	0.22	20.37
GRASS SHRIMP	44.59	0.0	0.00	6.58

DENSITY OF ALL INDIVIDUALS 94.59

MEAN LENGTH OF ALL INDIVIDUALS 16.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.19

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 4 Mar 1987 STATION - SABC

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 302

TOTAL WEIGHT OF ALL INDIVIDUALS 37.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.83	80.5	0.46	0.92
BROWN SHRIMP	1.25	12.7	0.01	0.02
NAKED GOBY	1.67	17.8	0.15	0.59
SOUTHERN FLOUNDER	1.67	19.0	0.18	0.73
BLUE CRAB	3.75	17.9	0.69	6.66
GULF MENHADEN	30.41	22.3	0.09	6.09
GRASS SHRIMP	36.25	0.0	0.00	8.48
SPOT	50.00	17.0	0.13	13.71

DENSITY OF ALL INDIVIDUALS 125.84

MEAN LENGTH OF ALL INDIVIDUALS

23.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.21

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Mar 1987 STATION - SABD

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 145

TOTAL WEIGHT OF ALL INDIVIDUALS 23.76 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CODE GOBY	0.41	19.0	0.15	0.15
DARTER GOBY	0.41	14.0	0.04	0.04
GULF PIPEFISH	0.41	57.0	0.10	0.10
HARRIS' MUD CRAB	0.41	7.0	0.12	0.12
SOUTHERN FLOUNDER	1.25	15.8	0.10	0.33
TIDEWATER SILVERSIDE	2.08	34.2	0.47	2.38
BLUE CRAB	2.08	16.2	1.12	6.49
SPOT	2.50	27.9	0.68	2.62
ATLANTIC CROAKER	2.91	17.0	0.13	1.22
NAKED GOBY	6.25	17.7	0.15	1.60
GULF MENHADEN	7.91	23.0	0.11	1.79
BROWN SHRIMP	7.91	14.5	0.02	0.31
GRASS SHRIMP	25.83	0.0	0.00	6.61

DENSITY OF ALL INDIVIDUALS 60.40

MEAN LENGTH OF ALL INDIVIDUALS 20.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

SAN ANTONIO BAY Ichthyoplankton DATA

DATE - 3 Mar 1987 STATION - SABA

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 21

TOTAL WEIGHT OF ALL INDIVIDUALS 5.39 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.58	31.0	0.34	0.34
TIDEWATER SILVERSIDE	4.81	41.7	0.88	2.62
GULF MENHADEN	27.30	24.2	0.15	2.43

DENSITY OF ALL INDIVIDUALS 33.70

MEAN LENGTH OF ALL INDIVIDUALS 32.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.45

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 3 Mar 1987 STATION - SABB

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 3

TOTAL WEIGHT OF ALL INDIVIDUALS 0.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.64	30.0	0.29	0.29
GULF MENHADEN	2.61	24.5	0.19	0.37

DENSITY OF ALL INDIVIDUALS 4.25

MEAN LENGTH OF ALL INDIVIDUALS 27.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 3 Mar 1987 STATION - SABC

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 5

TOTAL WEIGHT OF ALL INDIVIDUALS 0.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
TIDEWATER SILVERSIDE	1.56	5.0	0.00	0.00
GULF MENHADEN	6.89	16.8	0.04	0.21

DENSITY OF ALL INDIVIDUALS 8.45

MEAN LENGTH OF ALL INDIVIDUALS 10.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.02

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 3 Mar 1987 STATION - SABD

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 8

TOTAL WEIGHT OF ALL INDIVIDUALS 0.02 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY EGG	1.57	0.0	0.00	0.00
GULF MENHADEN	3.00	14.0	0.01	0.02
TIDEWATER SILVERSIDE	7.81	5.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 12.39

MEAN LENGTH OF ALL INDIVIDUALS

6.6

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Trawl

DATA

DATE - 6 Apr 1987 STATION - SABA

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 389

TOTAL WEIGHT OF ALL INDIVIDUALS 805.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.67	69.0	3.26	6.51
GRASS SHRIMP	0.67	0.0	0.00	0.29
HARRIS' MUD CRAB	3.33	9.1	0.20	2.08
BAY ANCHOVY	3.67	35.4	0.56	5.94
BLUE CRAB	4.67	39.7	14.50	145.69
GULF MENHADEN	4.67	31.6	0.59	8.03
SPOT	16.67	36.7	1.61	76.54
ATLANTIC CROAKER	95.33	43.7	2.20	560.12

DENSITY OF ALL INDIVIDUALS 129.67

MEAN LENGTH OF ALL INDIVIDUALS

33.1

MEAN WEIGHT OF ALL INDIVIDUALS

2.87

SAN ANTONIO BAY

Trawl

DATA

DATE - 6 Apr 1987 STATION - SABB

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 851

TOTAL WEIGHT OF ALL INDIVIDUALS 2503.67 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.52
HOGCHOKER	0.33	76.0	16.32	16.32
HARRIS' MUD CRAB	0.67	8.5	0.25	0.49
SPOT	0.67	39.5	1.48	2.97
FRESHWATER SHRIMP	1.00	70.0	4.44	14.02
LINED SOLE	1.00	31.8	1.12	3.16
SOUTHERN FLOUNDER	1.67	72.2	24.61	147.14
BAY ANCHOVY	6.00	42.1	1.03	15.83
BLUE CRAB	12.00	42.7	17.89	381.20
ATLANTIC CROAKER	260.00	43.6	2.53	1922.02

DENSITY OF ALL INDIVIDUALS 283.67

MEAN LENGTH OF ALL INDIVIDUALS 42.6

MEAN WEIGHT OF ALL INDIVIDUALS 6.97

SAN ANTONIO BAY

Trawl

DATA

DATE - 6 Apr 1987 STATION - SABC

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 502

TOTAL WEIGHT OF ALL INDIVIDUALS 2927.23 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	30.0	0.36	0.36
BLACKCHEEK TOUNGFISH	0.33	64.0	3.20	3.20
GRASS SHRIMP	0.33	0.0	0.00	0.42
PINK SHRIMP	0.33	99.0	8.44	8.44
BANK CUSK-EEL	0.67	96.0	5.51	11.01
HOGCHOKER	0.67	77.0	17.82	35.64
LINED SOLE	0.67	33.5	1.63	3.26
GULF MENHADEN	1.00	29.3	0.57	2.04
HARDHEAD CATFISH	1.00	83.7	10.43	31.02
BAY ANCHOVY	2.33	41.6	0.61	5.33
SPOT	2.33	44.6	2.50	17.92
BROWN SHRIMP	3.33	40.0	0.62	6.20
BLUE CRAB	7.00	46.1	22.98	338.58
ATLANTIC CROAKER	147.00	60.8	5.29	2463.81

DENSITY OF ALL INDIVIDUALS 167.33

MEAN LENGTH OF ALL INDIVIDUALS 53.3

MEAN WEIGHT OF ALL INDIVIDUALS 5.71

SAN ANTONIO BAY

Trawl

DATA

DATE - 7 Apr 1987 STATION - SABD

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 1133

TOTAL WEIGHT OF ALL INDIVIDUALS 4186.18 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TOUNGFISH	0.33	49.0	1.34	1.34
HOGCHOKER	0.33	76.0	17.08	17.08
SOUTHERN FLOUNDER	0.33	37.0	0.48	0.48
HARRIS' MUD CRAB	0.67	13.5	0.76	1.52
PINFISH	0.67	31.5	0.68	1.35
ROUGHNECK SHRIMP	0.67	45.0	0.93	1.85
XANTHID SP.	0.67	10.5	0.34	0.68
GRASS SHRIMP	1.00	0.0	0.00	0.64
BANK CUSK-EEL	1.33	90.3	4.69	17.03
GULF MENHADEN	1.33	27.0	0.30	1.20
BAY WHIFF	2.00	28.9	0.37	2.29
PINK SHRIMP	3.67	79.0	4.34	57.47
BROWN SHRIMP	14.33	40.3	0.68	30.97
BAY ANCHOVY	19.67	52.6	1.48	89.87
BLUE CRAB	21.00	39.1	9.12	578.21
SPOT	24.33	41.1	2.21	149.48
ATLANTIC CROAKER	285.33	52.3	3.48	3234.72

DENSITY OF ALL INDIVIDUALS 377.67

MEAN LENGTH OF ALL INDIVIDUALS 41.9

MEAN WEIGHT OF ALL INDIVIDUALS 2.84

SAN ANTONIO BAY

Seine

DATA

DATE - 7 Apr 1987 STATION - SABA

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 2598

TOTAL WEIGHT OF ALL INDIVIDUALS 307.96 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DARTER GOBY	0.11	18.0	0.09	0.09
GULF KILLIFISH	0.11	57.0	4.32	4.32
RED DRUM	0.11	75.0	8.26	8.26
NAKED GOBY	0.21	19.0	0.16	0.31
BROWN SHRIMP	0.22	13.5	0.02	0.03
HARRIS' MUD CRAB	0.22	4.0	0.03	0.05
ATLANTIC CROAKER	0.32	53.0	3.40	8.82
LADYFISH - L	0.32	30.8	0.11	0.34
STRIPED MULLET	0.53	22.6	0.20	0.98
TIDEWATER SILVERSIDE	0.64	33.3	0.45	2.60
PINFISH	1.17	21.6	0.31	2.97
GRASS SHRIMP	1.91	0.0	0.00	2.87
SPOT	4.15	29.9	0.95	36.37
GULF MENHADEN	266.38	22.2	0.09	239.95

DENSITY OF ALL INDIVIDUALS 276.38

MEAN LENGTH OF ALL INDIVIDUALS 28.6

MEAN WEIGHT OF ALL INDIVIDUALS 1.31

SAN ANTONIO BAY

Seine

DATA

DATE - 7 Apr 1987 STATION - SABB

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 1067

TOTAL WEIGHT OF ALL INDIVIDUALS 106.86 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	15.0	0.07	0.07
BLUE CRAB	0.11	24.0	0.91	0.91
LADYFISH - L	0.11	30.0	0.08	0.08
MOSQUITOFISH	0.11	18.0	0.11	0.11
SAILFIN MOLLY	0.11	30.0	0.76	0.76
SPOT	0.21	21.5	0.22	0.45
PINFISH	0.32	16.0	0.09	0.26
STRIPED MULLET	0.95	27.5	0.61	2.90
NAKED GOBY	0.96	19.3	0.19	1.78
GRASS SHRIMP	1.38	0.0	0.00	1.20
TIDEWATER SILVERSIDE	3.30	34.0	0.54	15.39
GULF MENHADEN	105.85	21.9	0.09	82.95

DENSITY OF ALL INDIVIDUALS 113.49

MEAN LENGTH OF ALL INDIVIDUALS 21.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.31

SAN ANTONIO BAY

Seine

DATA

DATE - 7 Apr 1987 STATION - SABC

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 2038

TOTAL WEIGHT OF ALL INDIVIDUALS 303.09 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	16.0	0.11	0.11
BLUE CRAB	0.11	27.0	1.40	1.40
HARRIS' MUD CRAB	0.11	5.0	0.04	0.04
STRIPED MULLET	0.11	22.0	0.18	0.18
TIDEWATER SILVERSIDE	0.32	38.0	0.73	2.24
NAKED GOBY	0.54	29.0	0.63	3.19
PINFISH	1.17	20.5	0.22	2.11
SPOT	1.59	27.7	0.84	15.33
GULF PIPEFISH	1.59	75.4	0.40	6.24
LADYFISH - L	2.44	31.3	0.11	2.77
GRASS SHRIMP	17.34	0.0	0.00	29.89
GULF MENHADEN	191.38	21.6	0.08	239.59

DENSITY OF ALL INDIVIDUALS 216.79

MEAN LENGTH OF ALL INDIVIDUALS 26.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.40

SAN ANTONIO BAY

Seine

DATA

DATE - 7 Apr 1987 STATION - SABD

TOTAL # SPECIES - 16

TOTAL # OF INDIVIDUALS - 534

TOTAL WEIGHT OF ALL INDIVIDUALS 325.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	71.0	9.71	9.71
GULF PIPEFISH	0.11	69.0	0.20	0.20
HARRIS' MUD CRAB	0.11	5.0	0.07	0.07
SHEEPSHEAD MINNOW	0.11	21.0	0.34	0.34
SOUTHERN FLOUNDER	0.11	37.0	0.92	0.92
LADYFISH - L	0.32	32.7	0.11	0.33
DARTER GOBY	0.32	20.3	0.16	0.39
TIDEWATER SILVERSIDE	0.75	38.1	0.98	9.34
NAKED GOBY	1.06	25.6	0.39	3.10
GULF MENHADEN	1.92	21.9	0.07	1.29
STRIPED MULLET	2.02	22.8	0.19	3.89
BROWN SHRIMP	3.72	20.3	0.07	2.71
PINFISH	4.68	20.1	0.25	12.24
BLUE CRAB	5.96	31.8	4.17	184.44
SPOT	7.45	23.1	0.29	22.62
GRASS SHRIMP	28.08	0.0	0.00	73.94

DENSITY OF ALL INDIVIDUALS 56.80

MEAN LENGTH OF ALL INDIVIDUALS 28.7

MEAN WEIGHT OF ALL INDIVIDUALS 1.12

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 7 Apr 1987 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 36

TOTAL WEIGHT OF ALL INDIVIDUALS 4.85 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOT	0.41	26.0	0.39	0.39
HARRIS' MUD CRAB	0.83	5.0	0.05	0.11
PINFISH	0.83	13.5	0.04	0.08
GULF MENHADEN	1.66	21.7	0.08	0.32
NAKED GOBY	1.67	17.5	0.14	0.57
GRASS SHRIMP	9.59	0.0	0.00	3.38

DENSITY OF ALL INDIVIDUALS 15.00

MEAN LENGTH OF ALL INDIVIDUALS 13.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.12

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 7 Apr 1987 STATION - SABC

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 217

TOTAL WEIGHT OF ALL INDIVIDUALS 21.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	15.0	0.64	0.64
HARRIS' MUD CRAB	0.41	9.0	0.33	0.33
LADYFISH - L	0.83	28.5	0.09	0.18
PINFISH	1.66	14.5	0.07	0.32
SPOT	2.50	29.8	0.66	3.77
NAKED GOBY	2.91	22.7	0.32	2.61
GRASS SHRIMP	11.66	0.0	0.00	6.27
GULF MENHADEN	14.16	20.5	0.07	2.20
BROWN SHRIMP	55.84	18.4	0.06	5.46

DENSITY OF ALL INDIVIDUALS 90.40

MEAN LENGTH OF ALL INDIVIDUALS

17.6

MEAN WEIGHT OF ALL INDIVIDUALS

0.25

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 6 Apr 1987 STATION - SABD

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 413

TOTAL WEIGHT OF ALL INDIVIDUALS 100.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.83	25.5	0.50	1.00
GULF PIPEFISH	1.25	60.7	0.22	0.60
BAY WHIFF	1.66	23.2	0.23	1.04
HARRIS' MUD CRAB	2.08	5.0	0.08	0.27
GULF MENHADEN	2.50	21.1	0.27	1.21
SPOT	2.50	28.5	0.74	5.06
DARTER GOBY	4.16	21.6	0.16	1.42
NAKED GOBY	4.16	18.5	0.17	2.01
BLUE CRAB	5.83	33.0	5.49	66.19
GRASS SHRIMP	13.34	0.0	0.00	10.83
BROWN SHRIMP	133.75	17.5	0.04	10.50

DENSITY OF ALL INDIVIDUALS 172.08

MEAN LENGTH OF ALL INDIVIDUALS 23.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.72

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 6 Apr 1987 STATION - SABA

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 48

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	1.30	12.0	0.00	0.00
TIDEWATER SILVERSIDE EGG	1.30	0.0	0.00	0.00
WHITE SHRIMP	1.30	11.0	0.00	0.00
TIDEWATER SILVERSIDE	8.95	4.2	0.00	0.00
GULF MENHADEN	46.17	24.1	0.19	0.00

DENSITY OF ALL INDIVIDUALS 59.03

MEAN LENGTH OF ALL INDIVIDUALS 10.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.04

SAN ANTONIO BAY

Ichthyoplankton

DATA

DATE - 6 Apr 1987 STATION - SABB

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 357

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	3.33	14.7	0.06	0.00
TIDEWATER SILVERSIDE	71.90	5.6	0.01	0.00
GULF MENHADEN	338.00	23.3	0.14	0.00

DENSITY OF ALL INDIVIDUALS 413.23

MEAN LENGTH OF ALL INDIVIDUALS 14.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.07

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 6 Apr 1987 STATION - SABC

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 431

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	1.10	12.0	0.01	0.00
SPECKLED WORM EEL	4.37	55.7	0.00	0.00
BAY ANCHOVY EGG	4.41	0.0	0.00	0.00
TIDEWATER SILVERSIDE	5.28	28.6	0.74	0.00
PINFISH	57.34	13.2	0.04	0.00
GULF MENHADEN	383.35	24.1	0.20	0.00

DENSITY OF ALL INDIVIDUALS 455.84

MEAN LENGTH OF ALL INDIVIDUALS 22.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.16

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 6 Apr 1987 STATION - SABD

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 806

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	2.35	51.5	0.00	0.00
LADYFISH - L	2.37	18.5	0.08	0.00
GULF PIPEFISH	3.43	8.8	0.00	0.00
PINFISH	10.39	8.3	0.02	0.00
TIDEWATER SILVERSIDE	11.59	5.1	0.00	0.00
LEAST PUFFER	12.35	5.2	0.00	0.00
WHITE SHRIMP	92.64	9.3	0.00	0.00
BROWN SHRIMP	156.59	9.4	0.00	0.00
BAY ANCHOVY EGG	185.37	0.0	0.00	0.00
GULF MENHADEN	453.75	16.0	0.09	0.00

DENSITY OF ALL INDIVIDUALS 930.82

MEAN LENGTH OF ALL INDIVIDUALS 13.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.02

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABA

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 301

TOTAL WEIGHT OF ALL INDIVIDUALS 865.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.33	115.0	21.71	21.71
GIZZARD SHAD	0.33	45.0	1.30	1.30
PINFISH	0.33	39.0	1.89	1.89
SOUTHERN FLOUNDER	0.33	65.0	4.65	4.65
SPOT	0.67	48.5	2.81	5.63
SAND SEATROUT	2.33	50.7	2.47	17.92
BAY ANCHOVY	3.67	49.4	1.63	17.93
BLUE CRAB	4.67	59.1	20.05	278.54
ATLANTIC CROAKER	21.00	54.9	3.74	231.25
BROWN SHRIMP	25.67	60.2	1.79	140.45
GULF MENHADEN	41.00	38.9	1.34	143.93

DENSITY OF ALL INDIVIDUALS 100.33

MEAN LENGTH OF ALL INDIVIDUALS

56.9

MEAN WEIGHT OF ALL INDIVIDUALS

5.76

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 269

TOTAL WEIGHT OF ALL INDIVIDUALS 648.72 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SAND SEATROUT	0.33	73.0	7.63	7.63
SPOT	0.67	49.5	3.38	6.72
BLUE CRAB	1.33	61.7	11.45	48.88
SILVER PERCH	2.33	33.5	1.02	7.20
BAY ANCHOVY	5.67	45.6	1.54	30.49
ATLANTIC CROAKER	6.33	69.5	7.33	135.51
BROWN SHRIMP	35.00	61.2	2.27	249.13
GULF MENHADEN	38.00	40.2	1.56	163.16

DENSITY OF ALL INDIVIDUALS 89.67

MEAN LENGTH OF ALL INDIVIDUALS 54.3

MEAN WEIGHT OF ALL INDIVIDUALS 4.52

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABC

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 158

TOTAL WEIGHT OF ALL INDIVIDUALS 797.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC MIDSHIPMAN	0.33	25.0	0.41	0.41
SPOT	0.33	55.0	3.97	3.97
BLUE CRAB	3.00	64.7	23.11	246.33
GULF MENHADEN	6.67	48.8	2.46	48.18
ATLANTIC CROAKER	8.67	63.2	5.66	150.99
BAY ANCHOVY	10.00	51.9	2.06	63.53
BROWN SHRIMP	23.67	75.2	3.81	283.97

DENSITY OF ALL INDIVIDUALS 52.67

MEAN LENGTH OF ALL INDIVIDUALS 54.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.93

SAN ANTONIO BAY

Trawl

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 269

TOTAL WEIGHT OF ALL INDIVIDUALS 1351.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.64
SILVER PERCH	0.67	38.0	1.32	2.65
SPOT	0.67	64.5	7.18	14.35
SAND SEATROUT	1.00	55.7	3.56	10.67
ATLANTIC THREADFIN	2.33	69.6	11.90	66.75
BLUE CRAB	4.00	69.9	44.76	492.96
ATLANTIC CROAKER	8.67	67.1	6.79	167.75
BROWN SHRIMP	35.67	72.8	3.45	391.52
BAY ANCHOVY	36.33	51.2	1.90	204.26

DENSITY OF ALL INDIVIDUALS 89.67

MEAN LENGTH OF ALL INDIVIDUALS 54.3

MEAN WEIGHT OF ALL INDIVIDUALS 8.98

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABA

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 168

TOTAL WEIGHT OF ALL INDIVIDUALS 111.05 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC NEEDLEFISH	0.11	72.0	0.39	0.39
HARRIS' MUD CRAB	0.11	3.0	0.01	0.01
PINFISH	0.11	47.0	2.70	2.70
SPOT	0.32	42.3	1.84	5.52
BLUE CRAB	0.32	35.7	4.88	10.68
SILVER PERCH	0.32	31.0	0.72	2.15
NAKED GOBY	1.60	14.3	0.07	0.97
ROUGH SILVERSIDE	1.91	23.1	0.16	3.15
GULF MENHADEN	2.02	32.5	0.76	14.68
BROWN SHRIMP	3.19	42.2	1.33	54.90
BAY ANCHOVY	3.62	22.1	0.12	4.20
GRASS SHRIMP	4.25	0.0	0.00	11.70

DENSITY OF ALL INDIVIDUALS 17.86

MEAN LENGTH OF ALL INDIVIDUALS

30.4

MEAN WEIGHT OF ALL INDIVIDUALS

1.08

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABB

TOTAL # SPECIES - 16

TOTAL # OF INDIVIDUALS - 468

TOTAL WEIGHT OF ALL INDIVIDUALS 280.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC NEEDLEFISH	0.11	87.0	0.76	0.76
BLUE CRAB	0.11	20.0	0.63	0.63
SHEEPSHEAD MINNOW	0.11	26.0	0.34	0.34
GREEN GOBY	0.22	14.0	0.03	0.06
LADYFISH	0.32	32.2	0.26	0.83
GULF MENHADEN	0.43	33.0	0.53	2.10
ATLANTIC CROAKER	0.54	64.0	5.13	25.86
ROUGH SILVERSIDE	0.75	41.1	1.11	7.56
TIDEWATER SILVERSIDE	0.75	28.3	0.17	1.28
NAKED GOBY	0.95	18.5	0.16	1.45
HARRIS' MUD CRAB	0.96	8.0	0.20	2.43
SPOTTED SEATROUT	0.96	30.8	0.54	4.40
SILVER PERCH	4.47	20.7	0.23	10.94
GRASS SHRIMP	8.93	0.0	0.00	33.32
BAY ANCHOVY	14.79	24.6	0.17	22.73
BROWN SHRIMP	15.43	48.0	1.19	165.51

DENSITY OF ALL INDIVIDUALS 49.78

MEAN LENGTH OF ALL INDIVIDUALS 31.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.71

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 127

TOTAL WEIGHT OF ALL INDIVIDUALS 53.80 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
MOSQUITOFISH	0.11	30.0	0.68	0.68
NAKED GOBY	0.11	10.0	0.06	0.06
STRIPED MULLET	0.11	42.0	1.73	1.73
TIDEWATER SILVERSIDE	0.11	24.0	0.16	0.16
GULF MENHADEN	0.22	24.5	0.26	0.52
STRIPED ANCHOVY	0.53	31.0	0.38	1.89
GRASS SHRIMP	0.85	0.0	0.00	1.06
BROWN SHRIMP	1.92	61.1	2.07	37.47
ROUGH SILVERSIDE	2.87	23.4	0.14	3.37
BAY ANCHOVY	6.70	22.2	0.12	6.86

DENSITY OF ALL INDIVIDUALS 13.51

MEAN LENGTH OF ALL INDIVIDUALS 26.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.56

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 19

TOTAL # OF INDIVIDUALS - 10341

TOTAL WEIGHT OF ALL INDIVIDUALS 3388.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	45.0	2.41	2.41
SAND SEATROUT	0.11	21.0	0.18	0.18
CLOWN GOBY	0.21	36.0	0.67	1.34
SPECKLED WORM EEL	0.21	141.5	2.73	5.46
SPOT	0.22	44.0	1.82	3.63
ATLANTIC NEEDLEFISH	0.32	85.2	0.76	2.45
BAY ANCHOVY	0.32	20.3	0.22	0.46
STRIPED MULLET	0.32	65.7	7.25	22.82
RAINWATER KILLIFISH	0.85	16.1	0.08	0.51
NAKED GOBY	1.70	17.4	0.17	3.40
BLUE CRAB	2.12	35.1	4.66	87.42
SILVER PERCH	2.44	28.6	0.69	15.95
TIDEWATER SILVERSIDE	2.55	26.9	0.26	5.98
SPOTTED SEATROUT	3.51	27.6	0.47	15.44
HARRIS' MUD CRAB	7.87	7.4	0.14	11.77
GULF PIPEFISH	12.66	68.3	0.22	27.54
PINFISH	59.90	34.5	1.35	787.26
BROWN SHRIMP	70.22	33.4	0.60	349.60
GRASS SHRIMP	934.47	0.0	0.00	2045.12

DENSITY OF ALL INDIVIDUALS 1100.10

MEAN LENGTH OF ALL INDIVIDUALS 39.7

MEAN WEIGHT OF ALL INDIVIDUALS 1.30

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 79

TOTAL WEIGHT OF ALL INDIVIDUALS 12.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	4.0	0.01	0.01
PINFISH	0.41	42.0	2.50	2.50
RAINWATER KILLIFISH	0.41	17.0	0.12	0.12
GRASS SHRIMP	0.83	0.0	0.00	0.34
BROWN SHRIMP	7.50	23.2	0.43	7.18
NAKED GOBY	23.33	12.5	0.05	2.80

DENSITY OF ALL INDIVIDUALS 32.91

MEAN LENGTH OF ALL INDIVIDUALS 16.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.52

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABB

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 226

TOTAL WEIGHT OF ALL INDIVIDUALS 36.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CODE GOBY	0.41	37.0	0.96	0.96
GULF PIPEFISH	0.41	35.0	0.02	0.02
SILVER PERCH	0.41	13.0	0.01	0.01
GREEN GOBY	1.24	12.0	0.02	0.07
BAY ANCHOVY	4.58	20.2	0.09	0.83
HARRIS' MUD CRAB	9.16	5.9	0.19	6.14
GRASS SHRIMP	14.58	0.0	0.00	6.38
NAKED GOBY	23.75	13.6	0.11	5.76
BROWN SHRIMP	39.59	18.8	0.17	16.38

DENSITY OF ALL INDIVIDUALS 94.15

MEAN LENGTH OF ALL INDIVIDUALS 17.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 99

TOTAL WEIGHT OF ALL INDIVIDUALS 16.37 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.41	33.0	1.01	1.01
SPOTTED SEATROUT	0.41	13.0	0.04	0.04
HARRIS' MUD CRAB	1.66	5.5	0.20	0.78
GULF PIPEFISH	2.08	61.4	0.17	0.86
TIDEWATER SILVERSIDE	2.91	13.2	0.03	0.16
SILVER PERCH	3.33	20.4	0.25	1.93
BAY ANCHOVY	4.58	17.2	0.05	0.46
BROWN SHRIMP	5.41	23.6	0.40	4.93
NAKED GOBY	5.83	19.9	0.26	1.94
GRASS SHRIMP	14.58	0.0	0.00	4.26

DENSITY OF ALL INDIVIDUALS 41.24

MEAN LENGTH OF ALL INDIVIDUALS 20.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 1375

TOTAL WEIGHT OF ALL INDIVIDUALS 234.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	16.0	0.02	0.02
CODE GOBY	0.41	28.0	0.48	0.48
SPECKLED WORM EEL	0.41	78.0	0.26	0.26
SPOT	0.41	44.0	2.44	2.44
CLOWN GOBY	1.24	13.0	0.04	0.12
RAINWATER KILLIFISH	2.08	11.1	0.03	0.12
SPOTTED SEATROUT	2.08	20.9	0.18	0.78
SILVER PERCH	2.50	17.7	0.22	1.13
BLUE CRAB	4.16	16.8	3.42	52.93
PINFISH	6.25	31.8	1.21	22.12
HARRIS' MUD CRAB	8.33	5.1	0.05	1.00
GULF PIPEFISH	42.50	48.5	0.08	8.29
NAKED GOBY	69.16	12.2	0.05	8.58
GRASS SHRIMP	207.08	0.0	0.00	72.63
BROWN SHRIMP	225.84	19.6	0.17	63.67

DENSITY OF ALL INDIVIDUALS 572.89

MEAN LENGTH OF ALL INDIVIDUALS 24.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.58

SAN ANTONIO BAY

Ichthyoplankton

DATA

DATE - 2 Jun 1987 STATION - SABA

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 506

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.78	17.0	0.00	0.00
ATLANTIC NEEDLEFISH	1.54	27.5	0.06	0.00
HALFBEAK	2.32	6.7	0.00	0.00
GULF MENHADEN	11.31	20.0	0.27	0.00
ROUGH SILVERSIDE	40.57	15.1	0.11	0.00
NAKED GOBY	73.46	3.2	0.00	0.00
TIDEWATER SILVERSIDE	87.47	3.2	0.00	0.00
BAY ANCHOVY	163.85	7.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 381.30

MEAN LENGTH OF ALL INDIVIDUALS 12.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.05

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 745

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FEATHER BLENNY	1.19	0.0	0.00	0.00
ATLANTIC NEEDLEFISH	1.26	0.0	0.00	0.00
GULF PIPEFISH	1.26	0.0	0.00	0.00
GULF MENHADEN	2.32	0.0	0.00	0.00
NAKED GOBY	88.59	0.0	0.00	0.00
BAY ANCHOVY	185.56	0.0	0.00	0.00
TIDEWATER SILVERSIDE	236.00	0.0	0.00	0.00
ROUGH SILVERSIDE	324.03	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 840.21

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABC

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 980

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY EGG	2.18	0.0	0.00	0.00
TIDEWATER SILVERSIDE	42.11	0.0	0.00	0.00
NAKED GOBY	159.55	1.4	0.00	0.00
ROUGH SILVERSIDE	162.48	2.1	0.00	0.00
BAY ANCHOVY	728.90	3.2	0.01	0.00

DENSITY OF ALL INDIVIDUALS 1095.22

MEAN LENGTH OF ALL INDIVIDUALS

1.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABD

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 622

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	71.52	4.7	0.00	0.00
ROUGH SILVERSIDE	151.78	12.7	0.06	0.00
BAY ANCHOVY	173.29	10.3	0.01	0.00
BAY ANCHOVY EGG	238.78	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 635.37

MEAN LENGTH OF ALL INDIVIDUALS 6.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.02

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABA

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 301

TOTAL WEIGHT OF ALL INDIVIDUALS 865.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.33	115.0	21.71	21.71
GIZZARD SHAD	0.33	45.0	1.30	1.30
PINFISH	0.33	39.0	1.89	1.89
SOUTHERN FLOUNDER	0.33	65.0	4.65	4.65
SPOT	0.67	48.5	2.81	5.63
SAND SEATROUT	2.33	50.7	2.47	17.92
BAY ANCHOVY	3.67	49.4	1.63	17.93
BLUE CRAB	4.67	59.1	20.05	278.54
ATLANTIC CROAKER	21.00	54.9	3.74	231.25
BROWN SHRIMP	25.67	60.2	1.79	140.45
GULF MENHADEN	41.00	38.9	1.34	143.93

DENSITY OF ALL INDIVIDUALS 100.33

MEAN LENGTH OF ALL INDIVIDUALS

56.9

MEAN WEIGHT OF ALL INDIVIDUALS

5.76

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 269

TOTAL WEIGHT OF ALL INDIVIDUALS 648.72 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SAND SEATROUT	0.33	73.0	7.63	7.63
SPOT	0.67	49.5	3.38	6.72
BLUE CRAB	1.33	61.7	11.45	48.88
SILVER PERCH	2.33	33.5	1.02	7.20
BAY ANCHOVY	5.67	45.6	1.54	30.49
ATLANTIC CROAKER	6.33	69.5	7.33	135.51
BROWN SHRIMP	35.00	61.2	2.27	249.13
GULF MENHADEN	38.00	40.2	1.56	163.16

DENSITY OF ALL INDIVIDUALS 89.67

MEAN LENGTH OF ALL INDIVIDUALS 54.3

MEAN WEIGHT OF ALL INDIVIDUALS 4.52

SAN ANTONIO BAY

Trawl

DATA

DATE - 2 Jun 1987 STATION - SABC

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 158

TOTAL WEIGHT OF ALL INDIVIDUALS 797.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC MIDSHIPMAN	0.33	25.0	0.41	0.41
SPOT	0.33	55.0	3.97	3.97
BLUE CRAB	3.00	64.7	23.11	246.33
GULF MENHADEN	6.67	48.8	2.46	48.18
ATLANTIC CROAKER	8.67	63.2	5.66	150.99
BAY ANCHOVY	10.00	51.9	2.06	63.53
BROWN SHRIMP	23.67	75.2	3.81	283.97

DENSITY OF ALL INDIVIDUALS 52.67

MEAN LENGTH OF ALL INDIVIDUALS 54.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.93

SAN ANTONIO BAY

Trawl

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 269

TOTAL WEIGHT OF ALL INDIVIDUALS 1351.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.64
SILVER PERCH	0.67	38.0	1.32	2.65
SPOT	0.67	64.5	7.18	14.35
SAND SEATROUT	1.00	55.7	3.56	10.67
ATLANTIC THREADFIN	2.33	69.6	11.90	66.75
BLUE CRAB	4.00	69.9	44.76	492.96
ATLANTIC CROAKER	8.67	67.1	6.79	167.75
BROWN SHRIMP	35.67	72.8	3.45	391.52
BAY ANCHOVY	36.33	51.2	1.90	204.26

DENSITY OF ALL INDIVIDUALS 89.67

MEAN LENGTH OF ALL INDIVIDUALS 54.3

MEAN WEIGHT OF ALL INDIVIDUALS 8.98

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABA

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 168

TOTAL WEIGHT OF ALL INDIVIDUALS 111.05 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC NEEDLEFISH	0.11	72.0	0.39	0.39
HARRIS' MUD CRAB	0.11	3.0	0.01	0.01
PINFISH	0.11	47.0	2.70	2.70
SPOT	0.32	42.3	1.84	5.52
BLUE CRAB	0.32	35.7	4.88	10.68
SILVER PERCH	0.32	31.0	0.72	2.15
NAKED GOBY	1.60	14.3	0.07	0.97
ROUGH SILVERSIDE	1.91	23.1	0.16	3.15
GULF MENHADEN	2.02	32.5	0.76	14.68
BROWN SHRIMP	3.19	42.2	1.33	54.90
BAY ANCHOVY	3.62	22.1	0.12	4.20
GRASS SHRIMP	4.25	0.0	0.00	11.70

DENSITY OF ALL INDIVIDUALS 17.86

MEAN LENGTH OF ALL INDIVIDUALS 30.4

MEAN WEIGHT OF ALL INDIVIDUALS 1.08

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABB

TOTAL # SPECIES - 16

TOTAL # OF INDIVIDUALS - 468

TOTAL WEIGHT OF ALL INDIVIDUALS 280.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC NEEDLEFISH	0.11	87.0	0.76	0.76
BLUE CRAB	0.11	20.0	0.63	0.63
SHEEPSHEAD MINNOW	0.11	26.0	0.34	0.34
GREEN GOBY	0.22	14.0	0.03	0.06
LADYFISH	0.32	32.2	0.26	0.83
GULF MENHADEN	0.43	33.0	0.53	2.10
ATLANTIC CROAKER	0.54	64.0	5.13	25.86
ROUGH SILVERSIDE	0.75	41.1	1.11	7.56
TIDEWATER SILVERSIDE	0.75	28.3	0.17	1.28
NAKED GOBY	0.95	18.5	0.16	1.45
HARRIS' MUD CRAB	0.96	8.0	0.20	2.43
SPOTTED SEATROUT	0.96	30.8	0.54	4.40
SILVER PERCH	4.47	20.7	0.23	10.94
GRASS SHRIMP	8.93	0.0	0.00	33.32
BAY ANCHOVY	14.79	24.6	0.17	22.73
BROWN SHRIMP	15.43	48.0	1.19	165.51

DENSITY OF ALL INDIVIDUALS 49.78

MEAN LENGTH OF ALL INDIVIDUALS 31.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.71

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 127

TOTAL WEIGHT OF ALL INDIVIDUALS 53.80 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
MOSQUITOFISH	0.11	30.0	0.68	0.68
NAKED GOBY	0.11	10.0	0.06	0.06
STRIPED MULLET	0.11	42.0	1.73	1.73
TIDEWATER SILVERSIDE	0.11	24.0	0.16	0.16
GULF MENHADEN	0.22	24.5	0.26	0.52
STRIPED ANCHOVY	0.53	31.0	0.38	1.89
GRASS SHRIMP	0.85	0.0	0.00	1.06
BROWN SHRIMP	1.92	61.1	2.07	37.47
ROUGH SILVERSIDE	2.87	23.4	0.14	3.37
BAY ANCHOVY	6.70	22.2	0.12	6.86

DENSITY OF ALL INDIVIDUALS 13.51

MEAN LENGTH OF ALL INDIVIDUALS 26.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.56

SAN ANTONIO BAY

Seine

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 19

TOTAL # OF INDIVIDUALS - 10341

TOTAL WEIGHT OF ALL INDIVIDUALS 3388.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	45.0	2.41	2.41
SAND SEATROUT	0.11	21.0	0.18	0.18
CLOWN GOBY	0.21	36.0	0.67	1.34
SPECKLED WORM EEL	0.21	141.5	2.73	5.46
SPOT	0.22	44.0	1.82	3.63
ATLANTIC NEEDLEFISH	0.32	85.2	0.76	2.45
BAY ANCHOVY	0.32	20.3	0.22	0.46
STRIPED MULLET	0.32	65.7	7.25	22.82
RAINWATER KILLIFISH	0.85	16.1	0.08	0.51
NAKED GOBY	1.70	17.4	0.17	3.40
BLUE CRAB	2.12	35.1	4.66	87.42
SILVER PERCH	2.44	28.6	0.69	15.95
TIDEWATER SILVERSIDE	2.55	26.9	0.26	5.98
SPOTTED SEATROUT	3.51	27.6	0.47	15.44
HARRIS' MUD CRAB	7.87	7.4	0.14	11.77
GULF PIPEFISH	12.66	68.3	0.22	27.54
PINFISH	59.90	34.5	1.35	787.26
BROWN SHRIMP	70.22	33.4	0.60	349.60
GRASS SHRIMP	934.47	0.0	0.00	2045.12

DENSITY OF ALL INDIVIDUALS 1100.10

MEAN LENGTH OF ALL INDIVIDUALS

39.7

MEAN WEIGHT OF ALL INDIVIDUALS

1.30

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 79

TOTAL WEIGHT OF ALL INDIVIDUALS 12.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	4.0	0.01	0.01
PINFISH	0.41	42.0	2.50	2.50
RAINWATER KILLIFISH	0.41	17.0	0.12	0.12
GRASS SHRIMP	0.83	0.0	0.00	0.34
BROWN SHRIMP	7.50	23.2	0.43	7.18
NAKED GOBY	23.33	12.5	0.05	2.80

DENSITY OF ALL INDIVIDUALS 32.91

MEAN LENGTH OF ALL INDIVIDUALS

16.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.52

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABB

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 226

TOTAL WEIGHT OF ALL INDIVIDUALS 36.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CODE GOBY	0.41	37.0	0.96	0.96
GULF PIPEFISH	0.41	35.0	0.02	0.02
SILVER PERCH	0.41	13.0	0.01	0.01
GREEN GOBY	1.24	12.0	0.02	0.07
BAY ANCHOVY	4.58	20.2	0.09	0.83
HARRIS' MUD CRAB	9.16	5.9	0.19	6.14
GRASS SHRIMP	14.58	0.0	0.00	6.38
NAKED GOBY	23.75	13.6	0.11	5.76
BROWN SHRIMP	39.59	18.8	0.17	16.38

DENSITY OF ALL INDIVIDUALS 94.15

MEAN LENGTH OF ALL INDIVIDUALS 17.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 99

TOTAL WEIGHT OF ALL INDIVIDUALS 16.37 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.41	33.0	1.01	1.01
SPOTTED SEATROUT	0.41	13.0	0.04	0.04
HARRIS' MUD CRAB	1.66	5.5	0.20	0.78
GULF PIPEFISH	2.08	61.4	0.17	0.86
TIDEWATER SILVERSIDE	2.91	13.2	0.03	0.16
SILVER PERCH	3.33	20.4	0.25	1.93
BAY ANCHOVY	4.58	17.2	0.05	0.46
BROWN SHRIMP	5.41	23.6	0.40	4.93
NAKED GOBY	5.83	19.9	0.26	1.94
GRASS SHRIMP	14.58	0.0	0.00	4.26

DENSITY OF ALL INDIVIDUALS 41.24

MEAN LENGTH OF ALL INDIVIDUALS 20.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 3 Jun 1987 STATION - SABD

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 1375

TOTAL WEIGHT OF ALL INDIVIDUALS 234.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	16.0	0.02	0.02
CODE GOBY	0.41	28.0	0.48	0.48
SPECKLED WORM EEL	0.41	78.0	0.26	0.26
SPOT	0.41	44.0	2.44	2.44
CLOWN GOBY	1.24	13.0	0.04	0.12
RAINWATER KILLIFISH	2.08	11.1	0.03	0.12
SPOTTED SEATROUT	2.08	20.9	0.18	0.78
SILVER PERCH	2.50	17.7	0.22	1.13
BLUE CRAB	4.16	16.8	3.42	52.93
PINFISH	6.25	31.8	1.21	22.12
HARRIS' MUD CRAB	8.33	5.1	0.05	1.00
GULF PIPEFISH	42.50	48.5	0.08	8.29
NAKED GOBY	69.16	12.2	0.05	8.58
GRASS SHRIMP	207.08	0.0	0.00	72.63
BROWN SHRIMP	225.84	19.6	0.17	63.67

DENSITY OF ALL INDIVIDUALS 572.89

MEAN LENGTH OF ALL INDIVIDUALS 24.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.58

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABA

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 506

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.78	17.0	0.00	0.00
ATLANTIC NEEDLEFISH	1.54	27.5	0.06	0.00
HALFBEAK	2.32	6.7	0.00	0.00
GULF MENHADEN	11.31	20.0	0.27	0.00
ROUGH SILVERSIDE	40.57	15.1	0.11	0.00
NAKED GOBY	73.46	3.2	0.00	0.00
TIDEWATER SILVERSIDE	87.47	3.2	0.00	0.00
BAY ANCHOVY	163.85	7.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 381.30

MEAN LENGTH OF ALL INDIVIDUALS

12.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.05

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 745

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FEATHER BLENNY	1.19	0.0	0.00	0.00
ATLANTIC NEEDLEFISH	1.26	0.0	0.00	0.00
GULF PIPEFISH	1.26	0.0	0.00	0.00
GULF MENHADEN	2.32	0.0	0.00	0.00
NAKED GOBY	88.59	0.0	0.00	0.00
BAY ANCHOVY	185.56	0.0	0.00	0.00
TIDEWATER SILVERSIDE	236.00	0.0	0.00	0.00
ROUGH SILVERSIDE	324.03	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 840.21

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABC

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 980

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY EGG	2.18	0.0	0.00	0.00
TIDEWATER SILVERSIDE	42.11	0.0	0.00	0.00
NAKED GOBY	159.55	1.4	0.00	0.00
ROUGH SILVERSIDE	162.48	2.1	0.00	0.00
BAY ANCHOVY	728.90	3.2	0.01	0.00

DENSITY OF ALL INDIVIDUALS 1095.22

MEAN LENGTH OF ALL INDIVIDUALS

1.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABD

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 622

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	71.52	4.7	0.00	0.00
ROUGH SILVERSIDE	151.78	12.7	0.06	0.00
BAY ANCHOVY	173.29	10.3	0.01	0.00
BAY ANCHOVY EGG	238.78	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 635.37

MEAN LENGTH OF ALL INDIVIDUALS

6.9

MEAN WEIGHT OF ALL INDIVIDUALS

0.02

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 2 Jun 1987 STATION - SABC

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 980

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY EGG	2.18	0.0	0.00	0.00
TIDEWATER SILVERSIDE	42.11	0.0	0.00	0.00
NAKED GOBY	159.55	1.4	0.00	0.00
ROUGH SILVERSIDE	162.48	2.1	0.00	0.00
BAY ANCHOVY	728.90	3.2	0.01	0.00

DENSITY OF ALL INDIVIDUALS 1095.22

MEAN LENGTH OF ALL INDIVIDUALS

1.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Trawl

DATA

DATE - 13 Jul 1987 STATION - SABA

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 98

TOTAL WEIGHT OF ALL INDIVIDUALS 1128.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
COMMON CARP	0.33	76.0	16.67	16.67
GULF MENHADEN	1.33	33.0	0.63	2.72
WHITE SHRIMP	1.33	59.2	1.62	7.25
BAY ANCHOVY	1.67	41.5	1.02	5.21
THREADFIN SHAD	1.67	39.2	1.17	5.87
BLUE CATFISH	2.67	36.9	0.76	6.04
BLUE CRAB	5.00	94.3	51.91	820.59
ATLANTIC CROAKER	5.33	83.8	13.32	214.19
HARDHEAD CATFISH	13.33	41.5	1.28	50.17

DENSITY OF ALL INDIVIDUALS 32.67

MEAN LENGTH OF ALL INDIVIDUALS 56.1

MEAN WEIGHT OF ALL INDIVIDUALS 9.82

SAN ANTONIO BAY

Trawl

DATA

DATE - 13 Jul 1987 STATION - SABB

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 133

TOTAL WEIGHT OF ALL INDIVIDUALS 2221.69 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.67	62.5	7.16	14.33
HARDHEAD CATFISH	1.33	106.8	23.64	79.18
THREADFIN SHAD	3.00	36.8	1.02	9.08
BAY ANCHOVY	3.33	41.5	1.02	8.72
GULF MENHADEN	4.33	36.8	1.12	15.11
ATLANTIC CROAKER	5.00	75.6	10.60	160.67
BLUE CRAB	7.33	111.3	77.20	1834.73
WHITE SHRIMP	19.33	63.7	1.77	99.87

DENSITY OF ALL INDIVIDUALS 44.33

MEAN LENGTH OF ALL INDIVIDUALS 66.9

MEAN WEIGHT OF ALL INDIVIDUALS 15.44

SAN ANTONIO BAY

Trawl

DATA

DATE - 13 Jul 1987 STATION - SABC

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 347

TOTAL WEIGHT OF ALL INDIVIDUALS 2969.76 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GAFFTOPSAIL CATFISH	0.33	84.0	9.86	9.86
HARRIS' MUD CRAB	0.33	10.0	0.54	0.54
HARDHEAD CATFISH	1.00	96.7	24.90	51.92
GRASS SHRIMP	1.67	0.0	0.00	1.89
SPOT	1.67	67.7	8.35	43.10
SILVER PERCH	5.00	52.4	3.70	53.84
BLUE CRAB	6.00	119.9	93.26	1527.11
BAY ANCHOVY	14.00	42.2	1.23	51.36
ATLANTIC CROAKER	23.00	78.8	11.08	765.58
WHITE SHRIMP	23.00	64.5	1.92	132.78
BROWN SHRIMP	39.67	69.0	2.73	331.78

DENSITY OF ALL INDIVIDUALS 115.67

MEAN LENGTH OF ALL INDIVIDUALS 62.3

MEAN WEIGHT OF ALL INDIVIDUALS 14.33

SAN ANTONIO BAY

Trawl

DATA

DATE - 14 Jul 1987 STATION - SABD

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 484

TOTAL WEIGHT OF ALL INDIVIDUALS 1554.63 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.62
SOUTHERN FLOUNDER	0.33	69.0	4.76	4.76
SPOT	0.33	80.0	15.93	15.93
HARDHEAD CATFISH	1.33	46.0	1.82	7.53
BROWN SHRIMP	2.33	63.7	1.98	9.61
GAFFTOPSAIL CATFISH	4.33	78.0	8.06	99.81
HARRIS' MUD CRAB	4.67	6.1	0.07	0.82
BLUE CRAB	6.33	86.5	44.41	837.83
ATLANTIC CROAKER	7.67	67.6	8.66	199.91
SILVER PERCH	18.00	42.3	2.19	121.21
BAY ANCHOVY	54.67	37.1	0.79	129.57
WHITE SHRIMP	61.00	45.4	0.65	127.03

DENSITY OF ALL INDIVIDUALS 161.33

MEAN LENGTH OF ALL INDIVIDUALS 51.8

MEAN WEIGHT OF ALL INDIVIDUALS 7.44

SAN ANTONIO BAY

Seine

DATA

DATE - 14 Jul 1987 STATION - SABA

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 48

TOTAL WEIGHT OF ALL INDIVIDUALS 24.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.11	0.0	0.00	0.64
HARRIS' MUD CRAB	0.11	6.0	0.12	0.12
NAKED GOBY	0.11	16.0	0.10	0.10
SHEEPSHEAD MINNOW	0.11	20.0	0.27	0.27
SPOT	0.11	50.0	3.52	3.52
PINFISH	0.21	32.5	2.42	4.85
BROWN SHRIMP	0.64	42.7	0.60	3.57
TIDEWATER SILVERSIDE	1.59	32.1	0.55	7.51
BAY ANCHOVY	2.12	27.2	0.20	3.46

DENSITY OF ALL INDIVIDUALS 5.09

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.86

SAN ANTONIO BAY

Seine

DATA

DATE - 14 Jul 1987 STATION - SABB

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1416

TOTAL WEIGHT OF ALL INDIVIDUALS 482.24 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
RED DRUM	0.11	142.0	57.73	57.73
SHEEPSHEAD MINNOW	0.11	16.0	0.14	0.14
THREADFIN SHAD	0.11	31.0	0.52	0.52
WHITE SHRIMP	0.11	44.0	0.57	0.57
GULF PIPEFISH	0.22	80.5	0.29	0.57
BROWN SHRIMP	0.32	53.0	1.20	3.64
BLUE CRAB	0.42	34.7	6.26	53.22
SILVER PERCH	0.42	48.2	3.19	12.68
BAY ANCHOVY	0.54	31.2	0.42	2.06
NAKED GOBY	1.81	18.2	0.14	2.37
TIDEWATER SILVERSIDE	1.91	30.3	0.41	7.26
HARRIS' MUD CRAB	2.23	7.3	0.11	2.58
GRASS SHRIMP	142.34	0.0	0.00	338.90

DENSITY OF ALL INDIVIDUALS 150.64

MEAN LENGTH OF ALL INDIVIDUALS 41.3

MEAN WEIGHT OF ALL INDIVIDUALS 5.46

SAN ANTONIO BAY

Seine

DATA

DATE - 14 Jul 1987 STATION - SABC

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 121

TOTAL WEIGHT OF ALL INDIVIDUALS 130.07 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.11	67.0	0.19	0.19
NAKED GOBY	0.11	23.0	0.22	0.22
HARRIS' MUD CRAB	0.21	8.0	0.21	0.42
SILVER PERCH	0.32	58.0	4.75	14.20
WHITE MULLET	0.32	56.0	4.05	12.12
ROUGH SILVERSIDE	0.53	36.8	0.85	3.13
WHITE SHRIMP	0.75	48.5	0.79	5.33
STRIPED MULLET	0.85	66.8	8.47	78.21
GRASS SHRIMP	4.15	0.0	0.00	7.84
BAY ANCHOVY	5.53	24.0	0.15	8.41

DENSITY OF ALL INDIVIDUALS 12.87

MEAN LENGTH OF ALL INDIVIDUALS 38.8

MEAN WEIGHT OF ALL INDIVIDUALS 1.97

SAN ANTONIO BAY

Seine

DATA

DATE - 14 Jul 1987 STATION - SABD

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 415

TOTAL WEIGHT OF ALL INDIVIDUALS 442.12 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.21	5.0	0.08	0.16
SHEEPSHEAD MINNOW	0.21	12.0	0.08	0.16
SPOT	0.21	53.0	4.52	9.04
BLUE CRAB	0.85	68.1	30.31	274.30
BAY ANCHOVY	1.50	28.7	0.35	4.68
BROWN SHRIMP	4.79	53.1	1.19	50.68
NAKED GOBY	5.10	15.6	0.09	4.60
WHITE SHRIMP	6.60	45.0	0.64	43.58
GRASS SHRIMP	24.69	0.0	0.00	54.92

DENSITY OF ALL INDIVIDUALS 44.16

MEAN LENGTH OF ALL INDIVIDUALS 31.1

MEAN WEIGHT OF ALL INDIVIDUALS 4.14

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 14 Jul 1987 STATION - SABA

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.83	19.0	0.19	0.38

DENSITY OF ALL INDIVIDUALS 0.83

MEAN LENGTH OF ALL INDIVIDUALS 19.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.19

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 14 Jul 1987 STATION - SABB

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 49

TOTAL WEIGHT OF ALL INDIVIDUALS 7.70 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	36.0	2.55	2.55
GULF PIPEFISH	0.41	48.0	0.05	0.05
WHITE SHRIMP	0.41	38.0	0.34	0.34
GRASS SHRIMP	3.33	0.0	0.00	1.00
NAKED GOBY	5.42	14.9	0.10	1.19
HARRIS' MUD CRAB	10.42	5.4	0.08	2.57

DENSITY OF ALL INDIVIDUALS 20.42

MEAN LENGTH OF ALL INDIVIDUALS 23.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.52

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 14 Jul 1987 STATION - SABC

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 27

TOTAL WEIGHT OF ALL INDIVIDUALS 14.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SKILLET FISH	0.41	38.0	1.73	1.73
BAY ANCHOVY	0.83	19.0	0.07	0.13
GULF PIPEFISH	0.83	59.5	0.11	0.21
BROWN SHRIMP	1.24	60.0	1.95	5.84
NAKED GOBY	1.25	18.0	0.14	0.41
WHITE SHRIMP	2.08	43.3	0.61	3.19
GRASS SHRIMP	4.58	0.0	0.00	2.76

DENSITY OF ALL INDIVIDUALS 11.25

MEAN LENGTH OF ALL INDIVIDUALS 34.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.66

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 13 Jul 1987 STATION - SABD

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 99

TOTAL WEIGHT OF ALL INDIVIDUALS 93.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	78.3	36.10	54.36
CODE GOBY	0.41	17.0	0.13	0.13
GULF PIPEFISH	0.41	75.0	0.29	0.29
PINFISH	0.41	68.0	10.29	10.29
BAY ANCHOVY	0.83	27.0	0.24	0.47
HARRIS' MUD CRAB	0.83	4.0	0.02	0.04
WHITE SHRIMP	2.08	46.9	0.81	4.36
BROWN SHRIMP	7.92	46.2	0.83	16.50
NAKED GOBY	13.33	14.0	0.07	2.62
GRASS SHRIMP	14.58	0.0	0.00	4.21

DENSITY OF ALL INDIVIDUALS 41.25

MEAN LENGTH OF ALL INDIVIDUALS 37.6

MEAN WEIGHT OF ALL INDIVIDUALS 4.88

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 13 Jul 1987 STATION - SABA

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 85

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.37	8.0	0.00	0.00
NAKED GOBY	2.88	2.5	0.00	0.00
GULF MENHADEN	5.62	6.5	0.00	0.00
BAY ANCHOVY EGG	22.92	0.0	0.00	0.00
ROUGH SILVERSIDE	27.34	5.9	0.00	0.00
TIDEWATER SILVERSIDE	62.37	4.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 122.52

MEAN LENGTH OF ALL INDIVIDUALS

4.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 13 Jul 1987 STATION - SABB

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 84

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.37	7.0	0.00	0.00
ATLANTIC NEEDLEFISH	1.56	20.0	0.01	0.00
BAY ANCHOVY	4.50	13.0	0.05	0.00
ROUGH SILVERSIDE	37.73	6.5	0.02	0.00
TIDEWATER SILVERSIDE	79.35	4.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 124.51

MEAN LENGTH OF ALL INDIVIDUALS 10.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.02

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 13 Jul 1987 STATION - SABC

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 106

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.43	9.0	0.00	0.00
TIDEWATER SILVERSIDE	29.66	4.7	0.00	0.00
BAY ANCHOVY	31.67	7.2	0.00	0.00
NAKED GOBY	40.61	2.3	0.00	0.00
ROUGH SILVERSIDE	56.34	5.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 159.71

MEAN LENGTH OF ALL INDIVIDUALS 5.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 13 Jul 1987 STATION - SABD

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 14

TOTAL WEIGHT OF ALL INDIVIDUALS 0.14 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.34	9.0	0.00	0.00
NAKED GOBY	1.34	3.0	0.00	0.00
TIDEWATER SILVERSIDE	8.03	4.6	0.00	0.00
ROUGH SILVERSIDE	8.04	9.8	0.02	0.14

DENSITY OF ALL INDIVIDUALS 18.74

MEAN LENGTH OF ALL INDIVIDUALS 6.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.01

SAN ANTONIO BAY

Trawl

DATA

DATE - 1 Jul 1988 STATION - SABA

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 39

TOTAL WEIGHT OF ALL INDIVIDUALS 235.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	88.0	14.09	14.09
BLUE CRAB	0.33	75.0	25.31	25.31
GULF MENHADEN	0.33	38.0	1.20	1.20
WHITE SHRIMP	0.33	47.0	0.73	0.73
BAY ANCHOVY	0.67	43.5	1.12	2.24
PINK SHRIMP	3.33	87.1	5.66	54.40
BROWN SHRIMP	7.67	90.7	6.11	137.31

DENSITY OF ALL INDIVIDUALS 13.00

MEAN LENGTH OF ALL INDIVIDUALS 67.0

MEAN WEIGHT OF ALL INDIVIDUALS 7.74

SAN ANTONIO BAY

Trawl

DATA

DATE - 1 Jul 1988 STATION - SABB

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 32

TOTAL WEIGHT OF ALL INDIVIDUALS 734.76 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	16.0	0.04	0.04
STONE CRAB	0.33	14.0	1.05	1.42
ATLANTIC CROAKER	1.00	97.0	22.26	63.34
PINK SHRIMP	1.00	99.5	8.09	22.82
SPOT	1.67	65.7	8.14	45.51
BROWN SHRIMP	3.00	97.6	7.74	70.01
BLUE CRAB	3.33	96.8	56.74	531.62

DENSITY OF ALL INDIVIDUALS 10.67

MEAN LENGTH OF ALL INDIVIDUALS 69.5

MEAN WEIGHT OF ALL INDIVIDUALS 14.87

SAN ANTONIO BAY

Trawl

DATA

DATE - 1 Jul 1988 STATION - SABC

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 144

TOTAL WEIGHT OF ALL INDIVIDUALS 1025.49 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	92.0	14.92	14.92
GROOVED SHRIMP	0.33	25.0	0.16	0.16
HOGCHOKER	0.33	83.0	19.79	19.79
SAND SEATROUT	0.33	98.0	15.06	15.06
SPOT	0.33	62.0	6.69	6.69
STONE CRAB	0.33	5.0	0.04	0.04
BAY WHIFF	1.00	81.3	8.21	24.62
BLACKCHEEK TONGUEFISH	1.00	95.7	8.55	25.64
THUMBSTALL SQUID	1.33	22.0	0.97	5.01
ATLANTIC MIDSHIPMAN	4.00	40.0	0.99	12.80
LEAST PUFFER	4.33	28.1	1.51	20.42
PINK SHRIMP	4.33	86.2	6.50	100.18
BLUE CRAB	9.33	61.6	22.62	556.30
BAY ANCHOVY	10.33	42.4	0.98	29.91
BROWN SHRIMP	10.33	89.4	6.46	193.95

DENSITY OF ALL INDIVIDUALS 48.00

MEAN LENGTH OF ALL INDIVIDUALS 60.8

MEAN WEIGHT OF ALL INDIVIDUALS 7.56

SAN ANTONIO BAY

Trawl

DATA

DATE - 1 Jul 1988 STATION - SABD

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 91

TOTAL WEIGHT OF ALL INDIVIDUALS 876.17 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	78.0	6.22	6.22
SPECKLED WORM EEL	0.33	295.0	14.93	14.93
STRIPED ANCHOVY	0.33	42.0	0.91	0.91
THUMBSTALL SQUID	0.33	65.0	4.54	4.54
BLACKCHEEK TONGUEFISH	0.67	82.0	6.83	13.65
FRESHWATER SHRIMP	1.00	54.7	4.03	12.62
SPOT	2.00	70.7	9.78	51.61
BLUE CRAB	3.33	72.1	32.04	405.69
PINK SHRIMP	3.33	86.0	5.40	56.96
BAY ANCHOVY	5.00	45.0	1.18	17.53
PINFISH	5.00	64.4	9.92	133.53
BROWN SHRIMP	8.67	87.4	6.09	157.98

DENSITY OF ALL INDIVIDUALS 30.33

MEAN LENGTH OF ALL INDIVIDUALS 86.9

MEAN WEIGHT OF ALL INDIVIDUALS 8.49

SAN ANTONIO BAY

Seine

DATA

DATE - 1 Jul 1988 STATION - SABA

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 59

TOTAL WEIGHT OF ALL INDIVIDUALS 62.08 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	0.11	34.0	0.79	0.79
GULF PIPEFISH	0.11	48.0	0.04	0.04
SILVER PERCH	0.11	6.0	0.00	0.00
SPOT	0.11	60.0	5.74	5.74
STRIPED ANCHOVY	0.11	39.0	0.73	0.73
STRIPED MULLET	0.11	88.0	17.76	17.76
ROUGH SILVERSIDE	0.32	25.0	0.17	0.55
TIDEWATER SILVERSIDE	2.34	40.4	0.90	19.74
BAY ANCHOVY	2.97	35.2	0.62	16.73

DENSITY OF ALL INDIVIDUALS 6.27

MEAN LENGTH OF ALL INDIVIDUALS 41.7

MEAN WEIGHT OF ALL INDIVIDUALS 2.97

SAN ANTONIO BAY

Seine

DATA

DATE - 1 Jul 1988 STATION - SABB

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 833

TOTAL WEIGHT OF ALL INDIVIDUALS 178.83 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.11	26.0	0.18	0.18
SHEEPSHEAD MINNOW	0.11	27.0	0.89	0.89
PINFISH	0.22	42.5	2.55	5.10
RAINWATER KILLIFISH	0.32	19.0	0.15	0.45
STRIPED ANCHOVY	0.32	23.7	0.24	0.72
BLUE CRAB	0.53	16.1	0.67	5.80
GULF PIPEFISH	0.96	44.6	0.09	1.07
PINK SHRIMP	1.16	61.9	2.09	16.38
TIDEWATER SILVERSIDE	1.59	24.2	0.21	2.53
STONE CRAB	2.66	4.3	0.03	1.59
BROWN SHRIMP	3.18	54.4	1.83	51.33
SPOTTED SEATROUT	4.15	17.2	0.10	3.73
GROOVED SHRIMP	13.41	23.0	0.12	14.36
WHITE SHRIMP	29.68	25.3	0.15	49.47
NAKED GOBY	30.21	14.3	0.08	25.23

DENSITY OF ALL INDIVIDUALS 88.60

MEAN LENGTH OF ALL INDIVIDUALS 28.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.62

SAN ANTONIO BAY

Seine

DATA

DATE - 1 Jul 1988 STATION - SABC

TOTAL # SPECIES - 18

TOTAL # OF INDIVIDUALS - 144

TOTAL WEIGHT OF ALL INDIVIDUALS 121.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SILVER PERCH	0.11	11.0	0.04	0.04
SPOTFIN MOJARRA	0.11	13.0	0.03	0.03
WHITE SHRIMP	0.11	30.0	0.17	0.17
STRIPED ANCHOVY	0.21	26.5	0.45	0.90
LEAST PUFFER	0.22	72.0	17.47	34.94
PINK SHRIMP	0.32	59.7	2.12	6.35
GROOVED SHRIMP	0.32	29.3	0.21	0.62
RAINWATER KILLIFISH	0.32	18.3	0.13	0.45
NAKED GOBY	0.53	17.4	0.13	0.60
PINFISH	0.53	48.9	3.92	25.37
SPOTTED SEATROUT	0.53	13.9	0.05	0.26
TIDEWATER SILVERSIDE	0.64	49.2	1.84	10.79
ARROW SHRIMP	0.85	33.0	0.09	0.69
BROWN SHRIMP	0.96	55.3	1.76	13.99
ROUGH SILVERSIDE	1.06	33.9	0.49	4.66
BLUE CRAB	1.17	17.3	0.47	6.62
GULF PIPEFISH	1.91	66.7	0.23	3.93
BAY ANCHOVY	5.43	27.7	0.33	10.84

DENSITY OF ALL INDIVIDUALS 15.31

MEAN LENGTH OF ALL INDIVIDUALS 34.6

MEAN WEIGHT OF ALL INDIVIDUALS 1.66

SAN ANTONIO BAY

Seine

DATA

DATE - 1 Jul 1988 STATION - SABD

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 771

TOTAL WEIGHT OF ALL INDIVIDUALS 832.86 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.11	37.0	0.58	0.58
FRESHWATER SHRIMP	0.11	49.0	3.06	3.06
GULF TOADFISH	0.11	21.0	0.23	0.23
STRIPED ANCHOVY	0.11	35.0	0.50	0.50
ARROW SHRIMP	0.32	32.3	0.07	0.21
NAKED GOBY	0.32	22.5	0.25	0.73
BLUE CRAB	0.42	26.8	1.57	8.05
SPOTTED SEATROUT	0.96	22.6	0.21	1.87
PINK SHRIMP	2.45	49.5	1.19	33.46
SILVER PERCH	2.56	32.7	0.93	23.42
RAINWATER KILLIFISH	2.65	16.7	0.10	2.71
BROWN SHRIMP	7.56	47.5	0.97	63.44
GROOVED SHRIMP	8.09	27.3	0.17	10.97
GULF PIPEFISH	8.19	73.8	0.30	22.54
WHITE SHRIMP	13.41	41.5	0.55	62.39
PINFISH	15.32	45.3	3.47	515.28
TIDEWATER SILVERSIDE	19.37	32.4	0.52	83.42

DENSITY OF ALL INDIVIDUALS 82.02

MEAN LENGTH OF ALL INDIVIDUALS 36.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.86

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 1 Jul 1988 STATION - SABA

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 29

TOTAL WEIGHT OF ALL INDIVIDUALS 1.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.41	44.0	0.66	0.66
WHITE SHRIMP	0.83	23.0	0.14	0.28
NAKED GOBY	10.84	9.7	0.02	0.63

DENSITY OF ALL INDIVIDUALS 12.08

MEAN LENGTH OF ALL INDIVIDUALS 25.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.27

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 1 Jul 1988 STATION - SABB

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 418

TOTAL WEIGHT OF ALL INDIVIDUALS 35.99 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	16.0	0.04	0.04
BLUE CRAB	0.41	23.0	0.79	1.56
EURYPANOPEUS DEPRESSUS	0.41	5.0	0.04	0.05
XANTHID SP.	0.41	3.0	0.01	0.01
GULF PIPEFISH	0.83	29.0	0.01	0.03
SPOTTED SEATROUT	1.66	13.7	0.04	0.18
PINK SHRIMP	2.08	56.7	2.21	9.82
BROWN SHRIMP	2.50	58.9	2.08	10.69
STONE CRAB	7.08	5.4	0.07	1.17
WHITE SHRIMP	12.09	23.6	0.12	3.25
GROOVED SHRIMP	21.66	19.9	0.10	4.31
NAKED GOBY	124.59	9.2	0.02	4.88

DENSITY OF ALL INDIVIDUALS 174.17

MEAN LENGTH OF ALL INDIVIDUALS 21.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 1 Jul 1988 STATION - SABC

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 39

TOTAL WEIGHT OF ALL INDIVIDUALS 11.30 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LEAST PUFFER	0.41	47.0	4.30	4.30
SILVER PERCH	0.41	50.0	2.72	2.72
BLUE CRAB	0.83	20.0	0.60	1.34
SPOTTED SEATROUT	0.83	6.5	0.01	0.01
GROOVED SHRIMP	1.25	22.5	0.14	0.55
GULF PIPEFISH	2.08	77.1	0.37	1.93
NAKED GOBY	10.42	9.8	0.02	0.45

DENSITY OF ALL INDIVIDUALS 16.24

MEAN LENGTH OF ALL INDIVIDUALS 33.3

MEAN WEIGHT OF ALL INDIVIDUALS 1.17

SAN ANTONIO BAY

Benthic Sled

DATA

DATE - 1 Jul 1988 STATION - SABD

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 130

TOTAL WEIGHT OF ALL INDIVIDUALS 34.06 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CODE GOBY	0.41	7.0	0.01	0.01
SPOTTED SEATROUT	0.41	18.0	0.08	0.08
BLUE CRAB	0.83	19.5	0.81	1.62
PINK SHRIMP	1.25	38.0	0.51	1.40
RAINWATER KILLIFISH	1.25	17.5	0.13	0.31
ARROW SHRIMP	2.50	27.5	0.03	0.19
WHITE SHRIMP	2.50	42.7	0.59	3.54
BROWN SHRIMP	6.25	45.5	0.86	14.41
NAKED GOBY	9.16	16.9	0.13	2.63
GROOVED SHRIMP	13.34	25.2	0.15	3.32
GULF PIPEFISH	16.25	62.9	0.23	6.55

DENSITY OF ALL INDIVIDUALS 54.16

MEAN LENGTH OF ALL INDIVIDUALS 29.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.32

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 1 Jul 1988 STATION - SABA

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 8

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.51	0.0	0.00	0.00
BAY ANCHOVY EGG	1.55	0.0	0.00	0.00
CLUPIEFORM SP.	1.55	0.0	0.00	0.00
BLENNY SP.	1.62	0.0	0.00	0.00
SILVERSIDE SP.	6.36	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 12.60

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 1 Jul 1988 STATION - SABB

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 17

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ANCHOVY SP.	1.49	0.0	0.00	0.00
BAY ANCHOVY	1.49	0.0	0.00	0.00
BAY ANCHOVY EGG	22.24	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 25.22

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 1 Jul 1988 STATION - SABC

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 15581

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLUPIEID SP.	1.49	0.0	0.00	0.00
STRIPED BLENNY	1.52	0.0	0.00	0.00
NAKED GOBY	3.23	0.0	0.00	0.00
FEATHER BLENNY	4.72	0.0	0.00	0.00
SILVERSIDE SP.	7.50	0.0	0.00	0.00
ANCHOVY SP.	7.53	0.0	0.00	0.00
CLUPIEFORM SP.	24.11	0.0	0.00	0.00
HOGCHOKER EGG	35.91	0.0	0.00	0.00
BAY ANCHOVY EGG	24070.1	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 24156.1

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

SAN ANTONIO BAY

Ichthyoplankton DATA

DATE - 1 Jul 1988 STATION - SABD

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 857

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ANCHOVY SP.	1.54	0.0	0.00	0.00
FEATHER BLENNY	1.54	0.0	0.00	0.00
HOGCHOKER EGG	3.09	0.0	0.00	0.00
SOLE SP.	3.09	0.0	0.00	0.00
ROUGH SILVERSIDE	3.33	0.0	0.00	0.00
SILVERSIDE SP.	11.06	0.0	0.00	0.00
BAY ANCHOVY EGG	1382.08	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 1405.73

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB45

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 366

TOTAL WEIGHT OF ALL INDIVIDUALS 933.99 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	15.0	0.12	0.12
BLUE CATFISH	0.33	17.0	68.49	68.49
HOGCHOKER	0.33	29.0	0.76	0.76
HARRIS' MUD CRAB	0.67	10.0	0.40	0.80
LINED SOLE	0.67	29.0	1.13	2.26
BLUE CRAB	1.33	33.8	13.34	79.72
GROOVED SHRIMP	2.67	65.0	2.22	17.60
SAND SEATROUT	2.67	66.2	5.77	44.79
BAY ANCHOVY	3.33	34.5	0.53	3.26
GULF MENHADEN	3.33	34.5	0.69	7.06
ATLANTIC CROAKER	13.67	36.5	3.32	41.84
WHITE SHRIMP	92.67	69.5	2.44	667.29

DENSITY OF ALL INDIVIDUALS 122.00

MEAN LENGTH OF ALL INDIVIDUALS 36.7

MEAN WEIGHT OF ALL INDIVIDUALS 8.27

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 117

TOTAL WEIGHT OF ALL INDIVIDUALS 329.11 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TOUNGFISH	0.33	49.0	1.14	1.14
SHEEPSHEAD MINNOW	0.67	35.0	1.78	3.55
LINED SOLE	1.33	33.5	1.37	4.55
SOUTHERN FLOUNDER	1.33	101.2	18.60	74.38
GULF MENHADEN	2.33	51.7	2.75	19.23
GROOVED SHRIMP	4.67	55.2	1.26	18.29
ATLANTIC CROAKER	5.33	24.1	0.30	4.31
WHITE SHRIMP	7.67	50.7	1.84	45.16
BLUE CRAB	15.33	24.7	3.62	158.50

DENSITY OF ALL INDIVIDUALS 39.00

MEAN LENGTH OF ALL INDIVIDUALS

47.2

MEAN WEIGHT OF ALL INDIVIDUALS

3.63

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 173

TOTAL WEIGHT OF ALL INDIVIDUALS 599.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	21.0	0.38	0.38
GULF KILLIFISH	0.33	65.0	7.32	7.32
SOUTHERN FLOUNDER	0.33	97.0	15.79	15.79
BLACKCHEEK TOUNGFISH	0.67	57.0	2.29	4.57
SHEEPSHEAD MINNOW	0.67	30.0	1.38	2.77
SPOT	1.00	80.0	14.91	44.74
GROOVED SHRIMP	5.00	35.3	0.37	6.56
WHITE SHRIMP	13.33	56.2	1.60	64.02
BLUE CRAB	16.33	36.9	13.24	432.45
ATLANTIC CROAKER	19.67	26.3	0.34	20.44

DENSITY OF ALL INDIVIDUALS 57.67

MEAN LENGTH OF ALL INDIVIDUALS 50.5

MEAN WEIGHT OF ALL INDIVIDUALS 5.76

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 248

TOTAL WEIGHT OF ALL INDIVIDUALS 1434.54 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.33	11.0	25.55	25.55
LINED SOLE	0.67	23.5	0.47	0.93
SPOT	0.67	68.5	7.03	14.05
BIGHEAD SEAROBIN	1.00	18.7	0.24	0.72
BAY ANCHOVY	3.67	37.8	0.59	6.55
BLUE CRAB	4.33	39.8	86.73	1213.12
GROOVED SHRIMP	6.67	44.4	0.77	14.97
ATLANTIC CROAKER	10.67	27.0	0.37	11.82
WHITE SHRIMP	14.67	44.2	0.85	36.16
GULF MENHADEN	40.00	35.4	0.90	110.67

DENSITY OF ALL INDIVIDUALS 82.67

MEAN LENGTH OF ALL INDIVIDUALS 35.0

MEAN WEIGHT OF ALL INDIVIDUALS 12.35

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB65

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 476

TOTAL WEIGHT OF ALL INDIVIDUALS 1475.70 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LEAST PUFFER	0.33	44.0	3.83	3.83
XANTHID SP.	0.33	8.0	0.16	0.16
SOUTHERN FLOUNDER	0.67	13.0	42.91	85.81
GROOVED SHRIMP	1.00	60.2	1.67	4.90
LINED SOLE	1.00	28.5	0.89	3.16
SPOT	1.00	85.3	17.24	51.72
BIGHEAD SEAROBIN	2.00	20.0	0.34	2.08
SAND SEATROUT	2.67	71.1	6.86	55.15
GULF MENHADEN	3.33	57.5	6.98	58.74
BLUE CRAB	5.00	22.8	8.88	181.72
BAY ANCHOVY	10.67	40.6	0.94	32.83
ATLANTIC CROAKER	54.67	29.6	0.78	156.47
WHITE SHRIMP	76.00	82.2	3.89	839.13

DENSITY OF ALL INDIVIDUALS 158.67

MEAN LENGTH OF ALL INDIVIDUALS

43.3

MEAN WEIGHT OF ALL INDIVIDUALS

7.34

LAVACA BAY

Trawl

DATA

DATE - 27 Nov 1984 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 102

TOTAL WEIGHT OF ALL INDIVIDUALS 340.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SAND SEATROUT	0.33	51.0	2.20	2.20
SOUTHERN FLOUNDER	0.33	87.0	12.13	12.13
SPOTFIN MOJARRA	0.33	54.0	4.13	4.13
BAY ANCHOVY	1.33	41.0	0.89	3.67
SPOT	1.33	78.5	13.79	55.17
BLUE CRAB	2.33	23.6	18.85	186.45
BIGHEAD SEAROBIN	2.67	23.9	0.62	4.76
ATLANTIC CROAKER	6.33	25.8	0.36	6.09
WHITE SHRIMP	7.33	54.9	1.81	42.51
GROOVED SHRIMP	11.67	44.3	0.69	23.60

DENSITY OF ALL INDIVIDUALS 34.00

MEAN LENGTH OF ALL INDIVIDUALS 48.4

MEAN WEIGHT OF ALL INDIVIDUALS 5.55

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 358

TOTAL WEIGHT OF ALL INDIVIDUALS 85.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DIAMOND KILLIFISH	0.11	23.0	0.45	0.45
SAILFIN MOLLY	0.11	25.0	0.49	0.49
BLUE CRAB	0.32	10.3	0.12	0.35
NAKED GOBY	0.75	20.4	0.23	1.59
BROWN SHRIMP	0.85	28.4	0.18	1.40
SHEEPSHEAD MINNOW	1.17	24.6	0.68	7.52
GULF MENHADEN	1.49	19.9	0.06	0.85
GULF KILLIFISH	1.81	40.9	2.43	41.32
TIDEWATER SILVERSIDE	2.98	23.1	0.15	4.23
BAY ANCHOVY	9.47	23.3	0.12	10.87
ATLANTIC CROAKER	19.05	17.8	0.09	15.93

DENSITY OF ALL INDIVIDUALS 38.09

MEAN LENGTH OF ALL INDIVIDUALS 23.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.45

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 80

TOTAL WEIGHT OF ALL INDIVIDUALS 98.79 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.11	24.0	0.14	0.14
BROWN SHRIMP	0.11	30.0	0.17	0.17
NAKED GOBY	0.11	15.0	0.07	0.07
STRIPED MULLET	0.11	21.0	0.15	0.15
ATLANTIC CROAKER	0.22	17.5	0.12	0.23
SHEEPSHEAD MINNOW	0.42	20.5	0.34	1.34
GULF MENHADEN	1.70	21.1	0.11	1.82
GULF KILLIFISH	2.02	52.0	4.74	90.11
TIDEWATER SILVERSIDE	3.72	21.9	0.14	4.76

DENSITY OF ALL INDIVIDUALS 8.50

MEAN LENGTH OF ALL INDIVIDUALS 24.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.66

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB613

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 319

TOTAL WEIGHT OF ALL INDIVIDUALS 92.46 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.11	12.0	0.03	0.03
WHITE SHRIMP	0.11	43.0	0.45	0.45
GULF KILLIFISH	0.42	34.7	1.33	5.32
SHEEPSHEAD MINNOW	2.23	20.8	0.37	7.83
BAY ANCHOVY	2.44	26.4	0.23	5.30
TIDEWATER SILVERSIDE	7.02	37.9	0.62	41.22
ATLANTIC CROAKER	10.64	17.0	0.09	9.33
GULF MENHADEN	10.96	24.3	0.22	22.98

DENSITY OF ALL INDIVIDUALS 33.93

MEAN LENGTH OF ALL INDIVIDUALS 27.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.42

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 454

TOTAL WEIGHT OF ALL INDIVIDUALS 138.41 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TOUNGFISH	0.11	38.0	0.61	0.61
DIAMOND KILLIFISH	0.11	22.0	0.32	0.32
NAKED GOBY	0.11	20.0	0.18	0.18
GULF KILLIFISH	1.49	41.9	2.55	35.76
BAY ANCHOVY	2.34	21.7	0.09	1.97
GULF MENHADEN	3.19	21.3	0.08	2.48
BLUE CRAB	6.07	8.1	0.08	4.71
BROWN SHRIMP	6.07	26.5	0.14	7.74
TIDEWATER SILVERSIDE	14.04	22.2	0.51	67.38
ATLANTIC CROAKER	14.79	18.8	0.12	17.26

DENSITY OF ALL INDIVIDUALS 48.29

MEAN LENGTH OF ALL INDIVIDUALS 24.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.47

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 566

TOTAL WEIGHT OF ALL INDIVIDUALS 340.87 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.32	68.7	45.04	135.12
ATLANTIC CROAKER	0.95	15.8	0.07	0.67
BROWN SHRIMP	1.38	32.7	0.25	3.21
GULF KILLIFISH	1.70	55.2	4.30	68.83
SHEEPSHEAD MINNOW	4.25	27.7	0.89	35.60
TIDEWATER SILVERSIDE	11.49	37.2	0.58	62.86
BAY ANCHOVY	19.47	22.2	0.11	19.33
GULF MENHADEN	20.64	21.6	0.08	15.25

DENSITY OF ALL INDIVIDUALS 60.22

MEAN LENGTH OF ALL INDIVIDUALS 35.1

MEAN WEIGHT OF ALL INDIVIDUALS 6.41

LAVACA BAY

Seine

DATA

DATE - 27 Nov 1984 STATION - LAB85

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 32

TOTAL WEIGHT OF ALL INDIVIDUALS 49.93 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	20.0	0.14	0.14
BLUE CRAB	0.11	13.0	0.12	0.12
RED DRUM	0.11	21.0	0.18	0.18
GULF KILLIFISH	0.64	45.3	2.67	16.04
SHEEPSHEAD MINNOW	2.44	31.8	1.45	33.45

DENSITY OF ALL INDIVIDUALS 3.40

MEAN LENGTH OF ALL INDIVIDUALS 26.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.91

LAVACA BAY

Benthic Sled

DATA

DATE - 27 Nov 1984 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 155

TOTAL WEIGHT OF ALL INDIVIDUALS 47.65 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	0.41	24.0	0.49	0.49
SPOT	0.41	10.0	0.01	0.01
XANTHID SP.	0.83	5.0	0.08	0.16
GULF MENHADEN	1.66	19.8	0.07	0.28
WHITE SHRIMP	2.08	30.0	0.26	1.49
GULF PIPEFISH	2.08	71.3	0.20	1.04
GROOVED SHRIMP	3.33	15.6	0.02	0.17
NAKED GOBY	6.25	18.1	0.15	2.39
BAY ANCHOVY	10.00	17.8	0.05	1.11
BLUE CRAB	11.66	14.3	1.01	37.43
ATLANTIC CROAKER	25.83	13.4	0.05	3.08

DENSITY OF ALL INDIVIDUALS 64.57

MEAN LENGTH OF ALL INDIVIDUALS 21.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.22

LAVACA BAY Benthic Sled DATA

DATE - 27 Nov 1984 STATION - LAB603

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 30

TOTAL WEIGHT OF ALL INDIVIDUALS 56.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	85.0	44.03	44.03
GROOVED SHRIMP	0.41	12.0	0.01	0.01
GULF KILLIFISH	0.41	70.0	9.78	9.78
GULF PIPEFISH	0.41	54.0	0.07	0.07
SPOT	0.41	12.0	0.03	0.03
ATLANTIC CROAKER	5.00	15.5	0.07	0.87
SHEEPSHEAD MINNOW	5.42	16.0	0.16	2.16

DENSITY OF ALL INDIVIDUALS 12.50

MEAN LENGTH OF ALL INDIVIDUALS 37.8

MEAN WEIGHT OF ALL INDIVIDUALS 7.74

LAVACA BAY

Benthic Sled

DATA

DATE - 27 Nov 1984 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 133

TOTAL WEIGHT OF ALL INDIVIDUALS 9.50 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOT	0.41	12.0	0.02	0.02
WHITE SHRIMP	0.83	42.0	0.52	1.03
SHEEPSHEAD MINNOW	0.83	22.5	0.35	0.69
NAKED GOBY	1.25	13.3	0.05	0.16
PINFISH	1.25	12.5	0.03	0.08
HARRIS' MUD CRAB	1.66	6.2	0.06	0.25
BLUE CRAB	3.75	9.8	0.08	0.75
GROOVED SHRIMP	7.08	24.2	0.20	3.78
ATLANTIC CROAKER	38.33	12.4	0.03	2.74

DENSITY OF ALL INDIVIDUALS 55.41

MEAN LENGTH OF ALL INDIVIDUALS 17.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

LAVACA BAY

Benthic Sled

DATA

DATE - 27 Nov 1984 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 70

TOTAL WEIGHT OF ALL INDIVIDUALS 8.29 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.41	31.0	0.65	0.65
TIDEWATER SILVERSIDE	0.41	20.0	0.09	0.09
NAKED GOBY	0.83	16.0	0.10	0.20
SHEEPSHEAD MINNOW	2.50	21.0	0.42	2.31
ATLANTIC CROAKER	3.33	13.4	0.05	0.40
GROOVED SHRIMP	8.75	22.8	0.10	3.22
BLUE CRAB	12.92	7.0	0.05	1.42

DENSITY OF ALL INDIVIDUALS 29.17

MEAN LENGTH OF ALL INDIVIDUALS

18.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.21

LAVACA BAY Benthic Sled DATA

DATE - 27 Nov 1984 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 219

TOTAL WEIGHT OF ALL INDIVIDUALS 83.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE SHRIMP	0.41	45.0	0.54	0.54
NAKED GOBY	1.66	16.8	0.13	0.37
BLUE CRAB	2.08	17.3	0.20	0.89
GULF KILLIFISH	3.33	31.6	0.85	6.82
DIAMOND KILLIFISH	6.66	17.6	0.20	3.16
GROOVED SHRIMP	9.58	21.9	0.09	1.10
ATLANTIC CROAKER	10.83	12.0	0.04	0.70
SHEEPSHEAD MINNOW	56.67	19.3	0.33	69.73

DENSITY OF ALL INDIVIDUALS 91.25

MEAN LENGTH OF ALL INDIVIDUALS 22.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.30

LAVACA BAY

Benthic Sled

DATA

DATE - 27 Nov 1984 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 64

TOTAL WEIGHT OF ALL INDIVIDUALS 25.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.41	52.0	3.47	3.47
RED DRUM	0.41	24.0	0.22	0.22
SPECKLED WORM EEL	0.41	11.0	0.72	0.72
WHITE SHRIMP	0.41	21.0	0.05	0.05
GROOVED SHRIMP	0.83	20.0	0.04	0.09
PINFISH	1.25	12.7	0.03	0.10
NAKED GOBY	2.08	15.3	0.08	0.48
SHEEPSHEAD MINNOW	4.58	32.8	1.61	18.53
ATLANTIC CROAKER	6.66	12.1	0.04	0.90
BLUE CRAB	9.59	7.6	0.06	1.15

DENSITY OF ALL INDIVIDUALS 26.66

MEAN LENGTH OF ALL INDIVIDUALS 20.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.63

LAVACA BAY Ichthyoplankton DATA

DATE - 27 Nov 1984 STATION - LAB45

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.83	21.0	0.00	0.00
BAY ANCHOVY	5.05	19.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 6.88

MEAN LENGTH OF ALL INDIVIDUALS 20.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 27 Nov 1984 STATION - LAB603

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.86	22.0	0.00	0.00
BAY ANCHOVY	5.45	21.3	0.00	0.00

DENSITY OF ALL INDIVIDUALS 7.31

MEAN LENGTH OF ALL INDIVIDUALS 21.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 27 Nov 1984 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 41

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	1.78	20.0	0.00	0.00
SHEEPSHEAD MINNOW	3.00	31.0	0.00	0.00
GULF MENHADEN	4.78	21.0	0.00	0.00
ATLANTIC CROAKER	18.52	17.0	0.00	0.00
BAY ANCHOVY	60.67	21.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 88.74

MEAN LENGTH OF ALL INDIVIDUALS 22.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 27 Nov 1984 STATION - LAB623

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 97

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	1.44	11.0	0.00	0.00
GULF MENHADEN	19.92	20.7	0.00	0.00
BAY ANCHOVY	128.43	21.6	0.00	0.00

DENSITY OF ALL INDIVIDUALS 149.80

MEAN LENGTH OF ALL INDIVIDUALS 17.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 27 Nov 1984 STATION - LAB65

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	3.50	19.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 3.50

MEAN LENGTH OF ALL INDIVIDUALS 19.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Jan 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 395

TOTAL WEIGHT OF ALL INDIVIDUALS 4158.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	16.0	0.29	0.29
HOGCHOKER	0.33	51.0	5.88	5.88
TIDEWATER SILVERSIDE	0.33	40.0	0.66	0.66
FRESHWATER SHRIMP	1.00	0.0	0.00	2.73
BLUE CATFISH	1.33	196.7	146.76	672.31
GRASS SHRIMP	1.33	0.0	0.00	0.72
GULF MENHADEN	1.67	24.2	0.17	0.96
BAY ANCHOVY	2.00	27.7	0.23	1.35
GIZZARD SHAD	2.33	81.3	9.57	57.21
STRIPED MULLET	18.00	135.6	61.65	3341.09
ATLANTIC CROAKER	103.00	22.0	0.25	75.46

DENSITY OF ALL INDIVIDUALS 131.67

MEAN LENGTH OF ALL INDIVIDUALS 54.0

MEAN WEIGHT OF ALL INDIVIDUALS 20.50

LAVACA BAY

Trawl

DATA

DATE - 22 Jan 1985 STATION - LAB603

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 176

TOTAL WEIGHT OF ALL INDIVIDUALS 295.19 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	23.0	0.11	0.11
DIAMOND KILLIFISH	0.33	22.0	0.34	0.34
STRIPED MULLET	0.33	26.0	0.29	0.29
CLOWN GOBY	0.67	27.5	0.27	0.53
THREADFIN SHAD	0.67	39.0	0.80	1.60
TIDEWATER SILVERSIDE	0.67	45.5	1.08	2.17
BLUE CRAB	2.33	54.8	36.23	111.05
GULF MENHADEN	4.00	27.8	0.33	3.63
GULF KILLIFISH	9.33	51.5	3.38	90.25
ATLANTIC CROAKER	10.00	26.1	0.39	12.38
SHEEPSHEAD MINNOW	12.00	33.4	1.58	55.01
GRASS SHRIMP	18.00	0.0	0.00	17.83

DENSITY OF ALL INDIVIDUALS 58.67

MEAN LENGTH OF ALL INDIVIDUALS 31.4

MEAN WEIGHT OF ALL INDIVIDUALS 3.73

LAVACA BAY

Trawl

DATA

DATE - 23 Jan 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 60

TOTAL WEIGHT OF ALL INDIVIDUALS 113.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TOUNGFISH	0.33	70.0	4.14	4.14
TIDEWATER SILVERSIDE	0.33	58.0	2.15	2.15
GULF KILLIFISH	0.67	46.0	2.82	5.64
GULF MENHADEN	1.00	26.5	0.27	0.72
SOUTHERN FLOUNDER	1.00	89.7	24.15	72.44
ATLANTIC CROAKER	1.67	16.4	0.08	0.42
BLUE CRAB	1.67	17.3	0.51	3.52
SHEEPSHEAD MINNOW	4.67	28.6	1.20	16.93
GRASS SHRIMP	8.67	0.0	0.00	7.78

DENSITY OF ALL INDIVIDUALS 20.00

MEAN LENGTH OF ALL INDIVIDUALS 39.2

MEAN WEIGHT OF ALL INDIVIDUALS 3.92

LAVACA BAY

Trawl

DATA

DATE - 22 Jan 1985 STATION - LAB623

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 368

TOTAL WEIGHT OF ALL INDIVIDUALS 209.40 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	15.0	0.16	0.16
NAKED GOBY	0.33	22.0	0.27	0.27
HARRIS' MUD CRAB	1.67	8.3	0.23	0.84
BAY ANCHOVY	2.33	25.6	0.48	5.36
GULF KILLIFISH	4.67	45.2	2.95	47.73
ATLANTIC CROAKER	12.33	18.9	0.14	4.94
SHEEPSHEAD MINNOW	23.67	31.4	1.32	98.96
GRASS SHRIMP	77.33	0.0	0.00	51.14

DENSITY OF ALL INDIVIDUALS 122.67

MEAN LENGTH OF ALL INDIVIDUALS

20.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.69

LAVACA BAY

Trawl

DATA

DATE - 22 Jan 1985 STATION - LAB65

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 234

TOTAL WEIGHT OF ALL INDIVIDUALS 1143.67 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.33	68.0	8.21	8.21
SPOT	0.33	83.0	14.17	14.17
BLUE CRAB	0.67	15.5	0.28	0.56
GULF PIPEFISH	0.67	90.0	0.35	0.71
SOUTHERN FLOUNDER	0.67	70.5	14.97	29.95
SHEEPSHEAD	1.33	149.8	138.00	572.92
TIDEWATER SILVERSIDE	2.00	33.7	0.47	3.13
SHEEPSHEAD MINNOW	2.67	30.4	1.38	12.49
STRIPED MULLET	2.67	88.7	25.27	186.61
THREADFIN SHAD	2.67	49.4	1.92	15.36
BAY ANCHOVY	3.33	30.0	0.32	3.54
GIZZARD SHAD	3.67	85.5	16.68	115.27
ATLANTIC CROAKER	15.00	34.0	3.33	141.10
GRASS SHRIMP	16.67	0.0	0.00	16.69
GULF MENHADEN	25.33	26.1	0.28	22.96

DENSITY OF ALL INDIVIDUALS 78.00

MEAN LENGTH OF ALL INDIVIDUALS

57.0

MEAN WEIGHT OF ALL INDIVIDUALS

15.04

LAVACA BAY

Trawl

DATA

DATE - 23 Jan 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 117

TOTAL WEIGHT OF ALL INDIVIDUALS 75.92 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED MULLET	0.33	102.0	22.54	22.54
BLUE CRAB	1.00	18.3	0.52	1.56
SHEEPSHEAD MINNOW	1.33	35.0	1.68	7.62
TIDEWATER SILVERSIDE	3.33	54.4	1.98	20.53
ATLANTIC CROAKER	3.67	29.1	0.55	5.00
GULF MENHADEN	8.00	28.0	0.32	5.40
GRASS SHRIMP	10.33	0.0	0.00	8.72
BAY ANCHOVY	11.00	23.6	0.14	4.55

DENSITY OF ALL INDIVIDUALS 39.00

MEAN LENGTH OF ALL INDIVIDUALS 36.3

MEAN WEIGHT OF ALL INDIVIDUALS 3.47

LAVACA BAY

Seine

DATA

DATE - 24 Jan 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1709

TOTAL WEIGHT OF ALL INDIVIDUALS 347.96 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	6.0	0.05	0.05
SAILFIN MOLLY	0.11	35.0	0.07	0.07
ATLANTIC CROAKER	0.21	25.0	0.28	0.55
RAINWATER KILLIFISH	0.22	21.5	0.22	0.44
BAY ANCHOVY	0.32	19.8	0.64	1.33
GULF KILLIFISH	0.53	35.5	1.14	7.35
SHEEPSHEAD MINNOW	5.21	28.4	0.99	47.14
TIDEWATER SILVERSIDE	14.90	35.7	0.50	69.54
GRASS SHRIMP	29.78	0.0	0.00	43.39
STRIPED MULLET	39.15	24.2	0.54	107.09
GULF MENHADEN	91.28	21.7	0.08	71.01

DENSITY OF ALL INDIVIDUALS 181.81

MEAN LENGTH OF ALL INDIVIDUALS 23.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.41

LAVACA BAY

Seine

DATA

DATE - 24 Jan 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 1028

TOTAL WEIGHT OF ALL INDIVIDUALS 436.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.22	22.5	0.12	0.24
GULF KILLIFISH	0.32	41.0	1.59	4.50
DIAMOND KILLIFISH	0.43	19.5	0.25	1.00
GRASS SHRIMP	1.91	0.0	0.00	3.02
TIDEWATER SILVERSIDE	5.21	23.3	0.14	6.80
SHEEPSHEAD MINNOW	9.90	28.3	0.95	89.60
GULF MENHADEN	19.47	22.3	0.08	16.08
STRIPED MULLET	71.92	24.8	0.75	314.76

DENSITY OF ALL INDIVIDUALS 109.38

MEAN LENGTH OF ALL INDIVIDUALS 22.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.48

LAVACA BAY

Seine

DATA

DATE - 23 Jan 1985 STATION - LAB613

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 424

TOTAL WEIGHT OF ALL INDIVIDUALS 131.08 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	14.0	0.19	0.19
DIAMOND KILLIFISH	0.85	20.9	0.32	2.57
TIDEWATER SILVERSIDE	1.38	31.1	0.35	4.22
GULF KILLIFISH	1.81	35.0	1.05	15.64
SHEEPSHEAD MINNOW	4.36	26.0	0.88	35.67
STRIPED MULLET	15.96	23.3	0.26	38.98
GRASS SHRIMP	20.63	0.0	0.00	33.81

DENSITY OF ALL INDIVIDUALS 45.10

MEAN LENGTH OF ALL INDIVIDUALS

21.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.44

LAVACA BAY

Seine

DATA

DATE - 23 Jan 1985 STATION - LAB623

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 619

TOTAL WEIGHT OF ALL INDIVIDUALS 168.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	9.0	0.01	0.01
SPOT	0.11	14.0	0.03	0.03
GULF KILLIFISH	0.43	34.5	1.07	4.30
GULF MENHADEN	0.54	20.6	0.08	0.36
DIAMOND KILLIFISH	0.85	20.3	0.29	2.71
TIDEWATER SILVERSIDE	6.28	31.8	0.35	20.13
SHEEPSHEAD MINNOW	7.55	24.2	0.61	42.93
GRASS SHRIMP	9.58	0.0	0.00	10.44
STRIPED MULLET	40.42	23.2	0.23	87.22

DENSITY OF ALL INDIVIDUALS 65.86

MEAN LENGTH OF ALL INDIVIDUALS 19.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.30

LAVACA BAY

Seine

DATA

DATE - 24 Jan 1985 STATION - LAB65

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 165

TOTAL WEIGHT OF ALL INDIVIDUALS 42.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	12.0	0.03	0.03
SPOT	0.11	14.0	0.04	0.04
SHEEPSHEAD MINNOW	0.42	25.0	0.63	2.53
STRIPED MULLET	3.72	23.6	0.25	8.64
TIDEWATER SILVERSIDE	4.15	35.7	0.53	19.60
GULF MENHADEN	4.25	22.6	0.10	3.83
GRASS SHRIMP	4.79	0.0	0.00	7.34

DENSITY OF ALL INDIVIDUALS 17.55

MEAN LENGTH OF ALL INDIVIDUALS 19.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.22

LAVACA BAY

Seine

DATA

DATE - 23 Jan 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 540

TOTAL WEIGHT OF ALL INDIVIDUALS 182.19 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DIAMOND KILLIFISH	0.11	17.0	0.12	0.12
GULF KILLIFISH	0.11	30.0	0.53	0.53
GULF MENHADEN	0.22	25.5	0.20	0.40
TIDEWATER SILVERSIDE	0.54	35.2	0.52	2.40
SHEEPSHEAD MINNOW	7.45	29.3	1.04	75.92
GRASS SHRIMP	17.98	0.0	0.00	28.43
STRIPED MULLET	31.06	23.6	0.25	74.39

DENSITY OF ALL INDIVIDUALS 57.45

MEAN LENGTH OF ALL INDIVIDUALS 22.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.38

LAVACA BAY Benthic Sled DATA

DATE - 24 Jan 1985 STATION - LAB45

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 363

TOTAL WEIGHT OF ALL INDIVIDUALS 98.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	12.0	0.13	0.13
LEPOMIS SP.	0.41	20.0	0.21	0.21
PINFISH	0.41	20.0	0.19	0.19
BAY ANCHOVY	0.83	21.5	0.08	0.15
BAYOU KILLIFISH	0.83	34.5	1.07	2.14
RAINWATER KILLIFISH	0.83	28.0	0.43	0.87
GULF KILLIFISH	2.08	37.6	1.31	6.54
SPOT	3.33	11.0	0.01	0.12
ATLANTIC CROAKER	10.41	21.8	0.21	5.23
TIDEWATER SILVERSIDE	14.16	37.9	0.59	19.46
SHEEPSHEAD MINNOW	22.92	25.6	0.67	37.24
GULF MENHADEN	28.33	22.0	0.06	3.59
GRASS SHRIMP	66.25	0.0	0.00	22.14

DENSITY OF ALL INDIVIDUALS 151.25

MEAN LENGTH OF ALL INDIVIDUALS 22.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.38

LAVACA BAY

Benthic Sled

DATA

DATE - 24 Jan 1985 STATION - LAB603

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 68

TOTAL WEIGHT OF ALL INDIVIDUALS 56.51 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.41	40.0	1.22	1.22
STRIPED MULLET	0.41	24.0	0.27	0.27
TIDEWATER SILVERSIDE	0.41	21.0	0.09	0.09
BAY ANCHOVY	1.66	22.0	0.10	0.40
ATLANTIC CROAKER	2.50	16.4	0.08	0.52
GULF MENHADEN	5.00	22.4	0.08	0.88
SHEEPSHEAD MINNOW	17.92	30.4	1.23	53.13

DENSITY OF ALL INDIVIDUALS 28.33

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.44

LAVACA BAY Benthic Sled DATA

DATE - 23 Jan 1985 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 92

TOTAL WEIGHT OF ALL INDIVIDUALS 14.64 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	24.0	0.23	0.23
GULF KILLIFISH	0.41	26.0	0.37	0.37
SHEEPSHEAD MINNOW	1.66	24.8	0.65	2.59
SPOT	3.75	12.2	0.03	0.25
GRASS SHRIMP	32.09	0.0	0.00	11.20

DENSITY OF ALL INDIVIDUALS 38.33

MEAN LENGTH OF ALL INDIVIDUALS 17.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.26

LAVACA BAY

Benthic Sled

DATA

DATE - 23 Jan 1985 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 169

TOTAL WEIGHT OF ALL INDIVIDUALS 22.84 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	5.0	0.02	0.02
GULF KILLIFISH	0.83	26.0	0.35	0.71
STRIPED MULLET	1.25	25.0	0.30	0.89
ATLANTIC CROAKER	2.08	11.3	0.02	0.10
SHEEPSHEAD MINNOW	11.25	21.3	0.45	11.99
SPOT	12.50	11.6	0.02	0.61
GRASS SHRIMP	42.09	0.0	0.00	8.52

DENSITY OF ALL INDIVIDUALS 70.41

MEAN LENGTH OF ALL INDIVIDUALS 14.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

LAVACA BAY

Benthic Sled

DATA

DATE - 24 Jan 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 441

TOTAL WEIGHT OF ALL INDIVIDUALS 103.90 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.83	36.5	1.16	2.32
SPOT	0.83	11.0	0.02	0.04
GULF MENHADEN	5.41	21.7	0.07	0.89
TIDEWATER SILVERSIDE	7.08	37.5	0.64	8.36
SHEEPSHEAD MINNOW	12.09	27.8	1.04	30.22
GRASS SHRIMP	157.50	0.0	0.00	62.07

DENSITY OF ALL INDIVIDUALS 183.75

MEAN LENGTH OF ALL INDIVIDUALS 22.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.49

LAVACA BAY Benthic Sled DATA

DATE - 22 Jan 1985 STATION - LAB85

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 70

TOTAL WEIGHT OF ALL INDIVIDUALS 13.35 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	2.08	25.2	0.68	3.38
GRASS SHRIMP	27.08	0.0	0.00	9.97

DENSITY OF ALL INDIVIDUALS 29.17

MEAN LENGTH OF ALL INDIVIDUALS 12.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.34

LAVACA BAY

Ichthyoplankton DATA

DATE - 22 Jan 1985 STATION - LAB45

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 212

TOTAL WEIGHT OF ALL INDIVIDUALS 37.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED MULLET	3.29	21.5	0.00	0.33
TIDEWATER SILVERSIDE	46.46	35.6	0.28	16.25
GULF MENHADEN	314.40	22.5	0.05	20.52

DENSITY OF ALL INDIVIDUALS 364.15

MEAN LENGTH OF ALL INDIVIDUALS 26.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.11

LAVACA BAY

Ichthyoplankton DATA

DATE - 22 Jan 1985 STATION - LAB603

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 71

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	2.08	29.0	0.92	0.00
ATLANTIC CROAKER	4.22	15.0	0.00	0.00
BAY ANCHOVY	6.33	22.0	0.00	0.00
TIDEWATER SILVERSIDE	10.48	42.5	0.45	0.00
GULF MENHADEN	125.60	22.8	0.06	0.00

DENSITY OF ALL INDIVIDUALS 148.70

MEAN LENGTH OF ALL INDIVIDUALS 26.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.29

LAVACA BAY Ichthyoplankton DATA

DATE - 23 Jan 1985 STATION - LAB613

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 0.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.51	20.0	0.00	0.00
GRASS SHRIMP	2.97	0.0	0.00	0.13
STRIPED MULLET	2.97	23.0	0.00	0.00
GULF MENHADEN	16.48	22.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 23.94

MEAN LENGTH OF ALL INDIVIDUALS 16.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 22 Jan 1985 STATION - LAB623

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 214

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	4.29	22.5	0.00	0.00
SPOT	5.02	7.5	0.00	0.00
ATLANTIC CROAKER	198.81	12.2	0.00	0.00
BAY ANCHOVY	238.18	21.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 446.31

MEAN LENGTH OF ALL INDIVIDUALS 15.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 23 Jan 1985 STATION - LAB65

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	20.58	24.5	0.24	0.00

DENSITY OF ALL INDIVIDUALS 20.58

MEAN LENGTH OF ALL INDIVIDUALS 24.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

LAVACA BAY Ichthyoplankton DATA

DATE - 23 Jan 1985 STATION - LAB85

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	2.26	20.0	0.00	0.00
SPOT	2.26	9.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 4.52
 MEAN LENGTH OF ALL INDIVIDUALS 14.5
 MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB45

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 42

TOTAL WEIGHT OF ALL INDIVIDUALS 363.49 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	38.0	0.60	0.60
FRESHWATER SHRIMP	0.33	0.0	0.00	0.55
SOUTHERN FLOUNDER	0.33	110.0	24.20	24.20
STRIPED MULLET	0.33	132.0	49.99	49.99
BLUE CATFISH	0.67	171.0	103.53	207.07
BLUE CRAB	1.33	37.7	10.84	43.36
HOGCHOKER	2.00	48.6	4.81	24.91
ATLANTIC CROAKER	8.67	28.2	0.49	12.81

DENSITY OF ALL INDIVIDUALS 14.00

MEAN LENGTH OF ALL INDIVIDUALS 70.7

MEAN WEIGHT OF ALL INDIVIDUALS 24.31

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 439

TOTAL WEIGHT OF ALL INDIVIDUALS 413.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GIZZARD SHAD	0.33	93.0	13.37	13.37
SOUTHERN FLOUNDER	0.33	19.0	0.11	0.11
STRIPED MULLET	0.33	140.0	56.26	56.26
HARRIS' MUD CRAB	0.67	10.5	0.64	1.27
BAY ANCHOVY	1.67	28.9	0.34	1.73
BLUE CRAB	7.00	32.5	11.98	151.73
GULF MENHADEN	8.33	22.1	0.09	2.76
GRASS SHRIMP	17.00	0.0	0.00	19.67
ATLANTIC CROAKER	110.67	26.5	0.51	166.38

DENSITY OF ALL INDIVIDUALS 146.33

MEAN LENGTH OF ALL INDIVIDUALS

41.4

MEAN WEIGHT OF ALL INDIVIDUALS

9.26

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB613

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 467

TOTAL WEIGHT OF ALL INDIVIDUALS 511.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.33	14.0	0.01	0.01
FRESHWATER SHRIMP	0.33	0.0	0.00	2.16
HARRIS' MUD CRAB	0.33	9.0	0.20	0.20
SOUTHERN FLOUNDER	0.33	23.0	0.21	0.21
SPOT	0.33	96.0	20.30	20.30
BAY ANCHOVY	1.00	43.7	1.16	3.47
THREADFIN SHAD	1.33	48.0	1.53	6.11
GRASS SHRIMP	2.67	0.0	0.00	2.64
GULF MENHADEN	3.00	31.1	0.57	3.66
BLUE CRAB	22.33	24.0	4.25	274.69
ATLANTIC CROAKER	123.67	29.2	0.56	198.12

DENSITY OF ALL INDIVIDUALS 155.67

MEAN LENGTH OF ALL INDIVIDUALS 28.9

MEAN WEIGHT OF ALL INDIVIDUALS 2.62

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 502

TOTAL WEIGHT OF ALL INDIVIDUALS 1229.69 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	27.0	0.71	0.71
HARRIS' MUD CRAB	0.33	7.0	0.09	0.09
PINFISH	0.33	36.0	1.43	1.43
NAKED GOBY	0.67	28.5	0.56	1.12
STRIPED MULLET	0.67	138.0	53.72	107.43
SOUTHERN FLOUNDER	1.00	81.7	25.90	52.07
BLACKCHEEK TOUNGFISH	1.33	45.8	1.07	4.22
GULF MENHADEN	2.67	26.2	0.27	2.11
BLUE CRAB	24.00	25.2	13.36	769.87
GRASS SHRIMP	39.00	0.0	0.00	40.35
ATLANTIC CROAKER	97.00	33.8	0.89	250.29

DENSITY OF ALL INDIVIDUALS 167.33

MEAN LENGTH OF ALL INDIVIDUALS 40.8

MEAN WEIGHT OF ALL INDIVIDUALS 8.91

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB633

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 786

TOTAL WEIGHT OF ALL INDIVIDUALS 529.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE SHRIMP	0.33	72.0	2.30	2.30
BLACKCHEEK TOUNGFISH	0.67	45.0	1.02	2.04
BAY ANCHOVY	2.00	37.2	0.63	3.79
SOUTHERN FLOUNDER	3.00	29.8	0.55	4.79
BLUE CRAB	8.00	17.4	0.76	21.34
GRASS SHRIMP	18.00	0.0	0.00	14.42
GULF MENHADEN	24.00	27.9	0.36	26.65
ATLANTIC CROAKER	206.00	34.1	0.96	454.05

DENSITY OF ALL INDIVIDUALS 262.00

MEAN LENGTH OF ALL INDIVIDUALS 32.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.82

LAVACA BAY

Trawl

DATA

DATE - 5 Mar 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 585

TOTAL WEIGHT OF ALL INDIVIDUALS 3537.06 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.67	0.0	0.00	0.83
GULF MENHADEN	0.67	35.0	0.72	1.45
HOGCHOKER	0.67	59.5	7.88	15.77
SOUTHERN FLOUNDER	1.00	144.3	61.88	220.79
FRESHWATER SHRIMP	2.33	0.0	0.00	7.30
BAY ANCHOVY	7.33	38.0	0.59	13.21
BLUE CATFISH	12.33	142.0	69.76	2818.01
BLUE CRAB	24.33	19.9	1.49	129.55
ATLANTIC CROAKER	145.67	30.9	0.79	330.15

DENSITY OF ALL INDIVIDUALS 195.00

MEAN LENGTH OF ALL INDIVIDUALS 52.2

MEAN WEIGHT OF ALL INDIVIDUALS 15.90

LAVACA BAY

Trawl

DATA

DATE - 6 Mar 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 245

TOTAL WEIGHT OF ALL INDIVIDUALS 291.69 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.31
HARRIS' MUD CRAB	0.33	5.0	0.05	0.05
SOUTHERN FLOUNDER	0.33	23.0	0.22	0.22
BLUE CRAB	3.33	27.3	2.09	21.29
GULF MENHADEN	3.33	25.1	0.24	2.76
BAY ANCHOVY	5.33	32.0	0.53	7.40
ATLANTIC CROAKER	68.67	38.7	1.26	259.66

DENSITY OF ALL INDIVIDUALS 81.67

MEAN LENGTH OF ALL INDIVIDUALS 21.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.63

LAVACA BAY

Seine

DATA

DATE - 5 Mar 1985 STATION - LAB45

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 4836

TOTAL WEIGHT OF ALL INDIVIDUALS 480.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAYOU KILLIFISH	0.11	38.0	0.79	0.79
GULF KILLIFISH	0.11	37.0	1.15	1.15
SHEEPSHEAD MINNOW	0.11	30.0	1.22	1.22
BLUE CRAB	0.42	14.0	0.28	1.11
ATLANTIC CROAKER	2.02	23.5	0.31	6.32
STRIPED MULLET	4.04	29.7	1.52	68.10
TIDEWATER SILVERSIDE	4.04	36.8	0.72	28.49
BAY ANCHOVY	7.34	21.5	0.09	6.28
GULF MENHADEN	496.28	21.7	0.07	366.92

DENSITY OF ALL INDIVIDUALS 514.47

MEAN LENGTH OF ALL INDIVIDUALS

28.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.68

LAVACA BAY

Seine

DATA

DATE - 6 Mar 1985 STATION - LAB603

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 1366

TOTAL WEIGHT OF ALL INDIVIDUALS 243.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.11	67.0	0.12	0.12
HARRIS' MUD CRAB	0.11	6.0	0.06	0.06
NAKED GOBY	0.11	20.0	0.14	0.14
PINFISH	0.22	14.5	0.06	0.11
BLUE CRAB	0.32	7.5	0.05	0.12
STRIPED MULLET	0.32	26.8	0.34	0.99
TIDEWATER SILVERSIDE	0.42	30.3	0.27	1.39
SPOT	0.85	14.3	0.06	0.44
BAY ANCHOVY	3.08	26.3	0.22	8.88
ATLANTIC CROAKER	21.59	25.7	0.34	61.71
GRASS SHRIMP	45.00	0.0	0.00	84.57
GULF MENHADEN	73.19	22.4	0.10	84.75

DENSITY OF ALL INDIVIDUALS 145.31

MEAN LENGTH OF ALL INDIVIDUALS 21.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

LAVACA BAY

Seine

DATA

DATE - 6 Mar 1985 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 2683

TOTAL WEIGHT OF ALL INDIVIDUALS 550.22 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	47.0	2.57	2.57
BLUE CRAB	0.75	30.1	15.11	180.30
BROWN SHRIMP	0.75	13.7	0.01	0.07
STRIPED MULLET	0.85	25.8	0.30	2.39
TIDEWATER SILVERSIDE	0.85	26.3	0.21	1.69
SPOT	4.25	13.3	0.04	1.93
GRASS SHRIMP	7.23	0.0	0.00	29.24
ATLANTIC CROAKER	18.30	24.1	0.30	50.19
BAY ANCHOVY	106.27	24.6	0.15	139.98
GULF MENHADEN	146.06	22.3	0.09	141.86

DENSITY OF ALL INDIVIDUALS 285.42

MEAN LENGTH OF ALL INDIVIDUALS 22.7

MEAN WEIGHT OF ALL INDIVIDUALS 1.88

LAVACA BAY

Seine

DATA

DATE - 6 Mar 1985 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 10350

TOTAL WEIGHT OF ALL INDIVIDUALS 901.89 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.11	30.0	0.64	0.64
ATLANTIC CROAKER	0.32	31.3	0.70	2.54
TIDEWATER SILVERSIDE	0.32	38.0	0.67	2.18
STRIPED MULLET	0.54	23.4	0.22	1.10
GRASS SHRIMP	1.27	0.0	0.00	3.11
BAY ANCHOVY	1.60	41.7	1.08	11.68
GULF MENHADEN	1096.92	21.8	0.08	880.64

DENSITY OF ALL INDIVIDUALS 1101.07

MEAN LENGTH OF ALL INDIVIDUALS

26.6

MEAN WEIGHT OF ALL INDIVIDUALS

0.48

LAVACA BAY

Seine

DATA

DATE - 6 Mar 1985 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 712

TOTAL WEIGHT OF ALL INDIVIDUALS 123.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.11	14.0	0.03	0.03
STRIPED MULLET	0.11	28.0	0.33	0.33
BAY ANCHOVY	0.22	45.0	1.26	2.52
SPOT	0.32	13.8	0.04	0.14
BROWN SHRIMP	0.75	13.3	0.01	0.08
BLUE CRAB	1.81	6.0	0.03	0.39
GRASS SHRIMP	7.98	0.0	0.00	15.20
ATLANTIC CROAKER	15.96	21.6	0.22	35.03
GULF MENHADEN	48.51	23.2	0.18	69.72

DENSITY OF ALL INDIVIDUALS 75.75

MEAN LENGTH OF ALL INDIVIDUALS 18.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.23

LAVACA BAY

Seine

DATA

DATE - 5 Mar 1985 STATION - LAB65

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 4038

TOTAL WEIGHT OF ALL INDIVIDUALS 506.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	33.0	0.78	0.78
NAKED GOBY	0.11	19.0	0.09	0.09
BLUE CRAB	0.22	8.0	0.04	0.07
ATLANTIC CROAKER	0.43	19.8	0.19	0.78
GRASS SHRIMP	0.64	0.0	0.00	0.74
SPOT	0.64	19.5	0.16	0.97
STRIPED MULLET	1.06	32.3	3.11	42.46
TIDEWATER SILVERSIDE	1.17	35.5	0.59	8.52
BAY ANCHOVY	33.20	24.1	0.16	47.85
GULF MENHADEN	392.02	22.5	0.09	404.35

DENSITY OF ALL INDIVIDUALS 429.59

MEAN LENGTH OF ALL INDIVIDUALS 21.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.52

LAVACA BAY

Seine

DATA

DATE - 5 Mar 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 861

TOTAL WEIGHT OF ALL INDIVIDUALS 136.96 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	17.0	0.44	0.44
THREADFIN SHAD	0.11	44.0	1.01	1.01
TIDEWATER SILVERSIDE	0.11	42.0	0.83	0.83
GRASS SHRIMP	0.22	0.0	0.00	0.34
ATLANTIC CROAKER	2.34	33.4	0.82	21.08
BAY ANCHOVY	31.07	24.6	0.14	42.57
GULF MENHADEN	57.66	22.8	0.11	70.69

DENSITY OF ALL INDIVIDUALS 91.59

MEAN LENGTH OF ALL INDIVIDUALS 26.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.48

LAVACA BAY

Benthic Sled

DATA

DATE - 6 Mar 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 153

TOTAL WEIGHT OF ALL INDIVIDUALS 8.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.41	0.0	0.00	0.12
BAY ANCHOVY	1.25	21.0	0.07	0.20
ATLANTIC CROAKER	1.66	27.3	0.45	1.80
BLUE CRAB	5.00	7.7	0.06	0.70
GULF MENHADEN	55.42	20.8	0.04	5.49

DENSITY OF ALL INDIVIDUALS 63.75

MEAN LENGTH OF ALL INDIVIDUALS 15.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.12

LAVACA BAY Benthic Sled DATA

DATE - 6 Mar 1985 STATION - LAB603

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 41

TOTAL WEIGHT OF ALL INDIVIDUALS 10.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	0.41	34.0	1.40	1.40
SPOT	0.41	15.0	0.06	0.06
NAKED GOBY	1.67	17.3	0.11	0.42
BLUE CRAB	2.91	8.3	0.07	0.43
ATLANTIC CROAKER	5.00	29.2	0.55	5.92
GRASS SHRIMP	6.67	0.0	0.00	2.43

DENSITY OF ALL INDIVIDUALS 17.08

MEAN LENGTH OF ALL INDIVIDUALS 17.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.36

LAVACA BAY

Benthic Sled

DATA

DATE - 6 Mar 1985 STATION - LAB613

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 88

TOTAL WEIGHT OF ALL INDIVIDUALS 106.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.41	11.0	0.01	0.01
PINFISH	0.41	15.0	0.06	0.06
BROWN SHRIMP	0.83	13.5	0.01	0.02
GULF MENHADEN	3.33	21.0	0.05	0.38
BLUE CRAB	3.75	23.4	12.06	96.54
SPOT	4.17	12.9	0.04	0.39
GRASS SHRIMP	5.41	0.0	0.00	2.90
ATLANTIC CROAKER	18.33	18.3	0.15	6.41

DENSITY OF ALL INDIVIDUALS 36.67

MEAN LENGTH OF ALL INDIVIDUALS 14.4

MEAN WEIGHT OF ALL INDIVIDUALS 1.55

LAVACA BAY Benthic Sled DATA

DATE - 6 Mar 1985 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 925

TOTAL WEIGHT OF ALL INDIVIDUALS 69.17 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.41	19.0	0.11	0.11
BAY WHIFF	0.83	11.0	0.02	0.04
NAKED GOBY	0.83	26.0	0.50	1.00
PINFISH	1.25	13.7	0.03	0.08
GRASS SHRIMP	2.91	0.0	0.00	1.22
ATLANTIC CROAKER	3.33	13.8	0.04	0.42
BLUE CRAB	5.00	16.0	0.46	5.47
SPOT	8.33	13.1	0.03	0.67
BROWN SHRIMP	45.42	13.5	0.01	1.09
GULF MENHADEN	317.08	21.7	0.06	59.07

DENSITY OF ALL INDIVIDUALS 385.41

MEAN LENGTH OF ALL INDIVIDUALS 14.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY Benthic Sled DATA

DATE - 6 Mar 1985 STATION - LAB633

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 57

TOTAL WEIGHT OF ALL INDIVIDUALS 8.40 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.41	10.0	0.01	0.01
BLACKCHEEK TOUNGFISH	0.41	11.0	0.02	0.02
GRASS SHRIMP	0.41	0.0	0.00	0.28
BLUE CRAB	4.58	7.1	0.04	0.42
BROWN SHRIMP	5.00	13.4	0.01	0.12
GULF MENHADEN	5.00	23.2	0.12	1.39
ATLANTIC CROAKER	7.92	23.3	0.34	6.16

DENSITY OF ALL INDIVIDUALS 23.74

MEAN LENGTH OF ALL INDIVIDUALS 12.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.08

LAVACA BAY Benthic Sled DATA

DATE - 6 Mar 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 379

TOTAL WEIGHT OF ALL INDIVIDUALS 21.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	35.0	0.81	0.81
SHEEPSHEAD MINNOW	0.41	37.0	2.30	2.30
SOUTHERN FLOUNDER	0.41	38.0	0.95	0.95
NAKED GOBY	1.25	20.3	0.18	0.55
BLUE CRAB	3.33	10.6	0.17	1.90
GRASS SHRIMP	3.33	0.0	0.00	0.56
BAY ANCHOVY	5.41	21.9	0.09	1.12
GULF MENHADEN	143.33	20.8	0.04	13.47

DENSITY OF ALL INDIVIDUALS 157.91

MEAN LENGTH OF ALL INDIVIDUALS 22.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.57

LAVACA BAY Benthic Sled DATA

DATE - 5 Mar 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 28

TOTAL WEIGHT OF ALL INDIVIDUALS 2.29 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	21.0	0.09	0.09
BLUE CRAB	0.41	14.0	0.19	0.19
ATLANTIC CROAKER	0.83	26.0	0.39	0.78
BAY WHIFF	0.83	10.0	0.02	0.04
SPOT	0.83	12.0	0.04	0.07
GRASS SHRIMP	1.25	0.0	0.00	0.72
GULF MENHADEN	1.25	20.7	0.09	0.26
BROWN SHRIMP	5.83	12.7	0.01	0.14

DENSITY OF ALL INDIVIDUALS 11.67

MEAN LENGTH OF ALL INDIVIDUALS 14.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.10

LAVACA BAY

Ichthyoplankton DATA

DATE - 5 Mar 1985 STATION - LAB45

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 34

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED MULLET	1.39	25.0	0.00	0.00
GULF MENHADEN	47.04	21.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 48.44

MEAN LENGTH OF ALL INDIVIDUALS 23.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 5 Mar 1985 STATION - LAB603

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 556

TOTAL WEIGHT OF ALL INDIVIDUALS 44.30 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	1.66	0.0	0.00	0.19
GULF MENHADEN	889.02	21.4	0.00	44.11

DENSITY OF ALL INDIVIDUALS 890.69

MEAN LENGTH OF ALL INDIVIDUALS 10.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 5 Mar 1985 STATION - LAB613

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 63

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.89	7.0	0.00	0.00
GULF MENHADEN	123.25	20.8	0.00	0.00

DENSITY OF ALL INDIVIDUALS 125.14

MEAN LENGTH OF ALL INDIVIDUALS 13.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 5 Mar 1985 STATION - LAB623

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 69

TOTAL WEIGHT OF ALL INDIVIDUALS 0.19 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	2.16	0.0	0.00	0.19
GULF MENHADEN	150.97	21.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 153.13

MEAN LENGTH OF ALL INDIVIDUALS 10.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 5 Mar 1985 STATION - LAB633

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 25

TOTAL WEIGHT OF ALL INDIVIDUALS 0.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.51	8.0	0.00	0.00
BROWN SHRIMP	1.51	13.0	0.00	0.00
WHITE SHRIMP	1.51	10.0	0.00	0.00
GRASS SHRIMP	4.79	0.0	0.00	0.53
GULF MENHADEN	14.90	22.6	0.00	0.00
ROUGH SILVERSIDE	17.66	4.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 41.90

MEAN LENGTH OF ALL INDIVIDUALS 9.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 6 Mar 1985 STATION - LAB65

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 16

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	27.26	21.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 27.26

MEAN LENGTH OF ALL INDIVIDUALS 21.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 6 Mar 1985 STATION - LAB85

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.58	5.0	0.00	0.00
GULF MENHADEN	15.87	19.1	0.00	0.00

DENSITY OF ALL INDIVIDUALS 17.45

MEAN LENGTH OF ALL INDIVIDUALS 12.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 655

TOTAL WEIGHT OF ALL INDIVIDUALS 1703.76 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK CRAPPIE	0.33	120.0	57.56	57.56
GIZZARD SHAD	0.33	123.0	24.69	24.69
THREADFIN SHAD	0.33	69.0	4.94	4.94
HOGCHOKER	0.67	44.0	3.41	6.82
SPOT	0.67	33.0	0.91	1.82
BLUE CRAB	1.67	12.7	0.17	0.80
BLUE CATFISH	2.67	161.2	119.48	895.83
BAY ANCHOVY	8.33	34.7	0.52	12.55
FRESHWATER SHRIMP	25.67	0.0	0.00	155.53
ATLANTIC CROAKER	61.33	32.6	0.87	163.40
GULF MENHADEN	116.33	37.7	1.03	379.82

DENSITY OF ALL INDIVIDUALS 218.33

MEAN LENGTH OF ALL INDIVIDUALS

60.7

MEAN WEIGHT OF ALL INDIVIDUALS

19.42

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 426

TOTAL WEIGHT OF ALL INDIVIDUALS 1873.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.33	0.0	0.00	2.80
GIZZARD SHAD	0.33	111.0	21.67	21.67
GRASS SHRIMP	0.33	0.0	0.00	0.49
HOGCHOKER	0.33	44.0	3.56	3.56
BAY ANCHOVY	0.67	23.5	0.14	0.28
HARRIS' MUD CRAB	0.67	9.0	0.26	0.51
THREADFIN SHAD	0.67	51.0	1.62	3.25
SOUTHERN FLOUNDER	1.33	36.8	0.74	3.00
BLUE CATFISH	2.33	136.6	89.03	690.43
GULF MENHADEN	3.67	27.8	0.37	4.69
BLUE CRAB	10.00	31.9	7.34	191.35
ATLANTIC CROAKER	121.33	44.4	2.58	951.68

DENSITY OF ALL INDIVIDUALS 142.00

MEAN LENGTH OF ALL INDIVIDUALS 43.0

MEAN WEIGHT OF ALL INDIVIDUALS 10.61

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 607

TOTAL WEIGHT OF ALL INDIVIDUALS 2158.07 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
THREADFIN SHAD	0.33	60.0	2.44	2.44
FRESHWATER SHRIMP	1.00	0.0	0.00	2.77
BROWN SHRIMP	2.67	24.9	0.11	0.83
BAY ANCHOVY	3.33	29.3	0.31	4.95
GRASS SHRIMP	4.33	0.0	0.00	5.52
SPOT	6.00	34.2	0.98	17.56
SOUTHERN FLOUNDER	6.67	35.2	2.76	98.30
BLUE CRAB	10.67	68.9	39.71	1295.26
GULF MENHADEN	60.67	29.0	0.39	68.89
ATLANTIC CROAKER	106.67	42.7	2.10	661.55

DENSITY OF ALL INDIVIDUALS 202.33

MEAN LENGTH OF ALL INDIVIDUALS

32.4

MEAN WEIGHT OF ALL INDIVIDUALS

4.88

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1633

TOTAL WEIGHT OF ALL INDIVIDUALS 2657.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	13.0	0.62	0.62
HOGCHOKER	0.33	42.0	2.85	2.85
PINFISH	0.33	31.0	0.82	0.82
BLUE CATFISH	1.33	116.0	25.21	95.20
BAY ANCHOVY	2.00	43.2	1.02	5.76
GRASS SHRIMP	5.33	0.0	0.00	6.70
BROWN SHRIMP	7.67	27.3	0.15	3.35
BLUE CRAB	11.33	38.6	19.32	619.29
SPOT	46.67	39.8	1.54	216.24
GULF MENHADEN	148.00	31.9	0.55	250.48
ATLANTIC CROAKER	321.00	41.0	1.47	1456.31

DENSITY OF ALL INDIVIDUALS 544.33

MEAN LENGTH OF ALL INDIVIDUALS

38.5

MEAN WEIGHT OF ALL INDIVIDUALS

4.87

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 150

TOTAL WEIGHT OF ALL INDIVIDUALS 365.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	11.0	0.61	0.61
HOGCHOKER	0.33	52.0	5.61	5.61
LINED SOLE	0.67	38.5	2.76	5.51
BLUE CATFISH	1.00	117.0	25.55	76.25
BAY ANCHOVY	2.33	37.8	0.64	5.27
GULF MENHADEN	3.00	27.6	0.29	2.71
FRESHWATER SHRIMP	6.33	0.0	0.00	25.15
BLUE CRAB	13.00	30.2	3.08	134.74
ATLANTIC CROAKER	23.00	39.1	1.60	109.48

DENSITY OF ALL INDIVIDUALS 50.00

MEAN LENGTH OF ALL INDIVIDUALS 39.2

MEAN WEIGHT OF ALL INDIVIDUALS 4.46

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 911

TOTAL WEIGHT OF ALL INDIVIDUALS 1898.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE CRAPPIE	0.33	170.0	150.00	150.00
HOGCHOKER	0.67	43.0	3.16	6.31
BROWN SHRIMP	1.33	19.5	0.05	0.27
GRASS SHRIMP	2.67	0.0	0.00	3.56
BLUE CATFISH	3.33	145.0	60.90	612.91
SPOT	4.00	34.8	1.00	13.53
FRESHWATER SHRIMP	4.33	0.0	0.00	26.10
BLUE CRAB	12.67	24.1	2.21	78.68
BAY ANCHOVY	35.67	34.0	0.54	167.99
GULF MENHADEN	116.67	32.0	0.57	209.51
ATLANTIC CROAKER	122.00	42.1	1.84	629.75

DENSITY OF ALL INDIVIDUALS 303.67

MEAN LENGTH OF ALL INDIVIDUALS 49.5

MEAN WEIGHT OF ALL INDIVIDUALS 20.02

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 317

TOTAL WEIGHT OF ALL INDIVIDUALS 1301.84 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.33	73.0	3.02	3.02
HARDHEAD CATFISH	0.33	256.0	350.00	350.00
HOGCHOKER	0.67	85.0	29.30	58.61
NAKED GOBY	0.67	29.0	0.61	1.22
FRESHWATER SHRIMP	1.00	0.0	0.00	10.53
GULF MENHADEN	1.00	31.7	0.55	1.65
SPOT	1.00	39.5	1.53	4.81
BAY ANCHOVY	2.67	27.2	0.25	2.13
GRASS SHRIMP	3.00	0.0	0.00	4.89
BLUE CRAB	10.00	40.8	7.65	212.65
ATLANTIC CROAKER	85.00	47.6	2.55	652.33

DENSITY OF ALL INDIVIDUALS 105.67

MEAN LENGTH OF ALL INDIVIDUALS 57.3

MEAN WEIGHT OF ALL INDIVIDUALS 35.95

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 150

TOTAL WEIGHT OF ALL INDIVIDUALS 365.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	11.0	0.61	0.61
HOGCHOKER	0.33	52.0	5.61	5.61
LINED SOLE	0.67	38.5	2.76	5.51
BLUE CATFISH	1.00	117.0	25.55	76.25
BAY ANCHOVY	2.33	37.8	0.64	5.27
GULF MENHADEN	3.00	27.6	0.29	2.71
FRESHWATER SHRIMP	6.33	0.0	0.00	25.15
BLUE CRAB	13.00	30.2	3.08	134.74
ATLANTIC CROAKER	23.00	39.1	1.60	109.48

DENSITY OF ALL INDIVIDUALS 50.00

MEAN LENGTH OF ALL INDIVIDUALS 39.2

MEAN WEIGHT OF ALL INDIVIDUALS 4.46

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 341

TOTAL WEIGHT OF ALL INDIVIDUALS 225.43 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.11	14.0	0.01	0.01
PINFISH	0.11	13.0	0.03	0.03
HARRIS' MUD CRAB	0.21	5.0	0.02	0.04
STRIPED MULLET	1.70	36.7	1.25	28.08
BAY ANCHOVY	1.91	35.4	0.64	8.85
TIDEWATER SILVERSIDE	3.94	41.1	0.85	37.30
SPOT	4.68	32.1	0.85	37.02
GRASS SHRIMP	4.79	0.0	0.00	14.90
BLUE CRAB	4.89	13.3	0.50	26.52
ATLANTIC CROAKER	5.42	38.8	1.13	56.52
GULF MENHADEN	8.51	24.8	0.21	16.16

DENSITY OF ALL INDIVIDUALS 36.27

MEAN LENGTH OF ALL INDIVIDUALS 23.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.50

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 223

TOTAL WEIGHT OF ALL INDIVIDUALS 360.56 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	41.0	1.80	1.80
GULF PIPEFISH	0.11	67.0	0.13	0.13
HARRIS' MUD CRAB	0.11	10.0	0.41	0.41
NAKED GOBY	0.32	25.8	0.36	1.03
SPOT	0.32	23.3	0.29	0.87
ROUGH SILVERSIDE	0.53	63.0	2.62	13.30
BLUE CATFISH	0.54	142.1	43.97	235.96
FRESHWATER SHRIMP	0.85	0.0	0.00	2.22
BLUE CRAB	0.85	11.4	0.22	1.95
GULF MENHADEN	1.91	22.3	0.11	2.07
ATLANTIC CROAKER	5.11	44.0	1.85	77.77
GRASS SHRIMP	12.98	0.0	0.00	23.05

DENSITY OF ALL INDIVIDUALS 23.72

MEAN LENGTH OF ALL INDIVIDUALS 37.5

MEAN WEIGHT OF ALL INDIVIDUALS 4.31

LAVACA BAY

Seine

DATA

DATE - 4 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 458

TOTAL WEIGHT OF ALL INDIVIDUALS 242.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	8.0	0.24	0.24
PINFISH	0.11	21.0	0.23	0.23
GULF KILLIFISH	0.21	64.0	6.86	13.71
STRIPED MULLET	0.22	23.0	0.18	0.37
SOUTHERN FLOUNDER	0.32	41.0	1.36	3.19
SPOT	0.32	19.7	0.17	0.52
BAY ANCHOVY	0.64	25.5	0.16	0.95
BLUE CRAB	1.81	22.1	13.45	162.00
ATLANTIC CROAKER	2.98	36.7	0.92	26.30
GRASS SHRIMP	3.08	0.0	0.00	7.64
GULF MENHADEN	14.26	23.5	0.14	17.97
BROWN SHRIMP	24.68	18.6	0.04	9.54

DENSITY OF ALL INDIVIDUALS 48.73

MEAN LENGTH OF ALL INDIVIDUALS

25.3

MEAN WEIGHT OF ALL INDIVIDUALS

1.98

LAVACA BAY

Seine

DATA

DATE - 4 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1212

TOTAL WEIGHT OF ALL INDIVIDUALS 866.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	0.21	58.5	2.24	4.48
SOUTHERN FLOUNDER	0.21	44.5	1.70	3.41
BAY WHIFF	0.22	21.0	0.16	0.32
HARRIS' MUD CRAB	0.32	8.3	0.23	0.70
FRESHWATER SHRIMP	0.42	0.0	0.00	5.13
HOGCHOKER	0.42	44.0	3.75	15.00
SPOT	2.13	27.9	0.66	15.51
BLUE CRAB	2.66	27.6	3.06	85.17
GRASS SHRIMP	2.66	0.0	0.00	10.02
BAY ANCHOVY	3.40	25.7	0.17	6.37
BROWN SHRIMP	6.28	24.4	0.10	5.99
GULF MENHADEN	12.34	24.5	0.20	21.81
ATLANTIC CROAKER	97.66	31.9	0.74	692.83

DENSITY OF ALL INDIVIDUALS 128.94

MEAN LENGTH OF ALL INDIVIDUALS

26.0

MEAN WEIGHT OF ALL INDIVIDUALS

1.00

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 146

TOTAL WEIGHT OF ALL INDIVIDUALS 34.46 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	12.0	0.21	0.21
PINFISH	0.11	17.0	0.13	0.13
BROWN SHRIMP	0.22	16.5	0.02	0.04
GULF MENHADEN	2.34	22.4	0.10	2.11
ATLANTIC CROAKER	12.77	22.9	0.28	31.97

DENSITY OF ALL INDIVIDUALS 15.53

MEAN LENGTH OF ALL INDIVIDUALS 18.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 3050

TOTAL WEIGHT OF ALL INDIVIDUALS 507.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	132.0	43.58	43.58
FRESHWATER SHRIMP	0.11	0.0	0.00	9.47
GULF KILLIFISH	0.11	64.0	6.38	6.38
GULF PIPEFISH	0.11	115.0	1.02	1.02
RED DRUM	0.11	90.0	13.96	13.96
ATLANTIC CROAKER	0.32	43.2	1.52	4.97
BLUE CRAB	0.32	9.0	0.07	0.20
BROWN SHRIMP	2.34	14.5	0.01	0.28
GRASS SHRIMP	15.21	0.0	0.00	39.26
GULF MENHADEN	82.98	21.5	0.08	67.45
BAY ANCHOVY	222.77	24.6	0.14	320.44

DENSITY OF ALL INDIVIDUALS 324.46

MEAN LENGTH OF ALL INDIVIDUALS 46.7

MEAN WEIGHT OF ALL INDIVIDUALS 6.07

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 289

TOTAL WEIGHT OF ALL INDIVIDUALS 127.22 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.11	11.0	0.02	0.02
BLACK DRUM	0.11	7.0	0.01	0.01
FRESHWATER SHRIMP	0.11	0.0	0.00	0.07
SOUTHERN FLOUNDER	0.11	28.0	0.44	0.44
STRIPED MULLET	0.11	54.0	3.97	3.97
BLUE CRAB	0.75	26.8	1.87	4.76
TIDEWATER SILVERSIDE	0.85	57.9	2.23	17.83
SPOT	1.27	37.1	1.54	18.39
GRASS SHRIMP	1.70	0.0	0.00	7.77
ATLANTIC CROAKER	2.77	38.5	1.35	56.34
BAY ANCHOVY	4.58	25.7	0.16	6.55
GULF MENHADEN	5.96	24.9	0.19	7.88
BROWN SHRIMP	12.34	17.8	0.03	3.19

DENSITY OF ALL INDIVIDUALS 30.74

MEAN LENGTH OF ALL INDIVIDUALS 25.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.91

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 57

TOTAL WEIGHT OF ALL INDIVIDUALS 12.56 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	26.0	0.17	0.17
SOUTHERN FLOUNDER	0.41	22.0	0.20	0.20
TIDEWATER SILVERSIDE	0.41	26.0	0.21	0.21
NAKED GOBY	0.83	24.5	0.36	0.71
SPOT	0.83	31.5	0.74	1.49
ATLANTIC CROAKER	1.25	23.0	0.27	1.03
BROWN SHRIMP	1.25	13.0	0.01	0.03
GULF MENHADEN	2.91	21.1	0.08	0.54
GRASS SHRIMP	4.16	0.0	0.00	3.88
BLUE CRAB	11.25	11.3	0.17	4.30

DENSITY OF ALL INDIVIDUALS 23.75

MEAN LENGTH OF ALL INDIVIDUALS 19.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.22

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 46

TOTAL WEIGHT OF ALL INDIVIDUALS 64.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.41	12.0	0.02	0.02
GRASS SHRIMP	0.41	0.0	0.00	0.07
SOUTHERN FLOUNDER	0.83	27.0	0.37	0.74
ATLANTIC CROAKER	1.66	21.5	0.24	0.94
GULF MENHADEN	1.66	22.5	0.12	60.00
BLUE CRAB	6.66	10.7	0.14	2.43
BROWN SHRIMP	7.50	17.1	0.03	0.46

DENSITY OF ALL INDIVIDUALS 19.16

MEAN LENGTH OF ALL INDIVIDUALS

15.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.13

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 10.81 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.41	83.0	0.22	0.22
HARRIS' MUD CRAB	0.41	7.0	0.08	0.08
GRASS SHRIMP	0.83	0.0	0.00	0.30
SOUTHERN FLOUNDER	1.25	25.5	0.34	1.06
ATLANTIC CROAKER	2.08	31.6	0.67	4.25
BLUE CRAB	5.42	11.9	0.27	3.33
BROWN SHRIMP	20.83	16.9	0.03	1.57

DENSITY OF ALL INDIVIDUALS 31.25

MEAN LENGTH OF ALL INDIVIDUALS 25.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.23

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 36

TOTAL WEIGHT OF ALL INDIVIDUALS 28.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.83	19.5	0.17	0.35
NAKED GOBY	1.67	26.3	0.58	2.33
FRESHWATER SHRIMP	2.91	0.0	0.00	1.46
BROWN SHRIMP	2.92	12.5	0.01	0.07
BLUE CRAB	6.67	20.4	1.52	24.36

DENSITY OF ALL INDIVIDUALS 15.01

MEAN LENGTH OF ALL INDIVIDUALS 15.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 20

TOTAL WEIGHT OF ALL INDIVIDUALS 3.26 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	8.0	0.08	0.08
SPOT	0.41	6.0	0.01	0.01
BROWN SHRIMP	1.25	12.7	0.01	0.03
ATLANTIC CROAKER	1.66	24.5	0.43	2.20
SOUTHERN FLOUNDER	4.58	16.9	0.08	0.94

DENSITY OF ALL INDIVIDUALS 8.33

MEAN LENGTH OF ALL INDIVIDUALS 13.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.12

LAVACA BAY Benthic Sled DATA

DATE - 3 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 79

TOTAL WEIGHT OF ALL INDIVIDUALS 12.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.41	11.0	0.02	0.02
SOUTHERN FLOUNDER	0.41	38.0	1.02	1.02
GULF MENHADEN	1.25	21.3	0.09	0.27
NAKED GOBY	1.25	20.8	0.19	0.54
BAY ANCHOVY	5.00	23.9	0.13	1.51
BLUE CRAB	5.83	12.7	0.21	2.75
GRASS SHRIMP	9.16	0.0	0.00	6.07
BROWN SHRIMP	9.59	14.5	0.01	0.26

DENSITY OF ALL INDIVIDUALS 32.92

MEAN LENGTH OF ALL INDIVIDUALS 17.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.21

LAVACA BAY Benthic Sled DATA

DATE - 2 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 205

TOTAL WEIGHT OF ALL INDIVIDUALS 170.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DARTER GOBY	0.41	18.0	0.00	85.00
PINFISH	0.41	26.0	0.48	0.48
BAY WHIFF	0.83	18.7	0.14	0.25
TIDEWATER SILVERSIDE	0.83	55.5	1.91	3.82
SPOT	1.25	28.7	0.68	2.03
BLUE CRAB	3.33	16.3	0.66	6.01
BAY ANCHOVY	12.50	25.1	0.17	5.20
ATLANTIC CROAKER	14.16	37.9	1.25	58.46
GULF MENHADEN	21.25	23.6	0.14	6.95
BROWN SHRIMP	30.42	18.0	0.03	2.08

DENSITY OF ALL INDIVIDUALS 85.42

MEAN LENGTH OF ALL INDIVIDUALS 26.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.54

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	17.81	25.2	0.00	0.00

DENSITY OF ALL INDIVIDUALS 17.81

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 97

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	3.57	22.0	0.00	0.00
ATLANTIC CROAKER	7.93	32.0	0.00	0.00
GULF MENHADEN	158.80	23.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 170.30

MEAN LENGTH OF ALL INDIVIDUALS

25.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 3 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 1.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	2.32	8.0	0.00	0.00
PINFISH	2.32	13.0	0.00	0.00
STRIPED MULLET	2.32	24.0	0.00	0.00
ROUGH SILVERSIDE	4.81	5.5	0.00	0.00
GRASS SHRIMP	11.60	0.0	0.00	1.13
BAY ANCHOVY	13.93	21.3	0.00	0.00
NAKED GOBY	16.94	3.2	0.00	0.00
BROWN SHRIMP	38.87	12.3	0.00	0.00
GULF MENHADEN	86.15	23.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 179.26

MEAN LENGTH OF ALL INDIVIDUALS 12.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 3 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 531

TOTAL WEIGHT OF ALL INDIVIDUALS 78.03 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	2.08	4.0	0.00	0.00
STRIPED MULLET	2.08	22.0	0.00	0.17
ATLANTIC CROAKER	6.37	6.2	0.00	0.02
PINFISH	6.60	13.7	0.00	0.08
SPECKLED WORM EEL	21.44	50.5	0.00	0.71
GRASS SHRIMP	62.11	0.0	0.00	7.88
BAY ANCHOVY	69.61	25.1	0.00	5.04
BROWN SHRIMP	274.39	12.9	0.00	1.04
GULF MENHADEN	700.47	24.8	0.00	63.09

DENSITY OF ALL INDIVIDUALS 1145.16

MEAN LENGTH OF ALL INDIVIDUALS

17.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 223

TOTAL WEIGHT OF ALL INDIVIDUALS 26.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	1.73	55.0	0.00	0.10
BLUE CRAB	3.46	17.5	0.00	1.16
GRASS SHRIMP	5.13	0.0	0.00	1.54
ROUGH SILVERSIDE	24.19	49.2	0.00	7.49
BAY ANCHOVY	25.67	25.3	0.00	2.36
BROWN SHRIMP	34.00	12.6	0.00	0.01
GULF MENHADEN	288.74	21.8	0.00	13.82

DENSITY OF ALL INDIVIDUALS 382.93

MEAN LENGTH OF ALL INDIVIDUALS 25.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 134

TOTAL WEIGHT OF ALL INDIVIDUALS 9.97 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.58	5.0	0.00	0.00
BAY ANCHOVY	4.75	23.3	0.00	0.40
BLUE CRAB	6.33	10.7	0.00	0.06
GULF MENHADEN	199.55	22.1	0.00	9.51

DENSITY OF ALL INDIVIDUALS 212.22

MEAN LENGTH OF ALL INDIVIDUALS

15.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 229

TOTAL WEIGHT OF ALL INDIVIDUALS 12.51 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.61	18.0	0.00	0.00
GRASS SHRIMP	1.61	0.0	0.00	0.20
ATLANTIC CROAKER	3.20	6.5	0.00	0.00
ROUGH SILVERSIDE	8.05	4.9	0.00	0.00
BAY ANCHOVY	25.64	24.3	0.00	0.00
BROWN SHRIMP	38.47	12.7	0.00	0.00
NAKED GOBY	39.92	3.7	0.00	0.00
GULF MENHADEN	246.91	22.9	0.00	12.31

DENSITY OF ALL INDIVIDUALS 365.42

MEAN LENGTH OF ALL INDIVIDUALS 11.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 65

TOTAL WEIGHT OF ALL INDIVIDUALS 843.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	37.0	0.69	0.69
BLUE CRAB	1.67	19.4	0.73	3.65
BLUE CATFISH	4.67	89.6	57.57	739.55
ATLANTIC CROAKER	5.67	43.8	2.04	37.23
FRESHWATER SHRIMP	9.33	0.0	0.00	62.41

DENSITY OF ALL INDIVIDUALS 21.67

MEAN LENGTH OF ALL INDIVIDUALS 38.0

MEAN WEIGHT OF ALL INDIVIDUALS 12.21

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 911

TOTAL WEIGHT OF ALL INDIVIDUALS 2114.58 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	0.33	48.0	4.42	4.42
BLUE CATFISH	0.67	12.0	30.95	61.90
FRESHWATER SHRIMP	0.67	0.0	0.00	1.16
BLUE CRAB	7.00	40.8	6.62	144.08
SOUTHERN FLOUNDER	10.33	51.3	4.08	130.93
GROOVED SHRIMP	39.00	41.2	0.59	67.77
GULF MENHADEN	55.67	33.9	0.80	120.97
ATLANTIC CROAKER	190.00	50.1	2.84	1583.35

DENSITY OF ALL INDIVIDUALS 303.67

MEAN LENGTH OF ALL INDIVIDUALS

34.7

MEAN WEIGHT OF ALL INDIVIDUALS

6.29

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 721

TOTAL WEIGHT OF ALL INDIVIDUALS 1666.91 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	17.0	93.73	93.73
HARRIS' MUD CRAB	0.33	7.0	0.22	0.22
SPOT	0.33	43.0	2.28	2.28
BAY ANCHOVY	3.00	32.0	0.48	2.99
SAND SEATROUT	3.33	44.1	1.76	18.19
SOUTHERN FLOUNDER	4.00	48.3	12.26	279.62
BLUE CRAB	5.67	50.0	15.10	291.13
GULF MENHADEN	19.33	33.5	0.76	42.87
GROOVED SHRIMP	98.33	44.5	0.83	247.98
ATLANTIC CROAKER	105.67	46.1	2.19	687.90

DENSITY OF ALL INDIVIDUALS 240.33

MEAN LENGTH OF ALL INDIVIDUALS 36.6

MEAN WEIGHT OF ALL INDIVIDUALS 12.96

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 700

TOTAL WEIGHT OF ALL INDIVIDUALS 5000.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	13.0	45.26	45.26
HARRIS' MUD CRAB	0.33	12.0	0.52	0.52
SPOT	0.33	54.0	3.69	3.69
BAY ANCHOVY	1.00	37.2	0.56	1.67
BLUE CATFISH	1.33	13.8	46.48	168.97
SAND SEATROUT	3.33	56.3	5.33	45.33
BLUE CRAB	14.00	53.4	70.05	2917.34
FRESHWATER SHRIMP	16.33	0.0	0.00	169.23
ATLANTIC CROAKER	72.33	54.4	3.49	756.61
GROOVED SHRIMP	124.00	68.3	2.43	891.39

DENSITY OF ALL INDIVIDUALS 233.33

MEAN LENGTH OF ALL INDIVIDUALS 36.2

MEAN WEIGHT OF ALL INDIVIDUALS 17.78

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 553

TOTAL WEIGHT OF ALL INDIVIDUALS 1705.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	10.0	0.42	0.42
HOGCHOKER	0.33	50.0	4.77	4.77
SPOT	0.33	50.0	2.85	2.85
THREADFIN SHAD	0.33	63.0	3.65	3.65
GROOVED SHRIMP	1.00	43.7	0.76	2.64
BLUE CATFISH	2.67	76.2	46.31	429.22
GULF MENHADEN	5.33	49.9	2.49	39.33
BLUE CRAB	7.00	29.0	4.19	72.48
SAND SEATROUT	8.33	33.2	0.68	18.05
BAY ANCHOVY	11.67	40.1	0.89	32.88
FRESHWATER SHRIMP	55.33	0.0	0.00	650.40
ATLANTIC CROAKER	91.67	42.3	1.64	448.79

DENSITY OF ALL INDIVIDUALS 184.33

MEAN LENGTH OF ALL INDIVIDUALS

40.6

MEAN WEIGHT OF ALL INDIVIDUALS

5.72

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 137

TOTAL WEIGHT OF ALL INDIVIDUALS 414.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.00	37.7	4.21	12.64
BLUE CATFISH	1.33	11.5	32.06	117.53
GROOVED SHRIMP	1.33	45.7	0.99	3.98
SAND SEATROUT	1.33	39.0	1.05	4.20
FRESHWATER SHRIMP	7.67	0.0	0.00	76.66
BAY ANCHOVY	8.33	28.9	0.33	11.33
GULF MENHADEN	8.33	43.6	1.45	34.64
ATLANTIC CROAKER	16.33	47.9	2.59	153.50

DENSITY OF ALL INDIVIDUALS 45.67

MEAN LENGTH OF ALL INDIVIDUALS 31.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.33

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 205

TOTAL WEIGHT OF ALL INDIVIDUALS 919.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	10.0	7.51	7.51
SAND SEATROUT	0.67	29.5	0.62	1.24
BAY ANCHOVY	2.67	34.2	0.80	8.77
BLUE CRAB	3.67	81.4	33.63	340.91
GROOVED SHRIMP	7.00	63.4	1.91	42.43
GULF MENHADEN	13.67	33.4	0.69	31.78
ATLANTIC THREADFIN	14.33	55.3	3.56	171.13
ATLANTIC CROAKER	26.00	61.7	5.63	315.36

DENSITY OF ALL INDIVIDUALS 68.33

MEAN LENGTH OF ALL INDIVIDUALS 46.1

MEAN WEIGHT OF ALL INDIVIDUALS 6.79

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 422

TOTAL WEIGHT OF ALL INDIVIDUALS 170.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	136.0	39.27	39.27
GRASS SHRIMP	0.11	0.0	0.00	0.50
MOSQUITOFISH	0.11	19.0	0.13	0.13
SAND SEATROUT	0.11	50.0	2.04	2.04
SPOT	0.11	49.0	3.11	3.11
BLUE CRAB	0.64	21.8	2.42	14.55
TIDEWATER SILVERSIDE	0.85	40.1	0.98	6.60
ATLANTIC CROAKER	1.38	55.0	3.41	41.09
GULF MENHADEN	4.25	22.2	0.14	6.74
BAY ANCHOVY	37.24	24.9	0.16	56.75

DENSITY OF ALL INDIVIDUALS 44.89

MEAN LENGTH OF ALL INDIVIDUALS 41.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.17

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1261

TOTAL WEIGHT OF ALL INDIVIDUALS 514.12 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	124.0	31.64	31.64
FRESHWATER SHRIMP	0.11	0.0	0.00	0.09
GIZZARD SHAD	0.11	32.0	0.71	0.71
HARRIS' MUD CRAB	0.11	7.0	0.18	0.18
GRASS SHRIMP	0.32	0.0	0.00	0.49
BLUE CRAB	0.64	17.8	0.60	3.58
ROUGH SILVERSIDE	0.85	55.4	1.94	14.86
SAND SEATROUT	1.59	44.3	1.58	23.76
TIDEWATER SILVERSIDE	2.23	23.3	0.17	3.26
ATLANTIC CROAKER	3.83	51.8	3.02	105.22
BROWN SHRIMP	5.85	37.2	0.43	23.63
GULF MENHADEN	20.11	24.0	0.22	43.10
BAY ANCHOVY	98.29	28.4	0.28	263.60

DENSITY OF ALL INDIVIDUALS 134.14

MEAN LENGTH OF ALL INDIVIDUALS 34.3

MEAN WEIGHT OF ALL INDIVIDUALS 3.14

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 855

TOTAL WEIGHT OF ALL INDIVIDUALS 309.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	56.0	4.76	4.76
SOUTHERN FLOUNDER	0.22	47.5	1.53	3.06
STRIPED MULLET	0.22	39.0	1.78	3.55
BAY ANCHOVY	0.32	19.7	0.10	0.31
TIDEWATER SILVERSIDE	0.42	22.8	0.16	0.58
GULF MENHADEN	0.64	22.1	0.14	0.98
SAND SEATROUT	0.64	24.6	0.28	1.62
BLUE CRAB	0.96	20.3	1.07	11.35
ATLANTIC CROAKER	5.42	43.8	1.66	77.36
BROWN SHRIMP	36.06	27.6	0.21	67.76
GRASS SHRIMP	45.96	0.0	0.00	138.38

DENSITY OF ALL INDIVIDUALS 90.96

MEAN LENGTH OF ALL INDIVIDUALS 29.4

MEAN WEIGHT OF ALL INDIVIDUALS 1.06

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 582

TOTAL WEIGHT OF ALL INDIVIDUALS 313.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.11	0.0	0.00	6.97
NAKED GOBY	0.11	33.0	0.69	0.69
SKILLET FISH	0.11	9.0	0.05	0.05
BLUE CRAB	0.22	15.5	0.46	0.93
DIAMOND KILLIFISH	0.22	27.0	0.72	1.44
RED DRUM	0.22	128.0	43.61	87.21
STRIPED MULLET	0.22	42.5	3.91	7.82
BAY WHIFF	0.42	21.8	0.18	0.77
SAND SEATROUT	0.42	37.7	1.08	4.34
TIDEWATER SILVERSIDE	0.75	45.2	1.57	6.33
ATLANTIC CROAKER	4.15	35.8	1.04	40.66
BROWN SHRIMP	6.38	24.6	0.20	10.47
BAY ANCHOVY	9.79	23.0	0.14	15.23
GRASS SHRIMP	18.83	0.0	0.00	104.06
GULF MENHADEN	20.00	21.5	0.12	26.24

DENSITY OF ALL INDIVIDUALS 61.92

MEAN LENGTH OF ALL INDIVIDUALS 31.0

MEAN WEIGHT OF ALL INDIVIDUALS 3.58

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 180

TOTAL WEIGHT OF ALL INDIVIDUALS 59.94 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOT	0.11	45.0	2.16	2.16
BLUE CRAB	0.22	17.5	0.45	0.90
BROWN SHRIMP	0.54	15.8	0.05	0.31
ATLANTIC CROAKER	1.38	35.2	0.97	12.99
SAND SEATROUT	1.59	37.5	1.08	17.24
GRASS SHRIMP	2.66	0.0	0.00	11.28
BAY ANCHOVY	6.17	21.5	0.12	6.99
GULF MENHADEN	6.49	21.7	0.14	8.07

DENSITY OF ALL INDIVIDUALS 19.15

MEAN LENGTH OF ALL INDIVIDUALS 24.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.62

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 5269

TOTAL WEIGHT OF ALL INDIVIDUALS 556.45 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	15.0	0.28	0.28
BROWN SHRIMP	0.11	38.0	0.10	0.10
GRASS SHRIMP	0.22	0.0	0.00	0.34
TIDEWATER SILVERSIDE	0.95	18.1	0.07	0.67
BAY ANCHOVY	229.15	22.6	0.12	248.15
GULF MENHADEN	330.00	21.2	0.11	306.91

DENSITY OF ALL INDIVIDUALS 560.53

MEAN LENGTH OF ALL INDIVIDUALS

19.2

MEAN WEIGHT OF ALL INDIVIDUALS

0.11

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 2591

TOTAL WEIGHT OF ALL INDIVIDUALS 712.45 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	42.0	2.04	2.04
RED DRUM	0.11	112.0	26.99	26.99
SKILLET FISH	0.11	10.0	0.04	0.04
SOUTHERN FLOUNDER	0.22	37.5	0.94	1.87
PINFISH	0.42	38.3	1.95	7.67
STRIPED MULLET	0.42	22.5	0.22	0.95
BLUE CRAB	0.64	16.6	0.43	2.35
SILVER PERCH	0.64	10.4	0.04	0.19
BAY WHIFF	1.06	24.9	0.34	5.15
SPOT	1.28	45.5	2.60	31.24
TIDEWATER SILVERSIDE	1.80	39.6	1.14	19.49
SAND SEATROUT	1.81	24.1	0.32	5.77
ATLANTIC CROAKER	4.04	46.1	2.08	81.46
BROWN SHRIMP	17.55	28.1	0.24	41.25
BAY ANCHOVY	23.29	20.6	0.08	22.53
GRASS SHRIMP	107.34	0.0	0.00	371.77
GULF MENHADEN	114.79	20.5	0.08	91.69

DENSITY OF ALL INDIVIDUALS 275.63

MEAN LENGTH OF ALL INDIVIDUALS 31.7

MEAN WEIGHT OF ALL INDIVIDUALS 2.32

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 17

TOTAL WEIGHT OF ALL INDIVIDUALS 38.89 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	0.41	76.0	0.29	0.29
BAY WHIFF	0.83	33.5	0.69	1.37
BLUE CRAB	5.83	19.2	3.59	37.23

DENSITY OF ALL INDIVIDUALS 7.08

MEAN LENGTH OF ALL INDIVIDUALS 42.9

MEAN WEIGHT OF ALL INDIVIDUALS 1.52

LAVACA BAY

Benthic Sled

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 28

TOTAL WEIGHT OF ALL INDIVIDUALS 31.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	18.0	0.03	0.03
BLUE CATFISH	0.41	11.0	23.76	23.76
BLUE CRAB	0.41	14.0	0.26	0.26
GRASS SHRIMP	0.41	0.0	0.00	0.19
FRESHWATER SHRIMP	0.83	0.0	0.00	1.00
GROOVED SHRIMP	9.16	32.3	0.29	6.37

DENSITY OF ALL INDIVIDUALS 11.66

MEAN LENGTH OF ALL INDIVIDUALS 12.5

MEAN WEIGHT OF ALL INDIVIDUALS 4.06

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 15.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	20.0	0.04	0.04
ATLANTIC CROAKER	0.83	42.5	1.66	3.32
GRASS SHRIMP	5.00	0.0	0.00	3.28
GROOVED SHRIMP	25.00	25.8	0.15	8.89

DENSITY OF ALL INDIVIDUALS 31.25

MEAN LENGTH OF ALL INDIVIDUALS 22.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

LAVACA BAY

Benthic Sled

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 74

TOTAL WEIGHT OF ALL INDIVIDUALS 15.97 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.41	25.0	0.40	0.40
BAY WHIFF	1.25	24.3	0.22	0.65
TIDEWATER SILVERSIDE	1.25	13.7	0.03	0.10
BAY ANCHOVY	2.91	19.2	0.05	0.34
GRASS SHRIMP	9.16	0.0	0.00	11.47
GROOVED SHRIMP	15.84	21.2	0.08	3.01

DENSITY OF ALL INDIVIDUALS 30.83

MEAN LENGTH OF ALL INDIVIDUALS 17.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY

Benthic Sled

DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 62

TOTAL WEIGHT OF ALL INDIVIDUALS 13.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	0.83	28.5	0.18	0.35
NAKED GOBY	1.66	21.5	0.24	0.96
BLUE CRAB	7.08	14.3	0.27	4.56
GRASS SHRIMP	16.25	0.0	0.00	7.57

DENSITY OF ALL INDIVIDUALS 25.83

MEAN LENGTH OF ALL INDIVIDUALS 16.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 105

TOTAL WEIGHT OF ALL INDIVIDUALS 28.26 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.83	25.5	1.06	2.13
BAY WHIFF	0.83	26.0	0.29	0.59
GULF MENHADEN	0.83	19.0	0.05	0.09
SAND SEATROUT	2.08	21.0	0.14	0.71
GRASS SHRIMP	3.75	0.0	0.00	2.64
GROOVED SHRIMP	17.08	30.8	0.45	20.22
BAY ANCHOVY	18.33	18.3	0.04	1.88

DENSITY OF ALL INDIVIDUALS 43.75

MEAN LENGTH OF ALL INDIVIDUALS 20.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.29

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 63

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.79	0.0	0.00	0.00
CLOWN GOBY	1.79	0.0	0.00	0.00
GULF MENHADEN	3.38	0.0	0.00	0.00
ROUGH SILVERSIDE	10.24	0.0	0.00	0.00
BAY ANCHOVY	92.94	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 110.14

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 83

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.91	0.0	0.00	0.00
BLUE CRAB	2.04	0.0	0.00	0.00
GULF MENHADEN	41.69	0.0	0.00	0.00
BAY ANCHOVY	52.54	0.0	0.00	0.00
ROUGH SILVERSIDE	64.78	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 162.96

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 25

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.54	0.0	0.00	0.00
ROUGH SILVERSIDE	6.12	0.0	0.00	0.00
BAY ANCHOVY	30.48	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 38.14

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 178

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	1.92	0.0	0.00	0.00
GULF MENHADEN	2.17	0.0	0.00	0.00
WHITE SHRIMP	4.10	0.0	0.00	0.00
BROWN SHRIMP	12.05	0.0	0.00	0.00
BAY ANCHOVY	38.82	0.0	0.00	0.00
CLOWN GOBY	92.02	0.0	0.00	0.00
ROUGH SILVERSIDE	212.53	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 363.62

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 951

TOTAL WEIGHT OF ALL INDIVIDUALS 13.35 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SKILLET FISH	1.57	0.0	0.00	0.00
BROWN SHRIMP	6.30	0.0	0.00	0.00
GULF MENHADEN	33.12	0.0	0.00	1.21
BAY ANCHOVY	517.26	0.0	0.00	6.43
ROUGH SILVERSIDE	940.36	0.0	0.00	5.71

DENSITY OF ALL INDIVIDUALS 1498.61

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 50

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	1.66	0.0	0.00	0.00
CLOWN GOBY	1.86	0.0	0.00	0.00
SKILLETFISH	1.86	0.0	0.00	0.00
ROUGH SILVERSIDE	36.36	0.0	0.00	0.00
BAY ANCHOVY	45.67	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 87.43

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 68

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	2.10	0.0	0.00	0.00
CLOWN GOBY	14.07	0.0	0.00	0.00
ROUGH SILVERSIDE	21.50	0.0	0.00	0.00
BAY ANCHOVY	96.85	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 134.53

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 204

TOTAL WEIGHT OF ALL INDIVIDUALS 535.24 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	51.0	2.74	2.74
BLUE CATFISH	0.67	156.5	70.69	141.38
BLUE CRAB	0.67	26.0	1.15	2.30
FRESHWATER SHRIMP	1.00	0.0	0.00	8.77
BAY ANCHOVY	2.67	41.3	0.98	7.20
SAND SEATROUT	4.00	50.1	2.21	25.98
BROWN SHRIMP	5.67	71.1	2.74	47.19
GULF MENHADEN	53.00	45.2	1.88	299.68

DENSITY OF ALL INDIVIDUALS 68.00

MEAN LENGTH OF ALL INDIVIDUALS 55.2

MEAN WEIGHT OF ALL INDIVIDUALS 10.30

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 286

TOTAL WEIGHT OF ALL INDIVIDUALS 1669.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LADYFISH	0.33	103.0	11.08	11.08
SAND SEATROUT	0.33	49.0	2.32	2.32
FRESHWATER SHRIMP	1.00	0.0	0.00	5.01
GULF MENHADEN	2.00	39.6	1.36	8.06
BLUE CRAB	2.67	42.9	6.87	49.27
BLUE CATFISH	4.67	137.4	40.87	532.44
BAY ANCHOVY	5.33	35.3	0.66	9.98
SOUTHERN FLOUNDER	5.67	59.2	3.65	61.89
BROWN SHRIMP	25.00	71.5	3.04	227.11
ATLANTIC CROAKER	48.33	62.4	5.30	762.28

DENSITY OF ALL INDIVIDUALS 95.33

MEAN LENGTH OF ALL INDIVIDUALS 60.0

MEAN WEIGHT OF ALL INDIVIDUALS 7.52

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 1047

TOTAL WEIGHT OF ALL INDIVIDUALS 1922.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.67	61.5	4.27	8.54
SPOT	1.00	60.5	5.96	19.86
BLUE CRAB	2.00	43.2	7.15	48.98
GULF MENHADEN	3.33	59.6	4.38	21.34
SOUTHERN FLOUNDER	4.67	55.4	2.76	38.42
BAY ANCHOVY	14.67	40.3	0.87	38.14
SAND SEATROUT	23.00	52.8	2.87	200.07
ATLANTIC CROAKER	43.33	55.3	3.54	455.43
BROWN SHRIMP	256.33	57.3	1.43	1091.49

DENSITY OF ALL INDIVIDUALS 349.00

MEAN LENGTH OF ALL INDIVIDUALS

54.0

MEAN WEIGHT OF ALL INDIVIDUALS

3.69

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 493

TOTAL WEIGHT OF ALL INDIVIDUALS 2302.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	44.0	1.38	1.38
BLUE CATFISH	0.33	132.0	33.64	33.64
EURYPANOPEUS DEPRESS	0.33	18.0	1.32	1.32
HARRIS' MUD CRAB	0.33	12.0	0.24	0.24
HARDHEAD CATFISH	0.67	101.5	18.72	37.44
SPOT	0.67	70.0	9.34	18.68
HOGCHOKER	2.00	59.1	7.95	43.50
BAY ANCHOVY	4.67	37.9	1.17	17.83
BLUE CRAB	6.67	56.6	26.39	570.47
SAND SEATROUT	8.67	47.2	2.07	68.54
ATLANTIC CROAKER	54.67	60.2	4.83	794.29
BROWN SHRIMP	85.00	70.1	2.88	715.05

DENSITY OF ALL INDIVIDUALS 164.33

MEAN LENGTH OF ALL INDIVIDUALS 59.1

MEAN WEIGHT OF ALL INDIVIDUALS 9.16

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 221

TOTAL WEIGHT OF ALL INDIVIDUALS 1234.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.33	0.0	0.00	4.25
GULF MENHADEN	0.33	78.0	8.37	8.37
BAY WHIFF	0.67	56.0	2.85	5.70
BLUE CRAB	0.67	54.5	17.41	34.82
BLUE CATFISH	1.33	160.5	76.73	324.32
ATLANTIC THREADFIN	1.67	71.0	8.56	45.84
SAND SEATROUT	5.67	63.9	6.32	118.12
BROWN SHRIMP	24.00	76.2	3.69	250.85
ATLANTIC CROAKER	39.00	55.9	3.70	442.04

DENSITY OF ALL INDIVIDUALS 73.67

MEAN LENGTH OF ALL INDIVIDUALS 68.5

MEAN WEIGHT OF ALL INDIVIDUALS 14.18

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 33

TOTAL WEIGHT OF ALL INDIVIDUALS 116.68 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	44.0	5.07	5.07
SAND SEATROUT	0.67	78.5	8.95	17.90
ATLANTIC CROAKER	1.33	61.0	5.26	21.89
BROWN SHRIMP	2.00	77.3	3.58	21.45
GULF MENHADEN	3.00	56.4	3.91	38.56
BAY ANCHOVY	3.67	43.3	1.41	11.81

DENSITY OF ALL INDIVIDUALS 11.00

MEAN LENGTH OF ALL INDIVIDUALS 60.1

MEAN WEIGHT OF ALL INDIVIDUALS 4.70

LAVACA BAY

Trawl

DATA

DATE - 5 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 395

TOTAL WEIGHT OF ALL INDIVIDUALS 2684.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.33	0.0	0.00	6.59
GRASS SHRIMP	0.33	0.0	0.00	0.44
HARDHEAD CATFISH	0.33	140.0	42.37	42.37
PINFISH	0.33	64.0	8.69	8.69
ATLANTIC THREADFIN	0.67	82.0	12.82	25.63
SPOT	1.00	69.0	8.12	24.35
SILVER PERCH	1.33	25.7	0.48	2.05
BLUE CRAB	2.33	90.6	66.11	582.96
SAND SEATROUT	10.33	48.0	1.99	55.16
GULF MENHADEN	19.00	83.0	9.58	572.83
BROWN SHRIMP	24.67	76.0	3.37	243.34
ATLANTIC CROAKER	71.00	63.1	5.11	1119.95

DENSITY OF ALL INDIVIDUALS 131.67

MEAN LENGTH OF ALL INDIVIDUALS

61.8

MEAN WEIGHT OF ALL INDIVIDUALS

13.22

LAVACA BAY

Seine

DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 375

TOTAL WEIGHT OF ALL INDIVIDUALS 186.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.11	103.0	0.91	0.91
SILVER PERCH	0.11	28.0	0.54	0.54
ATLANTIC NEEDLEFISH	0.22	63.0	0.38	0.76
STRIPED MULLET	0.32	65.0	7.27	21.82
SPOT	0.53	62.6	6.47	32.35
ATLANTIC CROAKER	0.54	64.7	5.90	29.55
BLUE CRAB	0.75	10.7	0.07	0.49
BROWN SHRIMP	0.75	68.7	2.48	17.62
GULF MENHADEN	0.75	25.6	0.29	2.00
TIDEWATER SILVERSIDE	5.85	25.3	0.24	12.12
BAY ANCHOVY	30.00	23.2	0.20	67.94

DENSITY OF ALL INDIVIDUALS 39.89

MEAN LENGTH OF ALL INDIVIDUALS 49.1

MEAN WEIGHT OF ALL INDIVIDUALS 2.25

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 596

TOTAL WEIGHT OF ALL INDIVIDUALS 1092.99 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.11	0.0	0.00	0.77
STRIPED MULLET	0.11	65.0	7.80	7.80
ATLANTIC CROAKER	0.22	65.0	5.72	11.43
LADYFISH	0.32	62.2	2.75	9.70
GULF MENHADEN	0.53	25.5	0.29	1.40
BLUE CRAB	1.81	10.6	0.07	1.04
BLUE CATFISH	2.12	105.1	18.57	380.09
ROUGH SILVERSIDE	5.74	43.4	1.15	58.37
BROWN SHRIMP	10.00	82.0	4.15	390.12
BAY ANCHOVY	42.45	33.9	0.56	232.27

DENSITY OF ALL INDIVIDUALS 63.40

MEAN LENGTH OF ALL INDIVIDUALS 49.3

MEAN WEIGHT OF ALL INDIVIDUALS 4.11

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1475

TOTAL WEIGHT OF ALL INDIVIDUALS 1071.94 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOTTED SEATROUT	0.22	9.0	0.01	0.02
TIDEWATER SILVERSIDE	0.22	20.0	0.08	0.16
ROUGH SILVERSIDE	0.32	35.3	0.56	1.68
ATLANTIC CROAKER	0.64	51.0	2.73	17.02
HARRIS' MUD CRAB	0.64	6.0	0.14	0.81
NAKED GOBY	1.06	18.8	0.14	1.26
GRASS SHRIMP	1.70	0.0	0.00	4.89
SAND SEATROUT	2.13	33.9	0.71	14.43
SILVER PERCH	2.98	25.4	0.44	12.44
BLUE CRAB	3.20	10.5	0.05	1.59
BROWN SHRIMP	22.76	49.7	1.13	204.86
BAY ANCHOVY	53.72	23.0	0.16	65.89
GULF MENHADEN	67.34	38.6	1.12	746.89

DENSITY OF ALL INDIVIDUALS 156.92

MEAN LENGTH OF ALL INDIVIDUALS

24.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.56

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 2204

TOTAL WEIGHT OF ALL INDIVIDUALS 351.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.11	69.0	7.99	7.99
HARRIS' MUD CRAB	0.21	6.5	0.10	0.20
GULF MENHADEN	0.64	27.3	0.41	3.66
BROWN SHRIMP	0.85	33.6	0.45	4.25
ROUGH SILVERSIDE	4.15	32.0	0.58	13.75
BLUE CRAB	5.43	9.2	0.05	2.46
GRASS SHRIMP	7.55	0.0	0.00	30.60
BAY ANCHOVY	215.53	23.7	0.20	288.30

DENSITY OF ALL INDIVIDUALS 234.47

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 1.22

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 260

TOTAL WEIGHT OF ALL INDIVIDUALS 54.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.11	39.0	1.44	1.44
GULF MENHADEN	0.11	52.0	2.50	2.50
SAND SEATROUT	0.22	55.0	2.68	5.63
SKILLET FISH	0.22	19.5	0.28	0.56
GRASS SHRIMP	0.32	0.0	0.00	1.34
ROUGH SILVERSIDE	0.42	21.0	0.13	0.53
BROWN SHRIMP	1.49	38.6	0.91	12.68
BAY ANCHOVY	11.17	27.0	0.26	26.41
BLUE CRAB	13.62	8.1	0.03	3.86

DENSITY OF ALL INDIVIDUALS 27.66

MEAN LENGTH OF ALL INDIVIDUALS 28.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.91

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1081

TOTAL WEIGHT OF ALL INDIVIDUALS 313.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOTFIN MOJARRA	0.11	11.0	0.02	0.02
ATLANTIC CROAKER	0.32	75.3	9.27	27.80
GULF PIPEFISH	0.32	86.0	0.52	1.43
LADYFISH	0.32	84.5	8.39	25.81
BLUE CRAB	1.17	16.5	3.18	50.77
GULF MENHADEN	1.17	23.2	0.24	2.60
GRASS SHRIMP	2.02	0.0	0.00	6.39
SILVER PERCH	2.23	29.5	0.66	13.64
BROWN SHRIMP	9.36	42.4	0.81	75.40
TIDEWATER SILVERSIDE	12.55	25.3	0.22	18.27
BAY ANCHOVY	85.43	22.0	0.13	91.12

DENSITY OF ALL INDIVIDUALS 115.00

MEAN LENGTH OF ALL INDIVIDUALS

37.8

MEAN WEIGHT OF ALL INDIVIDUALS

2.13

LAVACA BAY

Seine

DATA

DATE - 7 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1558

TOTAL WEIGHT OF ALL INDIVIDUALS 477.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LADYFISH	0.11	32.0	0.08	0.08
PINFISH	0.11	56.0	5.48	5.48
SPOTTED SEATROUT	0.11	28.0	0.39	0.39
STRIPED ANCHOVY	0.11	40.0	0.69	0.69
BLUE CRAB	0.21	12.0	0.07	0.13
GULF MENHADEN	0.32	21.0	0.14	0.43
STRIPED MULLET	0.32	68.3	8.26	24.79
ROUGH SILVERSIDE	0.64	48.7	2.34	14.05
ATLANTIC CROAKER	0.96	62.6	4.91	48.15
SPOT	1.17	58.7	5.43	54.77
GRASS SHRIMP	1.91	0.0	0.00	4.27
BROWN SHRIMP	14.58	50.1	1.44	188.20
BAY ANCHOVY	145.21	20.7	0.09	135.93

DENSITY OF ALL INDIVIDUALS 165.74

MEAN LENGTH OF ALL INDIVIDUALS 38.3

MEAN WEIGHT OF ALL INDIVIDUALS 2.25

LAVACA BAY Benthic Sled DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 17

TOTAL WEIGHT OF ALL INDIVIDUALS 8.29 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.25	18.3	0.07	0.22
BROWN SHRIMP	1.25	65.7	2.31	7.07
NAKED GOBY	2.08	13.2	0.06	0.27
BLUE CRAB	2.50	11.6	0.14	0.73

DENSITY OF ALL INDIVIDUALS 7.08

MEAN LENGTH OF ALL INDIVIDUALS 27.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.64

LAVACA BAY Benthic Sled DATA

DATE - 4 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 8.93 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.41	0.0	0.00	0.61
BLUE CRAB	0.83	9.5	0.06	0.12
NAKED GOBY	1.67	14.8	0.09	0.35
BROWN SHRIMP	2.08	53.9	1.30	7.85

DENSITY OF ALL INDIVIDUALS 5.00

MEAN LENGTH OF ALL INDIVIDUALS 19.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.36

LAVACA BAY Benthic Sled DATA

DATE - 7 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 57

TOTAL WEIGHT OF ALL INDIVIDUALS 16.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.83	0.0	0.00	0.04
BAY ANCHOVY	1.25	19.5	0.07	0.18
BLUE CRAB	2.50	11.4	0.08	0.37
NAKED GOBY	3.33	11.8	0.04	0.36
BROWN SHRIMP	15.84	30.8	0.45	15.05

DENSITY OF ALL INDIVIDUALS 23.76

MEAN LENGTH OF ALL INDIVIDUALS 14.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY Benthic Sled DATA

DATE - 6 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 151

TOTAL WEIGHT OF ALL INDIVIDUALS 81.02 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	66.0	5.03	5.03
BAY WHIFF	0.41	44.0	1.55	1.55
BLACK DRUM	0.41	40.0	1.39	1.39
CHAIN PIPEFISH	0.41	62.0	0.07	0.07
NAKED GOBY	0.41	21.0	0.19	0.19
SPOTFIN MOJARRA	0.41	12.0	0.03	0.03
STONE CRAB	0.41	12.0	0.19	0.19
WHITE SHRIMP	0.41	8.0	0.01	0.01
SKILLETFISH	0.83	21.0	0.29	0.57
HARRIS' MUD CRAB	2.08	6.9	0.13	0.71
BLUE CRAB	9.16	12.7	0.51	16.98
BROWN SHRIMP	22.50	40.8	0.61	29.56
GRASS SHRIMP	25.00	0.0	0.00	24.74

DENSITY OF ALL INDIVIDUALS 62.91

MEAN LENGTH OF ALL INDIVIDUALS 26.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.77

LAVACA BAY Benthic Sled DATA

DATE - 5 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 6

TOTAL WEIGHT OF ALL INDIVIDUALS 6.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	30.0	0.34	0.34
BROWN SHRIMP	0.83	74.0	3.12	6.23
BLUE CRAB	1.25	9.0	0.07	0.21

DENSITY OF ALL INDIVIDUALS 2.50
MEAN LENGTH OF ALL INDIVIDUALS 37.7
MEAN WEIGHT OF ALL INDIVIDUALS 1.17

LAVACA BAY

Benthic Sled

DATA

DATE - 5 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 34

TOTAL WEIGHT OF ALL INDIVIDUALS 65.79 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	20.0	0.08	0.08
GULF MENHADEN	0.41	26.0	0.31	0.31
WHITE SHRIMP	0.83	36.5	0.31	0.62
BLUE CRAB	1.25	31.8	12.61	50.26
GRASS SHRIMP	1.25	0.0	0.00	0.80
NAKED GOBY	1.66	14.0	0.07	0.27
BROWN SHRIMP	8.34	36.6	0.61	13.45

DENSITY OF ALL INDIVIDUALS 14.17

MEAN LENGTH OF ALL INDIVIDUALS 23.6

MEAN WEIGHT OF ALL INDIVIDUALS 2.00

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 81

TOTAL WEIGHT OF ALL INDIVIDUALS 144.77 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
INSHORE LIZARDFISH	0.41	44.0	0.72	0.72
LEAST PUFFER	0.41	24.0	0.75	0.75
BLUE CRAB	0.83	89.5	46.48	92.97
BAY ANCHOVY	1.66	19.5	0.06	0.24
GRASS SHRIMP	2.50	0.0	0.00	1.22
BROWN SHRIMP	27.91	34.5	0.73	48.87

DENSITY OF ALL INDIVIDUALS 33.75

MEAN LENGTH OF ALL INDIVIDUALS 35.3

MEAN WEIGHT OF ALL INDIVIDUALS 8.12

LAVACA BAY Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 38

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.68	3.0	0.00	0.00
BAY ANCHOVY	9.18	14.7	0.00	0.00
BLUE CRAB	47.25	9.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 58.10

MEAN LENGTH OF ALL INDIVIDUALS 9.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 142

TOTAL WEIGHT OF ALL INDIVIDUALS 2.11 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	4.27	14.0	0.00	0.41
STRIPED BLENNY	4.68	3.0	0.00	0.00
ROUGH SILVERSIDE	10.51	4.8	0.00	0.00
CLOWN GOBY	66.88	4.3	0.00	0.03
BAY ANCHOVY	101.06	13.5	0.00	1.67

DENSITY OF ALL INDIVIDUALS 187.40

MEAN LENGTH OF ALL INDIVIDUALS

7.9

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 22

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	3.59	11.3	0.00	0.00
CLOWN GOBY	9.92	5.6	0.00	0.00
BAY ANCHOVY	12.51	16.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 26.02

MEAN LENGTH OF ALL INDIVIDUALS 11.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 1581

TOTAL WEIGHT OF ALL INDIVIDUALS 76.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	2.47	5.0	0.00	0.03
WHITE SHRIMP	2.60	10.0	0.00	0.01
STRIPED BLENNY	3.90	3.0	0.00	0.01
ROUGH SILVERSIDE	4.95	4.5	0.00	0.00
BLUE CRAB	5.07	7.0	0.00	0.04
BROWN SHRIMP	12.49	27.9	0.00	3.19
CLOWN GOBY	1039.97	4.6	0.00	0.59
BAY ANCHOVY	1525.73	18.5	0.00	72.38

DENSITY OF ALL INDIVIDUALS 2597.17

MEAN LENGTH OF ALL INDIVIDUALS

10.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 1383

TOTAL WEIGHT OF ALL INDIVIDUALS 78.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.93	51.0	0.00	2.75
WHITE SHRIMP	1.93	7.0	0.00	0.00
BROWN SHRIMP	9.17	20.0	0.00	2.73
BLUE CRAB	39.62	8.9	0.00	0.75
ROUGH SILVERSIDE	74.92	18.5	0.00	4.77
CLOWN GOBY	601.54	5.4	0.00	0.63
BAY ANCHOVY	1567.58	18.9	0.00	66.58

DENSITY OF ALL INDIVIDUALS 2296.70

MEAN LENGTH OF ALL INDIVIDUALS

18.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 29

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.30	4.0	0.00	0.00
STRIPED BLENNY	4.13	3.5	0.00	0.00
BLUE CRAB	5.43	8.0	0.00	0.00
CLOWN GOBY	8.27	4.4	0.00	0.00
BAY ANCHOVY	11.64	10.6	0.00	0.00

DENSITY OF ALL INDIVIDUALS 30.77

MEAN LENGTH OF ALL INDIVIDUALS

6.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 4 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 797

TOTAL WEIGHT OF ALL INDIVIDUALS 33.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	2.33	7.0	0.00	0.00
BLUE CRAB	9.09	6.0	0.00	0.12
TIDEWATER SILVERSIDE	17.76	9.1	0.00	0.00
BROWN SHRIMP	23.14	11.2	0.00	0.07
WHITE SHRIMP	27.69	6.7	0.00	0.00
CLOWN GOBY	224.43	5.4	0.00	0.29
BAY ANCHOVY	724.32	17.5	0.00	33.07

DENSITY OF ALL INDIVIDUALS 1028.76

MEAN LENGTH OF ALL INDIVIDUALS

9.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB45

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 167

TOTAL WEIGHT OF ALL INDIVIDUALS 7522.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	37.0	0.62	0.62
GULF MENHADEN	0.67	65.0	6.06	12.12
FRESHWATER SHRIMP	1.00	0.0	0.00	11.66
BROWN SHRIMP	1.33	59.0	1.36	5.32
SAND SEATROUT	1.67	67.6	5.53	25.03
ATLANTIC CROAKER	2.67	79.6	10.59	74.28
BLUE CRAB	4.33	21.0	1.21	24.33
WHITE SHRIMP	17.33	62.0	1.78	82.50
BLUE CATFISH	26.33	173.3	90.71	7286.58

DENSITY OF ALL INDIVIDUALS 55.67

MEAN LENGTH OF ALL INDIVIDUALS 62.7

MEAN WEIGHT OF ALL INDIVIDUALS 13.09

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB603

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 212

TOTAL WEIGHT OF ALL INDIVIDUALS 2619.11 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	103.0	16.94	16.94
BLUE CRAB	0.33	75.0	23.21	23.21
STRIPED MULLET	0.33	108.0	39.10	39.10
SAND SEATROUT	2.67	69.0	6.37	58.04
SOUTHERN FLOUNDER	3.67	81.7	9.50	103.83
BAY ANCHOVY	4.67	38.0	0.76	10.78
GULF MENHADEN	7.67	39.3	1.38	31.78
BROWN SHRIMP	9.33	55.3	1.40	39.05
WHITE SHRIMP	9.67	75.0	3.06	89.63
BLUE CATFISH	10.33	141.8	43.69	1347.76
ATLANTIC CROAKER	21.67	83.2	13.20	858.99

DENSITY OF ALL INDIVIDUALS 70.67

MEAN LENGTH OF ALL INDIVIDUALS 79.0

MEAN WEIGHT OF ALL INDIVIDUALS 14.42

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 394

TOTAL WEIGHT OF ALL INDIVIDUALS 1159.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.33	131.0	32.53	32.53
GAFFTOPSAIL CATFISH	0.33	56.0	2.72	2.72
HARDHEAD CATFISH	0.33	111.0	24.16	24.16
SOUTHERN FLOUNDER	1.67	73.9	7.44	40.48
BLUE CRAB	2.33	39.3	9.50	72.10
BAY ANCHOVY	3.00	45.7	1.41	10.19
HOGCHOKER	4.33	26.2	0.84	11.26
SAND SEATROUT	5.00	68.1	6.95	104.27
ATLANTIC CROAKER	13.67	74.6	8.59	353.25
GULF MENHADEN	17.33	43.8	1.69	93.28
WHITE SHRIMP	28.00	62.1	2.08	168.35
BROWN SHRIMP	55.00	54.0	1.51	247.36

DENSITY OF ALL INDIVIDUALS 131.33

MEAN LENGTH OF ALL INDIVIDUALS

65.5

MEAN WEIGHT OF ALL INDIVIDUALS

8.29

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB623

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 391

TOTAL WEIGHT OF ALL INDIVIDUALS 1860.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	77.0	7.65	7.65
FRESHWATER SHRIMP	0.33	0.0	0.00	1.77
NAKED GOBY	0.33	28.0	0.59	0.59
HARRIS' MUD CRAB	0.67	8.5	0.37	0.74
HOGCHOKER	0.67	33.5	2.50	5.00
GAFTOPSAIL CATFISH	1.00	74.7	7.65	23.49
BLUE CRAB	1.33	99.0	97.58	390.32
PINFISH	1.67	68.7	11.82	58.00
SPOT	1.67	76.5	9.91	44.67
BAY ANCHOVY	2.67	43.2	1.17	9.42
HARDHEAD CATFISH	2.67	110.8	33.76	365.60
SAND SEATROUT	2.67	69.0	6.31	49.82
ATLANTIC CROAKER	6.67	72.9	8.97	179.00
WHITE SHRIMP	25.33	64.5	2.36	180.37
BROWN SHRIMP	82.33	64.5	2.35	544.04

DENSITY OF ALL INDIVIDUALS 130.33

MEAN LENGTH OF ALL INDIVIDUALS

59.4

MEAN WEIGHT OF ALL INDIVIDUALS

12.87

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB633

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 400

TOTAL WEIGHT OF ALL INDIVIDUALS 1689.56 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	70.0	5.76	5.76
GAFFTOPSAIL CATFISH	0.33	72.0	6.12	6.12
SHEEPSHEAD	0.33	110.0	42.77	42.77
STRIPED MULLET	0.67	82.0	15.44	30.88
BAY ANCHOVY	1.00	36.0	0.68	2.25
HOGCHOKER	1.00	27.3	1.00	3.66
SAND SEATROUT	2.67	49.0	2.11	17.53
HARDHEAD CATFISH	3.00	85.0	13.83	118.66
SPOT	10.00	77.7	13.97	417.24
ATLANTIC CROAKER	27.67	67.6	6.59	548.88
BROWN SHRIMP	28.33	62.5	2.06	182.40
WHITE SHRIMP	58.00	61.3	1.84	313.41

DENSITY OF ALL INDIVIDUALS 133.33

MEAN LENGTH OF ALL INDIVIDUALS

66.7

MEAN WEIGHT OF ALL INDIVIDUALS

9.35

LAVACA BAY

Trawl

DATA

DATE - 16 Jul 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 508

TOTAL WEIGHT OF ALL INDIVIDUALS 3108.98 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.33	34.0	1.07	1.07
FRESHWATER SHRIMP	0.67	0.0	0.00	13.19
BAY WHIFF	1.67	83.2	10.47	48.18
GULF MENHADEN	2.00	45.9	2.00	12.06
ATLANTIC CROAKER	3.33	76.9	9.67	102.29
BLUE CRAB	8.00	47.6	16.22	392.20
SAND SEATROUT	13.33	64.1	5.17	212.80
BLUE CATFISH	17.00	128.6	33.84	1766.33
BAY ANCHOVY	18.67	35.6	0.63	32.67
BROWN SHRIMP	32.33	54.1	1.66	157.19
WHITE SHRIMP	72.00	60.2	1.86	371.00

DENSITY OF ALL INDIVIDUALS 169.33

MEAN LENGTH OF ALL INDIVIDUALS 57.3

MEAN WEIGHT OF ALL INDIVIDUALS 7.51

LAVACA BAY

Trawl

DATA

DATE - 17 Jul 1985 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 230

TOTAL WEIGHT OF ALL INDIVIDUALS 1386.17 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED MULLET	0.67	94.0	20.55	41.11
HARDHEAD CATFISH	1.00	120.3	27.85	83.55
BLUE CRAB	2.00	71.3	33.20	199.17
LEAST PUFFER	3.00	29.9	1.68	14.69
SAND SEATROUT	3.67	58.1	3.54	40.29
GAFFTOPSAIL CATFISH	8.00	77.6	8.10	193.39
WHITE SHRIMP	13.33	77.0	3.19	125.78
BAY ANCHOVY	13.67	42.9	1.12	43.21
BROWN SHRIMP	14.00	68.2	2.91	128.52
ATLANTIC CROAKER	17.33	77.1	9.90	516.46

DENSITY OF ALL INDIVIDUALS 76.67

MEAN LENGTH OF ALL INDIVIDUALS 71.7

MEAN WEIGHT OF ALL INDIVIDUALS 11.20

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB45

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 572

TOTAL WEIGHT OF ALL INDIVIDUALS 194.94 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	86.0	14.85	14.85
BLUE CATFISH	0.11	125.0	33.25	33.25
BROWN SHRIMP	0.11	14.0	0.02	0.02
GRASS SHRIMP	0.11	0.0	0.00	0.09
HARRIS' MUD CRAB	0.11	6.0	0.12	0.12
STRIPED MULLET	0.11	73.0	11.12	11.12
BLUE CRAB	0.21	6.5	0.02	0.04
NAKED GOBY	0.21	11.5	0.04	0.08
SILVER JENNY	0.32	33.3	1.45	4.34
WHITE SHRIMP	0.75	32.7	0.56	3.12
GULF MENHADEN	1.27	32.0	0.67	8.05
TIDEWATER SILVERSIDE	3.41	37.2	0.69	21.98
BAY ANCHOVY	54.04	24.8	0.19	97.88

DENSITY OF ALL INDIVIDUALS 60.84

MEAN LENGTH OF ALL INDIVIDUALS 37.1

MEAN WEIGHT OF ALL INDIVIDUALS 4.84

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB603

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 869

TOTAL WEIGHT OF ALL INDIVIDUALS 676.02 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SILVER PERCH	0.11	60.0	5.21	5.21
BLUE CATFISH	0.21	104.5	16.78	33.56
NAKED GOBY	0.22	15.5	0.07	0.15
BLUE CRAB	0.32	13.3	0.16	0.40
GRASS SHRIMP	0.32	0.0	0.00	1.31
STRIPED MULLET	0.32	75.5	6.45	21.96
SPOTTED SEATROUT	0.43	57.0	3.21	12.85
WHITE SHRIMP	2.23	62.8	2.96	56.80
TIDEWATER SILVERSIDE	4.36	33.4	0.47	19.55
BROWN SHRIMP	23.94	59.6	1.63	408.44
BAY ANCHOVY	60.00	26.3	0.22	115.79

DENSITY OF ALL INDIVIDUALS 92.45

MEAN LENGTH OF ALL INDIVIDUALS

46.2

MEAN WEIGHT OF ALL INDIVIDUALS

3.38

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 1801

TOTAL WEIGHT OF ALL INDIVIDUALS 443.83 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	4.0	0.02	0.02
SAND SEATROUT	0.22	38.5	0.91	1.82
STRIPED MULLET	0.22	71.0	9.49	18.99
SILVER PERCH	0.32	35.0	1.41	4.22
SPOTTED SEATROUT	0.43	46.7	1.68	6.73
NAKED GOBY	0.53	12.0	0.04	0.26
BLUE CRAB	0.54	31.6	17.71	105.99
TIDEWATER SILVERSIDE	2.44	34.3	0.52	12.20
BAY ANCHOVY	2.87	24.8	0.27	11.78
BROWN SHRIMP	12.24	38.4	0.54	54.54
GRASS SHRIMP	52.98	0.0	0.00	135.50
WHITE SHRIMP	118.72	20.3	0.09	91.78

DENSITY OF ALL INDIVIDUALS 191.60

MEAN LENGTH OF ALL INDIVIDUALS

29.7

MEAN WEIGHT OF ALL INDIVIDUALS

2.72

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1064

TOTAL WEIGHT OF ALL INDIVIDUALS 552.79 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	10.0	0.04	0.04
SHEEPSHEAD	0.11	98.0	25.27	25.27
SPOTFIN MOJARRA	0.11	51.0	3.26	3.26
TIDEWATER SILVERSIDE	0.11	36.0	0.59	0.59
ATLANTIC CROAKER	0.32	78.0	10.78	36.11
BLUE CRAB	0.32	53.0	16.75	50.26
GULF KILLIFISH	0.32	54.7	4.99	15.74
GRASS SHRIMP	1.91	0.0	0.00	6.84
WHITE SHRIMP	4.25	36.2	0.58	30.75
BROWN SHRIMP	17.45	54.6	1.51	234.63
BAY ANCHOVY	88.19	24.1	0.18	149.30

DENSITY OF ALL INDIVIDUALS 113.19

MEAN LENGTH OF ALL INDIVIDUALS

45.1

MEAN WEIGHT OF ALL INDIVIDUALS

5.81

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB633

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 35

TOTAL WEIGHT OF ALL INDIVIDUALS 31.05 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	7.0	0.02	0.02
SPOTTED SEATROUT	0.11	108.0	23.15	23.15
BROWN SHRIMP	0.85	33.7	0.32	2.47
GRASS SHRIMP	2.66	0.0	0.00	5.41

DENSITY OF ALL INDIVIDUALS 3.72

MEAN LENGTH OF ALL INDIVIDUALS 37.2

MEAN WEIGHT OF ALL INDIVIDUALS 5.87

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 197

TOTAL WEIGHT OF ALL INDIVIDUALS 299.07 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	5.0	0.01	0.01
SPOTFIN MOJARRA	0.11	44.0	1.99	1.99
STAR DRUM	0.11	9.0	0.01	0.01
NAKED GOBY	0.22	11.0	0.03	0.06
SPOTTED SEATROUT	0.42	25.0	0.84	5.01
GRASS SHRIMP	1.17	0.0	0.00	3.59
BROWN SHRIMP	1.38	38.7	0.62	8.21
STRIPED MULLET	2.34	69.4	9.26	219.42
TIDEWATER SILVERSIDE	2.97	38.6	0.75	21.97
BAY ANCHOVY	5.21	31.9	0.45	22.25
WHITE SHRIMP	6.92	19.7	0.22	16.55

DENSITY OF ALL INDIVIDUALS 20.95

MEAN LENGTH OF ALL INDIVIDUALS

26.6

MEAN WEIGHT OF ALL INDIVIDUALS

1.29

LAVACA BAY

Seine

DATA

DATE - 17 Jul 1985 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 294

TOTAL WEIGHT OF ALL INDIVIDUALS 278.30 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	89.0	14.83	14.83
GULF MENHADEN	0.11	45.0	1.64	1.64
LEAST PUFFER	0.11	39.0	2.79	2.79
PINFISH	0.11	80.0	17.55	17.55
SAND SEATROUT	0.11	31.0	0.53	0.53
STRIPED MULLET	0.11	68.0	7.16	7.16
SPOT	0.22	73.0	10.04	20.08
HARDHEAD CATFISH	0.32	112.7	25.51	76.52
GRASS SHRIMP	2.13	0.0	0.00	5.05
WHITE SHRIMP	2.44	41.9	1.04	24.70
TIDEWATER SILVERSIDE	4.36	34.1	0.52	21.20
BROWN SHRIMP	5.00	48.5	1.19	58.05
BAY ANCHOVY	16.17	24.6	0.19	28.20

DENSITY OF ALL INDIVIDUALS 31.27

MEAN LENGTH OF ALL INDIVIDUALS 52.8

MEAN WEIGHT OF ALL INDIVIDUALS 6.38

LAVACA BAY

Benthic Sled

DATA

DATE - 17 Jul 1985 STATION - LAB45

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 48

TOTAL WEIGHT OF ALL INDIVIDUALS 113.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.41	12.0	0.05	0.05
BROWN SHRIMP	0.41	12.0	0.01	0.01
GRASS SHRIMP	0.41	0.0	0.00	0.45
GULF PIPEFISH	0.83	66.0	0.20	0.39
HARRIS' MUD CRAB	0.83	4.0	0.06	0.12
BAY ANCHOVY	2.08	23.8	0.22	0.65
WHITE SHRIMP	2.91	30.0	0.39	2.71
NAKED GOBY	5.83	11.7	0.06	1.04
BLUE CRAB	6.25	17.9	5.04	107.58

DENSITY OF ALL INDIVIDUALS 19.98

MEAN LENGTH OF ALL INDIVIDUALS 19.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.67

LAVACA BAY Benthic Sled DATA

DATE - 17 Jul 1985 STATION - LAB603

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 31

TOTAL WEIGHT OF ALL INDIVIDUALS 15.42 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	23.0	0.13	0.13
BLUE CRAB	0.83	7.5	0.02	0.04
GRASS SHRIMP	1.66	0.0	0.00	0.94
NAKED GOBY	1.66	13.5	0.06	0.25
WHITE SHRIMP	3.75	20.8	0.08	0.66
BROWN SHRIMP	4.58	50.0	1.23	13.40

DENSITY OF ALL INDIVIDUALS 12.91

MEAN LENGTH OF ALL INDIVIDUALS 19.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.25

LAVACA BAY Benthic Sled DATA

DATE - 17 Jul 1985 STATION - LAB613

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 278

TOTAL WEIGHT OF ALL INDIVIDUALS 20.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	7.0	0.02	0.02
SPOTTED SEATROUT	0.41	48.0	1.59	1.59
BAY ANCHOVY	0.83	17.0	0.04	0.08
NAKED GOBY	2.08	15.4	0.14	0.71
BLUE CRAB	2.91	7.7	0.04	0.51
GRASS SHRIMP	12.91	0.0	0.00	4.03
BROWN SHRIMP	15.00	22.7	0.16	6.56
WHITE SHRIMP	81.25	14.8	0.04	7.24

DENSITY OF ALL INDIVIDUALS 115.83

MEAN LENGTH OF ALL INDIVIDUALS 16.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.25

LAVACA BAY Benthic Sled DATA

DATE - 17 Jul 1985 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 133

TOTAL WEIGHT OF ALL INDIVIDUALS 651.26 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	80.0	8.95	8.95
LINED SOLE	0.41	18.0	0.22	0.22
SPOTTED SEATROUT	0.41	7.0	0.01	0.01
BAY ANCHOVY	0.83	20.0	0.08	0.16
BLUE CRAB	0.83	8.0	0.04	0.08
NAKED GOBY	1.66	14.0	0.07	0.26
HARRIS' MUD CRAB	2.92	4.2	0.02	0.12
SILVER PERCH	8.75	10.3	0.04	0.94
BROWN SHRIMP	12.50	30.7	0.55	639.92
WHITE SHRIMP	26.66	10.4	0.01	0.60

DENSITY OF ALL INDIVIDUALS 55.42

MEAN LENGTH OF ALL INDIVIDUALS 20.3

MEAN WEIGHT OF ALL INDIVIDUALS 1.00

LAVACA BAY Benthic Sled DATA

DATE - 16 Jul 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 229

TOTAL WEIGHT OF ALL INDIVIDUALS 44.45 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOTTED SEATROUT	0.41	11.0	0.02	0.02
BLUE CRAB	1.25	6.5	0.03	0.07
WHITE SHRIMP	3.33	15.6	0.06	0.49
BROWN SHRIMP	26.25	27.7	0.19	12.12
GRASS SHRIMP	64.16	0.0	0.00	31.75

DENSITY OF ALL INDIVIDUALS 95.41

MEAN LENGTH OF ALL INDIVIDUALS 12.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.06

LAVACA BAY Benthic Sled DATA

DATE - 17 Jul 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 211

TOTAL WEIGHT OF ALL INDIVIDUALS 3.85 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.41	0.0	0.00	0.36
FRESHWATER SHRIMP	0.83	0.0	0.00	0.10
CLOWN GOBY	1.25	15.3	0.05	0.14
BROWN SHRIMP	1.67	14.8	0.02	0.08
BLUE CRAB	2.08	6.7	0.02	0.07
HARRIS' MUD CRAB	3.75	4.3	0.05	0.48
NAKED GOBY	6.66	13.2	0.06	0.88
WHITE SHRIMP	71.25	11.6	0.02	1.74

DENSITY OF ALL INDIVIDUALS 87.91

MEAN LENGTH OF ALL INDIVIDUALS

8.2

MEAN WEIGHT OF ALL INDIVIDUALS

0.03

LAVACA BAY Benthic Sled DATA

DATE - 16 Jul 1985 STATION - LAB85

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 83

TOTAL WEIGHT OF ALL INDIVIDUALS 27.75 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	12.0	0.14	0.14
BAY ANCHOVY	1.25	21.5	0.11	0.35
WHITE SHRIMP	3.33	17.0	0.04	0.34
GRASS SHRIMP	14.16	0.0	0.00	10.36
BROWN SHRIMP	15.41	32.3	0.45	16.56

DENSITY OF ALL INDIVIDUALS 34.58

MEAN LENGTH OF ALL INDIVIDUALS 16.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 38

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.81	18.0	0.00	0.00
GULF MENHADEN	1.81	37.0	0.00	0.00
CLOWN GOBY	3.58	4.0	0.00	0.00
ROUGH SILVERSIDE	8.86	4.4	0.00	0.00
BAY ANCHOVY	51.72	14.7	0.00	0.00

DENSITY OF ALL INDIVIDUALS 67.78

MEAN LENGTH OF ALL INDIVIDUALS 15.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 29

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.54	15.0	0.00	0.00
BAY ANCHOVY	1.87	13.4	0.00	0.00
ROUGH SILVERSIDE	28.53	9.3	0.00	0.00

DENSITY OF ALL INDIVIDUALS 31.94

MEAN LENGTH OF ALL INDIVIDUALS 12.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB613

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 6

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.86	7.0	0.00	0.00
ROUGH SILVERSIDE	1.92	7.0	0.00	0.00
BAY ANCHOVY	7.58	8.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 11.38

MEAN LENGTH OF ALL INDIVIDUALS 7.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB623

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 10

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.82	13.0	0.00	0.00
BAY ANCHOVY	5.04	11.0	0.00	0.00
ROUGH SILVERSIDE	5.04	5.0	0.00	0.00
WHITE SHRIMP	5.46	9.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 17.35

MEAN LENGTH OF ALL INDIVIDUALS 9.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 3

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
STRIPED BLENNY	1.92	5.0	0.00	0.00
CLOWN GOBY	2.14	4.0	0.00	0.00
ROUGH SILVERSIDE	2.14	8.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 6.20

MEAN LENGTH OF ALL INDIVIDUALS 5.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 9

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.59	4.0	0.00	0.00
ROUGH SILVERSIDE	3.73	7.0	0.00	0.00
BAY ANCHOVY	5.04	7.5	0.00	0.00
STRIPED BLENNY	5.04	3.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 15.41

MEAN LENGTH OF ALL INDIVIDUALS 5.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 16 Jul 1985 STATION - LAB85

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	0.29	4.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 0.29

MEAN LENGTH OF ALL INDIVIDUALS 4.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB45

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 144

TOTAL WEIGHT OF ALL INDIVIDUALS 271.65 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	83.0	12.16	12.16
BROWN SHRIMP	0.33	62.0	1.89	1.89
GAFFTOPSAIL CATFISH	0.33	89.0	11.69	11.69
GULF MENHADEN	1.67	54.6	3.11	18.71
WHITE SHRIMP	13.33	82.1	4.29	191.03
BAY ANCHOVY	32.00	31.4	0.41	36.17

DENSITY OF ALL INDIVIDUALS 48.00

MEAN LENGTH OF ALL INDIVIDUALS 67.0

MEAN WEIGHT OF ALL INDIVIDUALS 5.59

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB603

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 327

TOTAL WEIGHT OF ALL INDIVIDUALS 6968.47 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GAFFTOPSAIL CATFISH	0.33	132.0	41.59	41.59
GULF MENHADEN	0.33	44.0	1.77	1.77
SHEEPSHEAD MINNOW	0.33	28.0	0.82	0.82
STRIPED MULLET	0.33	91.0	21.41	21.41
SOUTHERN FLOUNDER	1.33	79.5	8.53	34.12
SAND SEATROUT	2.00	60.7	4.47	27.76
BROWN SHRIMP	3.33	65.8	2.43	23.26
ATLANTIC CROAKER	11.00	97.0	19.36	632.09
BAY ANCHOVY	12.00	40.7	0.89	31.67
WHITE SHRIMP	29.33	68.2	2.58	223.93
BLUE CATFISH	48.67	137.7	43.25	5930.05

DENSITY OF ALL INDIVIDUALS 109.00

MEAN LENGTH OF ALL INDIVIDUALS

76.8

MEAN WEIGHT OF ALL INDIVIDUALS

13.37

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 70

TOTAL WEIGHT OF ALL INDIVIDUALS 442.41 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TOUNGFISH	0.33	54.0	1.65	1.65
BLUE CRAB	0.33	121.0	93.68	93.68
GULF MENHADEN	0.33	87.0	9.85	9.85
HARDHEAD CATFISH	0.33	172.0	92.82	92.82
SOUTHERN FLOUNDER	0.67	77.0	7.90	15.79
GAFFTOPSAIL CATFISH	1.00	98.0	16.05	50.14
BAY ANCHOVY	1.67	42.7	1.11	5.12
SAND SEATROUT	2.00	42.0	1.89	17.62
ATLANTIC CROAKER	2.33	81.9	11.79	86.59
LINED SOLE	3.00	35.2	1.92	16.53
WHITE SHRIMP	3.33	69.3	3.20	31.73
BROWN SHRIMP	8.00	48.2	1.00	20.89

DENSITY OF ALL INDIVIDUALS 23.33

MEAN LENGTH OF ALL INDIVIDUALS 77.4

MEAN WEIGHT OF ALL INDIVIDUALS 20.24

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB623

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 102

TOTAL WEIGHT OF ALL INDIVIDUALS 1169.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	0.33	49.0	2.75	2.75
LINED SOLE	0.33	37.0	1.97	1.97
SPOTFIN MOJARRA	0.33	70.0	8.69	8.69
BLUE CRAB	0.67	38.5	9.40	18.80
HARRIS' MUD CRAB	0.67	7.5	0.12	0.24
SILVER PERCH	0.67	89.5	14.75	29.49
PINFISH	1.00	81.0	20.13	65.30
GAFFTOPSAIL CATFISH	1.67	100.4	18.49	91.47
SAND SEATROUT	1.67	83.6	40.07	144.77
BROWN SHRIMP	2.00	66.2	2.33	15.60
BAY ANCHOVY	2.33	39.7	0.76	5.64
ATLANTIC CROAKER	4.33	86.5	13.70	182.21
WHITE SHRIMP	6.67	97.1	7.37	160.39
HARDHEAD CATFISH	11.33	86.2	13.07	441.93

DENSITY OF ALL INDIVIDUALS 34.00

MEAN LENGTH OF ALL INDIVIDUALS 66.6

MEAN WEIGHT OF ALL INDIVIDUALS 10.97

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB633

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 137

TOTAL WEIGHT OF ALL INDIVIDUALS 829.22 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC THREADFIN	0.33	112.0	31.30	31.30
BLACKCHEEK TOUNGFISH	0.33	45.0	1.15	1.15
LEAST PUFFER	0.33	41.0	3.86	3.86
BLUE CRAB	0.67	82.0	32.61	65.22
GULF MENHADEN	0.67	54.5	2.83	5.65
SAND SEATROUT	1.00	61.0	4.44	10.49
LINED SOLE	1.33	36.0	2.28	10.61
GAFFTOPSAIL CATFISH	1.67	97.9	16.09	80.77
SPOT	3.33	83.9	17.49	175.21
BROWN SHRIMP	4.33	53.1	1.19	15.46
ATLANTIC CROAKER	5.33	69.4	6.72	119.28
HARDHEAD CATFISH	7.33	61.7	4.57	112.98
BAY ANCHOVY	7.67	41.8	1.06	24.41
WHITE SHRIMP	11.33	73.4	3.75	172.83

DENSITY OF ALL INDIVIDUALS 45.67

MEAN LENGTH OF ALL INDIVIDUALS 65.2

MEAN WEIGHT OF ALL INDIVIDUALS 9.24

LAVACA BAY

Trawl

DATA

DATE - 13 Aug 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 82

TOTAL WEIGHT OF ALL INDIVIDUALS 322.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.33	137.0	48.56	48.56
SILVER PERCH	0.33	57.0	3.72	3.72
HARDHEAD CATFISH	0.67	141.0	50.58	101.15
LINED SOLE	1.00	34.3	1.67	5.01
SAND SEATROUT	1.33	59.5	4.45	17.80
BLUE CRAB	1.67	31.2	2.47	12.36
WHITE SHRIMP	3.00	82.8	5.94	61.45
BROWN SHRIMP	5.67	57.1	1.66	29.42
BAY ANCHOVY	13.33	41.5	1.03	43.31

DENSITY OF ALL INDIVIDUALS 27.33

MEAN LENGTH OF ALL INDIVIDUALS 71.3

MEAN WEIGHT OF ALL INDIVIDUALS 13.34

LAVACA BAY

Trawl

DATA

DATE - 14 Aug 1985 STATION - LAB85

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 153

TOTAL WEIGHT OF ALL INDIVIDUALS 1549.49 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LEAST PUFFER	0.33	42.0	3.37	3.37
LINED SOLE	0.33	40.0	2.58	2.58
SPOT	0.33	90.0	19.67	19.67
BLUE CRAB	0.67	39.0	3.95	7.89
BROWN SHRIMP	0.67	62.5	1.70	3.40
SAND SEATROUT	1.00	65.7	4.41	14.31
WHITE SHRIMP	2.67	120.5	11.61	92.69
BAY ANCHOVY	3.67	47.6	1.49	13.43
HARDHEAD CATFISH	3.67	65.9	6.14	69.92
ATLANTIC CROAKER	17.33	78.2	10.00	501.93
GAFFTOPSAIL CATFISH	20.33	92.0	13.46	820.30

DENSITY OF ALL INDIVIDUALS 51.00

MEAN LENGTH OF ALL INDIVIDUALS

67.6

MEAN WEIGHT OF ALL INDIVIDUALS

7.12

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB45

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 1027

TOTAL WEIGHT OF ALL INDIVIDUALS 477.70 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	102.0	21.36	21.36
BLUE CATFISH	0.11	143.0	43.13	43.13
CREVALLE JACK	0.11	96.0	25.10	25.10
TIDEWATER SILVERSIDE	0.22	37.5	0.62	1.25
WHITE SHRIMP	0.64	107.9	8.22	50.05
GULF MENHADEN	13.09	45.5	1.84	232.70
BAY ANCHOVY	95.00	22.5	0.13	104.11

DENSITY OF ALL INDIVIDUALS 109.25

MEAN LENGTH OF ALL INDIVIDUALS 79.2

MEAN WEIGHT OF ALL INDIVIDUALS 14.34

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 1945

TOTAL WEIGHT OF ALL INDIVIDUALS 541.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	113.0	24.23	24.23
LADYFISH	0.11	164.0	41.44	41.44
SHEEPSHEAD MINNOW	0.11	29.0	0.81	0.81
SILVER PERCH	0.11	60.0	4.22	4.22
STRIPED MULLET	0.22	76.5	13.03	26.05
BROWN SHRIMP	0.53	47.2	1.25	3.92
TIDEWATER SILVERSIDE	0.96	31.9	0.41	3.72
WHITE SHRIMP	9.79	57.6	1.60	155.80
BAY ANCHOVY	195.00	23.4	0.16	281.02

DENSITY OF ALL INDIVIDUALS 206.91

MEAN LENGTH OF ALL INDIVIDUALS 67.0

MEAN WEIGHT OF ALL INDIVIDUALS 9.68

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB613

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 2109

TOTAL WEIGHT OF ALL INDIVIDUALS 517.02 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	80.0	8.90	8.90
BAY WHIFF	0.11	104.0	22.40	22.40
BLUE CRAB	0.11	7.0	0.02	0.02
GRASS SHRIMP	0.11	0.0	0.00	0.13
GULF KILLIFISH	0.11	26.0	0.29	0.29
GULF MENHADEN	0.11	21.0	0.07	0.07
LINED SOLE	0.11	19.0	0.24	0.24
SCALED SARDINE	0.11	23.0	0.08	0.08
GAFFTOPSAIL CATFISH	0.21	99.5	16.16	32.33
SAND SEATROUT	0.42	49.7	2.08	8.31
SPOTTED SEATROUT	0.42	18.2	0.32	1.82
SHEEPSHEAD MINNOW	1.38	30.4	1.32	17.14
BROWN SHRIMP	2.02	26.2	0.31	8.61
TIDEWATER SILVERSIDE	2.98	34.8	0.51	14.28
NAKED GOBY	3.83	7.4	0.01	0.36
BAY ANCHOVY	82.87	25.6	0.25	136.15
WHITE SHRIMP	129.37	31.0	0.31	265.89

DENSITY OF ALL INDIVIDUALS 224.35

MEAN LENGTH OF ALL INDIVIDUALS

35.5

MEAN WEIGHT OF ALL INDIVIDUALS

3.13

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 277

TOTAL WEIGHT OF ALL INDIVIDUALS 72.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.21	20.5	0.08	0.15
TIDEWATER SILVERSIDE	0.32	36.0	0.52	1.52
SCALED SARDINE	0.85	30.5	0.44	3.52
WHITE SHRIMP	0.96	71.1	4.23	34.11
BAY ANCHOVY	27.12	22.4	0.15	32.97

DENSITY OF ALL INDIVIDUALS 29.46

MEAN LENGTH OF ALL INDIVIDUALS 36.1

MEAN WEIGHT OF ALL INDIVIDUALS 1.08

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB633

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 141

TOTAL WEIGHT OF ALL INDIVIDUALS 151.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	23.0	0.54	0.54
HARDHEAD CATFISH	0.11	160.0	70.87	70.87
LEAST PUFFER	0.11	30.0	1.32	1.32
BROWN SHRIMP	0.96	33.5	0.36	3.12
WHITE SHRIMP	1.49	46.7	1.77	24.77
TIDEWATER SILVERSIDE	2.55	38.9	0.82	12.04
GRASS SHRIMP	2.66	0.0	0.00	5.36
BAY ANCHOVY	7.02	30.5	0.50	33.51

DENSITY OF ALL INDIVIDUALS 15.00

MEAN LENGTH OF ALL INDIVIDUALS 45.3

MEAN WEIGHT OF ALL INDIVIDUALS 9.52

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 49

TOTAL WEIGHT OF ALL INDIVIDUALS 75.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.11	8.0	0.01	0.01
SPOT	0.11	81.0	14.68	14.68
TIDEWATER SILVERSIDE	0.11	38.0	0.62	0.62
BROWN SHRIMP	0.21	10.5	0.01	0.02
SPOTFIN MOJARRA	0.22	44.5	4.17	8.35
SPOTTED SEATROUT	0.22	11.5	0.03	0.05
WHITE SHRIMP	0.42	114.0	10.16	40.99
BAY ANCHOVY	3.83	25.5	0.30	10.64

DENSITY OF ALL INDIVIDUALS 5.21

MEAN LENGTH OF ALL INDIVIDUALS 41.6

MEAN WEIGHT OF ALL INDIVIDUALS 3.75

LAVACA BAY

Seine

DATA

DATE - 14 Aug 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 409

TOTAL WEIGHT OF ALL INDIVIDUALS 248.43 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.11	99.0	19.52	19.52
BLUE CRAB	0.11	6.0	0.02	0.02
HARDHEAD CATFISH	0.11	114.0	26.53	26.53
STRIPED MULLET	0.11	176.0	141.78	141.78
BROWN SHRIMP	0.42	26.3	0.16	0.58
TIDEWATER SILVERSIDE	0.54	38.6	0.59	3.08
BAY ANCHOVY	42.13	21.8	0.12	56.92

DENSITY OF ALL INDIVIDUALS 43.51

MEAN LENGTH OF ALL INDIVIDUALS 68.8

MEAN WEIGHT OF ALL INDIVIDUALS 26.96

LAVACA BAY

Benthic Sled

DATA

DATE - 14 Aug 1985 STATION - LAB45

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 20

TOTAL WEIGHT OF ALL INDIVIDUALS 8.16 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.41	78.0	0.30	0.30
HARRIS' MUD CRAB	0.41	5.0	0.02	0.02
BAY ANCHOVY	0.83	21.5	0.11	0.22
NAKED GOBY	1.25	12.7	0.08	0.23
BLUE CRAB	2.08	11.0	0.57	4.44
BROWN SHRIMP	3.33	24.0	0.26	2.95

DENSITY OF ALL INDIVIDUALS 8.33

MEAN LENGTH OF ALL INDIVIDUALS 25.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.22

LAVACA BAY Benthic Sled DATA

DATE - 14 Aug 1985 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 3.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.41	11.0	0.03	0.03
BROWN SHRIMP	2.08	22.9	0.11	0.34
WHITE SHRIMP	2.08	38.3	0.58	2.91

DENSITY OF ALL INDIVIDUALS 4.58

MEAN LENGTH OF ALL INDIVIDUALS 24.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.24

LAVACA BAY

Benthic Sled

DATA

DATE - 14 Aug 1985 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 58

TOTAL WEIGHT OF ALL INDIVIDUALS 4.87 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LINED SOLE	0.41	15.0	0.15	0.15
BAY ANCHOVY	0.83	20.0	0.08	0.15
BROWN SHRIMP	0.83	24.0	0.11	0.22
NAKED GOBY	0.83	8.0	0.01	0.02
WHITE SHRIMP	21.25	21.4	0.08	4.33

DENSITY OF ALL INDIVIDUALS 24.17

MEAN LENGTH OF ALL INDIVIDUALS 17.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.09

LAVACA BAY

Benthic Sled

DATA

DATE - 14 Aug 1985 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 58

TOTAL WEIGHT OF ALL INDIVIDUALS 20.16 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SKILLET FISH	0.41	25.0	0.44	0.44
BAY ANCHOVY	0.83	19.0	0.06	0.12
NAKED GOBY	1.67	17.8	0.16	0.63
HARRIS' MUD CRAB	2.08	4.2	0.04	0.19
WHITE SHRIMP	2.50	16.3	0.05	0.28
BLUE CRAB	4.16	11.1	1.23	17.11
BROWN SHRIMP	12.50	17.4	0.05	1.39

DENSITY OF ALL INDIVIDUALS 24.16

MEAN LENGTH OF ALL INDIVIDUALS 15.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.29

LAVACA BAY Benthic Sled DATA

DATE - 14 Aug 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 59

TOTAL WEIGHT OF ALL INDIVIDUALS 8.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	18.0	0.05	0.05
BLUE CRAB	1.25	11.3	0.18	0.53
BROWN SHRIMP	7.08	20.2	0.12	3.43
GRASS SHRIMP	7.50	0.0	0.00	3.58
WHITE SHRIMP	8.33	14.2	0.03	0.51

DENSITY OF ALL INDIVIDUALS 24.58

MEAN LENGTH OF ALL INDIVIDUALS 12.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.08

LAVACA BAY Benthic Sled DATA

DATE - 13 Aug 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 48.73 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE SHRIMP	0.41	10.0	0.01	0.01
BLUE CRAB	0.83	48.5	24.18	48.36
BROWN SHRIMP	1.25	22.3	0.10	0.31
NAKED GOBY	2.08	8.0	0.01	0.05

DENSITY OF ALL INDIVIDUALS 4.58

MEAN LENGTH OF ALL INDIVIDUALS 22.2

MEAN WEIGHT OF ALL INDIVIDUALS 6.08

LAVACA BAY

Benthic Sled

DATA

DATE - 13 Aug 1985 STATION - LAB85

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 13

TOTAL WEIGHT OF ALL INDIVIDUALS 0.80 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.41	0.0	0.00	0.40
BLUE CRAB	0.83	9.5	0.04	0.09
HARRIS' MUD CRAB	0.83	6.5	0.05	0.10
BROWN SHRIMP	0.83	22.5	0.07	0.15
NAKED GOBY	1.25	9.0	0.01	0.03
WHITE SHRIMP	1.25	10.8	0.01	0.03

DENSITY OF ALL INDIVIDUALS 5.41

MEAN LENGTH OF ALL INDIVIDUALS 9.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.03

LAVACA BAY

Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB45

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	3.55	4.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 3.55

MEAN LENGTH OF ALL INDIVIDUALS 4.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 5

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.64	25.0	0.00	0.00
BLUE CRAB	2.10	17.0	0.00	0.00
BAY ANCHOVY	4.93	11.3	0.00	0.00

DENSITY OF ALL INDIVIDUALS 8.67

MEAN LENGTH OF ALL INDIVIDUALS 17.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB613

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.95	6.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 1.95

MEAN LENGTH OF ALL INDIVIDUALS 6.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB623

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 8

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	3.56	13.0	0.00	0.00
HOGCHOKER	3.56	3.0	0.00	0.00
BLUE CRAB	8.25	8.8	0.00	0.00
BROWN SHRIMP	9.47	10.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 24.84

MEAN LENGTH OF ALL INDIVIDUALS 8.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.77	4.0	0.00	0.00
WHITE SHRIMP	3.54	8.5	0.00	0.00
BROWN SHRIMP	15.96	11.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 21.28

MEAN LENGTH OF ALL INDIVIDUALS 7.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 13 Aug 1985 STATION - LAB85

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE SHRIMP	1.96	10.0	0.00	0.00
BROWN SHRIMP	4.27	10.5	0.00	0.00
STRIPED BLENNY	16.73	2.8	0.00	0.00

DENSITY OF ALL INDIVIDUALS 22.96

MEAN LENGTH OF ALL INDIVIDUALS

7.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB45

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 26

TOTAL WEIGHT OF ALL INDIVIDUALS 61.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	2.00	56.7	1.37	8.23
BAY ANCHOVY	3.33	39.7	0.79	8.96
WHITE SHRIMP	3.33	85.0	4.02	43.91

DENSITY OF ALL INDIVIDUALS 8.67

MEAN LENGTH OF ALL INDIVIDUALS 60.5

MEAN WEIGHT OF ALL INDIVIDUALS 2.06

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 37

TOTAL WEIGHT OF ALL INDIVIDUALS 130.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	0.0	0.00	0.10
ATLANTIC MIDSHIPMAN	0.33	0.0	0.00	0.96
BLUE CATFISH	0.33	0.0	0.00	36.97
HOGCHOKER	0.33	0.0	0.00	1.41
BLUE CRAB	0.67	0.0	0.00	4.48
GROOVED SHRIMP	1.67	0.0	0.00	3.57
BAY ANCHOVY	4.33	0.0	0.00	8.69
WHITE SHRIMP	4.33	0.0	0.00	73.95

DENSITY OF ALL INDIVIDUALS 12.33

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 175

TOTAL WEIGHT OF ALL INDIVIDUALS 271.47 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TONGUEFISH	0.33	46.0	0.00	1.13
BLUE CRAB	0.67	26.5	0.00	3.18
GULF MENHADEN	0.67	59.5	0.00	7.75
HARDHEAD CATFISH	0.67	73.0	0.00	14.27
ATLANTIC CROAKER	1.00	28.0	0.00	1.14
ATLANTIC MIDSHIPMAN	1.00	37.3	0.00	2.64
HOGCHOKER	1.00	44.7	0.00	11.97
BAY ANCHOVY	3.33	36.0	0.00	5.08
WHITE SHRIMP	22.33	58.9	0.00	143.60
GROOVED SHRIMP	27.33	46.0	0.00	80.71

DENSITY OF ALL INDIVIDUALS 58.33

MEAN LENGTH OF ALL INDIVIDUALS 45.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB623

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 39

TOTAL WEIGHT OF ALL INDIVIDUALS 108.52 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	80.0	0.00	9.83
BAY ANCHOVY	0.33	35.0	0.00	0.47
HARRIS' MUD CRAB	0.33	15.0	0.00	0.94
LINED SOLE	0.67	30.5	0.00	2.45
WHITE SHRIMP	4.00	85.2	0.00	59.38
GROOVED SHRIMP	7.33	51.3	0.00	35.45

DENSITY OF ALL INDIVIDUALS 13.00

MEAN LENGTH OF ALL INDIVIDUALS 49.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB633

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 33

TOTAL WEIGHT OF ALL INDIVIDUALS 763.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.33	152.0	0.00	94.98
SPOT	0.33	91.0	0.00	19.93
BAY ANCHOVY	0.67	40.5	0.00	1.60
BLUE CRAB	0.67	187.5	0.00	578.47
GROOVED SHRIMP	0.67	53.0	0.00	2.11
WHITE SHRIMP	8.33	71.2	0.00	66.16

DENSITY OF ALL INDIVIDUALS 11.00

MEAN LENGTH OF ALL INDIVIDUALS 99.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 23 Oct 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 51

TOTAL WEIGHT OF ALL INDIVIDUALS 114.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	30.0	0.00	0.48
BLUE CRAB	0.33	52.0	0.00	9.54
WHITE SHRIMP	1.67	74.7	0.00	11.33
GROOVED SHRIMP	2.00	53.2	0.00	5.42
GULF MENHADEN	5.00	56.3	0.00	53.07
BAY ANCHOVY	7.67	43.0	0.00	34.94

DENSITY OF ALL INDIVIDUALS 17.00

MEAN LENGTH OF ALL INDIVIDUALS 51.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 22 Oct 1985 STATION - LAB85

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 9

TOTAL WEIGHT OF ALL INDIVIDUALS 21.82 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	40.0	0.00	0.86
THUMBSTALL SQUID	0.33	32.0	0.00	3.18
WHITE SHRIMP	0.67	85.0	0.00	9.19
GROOVED SHRIMP	1.67	58.2	0.00	8.59

DENSITY OF ALL INDIVIDUALS 3.00

MEAN LENGTH OF ALL INDIVIDUALS 53.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 148

TOTAL WEIGHT OF ALL INDIVIDUALS 82.11 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	0.32	0.0	0.00	2.72
TIDEWATER SILVERSIDE	1.06	0.0	0.00	7.03
WHITE SHRIMP	1.17	0.0	0.00	38.79
BAY ANCHOVY	13.20	0.0	0.00	33.57

DENSITY OF ALL INDIVIDUALS 15.75

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 1192

TOTAL WEIGHT OF ALL INDIVIDUALS 207.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	0.0	0.00	0.02
LEATHERJACKET	0.11	25.0	0.00	0.25
LONGNOSE KILLIFISH	0.11	28.0	40.00	0.40
RAINWATER KILLIFISH	0.11	28.0	0.00	0.43
SPOTTED SEATROUT	0.22	0.0	0.00	22.42
ROUGH SILVERSIDE	0.32	16.0	0.00	1.04
GROOVED SHRIMP	1.27	49.3	0.00	13.56
WHITE SHRIMP	6.60	33.6	0.00	51.46
BAY ANCHOVY	117.98	10.9	0.00	117.78

DENSITY OF ALL INDIVIDUALS 126.81

MEAN LENGTH OF ALL INDIVIDUALS 21.2

MEAN WEIGHT OF ALL INDIVIDUALS 4.44

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 223

TOTAL WEIGHT OF ALL INDIVIDUALS 60.16 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC BUMPER	0.11	25.0	0.00	0.30
GROOVED SHRIMP	0.43	48.7	0.00	5.54
WHITE SHRIMP	0.75	85.9	0.00	28.44
ROUGH SILVERSIDE	3.51	26.7	0.00	6.22
BAY ANCHOVY	18.93	21.8	0.00	19.66

DENSITY OF ALL INDIVIDUALS 23.73

MEAN LENGTH OF ALL INDIVIDUALS 41.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB633

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 3144

TOTAL WEIGHT OF ALL INDIVIDUALS 45.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.11	84.0	0.00	9.97
ROUGH SILVERSIDE	0.11	50.0	0.00	1.15
GROOVED SHRIMP	0.21	59.0	0.00	2.92
BAY ANCHOVY	334.04	21.2	0.00	31.32

DENSITY OF ALL INDIVIDUALS 334.46

MEAN LENGTH OF ALL INDIVIDUALS 53.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB65

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 404

TOTAL WEIGHT OF ALL INDIVIDUALS 133.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	6.0	0.00	0.02
NAKED GOBY	0.11	16.0	0.00	0.09
STRIPED MULLET	0.11	96.0	0.00	21.36
WHITE SHRIMP	0.64	92.9	0.00	31.94
ROUGH SILVERSIDE	0.75	46.0	0.00	8.08
GROOVED SHRIMP	2.02	48.9	0.00	20.51
BAY ANCHOVY	39.26	24.9	0.00	51.78

DENSITY OF ALL INDIVIDUALS 42.97

MEAN LENGTH OF ALL INDIVIDUALS 47.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 102

TOTAL WEIGHT OF ALL INDIVIDUALS 209.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
INSHORE LIZARDFISH	0.11	128.0	0.00	17.27
SPOTFIN MOJARRA	0.11	67.0	0.00	4.59
SPOTTED SEATROUT	0.11	119.0	0.00	22.21
LEATHERJACKET	0.21	25.5	0.00	5.03
ATLANTIC CROAKER	0.22	13.5	0.00	0.09
PINFISH	0.22	114.5	0.00	115.38
WHITE SHRIMP	0.75	87.7	0.00	34.62
BAY ANCHOVY	9.15	26.6	0.00	10.29

DENSITY OF ALL INDIVIDUALS 10.85

MEAN LENGTH OF ALL INDIVIDUALS 72.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 22 Oct 1985 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 16

TOTAL WEIGHT OF ALL INDIVIDUALS 3.41 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	0.0	0.00	0.02
HARRIS' MUD CRAB	0.41	0.0	0.00	0.02
NAKED GOBY	2.50	0.0	0.00	0.67
GROOVED SHRIMP	3.33	0.0	0.00	2.70

DENSITY OF ALL INDIVIDUALS 6.66

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 22 Oct 1985 STATION - LAB603

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 32

TOTAL WEIGHT OF ALL INDIVIDUALS 5.63 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	0.0	0.00	0.06
BLUE CRAB	0.83	0.0	0.00	0.02
NAKED GOBY	5.42	0.0	0.00	0.70
GROOVED SHRIMP	6.67	0.0	0.00	4.85

DENSITY OF ALL INDIVIDUALS 13.34

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 22 Oct 1985 STATION - LAB613

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 35

TOTAL WEIGHT OF ALL INDIVIDUALS 8.72 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.83	8.0	0.00	0.06
BAY ANCHOVY	0.83	19.5	0.00	0.13
BLACKCHEEK TONGUEFISH	1.25	22.7	0.00	0.42
NAKED GOBY	1.66	14.3	0.00	0.29
ATLANTIC CROAKER	1.67	12.8	0.00	0.16
GROOVED SHRIMP	2.50	51.7	0.00	7.24
WHITE SHRIMP	5.83	16.9	0.00	0.42

DENSITY OF ALL INDIVIDUALS 14.58

MEAN LENGTH OF ALL INDIVIDUALS 20.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 22 Oct 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 31

TOTAL WEIGHT OF ALL INDIVIDUALS 13.40 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	17.0	0.00	0.02
HARRIS' MUD CRAB	0.41	4.0	0.00	0.02
WHITE SHRIMP	0.41	32.0	0.00	0.17
NAKED GOBY	4.16	12.2	0.00	0.62
GROOVED SHRIMP	7.50	35.2	0.00	12.57

DENSITY OF ALL INDIVIDUALS 12.91

MEAN LENGTH OF ALL INDIVIDUALS

20.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 22 Oct 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 1.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	0.41	10.0	0.00	0.01
WHITE SHRIMP	0.41	13.0	0.00	0.01
GROOVED SHRIMP	0.83	42.5	0.00	1.51

DENSITY OF ALL INDIVIDUALS 1.66

MEAN LENGTH OF ALL INDIVIDUALS 21.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 22 Oct 1985 STATION - LAB65

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 31

TOTAL WEIGHT OF ALL INDIVIDUALS 10.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	6.0	0.00	0.07
WHITE SHRIMP	0.41	38.0	0.00	0.33
XANTHID SP.	0.41	2.0	0.00	0.22
NAKED GOBY	4.16	16.0	0.00	0.81
GROOVED SHRIMP	7.50	31.8	0.00	8.95

DENSITY OF ALL INDIVIDUALS 12.91

MEAN LENGTH OF ALL INDIVIDUALS 18.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 23 Oct 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 33

TOTAL WEIGHT OF ALL INDIVIDUALS 2.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	11.0	0.00	0.02
BLACKCHEEK TONGUEFISH	0.41	25.0	0.00	0.13
HARRIS' MUD CRAB	0.41	6.0	0.00	0.05
CLOWN GOBY	1.25	10.3	0.00	0.03
WHITE SHRIMP	1.66	12.8	0.00	0.13
BLUE CRAB	1.67	6.2	0.00	0.04
NAKED GOBY	3.75	10.6	0.00	0.19
GROOVED SHRIMP	4.17	16.1	0.00	1.45

DENSITY OF ALL INDIVIDUALS 13.75

MEAN LENGTH OF ALL INDIVIDUALS 12.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 23 Oct 1985 STATION - LAB45

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 5

TOTAL WEIGHT OF ALL INDIVIDUALS 0.07 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	10.85	3.6	0.00	0.07

DENSITY OF ALL INDIVIDUALS 10.85

MEAN LENGTH OF ALL INDIVIDUALS 3.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 23 Oct 1985 STATION - LAB613

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	2.45	17.0	0.00	0.04

DENSITY OF ALL INDIVIDUALS 2.45

MEAN LENGTH OF ALL INDIVIDUALS 17.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 22 Oct 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 4455

TOTAL WEIGHT OF ALL INDIVIDUALS 583.58 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.11	140.0	0.00	71.92
HARDHEAD CATFISH	0.11	0.0	0.00	8.96
LEATHERJACKET	0.11	62.0	0.00	2.91
SPOTTED SEATROUT	0.11	63.0	0.00	3.49
ROUGH SILVERSIDE	0.95	22.5	0.00	7.48
GROOVED SHRIMP	4.68	23.4	0.00	34.79
WHITE SHRIMP	12.56	25.9	0.00	119.99
BAY ANCHOVY	455.32	10.2	0.00	334.04

DENSITY OF ALL INDIVIDUALS 473.93

MEAN LENGTH OF ALL INDIVIDUALS 43.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Dec 1985 STATION - LAB45

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 20

TOTAL WEIGHT OF ALL INDIVIDUALS 42.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	6.0	0.00	0.02
NAKED GOBY	0.41	16.0	0.00	0.07
SPOTFIN MOJARRA	0.41	50.0	0.00	3.92
BAY ANCHOVY	0.83	20.5	0.00	0.15
BLUE CRAB	2.92	14.2	0.00	36.68
ATLANTIC CROAKER	3.33	20.8	0.00	1.44

DENSITY OF ALL INDIVIDUALS 8.34

MEAN LENGTH OF ALL INDIVIDUALS 21.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB603

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 269

TOTAL WEIGHT OF ALL INDIVIDUALS 745.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	0.33	24.0	0.00	0.19
GULF MENHADEN	0.33	46.0	0.00	2.14
SOUTHERN FLOUNDER	0.67	119.5	0.00	61.02
BLUE CRAB	2.00	15.2	0.00	2.14
STRIPED MULLET	3.00	117.6	0.00	489.87
GRASS SHRIMP	4.67	0.0	0.00	5.04
GROOVED SHRIMP	13.00	45.3	0.00	35.04
BAY ANCHOVY	19.33	24.1	0.00	10.72
ATLANTIC CROAKER	21.67	23.0	0.00	17.92
WHITE SHRIMP	24.67	56.8	0.00	120.93

DENSITY OF ALL INDIVIDUALS 89.67

MEAN LENGTH OF ALL INDIVIDUALS 47.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB45

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 415

TOTAL WEIGHT OF ALL INDIVIDUALS 814.35 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GIZZARD SHAD	0.33	106.0	0.00	22.31
BLUE CRAB	1.00	15.7	0.00	1.21
BLUE CATFISH	1.67	137.9	0.00	274.01
THREADFIN SHAD	2.33	49.1	0.00	15.64
WHITE SHRIMP	2.33	48.1	0.00	5.67
BAY ANCHOVY	29.33	36.3	0.00	68.66
GULF MENHADEN	47.00	49.2	0.00	351.65
ATLANTIC CROAKER	54.33	27.9	0.00	75.20

DENSITY OF ALL INDIVIDUALS 138.33

MEAN LENGTH OF ALL INDIVIDUALS

58.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 125

TOTAL WEIGHT OF ALL INDIVIDUALS 206.35 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	33.0	0.00	1.34
BLACKCHEEK TONGUEFISH	0.33	42.0	0.00	0.83
HARRIS' MUD CRAB	0.33	10.0	0.00	0.13
SOUTHERN FLOUNDER	0.33	139.0	0.00	47.21
STRIPED MULLET	0.67	109.0	0.00	55.69
BLUE CRAB	1.67	18.4	0.00	3.04
SHEEPSHEAD MINNOW	1.67	29.6	0.00	5.80
BAY ANCHOVY	4.00	39.2	0.00	13.07
GROOVED SHRIMP	4.33	42.6	0.00	9.05
GRASS SHRIMP	6.33	0.0	0.00	5.37
WHITE SHRIMP	7.67	57.9	0.00	39.66
ATLANTIC CROAKER	14.00	30.7	0.00	25.16

DENSITY OF ALL INDIVIDUALS 41.67

MEAN LENGTH OF ALL INDIVIDUALS 45.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 68

TOTAL WEIGHT OF ALL INDIVIDUALS 509.24 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	23.0	0.00	0.45
NAKED GOBY	0.33	32.0	0.00	0.76
SHEEPSHEAD MINNOW	1.00	30.8	0.00	3.39
WHITE SHRIMP	1.00	45.7	0.00	1.84
ATLANTIC CROAKER	1.33	24.5	0.00	2.05
BLUE CRAB	1.67	81.8	0.00	475.67
HARRIS' MUD CRAB	1.67	0.0	0.00	2.38
GRASS SHRIMP	3.67	0.0	0.00	2.30
GROOVED SHRIMP	4.00	55.1	0.00	14.94
BAY ANCHOVY	7.67	24.8	0.00	5.46

DENSITY OF ALL INDIVIDUALS 22.67

MEAN LENGTH OF ALL INDIVIDUALS 31.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB633

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 65

TOTAL WEIGHT OF ALL INDIVIDUALS 390.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.33	153.0	0.00	108.74
GRASS SHRIMP	1.33	0.0	0.00	1.57
STRIPED MULLET	2.33	112.2	0.00	258.64
GROOVED SHRIMP	3.00	32.5	0.00	5.13
ATLANTIC CROAKER	3.67	26.5	0.00	4.21
WHITE SHRIMP	3.67	40.9	0.00	8.43
BAY ANCHOVY	7.33	24.6	0.00	3.61

DENSITY OF ALL INDIVIDUALS 21.67

MEAN LENGTH OF ALL INDIVIDUALS

55.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Dec 1985 STATION - LAB65

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 70

TOTAL WEIGHT OF ALL INDIVIDUALS 166.90 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	37.0	0.00	2.16
WHITE SHRIMP	0.67	89.0	0.00	9.97
ATLANTIC CROAKER	2.33	31.2	0.00	4.31
BAY ANCHovy	3.67	27.4	0.00	2.82
GULF MENHADEN	16.33	52.0	0.00	147.64

DENSITY OF ALL INDIVIDUALS 23.33

MEAN LENGTH OF ALL INDIVIDUALS 47.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Dec 1985 STATION - LAB85

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 210

TOTAL WEIGHT OF ALL INDIVIDUALS 206.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	85.0	0.00	0.94
BIGHEAD SEAROBIN	0.33	20.0	0.00	0.31
GRASS SHRIMP	0.33	0.0	0.00	0.52
MENTICIRRHUS SP.	0.33	114.0	0.00	25.99
THREADFIN SHAD	0.33	63.0	0.00	4.02
BLUE CRAB	0.67	35.5	0.00	7.95
HARRIS' MUD CRAB	1.00	7.3	0.00	0.76
SAND SEATROUT	1.00	83.5	0.00	31.20
SHEEPSHEAD MINNOW	1.00	31.0	0.00	4.62
GROOVED SHRIMP	1.67	62.2	0.00	12.62
WHITE SHRIMP	2.33	70.4	0.00	18.09
GULF MENHADEN	3.33	67.4	0.00	60.37
ATLANTIC CROAKER	7.67	28.6	0.00	11.93
BAY ANCHOVY	49.67	35.0	0.00	27.16

DENSITY OF ALL INDIVIDUALS 70.00

MEAN LENGTH OF ALL INDIVIDUALS 50.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 1052

TOTAL WEIGHT OF ALL INDIVIDUALS 104.79 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	8.0	0.00	0.05
NAKED GOBY	0.11	22.0	0.00	0.27
STRIPED MULLET	0.11	20.0	0.00	0.14
THREADFIN SHAD	0.11	28.0	0.00	0.28
WHITE SHRIMP	0.22	46.0	0.00	1.34
ATLANTIC CROAKER	3.61	23.4	0.00	9.41
SHEEPSHEAD MINNOW	5.42	23.8	0.00	9.14
GULF MENHADEN	12.56	21.9	0.00	13.10
TIDEWATER SILVERSIDE	15.74	32.8	0.00	66.06
BAY ANCHOVY	73.93	27.4	0.00	5.00

DENSITY OF ALL INDIVIDUALS 111.90

MEAN LENGTH OF ALL INDIVIDUALS 25.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 2991

TOTAL WEIGHT OF ALL INDIVIDUALS 67.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	7.0	0.00	0.03
STRIPED MULLET	0.11	20.0	0.00	0.12
WHITE SHRIMP	0.11	37.0	0.00	0.28
SHEEPSHEAD MINNOW	0.64	22.5	0.00	2.83
ATLANTIC CROAKER	1.49	25.4	0.00	5.02
TIDEWATER SILVERSIDE	3.83	26.6	0.00	8.54
GRASS SHRIMP	7.45	0.0	0.00	8.72
GULF MENHADEN	10.64	21.9	0.00	10.24
BAY ANCHOVY	293.83	20.5	0.00	32.00

DENSITY OF ALL INDIVIDUALS 318.19

MEAN LENGTH OF ALL INDIVIDUALS

20.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB613

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 320

TOTAL WEIGHT OF ALL INDIVIDUALS 51.68 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	11.0	0.00	0.11
GROOVED SHRIMP	0.11	16.0	0.00	0.02
SPOT	0.11	11.0	0.00	0.01
WHITE SHRIMP	0.11	58.0	0.00	1.20
GULF KILLIFISH	0.53	33.6	0.00	3.27
SHEEPSHEAD MINNOW	0.64	18.1	0.00	2.09
GULF MENHADEN	0.64	21.4	0.00	0.60
TIDEWATER SILVERSIDE	2.23	26.4	0.00	4.85
BAY ANCHOVY	4.79	21.9	0.00	4.92
ATLANTIC CROAKER	11.59	19.4	0.00	17.34
GRASS SHRIMP	13.20	0.0	0.00	17.27

DENSITY OF ALL INDIVIDUALS 34.03

MEAN LENGTH OF ALL INDIVIDUALS 21.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB623

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 195

TOTAL WEIGHT OF ALL INDIVIDUALS 56.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	0.11	22.0	0.00	0.13
GULF KILLIFISH	0.53	39.2	0.00	11.92
MOSQUITOFISH	0.75	19.3	0.00	1.64
SHEEPSHEAD MINNOW	1.17	23.1	0.00	7.33
TIDEWATER SILVERSIDE	2.44	44.3	0.00	25.30
GRASS SHRIMP	15.74	0.0	0.00	9.68

DENSITY OF ALL INDIVIDUALS 20.73

MEAN LENGTH OF ALL INDIVIDUALS 24.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB633

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 136

TOTAL WEIGHT OF ALL INDIVIDUALS 17.81 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	0.32	22.3	0.00	0.35
GRASS SHRIMP	0.96	0.0	0.00	0.90
TIDEWATER SILVERSIDE	0.96	36.1	0.00	5.83
BAY ANCHOVY	12.24	28.2	0.00	10.73

DENSITY OF ALL INDIVIDUALS 14.47

MEAN LENGTH OF ALL INDIVIDUALS 21.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB65

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 540

TOTAL WEIGHT OF ALL INDIVIDUALS 148.40 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LEPOMIS SP.	0.11	61.0	0.00	5.94
NAKED GOBY	0.11	14.0	0.00	0.06
SAILFIN MOLLY	0.11	24.0	0.00	0.40
WHITE SHRIMP	0.11	66.0	0.00	1.82
ATLANTIC CROAKER	0.85	25.7	0.00	2.98
GRASS SHRIMP	1.27	0.0	0.00	1.93
STRIPED MULLET	3.51	21.4	0.00	6.25
TIDEWATER SILVERSIDE	3.83	25.3	0.00	6.72
MOSQUITOFISH	3.83	18.3	0.00	7.47
BAY ANCHOVY	7.02	21.3	0.00	6.81
GULF MENHADEN	7.02	21.1	0.00	6.09
GULF KILLIFISH	12.56	30.2	0.00	80.45
SHEEPSHEAD MINNOW	17.13	23.5	0.00	21.48

DENSITY OF ALL INDIVIDUALS 57.43

MEAN LENGTH OF ALL INDIVIDUALS 27.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 4 Dec 1985 STATION - LAB85

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 85

TOTAL WEIGHT OF ALL INDIVIDUALS 16.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.11	28.0	0.00	0.22
BLUE CRAB	0.11	9.0	0.00	0.09
DARTER GUBY	0.11	19.0	0.00	0.09
HARRIS' MUD CRAB	0.11	3.0	0.00	0.02
ATLANTIC CROAKER	0.32	13.7	0.00	0.13
MOSQUITOFISH	0.42	17.8	0.00	0.69
STRIPED MULLET	1.06	20.4	0.00	1.56
SHEEPSHEAD MINNOW	1.17	22.0	0.00	4.72
GULF MENHADEN	1.70	21.3	0.00	1.22
GRASS SHRIMP	1.81	0.0	0.00	1.54
TIDEWATER SILVERSIDE	2.12	36.4	0.00	6.00

DENSITY OF ALL INDIVIDUALS 9.04

MEAN LENGTH OF ALL INDIVIDUALS 17.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 4 Dec 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 36

TOTAL WEIGHT OF ALL INDIVIDUALS 3.81 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	0.0	0.00	0.03
WHITE SHRIMP	0.41	52.0	0.00	0.97
GROOVED SHRIMP	0.83	20.0	0.00	0.09
NAKED GOBY	1.66	17.5	0.00	0.58
BLUE CRAB	2.08	5.7	0.00	0.13
GRASS SHRIMP	2.08	0.0	0.00	0.24
ATLANTIC CROAKER	2.08	21.3	0.00	0.99
BAY ANCHOVY	5.41	20.0	0.00	0.78

DENSITY OF ALL INDIVIDUALS 14.99

MEAN LENGTH OF ALL INDIVIDUALS 17.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 4 Dec 1985 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 41

TOTAL WEIGHT OF ALL INDIVIDUALS 3.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	0.41	23.0	0.00	0.44
BLUE CRAB	0.83	15.5	0.00	0.52
GROOVED SHRIMP	0.83	17.0	0.00	0.06
ATLANTIC CROAKER	1.25	13.5	0.00	0.13
GRASS SHRIMP	13.75	0.0	0.00	2.46

DENSITY OF ALL INDIVIDUALS 17.08

MEAN LENGTH OF ALL INDIVIDUALS 13.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Dec 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 116

TOTAL WEIGHT OF ALL INDIVIDUALS 19.73 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	6.0	0.00	0.02
HARRIS' MUD CRAB	1.66	4.6	0.00	0.11
MOSQUITOFISH	2.08	19.3	0.00	1.09
SHEEPSHEAD MINNOW	10.00	24.6	0.00	13.01
GRASS SHRIMP	34.17	0.0	0.00	5.50

DENSITY OF ALL INDIVIDUALS 48.33

MEAN LENGTH OF ALL INDIVIDUALS 10.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 4 Dec 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 5

TOTAL WEIGHT OF ALL INDIVIDUALS 0.23 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	14.0	0.00	0.04
GRASS SHRIMP	0.41	0.0	0.00	0.09
BLUE CRAB	1.25	6.7	0.00	0.10

DENSITY OF ALL INDIVIDUALS 2.08

MEAN LENGTH OF ALL INDIVIDUALS 6.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 4 Dec 1985 STATION - LAB65

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	14.0	0.00	0.05
BAY ANCHOVY	1.25	19.7	0.00	0.23

DENSITY OF ALL INDIVIDUALS 1.66
MEAN LENGTH OF ALL INDIVIDUALS 16.8
MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Dec 1985 STATION - LAB85

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 0.34 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	0.41	16.0	0.00	0.02
HARRIS' MUD CRAB	0.41	5.0	0.00	0.05
BLUE CRAB	1.25	4.0	0.00	0.02
ATLANTIC CROAKER	2.92	12.8	0.00	0.25

DENSITY OF ALL INDIVIDUALS 5.00

MEAN LENGTH OF ALL INDIVIDUALS 9.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 3 Dec 1985 STATION - LAB45

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 5

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	1.37	69.0	0.00	0.00
BAY ANCHOVY	5.47	20.3	0.00	0.00

DENSITY OF ALL INDIVIDUALS 6.84

MEAN LENGTH OF ALL INDIVIDUALS 44.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 3 Dec 1985 STATION - LAB603

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	2.37	20.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 2.37

MEAN LENGTH OF ALL INDIVIDUALS 20.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 3 Dec 1985 STATION - LAB613

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 10

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	1.85	12.0	0.00	0.00
SPECKLED WORM EEL	1.85	135.0	0.00	0.00
BAY ANCHOVY	17.89	21.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 21.60

MEAN LENGTH OF ALL INDIVIDUALS

56.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 3 Dec 1985 STATION - LAB633

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	3.98	20.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 3.98

MEAN LENGTH OF ALL INDIVIDUALS 20.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 3 Dec 1985 STATION - LAB85

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	2.01	20.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 2.01

MEAN LENGTH OF ALL INDIVIDUALS 20.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB45

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 4.47 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	10.0	0.00	0.14
GRASS SHRIMP	0.33	0.0	0.00	0.60
ATLANTIC CROAKER	0.67	26.0	0.00	0.88
BAY ANCHOVY	0.67	22.0	0.00	0.18
HARRIS' MUD CRAB	0.67	8.5	0.00	0.40
GULF MENHADEN	1.33	31.0	0.00	2.27

DENSITY OF ALL INDIVIDUALS 4.00

MEAN LENGTH OF ALL INDIVIDUALS 16.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB603

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 140

TOTAL WEIGHT OF ALL INDIVIDUALS 75.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	12.0	0.00	0.13
WHITE SHRIMP	0.33	68.0	0.00	2.07
BAY ANCHOVY	1.67	24.6	0.00	1.15
SOUTHERN FLOUNDER	3.00	27.8	0.00	4.54
GULF MENHADEN	3.67	23.8	0.00	1.68
ATLANTIC CROAKER	37.67	29.9	0.00	65.76

DENSITY OF ALL INDIVIDUALS 46.67

MEAN LENGTH OF ALL INDIVIDUALS 31.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 316

TOTAL WEIGHT OF ALL INDIVIDUALS 172.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.41
GROOVED SHRIMP	0.33	43.0	0.00	0.69
BAY ANCHOVY	0.67	23.5	0.00	0.21
WHITE SHRIMP	0.67	44.0	0.00	1.20
BLUE CRAB	1.33	31.3	0.00	106.63
SOUTHERN FLOUNDER	1.33	22.3	0.00	0.85
SPOT	12.00	28.5	0.00	20.85
ATLANTIC CROAKER	14.00	34.3	0.00	28.37
GULF MENHADEN	74.67	25.5	0.00	13.53

DENSITY OF ALL INDIVIDUALS 105.33

MEAN LENGTH OF ALL INDIVIDUALS

28.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 244

TOTAL WEIGHT OF ALL INDIVIDUALS 1527.04 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.33	72.0	0.00	9.71
SPOT	0.33	25.0	0.00	0.32
NAKED GOBY	0.67	25.5	0.00	0.68
WHITE SHRIMP	2.33	57.1	0.00	11.22
BAY ANCHOVY	3.33	35.8	0.00	4.96
HARRIS' MUD CRAB	6.00	7.9	0.00	5.13
GROOVED SHRIMP	7.33	45.5	0.00	17.59
GRASS SHRIMP	7.67	0.0	0.00	8.71
BLUE CRAB	10.67	67.4	0.00	1384.93
SOUTHERN FLOUNDER	15.33	26.3	0.00	16.14
ATLANTIC CROAKER	27.33	34.6	0.00	67.65

DENSITY OF ALL INDIVIDUALS 81.33

MEAN LENGTH OF ALL INDIVIDUALS 36.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB633

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 194

TOTAL WEIGHT OF ALL INDIVIDUALS 100.92 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	40.0	0.00	0.72
GRASS SHRIMP	0.33	0.0	0.00	0.23
WHITE SHRIMP	0.67	44.5	0.00	1.25
SOUTHERN FLOUNDER	2.00	26.3	0.00	2.22
GROOVED SHRIMP	3.33	54.3	0.00	15.11
GULF MENHADEN	6.00	25.7	0.00	4.10
BLUE CRAB	7.67	15.0	0.00	7.32
ATLANTIC CROAKER	44.33	29.7	0.00	69.97

DENSITY OF ALL INDIVIDUALS 64.67

MEAN LENGTH OF ALL INDIVIDUALS 29.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Feb 1986 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 13

TOTAL WEIGHT OF ALL INDIVIDUALS 7.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.33	0.0	0.00	0.17
HARRIS' MUD CRAB	0.33	8.0	0.00	0.20
SOUTHERN FLOUNDER	0.33	28.0	0.00	0.42
BAY ANCHOVY	1.00	23.3	0.00	0.41
GROOVED SHRIMP	1.00	16.0	0.00	0.05
ATLANTIC CROAKER	1.33	30.2	0.00	6.30

DENSITY OF ALL INDIVIDUALS 4.33

MEAN LENGTH OF ALL INDIVIDUALS 17.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 5 Feb 1986 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 142

TOTAL WEIGHT OF ALL INDIVIDUALS 320.98 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	24.0	0.00	0.11
BAY WHIFF	0.33	18.0	0.00	0.08
BLACKCHEEK TONGUEFISH	0.33	49.0	0.00	1.19
SOUTHERN HAKE	0.33	62.0	0.00	3.35
SPOT	0.33	19.0	0.00	0.15
BIGHEAD SEAROBIN	0.67	37.5	0.00	3.49
HARRIS' MUD CRAB	1.00	8.0	0.00	0.66
WHITE SHRIMP	1.00	52.5	0.00	3.01
GROOVED SHRIMP	2.33	37.2	0.00	5.84
SOUTHERN FLOUNDER	2.67	27.3	0.00	3.44
BLUE CRAB	5.67	53.0	0.00	206.40
GRASS SHRIMP	7.00	0.0	0.00	6.85
ATLANTIC CROAKER	25.33	39.5	0.00	86.41

DENSITY OF ALL INDIVIDUALS 47.33

MEAN LENGTH OF ALL INDIVIDUALS 32.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 374

TOTAL WEIGHT OF ALL INDIVIDUALS 68.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
MOSQUITOFISH	0.11	19.0	0.00	0.26
BAY ANCHOVY	0.42	30.0	0.00	0.87
PINFISH	0.42	14.2	0.00	0.21
BLUE CRAB	0.85	10.1	0.00	0.89
GRASS SHRIMP	1.17	0.0	0.00	3.30
GROOVED SHRIMP	1.81	14.8	0.00	0.25
SPOT	2.77	18.5	0.00	4.81
ATLANTIC CROAKER	4.25	25.3	0.00	13.69
TIDEWATER SILVERSIDE	6.91	33.6	0.00	32.71
GULF MENHADEN	21.06	22.1	0.00	11.11

DENSITY OF ALL INDIVIDUALS 39.78

MEAN LENGTH OF ALL INDIVIDUALS 18.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB603

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 817

TOTAL WEIGHT OF ALL INDIVIDUALS 99.75 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	120.0	0.00	24.28
STRIPED MULLET	0.11	26.0	0.00	0.23
GULF PIPEFISH	0.22	90.0	0.00	0.91
GULF MENHADEN	0.32	22.3	0.00	0.30
SHEEPSHEAD MINNOW	0.32	19.7	0.00	0.83
TIDEWATER SILVERSIDE	0.42	25.5	0.00	0.67
BLUE CRAB	1.59	8.4	0.00	0.88
PINFISH	1.70	14.6	0.00	0.91
BAY ANCHOVY	3.94	31.5	0.00	12.97
SPOT	6.59	15.5	0.00	4.18
GROOVED SHRIMP	17.87	15.1	0.00	6.89
GRASS SHRIMP	20.64	0.0	0.00	29.76
ATLANTIC CROAKER	33.09	18.6	0.00	16.94

DENSITY OF ALL INDIVIDUALS 86.91

MEAN LENGTH OF ALL INDIVIDUALS 31.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 1077

TOTAL WEIGHT OF ALL INDIVIDUALS 38.67 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
RAINWATER KILLIFISH	0.11	21.0	0.00	0.17
HARRIS' MUD CRAB	0.21	7.0	0.00	0.26
SHEEPSHEAD MINNOW	0.32	24.0	0.00	1.53
BLUE CRAB	0.42	12.5	0.00	1.93
GROOVED SHRIMP	0.53	15.2	0.00	0.08
GULF MENHADEN	0.54	22.6	0.00	0.53
STRIPED MULLET	0.64	23.8	0.00	1.30
TIDEWATER SILVERSIDE	0.85	24.7	0.00	1.30
BAY ANCHOVY	2.02	34.4	0.00	7.53
SPOT	9.15	16.8	0.00	9.21
PINFISH	15.75	15.0	0.00	4.83
GRASS SHRIMP	84.04	0.0	0.00	10.00

DENSITY OF ALL INDIVIDUALS 114.58

MEAN LENGTH OF ALL INDIVIDUALS 18.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 620

TOTAL WEIGHT OF ALL INDIVIDUALS 72.34 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	0.11	16.0	0.00	0.02
SHEEPSHEAD MINNOW	0.11	30.0	0.00	0.92
TIDEWATER SILVERSIDE	0.11	26.0	0.00	0.19
STRIPED MULLET	0.21	23.5	0.00	0.36
PINFISH	0.43	14.0	0.00	0.19
LADYFISH - L	0.54	0.0	0.00	0.83
GRASS SHRIMP	0.85	0.0	0.00	1.95
BAY ANCHOVY	1.06	31.7	0.00	3.16
ATLANTIC CROAKER	2.13	13.3	0.00	0.75
SPOT	4.15	14.7	0.00	1.85
GULF MENHADEN	56.28	22.1	0.00	62.12

DENSITY OF ALL INDIVIDUALS 65.96

MEAN LENGTH OF ALL INDIVIDUALS 17.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 107

TOTAL WEIGHT OF ALL INDIVIDUALS 17.55 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	9.0	0.00	0.05
PINFISH	0.22	14.5	0.00	0.08
SHEEPSHEAD MINNOW	0.22	24.0	0.00	0.99
GULF MENHADEN	0.32	17.8	0.00	0.28
GROOVED SHRIMP	0.96	7.6	0.00	0.11
SPOT	1.38	14.9	0.00	0.86
ATLANTIC CROAKER	1.59	14.1	0.00	0.69
GRASS SHRIMP	2.98	0.0	0.00	6.03
STRIPED MULLET	3.61	24.5	0.00	8.46

DENSITY OF ALL INDIVIDUALS 11.39

MEAN LENGTH OF ALL INDIVIDUALS 14.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB65

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 347

TOTAL WEIGHT OF ALL INDIVIDUALS 62.86 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.11	34.0	0.00	0.41
ROUGH SILVERSIDE	0.11	35.0	0.00	0.31
ATLANTIC CROAKER	0.32	18.3	0.00	0.35
BLUE CRAB	0.42	7.5	0.00	0.20
PINFISH	0.75	14.3	0.00	0.30
SHEEPSHEAD MINNOW	1.49	22.4	0.00	6.16
SPOT	1.70	16.1	0.00	1.21
GROOVED SHRIMP	2.66	15.2	0.00	0.30
TIDEWATER SILVERSIDE	2.87	31.7	0.00	10.81
STRIPED MULLET	6.70	23.7	0.00	14.42
GRASS SHRIMP	6.81	0.0	0.00	14.10
GULF MENHADEN	12.98	22.8	0.00	14.29

DENSITY OF ALL INDIVIDUALS 36.92

MEAN LENGTH OF ALL INDIVIDUALS 20.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 5 Feb 1986 STATION - LAB85

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 621

TOTAL WEIGHT OF ALL INDIVIDUALS 68.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DARTER GOBY	0.11	23.0	0.00	0.19
GULF KILLIFISH	0.11	60.0	0.00	4.73
NAKED GOBY	0.11	15.0	0.00	0.07
TIDEWATER SILVERSIDE	0.11	15.9	0.00	1.00
SOUTHERN FLOUNDER	0.32	19.0	0.00	0.52
BLUE CRAB	0.96	10.1	0.00	1.54
PINFISH	1.27	14.6	0.00	0.74
GRASS SHRIMP	3.19	0.0	0.00	7.59
ATLANTIC CROAKER	6.81	24.1	0.00	18.08
GULF MENHADEN	10.75	20.9	0.00	7.87
SPOT	16.59	21.8	0.00	15.97
GROOVED SHRIMP	25.74	16.8	0.00	10.32

DENSITY OF ALL INDIVIDUALS 66.05

MEAN LENGTH OF ALL INDIVIDUALS 20.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 5 Feb 1986 STATION - LAB45

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 108

TOTAL WEIGHT OF ALL INDIVIDUALS 3.65 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	28.0	0.00	0.37
GULF MENHADEN	0.41	24.0	0.00	0.07
GULF PIPEFISH	0.41	108.0	0.00	0.65
HARRIS' MUD CRAB	0.41	3.0	0.00	0.01
LADYFISH - L	0.41	0.0	0.00	0.18
NAKED GOBY	0.41	19.0	0.00	0.14
PINFISH	0.41	13.0	0.00	0.01
SOUTHERN FLOUNDER	0.41	29.0	0.00	0.40
SPOT	0.83	13.0	0.00	0.04
GRASS SHRIMP	1.25	0.0	0.00	0.43
BLUE CRAB	1.66	9.2	0.00	0.24
GROOVED SHRIMP	37.92	14.9	0.00	1.11

DENSITY OF ALL INDIVIDUALS 44.98

MEAN LENGTH OF ALL INDIVIDUALS 21.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 5 Feb 1986 STATION - LAB603

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 132

TOTAL WEIGHT OF ALL INDIVIDUALS 7.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	6.0	0.00	0.07
PINFISH	0.41	15.0	0.00	0.07
SOUTHERN FLOUNDER	0.41	20.0	0.00	0.16
SPOT	0.41	15.0	0.00	0.06
GRASS SHRIMP	0.83	0.0	0.00	0.16
BAY ANCHOVY	1.66	31.5	0.00	1.25
BLUE CRAB	3.33	6.7	0.00	0.25
ATLANTIC CROAKER	12.50	19.9	0.00	4.53
GROOVED SHRIMP	35.00	14.9	0.00	1.16

DENSITY OF ALL INDIVIDUALS 54.99

MEAN LENGTH OF ALL INDIVIDUALS 14.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 5 Feb 1986 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 130

TOTAL WEIGHT OF ALL INDIVIDUALS 9.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	0.41	22.0	0.00	0.12
SOUTHERN FLOUNDER	0.41	20.5	0.00	0.39
BLUE CRAB	0.83	11.0	0.00	0.25
DARTER GOBY	0.83	12.5	0.00	0.05
HARRIS' MUD CRAB	0.83	6.0	0.00	0.18
PINFISH	2.08	12.9	0.00	0.21
GRASS SHRIMP	4.58	0.0	0.00	2.45
ATLANTIC CROAKER	6.25	19.7	0.00	2.42
SPOT	7.50	17.5	0.00	2.31
GROOVED SHRIMP	30.42	15.7	0.00	1.28

DENSITY OF ALL INDIVIDUALS 54.17

MEAN LENGTH OF ALL INDIVIDUALS 13.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 5 Feb 1986 STATION - LAB623

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 720

TOTAL WEIGHT OF ALL INDIVIDUALS 54.67 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SHEEPSHEAD MINNOW	0.41	31.0	0.00	0.99
STRIPED MULLET	0.41	22.0	0.00	0.14
SOUTHERN FLOUNDER	0.83	11.5	0.00	0.04
HARRIS' MUD CRAB	1.25	7.0	0.00	0.28
NAKED GOBY	1.25	22.8	0.00	0.94
BLUE CRAB	1.66	17.3	0.00	25.56
ATLANTIC CROAKER	3.33	15.1	0.00	0.39
GULF MENHADEN	5.00	21.4	0.00	0.66
GROOVED SHRIMP	22.50	14.6	0.00	0.51
PINFISH	50.00	13.4	0.00	3.70
GRASS SHRIMP	86.66	0.0	0.00	7.46
SPOT	126.67	14.4	0.00	14.00

DENSITY OF ALL INDIVIDUALS 300.00

MEAN LENGTH OF ALL INDIVIDUALS 15.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 5 Feb 1986 STATION - LAB633

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 74

TOTAL WEIGHT OF ALL INDIVIDUALS 5.98 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	2.50	0.0	0.00	1.09
SPOT	2.91	13.8	0.00	0.27
ATLANTIC CROAKER	2.92	13.6	0.00	0.30
SOUTHERN FLOUNDER	5.00	21.8	0.00	2.14
BLUE CRAB	8.75	12.3	0.00	1.96
GROOVED SHRIMP	8.75	15.2	0.00	0.22

DENSITY OF ALL INDIVIDUALS 30.83

MEAN LENGTH OF ALL INDIVIDUALS 12.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 5 Feb 1986 STATION - LAB65

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 236

TOTAL WEIGHT OF ALL INDIVIDUALS 10.87 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.83	14.0	0.00	0.70
GULF PIPEFISH	0.83	96.5	0.00	1.25
NAKED GOBY	0.83	17.5	0.00	0.23
SPOT	0.83	14.5	0.00	0.10
SOUTHERN FLOUNDER	1.25	25.7	0.00	1.14
GRASS SHRIMP	4.16	0.0	0.00	0.78
GROOVED SHRIMP	89.59	14.7	0.00	6.67

DENSITY OF ALL INDIVIDUALS 98.34

MEAN LENGTH OF ALL INDIVIDUALS 26.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Feb 1986 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 424

TOTAL WEIGHT OF ALL INDIVIDUALS 39.58 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	0.83	21.0	0.00	0.12
ATLANTIC CROAKER	1.25	24.3	0.00	0.98
DARTER GOBY	1.25	14.7	0.00	0.16
HARRIS' MUD CRAB	1.25	5.0	0.00	0.16
SOUTHERN FLOUNDER	1.25	15.8	0.00	0.20
BLUE CRAB	4.58	11.8	0.00	2.76
SPOT	11.25	16.7	0.00	3.23
PINFISH	12.09	13.4	0.00	1.04
GRASS SHRIMP	29.16	0.0	0.00	17.93
GROOVED SHRIMP	113.75	14.9	0.00	13.00

DENSITY OF ALL INDIVIDUALS 176.67

MEAN LENGTH OF ALL INDIVIDUALS 13.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 4 Feb 1986 STATION - LAB623

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	5.62	13.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 5.62
 MEAN LENGTH OF ALL INDIVIDUALS 13.0
 MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 4 Feb 1986 STATION - LAB633

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	1.83	4.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 1.83
 MEAN LENGTH OF ALL INDIVIDUALS 4.0
 MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 4 Feb 1986 STATION - LAB65

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	6.78	20.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 6.78

MEAN LENGTH OF ALL INDIVIDUALS 20.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB45

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 331

TOTAL WEIGHT OF ALL INDIVIDUALS 183.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.33	36.0	0.00	0.76
WHITE SHRIMP	1.00	91.3	0.00	17.21
BLUE CRAB	1.33	40.0	0.00	34.60
SPOT	3.67	28.8	0.00	7.29
GROOVED SHRIMP	5.00	41.2	0.00	12.20
BAY ANCHOVY	9.33	39.1	0.00	22.03
ATLANTIC CROAKER	11.33	31.2	0.00	15.01
GULF MENHADEN	78.33	27.1	0.00	74.28

DENSITY OF ALL INDIVIDUALS 110.33

MEAN LENGTH OF ALL INDIVIDUALS 41.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB603

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 664

TOTAL WEIGHT OF ALL INDIVIDUALS 530.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.00	49.3	0.00	32.87
SOUTHERN FLOUNDER	3.00	47.3	0.00	14.60
GULF MENHADEN	3.33	25.2	0.00	2.27
BAY ANCHOVY	5.33	41.2	0.00	11.41
SPOT	7.67	32.2	0.00	18.28
GROOVED SHRIMP	78.00	49.5	0.00	259.82
ATLANTIC CROAKER	123.00	45.2	0.00	191.28

DENSITY OF ALL INDIVIDUALS 221.33

MEAN LENGTH OF ALL INDIVIDUALS

41.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB613

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 3047

TOTAL WEIGHT OF ALL INDIVIDUALS 1012.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	83.0	0.00	19.36
CHAIN PIPEFISH	0.33	137.0	0.00	0.97
FRESHWATER SHRIMP	0.67	14.0	0.00	0.07
HARDHEAD CATFISH	0.67	83.3	0.00	19.43
TIDEWATER SILVERSIDE	0.67	37.0	0.00	1.07
BAY WHIFF	1.00	38.7	0.00	2.50
LADYFISH	1.00	32.0	0.00	0.33
BLACKCHEEK TONGUEFISH	1.33	70.7	0.00	13.96
BLUE CRAB	2.33	39.4	0.00	48.69
PINFISH	7.00	25.1	0.00	7.85
SOUTHERN FLOUNDER	7.67	43.6	0.00	54.02
GRASS SHRIMP	21.33	0.0	0.00	20.00
SPOT	64.67	43.3	0.00	505.50
BAY ANCHOVY	113.00	24.3	0.00	8.16
ATLANTIC CROAKER	138.00	46.3	0.00	64.85
GROOVED SHRIMP	219.67	45.8	0.00	238.49
GULF MENHADEN	436.00	21.3	0.00	7.06

DENSITY OF ALL INDIVIDUALS 1015.67

MEAN LENGTH OF ALL INDIVIDUALS 46.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB623

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1576

TOTAL WEIGHT OF ALL INDIVIDUALS 574.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TONGUEFISH	0.33	61.0	0.00	1.90
PINFISH	0.33	43.0	0.00	2.12
SHRIMP EEL	0.33	410.0	0.00	79.71
THUMBSTALL SQUID	0.33	32.0	0.00	2.93
BAY WHIFF	1.00	45.7	0.00	3.86
ATLANTIC THREADFIN	1.33	59.5	0.00	14.37
GULF MENHADEN	1.33	35.5	0.00	3.18
HARDHEAD CATFISH	1.33	86.3	0.00	46.38
BLUE CRAB	1.67	48.9	0.00	50.41
BAY ANCHOVY	3.67	31.9	0.00	4.08
ATLANTIC CROAKER	51.00	47.3	0.00	327.19
GROOVED SHRIMP	214.33	58.9	0.00	23.00
SPOT	248.33	47.4	0.00	15.00

DENSITY OF ALL INDIVIDUALS 525.33

MEAN LENGTH OF ALL INDIVIDUALS 77.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB633

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 1039

TOTAL WEIGHT OF ALL INDIVIDUALS 1812.49 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF TOADFISH	0.33	111.0	0.00	46.46
HARRIS' MUD CRAB	0.33	10.0	0.00	0.62
GRASS SHRIMP	0.67	0.0	0.00	0.82
BAY ANCHOVY	1.00	42.0	0.00	2.47
BLUE CRAB	3.67	63.6	0.00	243.85
HARDHEAD CATFISH	3.67	82.6	0.00	105.44
ATLANTIC THREADFIN	7.33	54.9	0.00	60.04
GROOVED SHRIMP	69.33	61.6	0.00	378.80
SPOT	76.33	42.3	0.00	99.32
ATLANTIC CROAKER	183.67	56.2	0.00	874.67

DENSITY OF ALL INDIVIDUALS 346.33

MEAN LENGTH OF ALL INDIVIDUALS 52.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 8 Apr 1986 STATION - LAB65

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 378

TOTAL WEIGHT OF ALL INDIVIDUALS 400.84 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BIGHEAD SEAROBIN	0.33	62.0	0.00	7.32
HARRIS' MUD CRAB	0.33	12.0	0.00	0.68
NAKED GOBY	0.33	23.0	0.00	0.24
PINFISH	0.33	34.0	0.00	0.98
SOUTHERN FLOUNDER	0.33	58.0	0.00	1.77
WHITE SHRIMP	0.33	112.0	0.00	10.75
BAY ANCHOVY	1.00	32.7	0.00	1.24
ATLANTIC CROAKER	4.67	39.4	0.00	18.81
SPOT	22.33	48.6	0.00	235.61
GROOVED SHRIMP	96.00	49.8	0.00	123.44

DENSITY OF ALL INDIVIDUALS 126.00

MEAN LENGTH OF ALL INDIVIDUALS 47.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 9 Apr 1986 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 596

TOTAL WEIGHT OF ALL INDIVIDUALS 1865.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	88.0	0.00	11.25
PINFISH	0.33	103.0	0.00	33.52
THUMBSTALL SQUID	0.33	82.0	0.00	38.15
GULF MENHADEN	1.00	28.3	0.00	0.88
ATLANTIC THREADFIN	4.33	58.7	0.00	49.27
BLUE CRAB	4.33	67.0	0.00	369.48
SPOT	10.33	51.5	0.00	102.98
BAY ANCHOVY	19.33	32.5	0.00	31.15
GROOVED SHRIMP	58.00	55.1	0.00	255.05
ATLANTIC CROAKER	100.33	55.4	0.00	973.58

DENSITY OF ALL INDIVIDUALS 198.67

MEAN LENGTH OF ALL INDIVIDUALS 62.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 1610

TOTAL WEIGHT OF ALL INDIVIDUALS 252.19 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.11	112.0	0.00	0.91
STRIPED MULLET	0.22	39.0	0.00	2.85
ATLANTIC CROAKER	0.42	54.2	0.00	12.01
GRASS SHRIMP	1.17	0.0	0.00	3.36
PINFISH	1.81	30.8	0.00	16.96
SPOT	8.09	38.1	0.00	100.18
GROOVED SHRIMP	8.93	37.2	0.00	44.04
TIDEWATER SILVERSIDE	11.81	34.1	0.00	57.88
BAY ANCHOVY	36.38	29.7	0.00	2.00
GULF MENHADEN	102.34	23.5	0.00	12.00

DENSITY OF ALL INDIVIDUALS 171.27

MEAN LENGTH OF ALL INDIVIDUALS

39.9

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 1225

TOTAL WEIGHT OF ALL INDIVIDUALS 100.37 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.85	25.8	0.00	3.24
PINFISH	1.17	23.3	0.00	4.50
LADYFISH	1.81	32.4	0.00	2.34
SPOT	2.87	27.9	0.00	8.08
GULF MENHADEN	7.55	19.9	0.00	4.64
GROOVED SHRIMP	11.70	28.3	0.00	24.34
TIDEWATER SILVERSIDE	14.58	30.6	0.00	49.23
BAY ANCHOVY	89.79	26.1	0.00	4.00

DENSITY OF ALL INDIVIDUALS 130.32

MEAN LENGTH OF ALL INDIVIDUALS

26.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB613

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1745

TOTAL WEIGHT OF ALL INDIVIDUALS 569.85 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACKCHEEK TONGUEFISH	0.11	59.0	0.00	1.70
THUMBSTALL SQUID	0.11	77.0	0.00	33.19
WHITE SHRIMP	0.11	10.0	0.00	0.01
BLUE CRAB	0.21	42.5	0.00	36.14
LADYFISH	0.32	29.3	0.00	0.32
TIDEWATER SILVERSIDE	0.32	34.7	0.00	1.39
PINFISH	0.42	27.3	0.00	2.86
SOUTHERN FLOUNDER	0.85	42.6	0.00	10.65
SPOT	12.13	41.0	0.00	12.69
ATLANTIC CROAKER	19.89	44.6	0.00	412.81
BAY ANCHOVY	20.96	36.5	0.00	6.36
GROOVED SHRIMP	28.73	43.5	0.00	42.26
GULF MENHADEN	101.49	24.7	0.00	9.47

DENSITY OF ALL INDIVIDUALS 185.63

MEAN LENGTH OF ALL INDIVIDUALS

39.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB623

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 179

TOTAL WEIGHT OF ALL INDIVIDUALS 58.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.11	33.0	0.00	0.76
GRASS SHRIMP	0.21	0.0	0.00	0.31
BLUE CRAB	0.22	18.5	0.00	0.87
SPOT	0.43	39.5	0.00	6.65
GROOVED SHRIMP	0.54	45.2	0.00	3.97
TIDEWATER SILVERSIDE	0.64	47.8	0.00	7.19
LADYFISH	0.96	31.4	0.00	1.14
BAY ANCHovy	7.02	34.0	0.00	26.79
GULF MENHADEN	8.93	21.8	0.00	10.93

DENSITY OF ALL INDIVIDUALS 19.05

MEAN LENGTH OF ALL INDIVIDUALS

30.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 307

TOTAL WEIGHT OF ALL INDIVIDUALS 184.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC THREADFIN	0.11	52.0	0.00	2.47
STRIPED MULLET	0.11	190.0	0.00	129.00
SPOT	0.22	31.0	0.00	1.29
TIDEWATER SILVERSIDE	0.32	53.3	0.00	4.94
ATLANTIC CROAKER	0.54	27.3	0.00	1.80
GRASS SHRIMP	0.64	0.0	0.00	1.31
GROOVED SHRIMP	2.45	40.5	0.00	15.67
BAY ANCHOVY	6.28	29.3	0.00	15.42
GULF MENHADEN	22.02	23.7	0.00	12.10

DENSITY OF ALL INDIVIDUALS 32.67

MEAN LENGTH OF ALL INDIVIDUALS 49.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 216

TOTAL WEIGHT OF ALL INDIVIDUALS 101.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.21	36.0	0.00	2.94
SPOT	0.32	33.7	0.00	2.78
TIDEWATER SILVERSIDE	2.55	34.3	0.00	13.51
GULF MENHADEN	3.94	23.4	0.00	4.75
GROOVED SHRIMP	7.77	44.8	0.00	58.00
BAY ANCHOVY	8.20	28.7	0.00	19.64

DENSITY OF ALL INDIVIDUALS 22.98

MEAN LENGTH OF ALL INDIVIDUALS 33.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Seine

DATA

DATE - 9 Apr 1986 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 281

TOTAL WEIGHT OF ALL INDIVIDUALS 226.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
TIDEWATER SILVERSIDE	0.22	55.5	0.00	3.93
ATLANTIC CROAKER	0.32	59.2	0.00	9.92
PINFISH	0.32	14.5	0.00	0.21
GRASS SHRIMP	2.66	0.0	0.00	8.17
SPOT	3.19	49.3	0.00	79.34
BAY ANCHOVY	3.19	24.6	0.00	5.87
GULF MENHADEN	6.80	20.2	0.00	4.07
GROOVED SHRIMP	13.20	44.1	0.00	114.49

DENSITY OF ALL INDIVIDUALS 29.90

MEAN LENGTH OF ALL INDIVIDUALS

33.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Benthic Sled DATA

DATE - 9 Apr 1986 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 68

TOTAL WEIGHT OF ALL INDIVIDUALS 17.77 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	17.0	0.00	0.06
NAKED GOBY	0.41	23.0	0.00	0.24
BLUE CRAB	1.66	11.3	0.00	0.54
GROOVED SHRIMP	25.83	27.8	0.00	16.93

DENSITY OF ALL INDIVIDUALS 28.33

MEAN LENGTH OF ALL INDIVIDUALS 19.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 9 Apr 1986 STATION - LAB603

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 56

TOTAL WEIGHT OF ALL INDIVIDUALS 10.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	5.0	0.00	0.08
WHITE SHRIMP	0.41	11.0	0.00	0.01
BLUE CRAB	1.25	10.3	0.00	0.24
GROOVED SHRIMP	21.25	27.3	0.00	10.62

DENSITY OF ALL INDIVIDUALS 23.33

MEAN LENGTH OF ALL INDIVIDUALS 13.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 9 Apr 1986 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 109

TOTAL WEIGHT OF ALL INDIVIDUALS 62.08 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.41	38.0	0.00	0.78
ATLANTIC CROAKER	0.83	38.0	0.00	2.87
GREEN GOBY	0.83	26.0	0.00	0.59
BLUE CRAB	1.66	10.3	0.00	0.47
GROOVED SHRIMP	41.67	32.4	0.00	57.37

DENSITY OF ALL INDIVIDUALS 45.42

MEAN LENGTH OF ALL INDIVIDUALS 28.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 9 Apr 1986 STATION - LAB603

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 56

TOTAL WEIGHT OF ALL INDIVIDUALS 10.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	5.0	0.00	0.08
WHITE SHRIMP	0.41	11.0	0.00	0.01
BLUE CRAB	1.25	10.3	0.00	0.24
GROOVED SHRIMP	21.25	27.3	0.00	10.62

DENSITY OF ALL INDIVIDUALS 23.33

MEAN LENGTH OF ALL INDIVIDUALS

13.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Benthic Sled DATA

DATE - 9 Apr 1986 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 109

TOTAL WEIGHT OF ALL INDIVIDUALS 62.08 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SOUTHERN FLOUNDER	0.41	38.0	0.00	0.78
ATLANTIC CROAKER	0.83	38.0	0.00	2.87
GREEN GOBY	0.83	26.0	0.00	0.59
BLUE CRAB	1.66	10.3	0.00	0.47
GROOVED SHRIMP	41.67	32.4	0.00	57.37

DENSITY OF ALL INDIVIDUALS 45.42

MEAN LENGTH OF ALL INDIVIDUALS 28.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 9 Apr 1986 STATION - LAB623

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 796

TOTAL WEIGHT OF ALL INDIVIDUALS 20.22 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	21.0	0.00	0.13
PINFISH	0.41	20.0	0.00	0.17
HARRIS' MUD CRAB	0.83	7.0	0.00	0.26
GRASS SHRIMP	0.83	0.0	0.00	0.52
GULF MENHADEN	3.33	20.1	0.00	0.45
NAKED GOBY	3.33	26.7	0.00	4.05
BLUE CRAB	5.41	15.0	0.00	3.64
GROOVED SHRIMP	317.08	14.4	0.00	11.00

DENSITY OF ALL INDIVIDUALS 331.66

MEAN LENGTH OF ALL INDIVIDUALS 15.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 9 Apr 1986 STATION - LAB633

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 76

TOTAL WEIGHT OF ALL INDIVIDUALS . 12.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	9.0	0.00	0.03
SPOT	0.41	25.0	0.00	0.36
GRASS SHRIMP	6.66	0.0	0.00	4.49
GROOVED SHRIMP	24.16	25.2	0.00	7.74

DENSITY OF ALL INDIVIDUALS 31.66

MEAN LENGTH OF ALL INDIVIDUALS 14.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Benthic Sled

DATA

DATE - 9 Apr 1986 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 114

TOTAL WEIGHT OF ALL INDIVIDUALS 23.15 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	11.0	0.00	0.26
SPOT	0.41	41.0	0.00	1.37
NAKED GOBY	0.83	18.0	0.00	0.20
GROOVED SHRIMP	45.84	23.0	0.00	21.32

DENSITY OF ALL INDIVIDUALS 47.50

MEAN LENGTH OF ALL INDIVIDUALS 23.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Benthic Sled DATA

DATE - 8 Apr 1986 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 90

TOTAL WEIGHT OF ALL INDIVIDUALS 37.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.41	5.0	0.00	0.04
PINFISH	0.41	44.0	0.00	2.65
SPOT	0.41	38.0	0.00	1.28
BAY WHIFF	0.83	28.5	0.00	0.67
ATLANTIC CROAKER	1.25	43.5	0.00	4.46
BLUE CRAB	2.08	11.4	0.00	0.76
GROOVED SHRIMP	32.09	28.7	0.00	27.88

DENSITY OF ALL INDIVIDUALS 37.49

MEAN LENGTH OF ALL INDIVIDUALS 28.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB45

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 1

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GOBY SP.	1.75	3.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 1.75
MEAN LENGTH OF ALL INDIVIDUALS 3.0
MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 4

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.50	26.0	0.00	0.00
TIDEWATER SILVERSIDE	1.50	4.0	0.00	0.00
LEAST PUFFER	2.83	3.5	0.00	0.00

DENSITY OF ALL INDIVIDUALS 5.83

MEAN LENGTH OF ALL INDIVIDUALS 11.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB613

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 11

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	16.40	12.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 16.40
 MEAN LENGTH OF ALL INDIVIDUALS 12.4
 MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB623

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 35

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	4.36	24.5	0.00	0.00
GOBY SP.	6.48	3.0	0.00	0.00
TIDEWATER SILVERSIDE	6.48	3.7	0.00	0.00
LEAST PUFFER	6.58	3.0	0.00	0.00
GROOVED SHRIMP	24.20	11.1	0.00	0.00
BAY ANCHOVY	28.35	4.7	0.00	0.00

DENSITY OF ALL INDIVIDUALS 76.45

MEAN LENGTH OF ALL INDIVIDUALS

8.4

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 32

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.51	23.0	0.00	0.00
GOBY SP.	1.51	5.0	0.00	0.00
TIDEWATER SILVERSIDE	3.02	4.0	0.00	0.00
GULF MENHADEN	10.59	21.1	0.00	0.00
GROOVED SHRIMP	31.80	12.2	0.00	0.00

DENSITY OF ALL INDIVIDUALS 48.44

MEAN LENGTH OF ALL INDIVIDUALS 13.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB65

TOTAL # SPECIES - 2

TOTAL # OF INDIVIDUALS - 2

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	1.55	12.0	0.00	0.00
GULF MENHADEN	1.81	29.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 3.37

MEAN LENGTH OF ALL INDIVIDUALS 20.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 8 Apr 1986 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 54

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	1.60	12.0	0.00	0.00
STRIPED BURRFISH	1.75	3.0	0.00	0.00
WHITE SHRIMP	3.20	11.0	0.00	0.00
STRIPED BLENNY	4.95	3.5	0.00	0.00
LEAST PUFFER	6.40	3.7	0.00	0.00
BAY ANCHOVY	15.14	5.9	0.00	0.00
TIDEWATER SILVERSIDE	22.12	5.9	0.00	0.00
GROOVED SHRIMP	35.36	11.6	0.00	0.00

DENSITY OF ALL INDIVIDUALS 90.50

MEAN LENGTH OF ALL INDIVIDUALS

7.1

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Jun 1986 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 32

TOTAL WEIGHT OF ALL INDIVIDUALS 35.20 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	48.0	0.00	2.60
GROOVED SHRIMP	0.33	73.0	0.00	2.92
SPOT	0.33	58.0	0.00	5.12
GULF MENHADEN	9.67	35.9	0.00	24.56

DENSITY OF ALL INDIVIDUALS 10.67

MEAN LENGTH OF ALL INDIVIDUALS 53.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Jun 1986 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 212

TOTAL WEIGHT OF ALL INDIVIDUALS 553.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	74.0	0.00	6.60
BLUE CRAB	0.33	50.0	0.00	7.27
HARDHEAD CATFISH	0.33	108.0	0.00	19.63
SOUTHERN FLOUNDER	0.33	60.0	0.00	3.67
BAY ANCHOVY	2.67	33.4	0.00	4.54
ATLANTIC CROAKER	19.33	60.7	0.00	246.56
GULF MENHADEN	22.67	33.4	0.00	45.43
GROOVED SHRIMP	24.67	71.3	0.00	219.55

DENSITY OF ALL INDIVIDUALS 70.67

MEAN LENGTH OF ALL INDIVIDUALS

61.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Jun 1986 STATION - LAB613

TOTAL # SPECIES - 14

TOTAL # OF INDIVIDUALS - 332

TOTAL WEIGHT OF ALL INDIVIDUALS 2309.52 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	153.0	0.00	153.99
LEAST PUFFER	0.33	38.0	0.00	2.99
SPOT	0.33	78.0	0.00	8.51
THUMBSTALL SQUID	0.33	41.0	0.00	8.27
WHITE SHRIMP	0.33	21.0	0.00	0.25
GULF MENHADEN	0.67	42.5	0.00	2.31
HARDHEAD CATFISH	0.67	147.5	0.00	145.54
SAND SEATROUT	0.67	40.0	0.00	2.37
BLACKCHEEK TONGUEFISH	1.00	79.5	0.00	18.03
SOUTHERN FLOUNDER	1.00	43.0	0.00	3.88
BAY ANCHOVY	1.67	30.6	0.00	4.31
ATLANTIC THREADFIN	3.33	90.6	0.00	203.27
ATLANTIC CROAKER	38.00	76.0	0.00	1009.77
GROOVED SHRIMP	62.00	78.3	0.00	746.03

DENSITY OF ALL INDIVIDUALS 110.67

MEAN LENGTH OF ALL INDIVIDUALS

68.5

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1633

TOTAL WEIGHT OF ALL INDIVIDUALS 2657.62 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	13.0	0.62	0.62
HOGCHOKER	0.33	42.0	2.85	2.85
PINFISH	0.33	31.0	0.82	0.82
BLUE CATFISH	1.33	116.0	25.21	95.20
BAY ANCHOVY	2.00	43.2	1.02	5.76
GRASS SHRIMP	5.33	0.0	0.00	6.70
BROWN SHRIMP	7.67	27.3	0.15	3.35
BLUE CRAB	11.33	38.6	19.32	619.29
SPOT	46.67	39.8	1.54	216.24
GULF MENHADEN	148.00	31.9	0.55	250.48
ATLANTIC CROAKER	321.00	41.0	1.47	1456.31

DENSITY OF ALL INDIVIDUALS 544.33

MEAN LENGTH OF ALL INDIVIDUALS

38.5

MEAN WEIGHT OF ALL INDIVIDUALS

4.87

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 150

TOTAL WEIGHT OF ALL INDIVIDUALS 365.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	11.0	0.61	0.61
HOGCHOKER	0.33	52.0	5.61	5.61
LINED SOLE	0.67	38.5	2.76	5.51
BLUE CATFISH	1.00	117.0	25.55	76.25
BAY ANCHOVY	2.33	37.8	0.64	5.27
GULF MENHADEN	3.00	27.6	0.29	2.71
FRESHWATER SHRIMP	6.33	0.0	0.00	25.15
BLUE CRAB	13.00	30.2	3.08	134.74
ATLANTIC CROAKER	23.00	39.1	1.60	109.48

DENSITY OF ALL INDIVIDUALS 50.00

MEAN LENGTH OF ALL INDIVIDUALS 39.2

MEAN WEIGHT OF ALL INDIVIDUALS 4.46

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 911

TOTAL WEIGHT OF ALL INDIVIDUALS 1898.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
WHITE CRAPPIE	0.33	170.0	150.00	150.00
HOGCHOKER	0.67	43.0	3.16	6.31
BROWN SHRIMP	1.33	19.5	0.05	0.27
GRASS SHRIMP	2.67	0.0	0.00	3.56
BLUE CATFISH	3.33	145.0	60.90	612.91
SPOT	4.00	34.8	1.00	13.53
FRESHWATER SHRIMP	4.33	0.0	0.00	26.10
BLUE CRAB	12.67	24.1	2.21	78.68
BAY ANCHOVY	35.67	34.0	0.54	167.99
GULF MENHADEN	116.67	32.0	0.57	209.51
ATLANTIC CROAKER	122.00	42.1	1.84	629.75

DENSITY OF ALL INDIVIDUALS 303.67

MEAN LENGTH OF ALL INDIVIDUALS 49.5

MEAN WEIGHT OF ALL INDIVIDUALS 20.02

LAVACA BAY

Trawl

DATA

DATE - 3 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 317

TOTAL WEIGHT OF ALL INDIVIDUALS 1301.84 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.33	73.0	3.02	3.02
HARDHEAD CATFISH	0.33	256.0	350.00	350.00
HOGCHOKER	0.67	85.0	29.30	58.61
NAKED GOBY	0.67	29.0	0.61	1.22
FRESHWATER SHRIMP	1.00	0.0	0.00	10.53
GULF MENHADEN	1.00	31.7	0.55	1.65
SPOT	1.00	39.5	1.53	4.81
BAY ANCHOVY	2.67	27.2	0.25	2.13
GRASS SHRIMP	3.00	0.0	0.00	4.89
BLUE CRAB	10.00	40.8	7.65	212.65
ATLANTIC CROAKER	85.00	47.6	2.55	652.33

DENSITY OF ALL INDIVIDUALS 105.67

MEAN LENGTH OF ALL INDIVIDUALS 57.3

MEAN WEIGHT OF ALL INDIVIDUALS 35.95

LAVACA BAY

Trawl

DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 150

TOTAL WEIGHT OF ALL INDIVIDUALS 365.33 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	11.0	0.61	0.61
HOGCHOKER	0.33	52.0	5.61	5.61
LINED SOLE	0.67	38.5	2.76	5.51
BLUE CATFISH	1.00	117.0	25.55	76.25
BAY ANCHOVY	2.33	37.8	0.64	5.27
GULF MENHADEN	3.00	27.6	0.29	2.71
FRESHWATER SHRIMP	6.33	0.0	0.00	25.15
BLUE CRAB	13.00	30.2	3.08	134.74
ATLANTIC CROAKER	23.00	39.1	1.60	109.48

DENSITY OF ALL INDIVIDUALS 50.00

MEAN LENGTH OF ALL INDIVIDUALS 39.2

MEAN WEIGHT OF ALL INDIVIDUALS 4.46

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 341

TOTAL WEIGHT OF ALL INDIVIDUALS 225.43 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BROWN SHRIMP	0.11	14.0	0.01	0.01
PINFISH	0.11	13.0	0.03	0.03
HARRIS' MUD CRAB	0.21	5.0	0.02	0.04
STRIPED MULLET	1.70	36.7	1.25	28.08
BAY ANCHOVY	1.91	35.4	0.64	8.85
TIDEWATER SILVERSIDE	3.94	41.1	0.85	37.30
SPOT	4.68	32.1	0.85	37.02
GRASS SHRIMP	4.79	0.0	0.00	14.90
BLUE CRAB	4.89	13.3	0.50	26.52
ATLANTIC CROAKER	5.42	38.8	1.13	56.52
GULF MENHADEN	8.51	24.8	0.21	16.16

DENSITY OF ALL INDIVIDUALS 36.27

MEAN LENGTH OF ALL INDIVIDUALS 23.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.50

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 223

TOTAL WEIGHT OF ALL INDIVIDUALS 360.56 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	41.0	1.80	1.80
GULF PIPEFISH	0.11	67.0	0.13	0.13
HARRIS' MUD CRAB	0.11	10.0	0.41	0.41
NAKED GOBY	0.32	25.8	0.36	1.03
SPOT	0.32	23.3	0.29	0.87
ROUGH SILVERSIDE	0.53	63.0	2.62	13.30
BLUE CATFISH	0.54	142.1	43.97	235.96
FRESHWATER SHRIMP	0.85	0.0	0.00	2.22
BLUE CRAB	0.85	11.4	0.22	1.95
GULF MENHADEN	1.91	22.3	0.11	2.07
ATLANTIC CROAKER	5.11	44.0	1.85	77.77
GRASS SHRIMP	12.98	0.0	0.00	23.05

DENSITY OF ALL INDIVIDUALS 23.72

MEAN LENGTH OF ALL INDIVIDUALS 37.5

MEAN WEIGHT OF ALL INDIVIDUALS 4.31

LAVACA BAY

Seine

DATA

DATE - 4 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 458

TOTAL WEIGHT OF ALL INDIVIDUALS 242.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.11	8.0	0.24	0.24
PINFISH	0.11	21.0	0.23	0.23
GULF KILLIFISH	0.21	64.0	6.86	13.71
STRIPED MULLET	0.22	23.0	0.18	0.37
SOUTHERN FLOUNDER	0.32	41.0	1.36	3.19
SPOT	0.32	19.7	0.17	0.52
BAY ANCHOVY	0.64	25.5	0.16	0.95
BLUE CRAB	1.81	22.1	13.45	162.00
ATLANTIC CROAKER	2.98	36.7	0.92	26.30
GRASS SHRIMP	3.08	0.0	0.00	7.64
GULF MENHADEN	14.26	23.5	0.14	17.97
BROWN SHRIMP	24.68	18.6	0.04	9.54

DENSITY OF ALL INDIVIDUALS 48.73

MEAN LENGTH OF ALL INDIVIDUALS

25.3

MEAN WEIGHT OF ALL INDIVIDUALS

1.98

LAVACA BAY

Seine

DATA

DATE - 4 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1212

TOTAL WEIGHT OF ALL INDIVIDUALS 866.74 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	0.21	58.5	2.24	4.48
SOUTHERN FLOUNDER	0.21	44.5	1.70	3.41
BAY WHIFF	0.22	21.0	0.16	0.32
HARRIS' MUD CRAB	0.32	8.3	0.23	0.70
FRESHWATER SHRIMP	0.42	0.0	0.00	5.13
HOGCHOKER	0.42	44.0	3.75	15.00
SPOT	2.13	27.9	0.66	15.51
BLUE CRAB	2.66	27.6	3.06	85.17
GRASS SHRIMP	2.66	0.0	0.00	10.02
BAY ANCHOVY	3.40	25.7	0.17	6.37
BROWN SHRIMP	6.28	24.4	0.10	5.99
GULF MENHADEN	12.34	24.5	0.20	21.81
ATLANTIC CROAKER	97.66	31.9	0.74	692.83

DENSITY OF ALL INDIVIDUALS 128.94

MEAN LENGTH OF ALL INDIVIDUALS

26.0

MEAN WEIGHT OF ALL INDIVIDUALS

1.00

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 146

TOTAL WEIGHT OF ALL INDIVIDUALS 34.46 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	12.0	0.21	0.21
PINFISH	0.11	17.0	0.13	0.13
BROWN SHRIMP	0.22	16.5	0.02	0.04
GULF MENHADEN	2.34	22.4	0.10	2.11
ATLANTIC CROAKER	12.77	22.9	0.28	31.97

DENSITY OF ALL INDIVIDUALS 15.53

MEAN LENGTH OF ALL INDIVIDUALS 18.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.15

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 3050

TOTAL WEIGHT OF ALL INDIVIDUALS 507.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	132.0	43.58	43.58
FRESHWATER SHRIMP	0.11	0.0	0.00	9.47
GULF KILLIFISH	0.11	64.0	6.38	6.38
GULF PIPEFISH	0.11	115.0	1.02	1.02
RED DRUM	0.11	90.0	13.96	13.96
ATLANTIC CROAKER	0.32	43.2	1.52	4.97
BLUE CRAB	0.32	9.0	0.07	0.20
BROWN SHRIMP	2.34	14.5	0.01	0.28
GRASS SHRIMP	15.21	0.0	0.00	39.26
GULF MENHADEN	82.98	21.5	0.08	67.45
BAY ANCHOVY	222.77	24.6	0.14	320.44

DENSITY OF ALL INDIVIDUALS 324.46

MEAN LENGTH OF ALL INDIVIDUALS 46.7

MEAN WEIGHT OF ALL INDIVIDUALS 6.07

LAVACA BAY

Seine

DATA

DATE - 3 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 289

TOTAL WEIGHT OF ALL INDIVIDUALS 127.22 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.11	11.0	0.02	0.02
BLACK DRUM	0.11	7.0	0.01	0.01
FRESHWATER SHRIMP	0.11	0.0	0.00	0.07
SOUTHERN FLOUNDER	0.11	28.0	0.44	0.44
STRIPED MULLET	0.11	54.0	3.97	3.97
BLUE CRAB	0.75	26.8	1.87	4.76
TIDEWATER SILVERSIDE	0.85	57.9	2.23	17.83
SPOT	1.27	37.1	1.54	18.39
GRASS SHRIMP	1.70	0.0	0.00	7.77
ATLANTIC CROAKER	2.77	38.5	1.35	56.34
BAY ANCHOVY	4.58	25.7	0.16	6.55
GULF MENHADEN	5.96	24.9	0.19	7.88
BROWN SHRIMP	12.34	17.8	0.03	3.19

DENSITY OF ALL INDIVIDUALS 30.74

MEAN LENGTH OF ALL INDIVIDUALS 25.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.91

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 57

TOTAL WEIGHT OF ALL INDIVIDUALS 12.56 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	26.0	0.17	0.17
SOUTHERN FLOUNDER	0.41	22.0	0.20	0.20
TIDEWATER SILVERSIDE	0.41	26.0	0.21	0.21
NAKED GOBY	0.83	24.5	0.36	0.71
SPOT	0.83	31.5	0.74	1.49
ATLANTIC CROAKER	1.25	23.0	0.27	1.03
BROWN SHRIMP	1.25	13.0	0.01	0.03
GULF MENHADEN	2.91	21.1	0.08	0.54
GRASS SHRIMP	4.16	0.0	0.00	3.88
BLUE CRAB	11.25	11.3	0.17	4.30

DENSITY OF ALL INDIVIDUALS 23.75

MEAN LENGTH OF ALL INDIVIDUALS 19.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.22

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 46

TOTAL WEIGHT OF ALL INDIVIDUALS 64.66 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.41	12.0	0.02	0.02
GRASS SHRIMP	0.41	0.0	0.00	0.07
SOUTHERN FLOUNDER	0.83	27.0	0.37	0.74
ATLANTIC CROAKER	1.66	21.5	0.24	0.94
GULF MENHADEN	1.66	22.5	0.12	60.00
BLUE CRAB	6.66	10.7	0.14	2.43
BROWN SHRIMP	7.50	17.1	0.03	0.46

DENSITY OF ALL INDIVIDUALS 19.16

MEAN LENGTH OF ALL INDIVIDUALS 15.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 10.81 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.41	83.0	0.22	0.22
HARRIS' MUD CRAB	0.41	7.0	0.08	0.08
GRASS SHRIMP	0.83	0.0	0.00	0.30
SOUTHERN FLOUNDER	1.25	25.5	0.34	1.06
ATLANTIC CROAKER	2.08	31.6	0.67	4.25
BLUE CRAB	5.42	11.9	0.27	3.33
BROWN SHRIMP	20.83	16.9	0.03	1.57

DENSITY OF ALL INDIVIDUALS 31.25

MEAN LENGTH OF ALL INDIVIDUALS 25.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.23

LAVACA BAY

Benthic Sled

DATA

DATE - 4 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 36

TOTAL WEIGHT OF ALL INDIVIDUALS 28.57 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.83	19.5	0.17	0.35
NAKED GOBY	1.67	26.3	0.58	2.33
FRESHWATER SHRIMP	2.91	0.0	0.00	1.46
BROWN SHRIMP	2.92	12.5	0.01	0.07
BLUE CRAB	6.67	20.4	1.52	24.36

DENSITY OF ALL INDIVIDUALS 15.01

MEAN LENGTH OF ALL INDIVIDUALS 15.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

LAVACA BAY

Benthic Sled

DATA

DATE - 3 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 20

TOTAL WEIGHT OF ALL INDIVIDUALS 3.26 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.41	8.0	0.08	0.08
SPOT	0.41	6.0	0.01	0.01
BROWN SHRIMP	1.25	12.7	0.01	0.03
ATLANTIC CROAKER	1.66	24.5	0.43	2.20
SOUTHERN FLOUNDER	4.58	16.9	0.08	0.94

DENSITY OF ALL INDIVIDUALS 8.33

MEAN LENGTH OF ALL INDIVIDUALS 13.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.12

LAVACA BAY Benthic Sled DATA

DATE - 3 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 79

TOTAL WEIGHT OF ALL INDIVIDUALS 12.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
PINFISH	0.41	11.0	0.02	0.02
SOUTHERN FLOUNDER	0.41	38.0	1.02	1.02
GULF MENHADEN	1.25	21.3	0.09	0.27
NAKED GOBY	1.25	20.8	0.19	0.54
BAY ANCHOVY	5.00	23.9	0.13	1.51
BLUE CRAB	5.83	12.7	0.21	2.75
GRASS SHRIMP	9.16	0.0	0.00	6.07
BROWN SHRIMP	9.59	14.5	0.01	0.26

DENSITY OF ALL INDIVIDUALS 32.92

MEAN LENGTH OF ALL INDIVIDUALS 17.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.21

LAVACA BAY Benthic Sled DATA

DATE - 2 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 205

TOTAL WEIGHT OF ALL INDIVIDUALS 170.28 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
DARTER GOBY	0.41	18.0	0.00	85.00
PINFISH	0.41	26.0	0.48	0.48
BAY WHIFF	0.83	18.7	0.14	0.25
TIDEWATER SILVERSIDE	0.83	55.5	1.91	3.82
SPOT	1.25	28.7	0.68	2.03
BLUE CRAB	3.33	16.3	0.66	6.01
BAY ANCHOVY	12.50	25.1	0.17	5.20
ATLANTIC CROAKER	14.16	37.9	1.25	58.46
GULF MENHADEN	21.25	23.6	0.14	6.95
BROWN SHRIMP	30.42	18.0	0.03	2.08

DENSITY OF ALL INDIVIDUALS 85.42

MEAN LENGTH OF ALL INDIVIDUALS 26.8

MEAN WEIGHT OF ALL INDIVIDUALS 0.54

LAVACA BAY Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB45

TOTAL # SPECIES - 1

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	17.81	25.2	0.00	0.00

DENSITY OF ALL INDIVIDUALS 17.81

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB603

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 97

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	3.57	22.0	0.00	0.00
ATLANTIC CROAKER	7.93	32.0	0.00	0.00
GULF MENHADEN	158.80	23.4	0.00	0.00

DENSITY OF ALL INDIVIDUALS 170.30

MEAN LENGTH OF ALL INDIVIDUALS

25.8

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 3 Apr 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 1.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	2.32	8.0	0.00	0.00
PINFISH	2.32	13.0	0.00	0.00
STRIPED MULLET	2.32	24.0	0.00	0.00
ROUGH SILVERSIDE	4.81	5.5	0.00	0.00
GRASS SHRIMP	11.60	0.0	0.00	1.13
BAY ANCHOVY	13.93	21.3	0.00	0.00
NAKED GOBY	16.94	3.2	0.00	0.00
BROWN SHRIMP	38.87	12.3	0.00	0.00
GULF MENHADEN	86.15	23.9	0.00	0.00

DENSITY OF ALL INDIVIDUALS 179.26

MEAN LENGTH OF ALL INDIVIDUALS 12.4

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 3 Apr 1985 STATION - LAB623

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 531

TOTAL WEIGHT OF ALL INDIVIDUALS 78.03 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	2.08	4.0	0.00	0.00
STRIPED MULLET	2.08	22.0	0.00	0.17
ATLANTIC CROAKER	6.37	6.2	0.00	0.02
PINFISH	6.60	13.7	0.00	0.08
SPECKLED WORM EEL	21.44	50.5	0.00	0.71
GRASS SHRIMP	62.11	0.0	0.00	7.88
BAY ANCHOVY	69.61	25.1	0.00	5.04
BROWN SHRIMP	274.39	12.9	0.00	1.04
GULF MENHADEN	700.47	24.8	0.00	63.09

DENSITY OF ALL INDIVIDUALS 1145.16

MEAN LENGTH OF ALL INDIVIDUALS

17.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB633

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 223

TOTAL WEIGHT OF ALL INDIVIDUALS 26.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	1.73	55.0	0.00	0.10
BLUE CRAB	3.46	17.5	0.00	1.16
GRASS SHRIMP	5.13	0.0	0.00	1.54
ROUGH SILVERSIDE	24.19	49.2	0.00	7.49
BAY ANCHOVY	25.67	25.3	0.00	2.36
BROWN SHRIMP	34.00	12.6	0.00	0.01
GULF MENHADEN	288.74	21.8	0.00	13.82

DENSITY OF ALL INDIVIDUALS 382.93

MEAN LENGTH OF ALL INDIVIDUALS 25.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 134

TOTAL WEIGHT OF ALL INDIVIDUALS 9.97 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ROUGH SILVERSIDE	1.58	5.0	0.00	0.00
BAY ANCHOVY	4.75	23.3	0.00	0.40
BLUE CRAB	6.33	10.7	0.00	0.06
GULF MENHADEN	199.55	22.1	0.00	9.51

DENSITY OF ALL INDIVIDUALS 212.22

MEAN LENGTH OF ALL INDIVIDUALS

15.3

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 2 Apr 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 229

TOTAL WEIGHT OF ALL INDIVIDUALS 12.51 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.61	18.0	0.00	0.00
GRASS SHRIMP	1.61	0.0	0.00	0.20
ATLANTIC CROAKER	3.20	6.5	0.00	0.00
ROUGH SILVERSIDE	8.05	4.9	0.00	0.00
BAY ANCHOVY	25.64	24.3	0.00	0.00
BROWN SHRIMP	38.47	12.7	0.00	0.00
NAKED GOBY	39.92	3.7	0.00	0.00
GULF MENHADEN	246.91	22.9	0.00	12.31

DENSITY OF ALL INDIVIDUALS 365.42

MEAN LENGTH OF ALL INDIVIDUALS 11.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 65

TOTAL WEIGHT OF ALL INDIVIDUALS 843.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.33	37.0	0.69	0.69
BLUE CRAB	1.67	19.4	0.73	3.65
BLUE CATFISH	4.67	89.6	57.57	739.55
ATLANTIC CROAKER	5.67	43.8	2.04	37.23
FRESHWATER SHRIMP	9.33	0.0	0.00	62.41

DENSITY OF ALL INDIVIDUALS 21.67

MEAN LENGTH OF ALL INDIVIDUALS 38.0

MEAN WEIGHT OF ALL INDIVIDUALS 12.21

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 911

TOTAL WEIGHT OF ALL INDIVIDUALS 2114.58 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	0.33	48.0	4.42	4.42
BLUE CATFISH	0.67	12.0	30.95	61.90
FRESHWATER SHRIMP	0.67	0.0	0.00	1.16
BLUE CRAB	7.00	40.8	6.62	144.08
SOUTHERN FLOUNDER	10.33	51.3	4.08	130.93
GROOVED SHRIMP	39.00	41.2	0.59	67.77
GULF MENHADEN	55.67	33.9	0.80	120.97
ATLANTIC CROAKER	190.00	50.1	2.84	1583.35

DENSITY OF ALL INDIVIDUALS 303.67

MEAN LENGTH OF ALL INDIVIDUALS 34.7

MEAN WEIGHT OF ALL INDIVIDUALS 6.29

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 721

TOTAL WEIGHT OF ALL INDIVIDUALS 1666.91 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	17.0	93.73	93.73
HARRIS' MUD CRAB	0.33	7.0	0.22	0.22
SPOT	0.33	43.0	2.28	2.28
BAY ANCHOVY	3.00	32.0	0.48	2.99
SAND SEATROUT	3.33	44.1	1.76	18.19
SOUTHERN FLOUNDER	4.00	48.3	12.26	279.62
BLUE CRAB	5.67	50.0	15.10	291.13
GULF MENHADEN	19.33	33.5	0.76	42.87
GROOVED SHRIMP	98.33	44.5	0.83	247.98
ATLANTIC CROAKER	105.67	46.1	2.19	687.90

DENSITY OF ALL INDIVIDUALS 240.33

MEAN LENGTH OF ALL INDIVIDUALS 36.6

MEAN WEIGHT OF ALL INDIVIDUALS 12.96

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 700

TOTAL WEIGHT OF ALL INDIVIDUALS 5000.01 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	13.0	45.26	45.26
HARRIS' MUD CRAB	0.33	12.0	0.52	0.52
SPOT	0.33	54.0	3.69	3.69
BAY ANCHOVY	1.00	37.2	0.56	1.67
BLUE CATFISH	1.33	13.8	46.48	168.97
SAND SEATROUT	3.33	56.3	5.33	45.33
BLUE CRAB	14.00	53.4	70.05	2917.34
FRESHWATER SHRIMP	16.33	0.0	0.00	169.23
ATLANTIC CROAKER	72.33	54.4	3.49	756.61
GROOVED SHRIMP	124.00	68.3	2.43	891.39

DENSITY OF ALL INDIVIDUALS 233.33

MEAN LENGTH OF ALL INDIVIDUALS 36.2

MEAN WEIGHT OF ALL INDIVIDUALS 17.78

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 553

TOTAL WEIGHT OF ALL INDIVIDUALS 1705.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARRIS' MUD CRAB	0.33	10.0	0.42	0.42
HOGCHOKER	0.33	50.0	4.77	4.77
SPOT	0.33	50.0	2.85	2.85
THREADFIN SHAD	0.33	63.0	3.65	3.65
GROOVED SHRIMP	1.00	43.7	0.76	2.64
BLUE CATFISH	2.67	76.2	46.31	429.22
GULF MENHADEN	5.33	49.9	2.49	39.33
BLUE CRAB	7.00	29.0	4.19	72.48
SAND SEATROUT	8.33	33.2	0.68	18.05
BAY ANCHOVY	11.67	40.1	0.89	32.88
FRESHWATER SHRIMP	55.33	0.0	0.00	650.40
ATLANTIC CROAKER	91.67	42.3	1.64	448.79

DENSITY OF ALL INDIVIDUALS 184.33

MEAN LENGTH OF ALL INDIVIDUALS

40.6

MEAN WEIGHT OF ALL INDIVIDUALS

5.72

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 137

TOTAL WEIGHT OF ALL INDIVIDUALS 414.48 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.00	37.7	4.21	12.64
BLUE CATFISH	1.33	11.5	32.06	117.53
GROOVED SHRIMP	1.33	45.7	0.99	3.98
SAND SEATROUT	1.33	39.0	1.05	4.20
FRESHWATER SHRIMP	7.67	0.0	0.00	76.66
BAY ANCHOVY	8.33	28.9	0.33	11.33
GULF MENHADEN	8.33	43.6	1.45	34.64
ATLANTIC CROAKER	16.33	47.9	2.59	153.50

DENSITY OF ALL INDIVIDUALS 45.67

MEAN LENGTH OF ALL INDIVIDUALS 31.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.33

LAVACA BAY

Trawl

DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 205

TOTAL WEIGHT OF ALL INDIVIDUALS 919.13 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HARDHEAD CATFISH	0.33	10.0	7.51	7.51
SAND SEATRUT	0.67	29.5	0.62	1.24
BAY ANCHOVY	2.67	34.2	0.80	8.77
BLUE CRAB	3.67	81.4	33.63	340.91
GROOVED SHRIMP	7.00	63.4	1.91	42.43
GULF MENHADEN	13.67	33.4	0.69	31.78
ATLANTIC THREADFIN	14.33	55.3	3.56	171.13
ATLANTIC CROAKER	26.00	61.7	5.63	315.36

DENSITY OF ALL INDIVIDUALS 68.33

MEAN LENGTH OF ALL INDIVIDUALS 46.1

MEAN WEIGHT OF ALL INDIVIDUALS 6.79

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 422

TOTAL WEIGHT OF ALL INDIVIDUALS 170.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	136.0	39.27	39.27
GRASS SHRIMP	0.11	0.0	0.00	0.50
MOSQUITOFISH	0.11	19.0	0.13	0.13
SAND SEATROUT	0.11	50.0	2.04	2.04
SPOT	0.11	49.0	3.11	3.11
BLUE CRAB	0.64	21.8	2.42	14.55
TIDEWATER SILVERSIDE	0.85	40.1	0.98	6.60
ATLANTIC CROAKER	1.38	55.0	3.41	41.09
GULF MENHADEN	4.25	22.2	0.14	6.74
BAY ANCHOVY	37.24	24.9	0.16	56.75

DENSITY OF ALL INDIVIDUALS 44.89

MEAN LENGTH OF ALL INDIVIDUALS 41.8

MEAN WEIGHT OF ALL INDIVIDUALS 5.17

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1261

TOTAL WEIGHT OF ALL INDIVIDUALS 514.12 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CATFISH	0.11	124.0	31.64	31.64
FRESHWATER SHRIMP	0.11	0.0	0.00	0.09
GIZZARD SHAD	0.11	32.0	0.71	0.71
HARRIS' MUD CRAB	0.11	7.0	0.18	0.18
GRASS SHRIMP	0.32	0.0	0.00	0.49
BLUE CRAB	0.64	17.8	0.60	3.58
ROUGH SILVERSIDE	0.85	55.4	1.94	14.86
SAND SEATROUT	1.59	44.3	1.58	23.76
TIDEWATER SILVERSIDE	2.23	23.3	0.17	3.26
ATLANTIC CROAKER	3.83	51.8	3.02	105.22
BROWN SHRIMP	5.85	37.2	0.43	23.63
GULF MENHADEN	20.11	24.0	0.22	43.10
BAY ANCHOVY	98.29	28.4	0.28	263.60

DENSITY OF ALL INDIVIDUALS 134.14

MEAN LENGTH OF ALL INDIVIDUALS 34.3

MEAN WEIGHT OF ALL INDIVIDUALS 3.14

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 855

TOTAL WEIGHT OF ALL INDIVIDUALS 309.71 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	56.0	4.76	4.76
SOUTHERN FLOUNDER	0.22	47.5	1.53	3.06
STRIPED MULLET	0.22	39.0	1.78	3.55
BAY ANCHOVY	0.32	19.7	0.10	0.31
TIDEWATER SILVERSIDE	0.42	22.8	0.16	0.58
GULF MENHADEN	0.64	22.1	0.14	0.98
SAND SEATROUT	0.64	24.6	0.28	1.62
BLUE CRAB	0.96	20.3	1.07	11.35
ATLANTIC CROAKER	5.42	43.8	1.66	77.36
BROWN SHRIMP	36.06	27.6	0.21	67.76
GRASS SHRIMP	45.96	0.0	0.00	138.38

DENSITY OF ALL INDIVIDUALS 90.96

MEAN LENGTH OF ALL INDIVIDUALS 29.4

MEAN WEIGHT OF ALL INDIVIDUALS 1.06

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 15

TOTAL # OF INDIVIDUALS - 582

TOTAL WEIGHT OF ALL INDIVIDUALS 313.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.11	0.0	0.00	6.97
NAKED GOBY	0.11	33.0	0.69	0.69
SKILLET FISH	0.11	9.0	0.05	0.05
BLUE CRAB	0.22	15.5	0.46	0.93
DIAMOND KILLIFISH	0.22	27.0	0.72	1.44
RED DRUM	0.22	128.0	43.61	87.21
STRIPED MULLET	0.22	42.5	3.91	7.82
BAY WHIFF	0.42	21.8	0.18	0.77
SAND SEATROUT	0.42	37.7	1.08	4.34
TIDEWATER SILVERSIDE	0.75	45.2	1.57	6.33
ATLANTIC CROAKER	4.15	35.8	1.04	40.66
BROWN SHRIMP	6.38	24.6	0.20	10.47
BAY ANCHOVY	9.79	23.0	0.14	15.23
GRASS SHRIMP	18.83	0.0	0.00	104.06
GULF MENHADEN	20.00	21.5	0.12	26.24

DENSITY OF ALL INDIVIDUALS 61.92

MEAN LENGTH OF ALL INDIVIDUALS 31.0

MEAN WEIGHT OF ALL INDIVIDUALS 3.58

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 180

TOTAL WEIGHT OF ALL INDIVIDUALS 59.94 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOT	0.11	45.0	2.16	2.16
BLUE CRAB	0.22	17.5	0.45	0.90
BROWN SHRIMP	0.54	15.8	0.05	0.31
ATLANTIC CROAKER	1.38	35.2	0.97	12.99
SAND SEATROUT	1.59	37.5	1.08	17.24
GRASS SHRIMP	2.66	0.0	0.00	11.28
BAY ANCHOVY	6.17	21.5	0.12	6.99
GULF MENHADEN	6.49	21.7	0.14	8.07

DENSITY OF ALL INDIVIDUALS 19.15

MEAN LENGTH OF ALL INDIVIDUALS 24.3

MEAN WEIGHT OF ALL INDIVIDUALS 0.62

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 5269

TOTAL WEIGHT OF ALL INDIVIDUALS 556.45 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.11	15.0	0.28	0.28
BROWN SHRIMP	0.11	38.0	0.10	0.10
GRASS SHRIMP	0.22	0.0	0.00	0.34
TIDEWATER SILVERSIDE	0.95	18.1	0.07	0.67
BAY ANCHOVY	229.15	22.6	0.12	248.15
GULF MENHADEN	330.00	21.2	0.11	306.91

DENSITY OF ALL INDIVIDUALS 560.53

MEAN LENGTH OF ALL INDIVIDUALS

19.2

MEAN WEIGHT OF ALL INDIVIDUALS

0.11

LAVACA BAY

Seine

DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 17

TOTAL # OF INDIVIDUALS - 2591

TOTAL WEIGHT OF ALL INDIVIDUALS 712.45 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF KILLIFISH	0.11	42.0	2.04	2.04
RED DRUM	0.11	112.0	26.99	26.99
SKILLET FISH	0.11	10.0	0.04	0.04
SOUTHERN FLOUNDER	0.22	37.5	0.94	1.87
PINFISH	0.42	38.3	1.95	7.67
STRIPED MULLET	0.42	22.5	0.22	0.95
BLUE CRAB	0.64	16.6	0.43	2.35
SILVER PERCH	0.64	10.4	0.04	0.19
BAY WHIFF	1.06	24.9	0.34	5.15
SPOT	1.28	45.5	2.60	31.24
TIDEWATER SILVERSIDE	1.80	39.6	1.14	19.49
SAND SEATROUT	1.81	24.1	0.32	5.77
ATLANTIC CROAKER	4.04	46.1	2.08	81.46
BROWN SHRIMP	17.55	28.1	0.24	41.25
BAY ANCHOVY	23.29	20.6	0.08	22.53
GRASS SHRIMP	107.34	0.0	0.00	371.77
GULF MENHADEN	114.79	20.5	0.08	91.69

DENSITY OF ALL INDIVIDUALS 275.63

MEAN LENGTH OF ALL INDIVIDUALS 31.7

MEAN WEIGHT OF ALL INDIVIDUALS 2.32

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 17

TOTAL WEIGHT OF ALL INDIVIDUALS 38.89 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	0.41	76.0	0.29	0.29
BAY WHIFF	0.83	33.5	0.69	1.37
BLUE CRAB	5.83	19.2	3.59	37.23

DENSITY OF ALL INDIVIDUALS 7.08

MEAN LENGTH OF ALL INDIVIDUALS 42.9

MEAN WEIGHT OF ALL INDIVIDUALS 1.52

LAVACA BAY

Benthic Sled

DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 28

TOTAL WEIGHT OF ALL INDIVIDUALS 31.61 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	18.0	0.03	0.03
BLUE CATFISH	0.41	11.0	23.76	23.76
BLUE CRAB	0.41	14.0	0.26	0.26
GRASS SHRIMP	0.41	0.0	0.00	0.19
FRESHWATER SHRIMP	0.83	0.0	0.00	1.00
GROOVED SHRIMP	9.16	32.3	0.29	6.37

DENSITY OF ALL INDIVIDUALS 11.66

MEAN LENGTH OF ALL INDIVIDUALS 12.5

MEAN WEIGHT OF ALL INDIVIDUALS 4.06

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 75

TOTAL WEIGHT OF ALL INDIVIDUALS 15.53 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	20.0	0.04	0.04
ATLANTIC CROAKER	0.83	42.5	1.66	3.32
GRASS SHRIMP	5.00	0.0	0.00	3.28
GROOVED SHRIMP	25.00	25.8	0.15	8.89

DENSITY OF ALL INDIVIDUALS 31.25

MEAN LENGTH OF ALL INDIVIDUALS 22.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.46

LAVACA BAY

Benthic Sled

DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 74

TOTAL WEIGHT OF ALL INDIVIDUALS 15.97 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
NAKED GOBY	0.41	25.0	0.40	0.40
BAY WHIFF	1.25	24.3	0.22	0.65
TIDEWATER SILVERSIDE	1.25	13.7	0.03	0.10
BAY ANCHOVY	2.91	19.2	0.05	0.34
GRASS SHRIMP	9.16	0.0	0.00	11.47
GROOVED SHRIMP	15.84	21.2	0.08	3.01

DENSITY OF ALL INDIVIDUALS 30.83

MEAN LENGTH OF ALL INDIVIDUALS 17.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 62

TOTAL WEIGHT OF ALL INDIVIDUALS 13.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GROOVED SHRIMP	0.83	28.5	0.18	0.35
NAKED GOBY	1.66	21.5	0.24	0.96
BLUE CRAB	7.08	14.3	0.27	4.56
GRASS SHRIMP	16.25	0.0	0.00	7.57

DENSITY OF ALL INDIVIDUALS 25.83

MEAN LENGTH OF ALL INDIVIDUALS 16.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.17

LAVACA BAY Benthic Sled DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 105

TOTAL WEIGHT OF ALL INDIVIDUALS 28.26 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.83	25.5	1.06	2.13
BAY WHIFF	0.83	26.0	0.29	0.59
GULF MENHADEN	0.83	19.0	0.05	0.09
SAND SEATROUT	2.08	21.0	0.14	0.71
GRASS SHRIMP	3.75	0.0	0.00	2.64
GROOVED SHRIMP	17.08	30.8	0.45	20.22
BAY ANCHOVY	18.33	18.3	0.04	1.88

DENSITY OF ALL INDIVIDUALS 43.75

MEAN LENGTH OF ALL INDIVIDUALS 20.1

MEAN WEIGHT OF ALL INDIVIDUALS 0.29

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB45

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 63

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	1.79	0.0	0.00	0.00
CLOWN GOBY	1.79	0.0	0.00	0.00
GULF MENHADEN	3.38	0.0	0.00	0.00
ROUGH SILVERSIDE	10.24	0.0	0.00	0.00
BAY ANCHOVY	92.94	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 110.14

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB603

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 83

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
CLOWN GOBY	1.91	0.0	0.00	0.00
BLUE CRAB	2.04	0.0	0.00	0.00
GULF MENHADEN	41.69	0.0	0.00	0.00
BAY ANCHOVY	52.54	0.0	0.00	0.00
ROUGH SILVERSIDE	64.78	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 162.96

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB613

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 25

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF MENHADEN	1.54	0.0	0.00	0.00
ROUGH SILVERSIDE	6.12	0.0	0.00	0.00
BAY ANCHOVY	30.48	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 38.14

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB623

TOTAL # SPECIES - 7

TOTAL # OF INDIVIDUALS - 178

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPECKLED WORM EEL	1.92	0.0	0.00	0.00
GULF MENHADEN	2.17	0.0	0.00	0.00
WHITE SHRIMP	4.10	0.0	0.00	0.00
BROWN SHRIMP	12.05	0.0	0.00	0.00
BAY ANCHOVY	38.82	0.0	0.00	0.00
CLOWN GOBY	92.02	0.0	0.00	0.00
ROUGH SILVERSIDE	212.53	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 363.62

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB633

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 951

TOTAL WEIGHT OF ALL INDIVIDUALS 13.35 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SKILLET FISH	1.57	0.0	0.00	0.00
BROWN SHRIMP	6.30	0.0	0.00	0.00
GULF MENHADEN	33.12	0.0	0.00	1.21
BAY ANCHOVY	517.26	0.0	0.00	6.43
ROUGH SILVERSIDE	940.36	0.0	0.00	5.71

DENSITY OF ALL INDIVIDUALS 1498.61

MEAN LENGTH OF ALL INDIVIDUALS

0.0

MEAN WEIGHT OF ALL INDIVIDUALS

0.00

LAVACA BAY

Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB65

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 50

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	1.66	0.0	0.00	0.00
CLOWN GOBY	1.86	0.0	0.00	0.00
SKILLETFISH	1.86	0.0	0.00	0.00
ROUGH SILVERSIDE	36.36	0.0	0.00	0.00
BAY ANCHOVY	45.67	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 87.43

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY Ichthyoplankton DATA

DATE - 7 May 1985 STATION - LAB85

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 68

TOTAL WEIGHT OF ALL INDIVIDUALS 0.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
HOGCHOKER	2.10	0.0	0.00	0.00
CLOWN GOBY	14.07	0.0	0.00	0.00
ROUGH SILVERSIDE	21.50	0.0	0.00	0.00
BAY ANCHOVY	96.85	0.0	0.00	0.00

DENSITY OF ALL INDIVIDUALS 134.53

MEAN LENGTH OF ALL INDIVIDUALS 0.0

MEAN WEIGHT OF ALL INDIVIDUALS 0.00

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 204

TOTAL WEIGHT OF ALL INDIVIDUALS 535.24 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.33	51.0	2.74	2.74
BLUE CATFISH	0.67	156.5	70.69	141.38
BLUE CRAB	0.67	26.0	1.15	2.30
FRESHWATER SHRIMP	1.00	0.0	0.00	8.77
BAY ANCHOVY	2.67	41.3	0.98	7.20
SAND SEATROUT	4.00	50.1	2.21	25.98
BROWN SHRIMP	5.67	71.1	2.74	47.19
GULF MENHADEN	53.00	45.2	1.88	299.68

DENSITY OF ALL INDIVIDUALS 68.00

MEAN LENGTH OF ALL INDIVIDUALS 55.2

MEAN WEIGHT OF ALL INDIVIDUALS 10.30

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 286

TOTAL WEIGHT OF ALL INDIVIDUALS 1669.44 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LADYFISH	0.33	103.0	11.08	11.08
SAND SEATROUT	0.33	49.0	2.32	2.32
FRESHWATER SHRIMP	1.00	0.0	0.00	5.01
GULF MENHADEN	2.00	39.6	1.36	8.06
BLUE CRAB	2.67	42.9	6.87	49.27
BLUE CATFISH	4.67	137.4	40.87	532.44
BAY ANCHOVY	5.33	35.3	0.66	9.98
SOUTHERN FLOUNDER	5.67	59.2	3.65	61.89
BROWN SHRIMP	25.00	71.5	3.04	227.11
ATLANTIC CROAKER	48.33	62.4	5.30	762.28

DENSITY OF ALL INDIVIDUALS 95.33

MEAN LENGTH OF ALL INDIVIDUALS 60.0

MEAN WEIGHT OF ALL INDIVIDUALS 7.52

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 1047

TOTAL WEIGHT OF ALL INDIVIDUALS 1922.27 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.67	61.5	4.27	8.54
SPOT	1.00	60.5	5.96	19.86
BLUE CRAB	2.00	43.2	7.15	48.98
GULF MENHADEN	3.33	59.6	4.38	21.34
SOUTHERN FLOUNDER	4.67	55.4	2.76	38.42
BAY ANCHOVY	14.67	40.3	0.87	38.14
SAND SEATROUT	23.00	52.8	2.87	200.07
ATLANTIC CROAKER	43.33	55.3	3.54	455.43
BROWN SHRIMP	256.33	57.3	1.43	1091.49

DENSITY OF ALL INDIVIDUALS 349.00

MEAN LENGTH OF ALL INDIVIDUALS

54.0

MEAN WEIGHT OF ALL INDIVIDUALS

3.69

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 493

TOTAL WEIGHT OF ALL INDIVIDUALS 2302.38 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY WHIFF	0.33	44.0	1.38	1.38
BLUE CATFISH	0.33	132.0	33.64	33.64
EURYPANOPEUS DEPRESS	0.33	18.0	1.32	1.32
HARRIS' MUD CRAB	0.33	12.0	0.24	0.24
HARDHEAD CATFISH	0.67	101.5	18.72	37.44
SPOT	0.67	70.0	9.34	18.68
HOGCHOKER	2.00	59.1	7.95	43.50
BAY ANCHOVY	4.67	37.9	1.17	17.83
BLUE CRAB	6.67	56.6	26.39	570.47
SAND SEATROUT	8.67	47.2	2.07	68.54
ATLANTIC CROAKER	54.67	60.2	4.83	794.29
BROWN SHRIMP	85.00	70.1	2.88	715.05

DENSITY OF ALL INDIVIDUALS 164.33

MEAN LENGTH OF ALL INDIVIDUALS 59.1

MEAN WEIGHT OF ALL INDIVIDUALS 9.16

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 221

TOTAL WEIGHT OF ALL INDIVIDUALS 1234.31 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.33	0.0	0.00	4.25
GULF MENHADEN	0.33	78.0	8.37	8.37
BAY WHIFF	0.67	56.0	2.85	5.70
BLUE CRAB	0.67	54.5	17.41	34.82
BLUE CATFISH	1.33	160.5	76.73	324.32
ATLANTIC THREADFIN	1.67	71.0	8.56	45.84
SAND SEATROUT	5.67	63.9	6.32	118.12
BROWN SHRIMP	24.00	76.2	3.69	250.85
ATLANTIC CROAKER	39.00	55.9	3.70	442.04

DENSITY OF ALL INDIVIDUALS 73.67

MEAN LENGTH OF ALL INDIVIDUALS 68.5

MEAN WEIGHT OF ALL INDIVIDUALS 14.18

LAVACA BAY

Trawl

DATA

DATE - 4 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 6

TOTAL # OF INDIVIDUALS - 33

TOTAL WEIGHT OF ALL INDIVIDUALS 116.68 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLUE CRAB	0.33	44.0	5.07	5.07
SAND SEATROUT	0.67	78.5	8.95	17.90
ATLANTIC CROAKER	1.33	61.0	5.26	21.89
BROWN SHRIMP	2.00	77.3	3.58	21.45
GULF MENHADEN	3.00	56.4	3.91	38.56
BAY ANCHOVY	3.67	43.3	1.41	11.81

DENSITY OF ALL INDIVIDUALS 11.00

MEAN LENGTH OF ALL INDIVIDUALS 60.1

MEAN WEIGHT OF ALL INDIVIDUALS 4.70

LAVACA BAY

Trawl

DATA

DATE - 5 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 12

TOTAL # OF INDIVIDUALS - 395

TOTAL WEIGHT OF ALL INDIVIDUALS 2684.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.33	0.0	0.00	6.59
GRASS SHRIMP	0.33	0.0	0.00	0.44
HARDHEAD CATFISH	0.33	140.0	42.37	42.37
PINFISH	0.33	64.0	8.69	8.69
ATLANTIC THREADFIN	0.67	82.0	12.82	25.63
SPOT	1.00	69.0	8.12	24.35
SILVER PERCH	1.33	25.7	0.48	2.05
BLUE CRAB	2.33	90.6	66.11	582.96
SAND SEATROUT	10.33	48.0	1.99	55.16
GULF MENHADEN	19.00	83.0	9.58	572.83
BROWN SHRIMP	24.67	76.0	3.37	243.34
ATLANTIC CROAKER	71.00	63.1	5.11	1119.95

DENSITY OF ALL INDIVIDUALS 131.67

MEAN LENGTH OF ALL INDIVIDUALS

61.8

MEAN WEIGHT OF ALL INDIVIDUALS

13.22

LAVACA BAY

Seine

DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 375

TOTAL WEIGHT OF ALL INDIVIDUALS 186.10 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GULF PIPEFISH	0.11	103.0	0.91	0.91
SILVER PERCH	0.11	28.0	0.54	0.54
ATLANTIC NEEDLEFISH	0.22	63.0	0.38	0.76
STRIPED MULLET	0.32	65.0	7.27	21.82
SPOT	0.53	62.6	6.47	32.35
ATLANTIC CROAKER	0.54	64.7	5.90	29.55
BLUE CRAB	0.75	10.7	0.07	0.49
BROWN SHRIMP	0.75	68.7	2.48	17.62
GULF MENHADEN	0.75	25.6	0.29	2.00
TIDEWATER SILVERSIDE	5.85	25.3	0.24	12.12
BAY ANCHOVY	30.00	23.2	0.20	67.94

DENSITY OF ALL INDIVIDUALS 39.89

MEAN LENGTH OF ALL INDIVIDUALS 49.1

MEAN WEIGHT OF ALL INDIVIDUALS 2.25

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 10

TOTAL # OF INDIVIDUALS - 596

TOTAL WEIGHT OF ALL INDIVIDUALS 1092.99 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.11	0.0	0.00	0.77
STRIPED MULLET	0.11	65.0	7.80	7.80
ATLANTIC CROAKER	0.22	65.0	5.72	11.43
LADYFISH	0.32	62.2	2.75	9.70
GULF MENHADEN	0.53	25.5	0.29	1.40
BLUE CRAB	1.81	10.6	0.07	1.04
BLUE CATFISH	2.12	105.1	18.57	380.09
ROUGH SILVERSIDE	5.74	43.4	1.15	58.37
BROWN SHRIMP	10.00	82.0	4.15	390.12
BAY ANCHOVY	42.45	33.9	0.56	232.27

DENSITY OF ALL INDIVIDUALS 63.40

MEAN LENGTH OF ALL INDIVIDUALS 49.3

MEAN WEIGHT OF ALL INDIVIDUALS 4.11

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1475

TOTAL WEIGHT OF ALL INDIVIDUALS 1071.94 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOTTED SEATROUT	0.22	9.0	0.01	0.02
TIDEWATER SILVERSIDE	0.22	20.0	0.08	0.16
ROUGH SILVERSIDE	0.32	35.3	0.56	1.68
ATLANTIC CROAKER	0.64	51.0	2.73	17.02
HARRIS' MUD CRAB	0.64	6.0	0.14	0.81
NAKED GOBY	1.06	18.8	0.14	1.26
GRASS SHRIMP	1.70	0.0	0.00	4.89
SAND SEATROUT	2.13	33.9	0.71	14.43
SILVER PERCH	2.98	25.4	0.44	12.44
BLUE CRAB	3.20	10.5	0.05	1.59
BROWN SHRIMP	22.76	49.7	1.13	204.86
BAY ANCHOVY	53.72	23.0	0.16	65.89
GULF MENHADEN	67.34	38.6	1.12	746.89

DENSITY OF ALL INDIVIDUALS 156.92

MEAN LENGTH OF ALL INDIVIDUALS

24.7

MEAN WEIGHT OF ALL INDIVIDUALS

0.56

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 8

TOTAL # OF INDIVIDUALS - 2204

TOTAL WEIGHT OF ALL INDIVIDUALS 351.21 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.11	69.0	7.99	7.99
HARRIS' MUD CRAB	0.21	6.5	0.10	0.20
GULF MENHADEN	0.64	27.3	0.41	3.66
BROWN SHRIMP	0.85	33.6	0.45	4.25
ROUGH SILVERSIDE	4.15	32.0	0.58	13.75
BLUE CRAB	5.43	9.2	0.05	2.46
GRASS SHRIMP	7.55	0.0	0.00	30.60
BAY ANCHOVY	215.53	23.7	0.20	288.30

DENSITY OF ALL INDIVIDUALS 234.47

MEAN LENGTH OF ALL INDIVIDUALS 25.2

MEAN WEIGHT OF ALL INDIVIDUALS 1.22

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 9

TOTAL # OF INDIVIDUALS - 260

TOTAL WEIGHT OF ALL INDIVIDUALS 54.95 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BLACK DRUM	0.11	39.0	1.44	1.44
GULF MENHADEN	0.11	52.0	2.50	2.50
SAND SEATROUT	0.22	55.0	2.68	5.63
SKILLET FISH	0.22	19.5	0.28	0.56
GRASS SHRIMP	0.32	0.0	0.00	1.34
ROUGH SILVERSIDE	0.42	21.0	0.13	0.53
BROWN SHRIMP	1.49	38.6	0.91	12.68
BAY ANCHOVY	11.17	27.0	0.26	26.41
BLUE CRAB	13.62	8.1	0.03	3.86

DENSITY OF ALL INDIVIDUALS 27.66

MEAN LENGTH OF ALL INDIVIDUALS 28.9

MEAN WEIGHT OF ALL INDIVIDUALS 0.91

LAVACA BAY

Seine

DATA

DATE - 5 Jun 1985 STATION - LAB65

TOTAL # SPECIES - 11

TOTAL # OF INDIVIDUALS - 1081

TOTAL WEIGHT OF ALL INDIVIDUALS 313.25 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
SPOTFIN MOJARRA	0.11	11.0	0.02	0.02
ATLANTIC CROAKER	0.32	75.3	9.27	27.80
GULF PIPEFISH	0.32	86.0	0.52	1.43
LADYFISH	0.32	84.5	8.39	25.81
BLUE CRAB	1.17	16.5	3.18	50.77
GULF MENHADEN	1.17	23.2	0.24	2.60
GRASS SHRIMP	2.02	0.0	0.00	6.39
SILVER PERCH	2.23	29.5	0.66	13.64
BROWN SHRIMP	9.36	42.4	0.81	75.40
TIDEWATER SILVERSIDE	12.55	25.3	0.22	18.27
BAY ANCHOVY	85.43	22.0	0.13	91.12

DENSITY OF ALL INDIVIDUALS 115.00

MEAN LENGTH OF ALL INDIVIDUALS

37.8

MEAN WEIGHT OF ALL INDIVIDUALS

2.13

LAVACA BAY

Seine

DATA

DATE - 7 Jun 1985 STATION - LAB85

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 1558

TOTAL WEIGHT OF ALL INDIVIDUALS 477.36 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
LADYFISH	0.11	32.0	0.08	0.08
PINFISH	0.11	56.0	5.48	5.48
SPOTTED SEATROUT	0.11	28.0	0.39	0.39
STRIPED ANCHOVY	0.11	40.0	0.69	0.69
BLUE CRAB	0.21	12.0	0.07	0.13
GULF MENHADEN	0.32	21.0	0.14	0.43
STRIPED MULLET	0.32	68.3	8.26	24.79
ROUGH SILVERSIDE	0.64	48.7	2.34	14.05
ATLANTIC CROAKER	0.96	62.6	4.91	48.15
SPOT	1.17	58.7	5.43	54.77
GRASS SHRIMP	1.91	0.0	0.00	4.27
BROWN SHRIMP	14.58	50.1	1.44	188.20
BAY ANCHOVY	145.21	20.7	0.09	135.93

DENSITY OF ALL INDIVIDUALS 165.74

MEAN LENGTH OF ALL INDIVIDUALS 38.3

MEAN WEIGHT OF ALL INDIVIDUALS 2.25

LAVACA BAY Benthic Sled DATA

DATE - 4 Jun 1985 STATION - LAB45

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 17

TOTAL WEIGHT OF ALL INDIVIDUALS 8.29 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	1.25	18.3	0.07	0.22
BROWN SHRIMP	1.25	65.7	2.31	7.07
NAKED GOBY	2.08	13.2	0.06	0.27
BLUE CRAB	2.50	11.6	0.14	0.73

DENSITY OF ALL INDIVIDUALS 7.08

MEAN LENGTH OF ALL INDIVIDUALS 27.2

MEAN WEIGHT OF ALL INDIVIDUALS 0.64

LAVACA BAY Benthic Sled DATA

DATE - 4 Jun 1985 STATION - LAB603

TOTAL # SPECIES - 4

TOTAL # OF INDIVIDUALS - 12

TOTAL WEIGHT OF ALL INDIVIDUALS 8.93 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
FRESHWATER SHRIMP	0.41	0.0	0.00	0.61
BLUE CRAB	0.83	9.5	0.06	0.12
NAKED GOBY	1.67	14.8	0.09	0.35
BROWN SHRIMP	2.08	53.9	1.30	7.85

DENSITY OF ALL INDIVIDUALS 5.00

MEAN LENGTH OF ALL INDIVIDUALS 19.5

MEAN WEIGHT OF ALL INDIVIDUALS 0.36

LAVACA BAY Benthic Sled DATA

DATE - 7 Jun 1985 STATION - LAB613

TOTAL # SPECIES - 5

TOTAL # OF INDIVIDUALS - 57

TOTAL WEIGHT OF ALL INDIVIDUALS 16.00 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
GRASS SHRIMP	0.83	0.0	0.00	0.04
BAY ANCHOVY	1.25	19.5	0.07	0.18
BLUE CRAB	2.50	11.4	0.08	0.37
NAKED GOBY	3.33	11.8	0.04	0.36
BROWN SHRIMP	15.84	30.8	0.45	15.05

DENSITY OF ALL INDIVIDUALS 23.76

MEAN LENGTH OF ALL INDIVIDUALS 14.7

MEAN WEIGHT OF ALL INDIVIDUALS 0.13

LAVACA BAY

Benthic Sled

DATA

DATE - 6 Jun 1985 STATION - LAB623

TOTAL # SPECIES - 13

TOTAL # OF INDIVIDUALS - 151

TOTAL WEIGHT OF ALL INDIVIDUALS 81.02 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
ATLANTIC CROAKER	0.41	66.0	5.03	5.03
BAY WHIFF	0.41	44.0	1.55	1.55
BLACK DRUM	0.41	40.0	1.39	1.39
CHAIN PIPEFISH	0.41	62.0	0.07	0.07
NAKED GOBY	0.41	21.0	0.19	0.19
SPOTFIN MOJARRA	0.41	12.0	0.03	0.03
STONE CRAB	0.41	12.0	0.19	0.19
WHITE SHRIMP	0.41	8.0	0.01	0.01
SKILLETFISH	0.83	21.0	0.29	0.57
HARRIS' MUD CRAB	2.08	6.9	0.13	0.71
BLUE CRAB	9.16	12.7	0.51	16.98
BROWN SHRIMP	22.50	40.8	0.61	29.56
GRASS SHRIMP	25.00	0.0	0.00	24.74

DENSITY OF ALL INDIVIDUALS 62.91

MEAN LENGTH OF ALL INDIVIDUALS 26.6

MEAN WEIGHT OF ALL INDIVIDUALS 0.77

LAVACA BAY Benthic Sled DATA

DATE - 5 Jun 1985 STATION - LAB633

TOTAL # SPECIES - 3

TOTAL # OF INDIVIDUALS - 6

TOTAL WEIGHT OF ALL INDIVIDUALS 6.78 GRAMS

SPECIES	MEAN DENSITY	MEAN LENGTH	MEAN WEIGHT	TOTAL WEIGHT
BAY ANCHOVY	0.41	30.0	0.34	0.34
BROWN SHRIMP	0.83	74.0	3.12	6.23
BLUE CRAB	1.25	9.0	0.07	0.21

DENSITY OF ALL INDIVIDUALS 2.50

MEAN LENGTH OF ALL INDIVIDUALS 37.7

MEAN WEIGHT OF ALL INDIVIDUALS 1.17

FINAL REPORT

Data Synthesis and Analysis

Nitrogen Processes Study (NIPS)

Nutrient Distributions and Dynamics in Lavaca, San Antonio and
Nueces/Corpus Christi Bays in Relation to Freshwater Inflow

Part III: Data Plots

by

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Marine Science Institute

The University of Texas at Austin

Port Aransas, Texas 78373-1267

for

Bays and Estuaries Program

Environmental Systems Section

Texas Water Development Board

P. O. Box 13231 Capitol Station

Austin, Texas 78711-3231

December 1989

The University of Texas Marine Science Institute

Technical Report No. TR/89-007

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13-15 July 1987

Station C

28-29 January 1987

8-10 April 1987

15-17 July 1987

7-8 July 1988

Time Series Plots - Nueces/Corpus Christi Bays (NIPS-II)

Station A

20-21 October 1987

8-9 December 1987

16-17 February 1988

9-10 May 1988

11-12 July 1988

Station B

21 October 1987

9-10 December 1987

17-18 February 1988

12-13 April 1988

11-12 May 1988

10-11 July 1988

Station C

19-20 October 1987

7-8 December 1987

15-16 February 1988

11-12 April 1988

ACKNOWLEDGEMENT

In response to House Bill 2 (1985) and Senate Bill 683(1987), as enacted by the Texas Legislature, the Texas Parks and Wildlife Department and the Texas Water Development Board must maintain a continuous data collection and analytical study program on the effects of and needs for freshwater inflow to the State's bays and estuaries. As part of the mandated study program. This research project was funded through the Board's Water Research and Planning Fund, authorized under Texas Water Code Sections 15.402 and 16.058(e), and administered by the Department under interagency cooperative contract Nos. 9-483-705, 9-483-706, and 8-483-607.

Station D

22 October 1987
10 December 1987
18-19 February 1988
14-15 April 1988
12-13 May 1988
13-14 July 1988

Property - Property Plots - San Antonio Bay

Nitrate - Salinity (November 1986 - July 1988)
Nitrate - Chlorophyll (November 1986 - July 1988)

Property - Property Plots - Nueces/Corpus Christi Bay

Nitrate - Salinity (September 1987 - August 1988)
Nitrate - Chlorophyll (September 1987 - August 1988)

INTRODUCTION

This volume contains time series data plots obtained on experimental stations during intensive process oriented samplings. Suitable shipboard space was not available during the initial phase of NIPS-I in San Antonio Bay so the temporal resolution was relatively poor. Later samplings at station locations A and C improved to hourly samples for as long as 24 hours, however sites B and D were still sampled by small boat so darkness and inclement weather prevented some collections. Better ship availability reduced these problems during NIPS-II in Nueces/Corpus Christi Bays. Additional details of sampling and analysis methods are given in Volume 1 of this report and tabular listings are contained in Part III.

The other parts of this final report are:

Part I - Results and Discussion

Parts II - Hydrography, Nutrient and Chlorophyll data Tables

STA	DATE m	TIME local	LAT N	LON W	TEMP °C	SAL ppt	SIGMA-t density
-----	-----------	---------------	----------	----------	------------	------------	--------------------

NO3 μmole/1	NO2 μmole/1	NH4 μmole/1	PO4 μmole/1	SIO4 μmole/1	Chl a ug/l1	Phaeo ug/l	Oxygen ppm
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Secchi cm	Trans percent	Depth m
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Note: Salinity was measured with several often simultaneous techniques. Each type is listed separately in the data tables under the following classifications.

Sal-C This is an *in situ* measurement of conductivity from the model 4000 Hydrolab which is corrected to 25°C. The conductivity was then converted to salinity using the practical salinity scale.

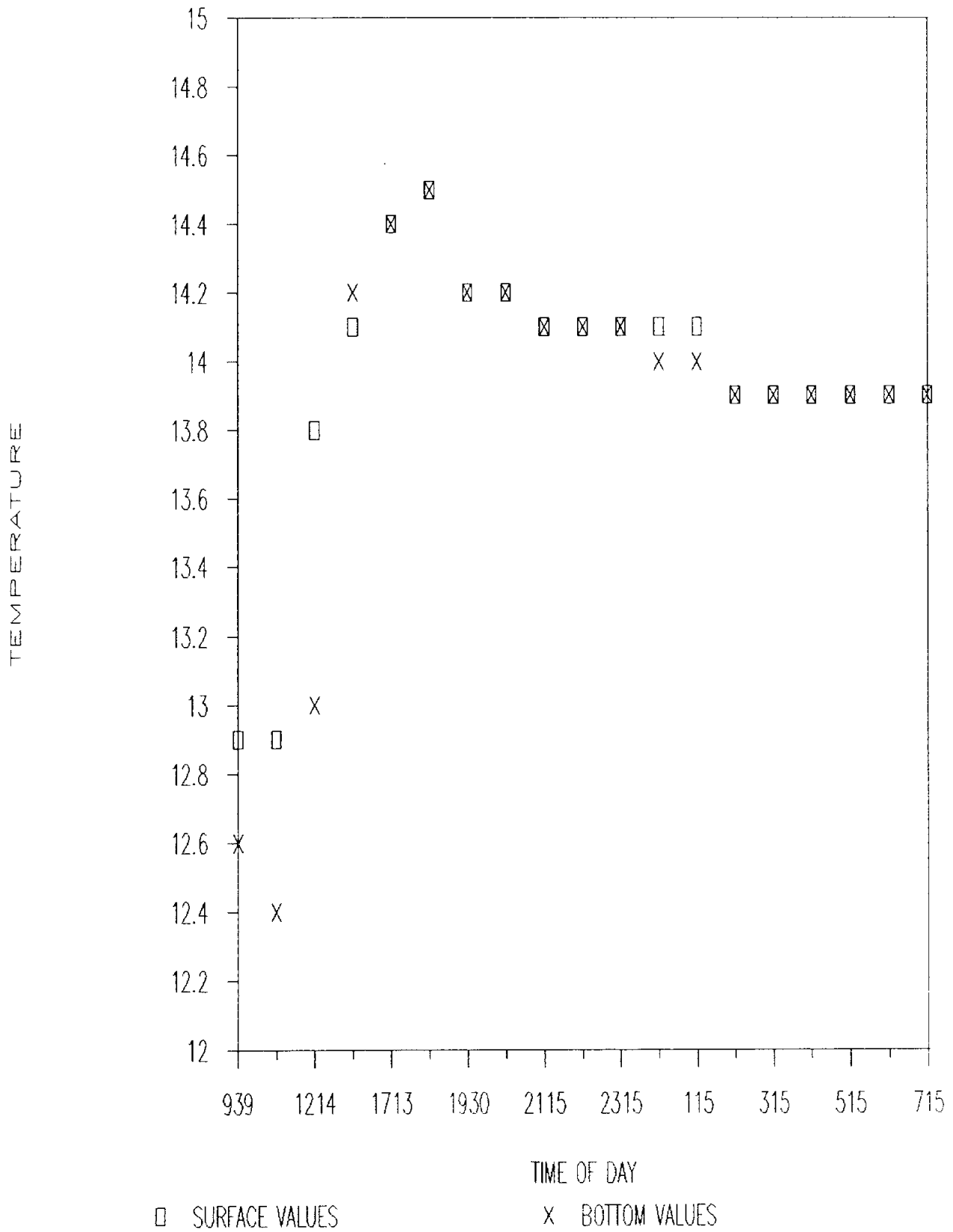
Sal-CTD This is an *in situ* measurement of conductivity from the Seabird model Seacat which is a new high precision instrument (0.003 ppt). Salinity is then calculated as a function of depth (pressure) and temperature.

Sal-R This is salinity as determined by a hand refractometer.

Sal-B This is salinity as determined from bottle samples that were collected in the field and returned to the lab and analyzed for conductivity ratio by the AGE Minisal salinometer. The best accuracy is about 0.0005 ppt.

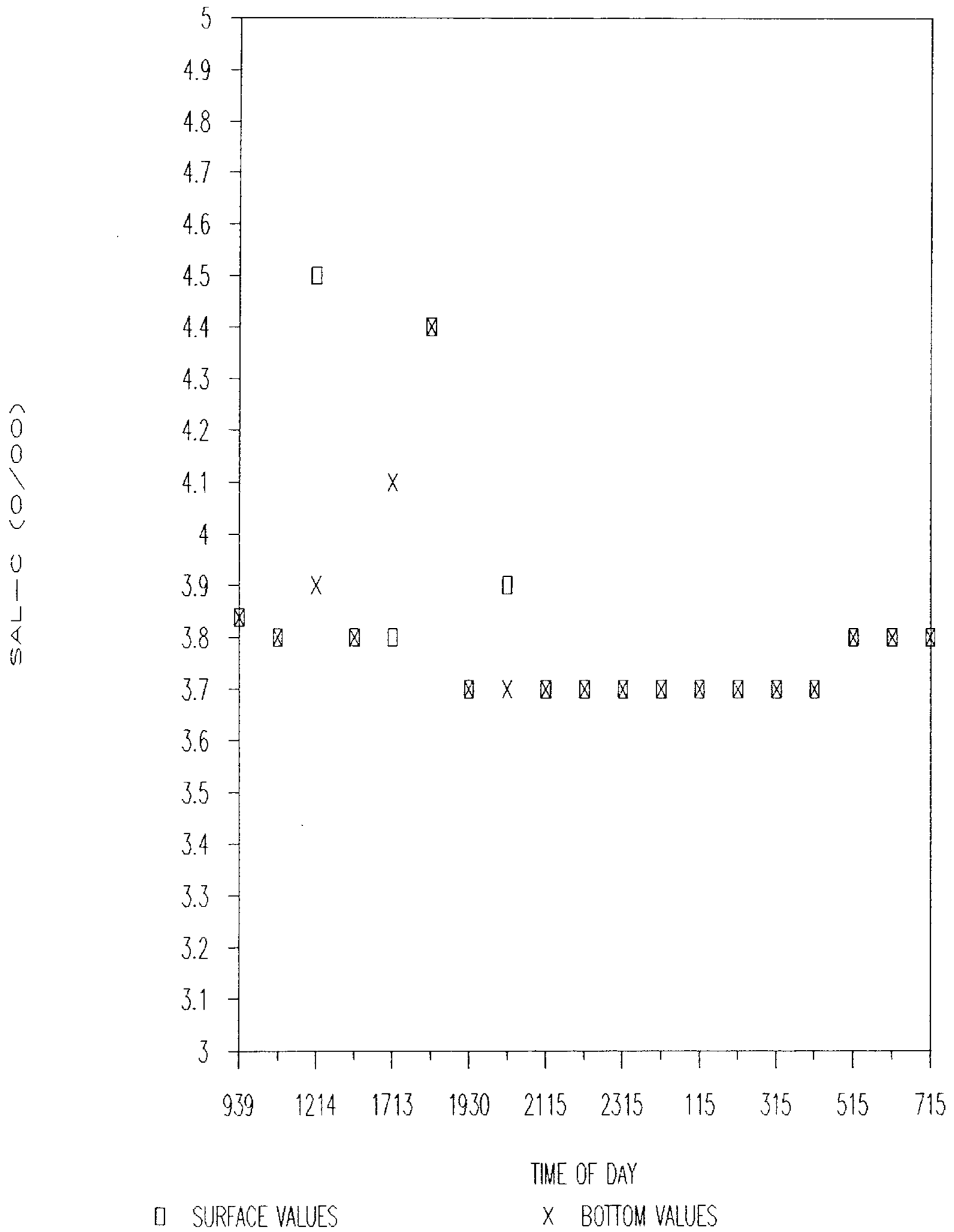
SAN ANTONIO BAY

JAN 1987 STATION A



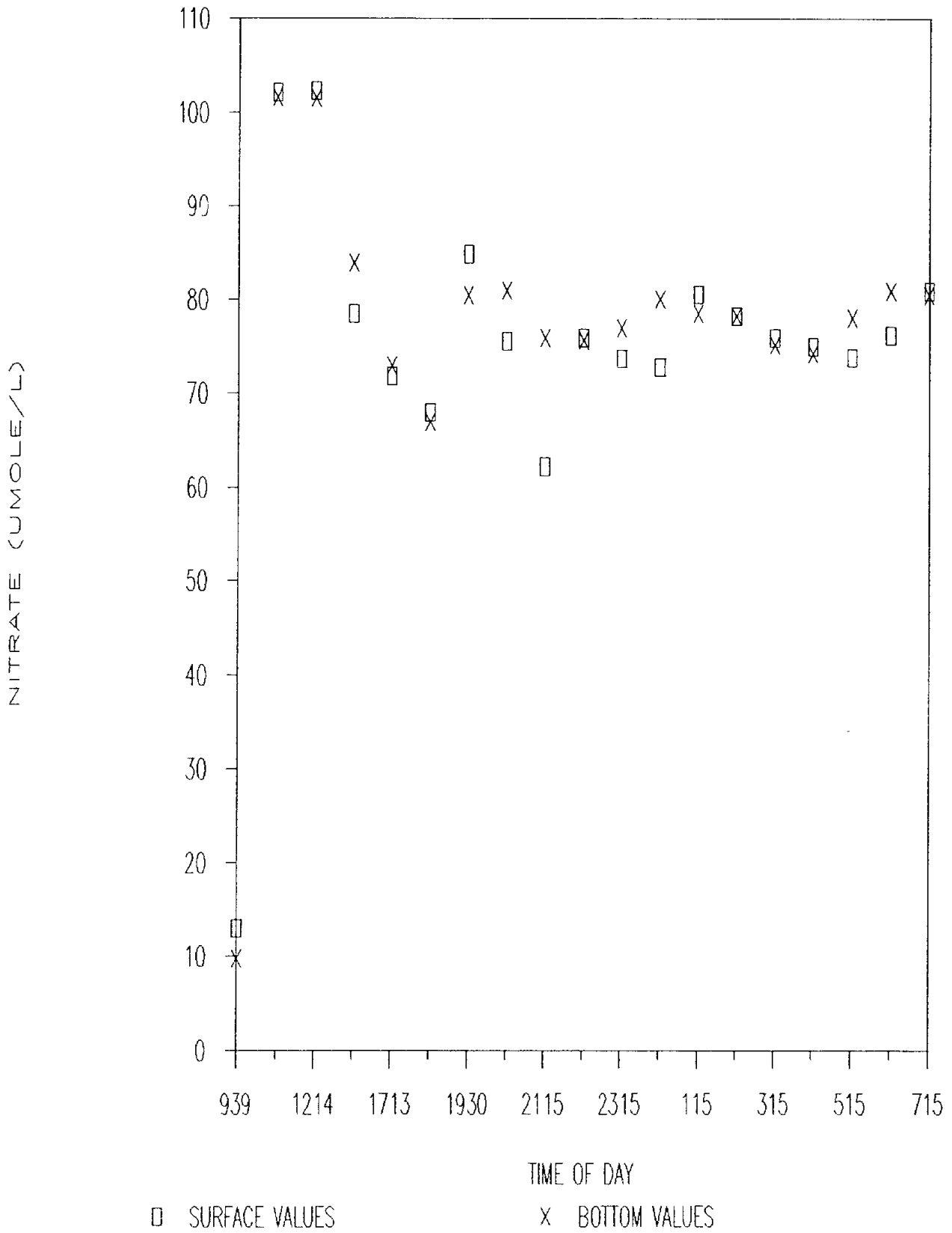
SAN ANTONIO BAY

JAN 1987 STATION A



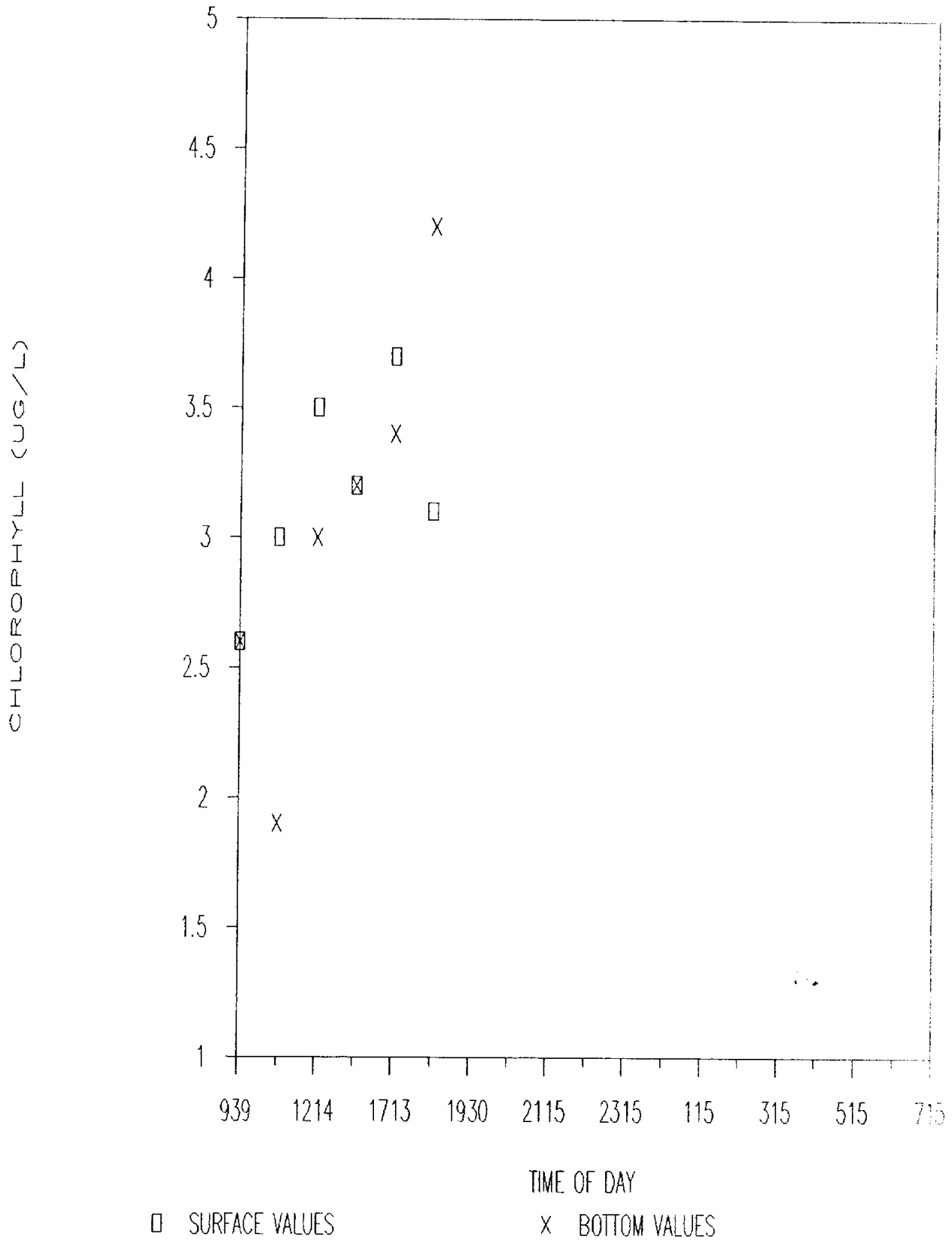
SAN ANTONIO BAY

JAN 1987 STATION A



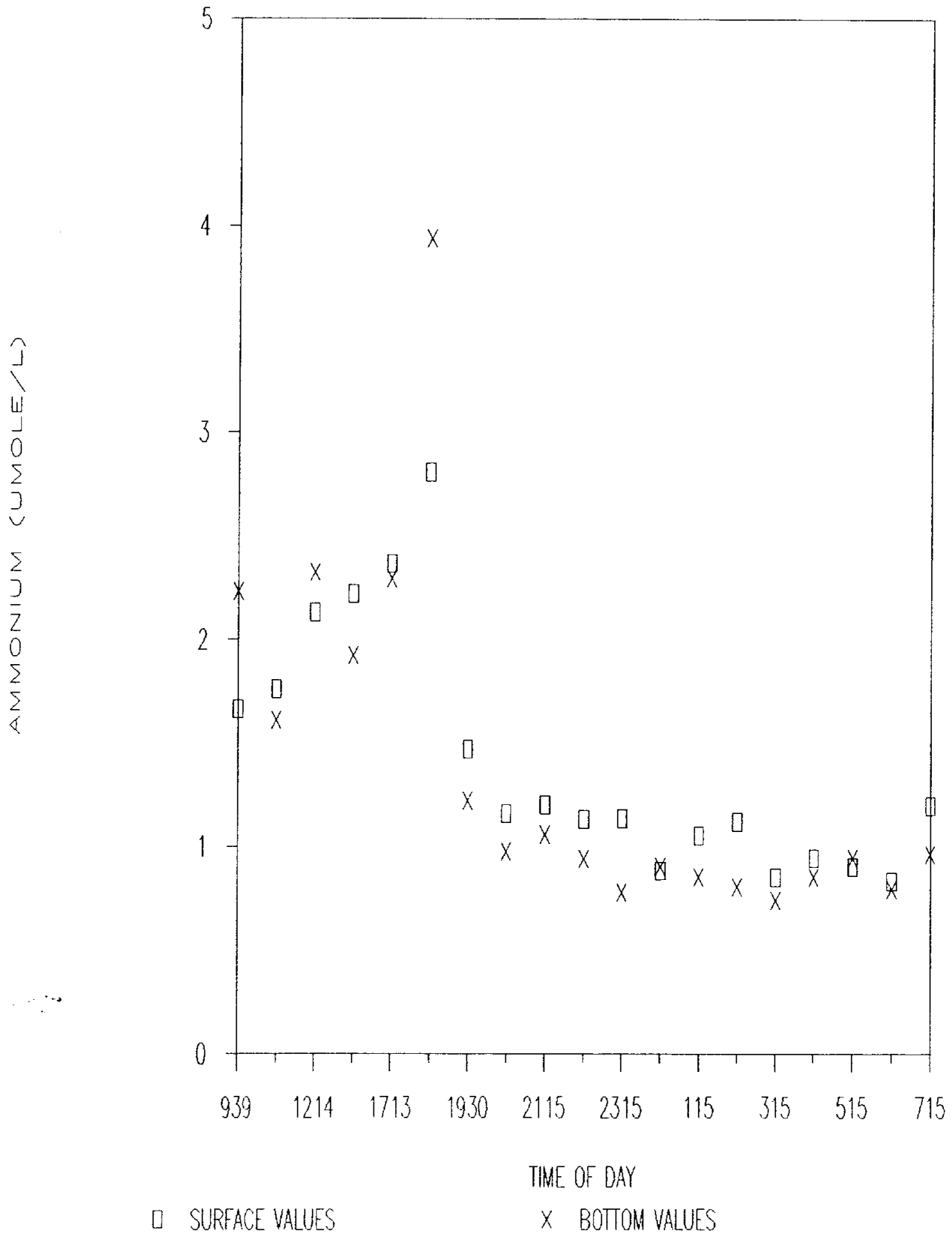
SAN ANTONIO BAY

JAN 1987 STATION A



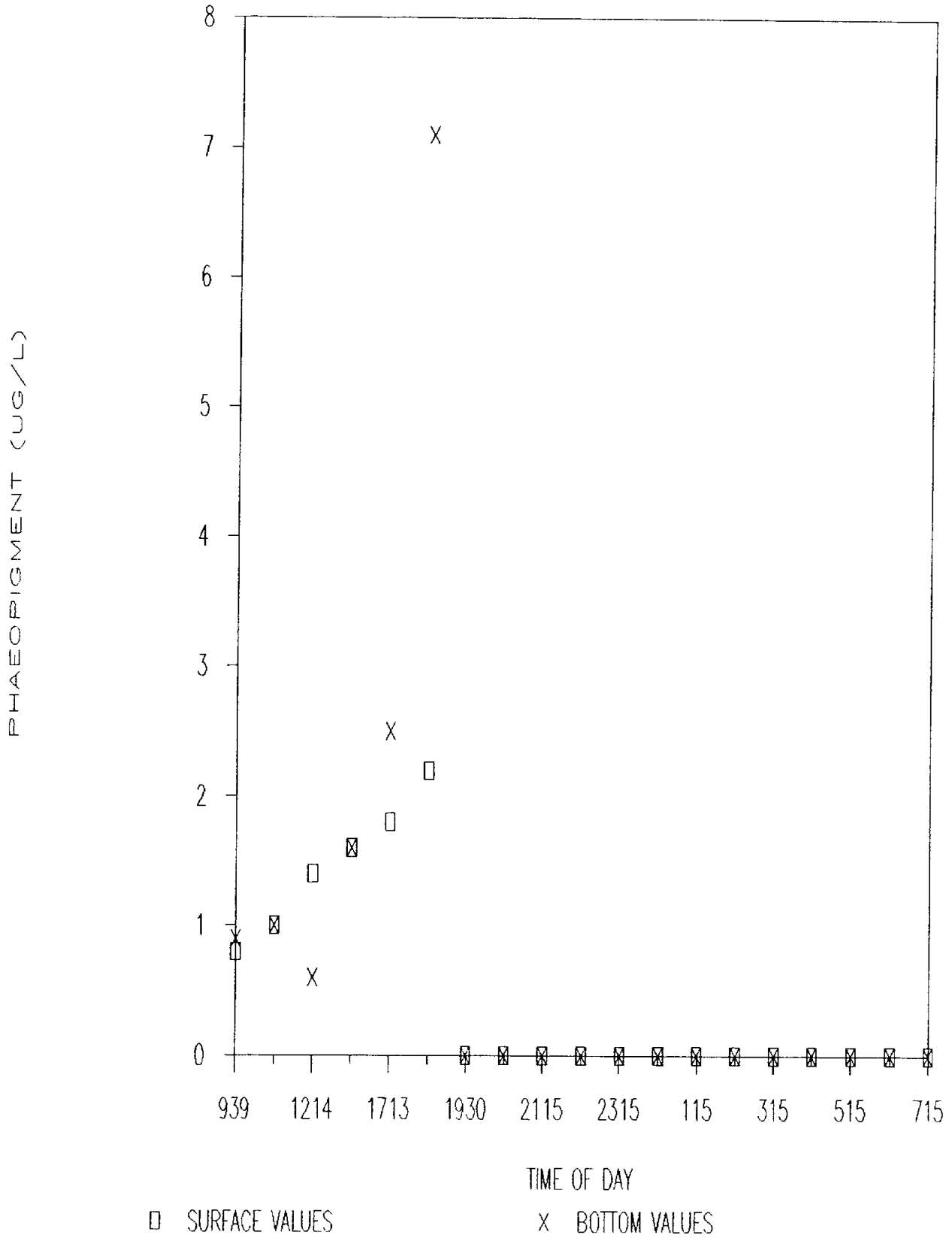
SAN ANTONIO BAY

JAN 1987 STATION A



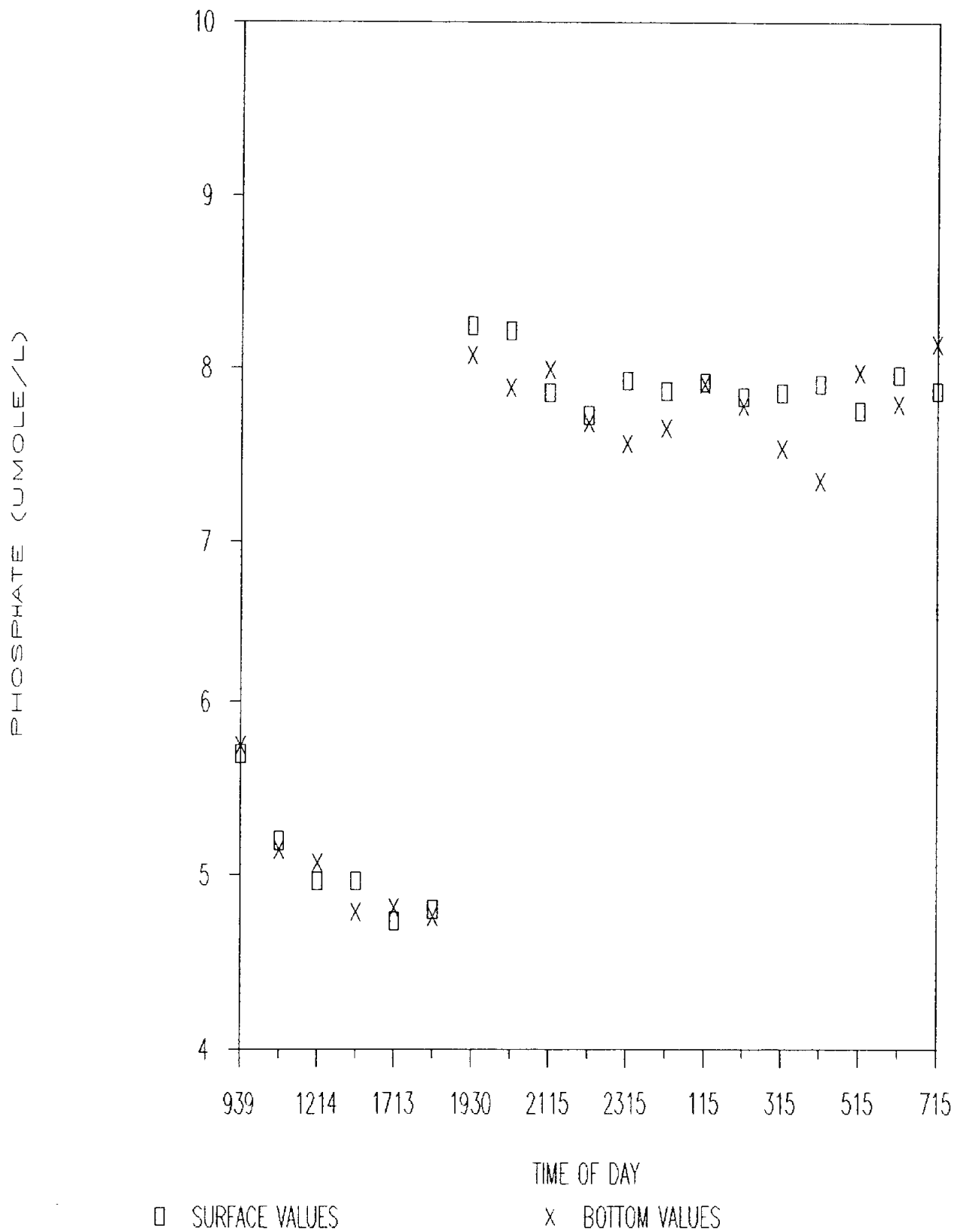
SAN ANTONIO BAY

JAN 1987 STATION A



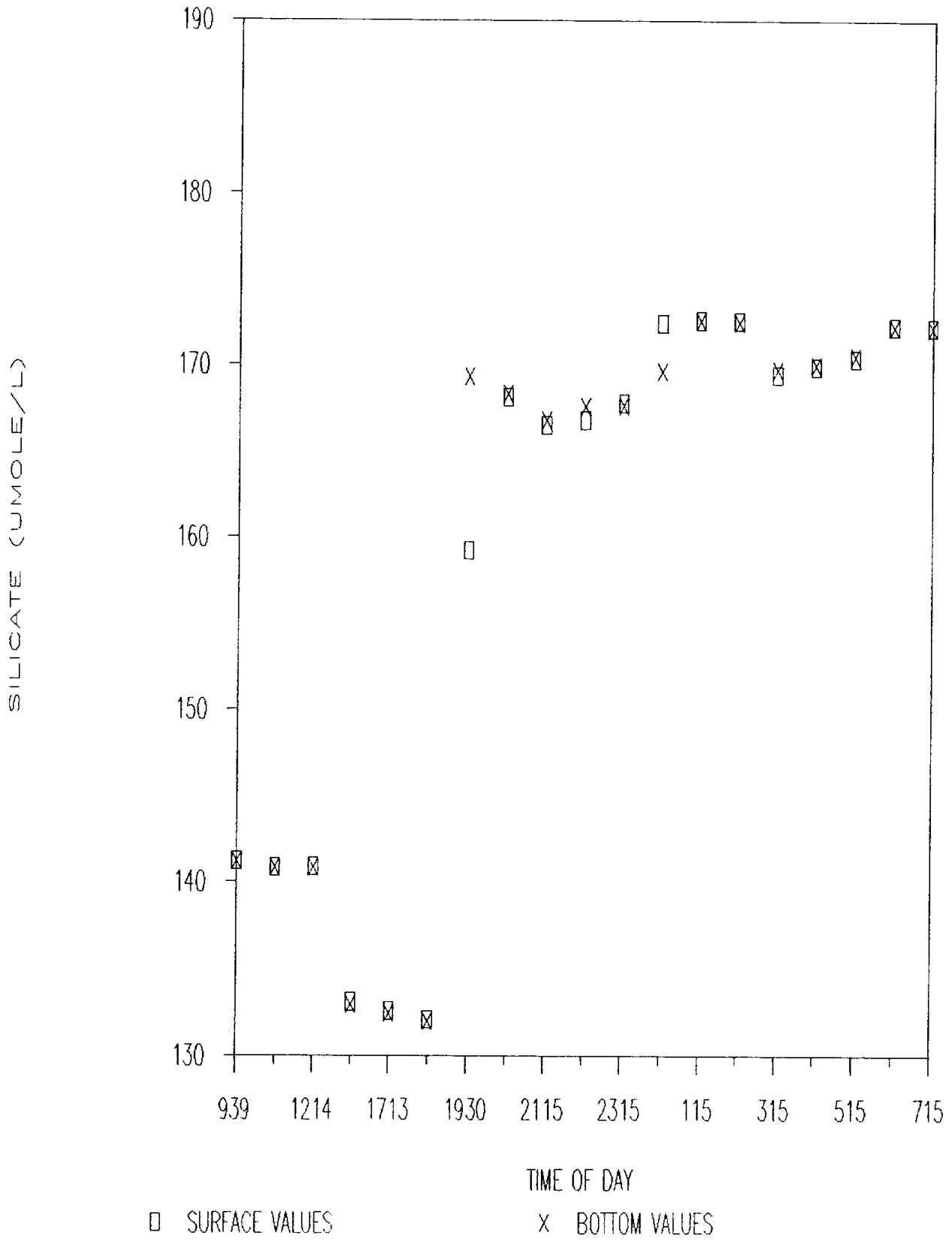
SAN ANTONIO BAY

JAN 1987 STATION A



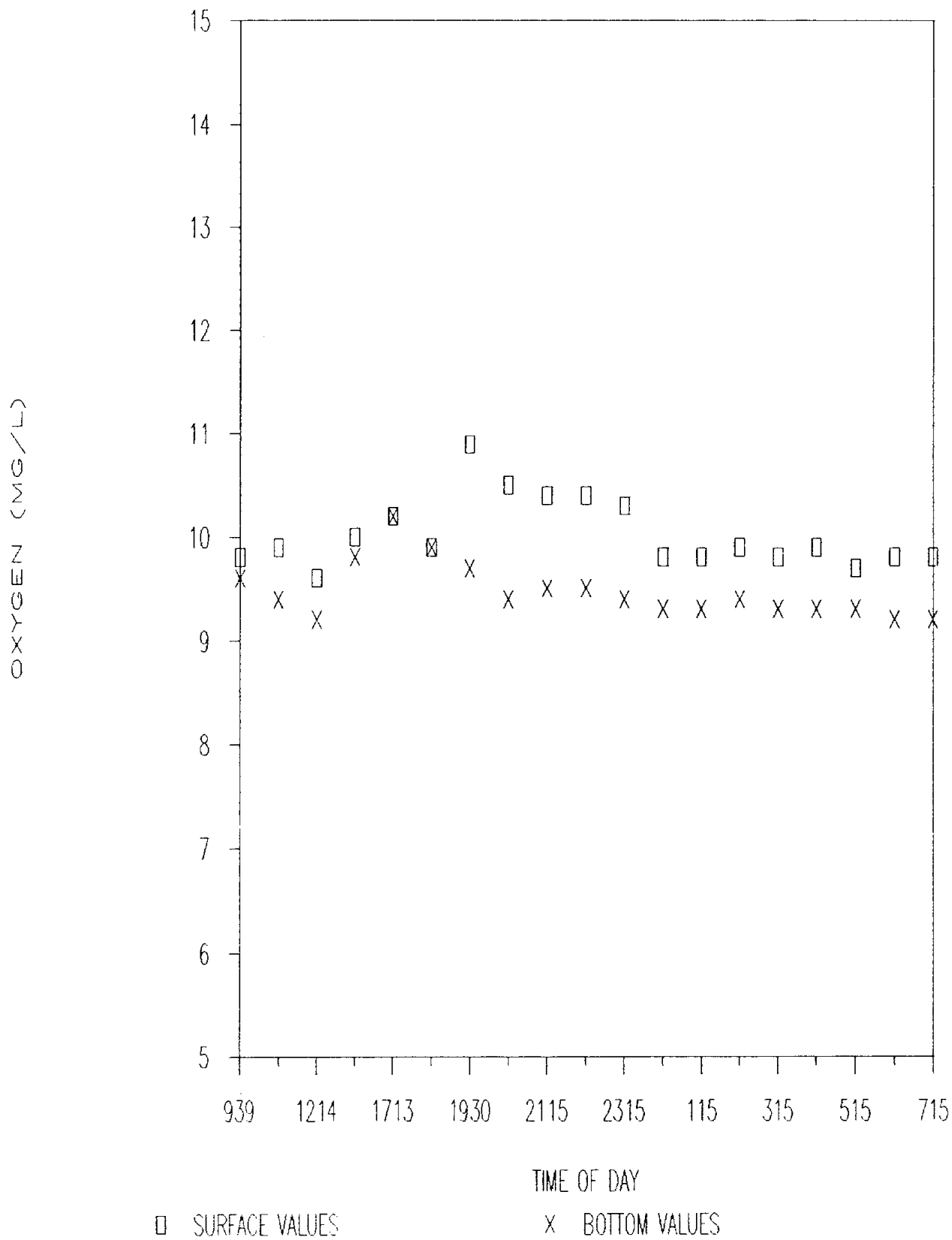
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JAN 1987 STATION A



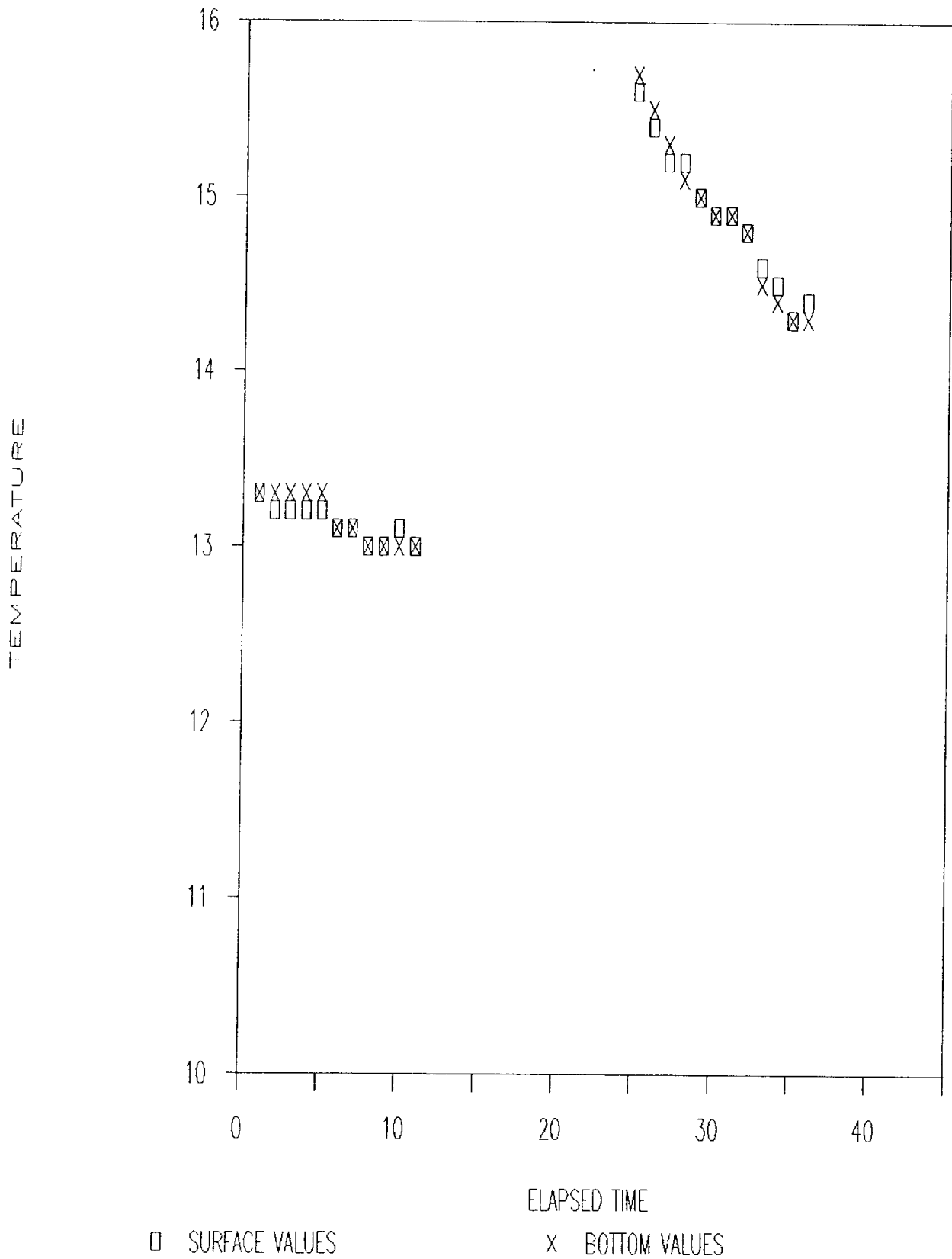
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JAN 1987 STATION A



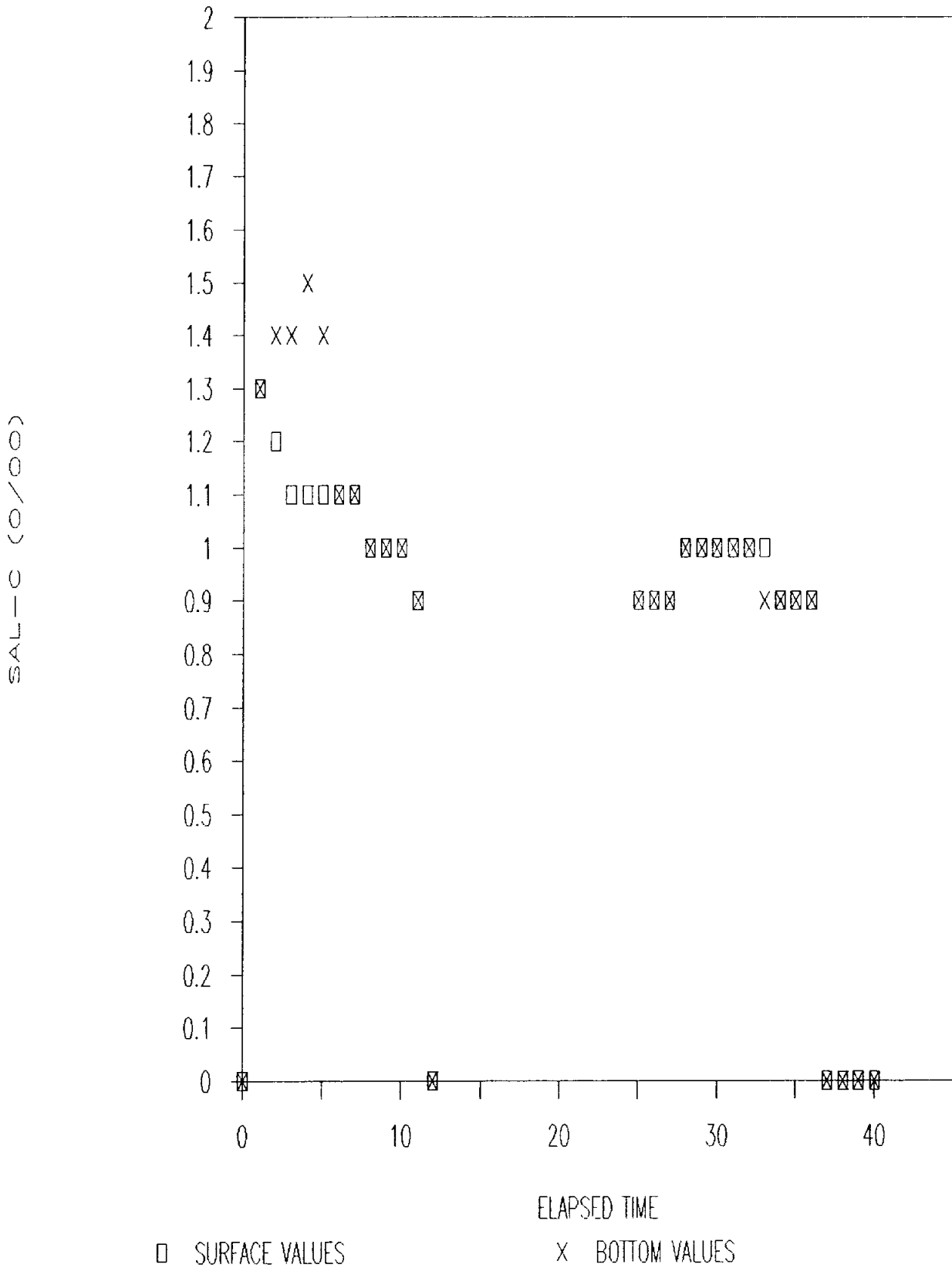
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APRIL 1987 STATION A



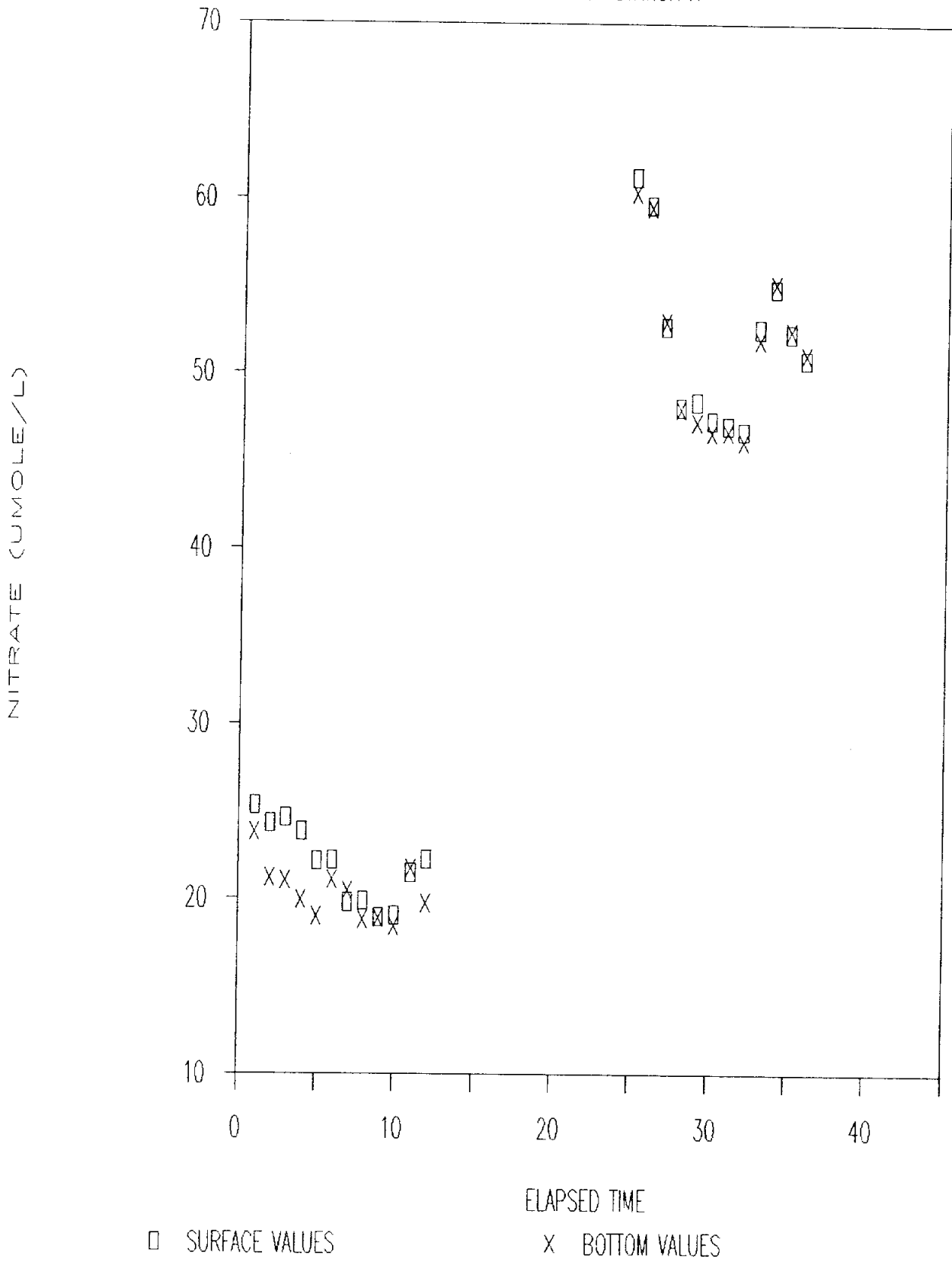
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APRIL A987 STATION A



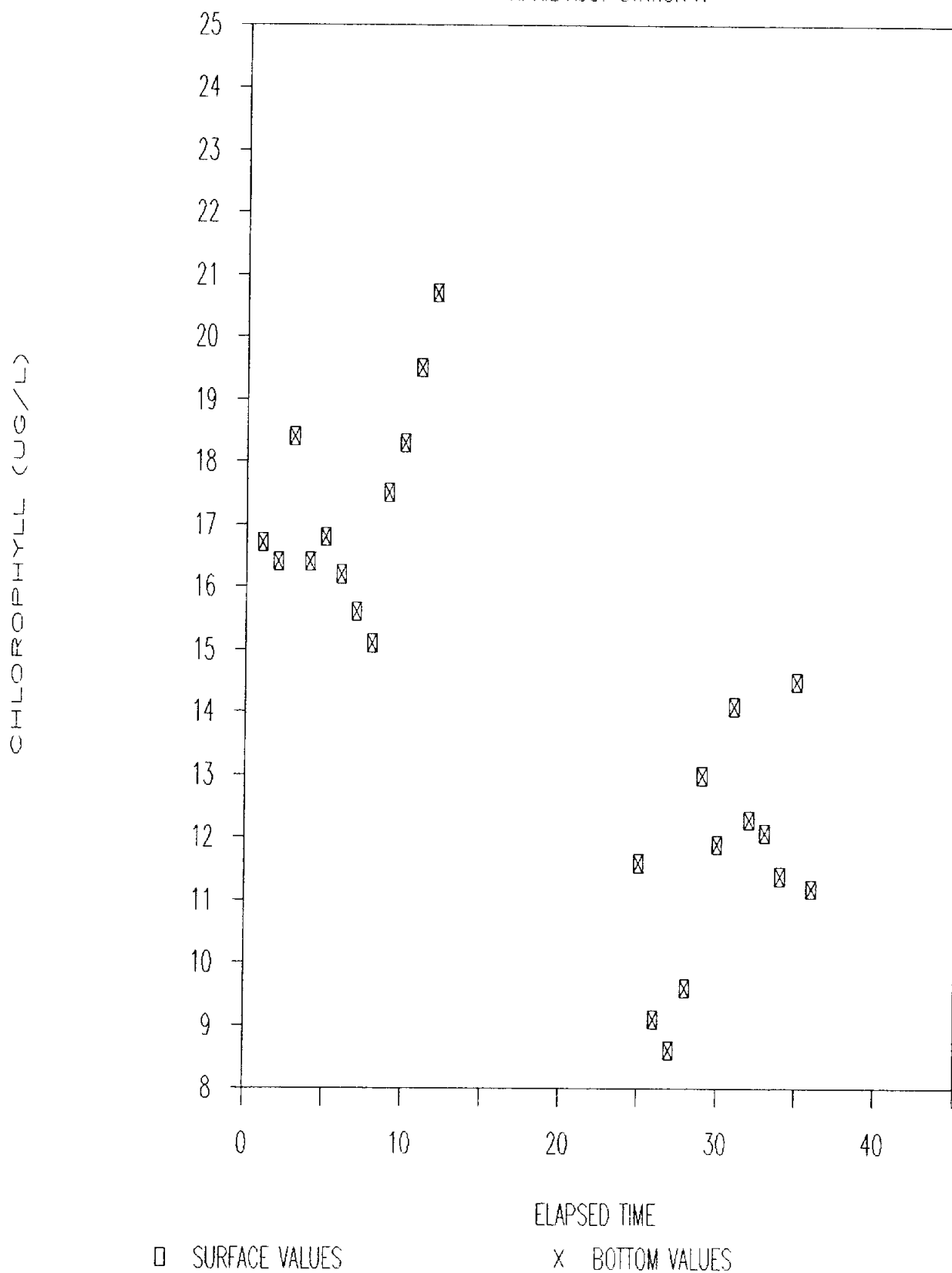
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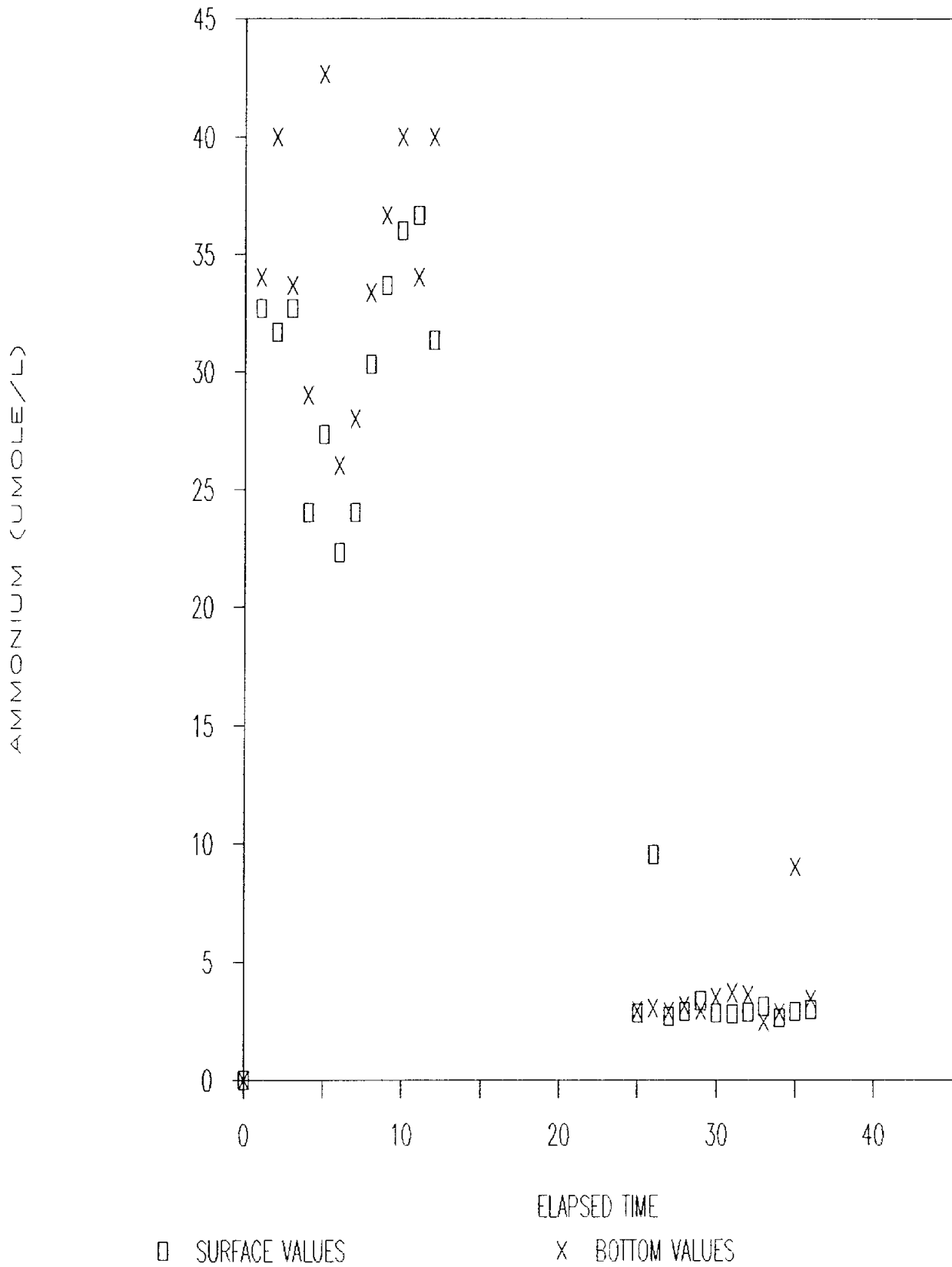
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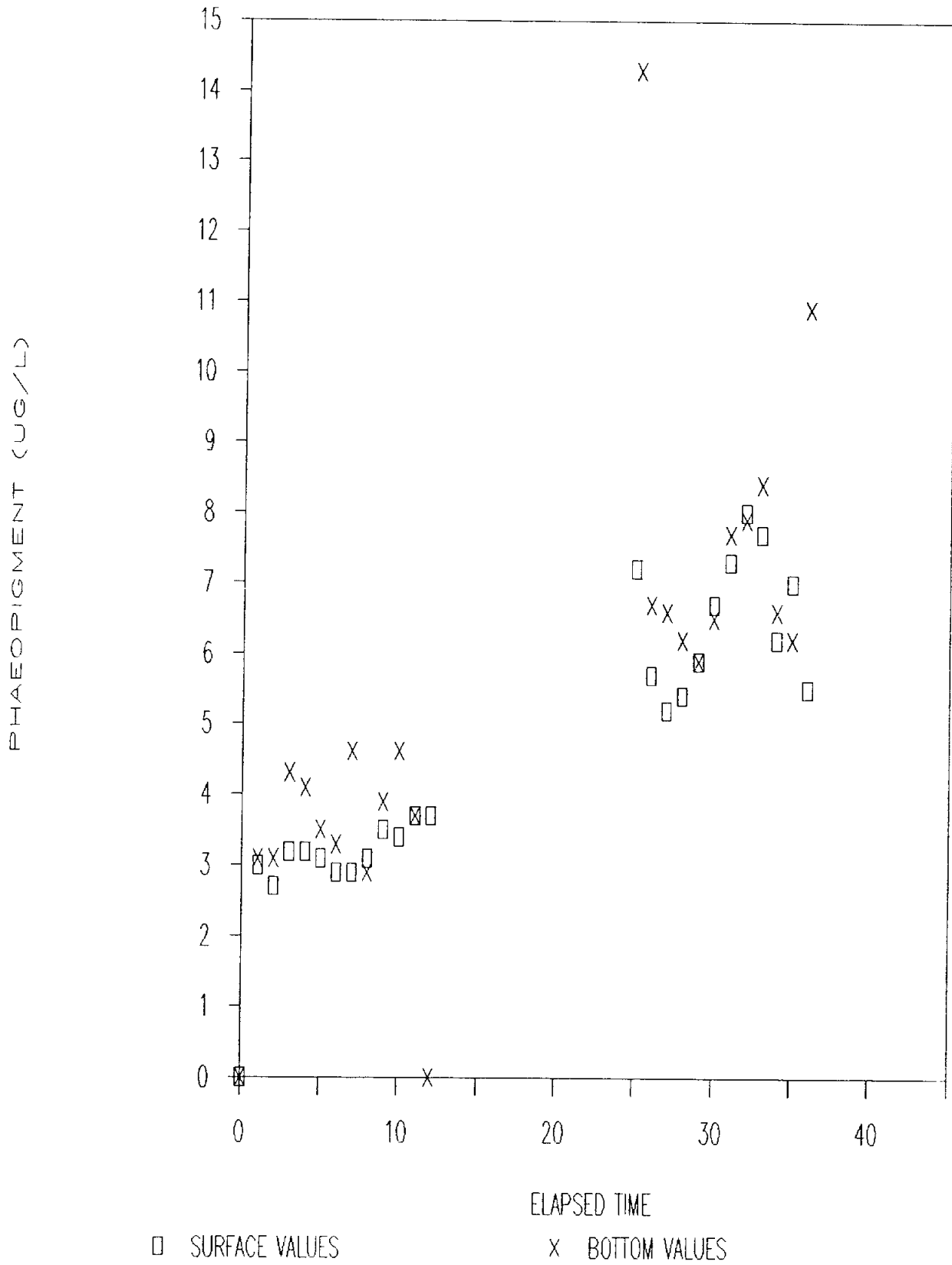
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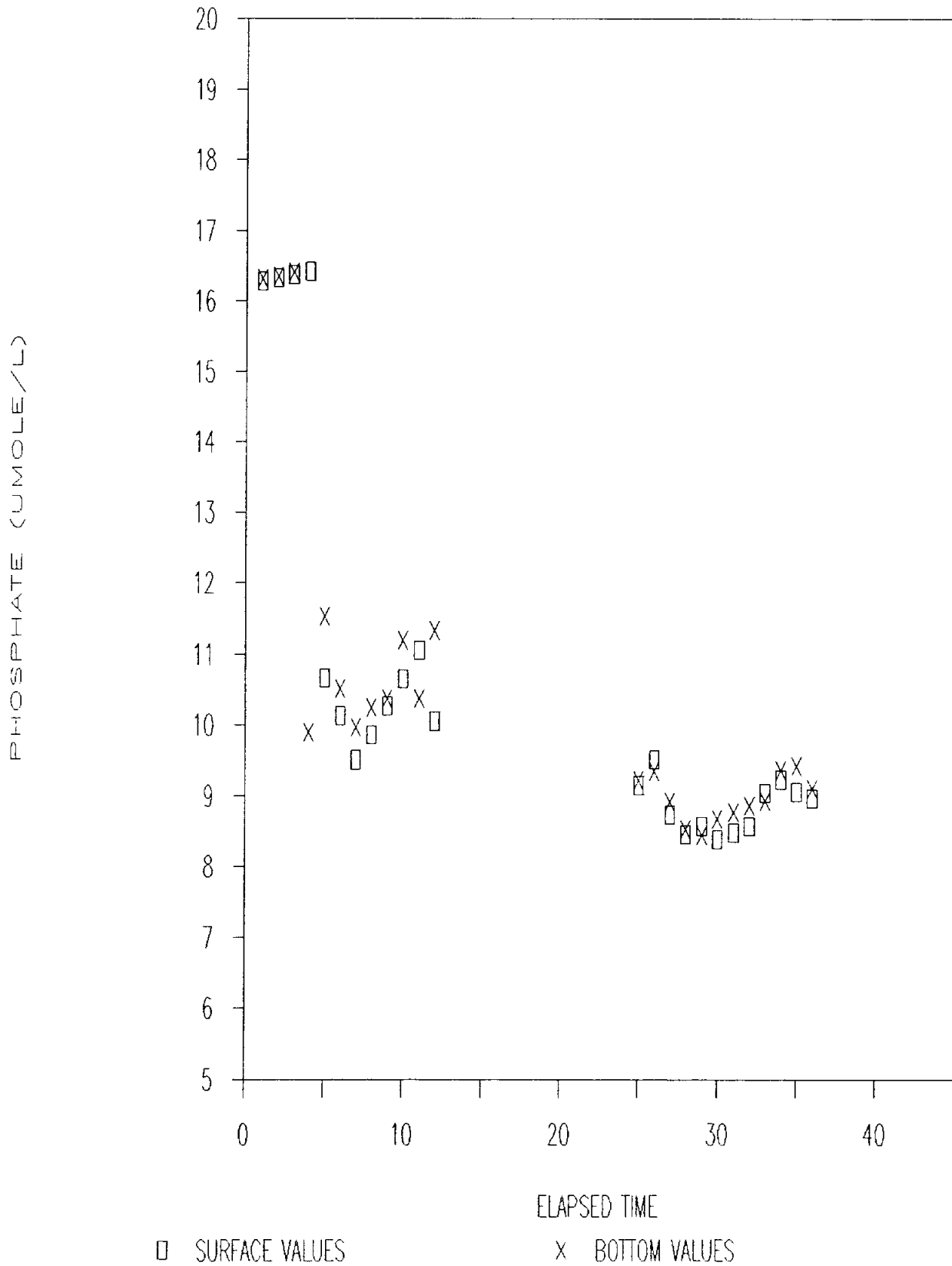
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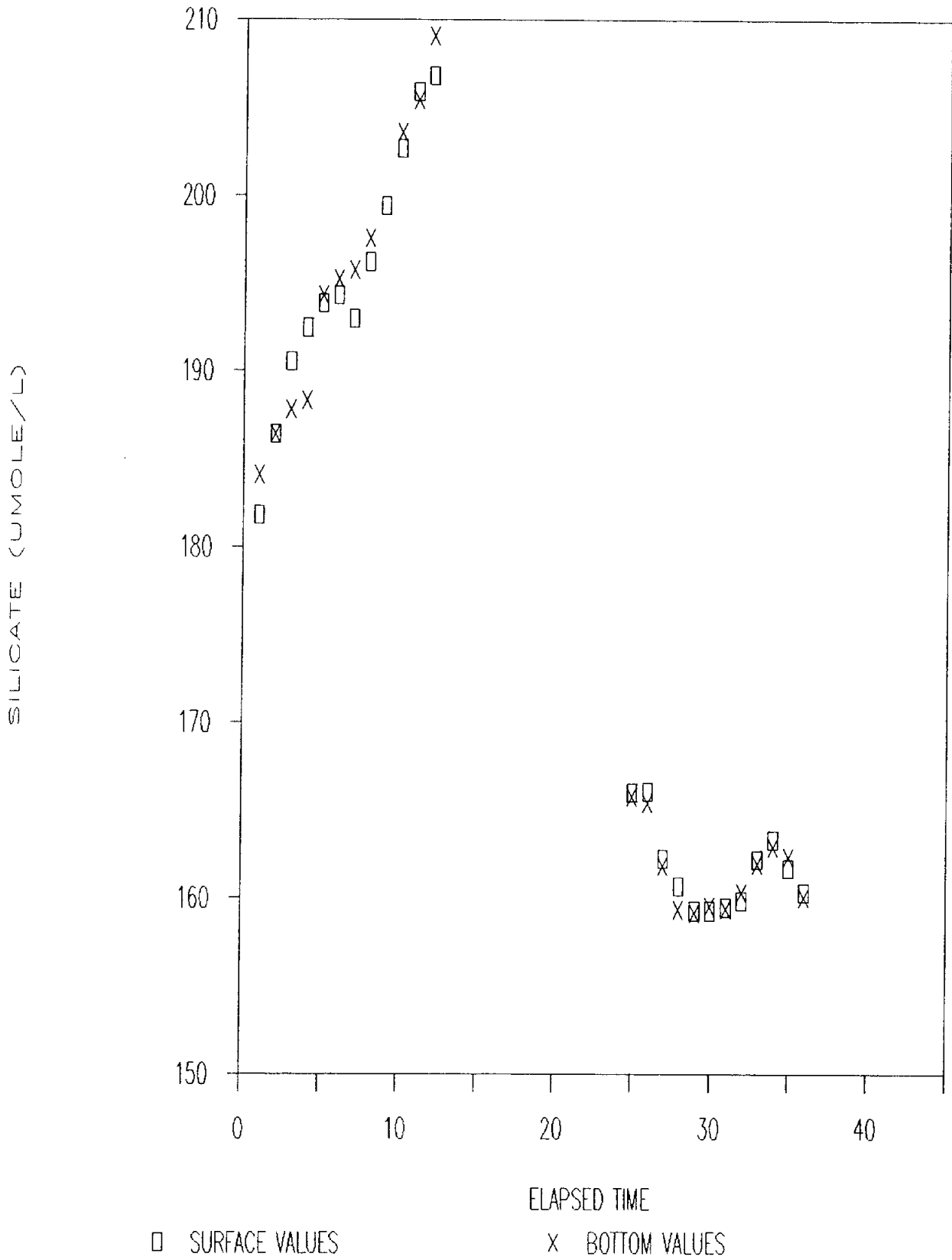
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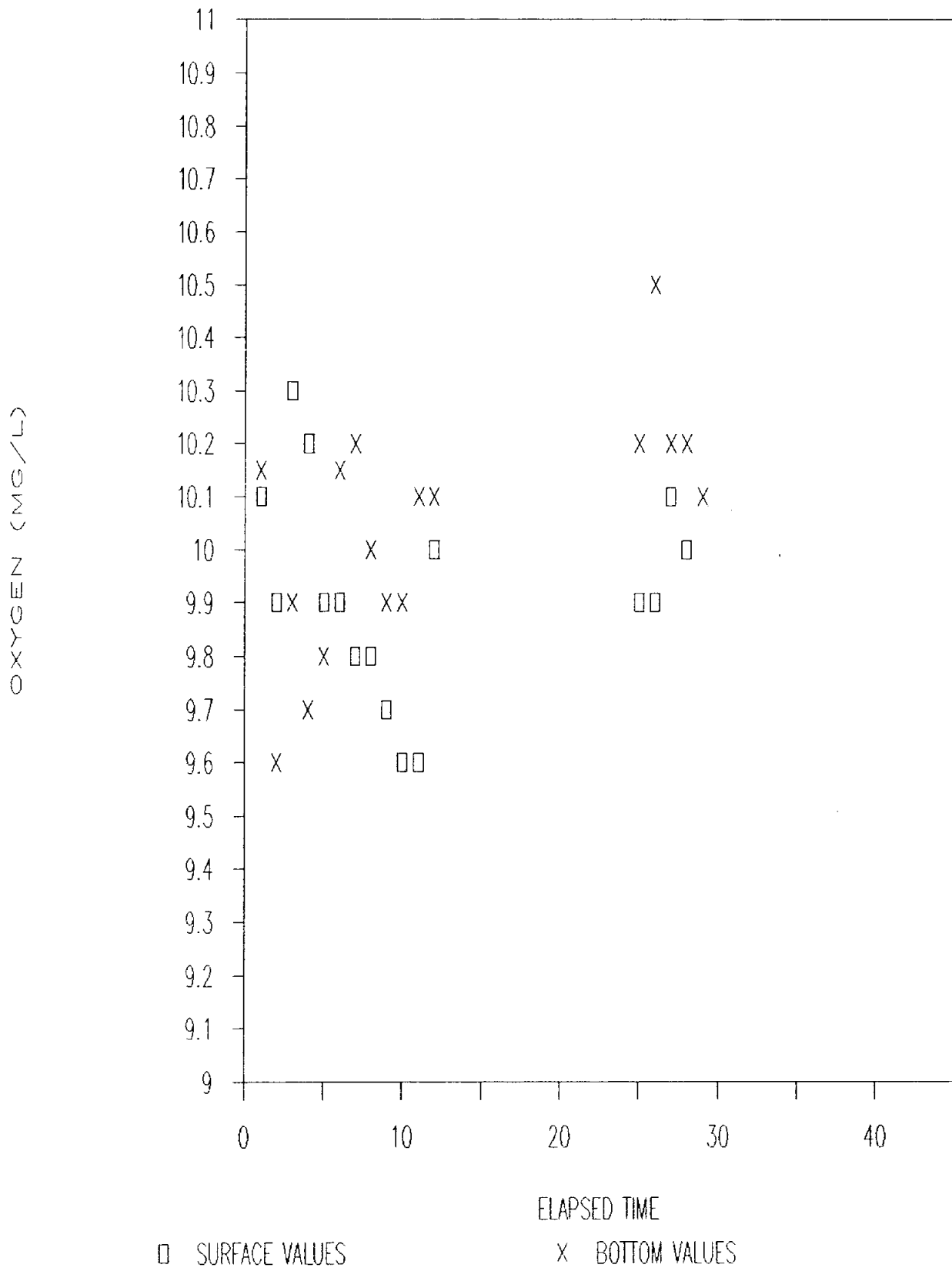
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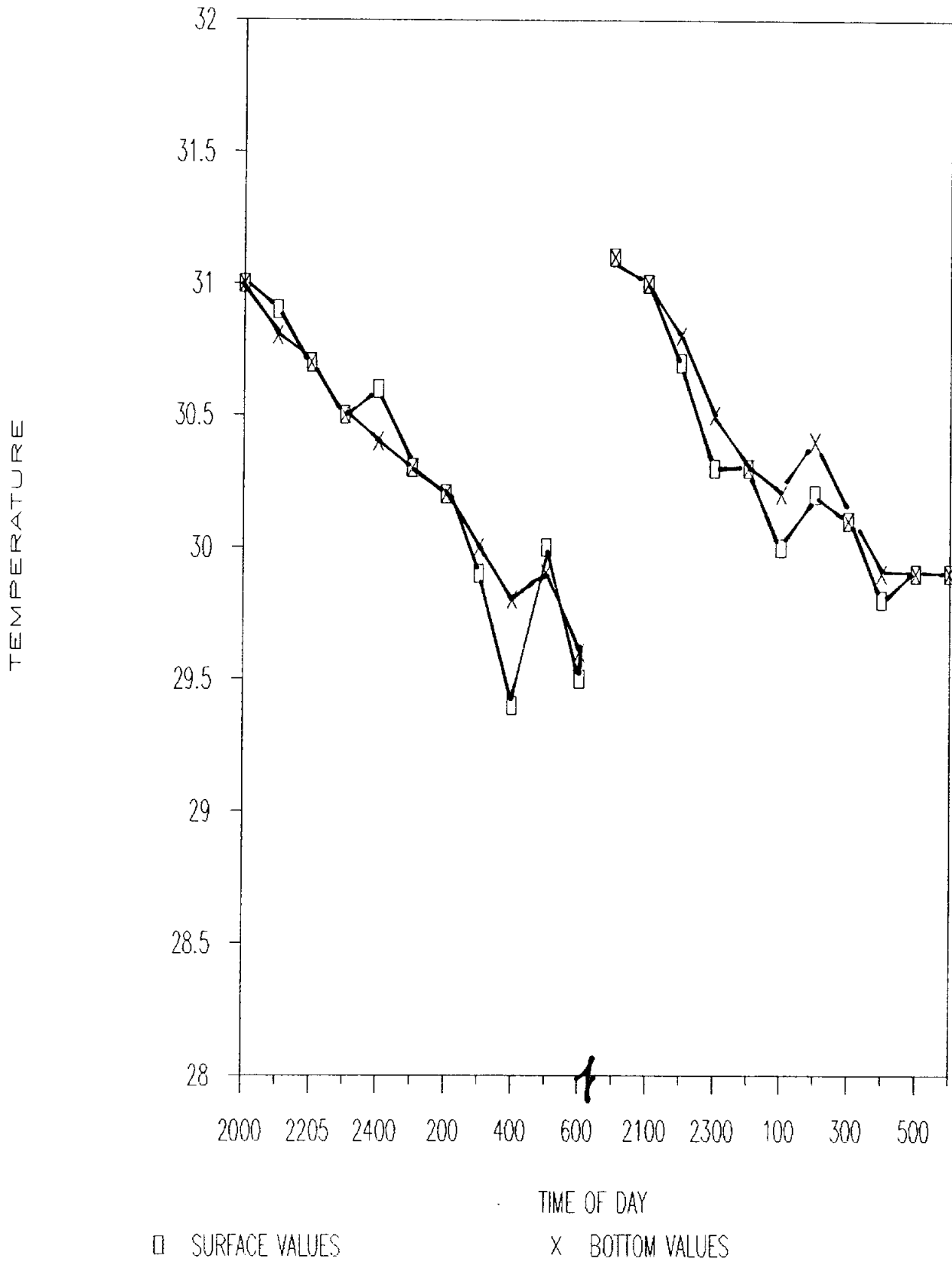
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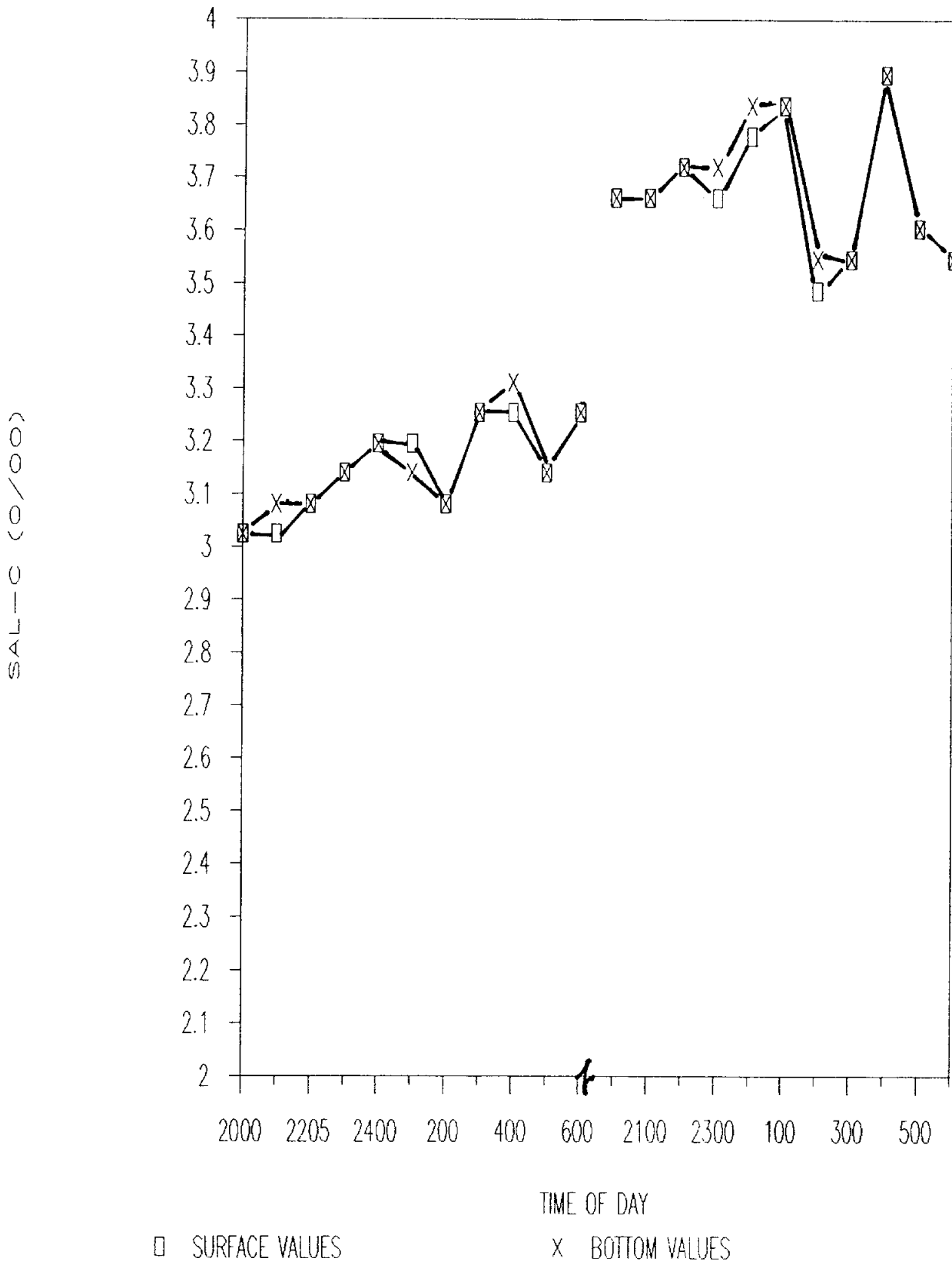
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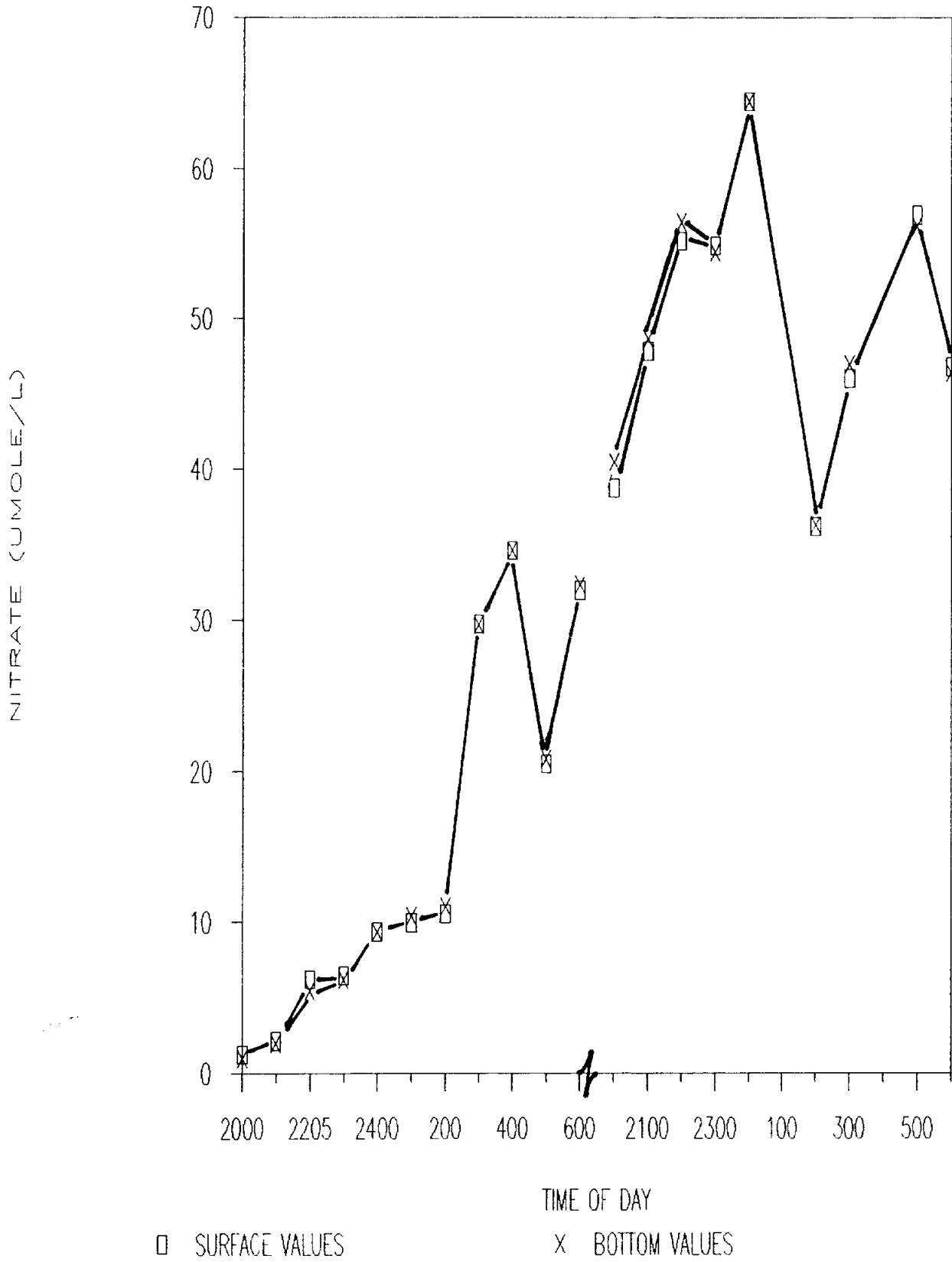
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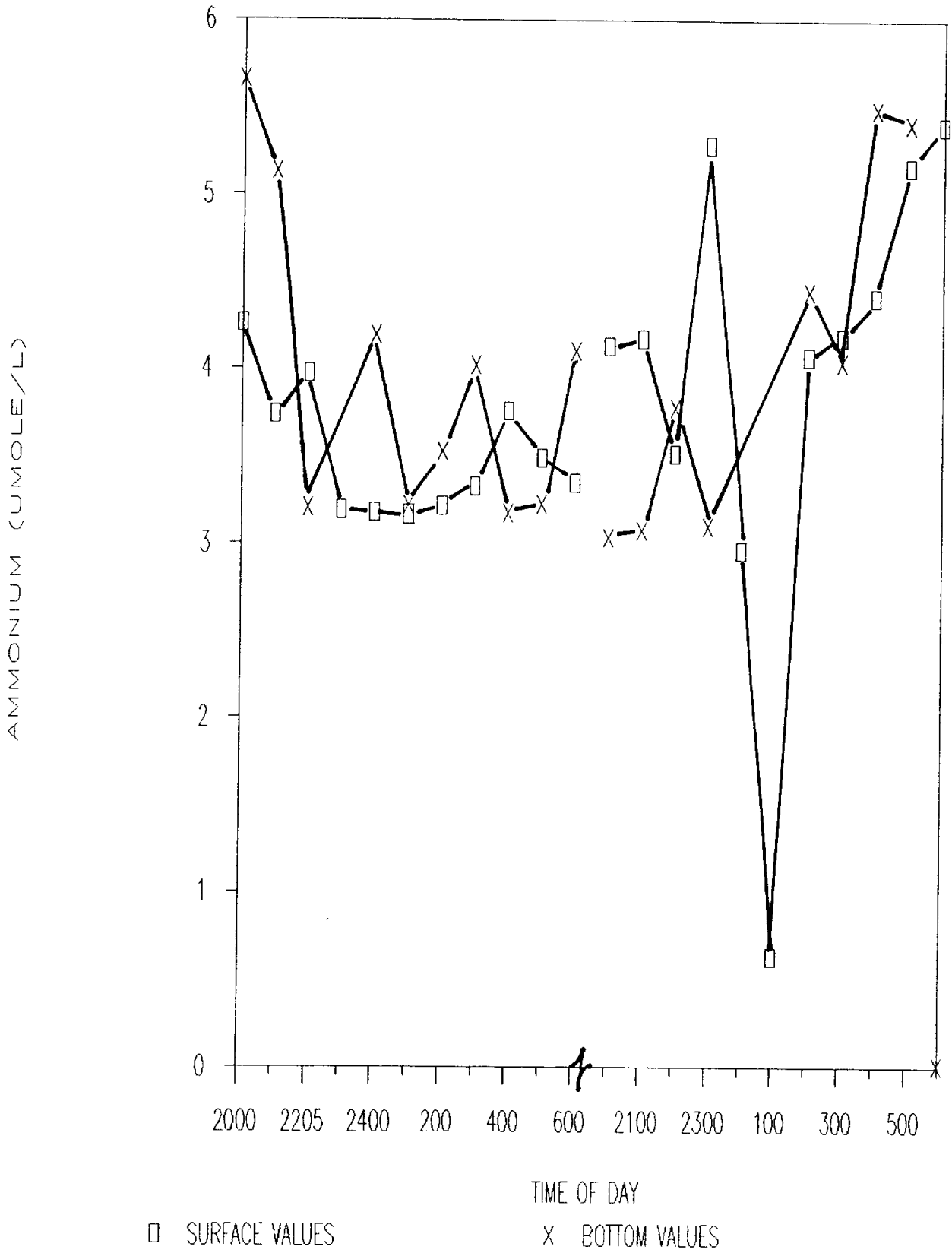
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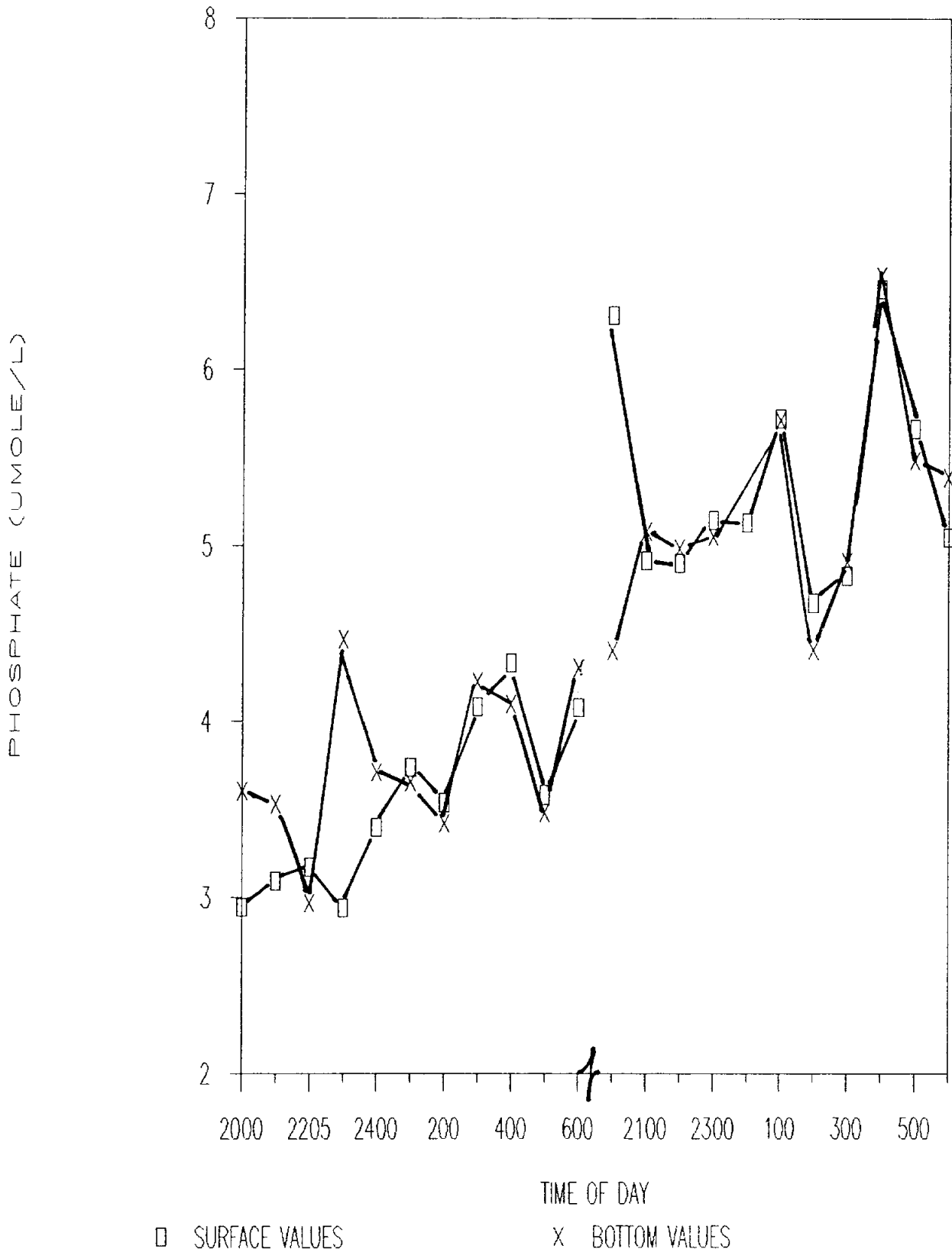
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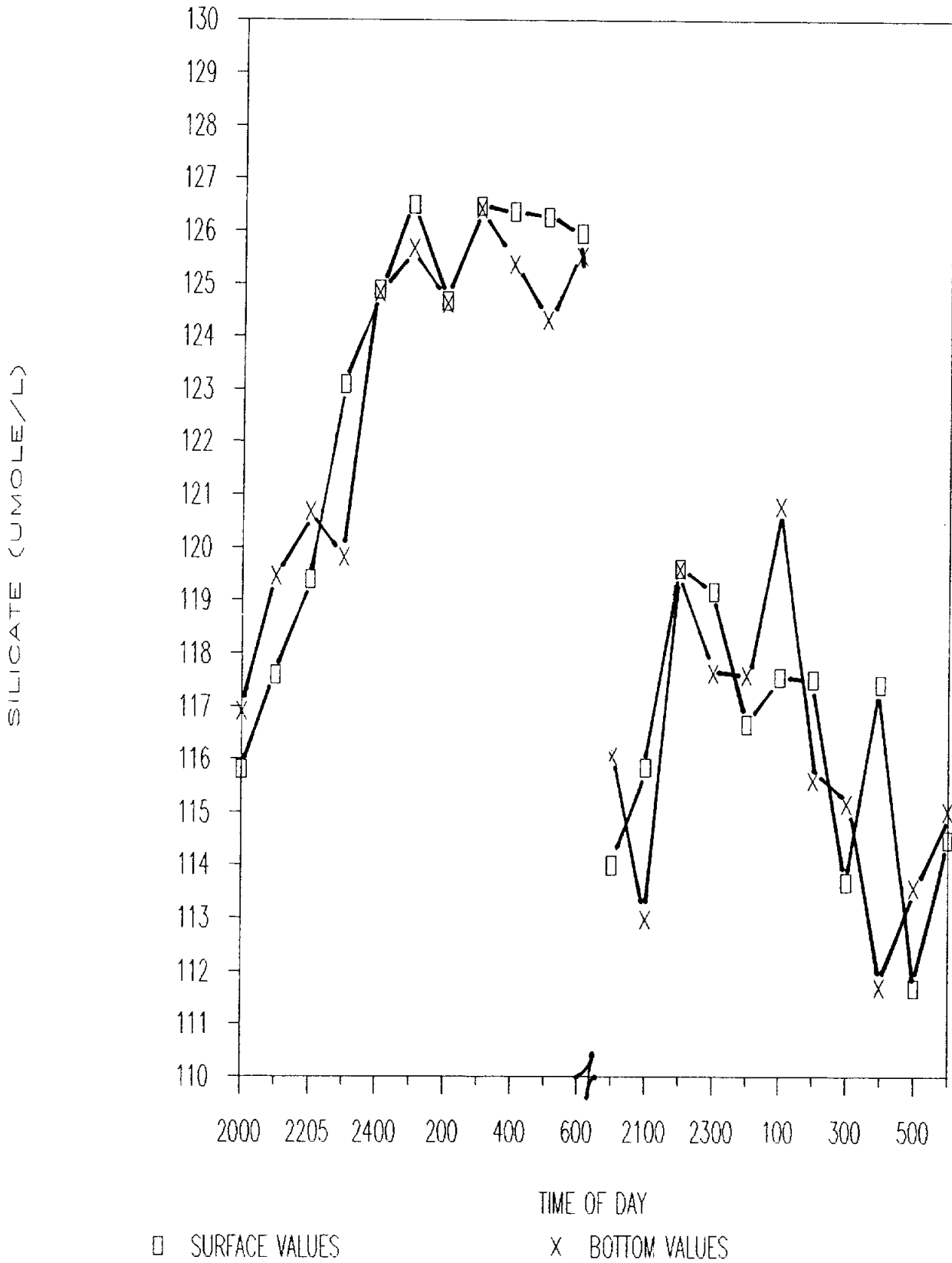
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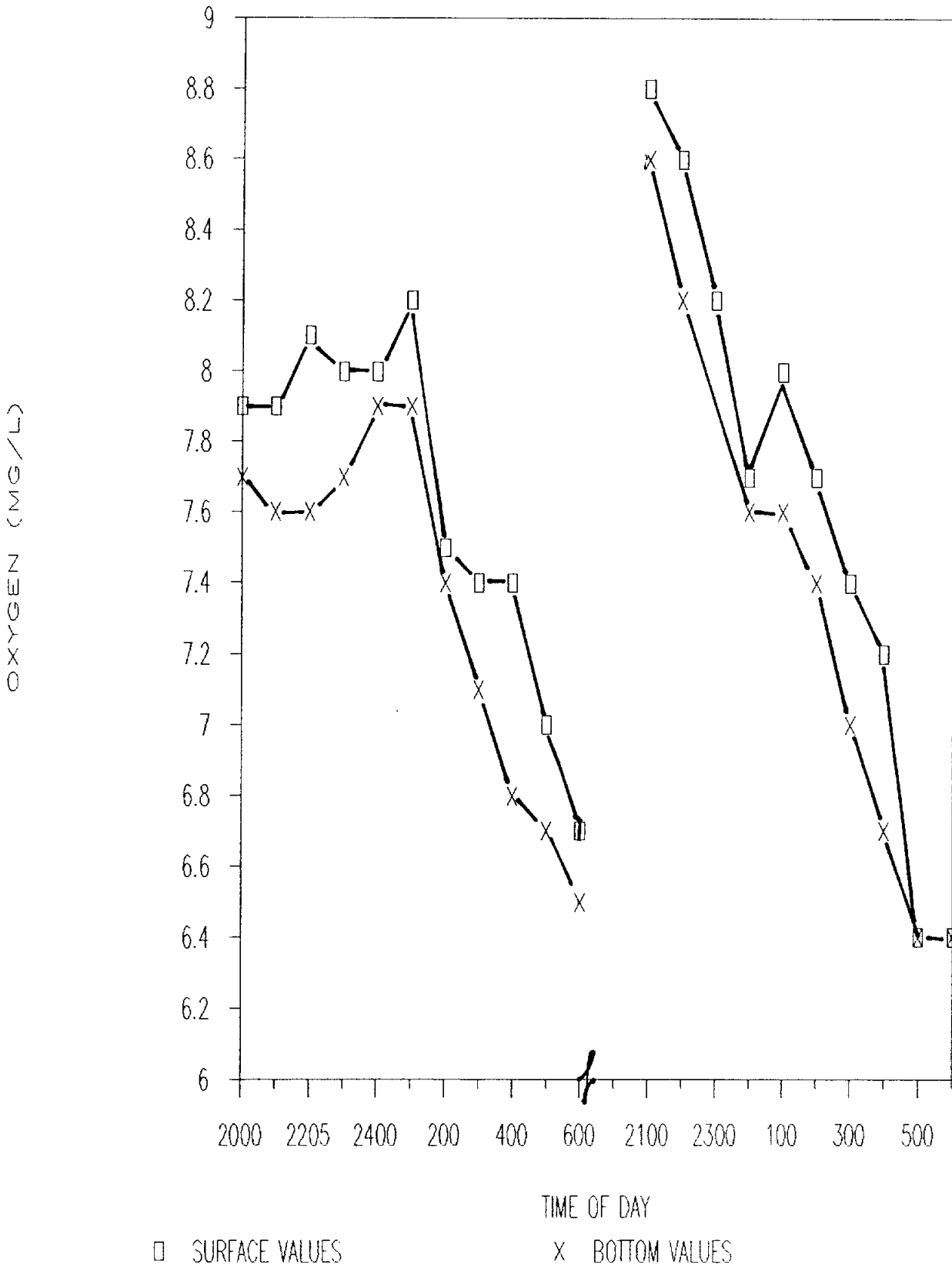
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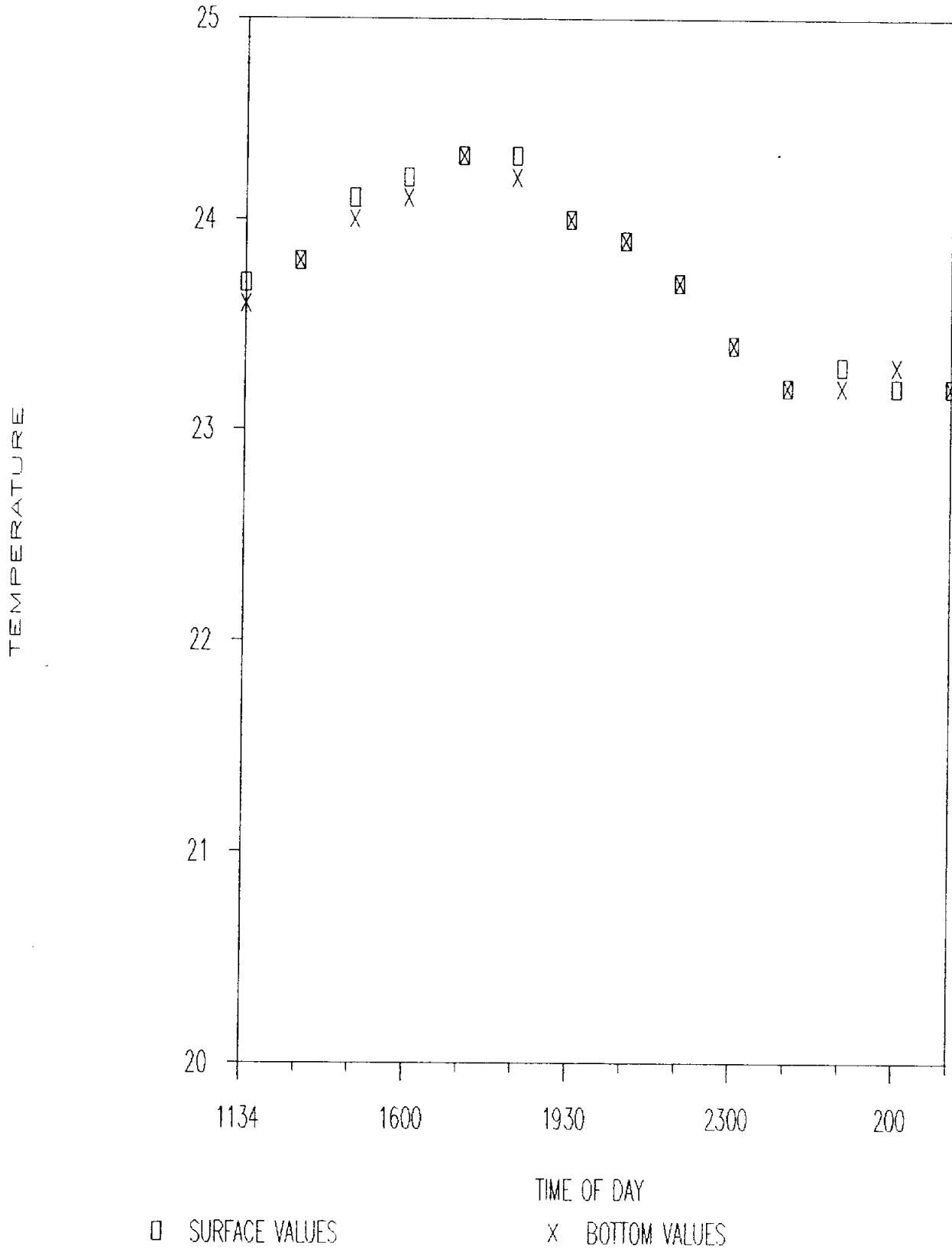
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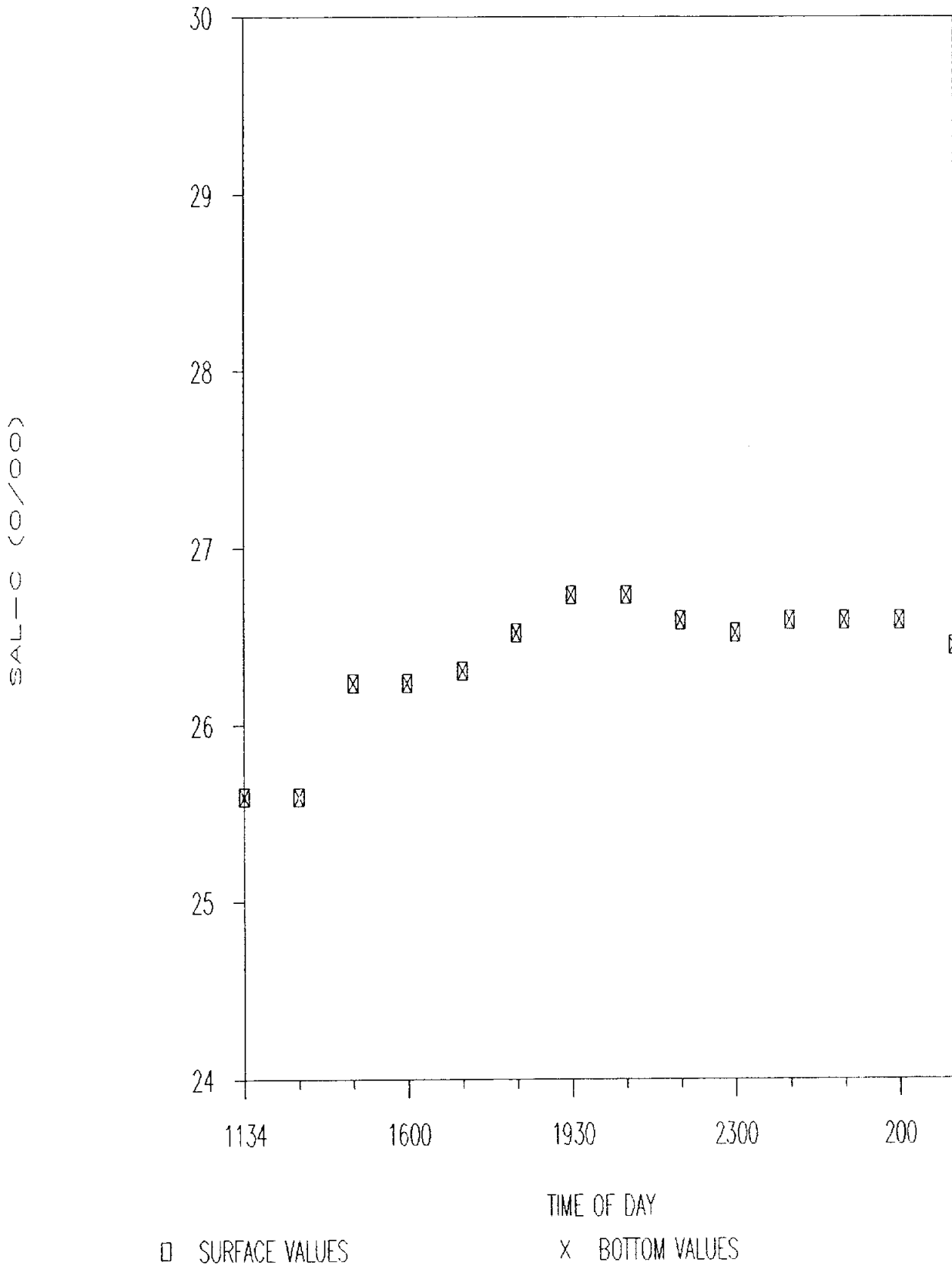
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OCT 1987 STATION A



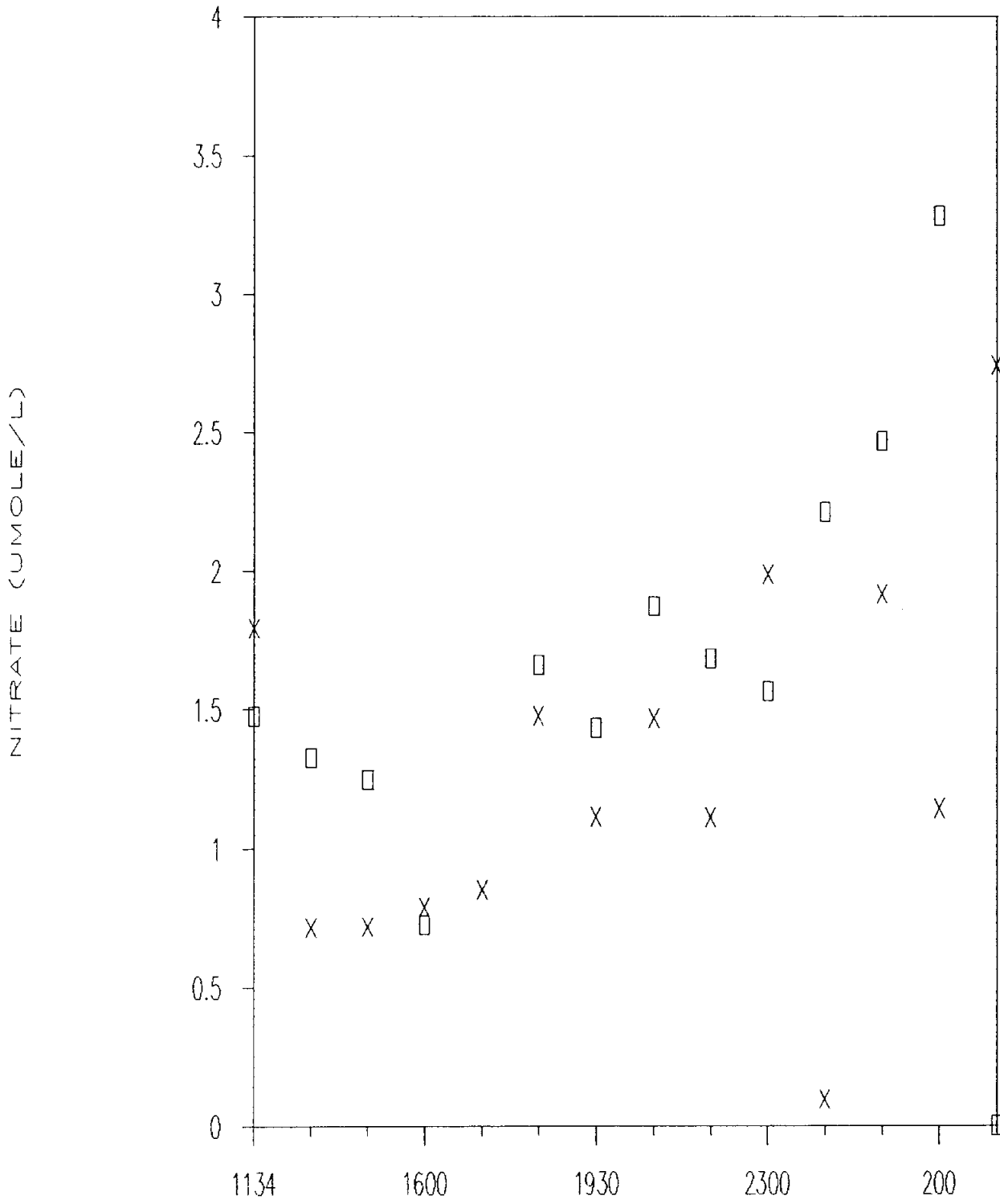
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OCT 1987 STATION A



CORPUS CHRISTI/NUECES BAYS

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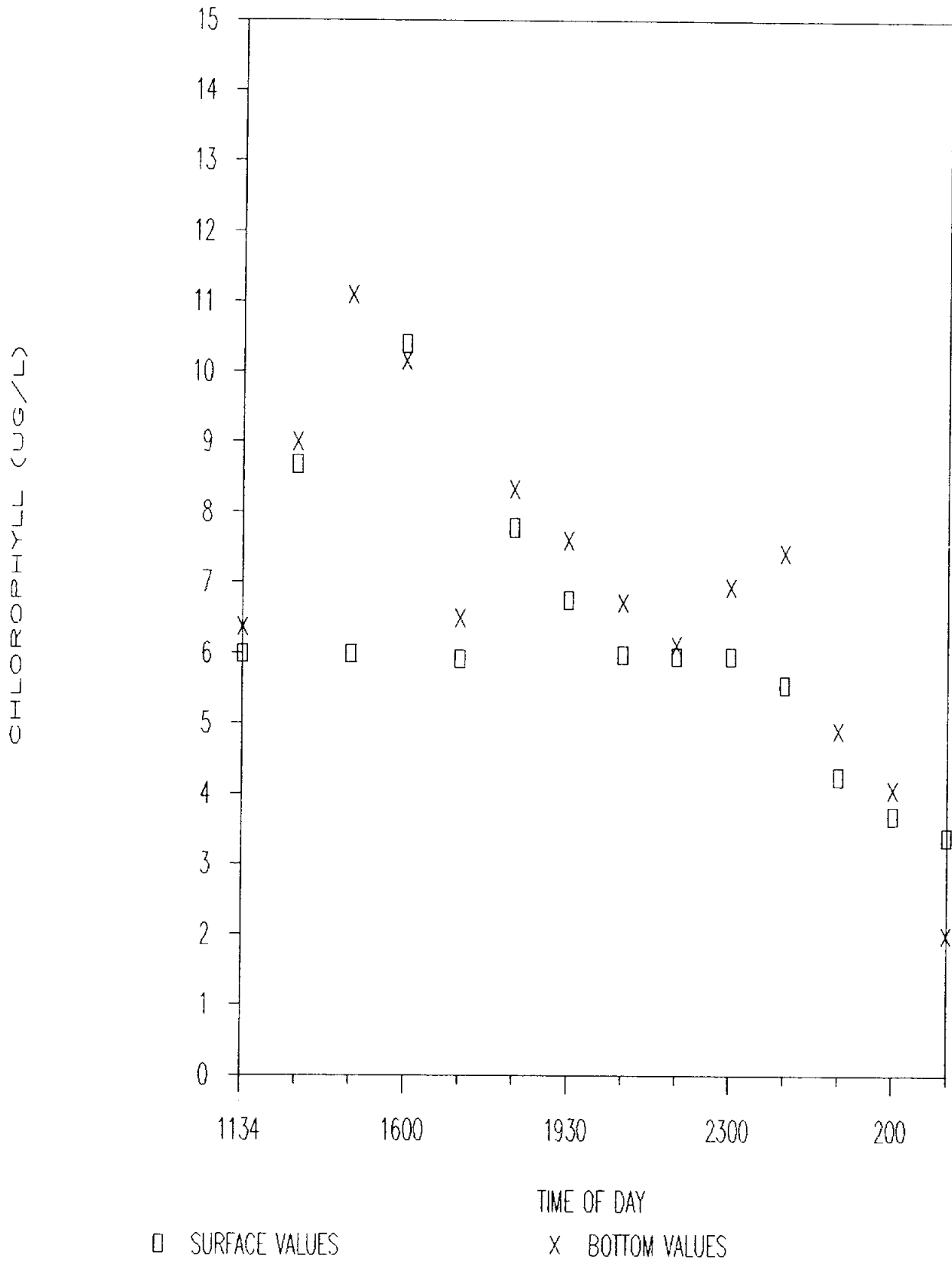


□ SURFACE VALUES

x BOTTOM VALUES

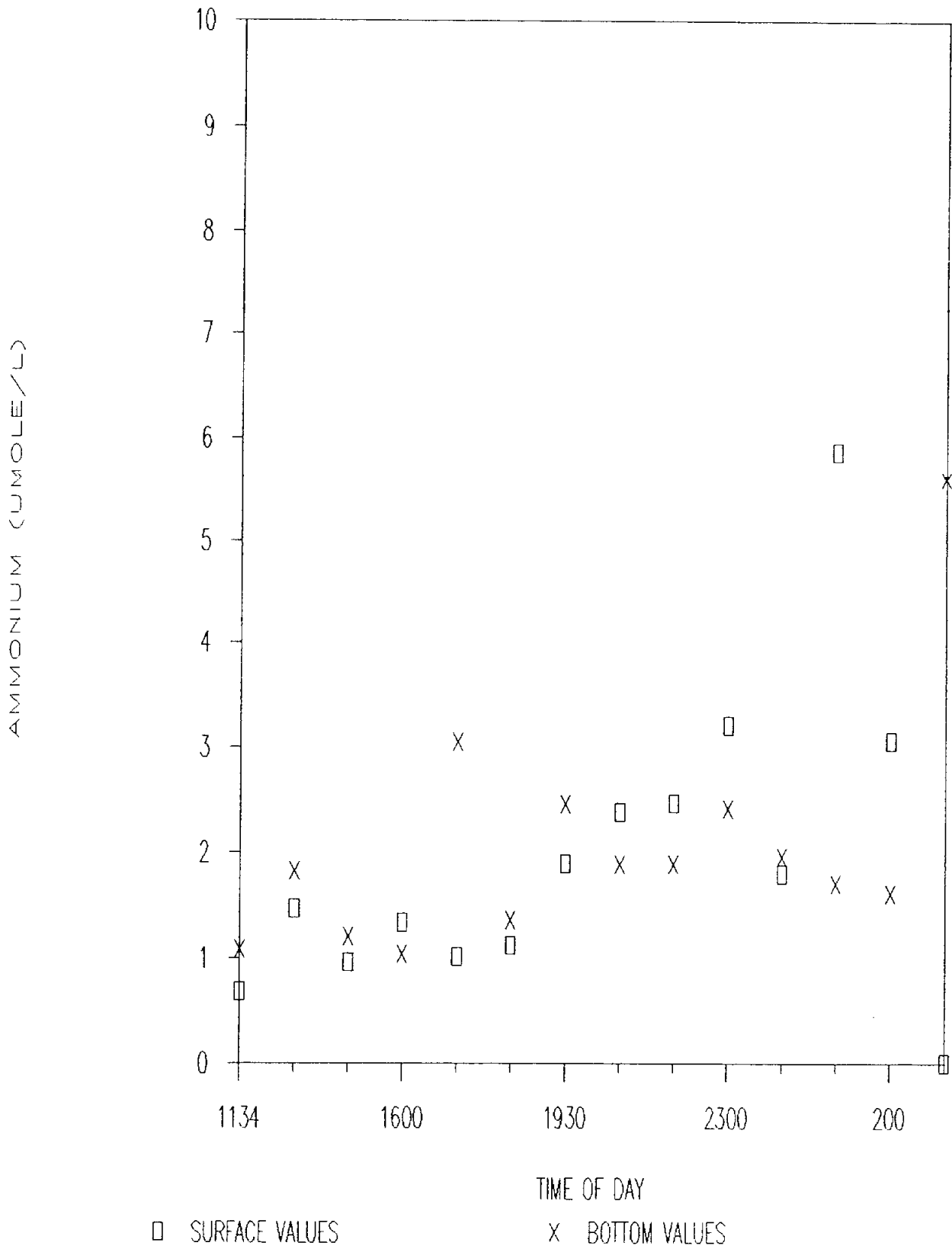
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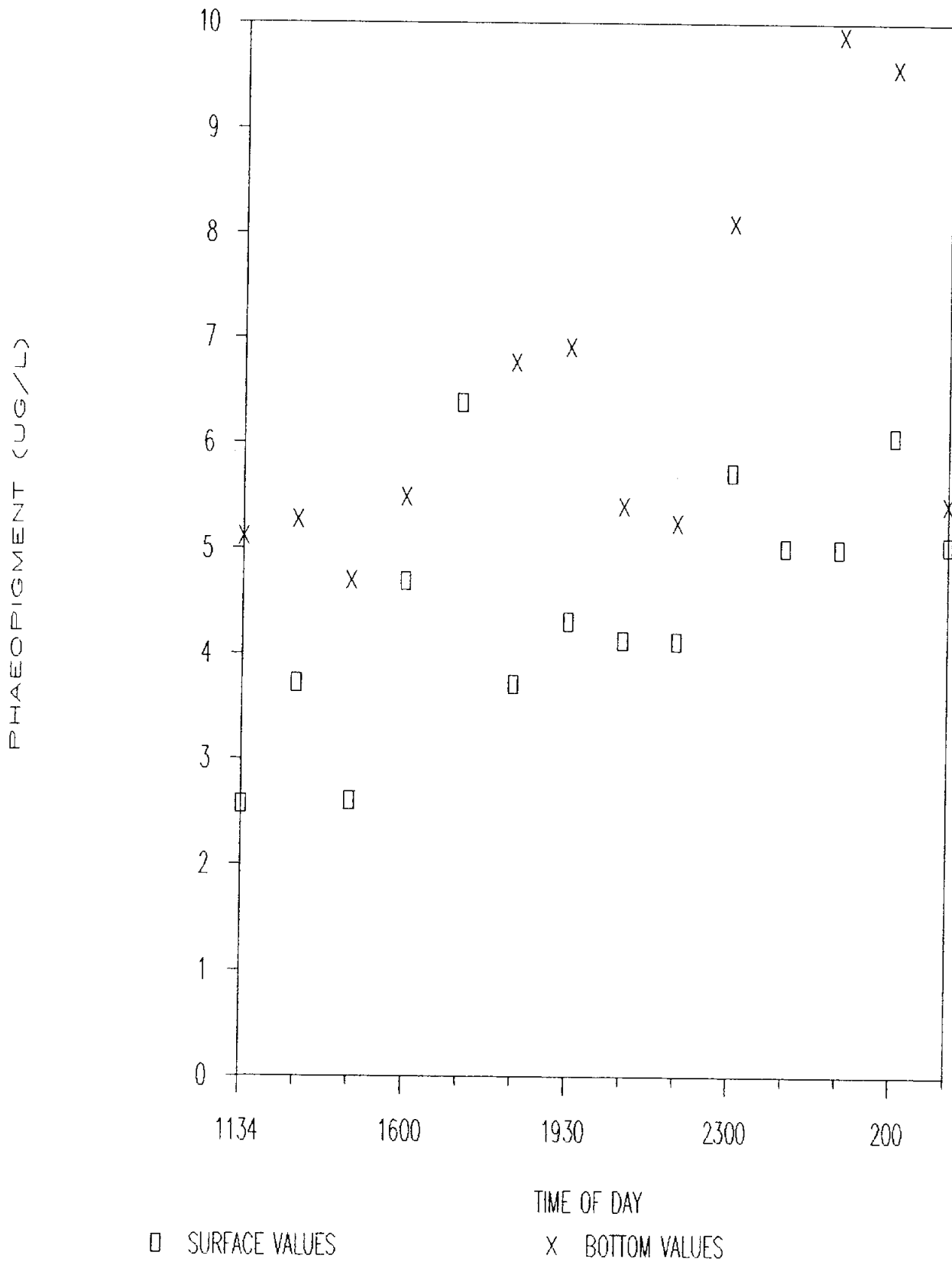
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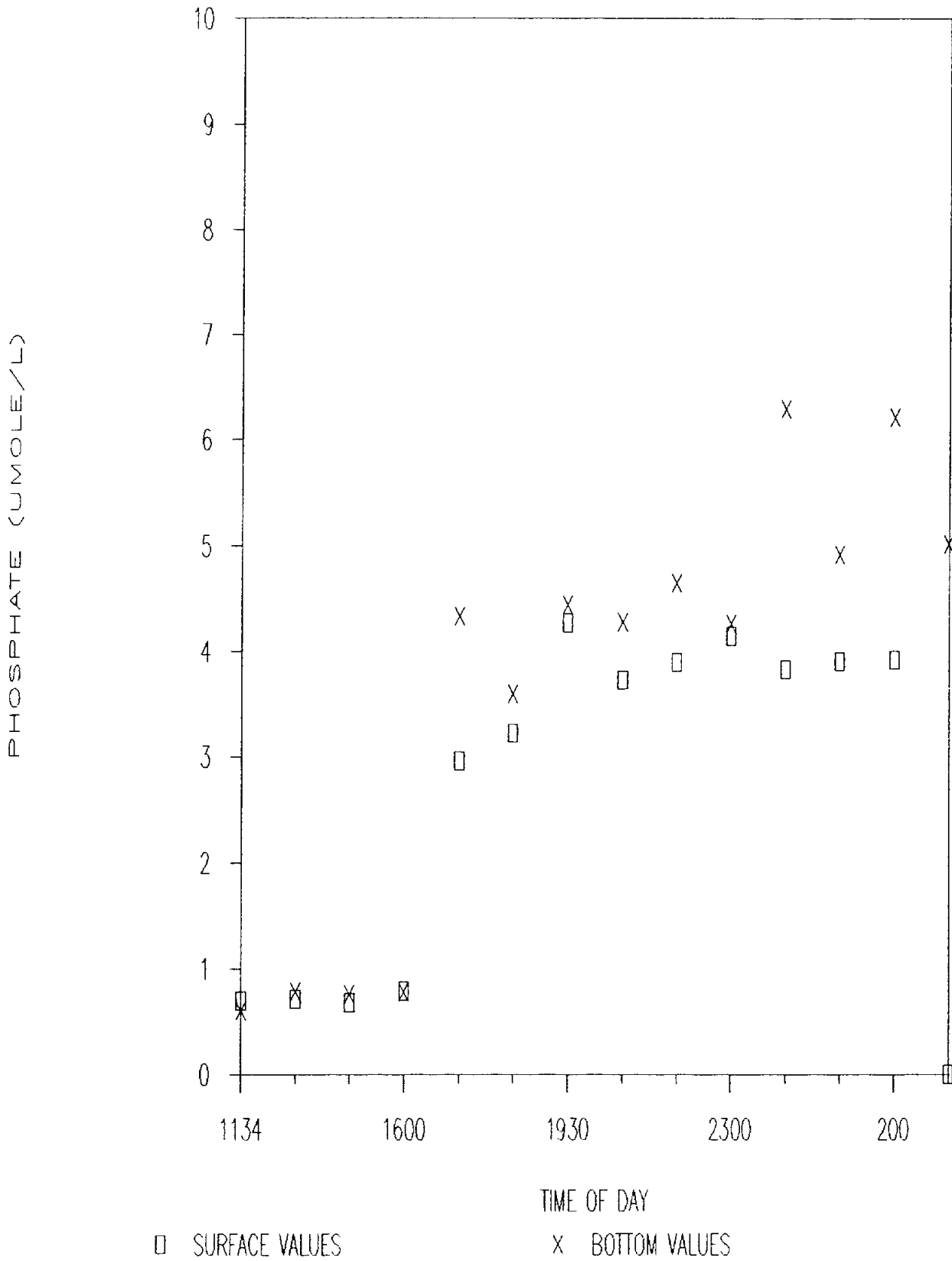
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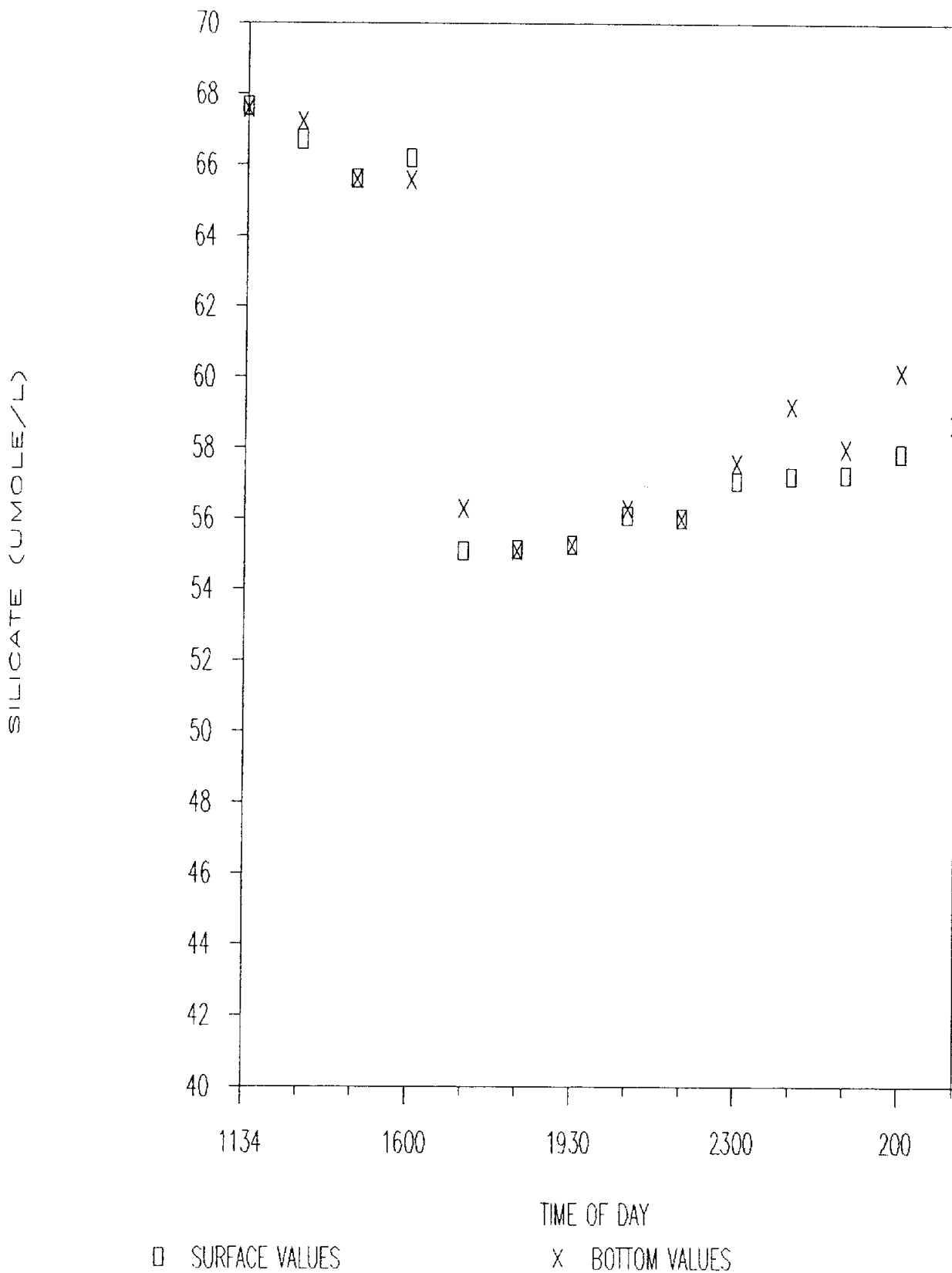
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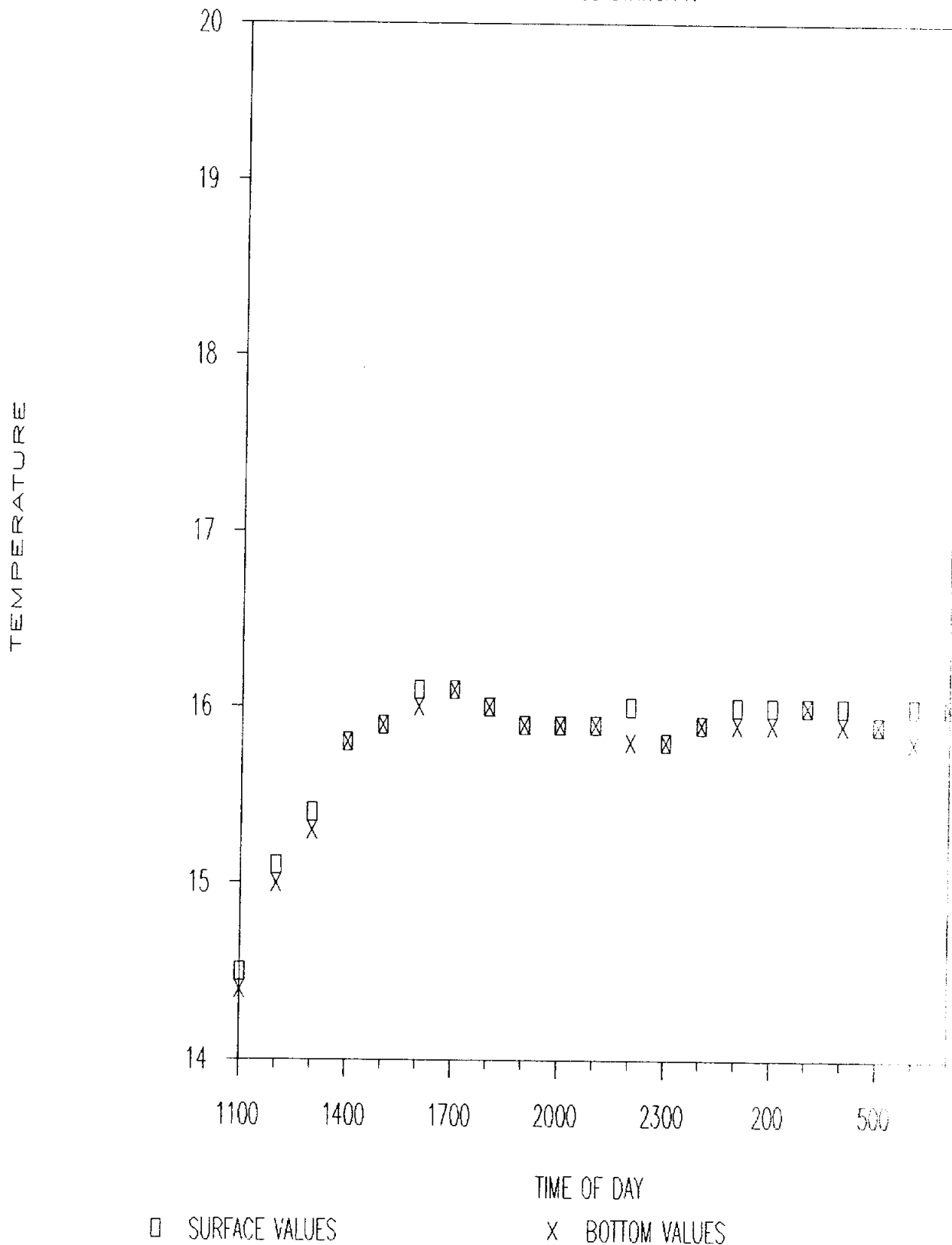
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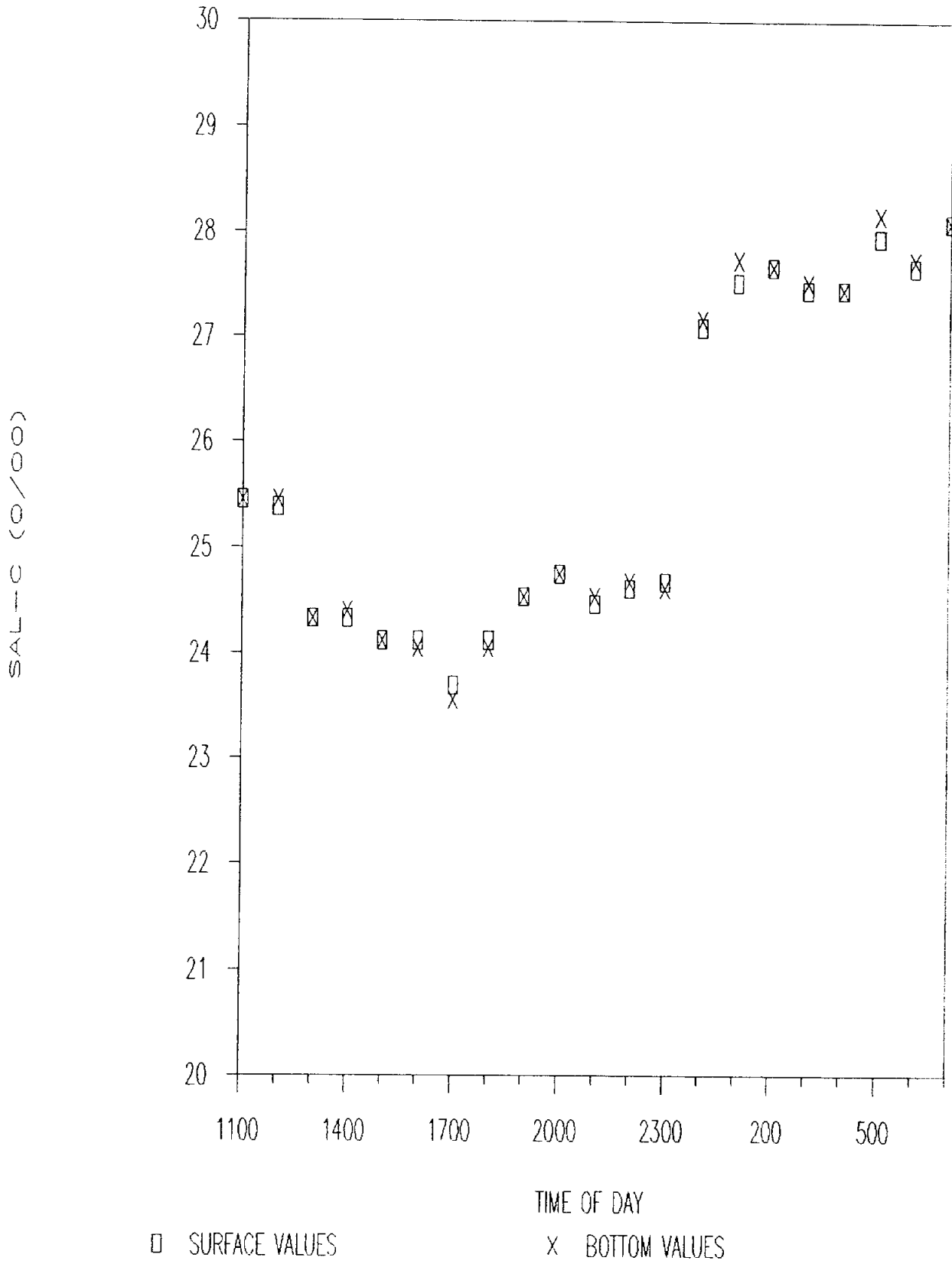
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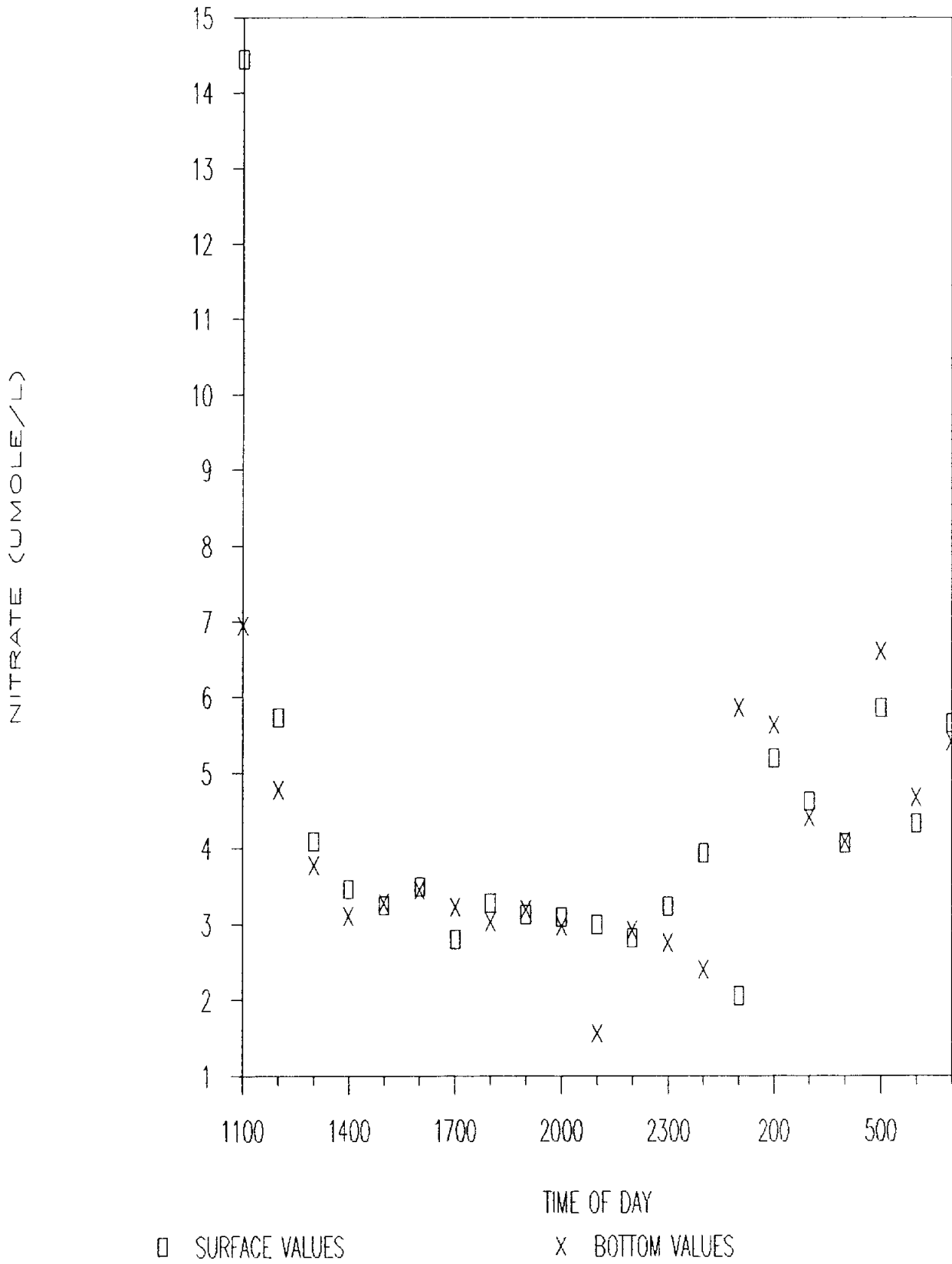
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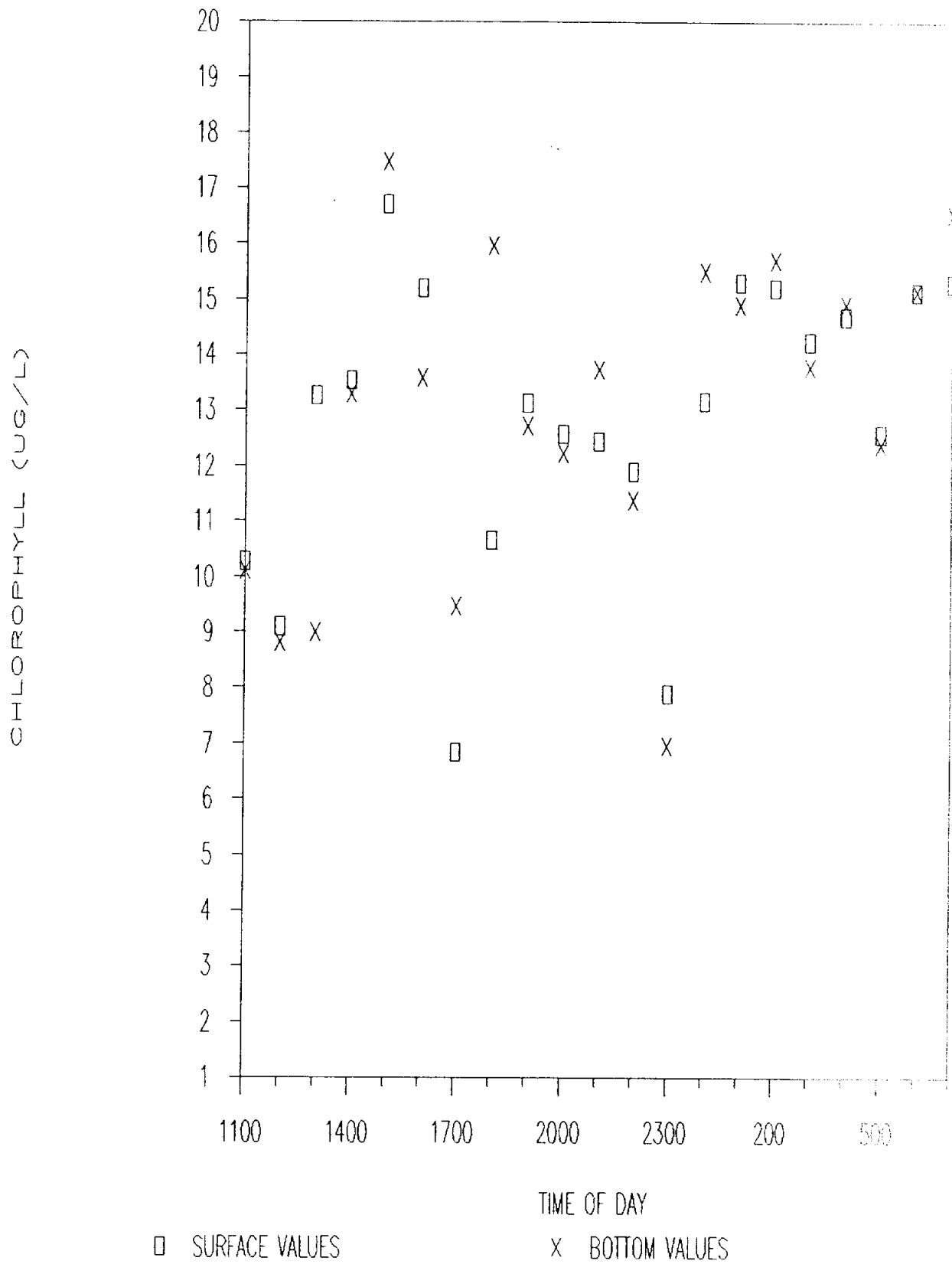
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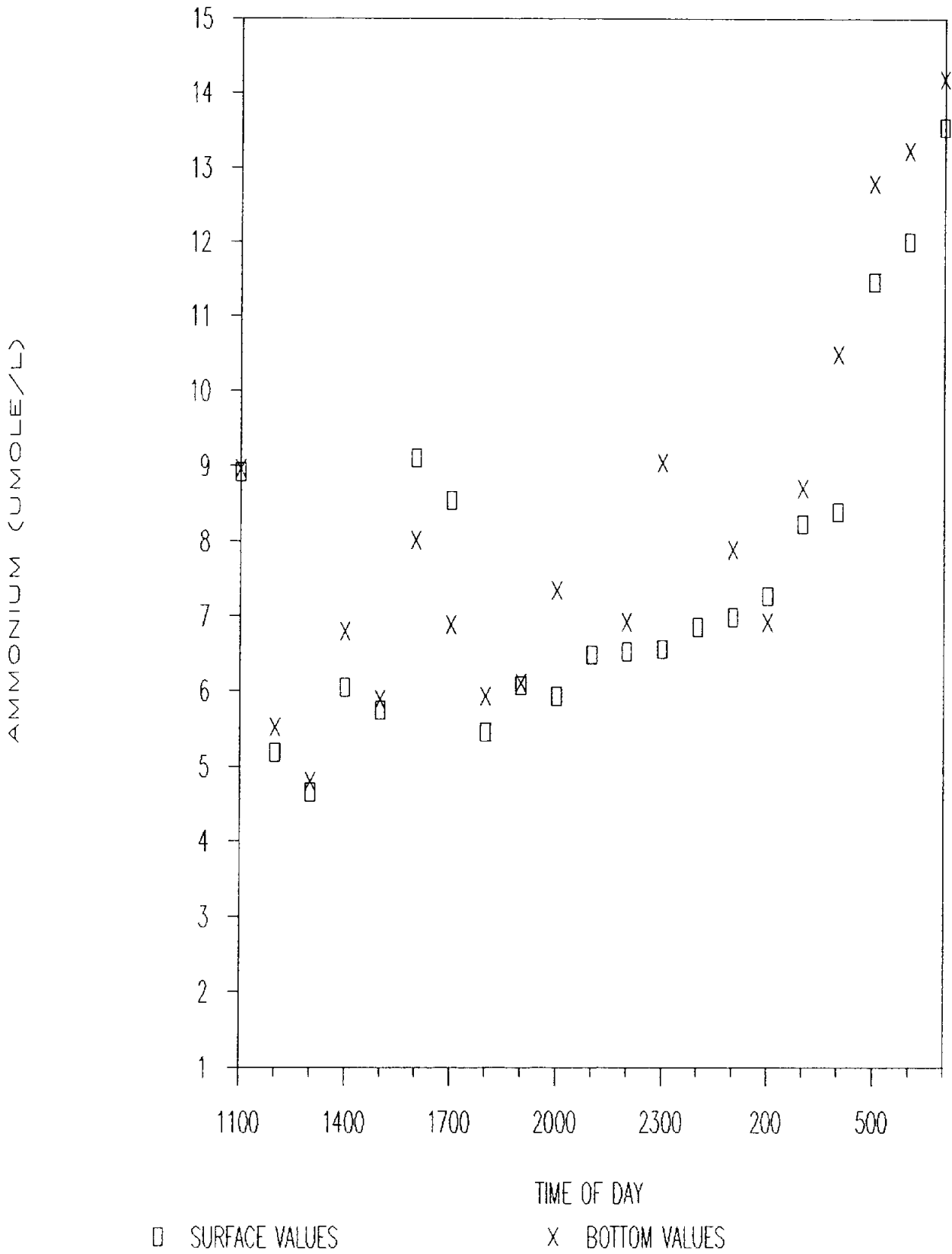
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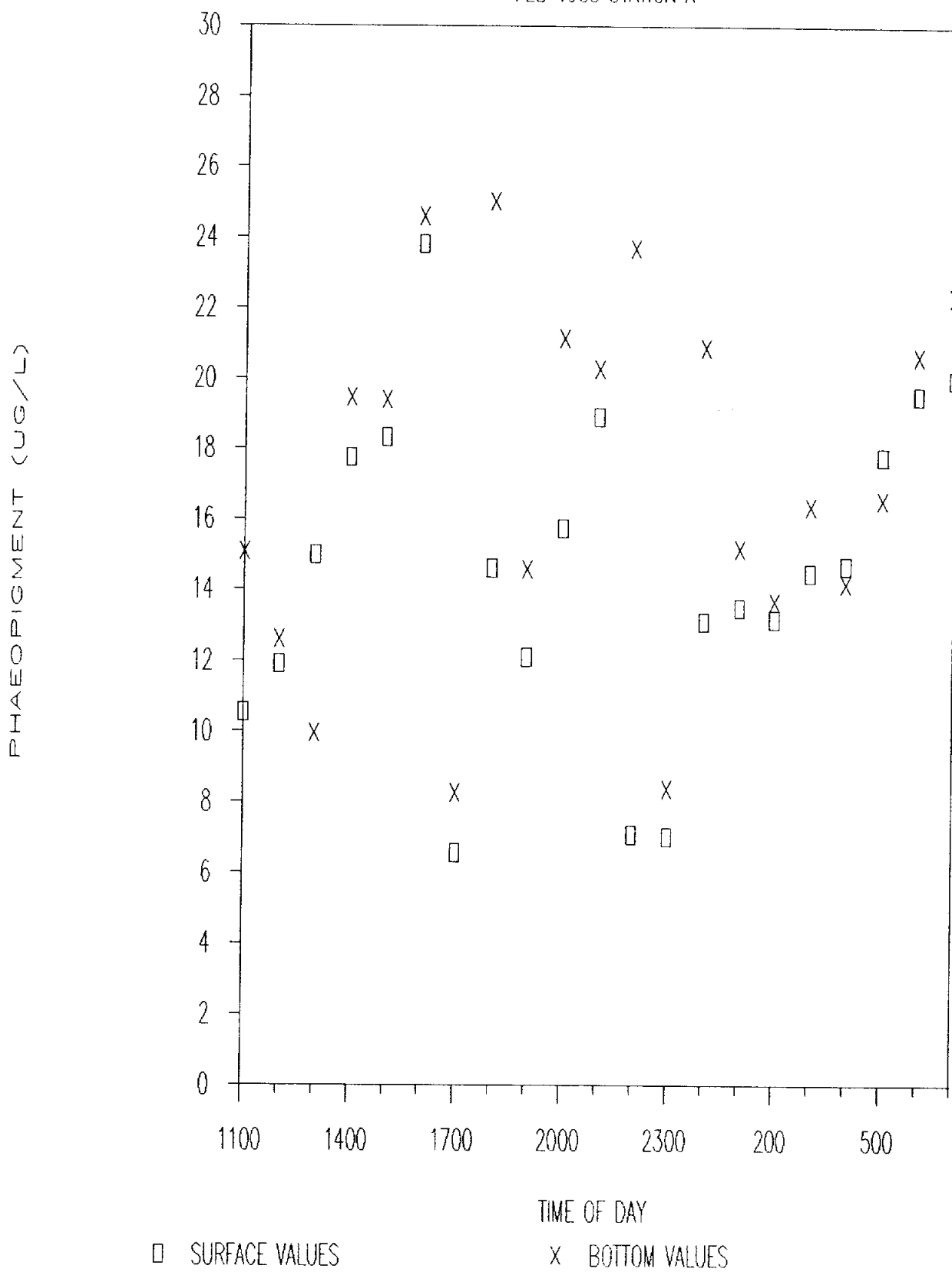
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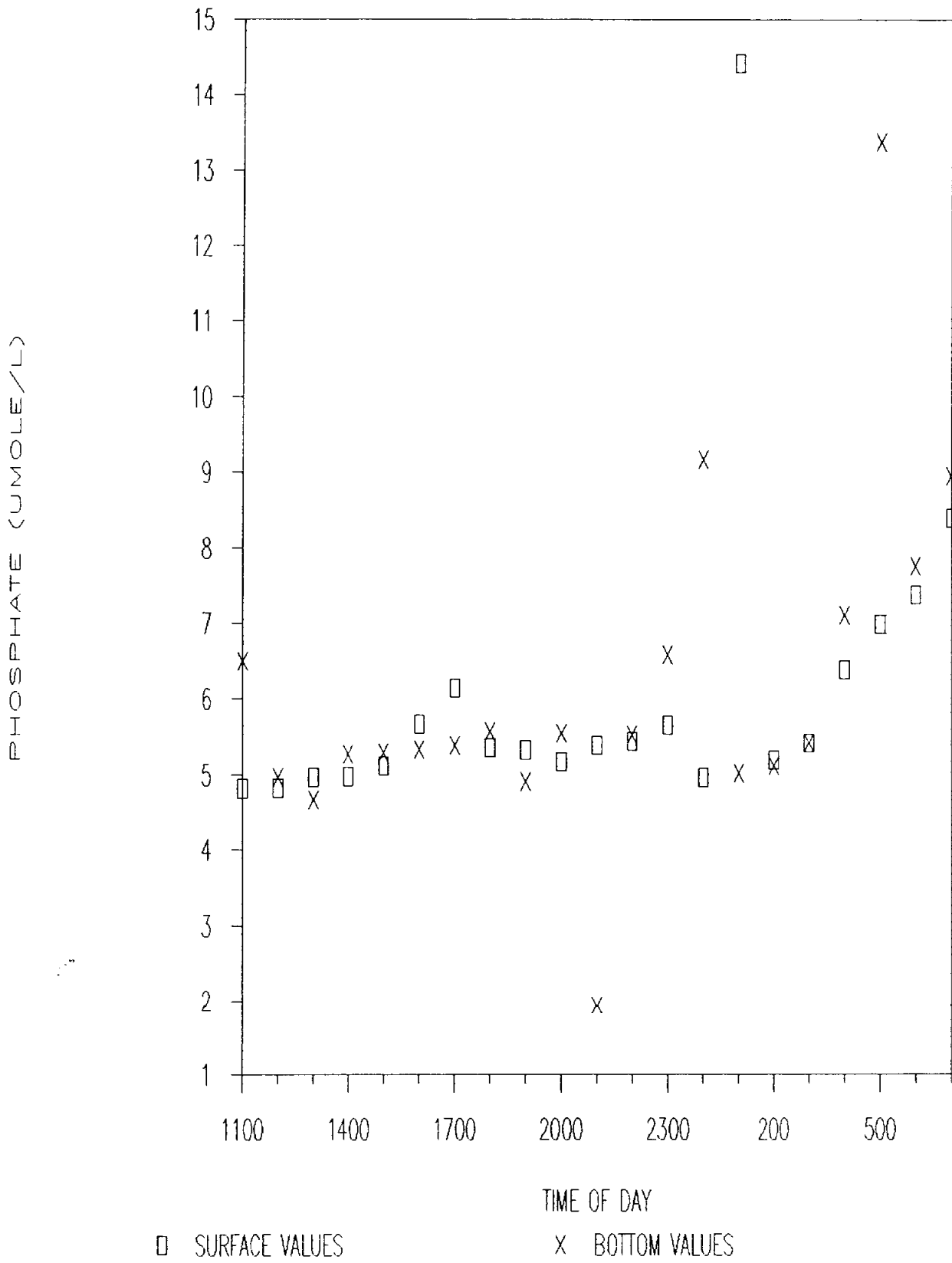
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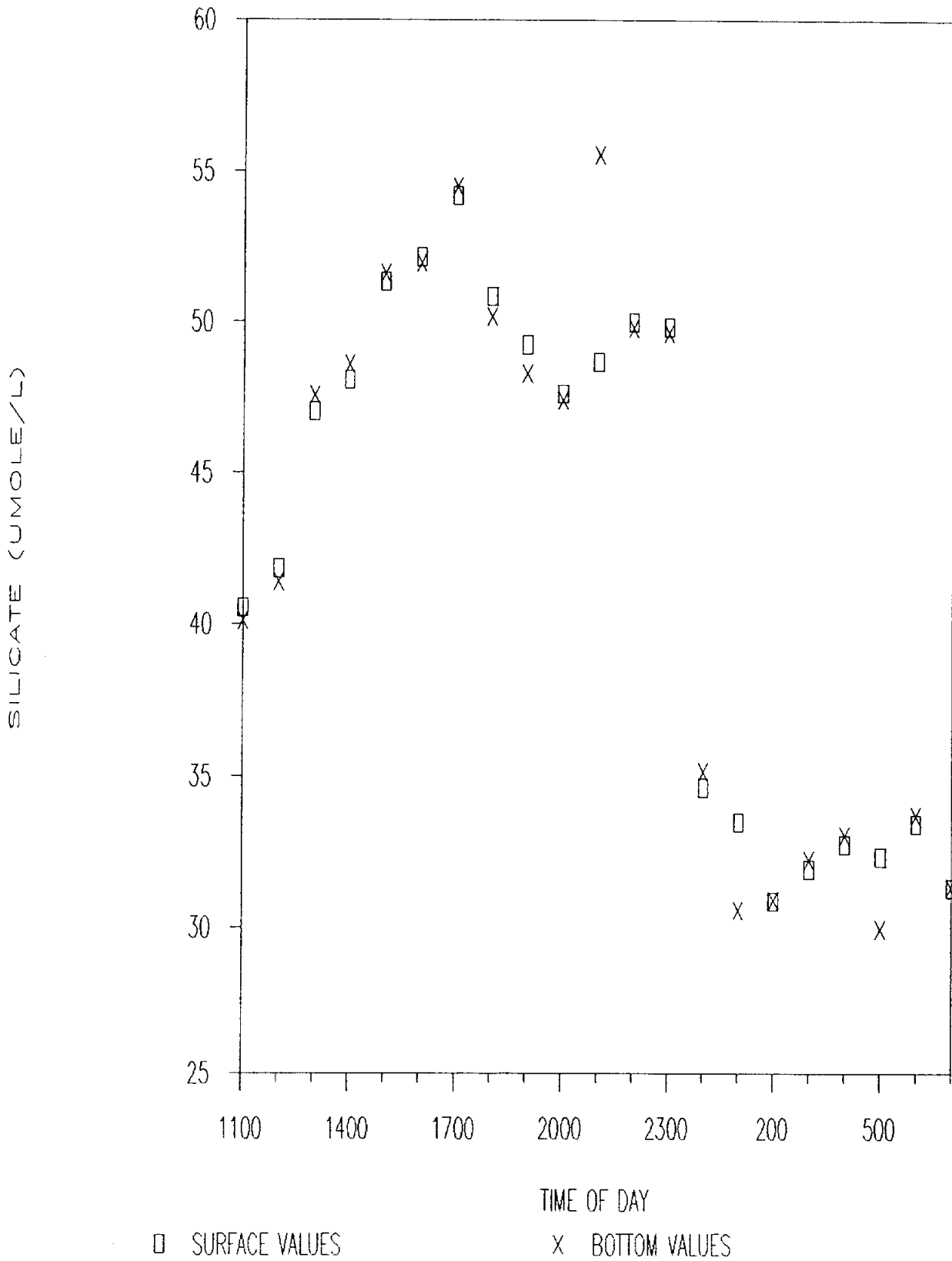
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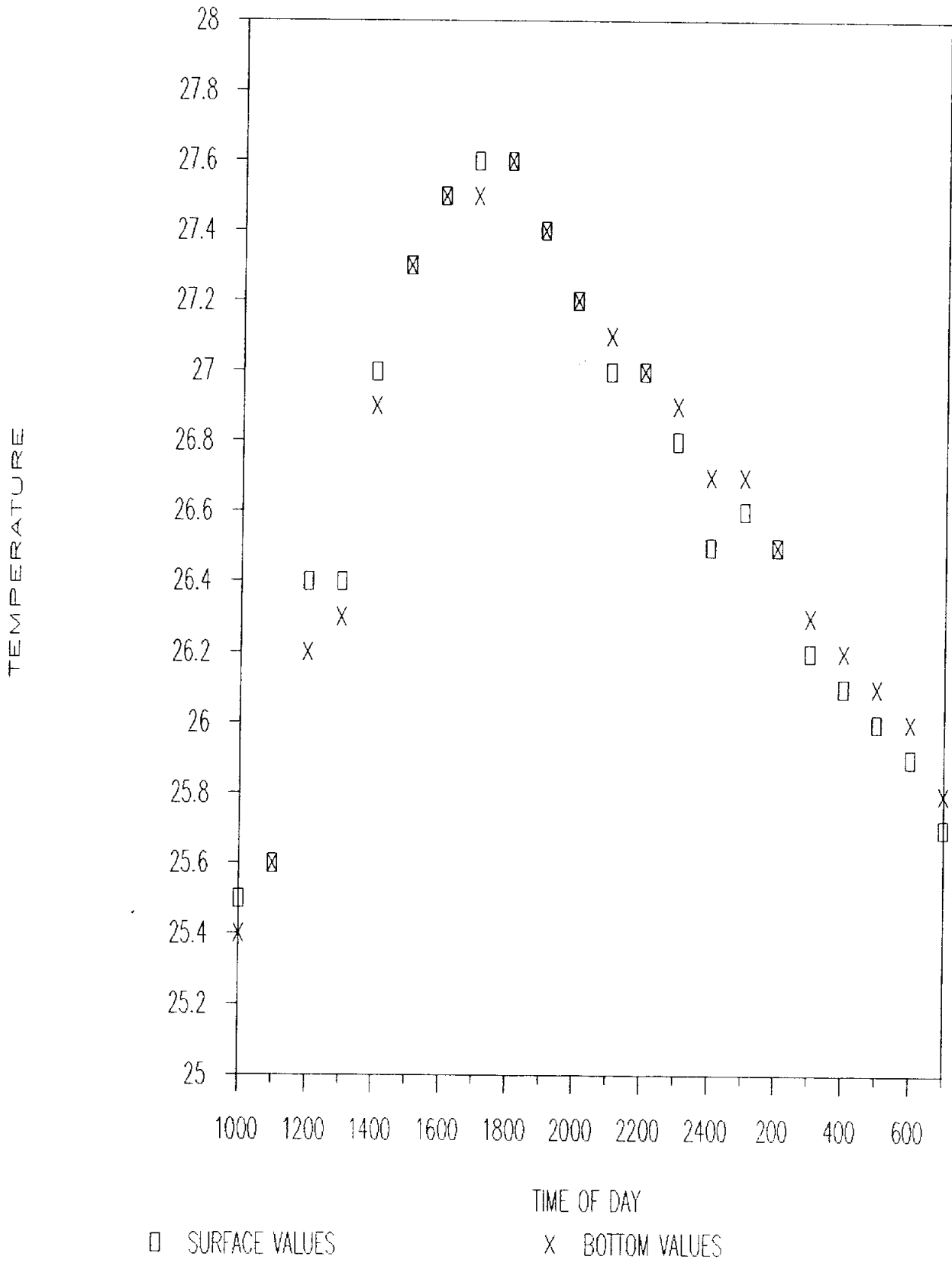
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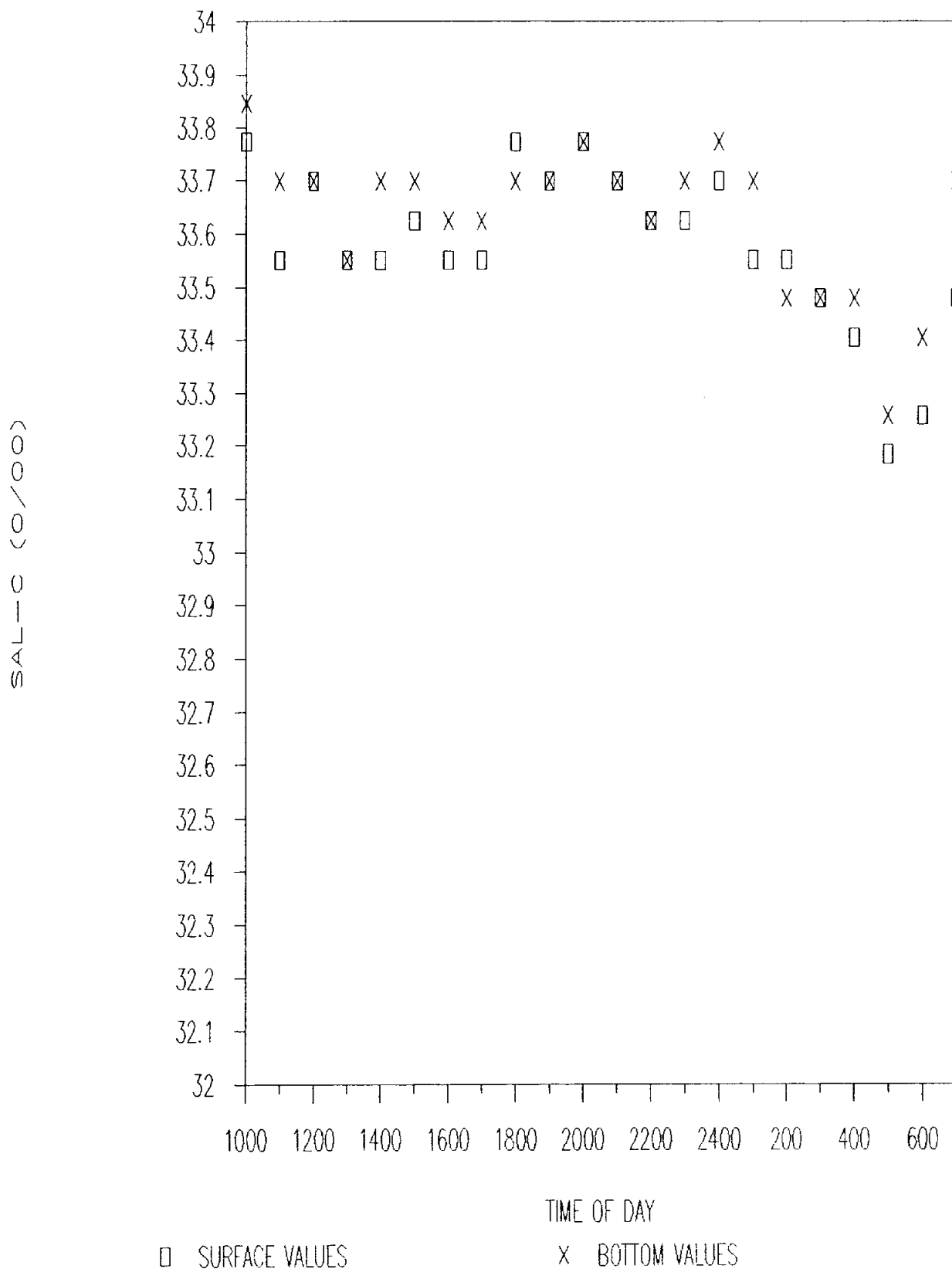
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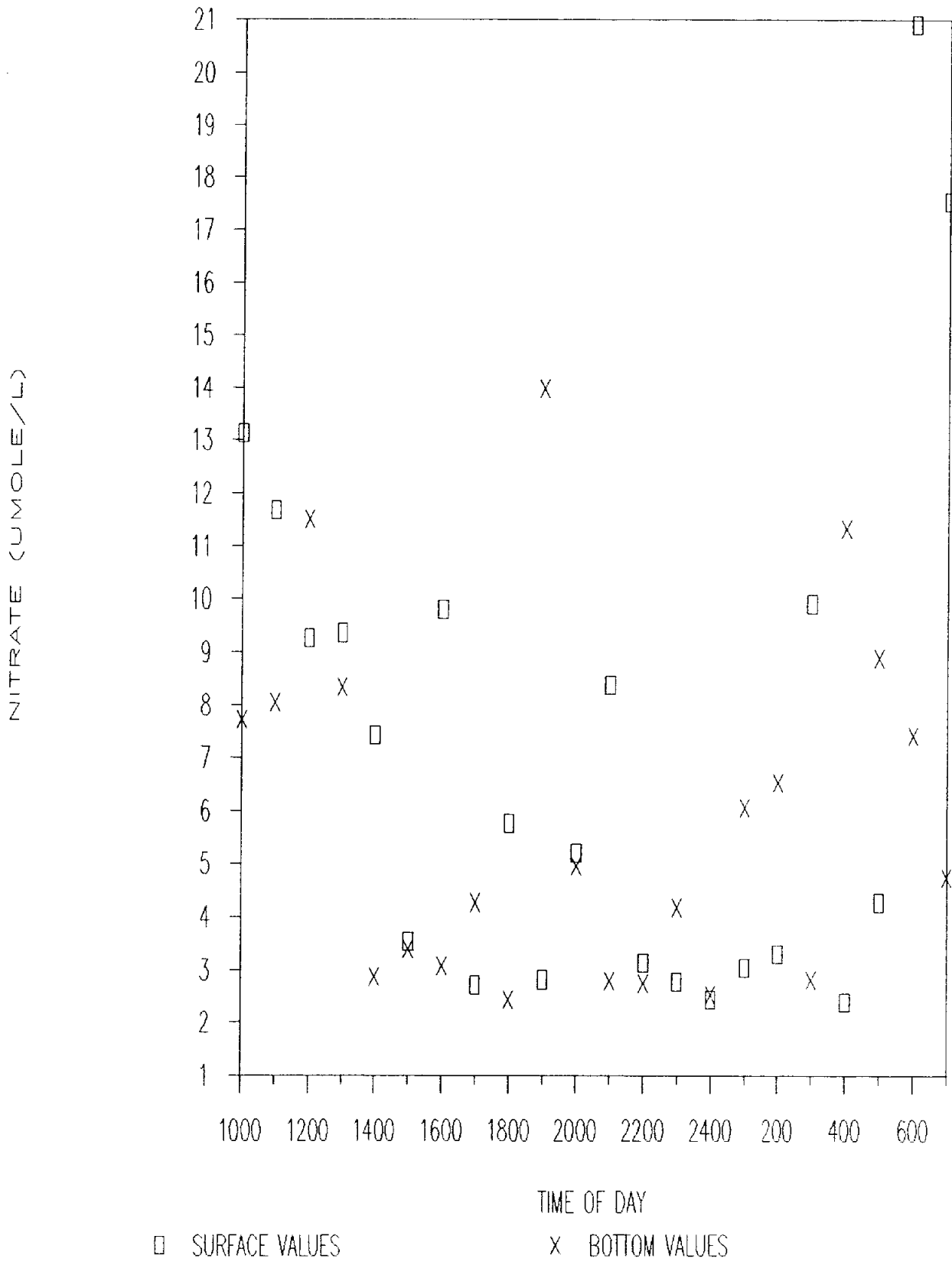
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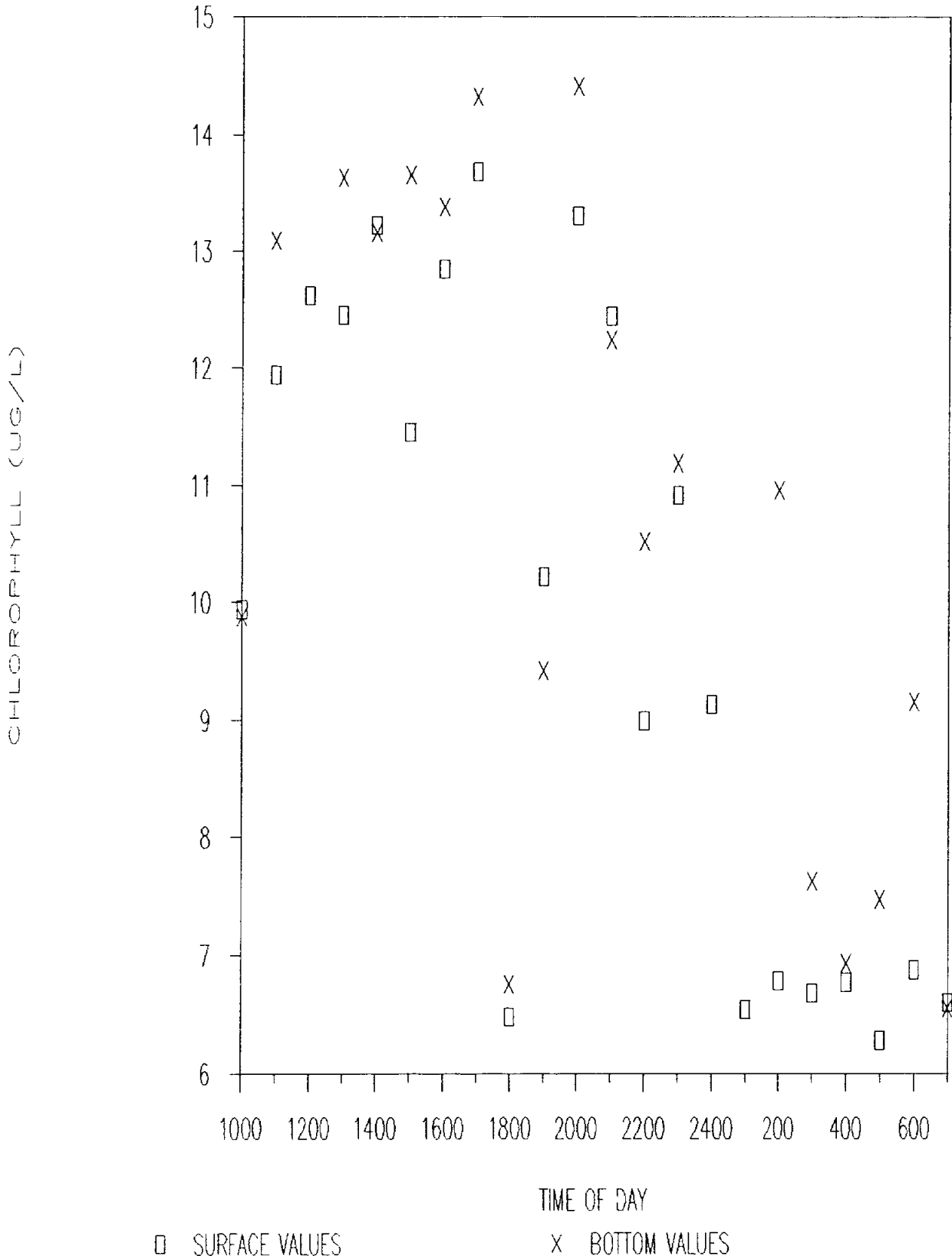
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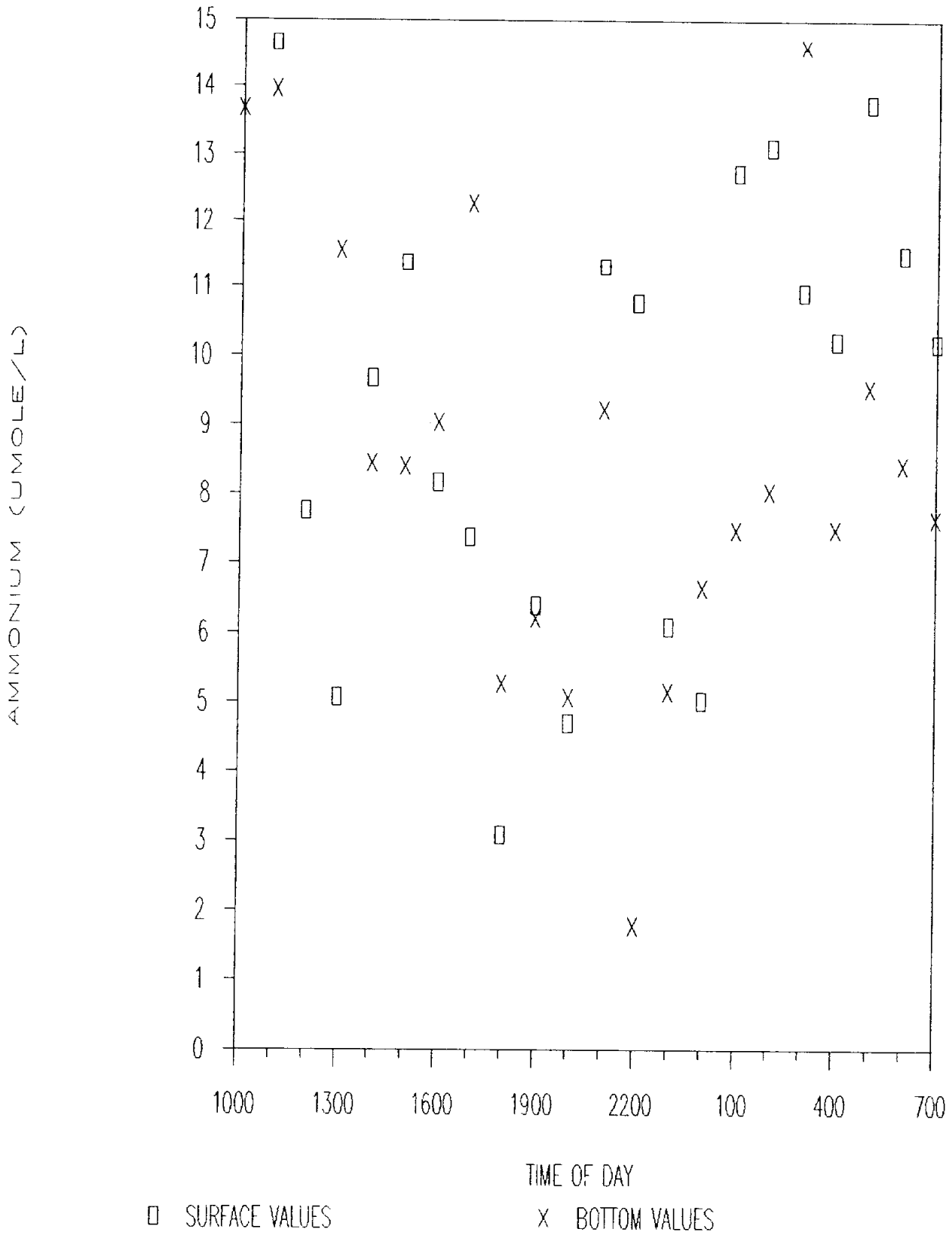
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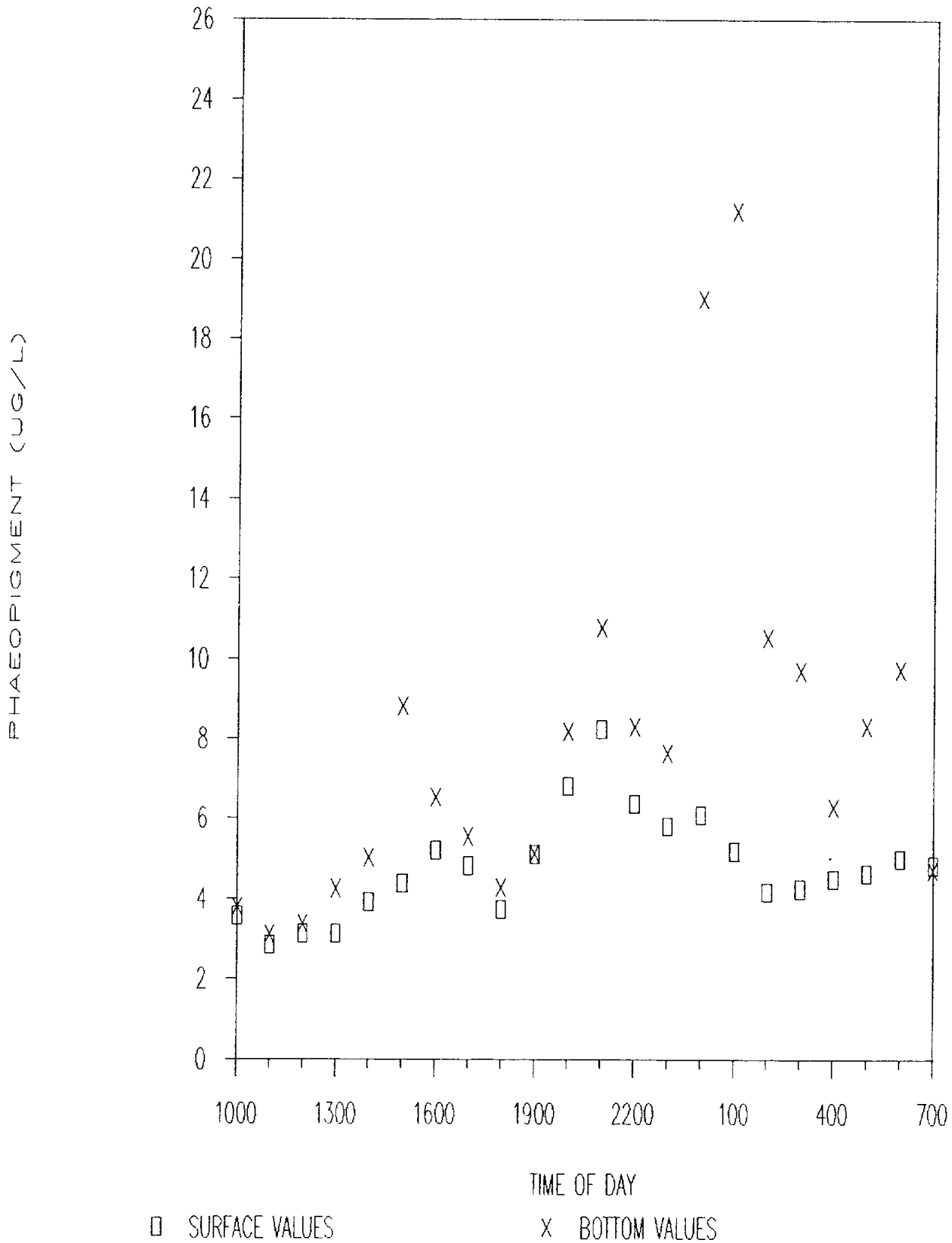
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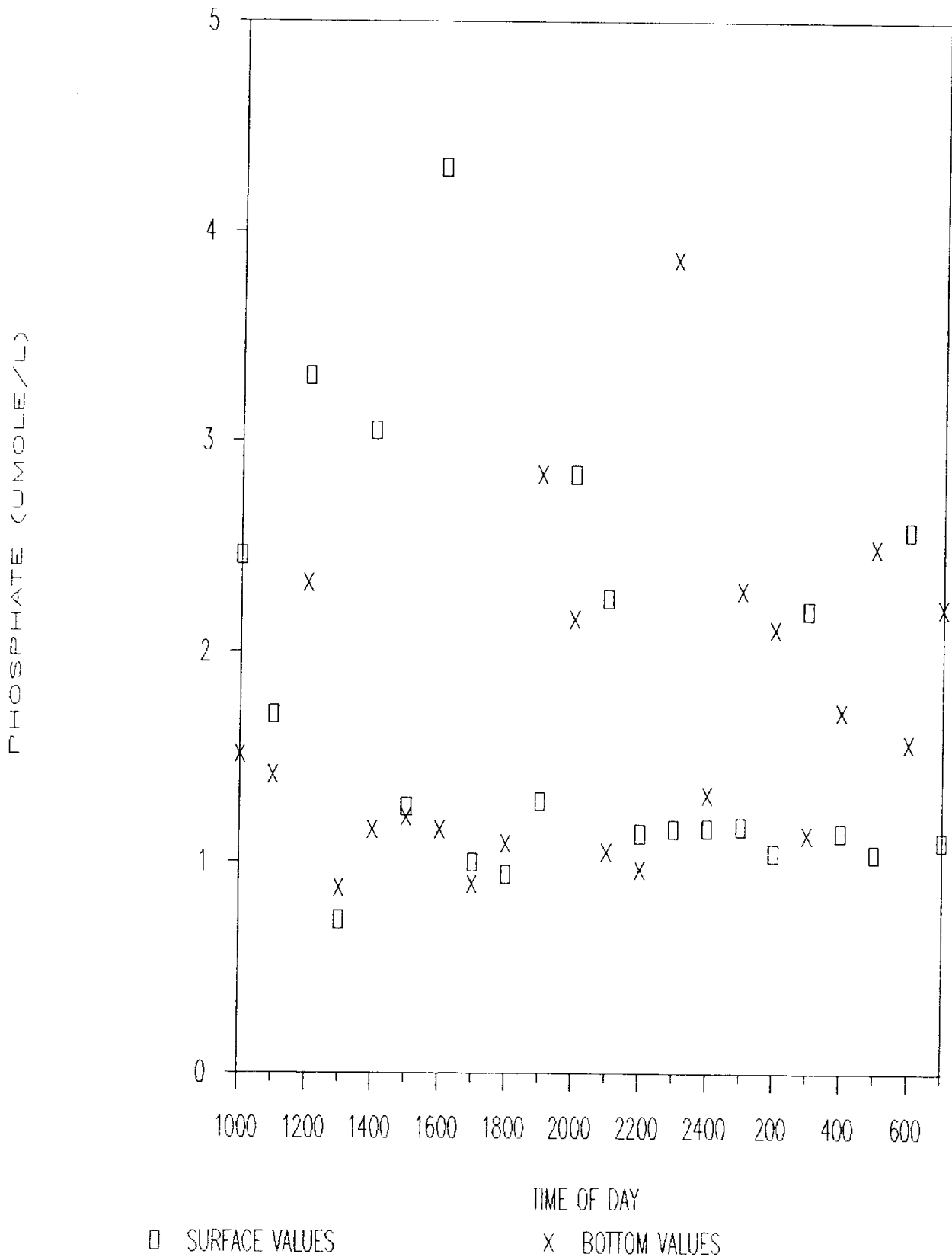
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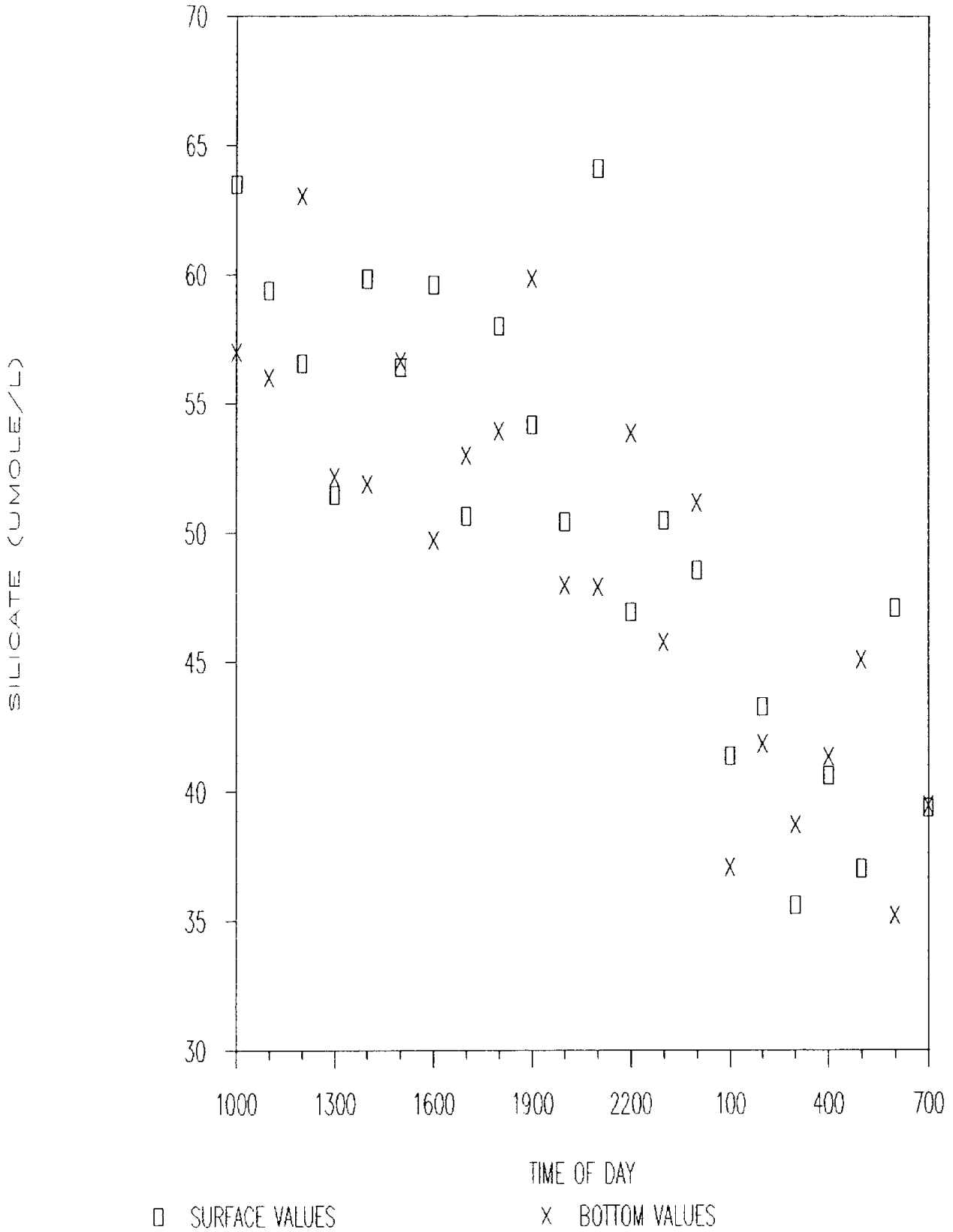
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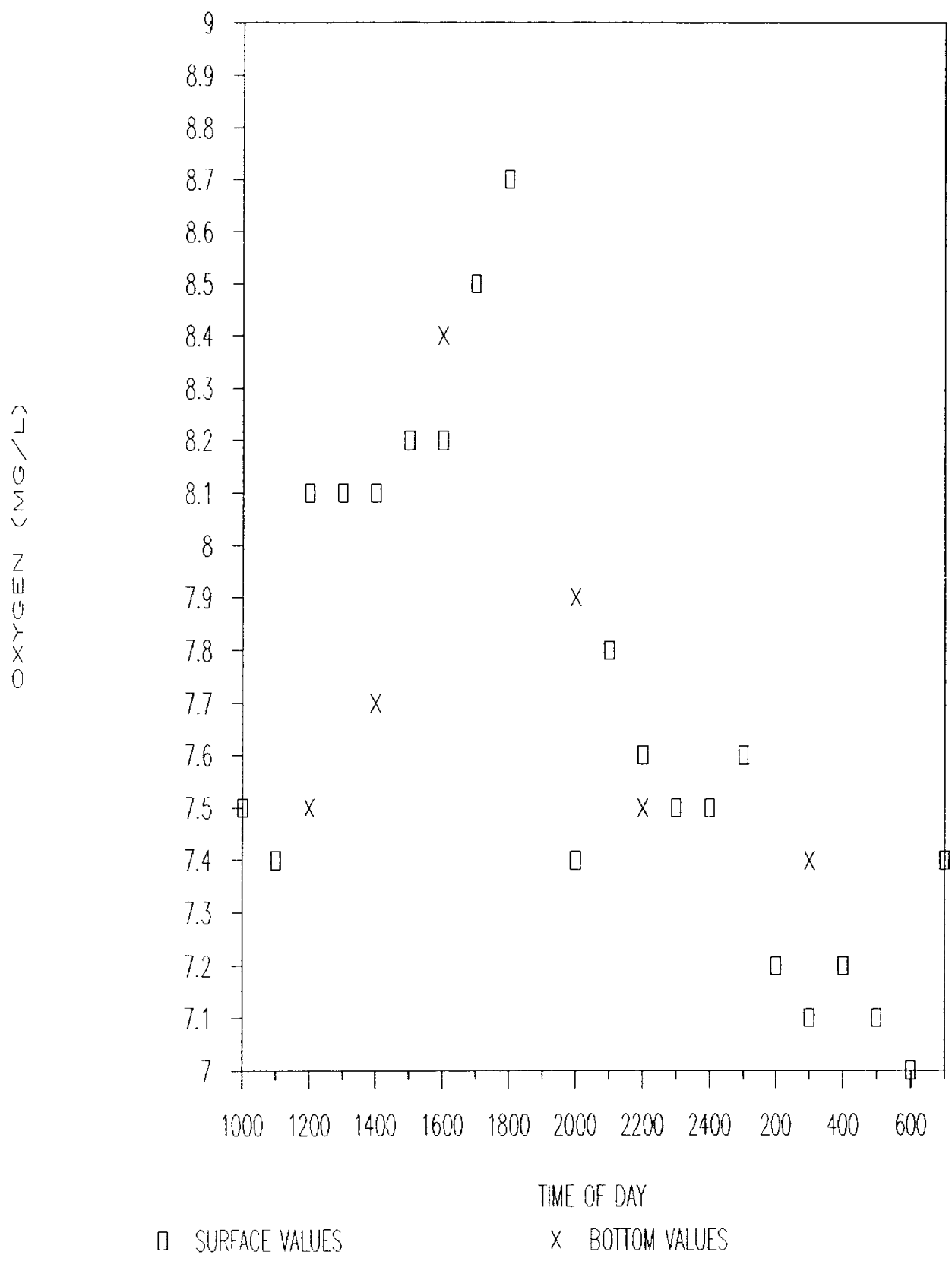
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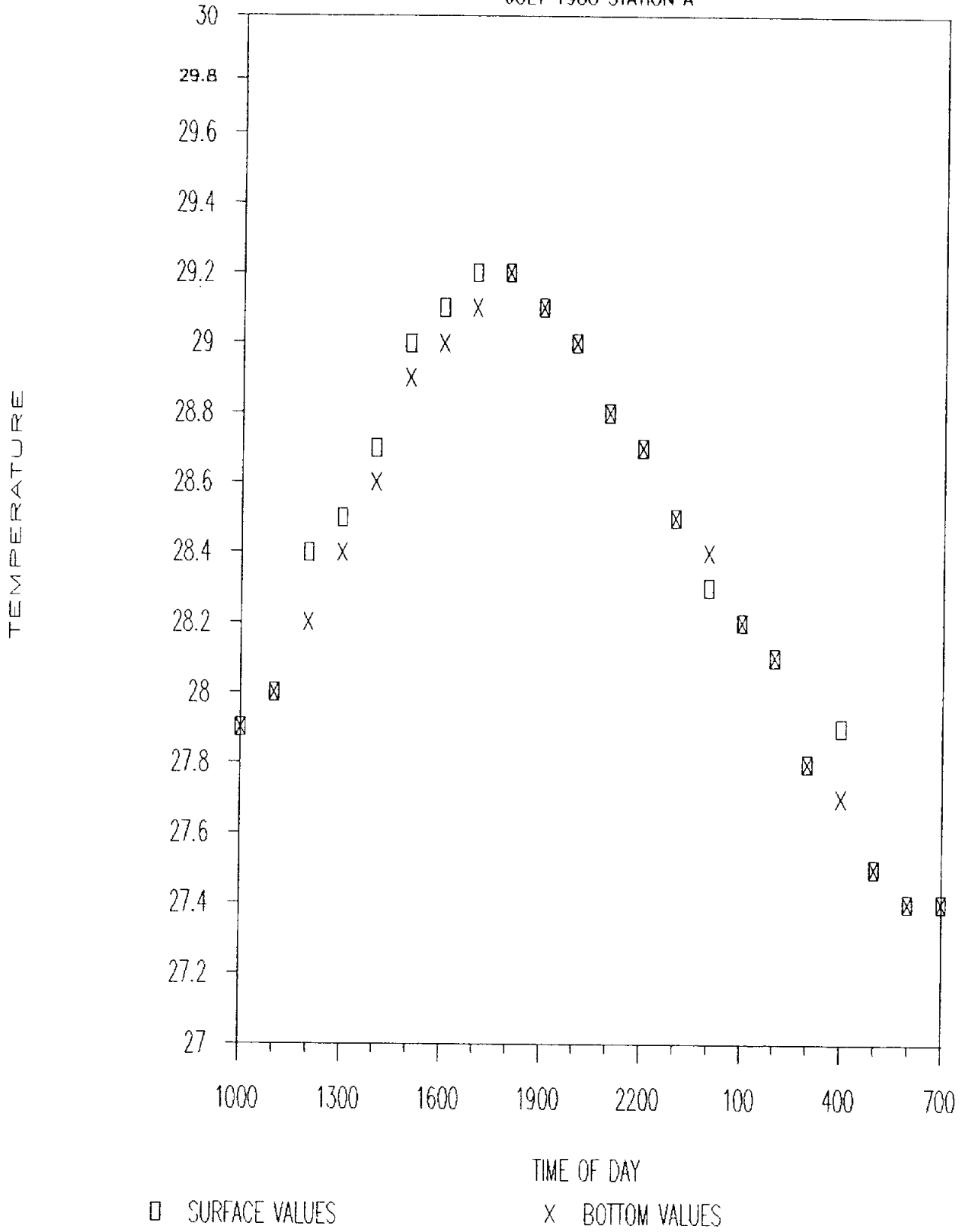
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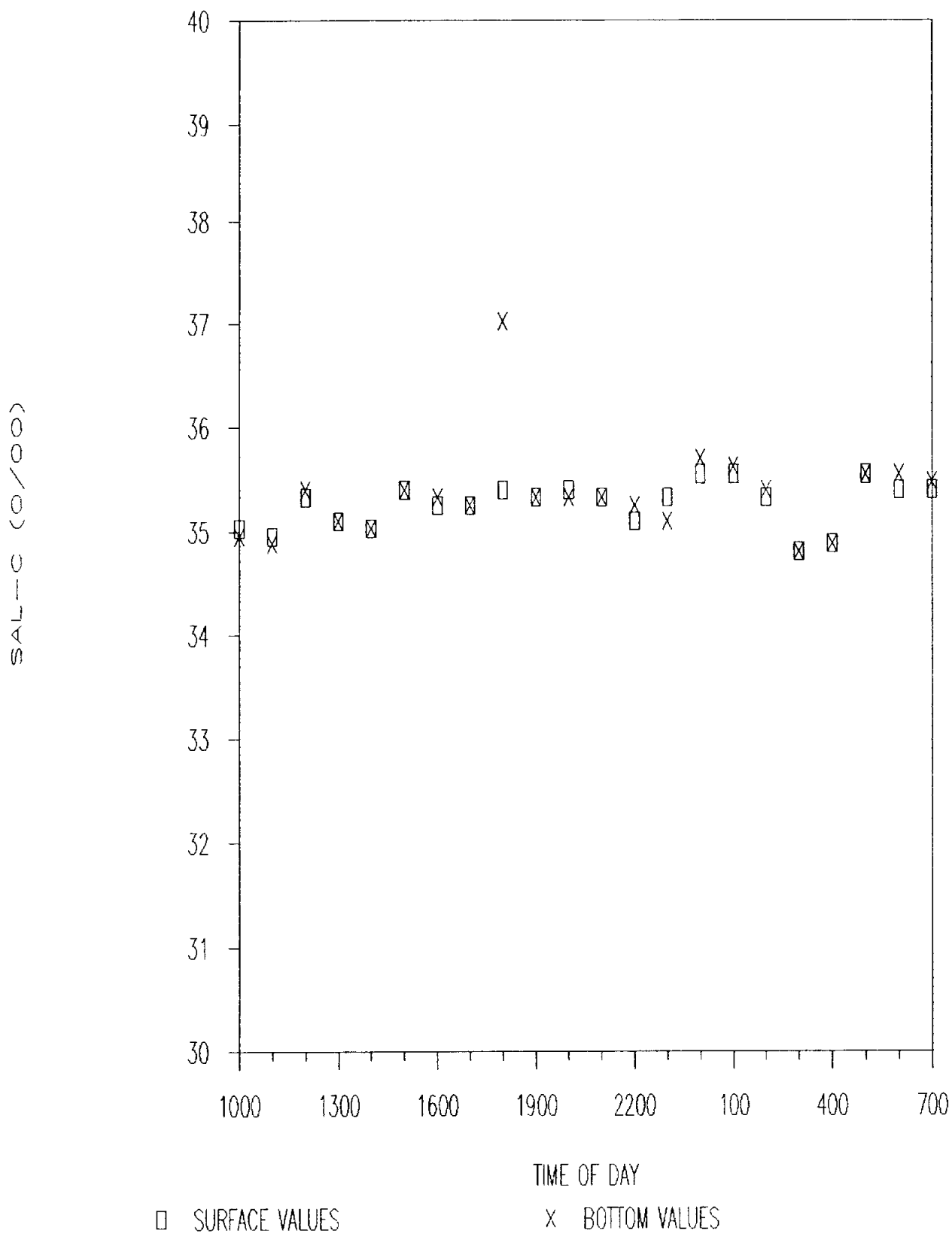
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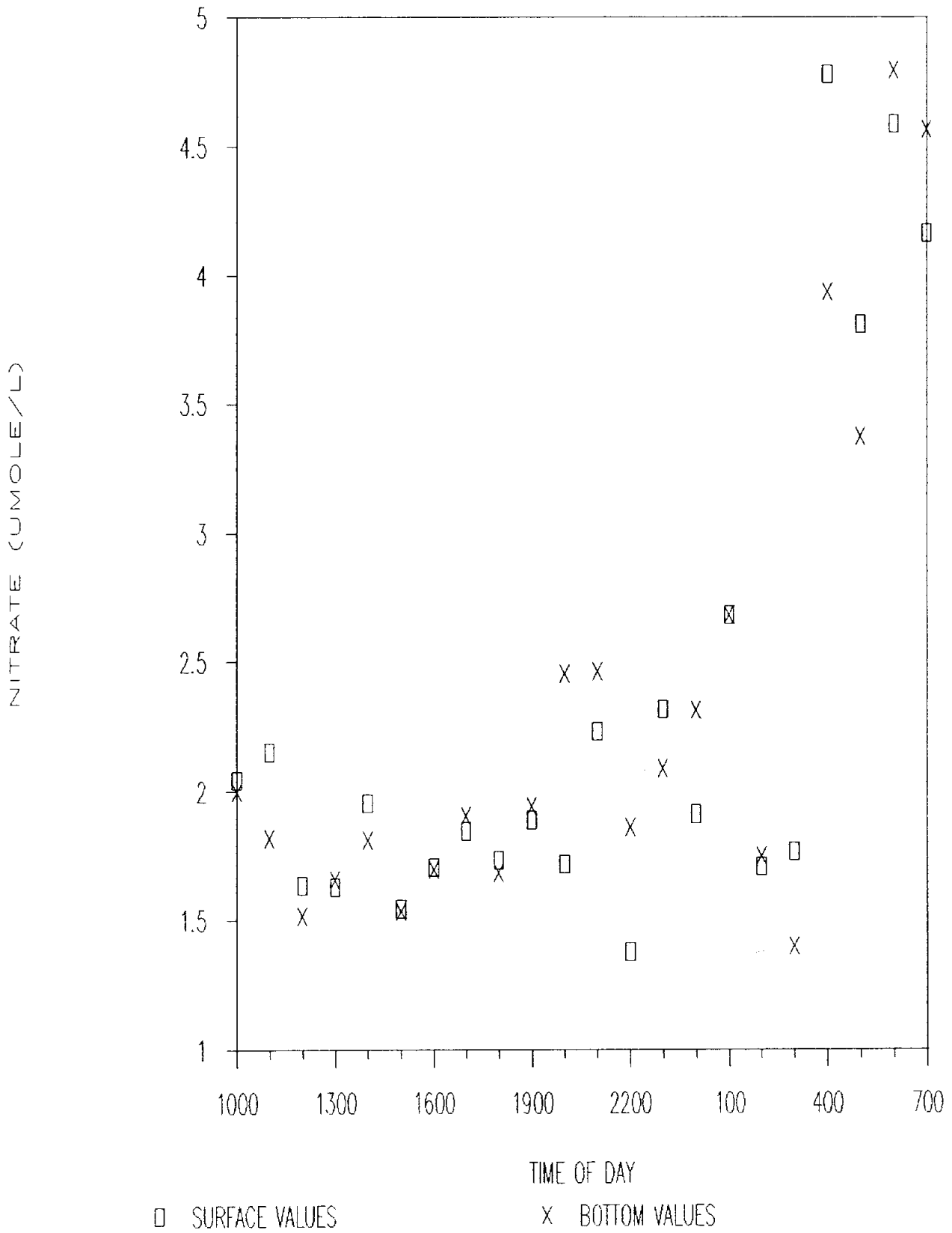
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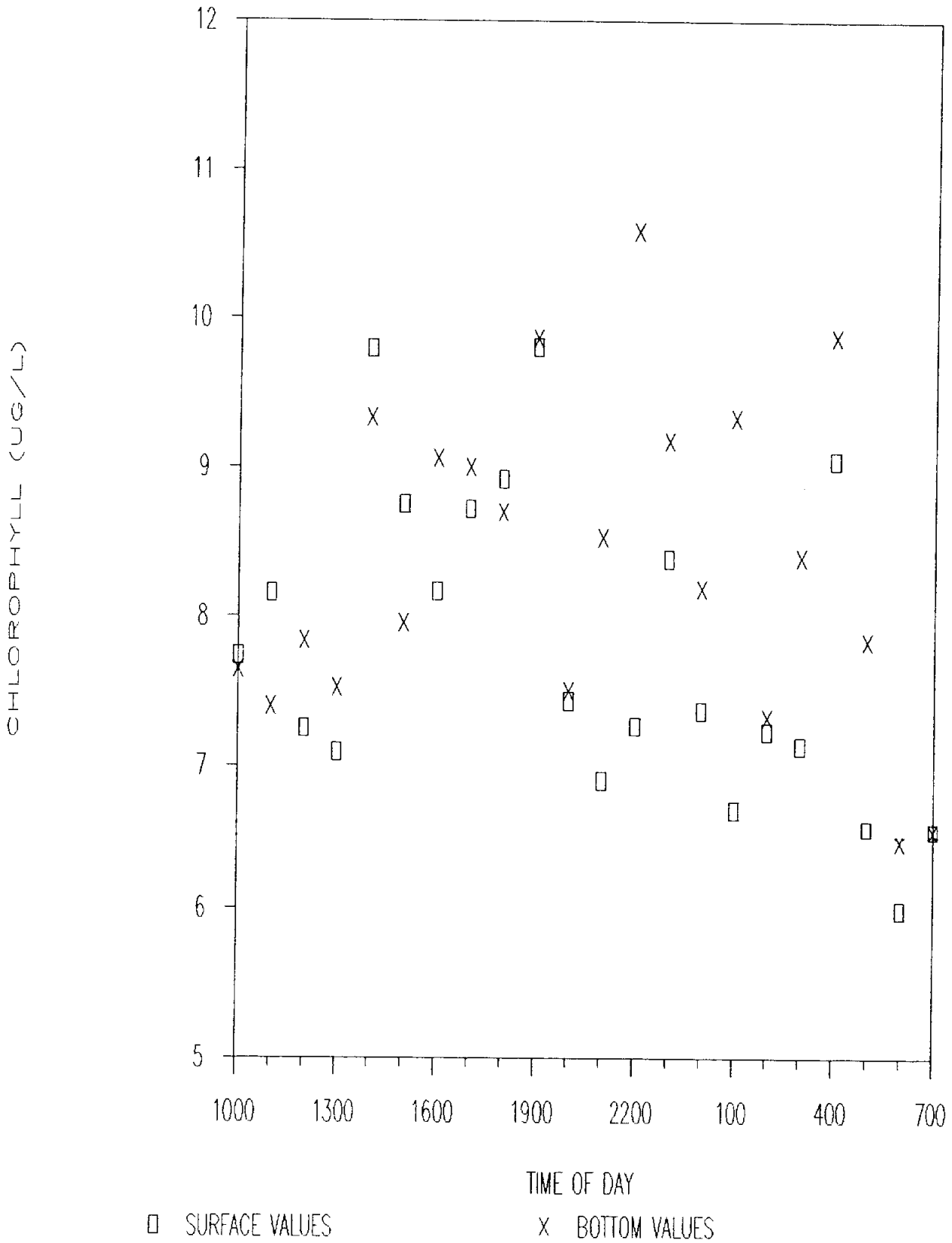
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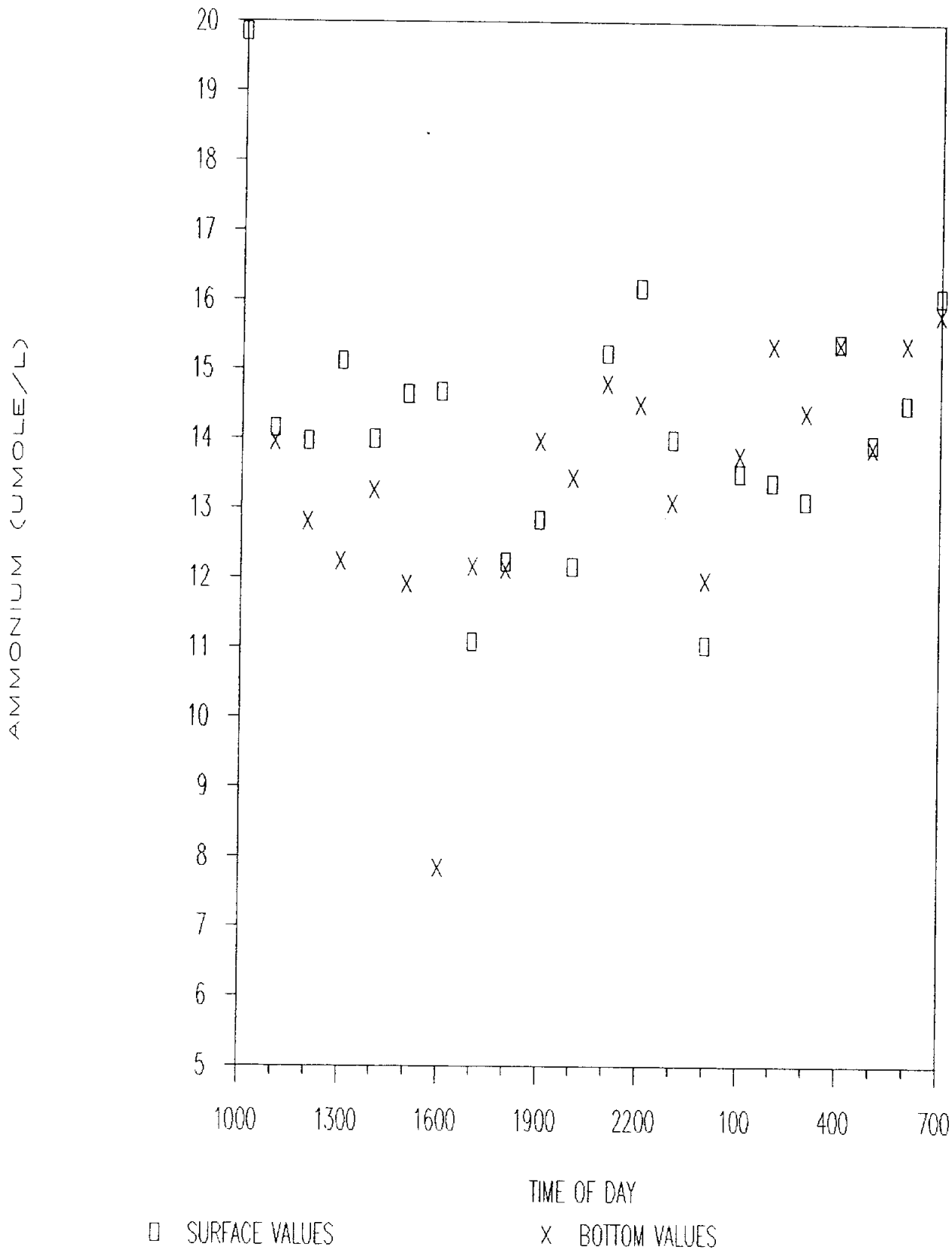
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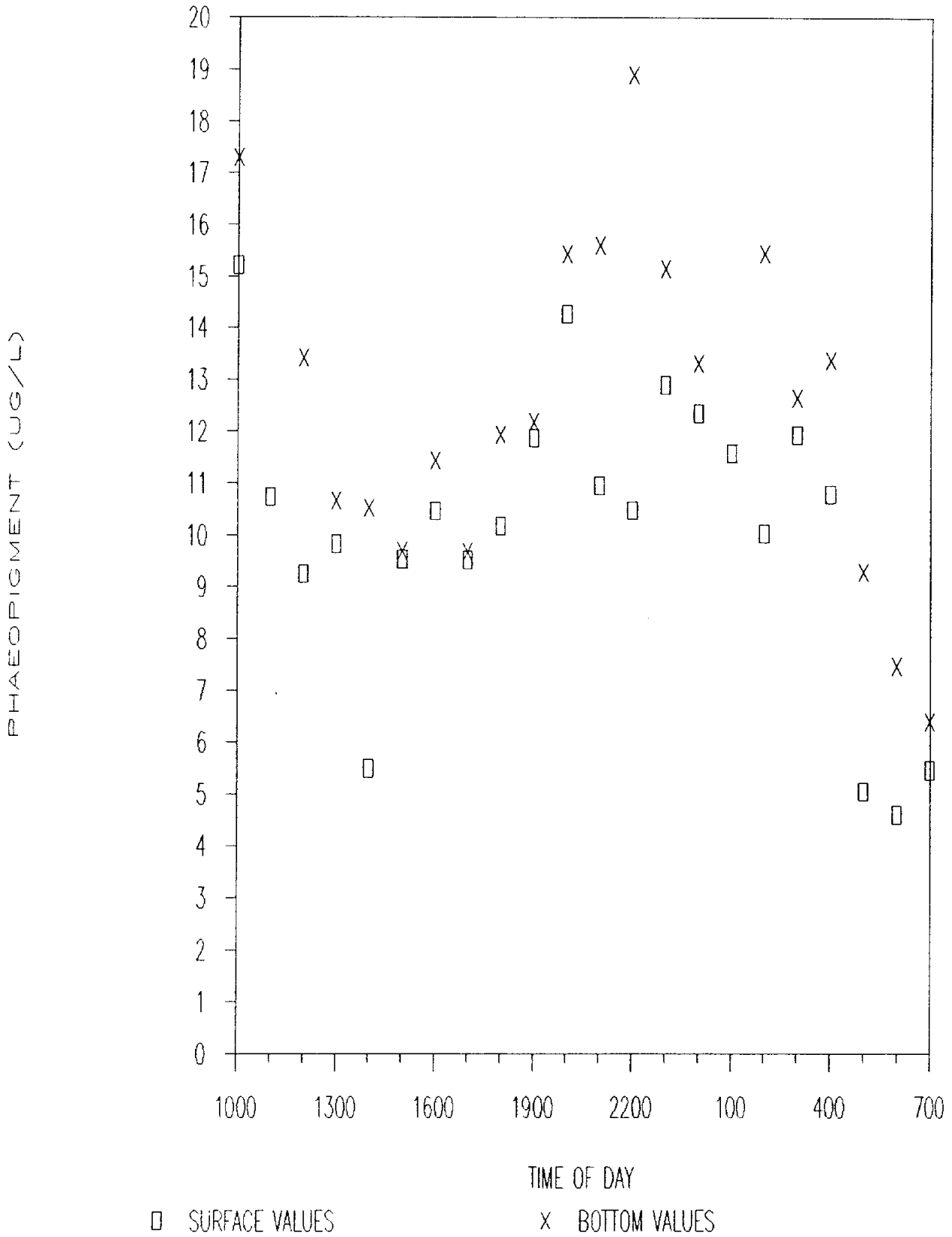
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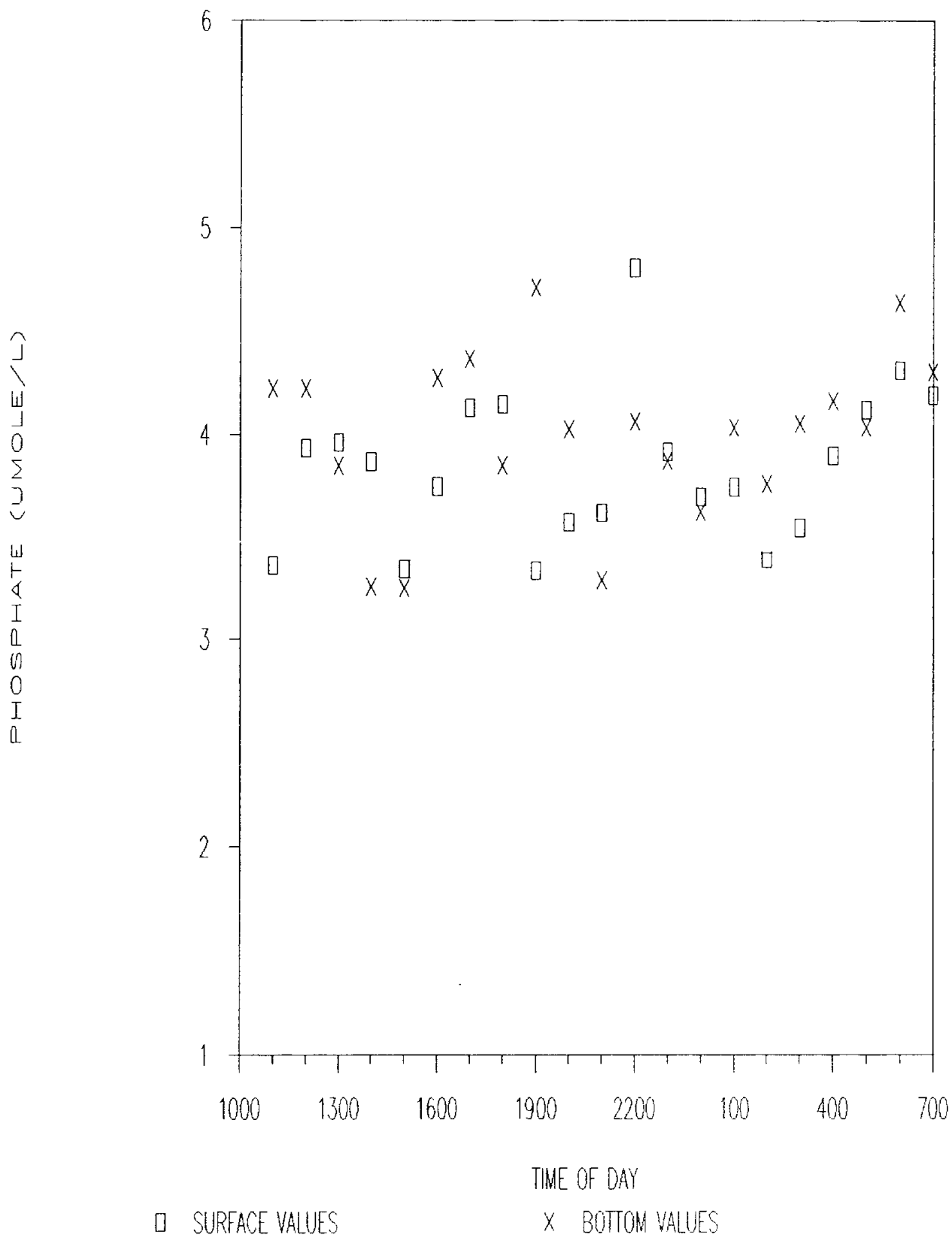
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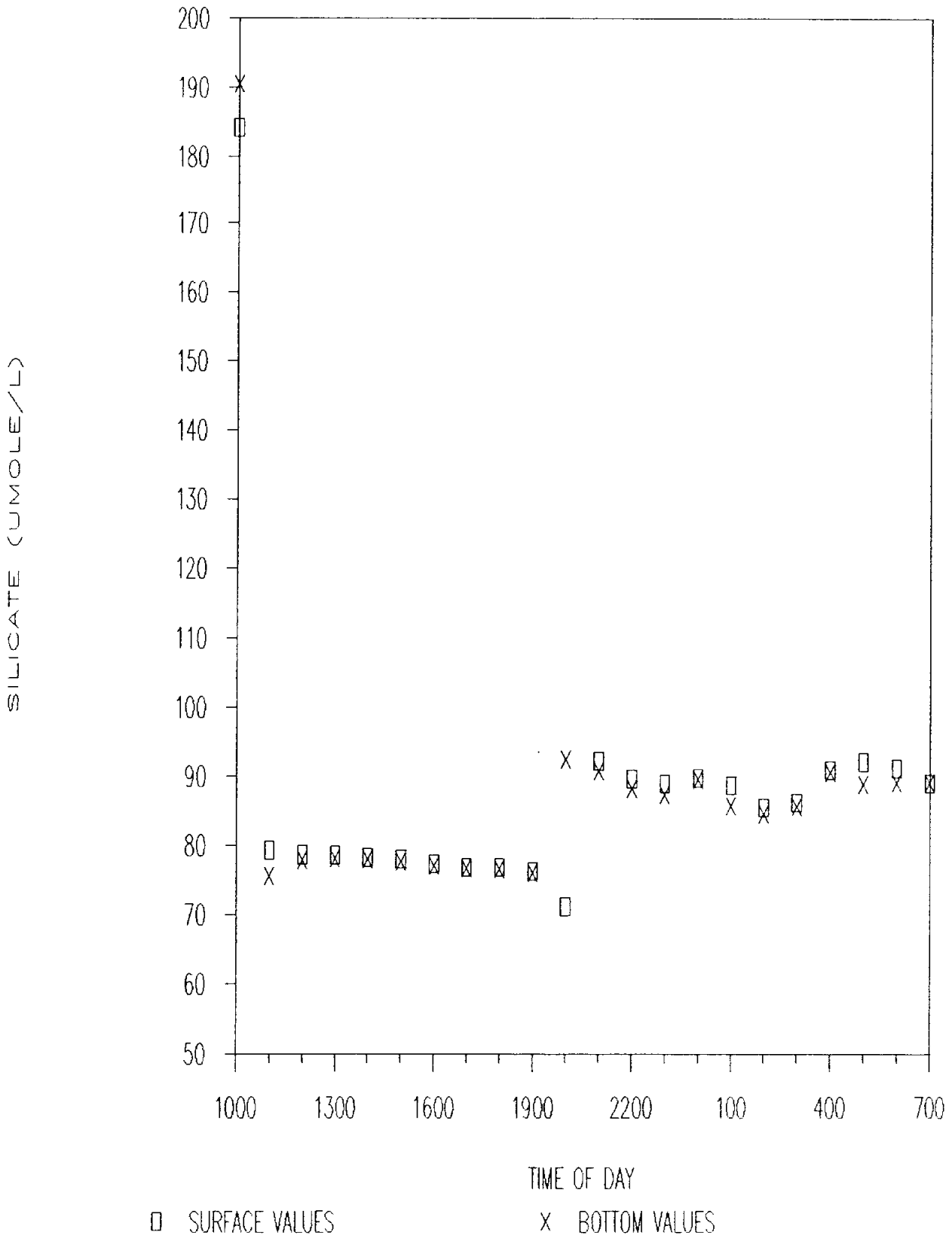
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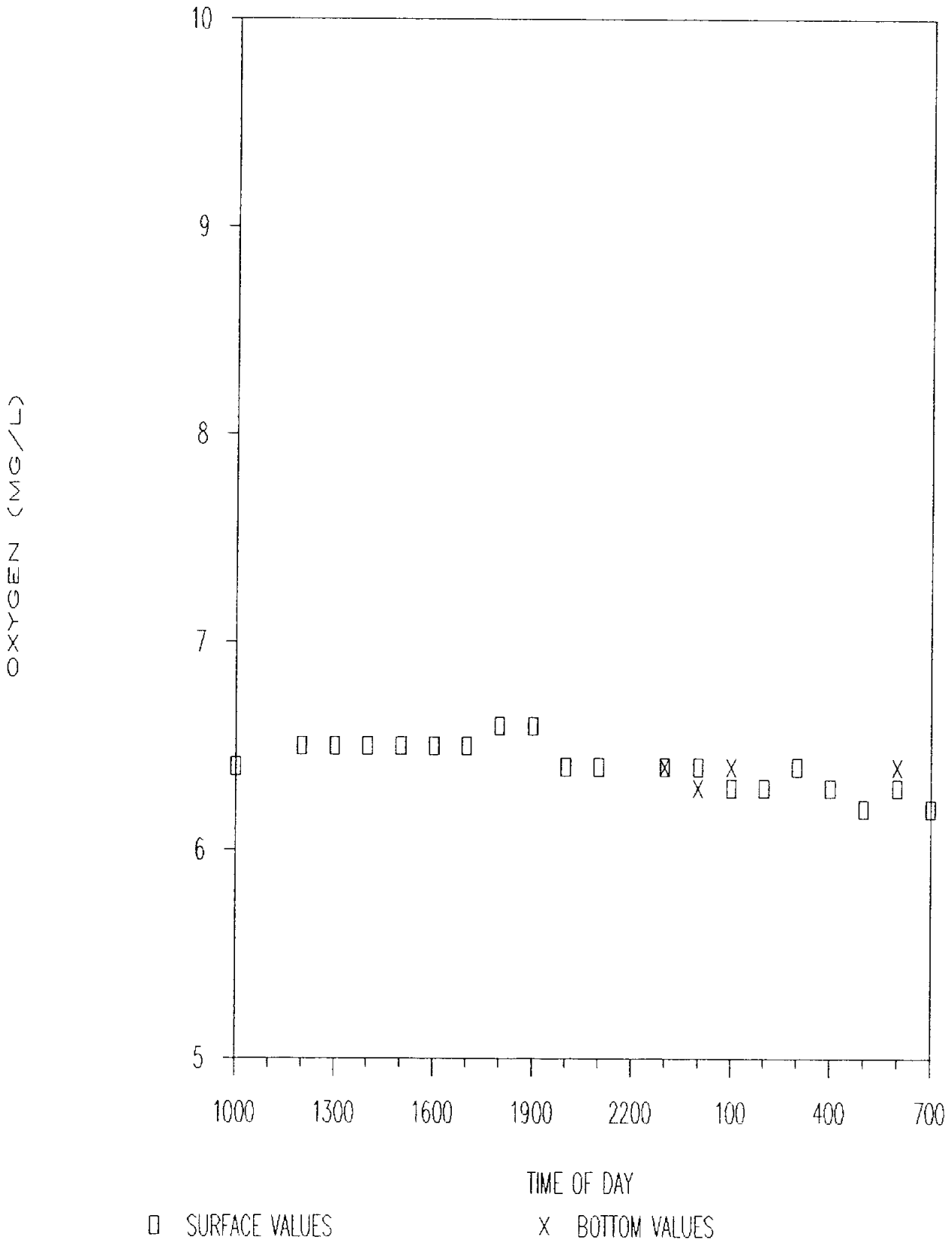
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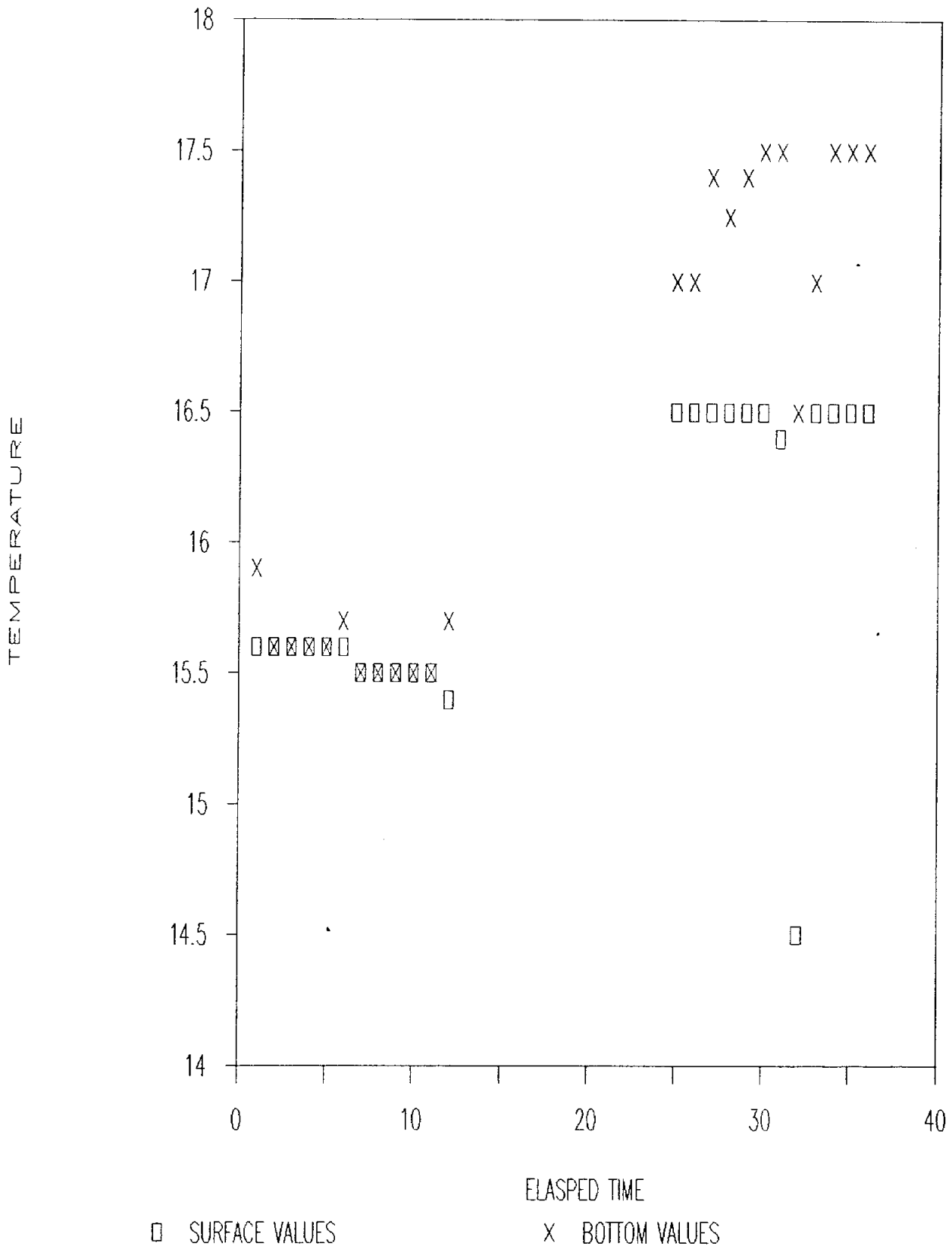
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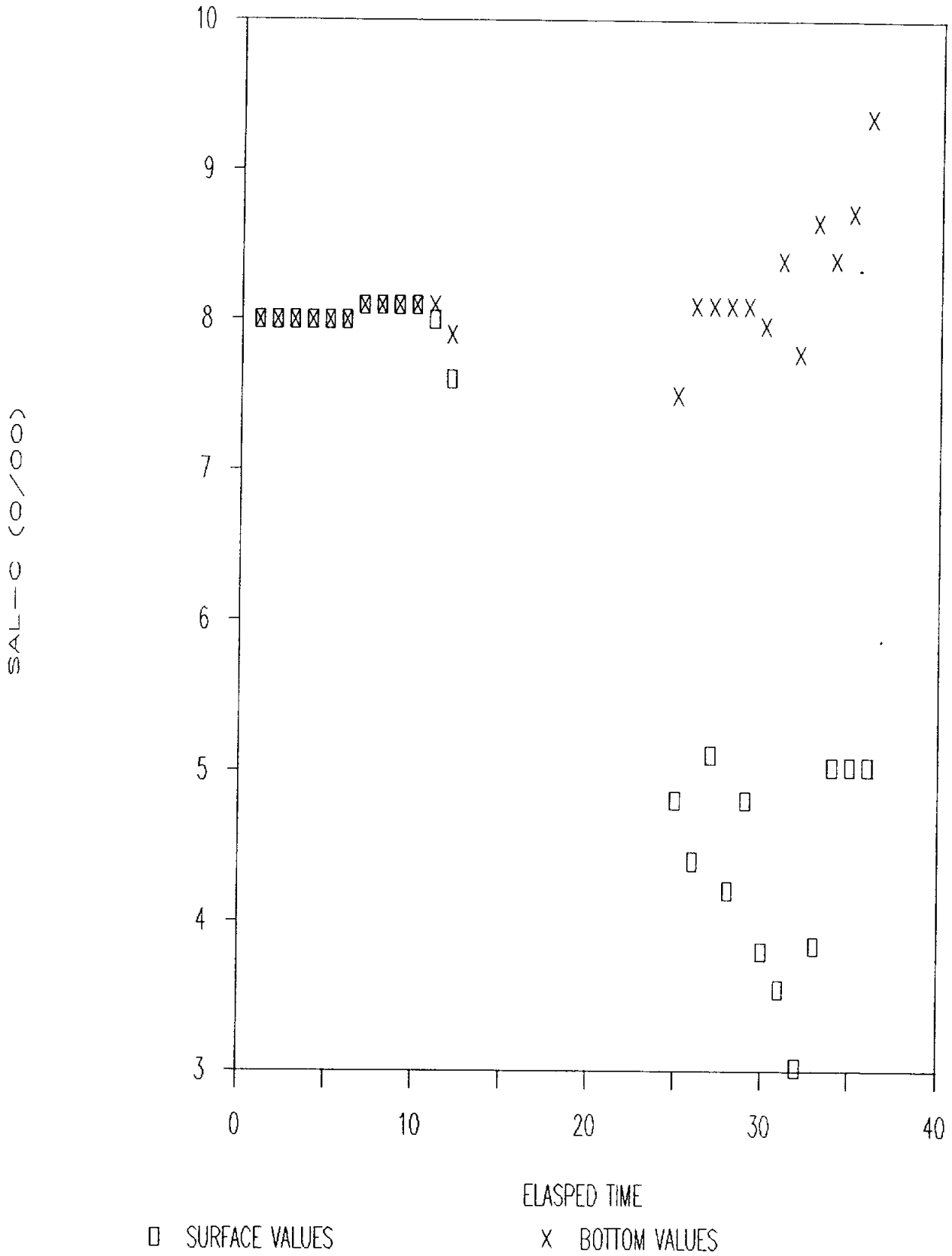
SAN ANTONIO BAY

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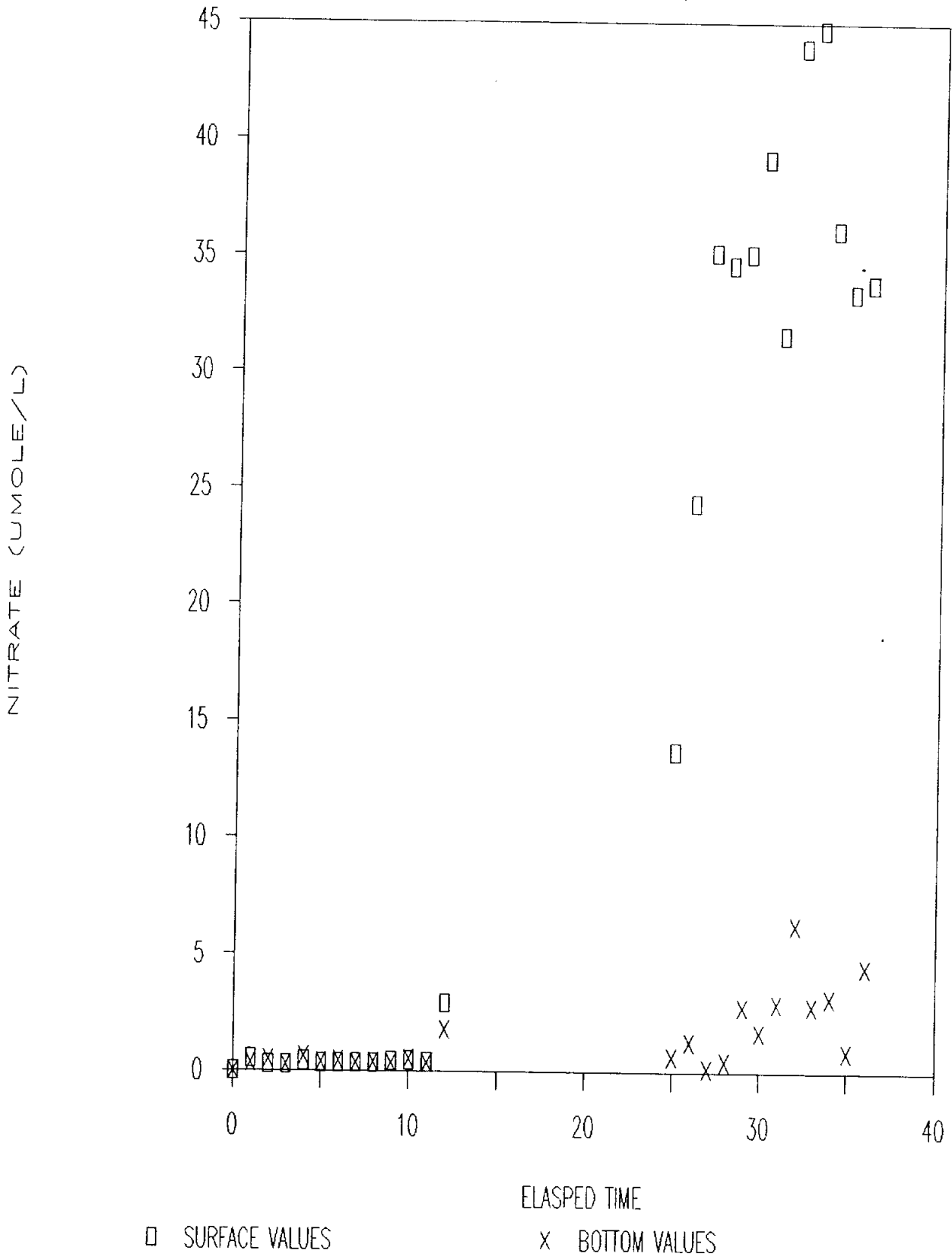
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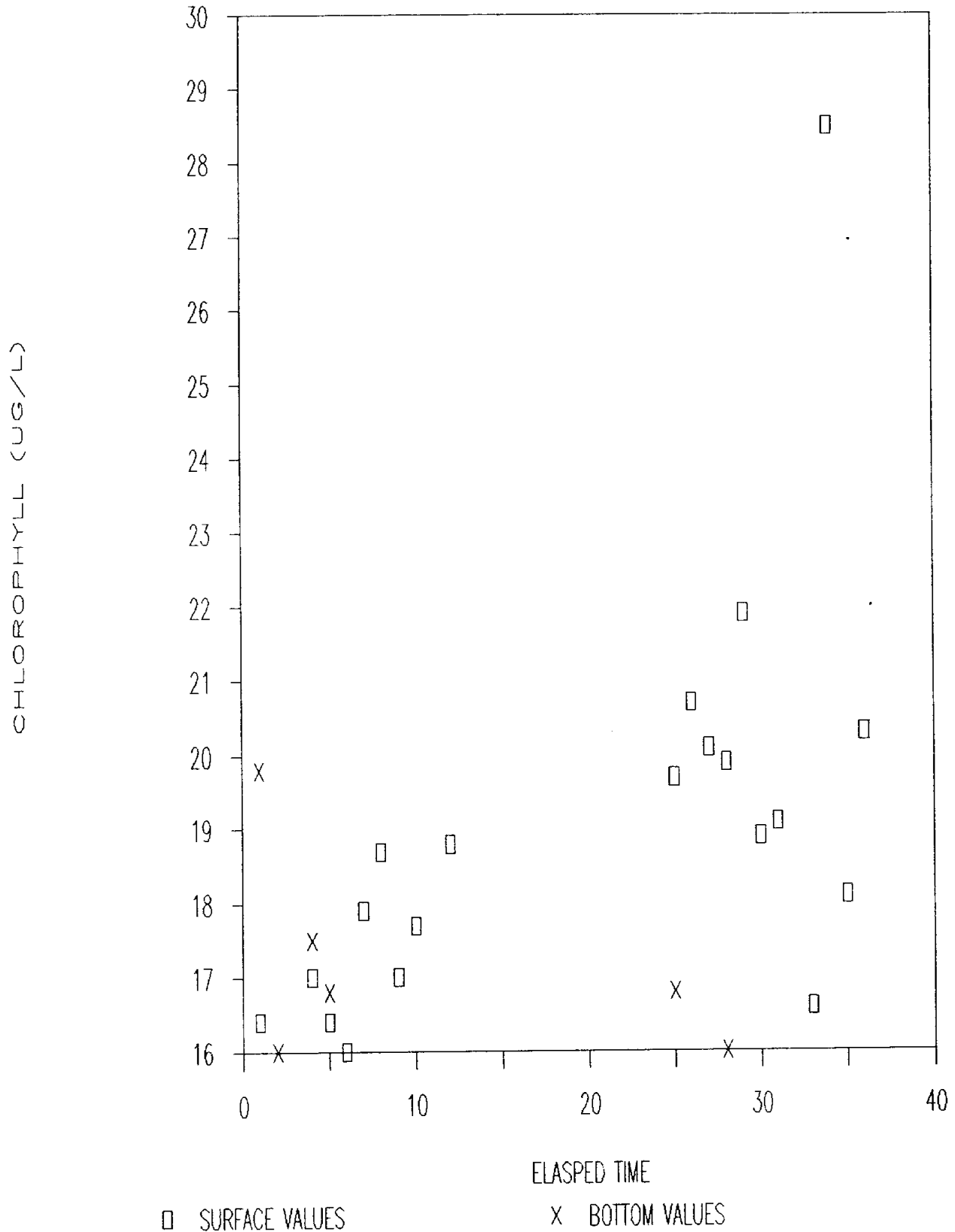
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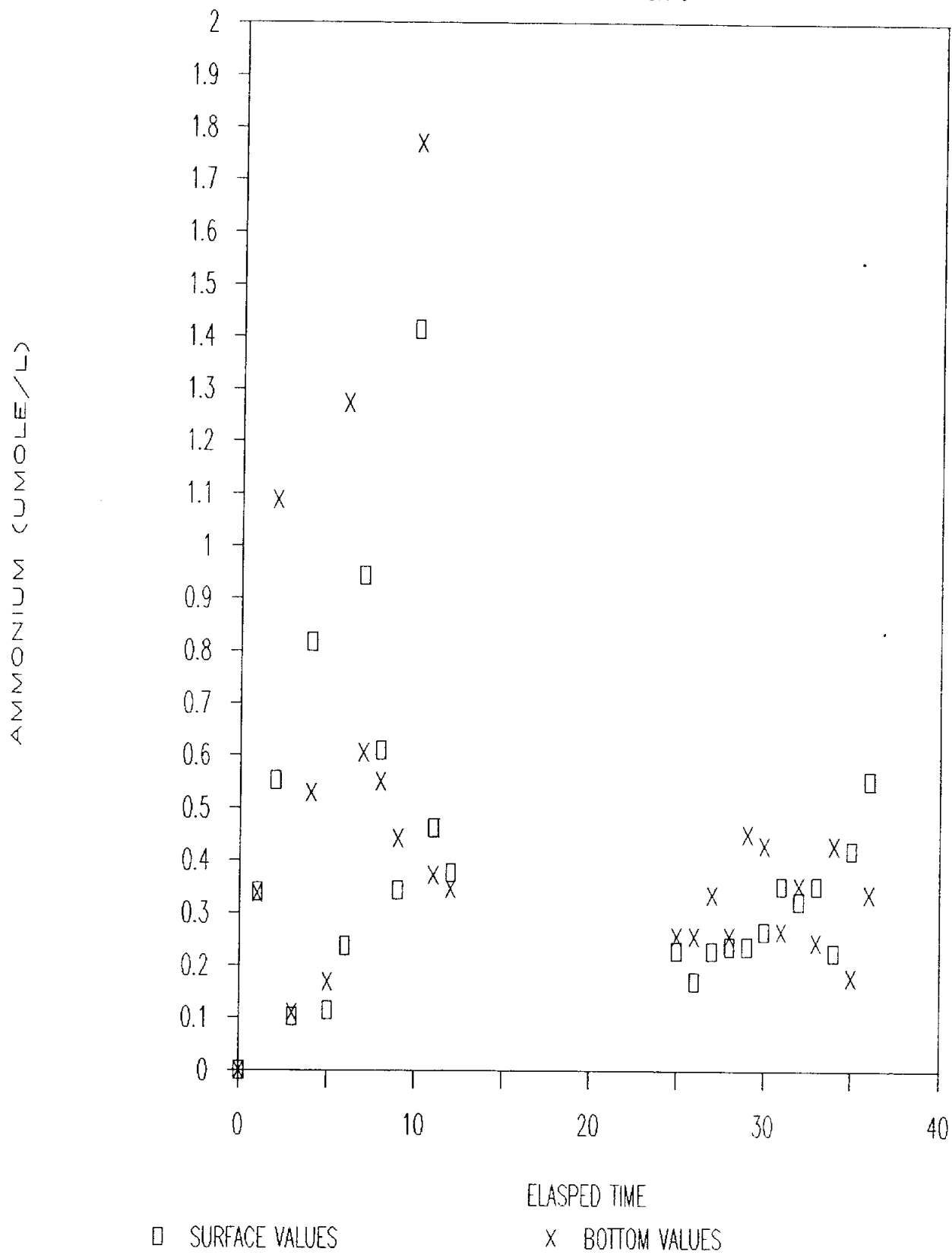
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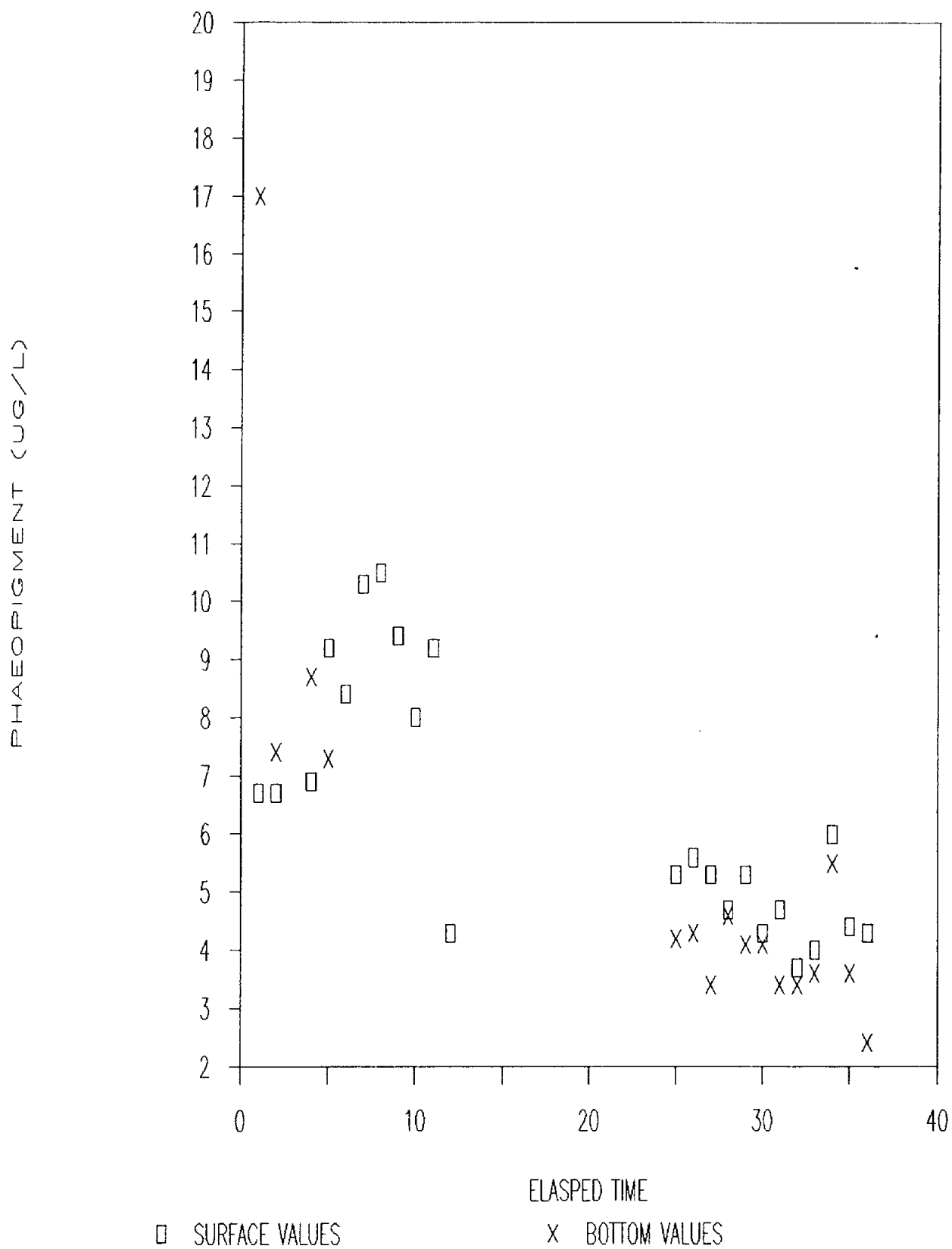
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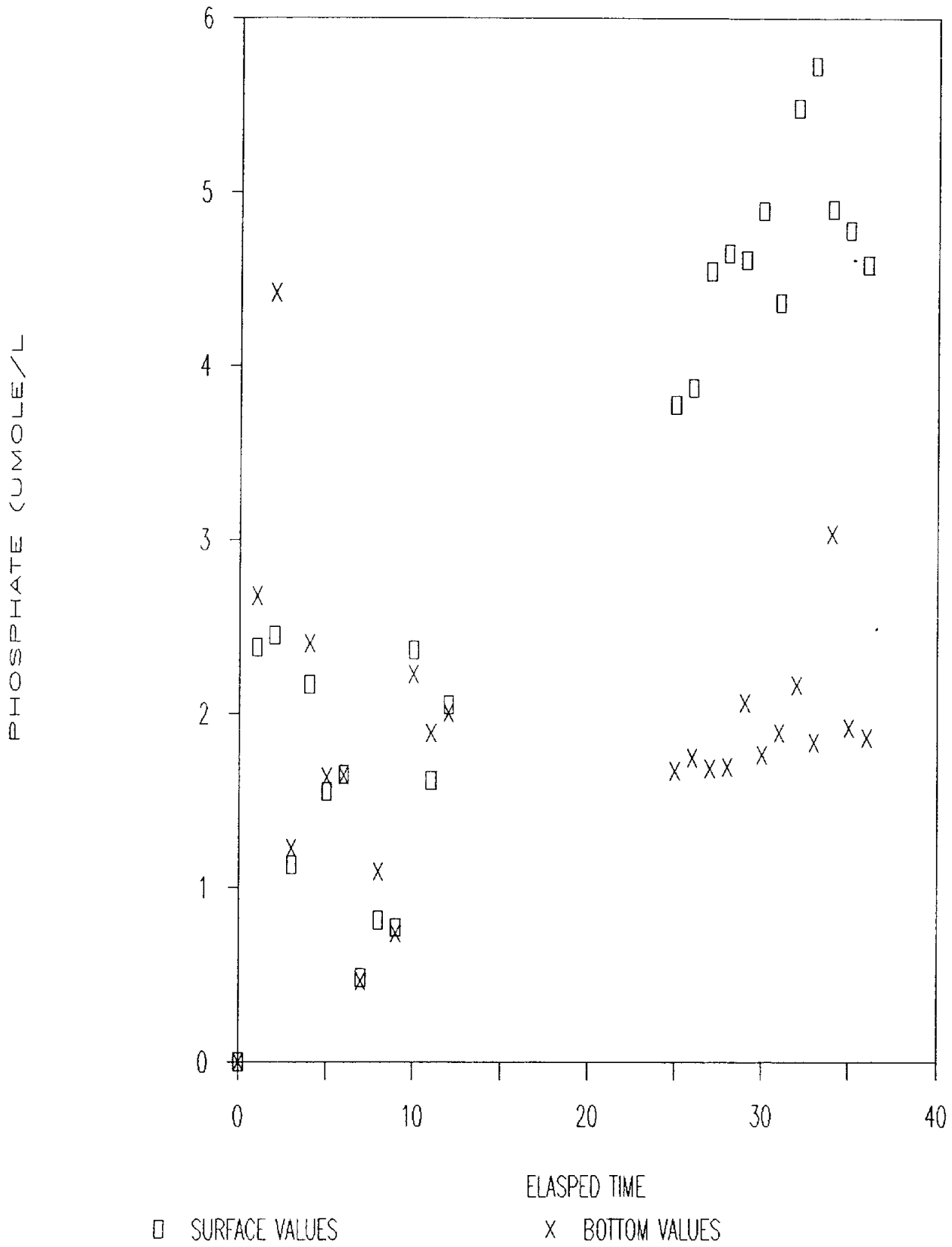
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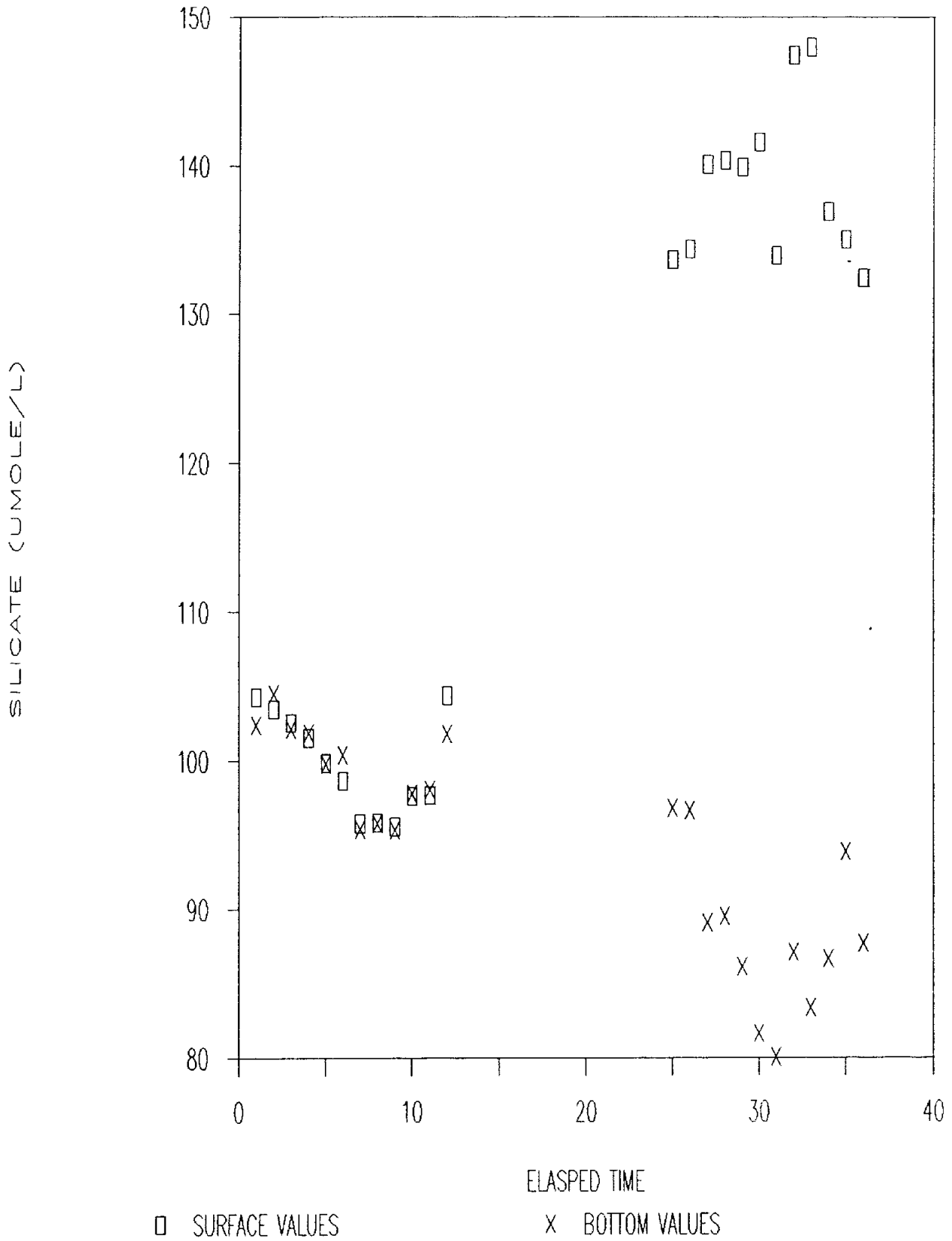
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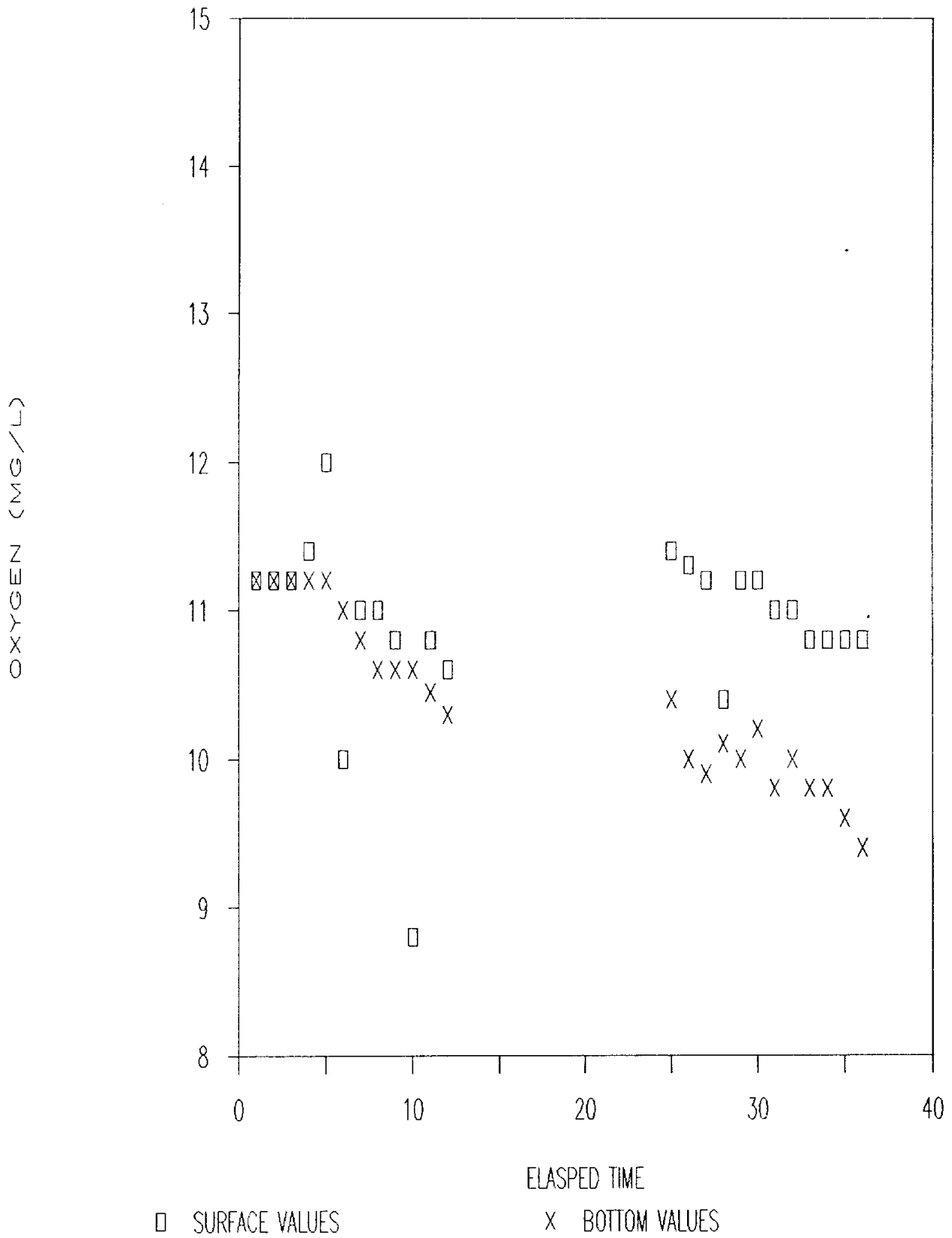
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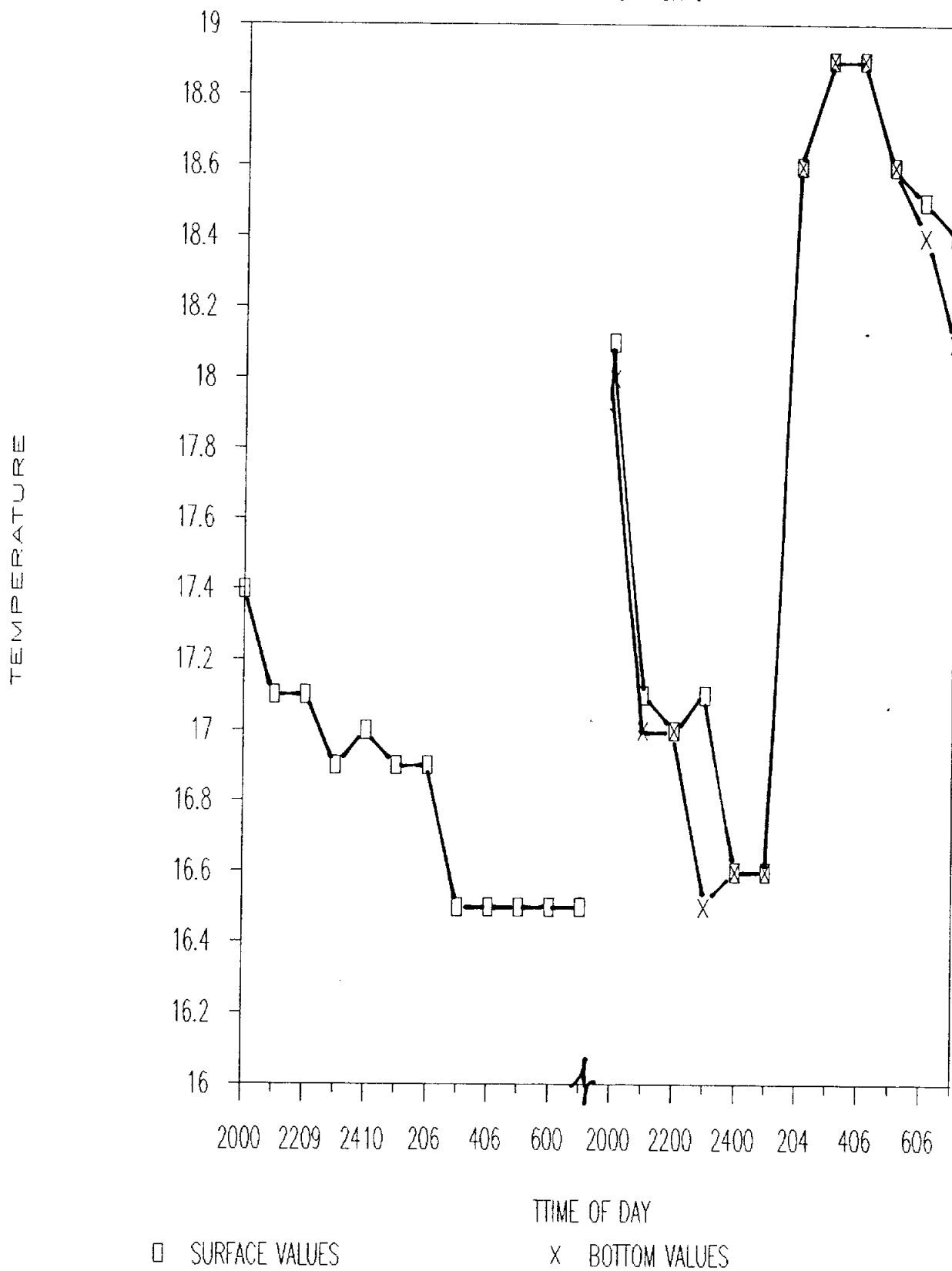
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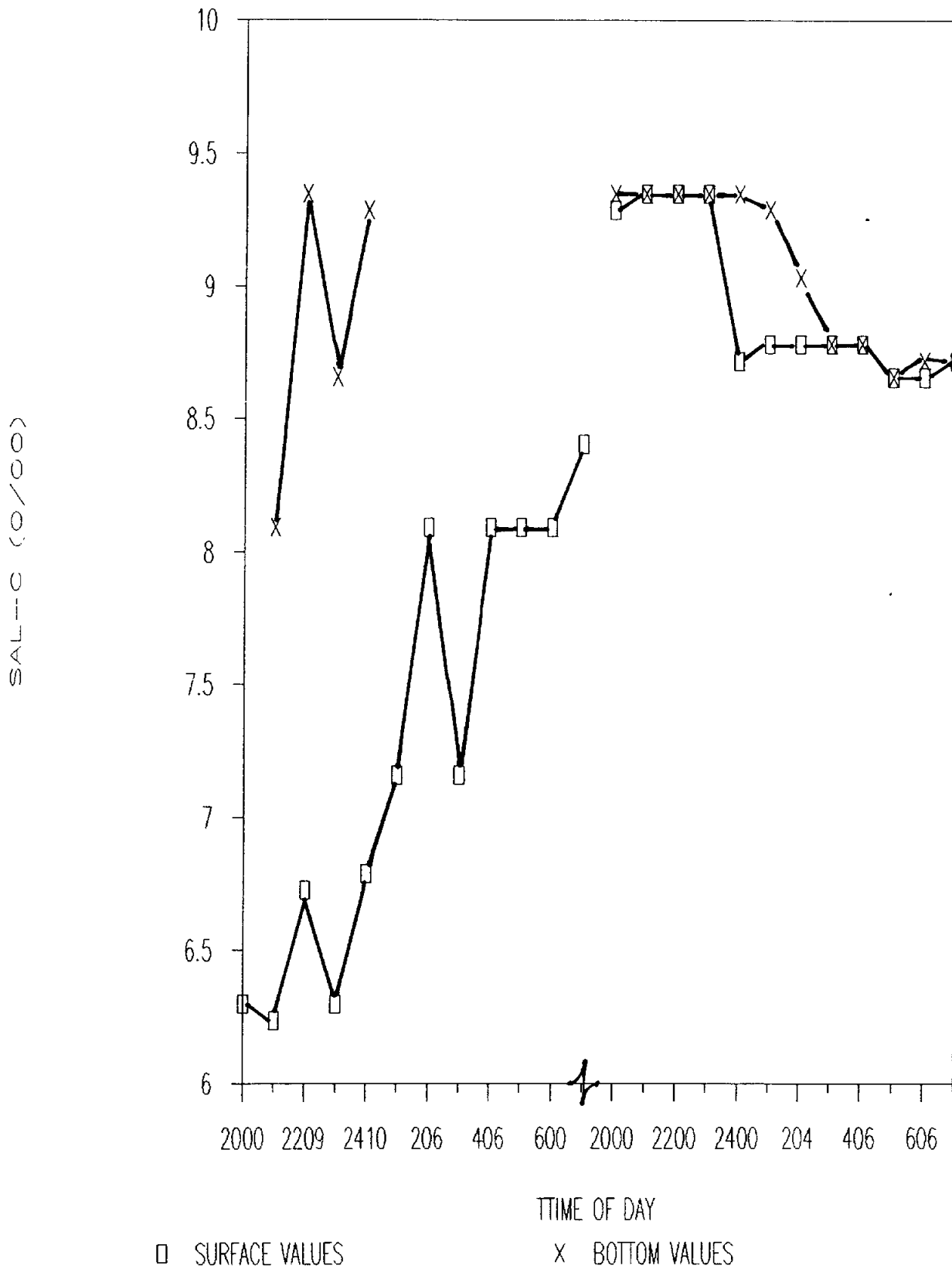
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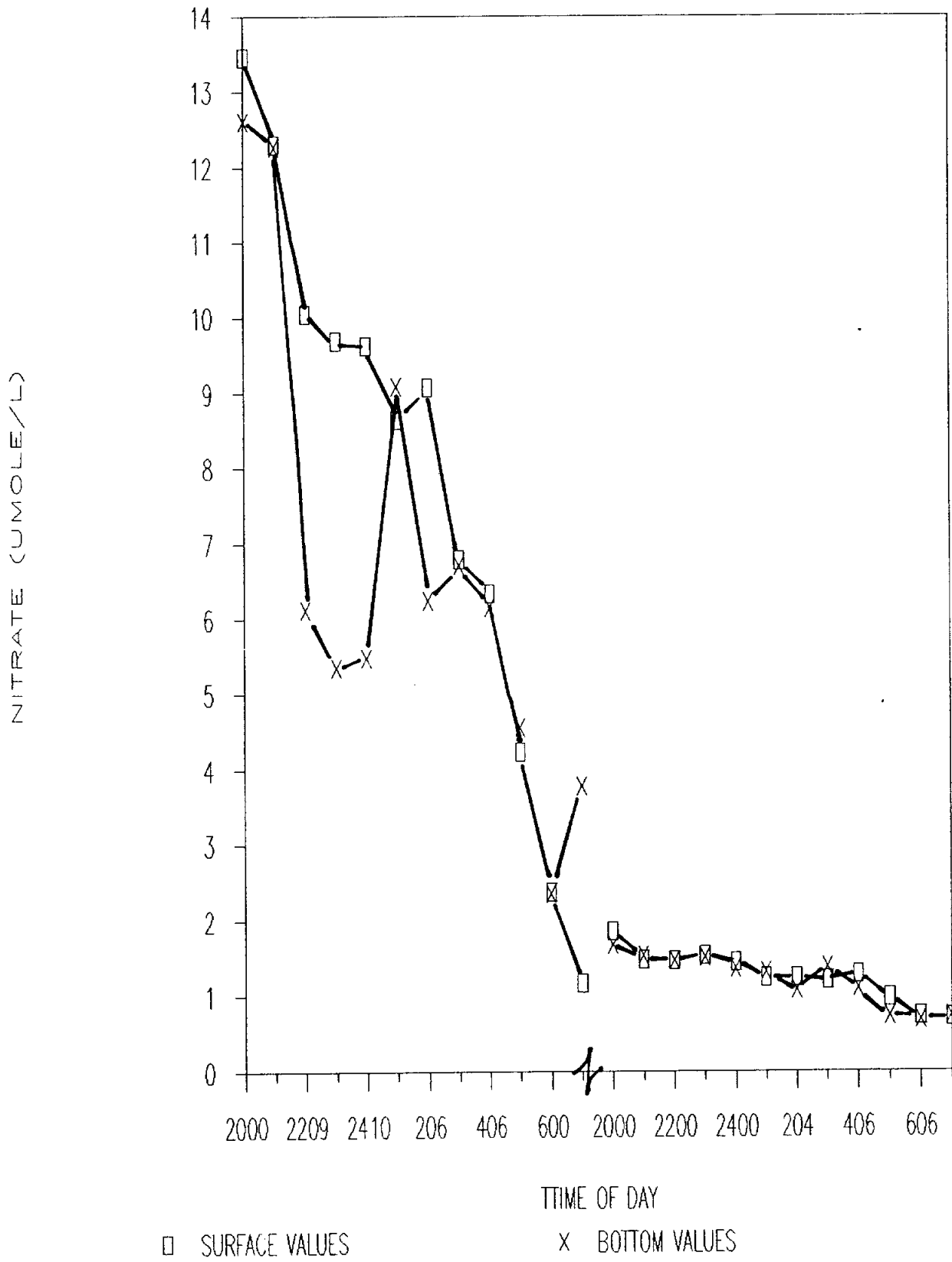
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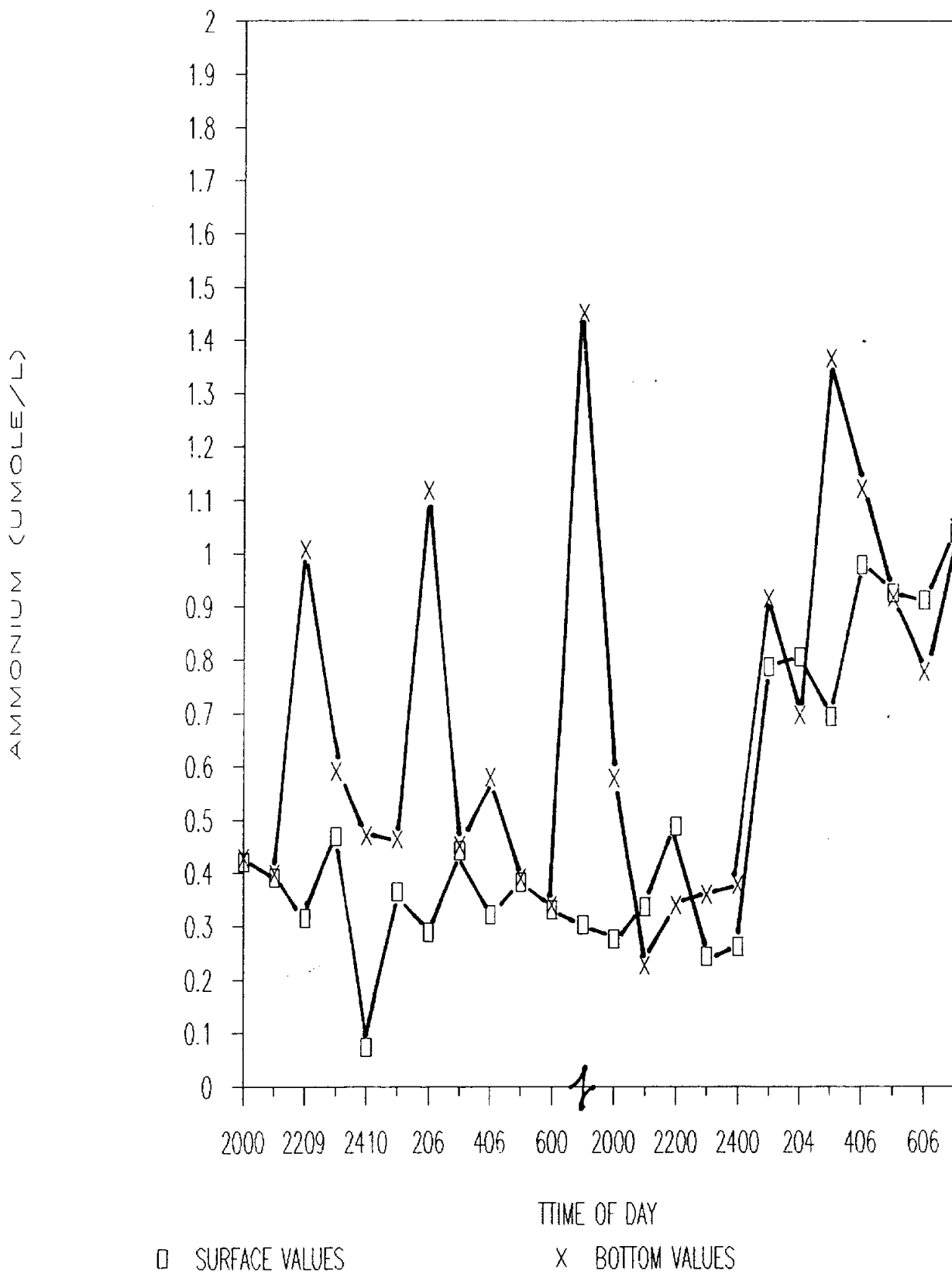
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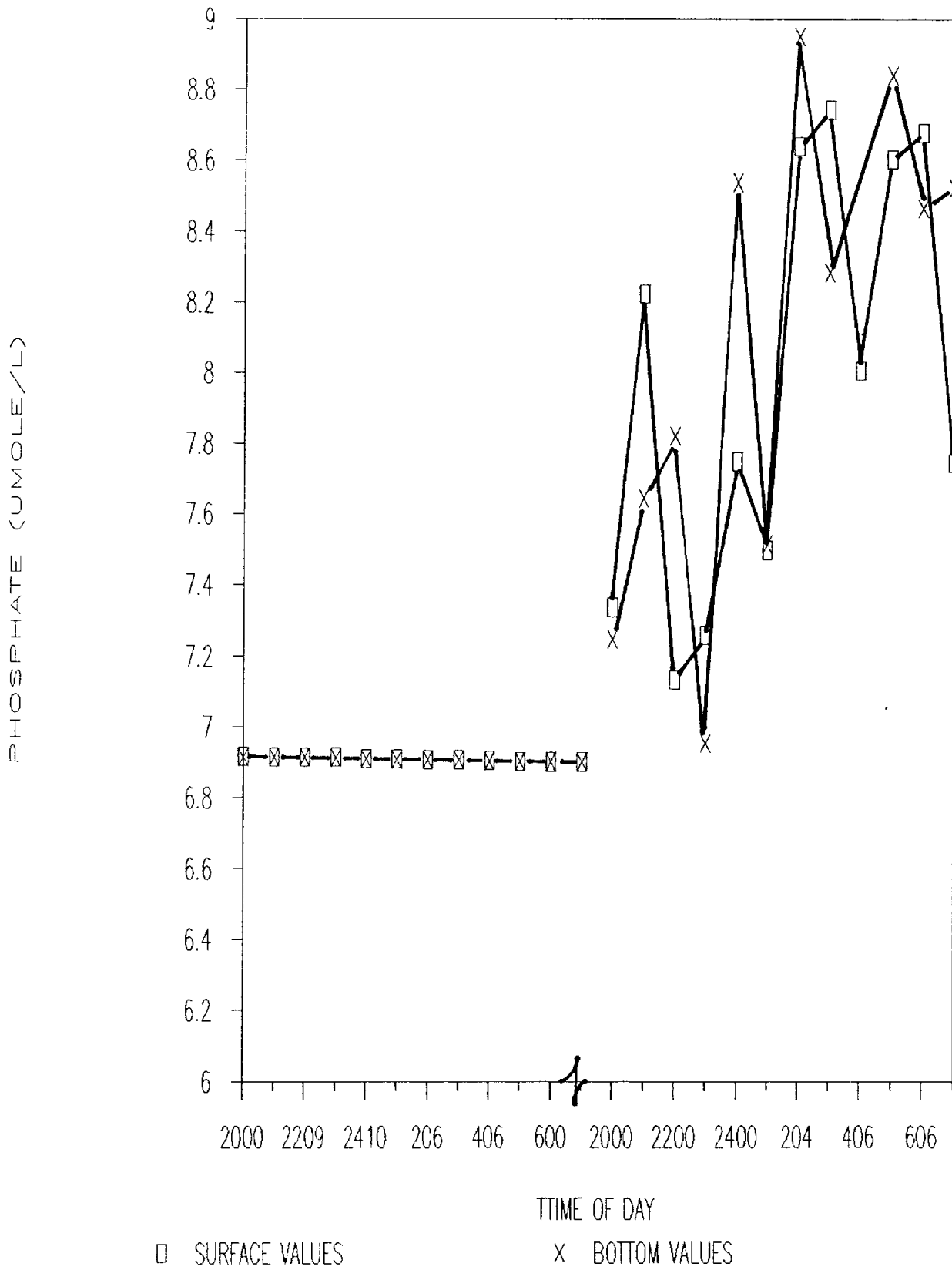
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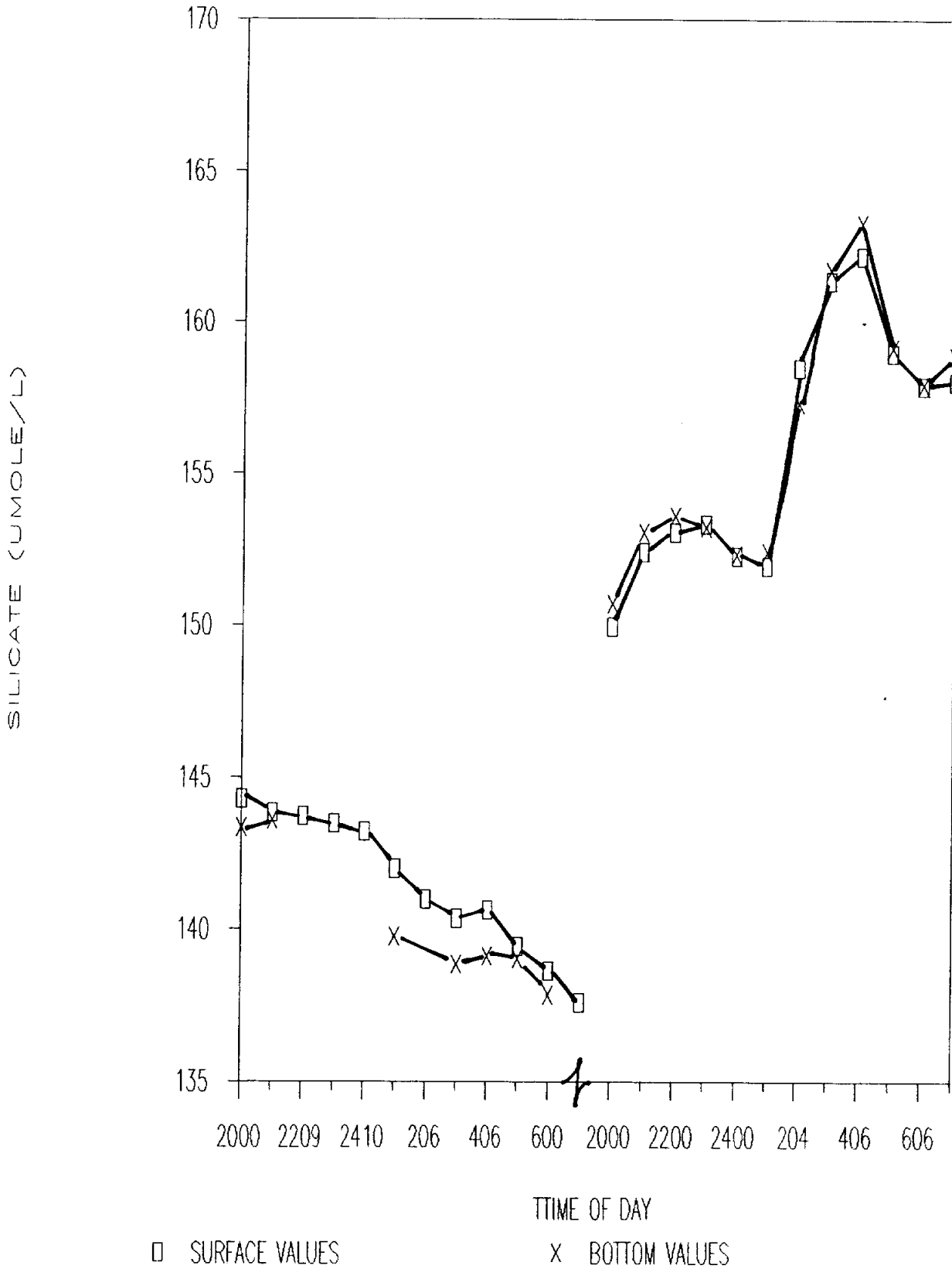
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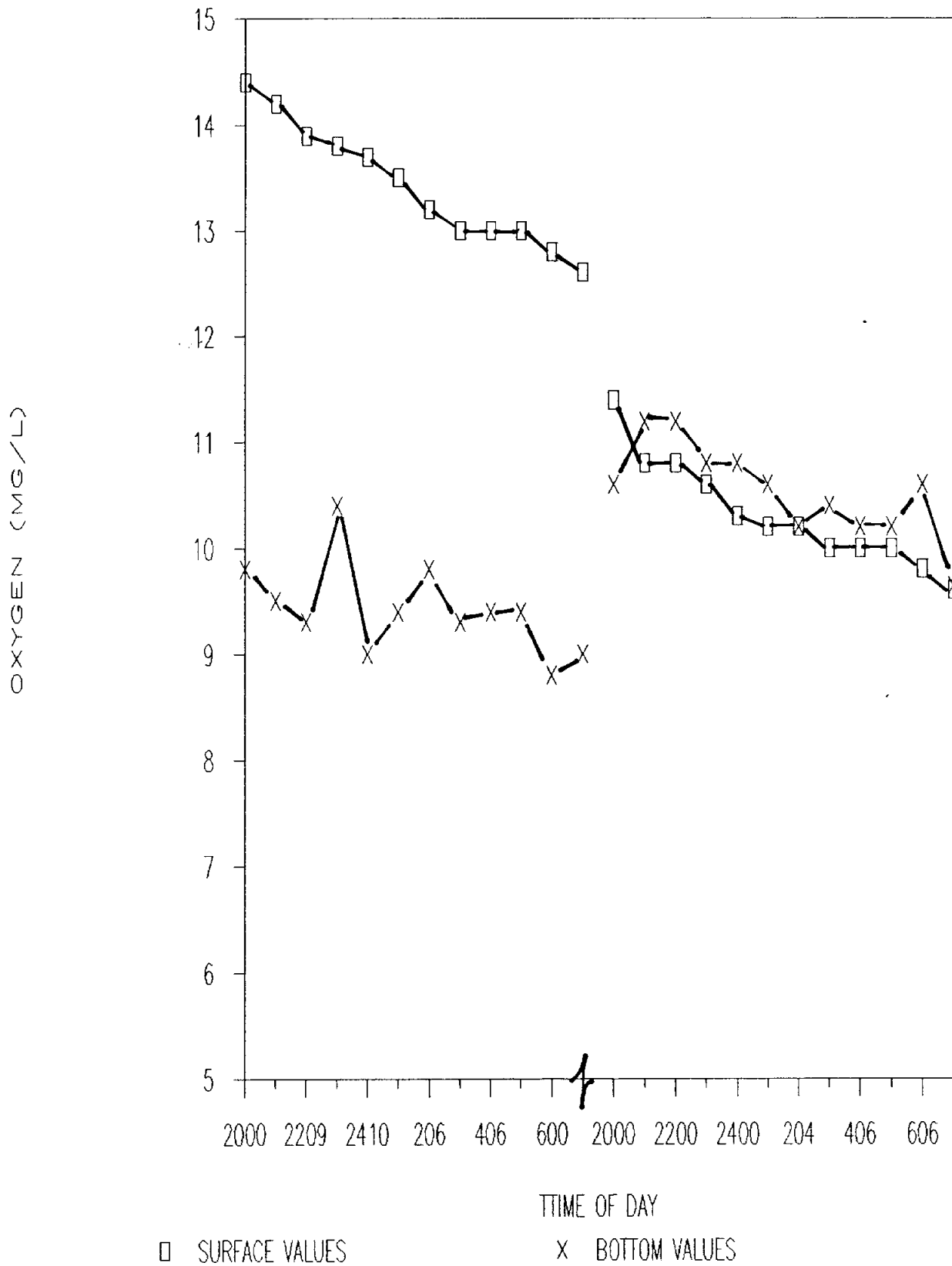
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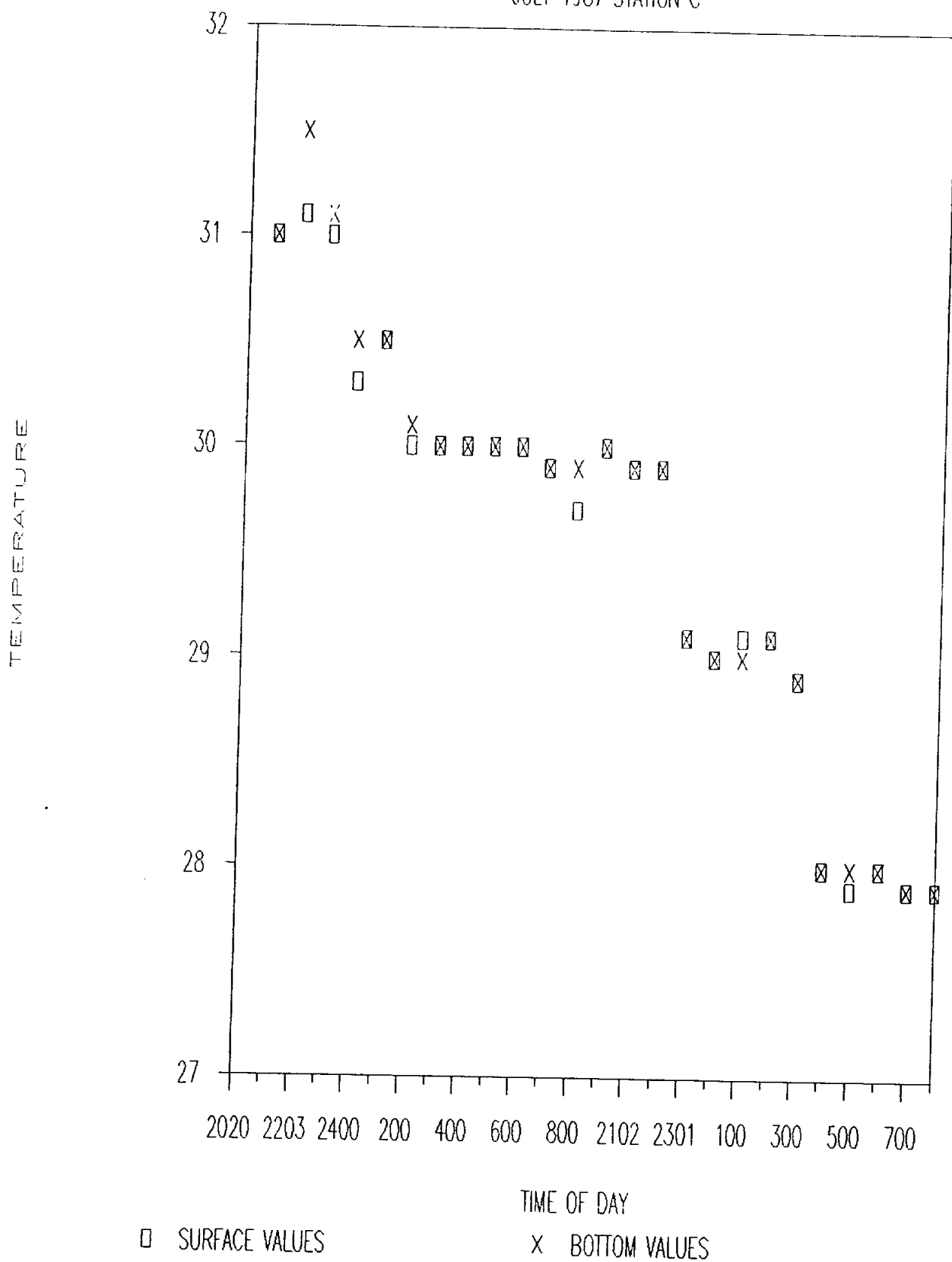
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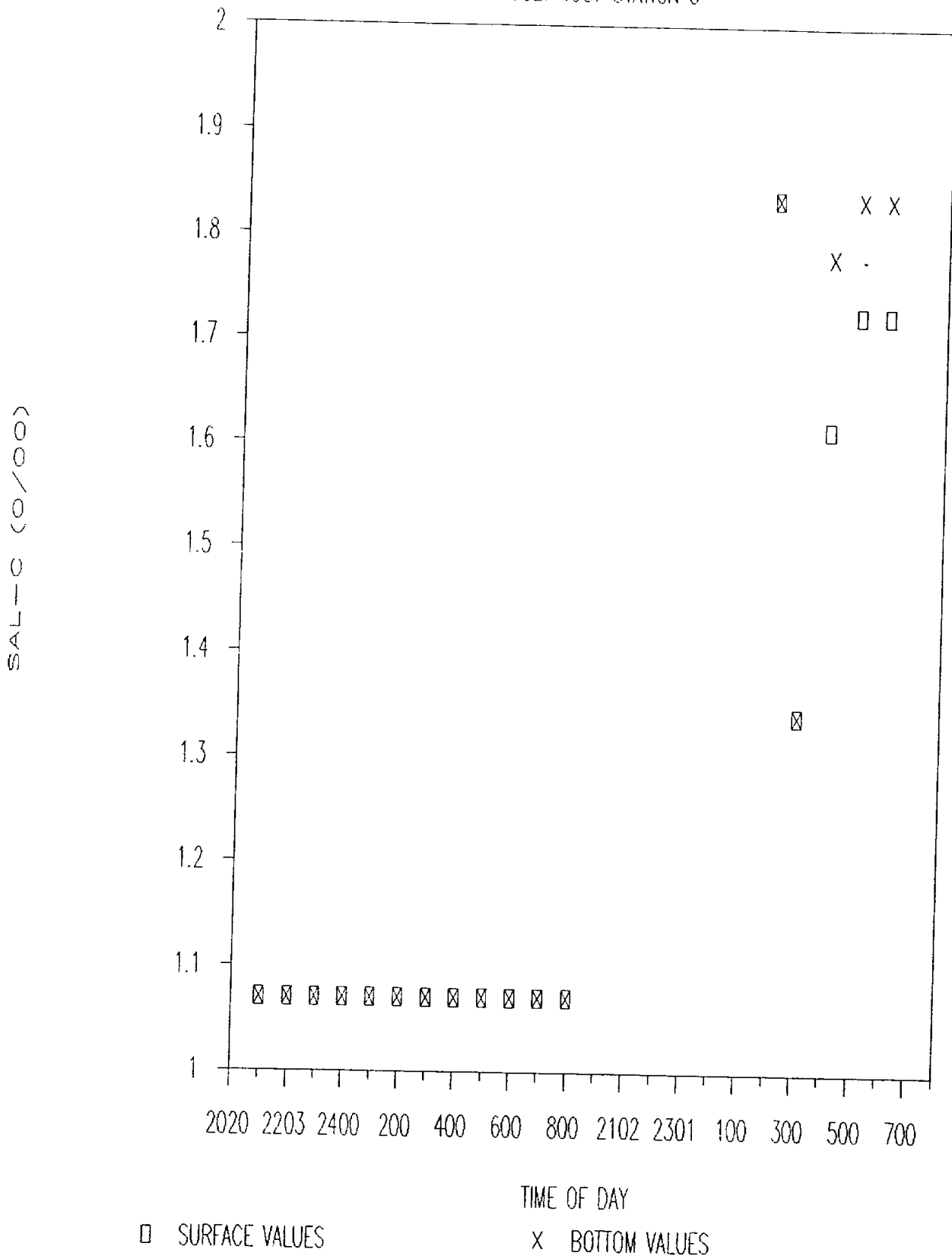
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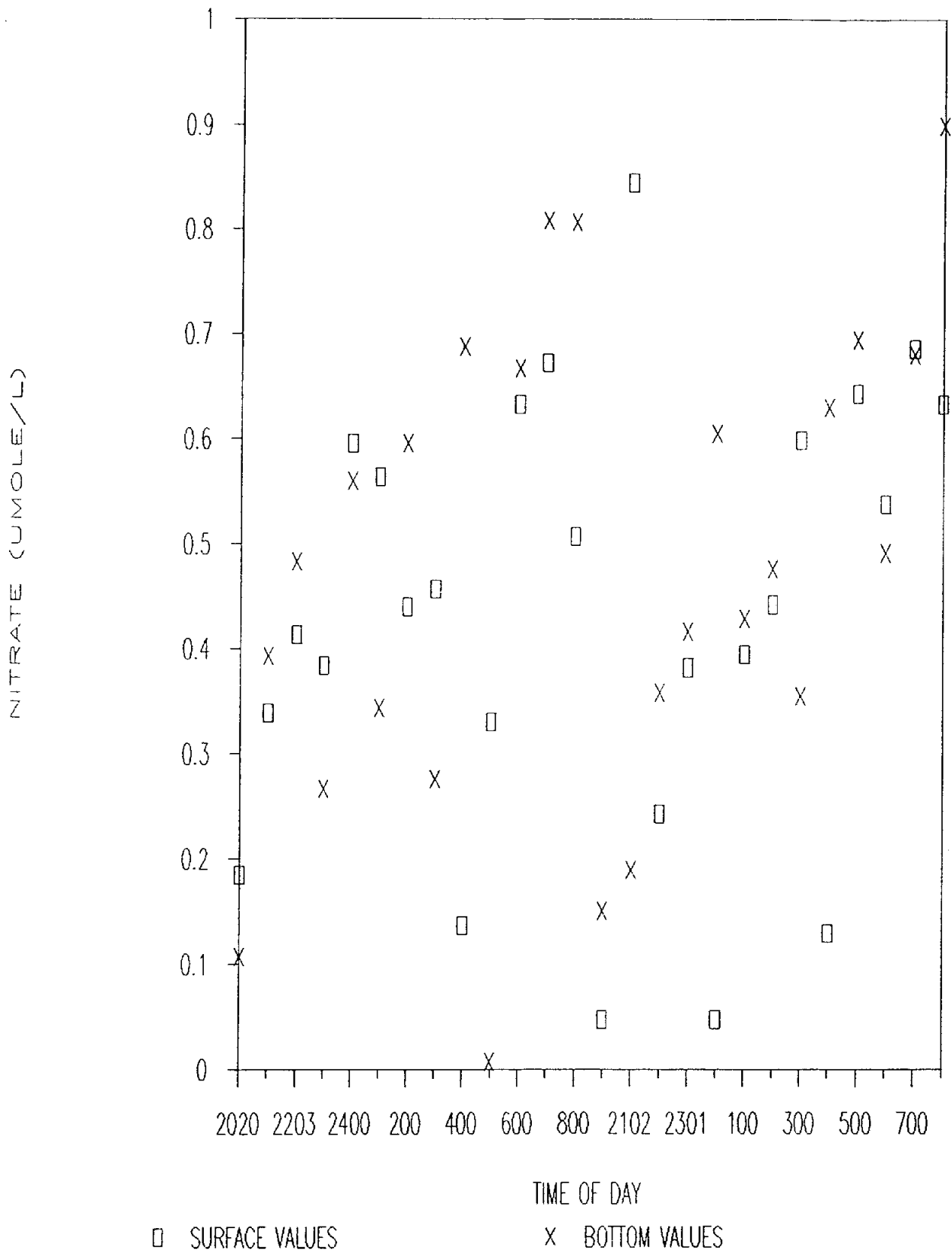
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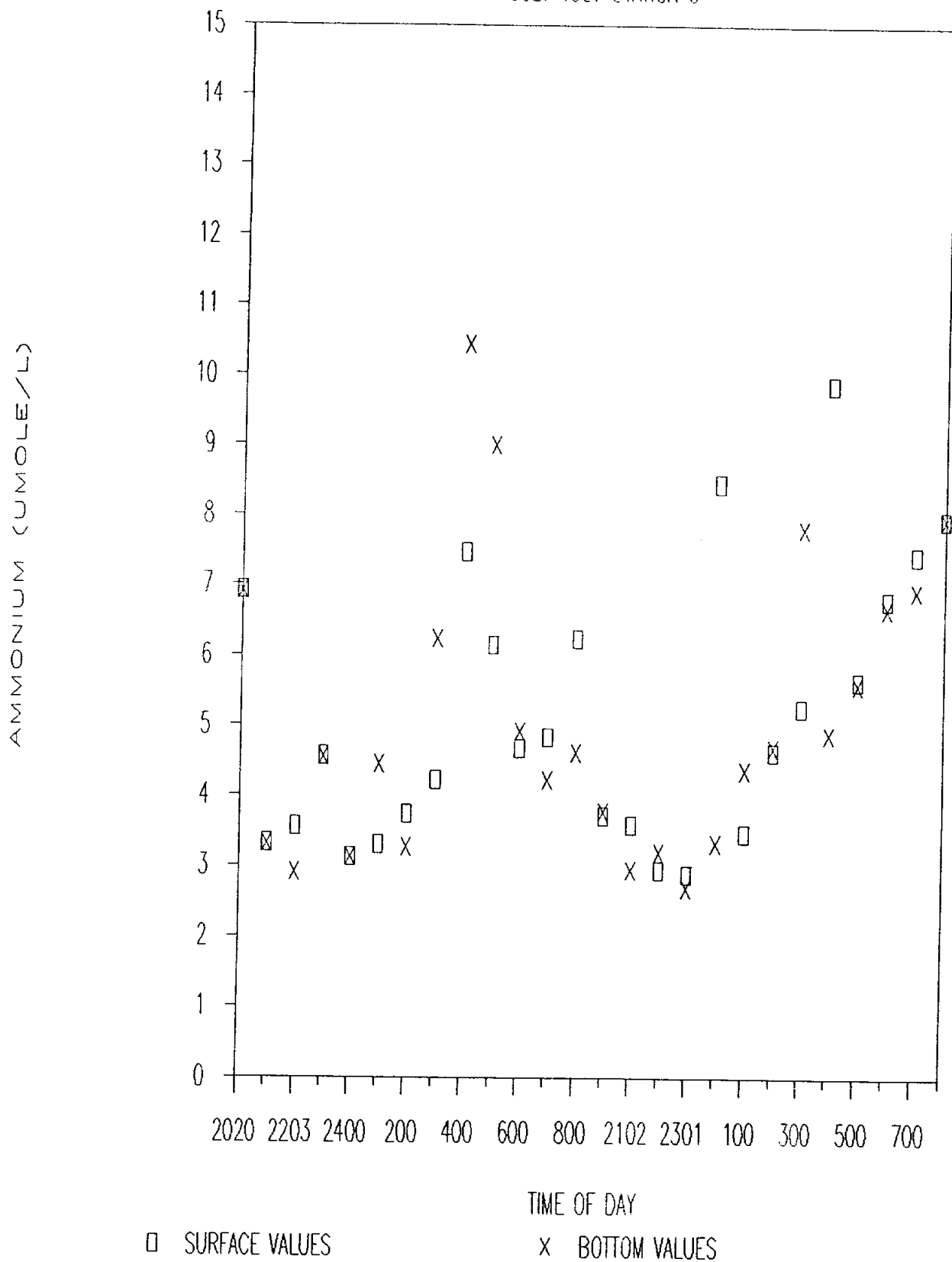
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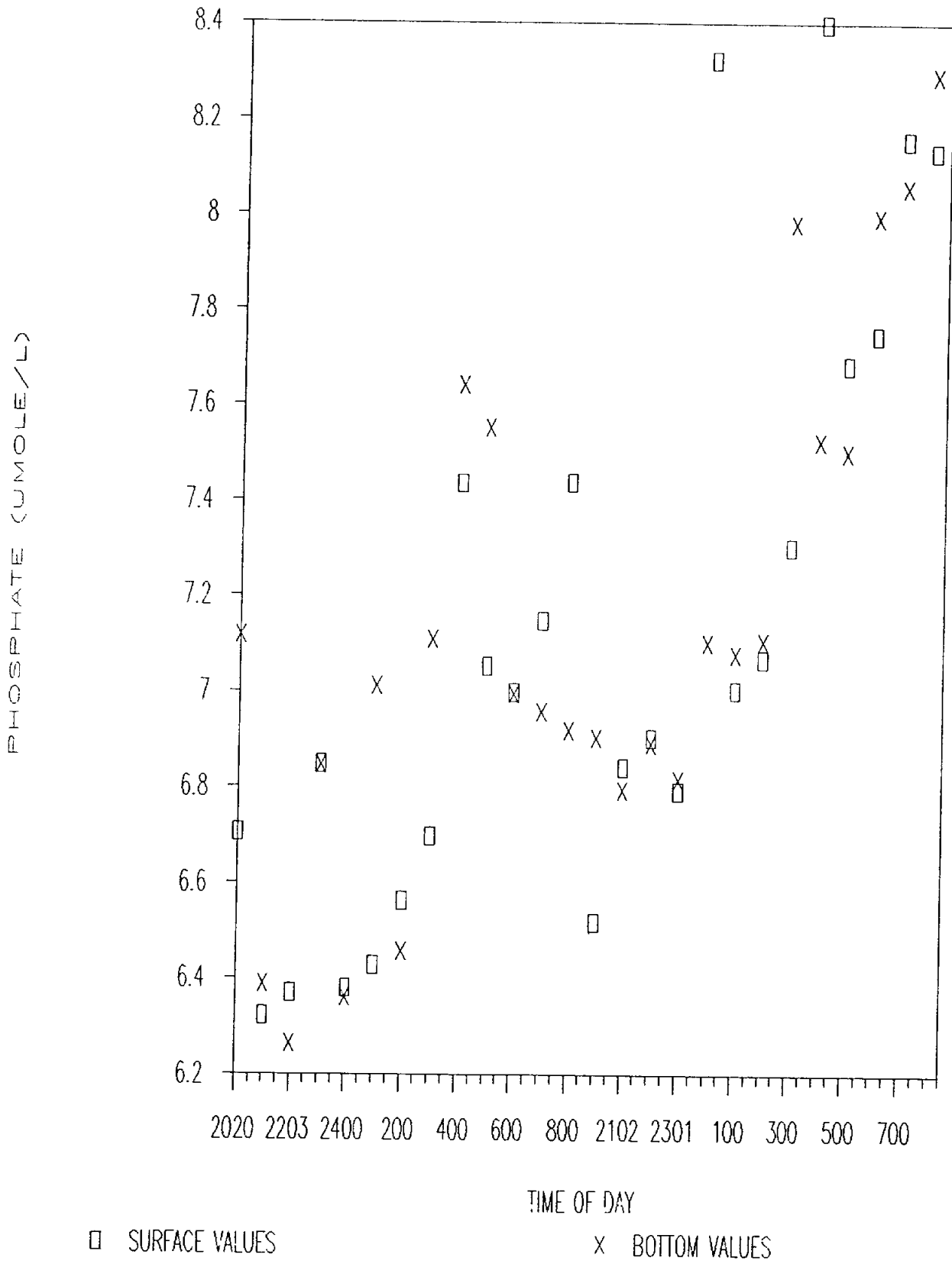
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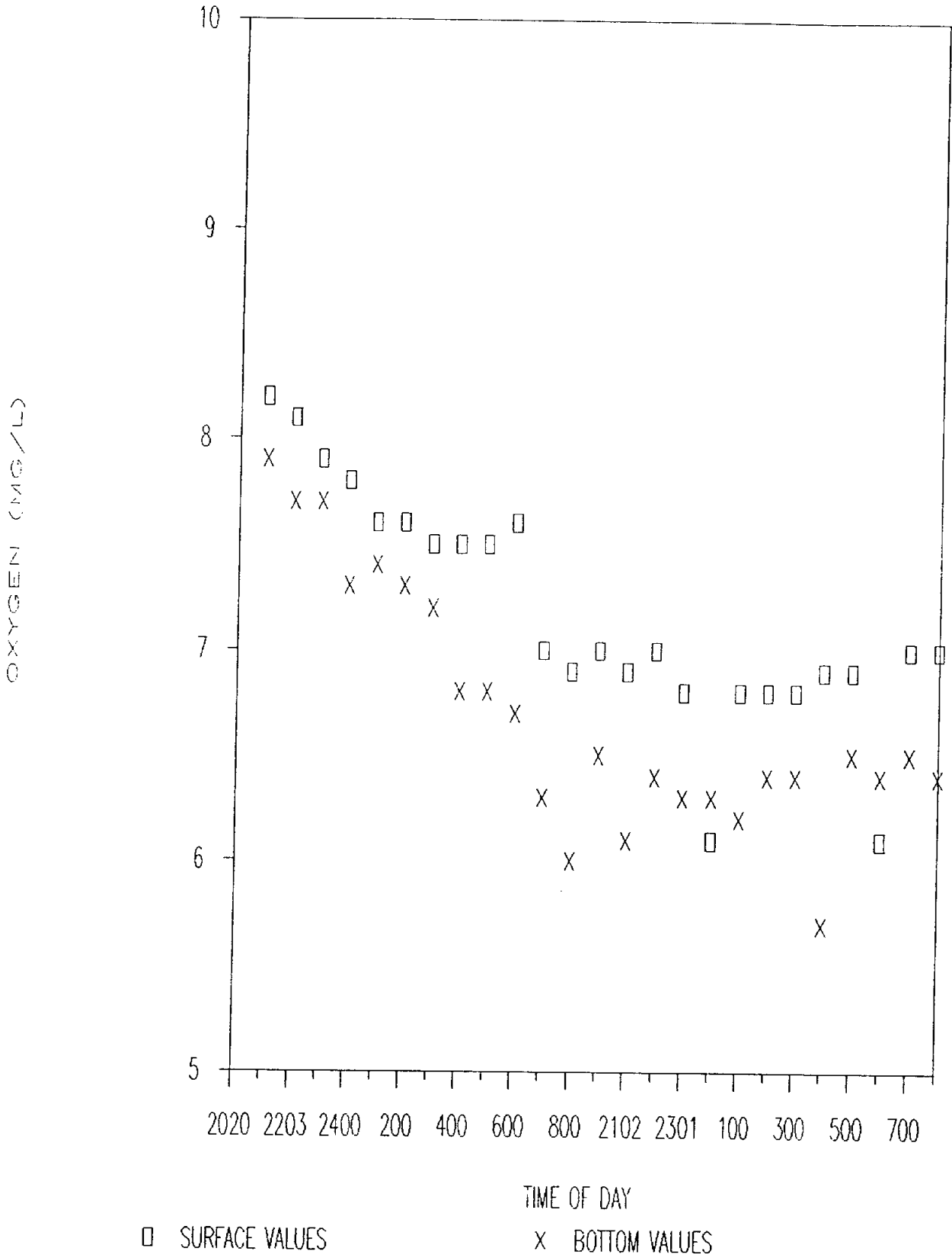
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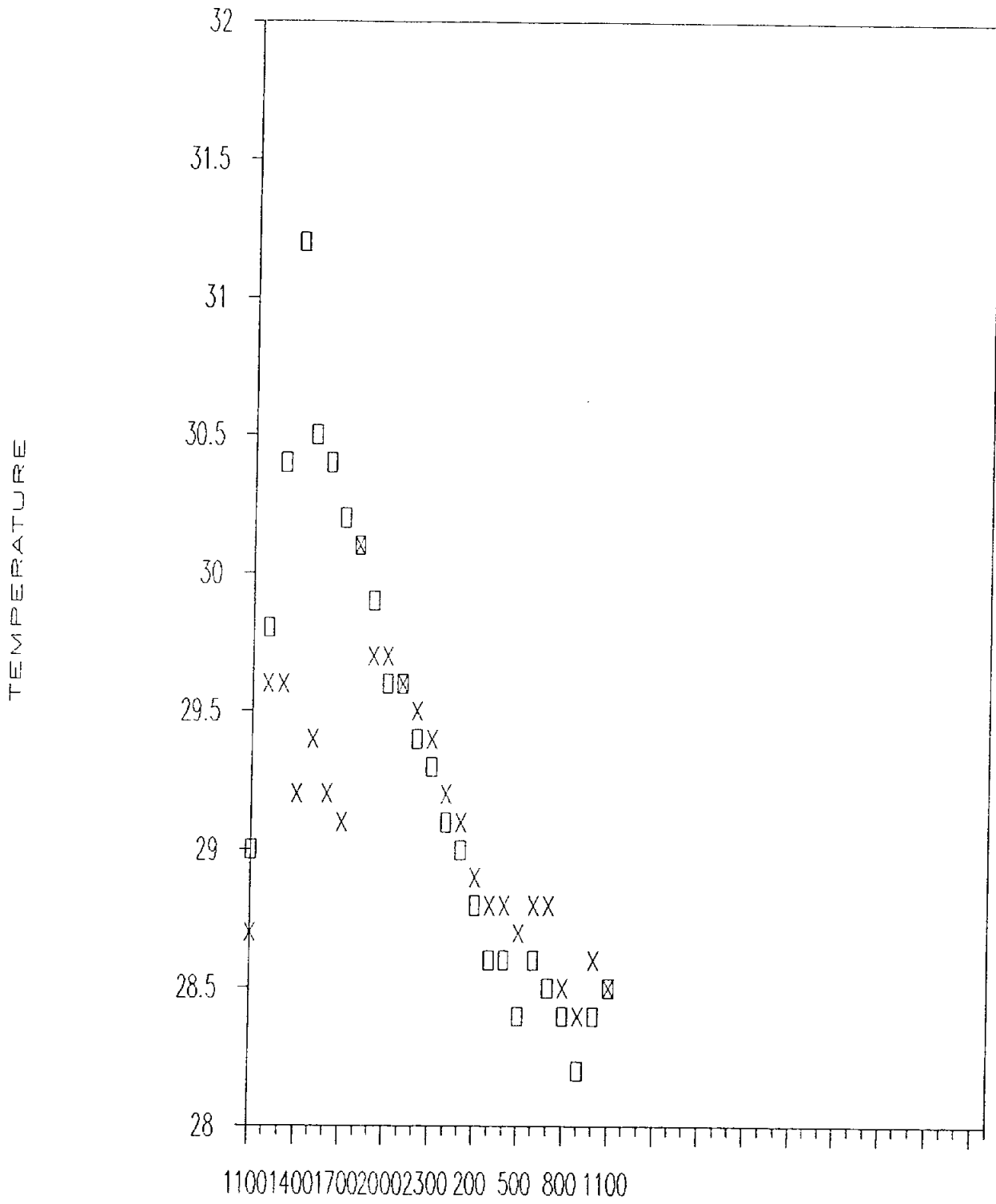
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SAN ANTONIO BAY

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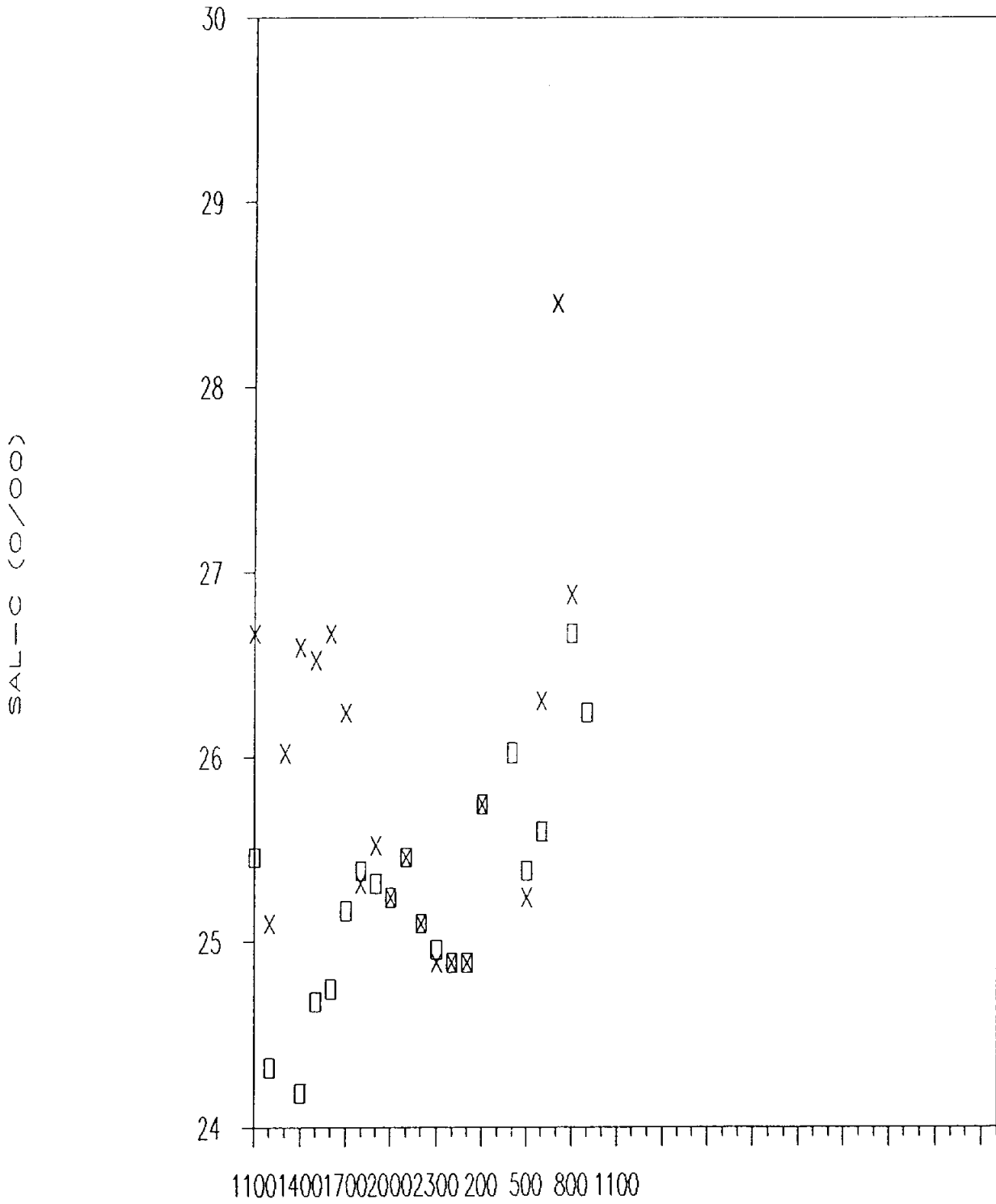


□ SURFACE VALUES

TIME OF DAY
X BOTTOM VALUES

SAN ANTONIO BAY

JULY 1988 STATION C

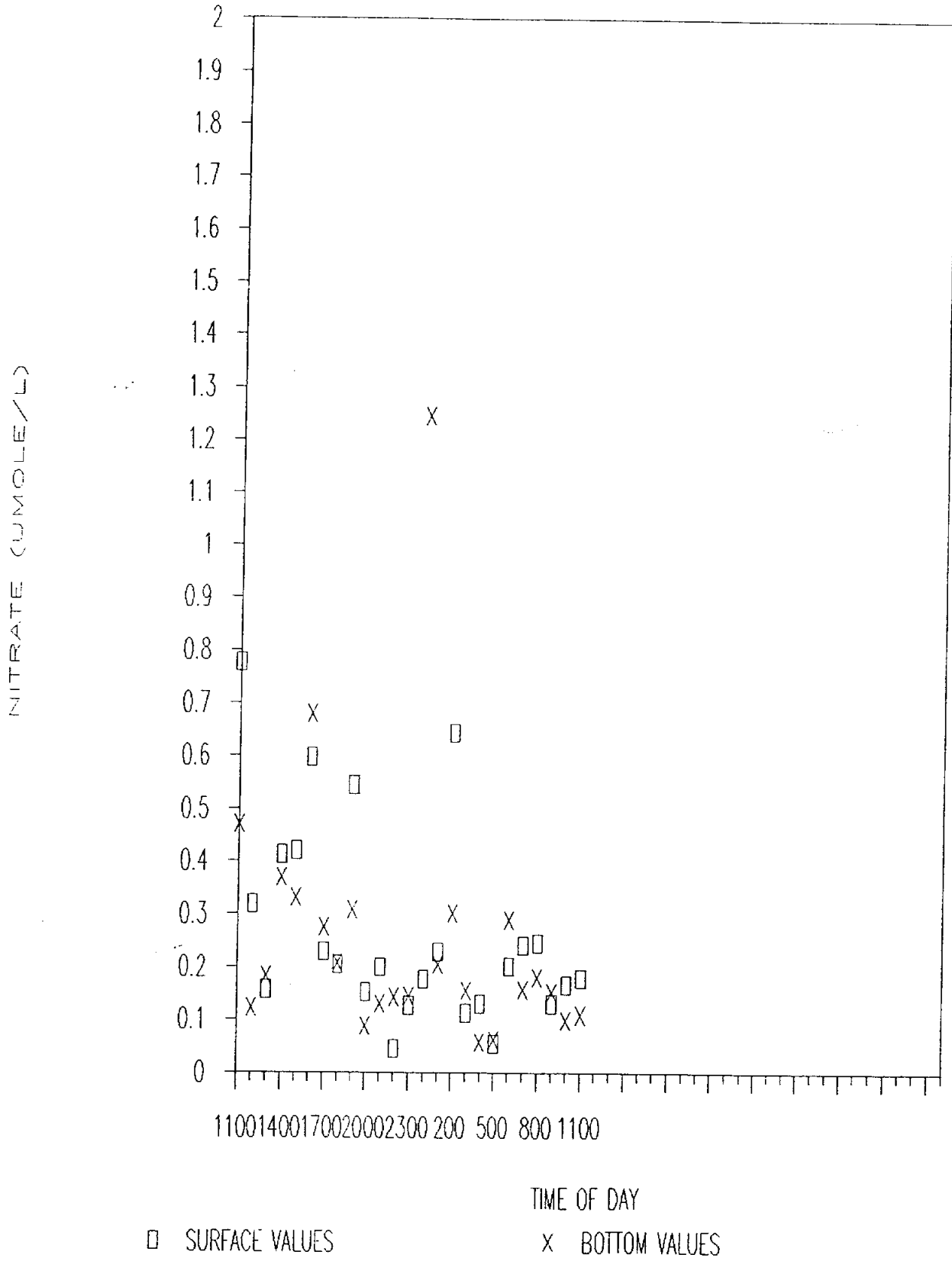


□ SURFACE VALUES

X BOTTOM VALUES

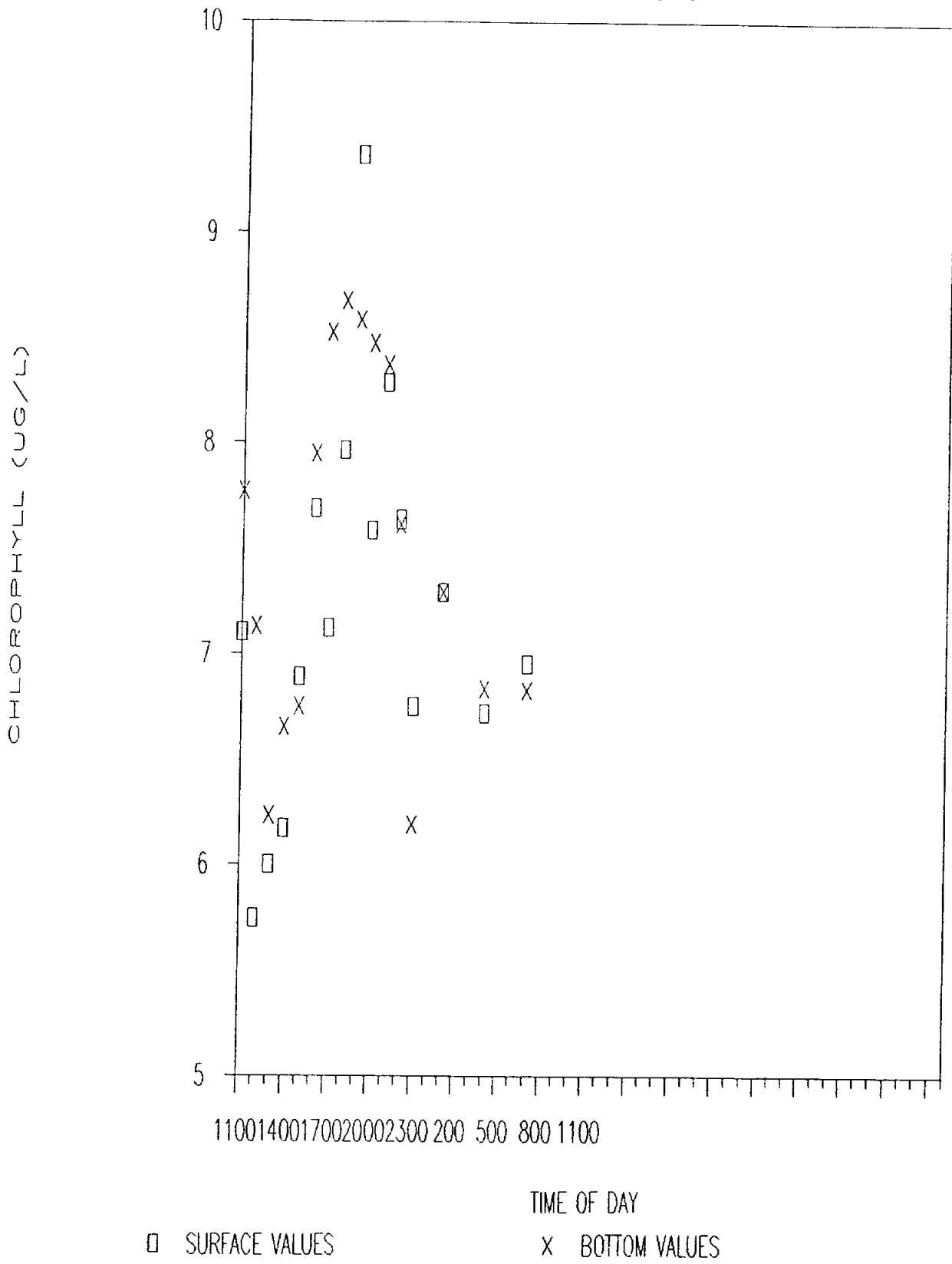
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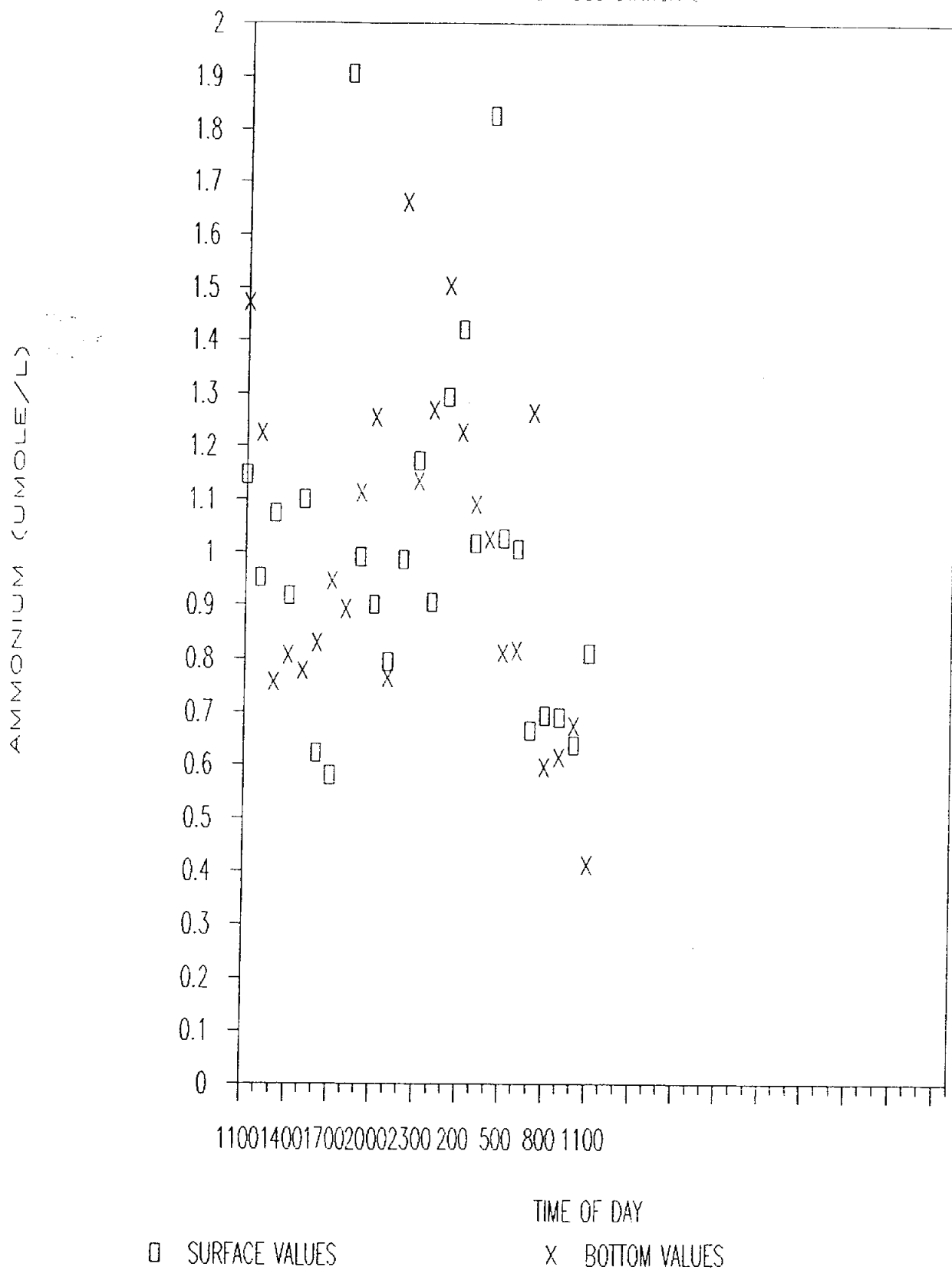
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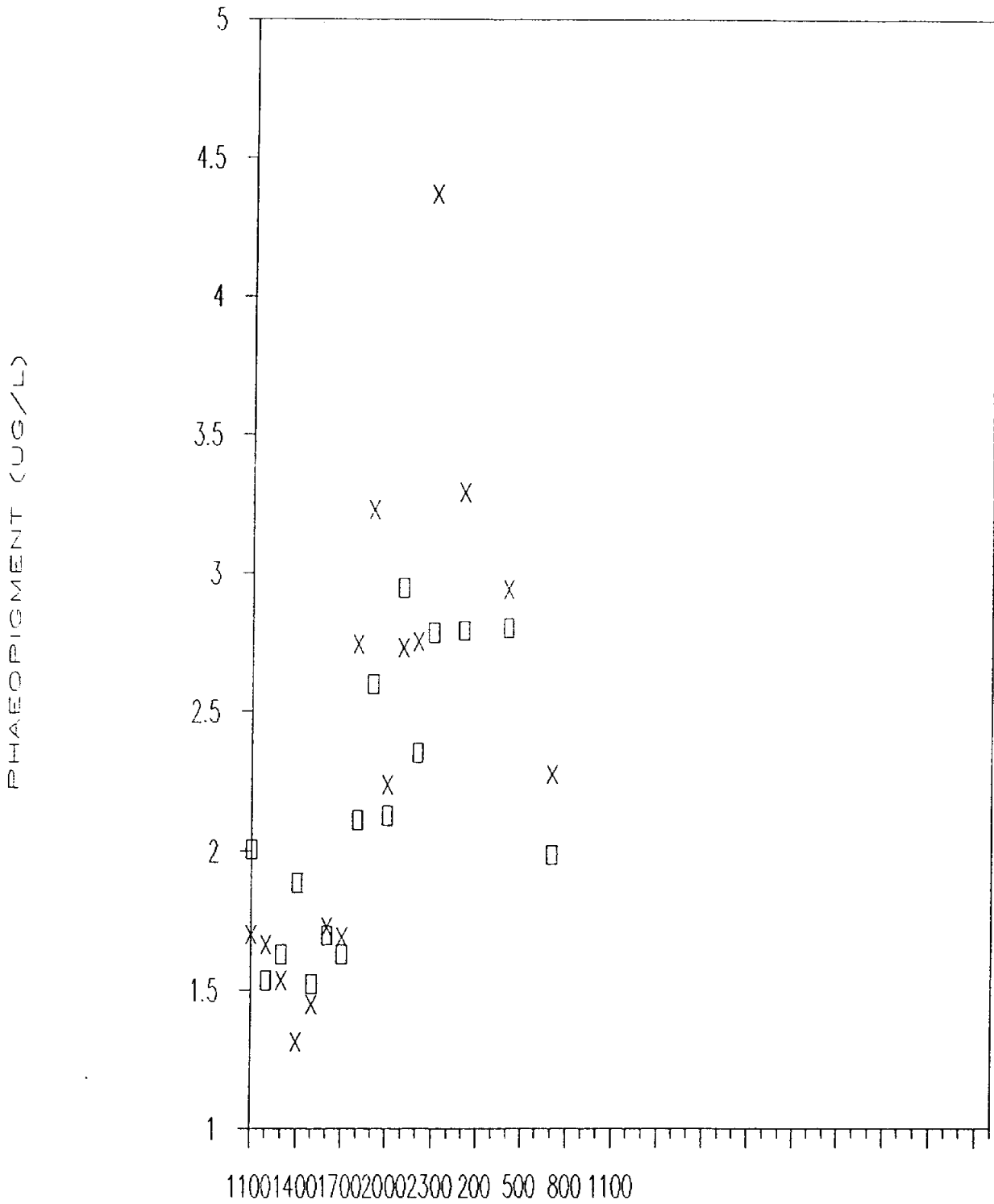
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JULY 1988 STATION C



SAN ANTONIO BAY

JULY 1988 STATION C



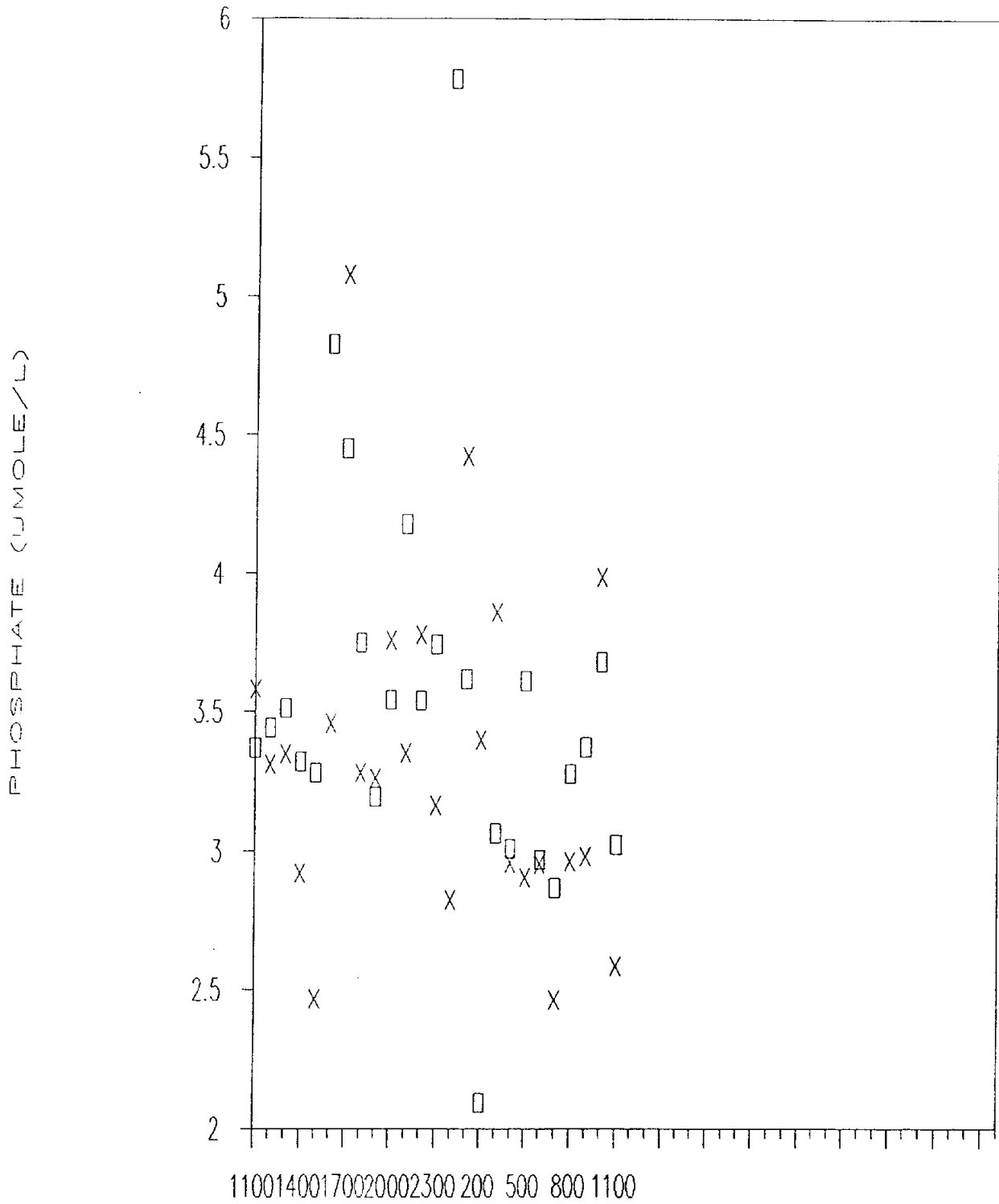
□ SURFACE VALUES

TIME OF DAY

X BOTTOM VALUES

SAN ANTONIO BAY

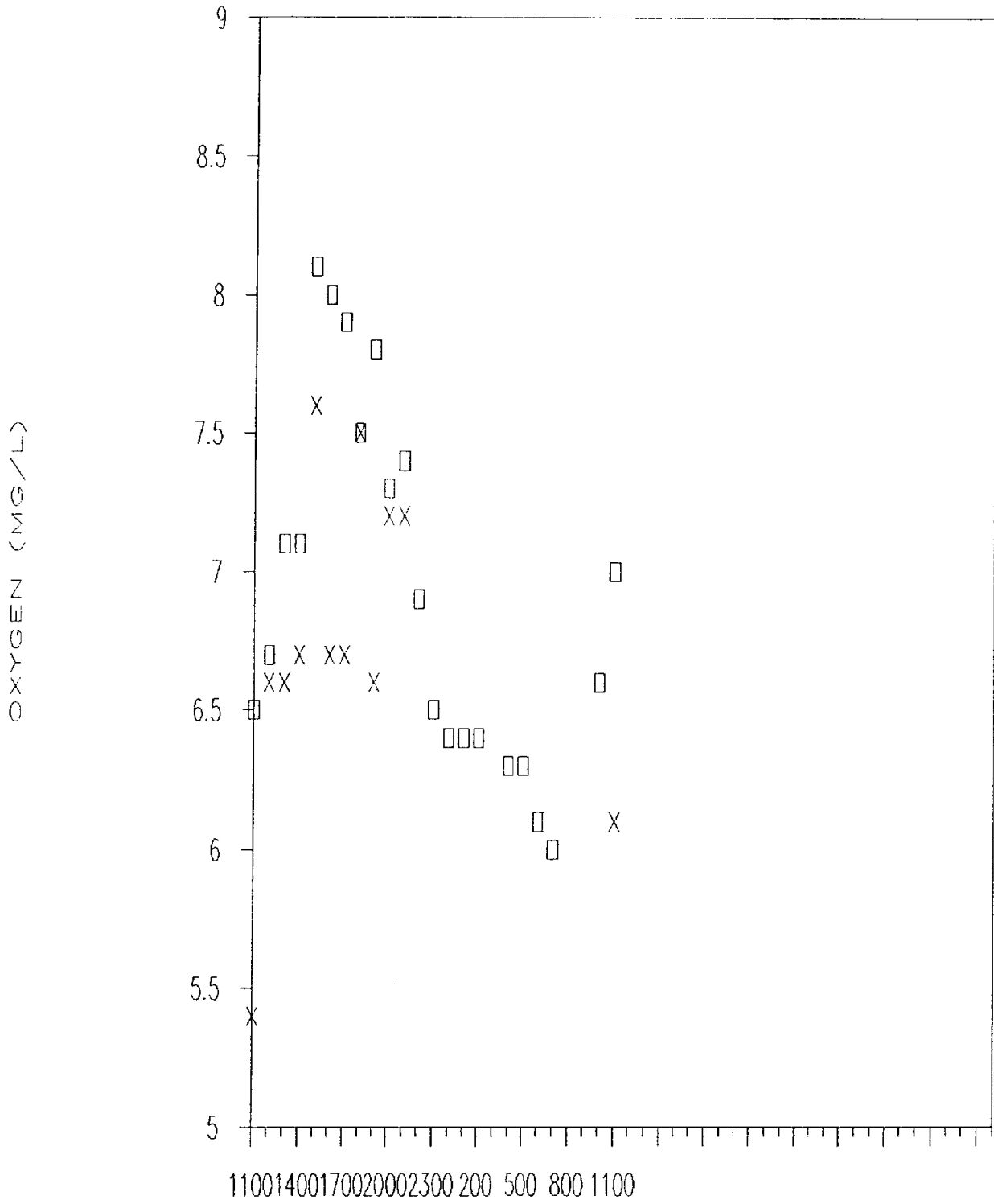
JULY 1988 STATION C



□ SURFACE VALUES
X BOTTOM VALUES

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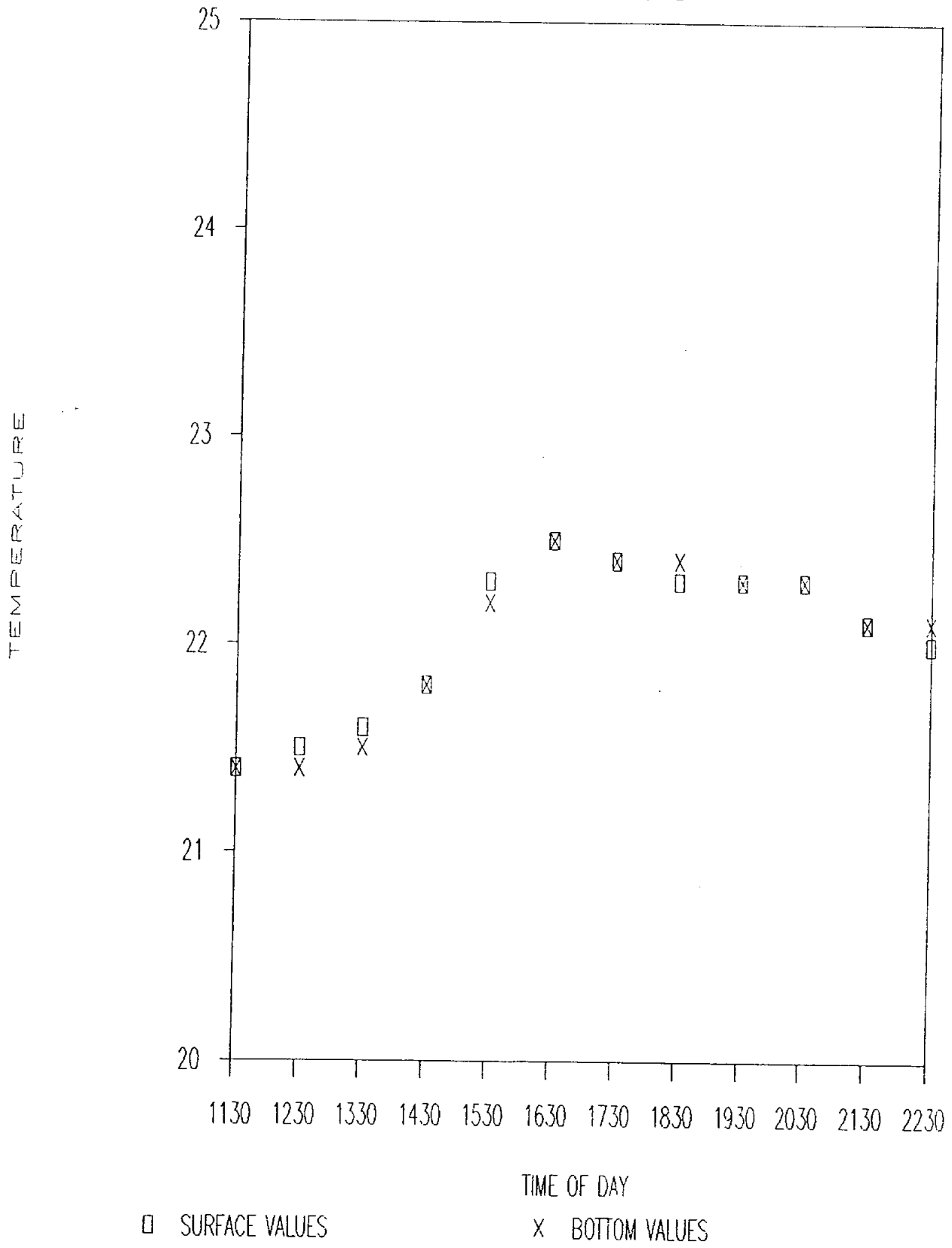
JULY 1988 STATION C



□ SURFACE VALUES
X BOTTOM VALUES

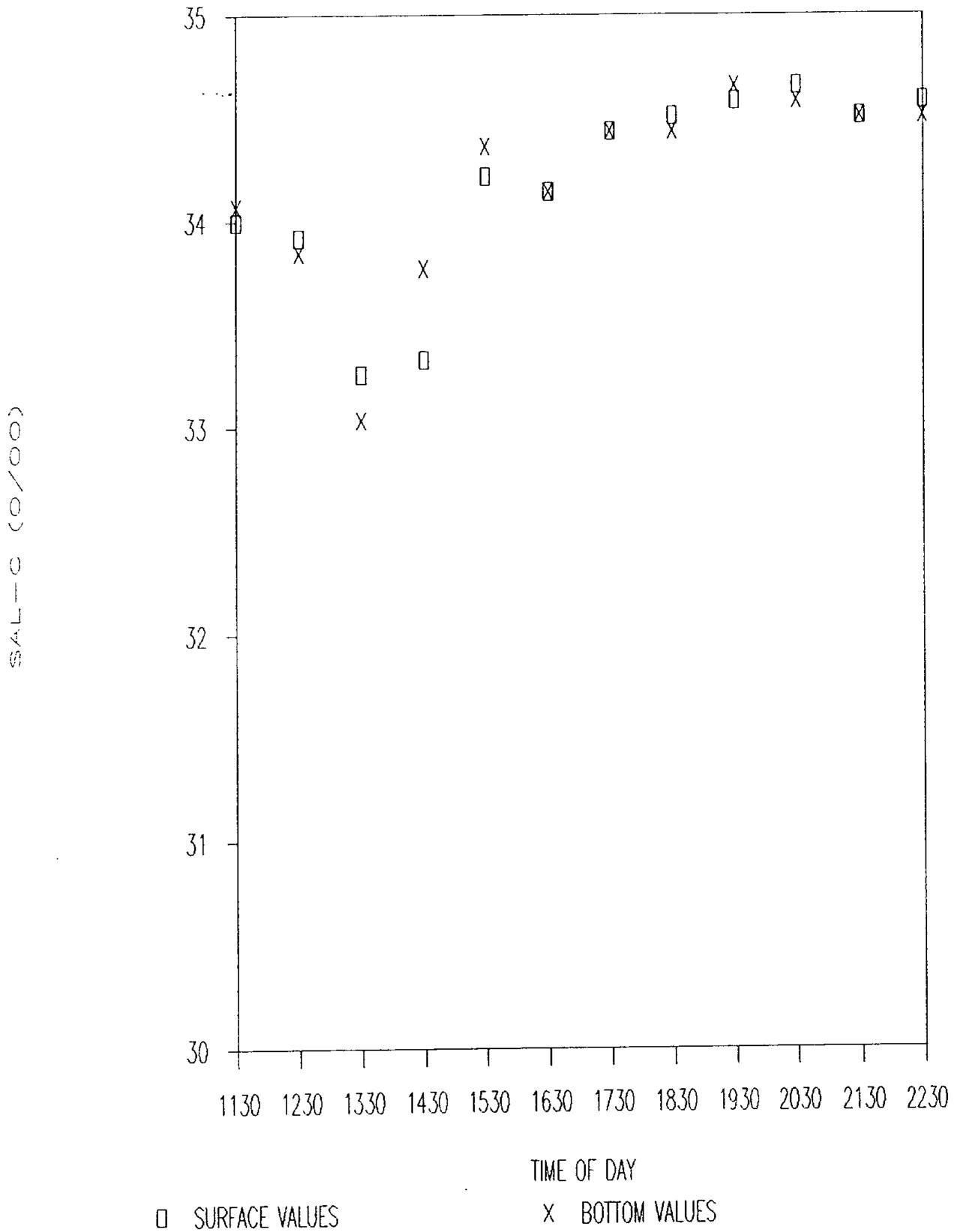
CORPUS CHRISTI/NUECES BAYS

OCT 1987 STATION B



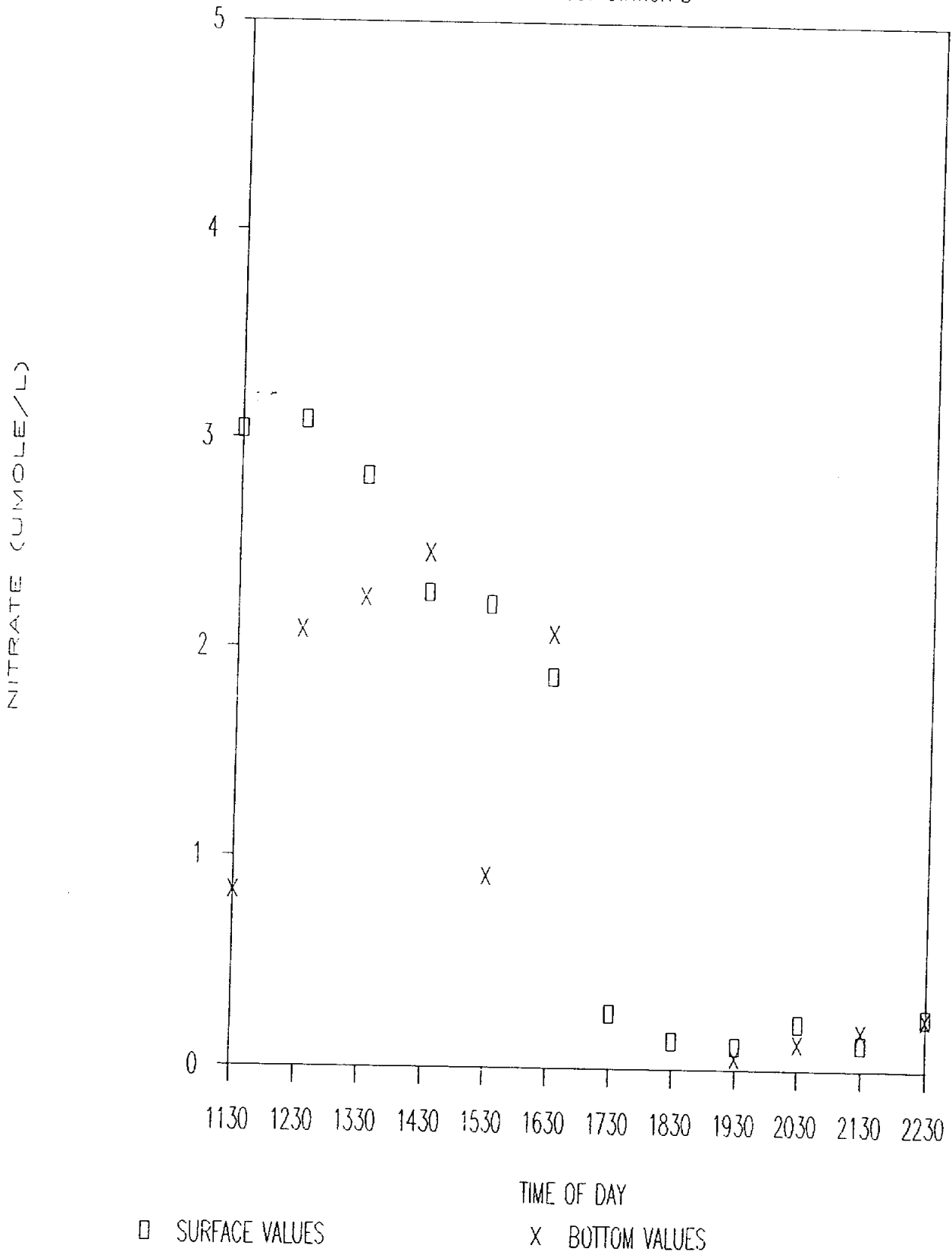
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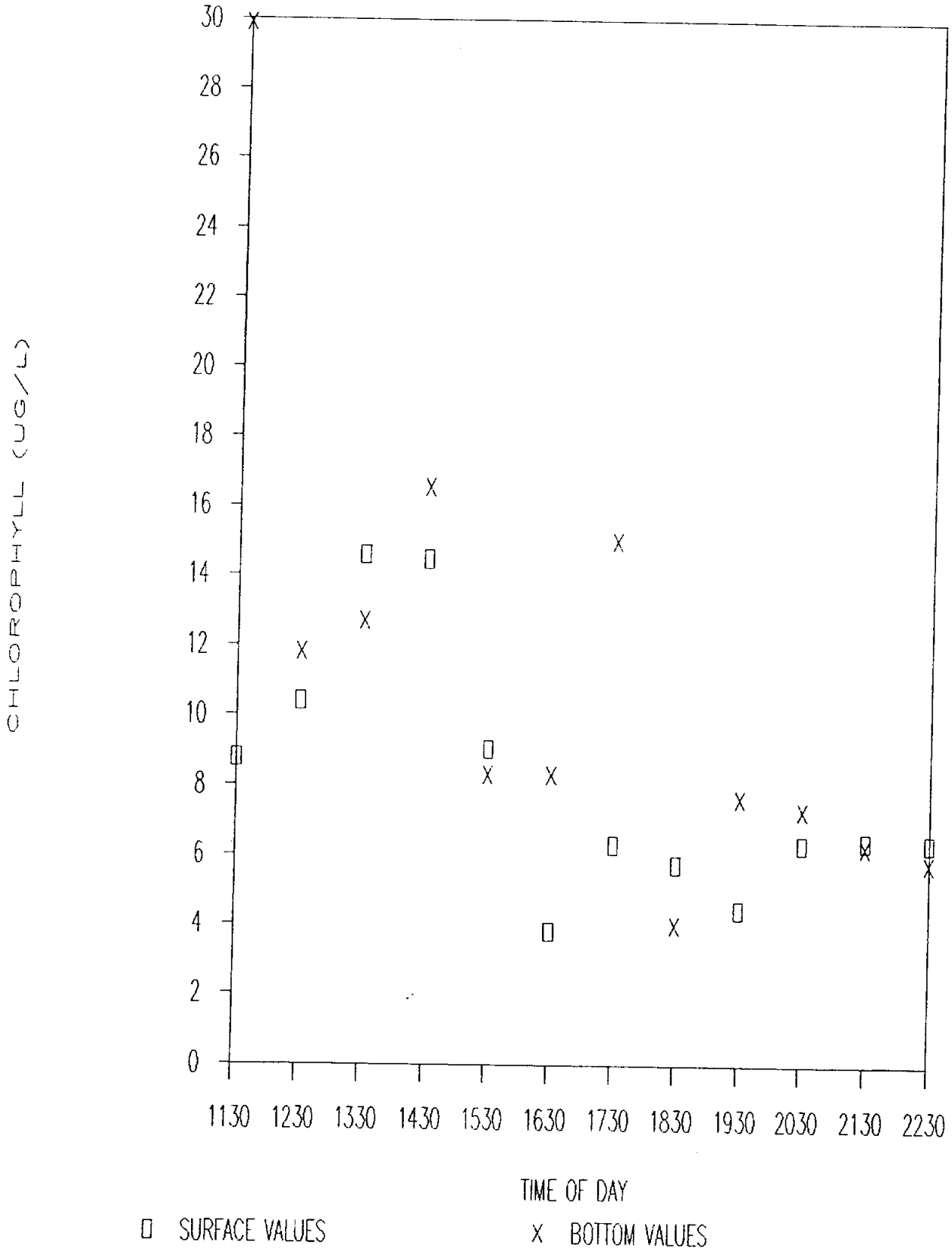
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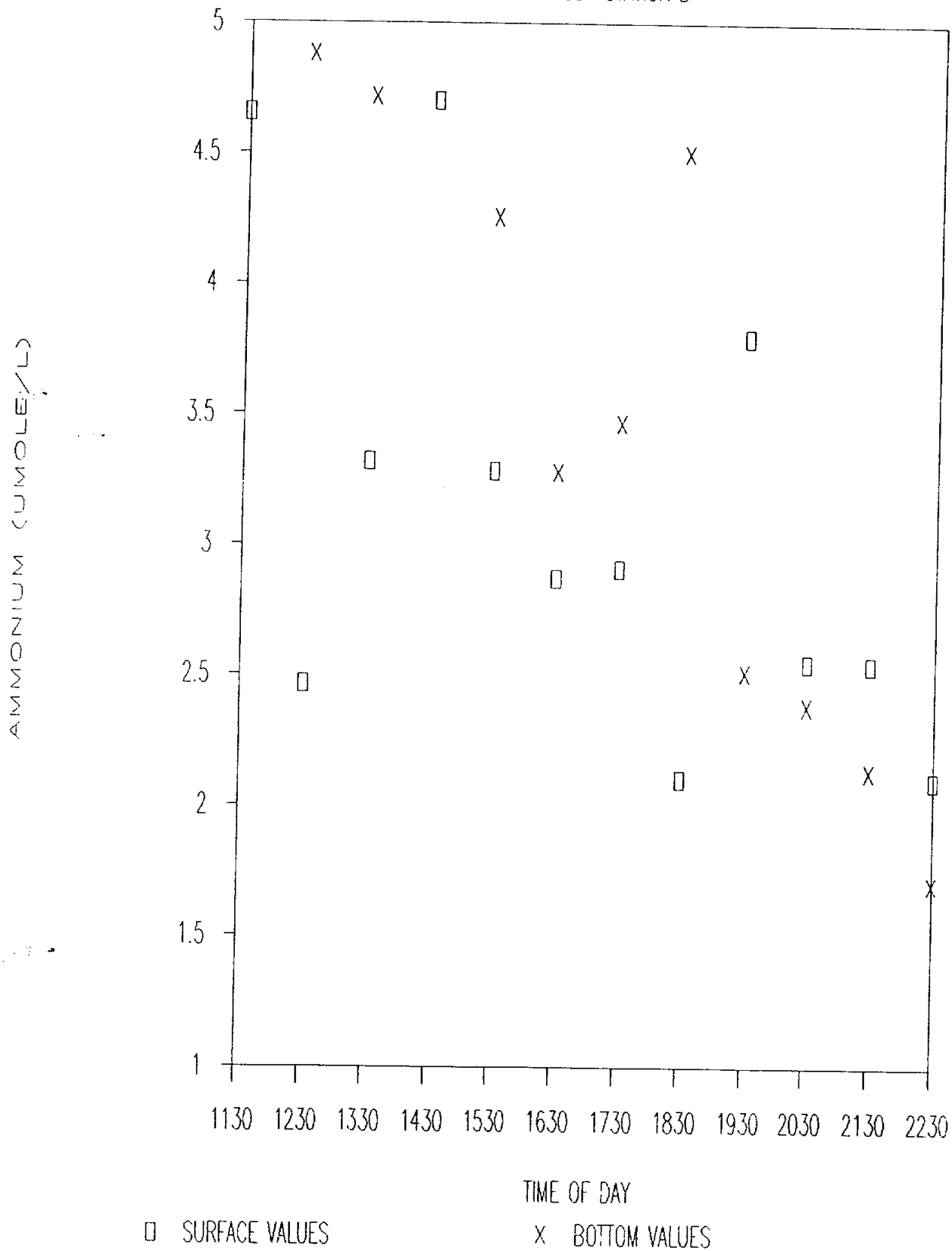
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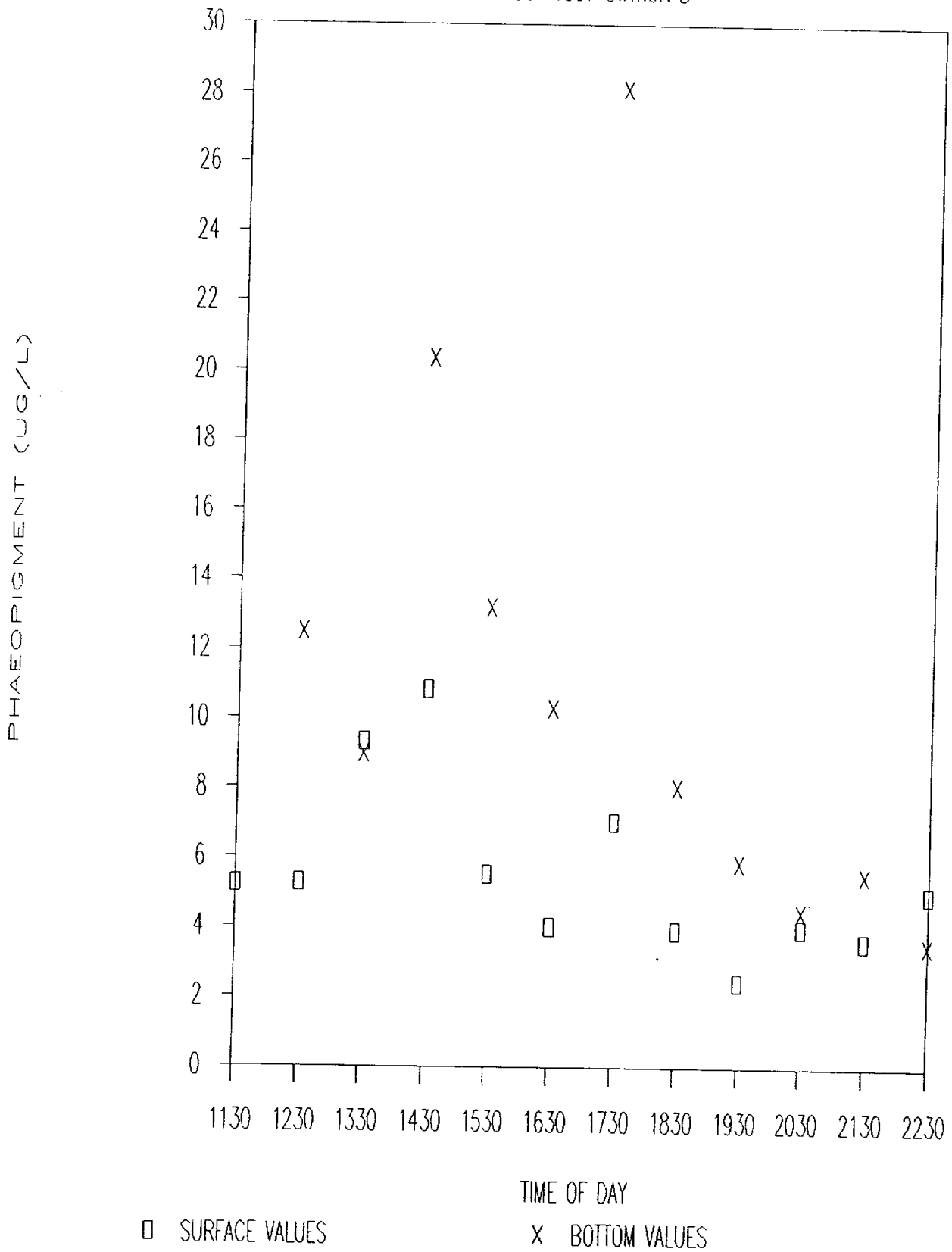
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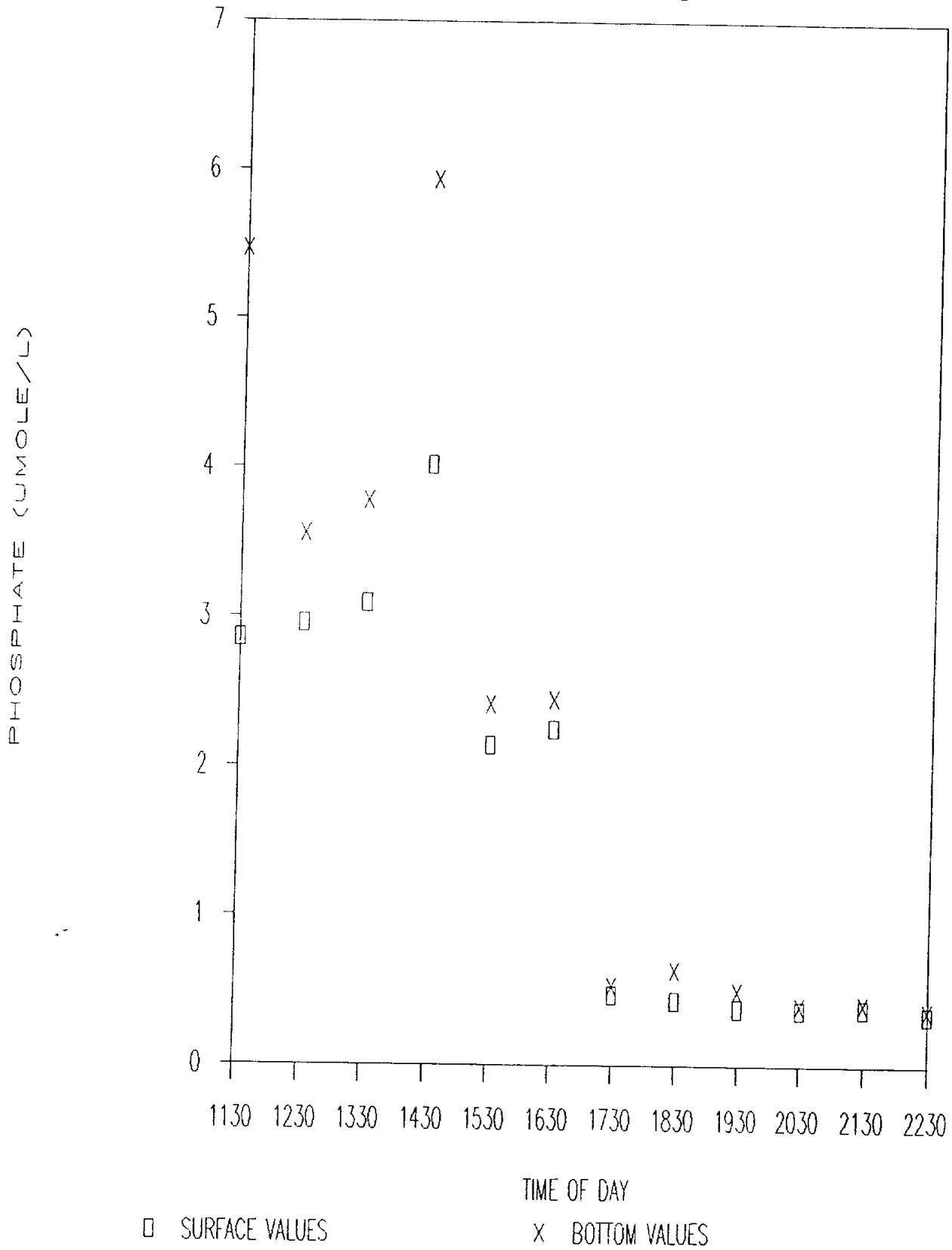
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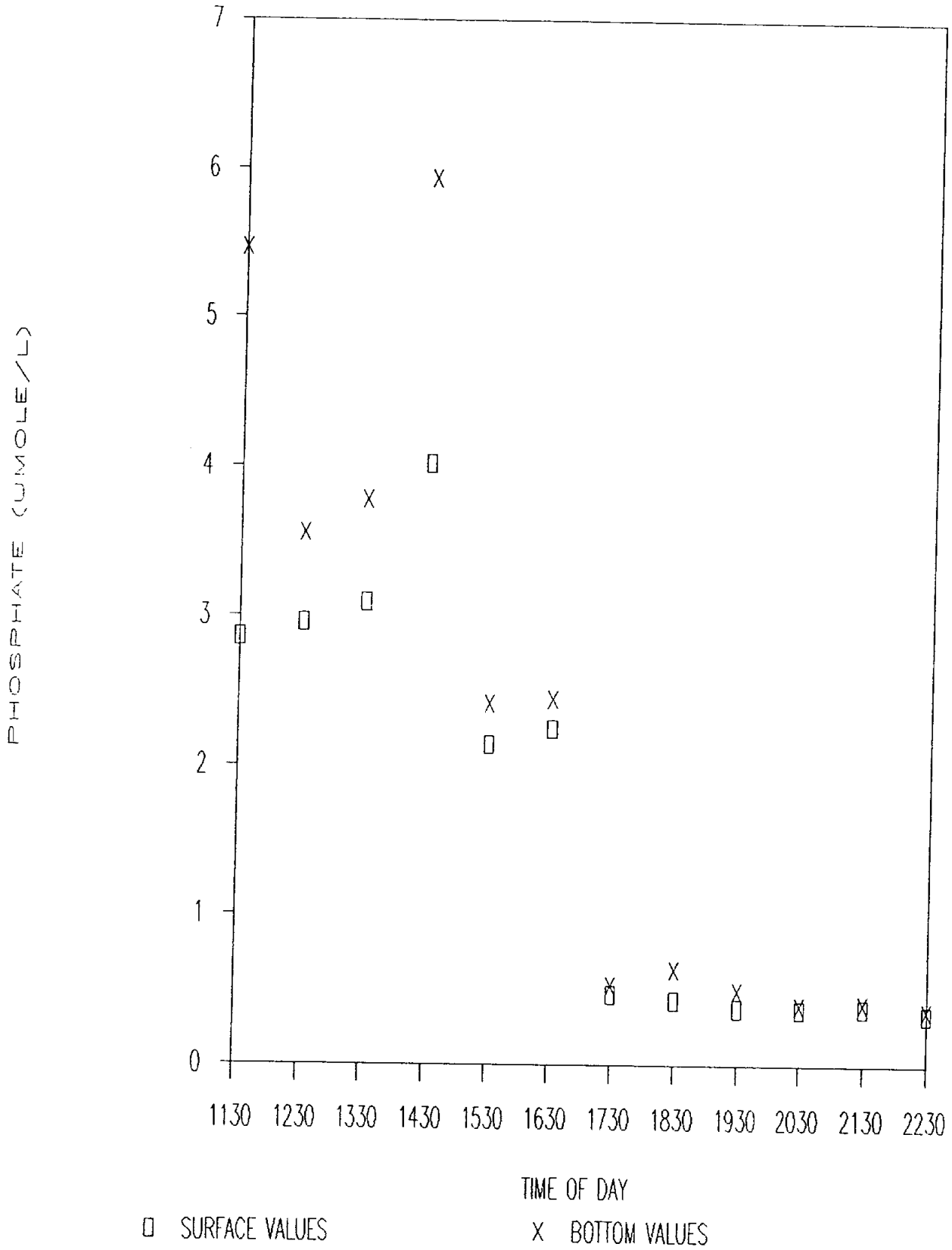
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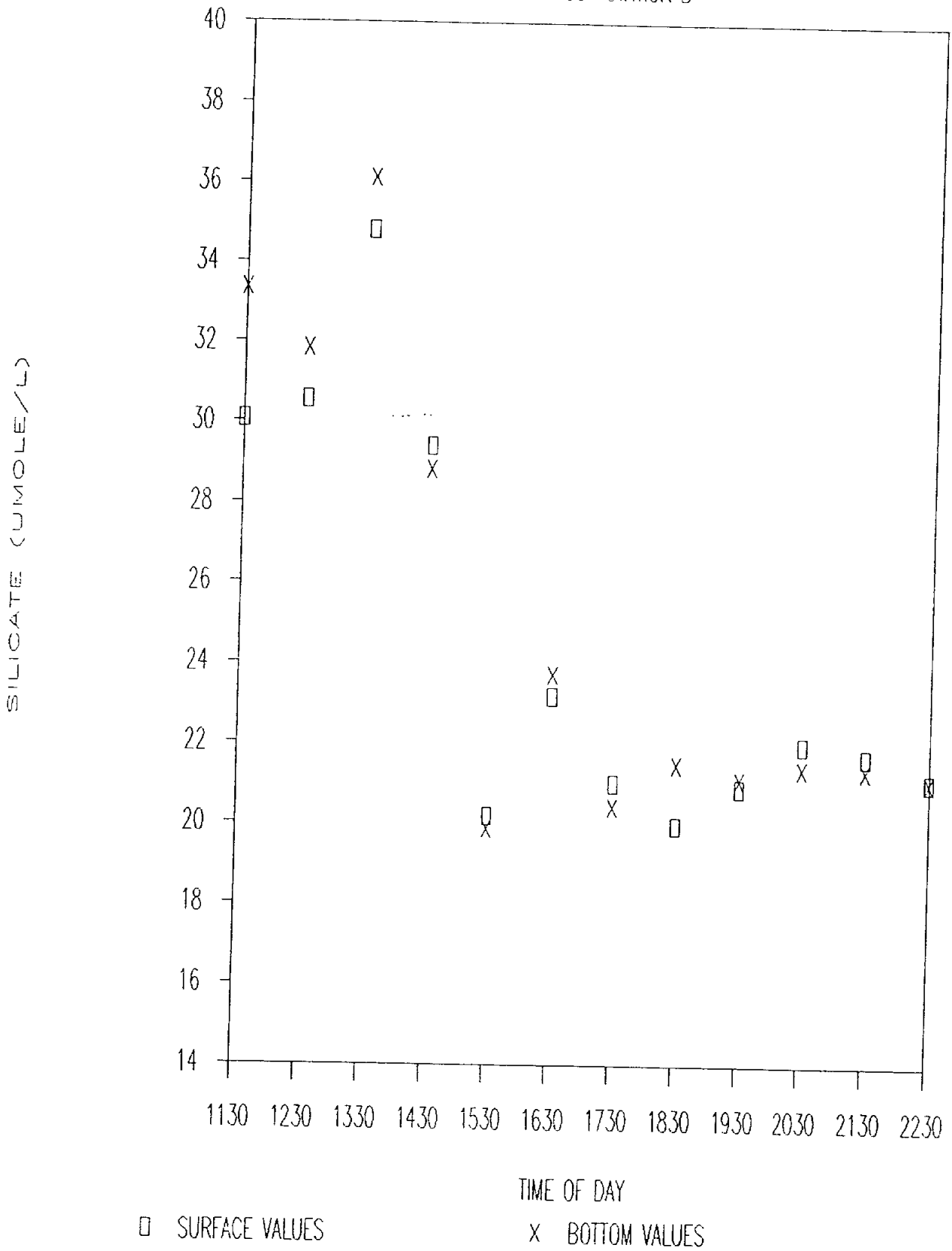
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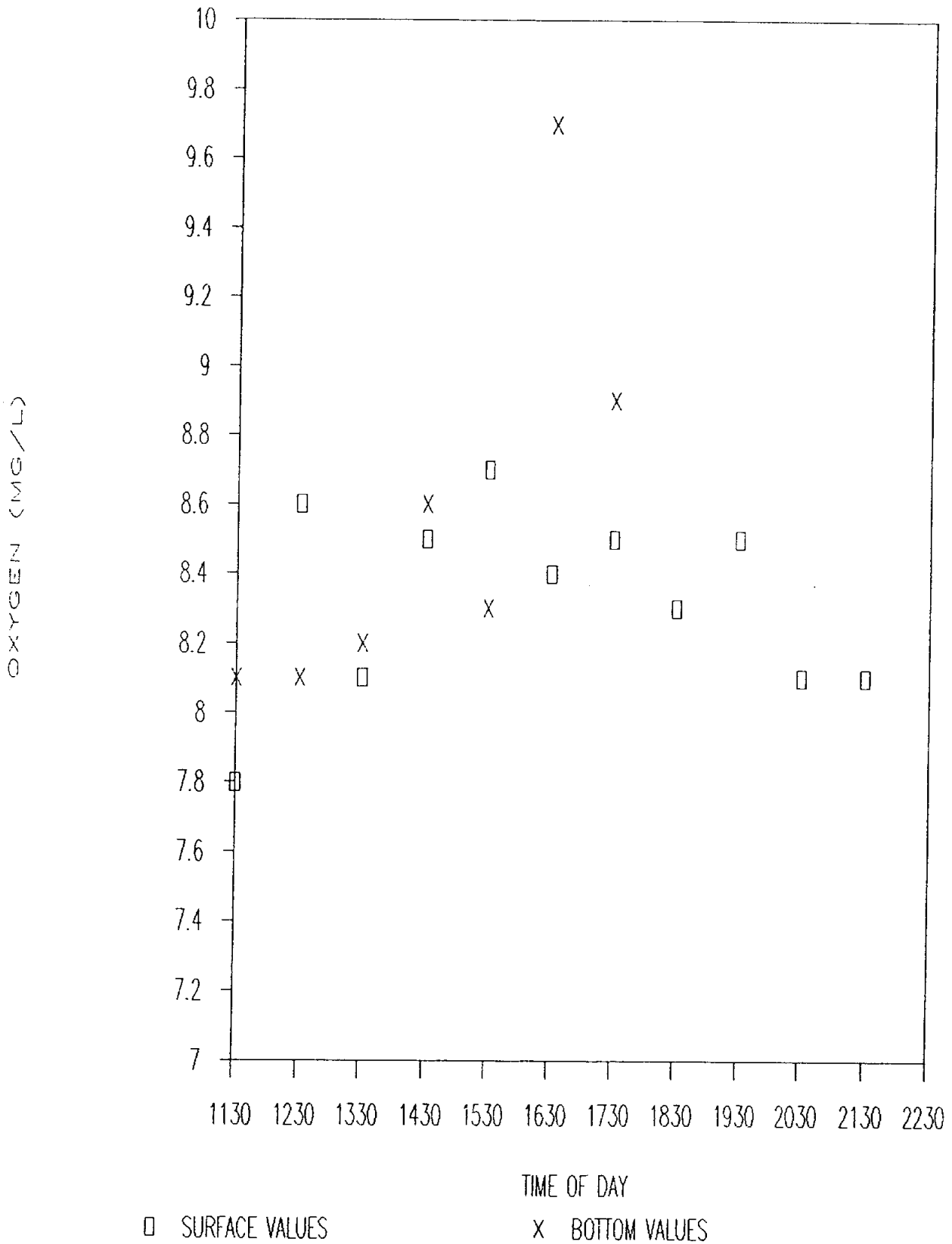
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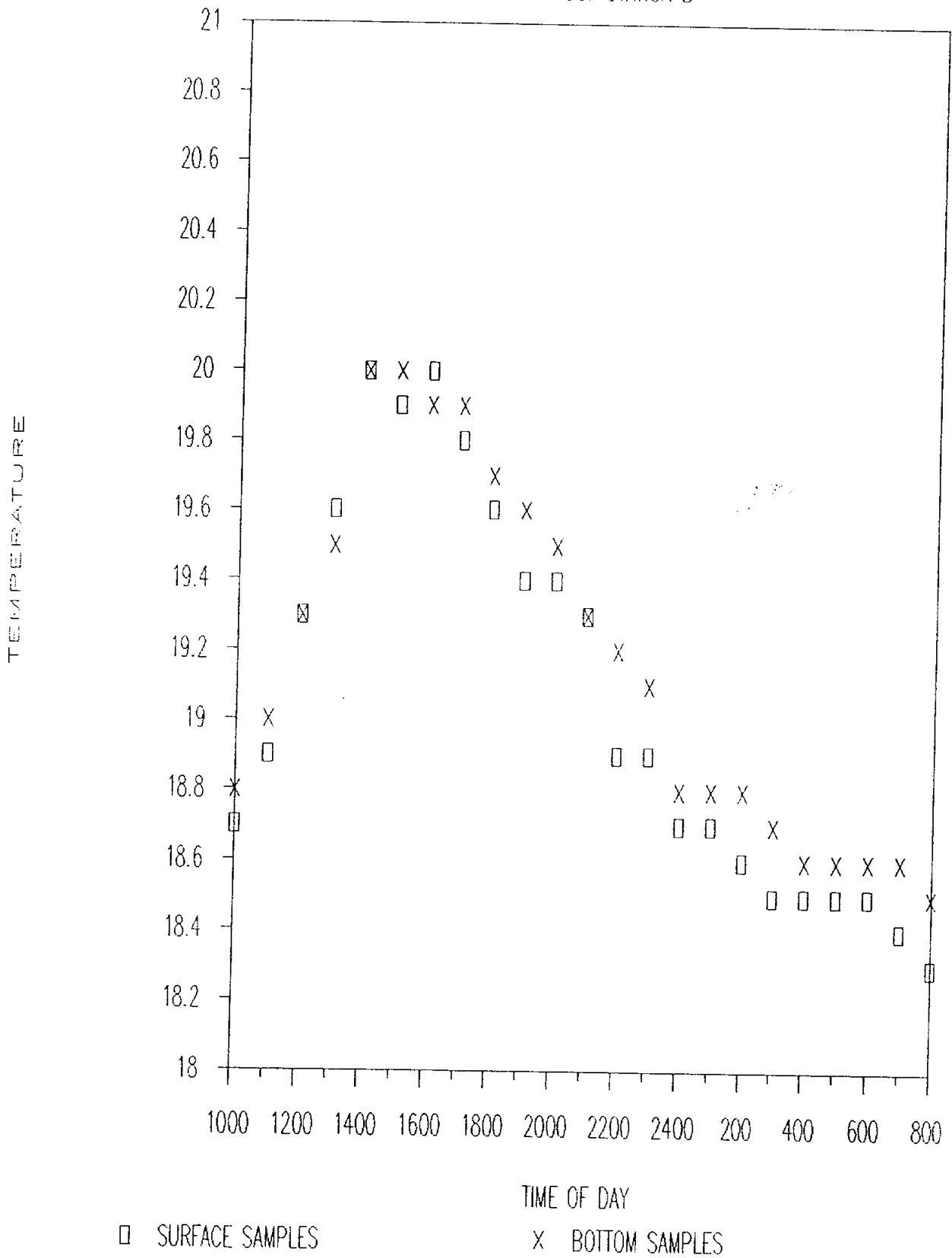
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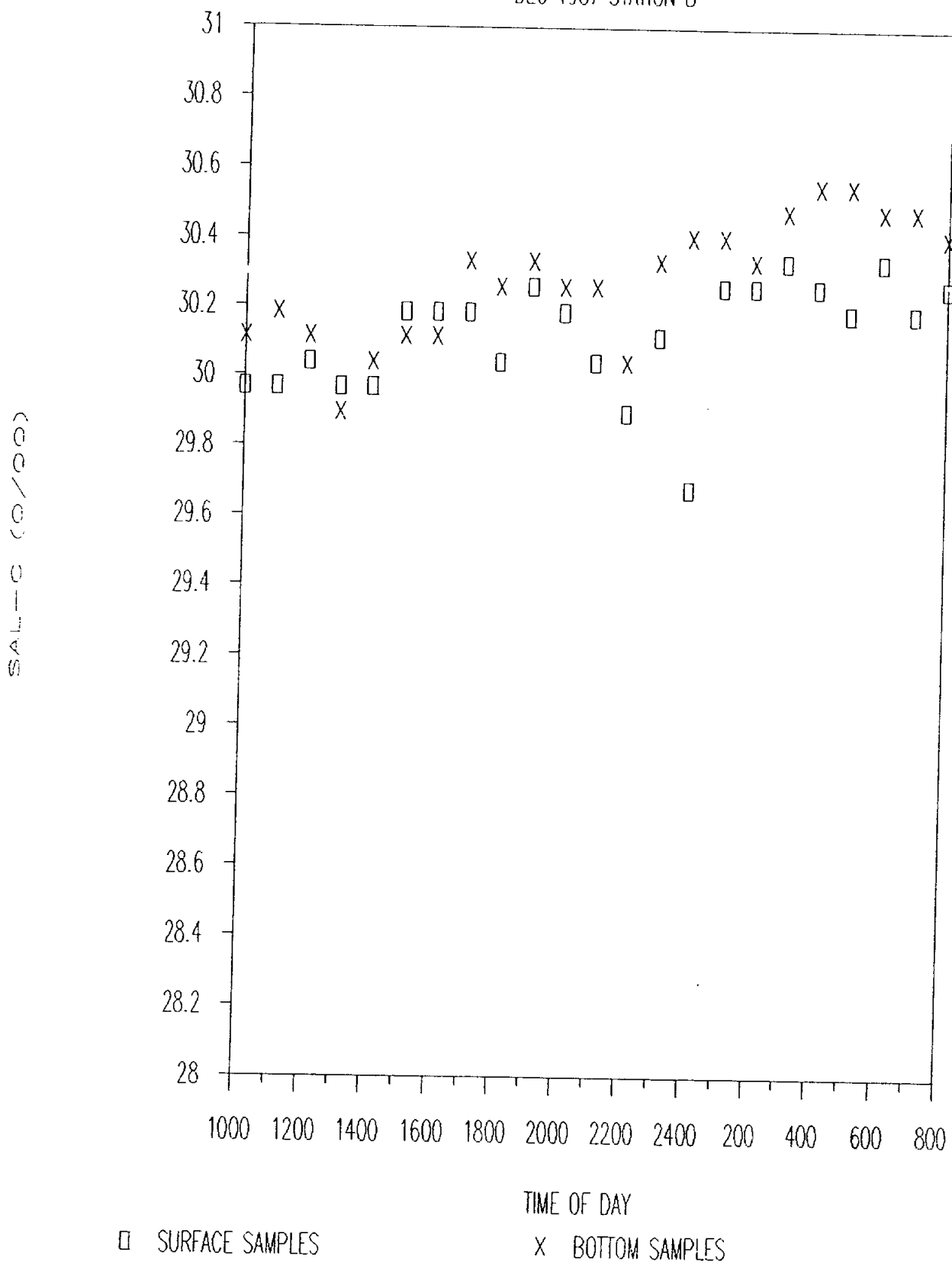
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DEC 1987 STATION B



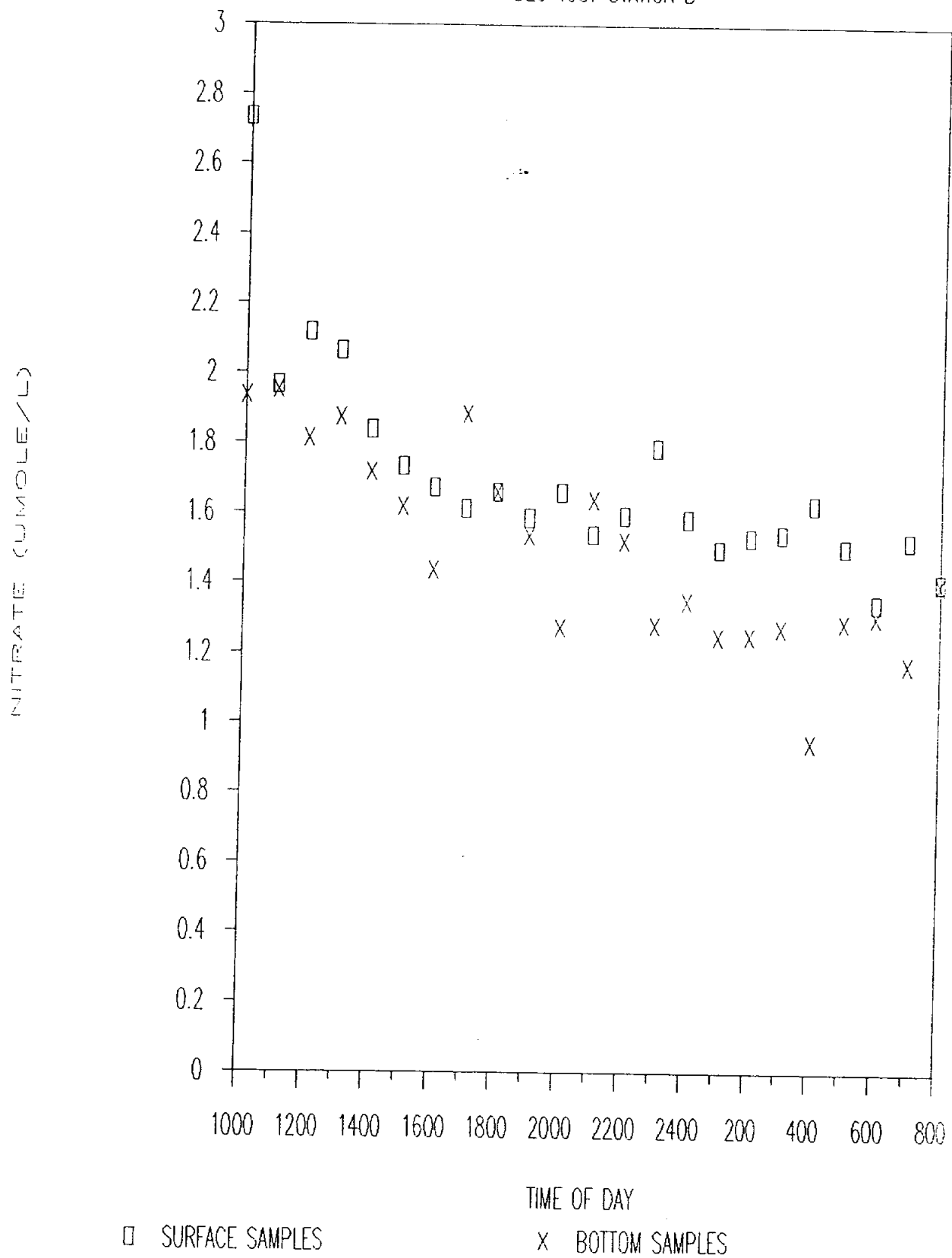
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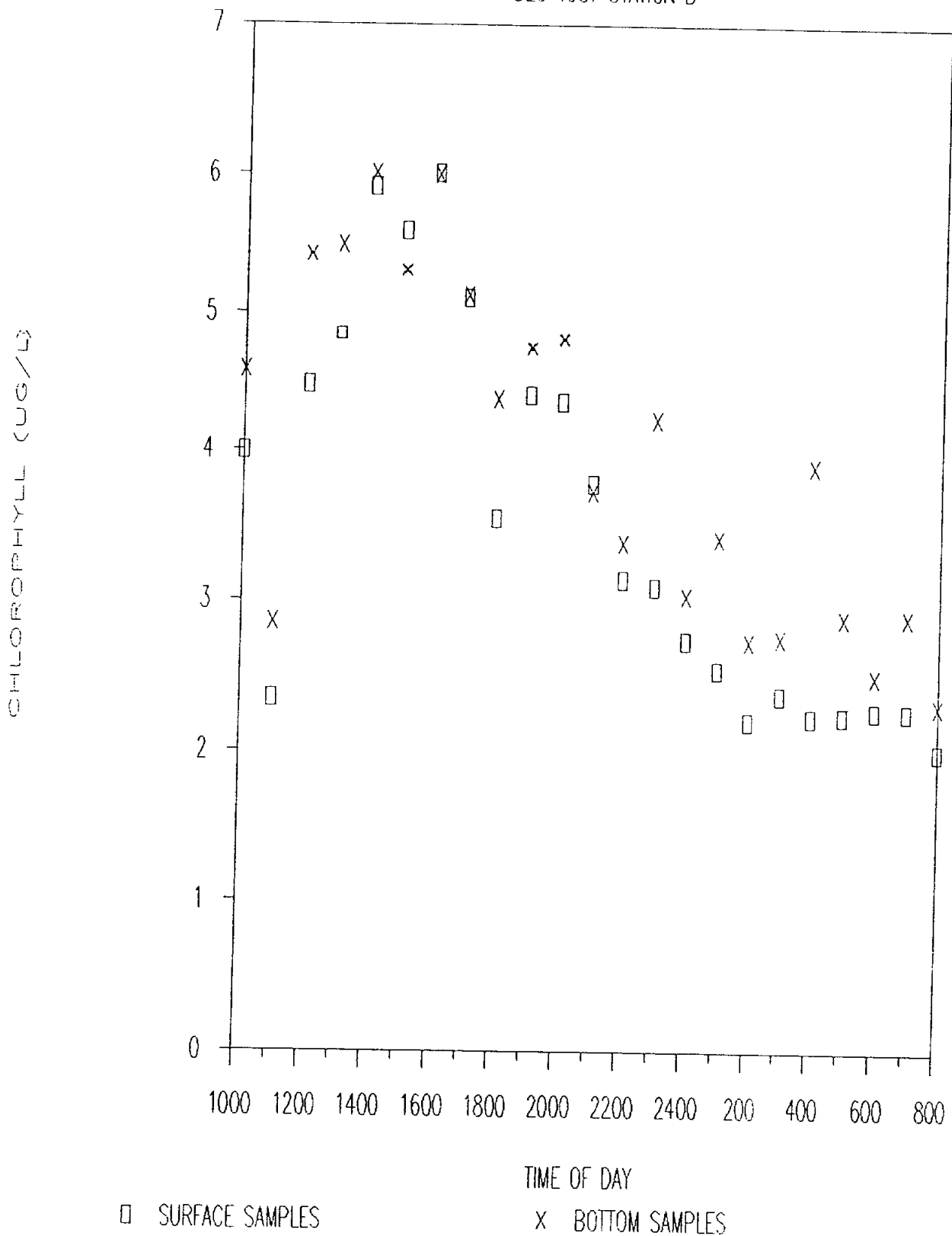
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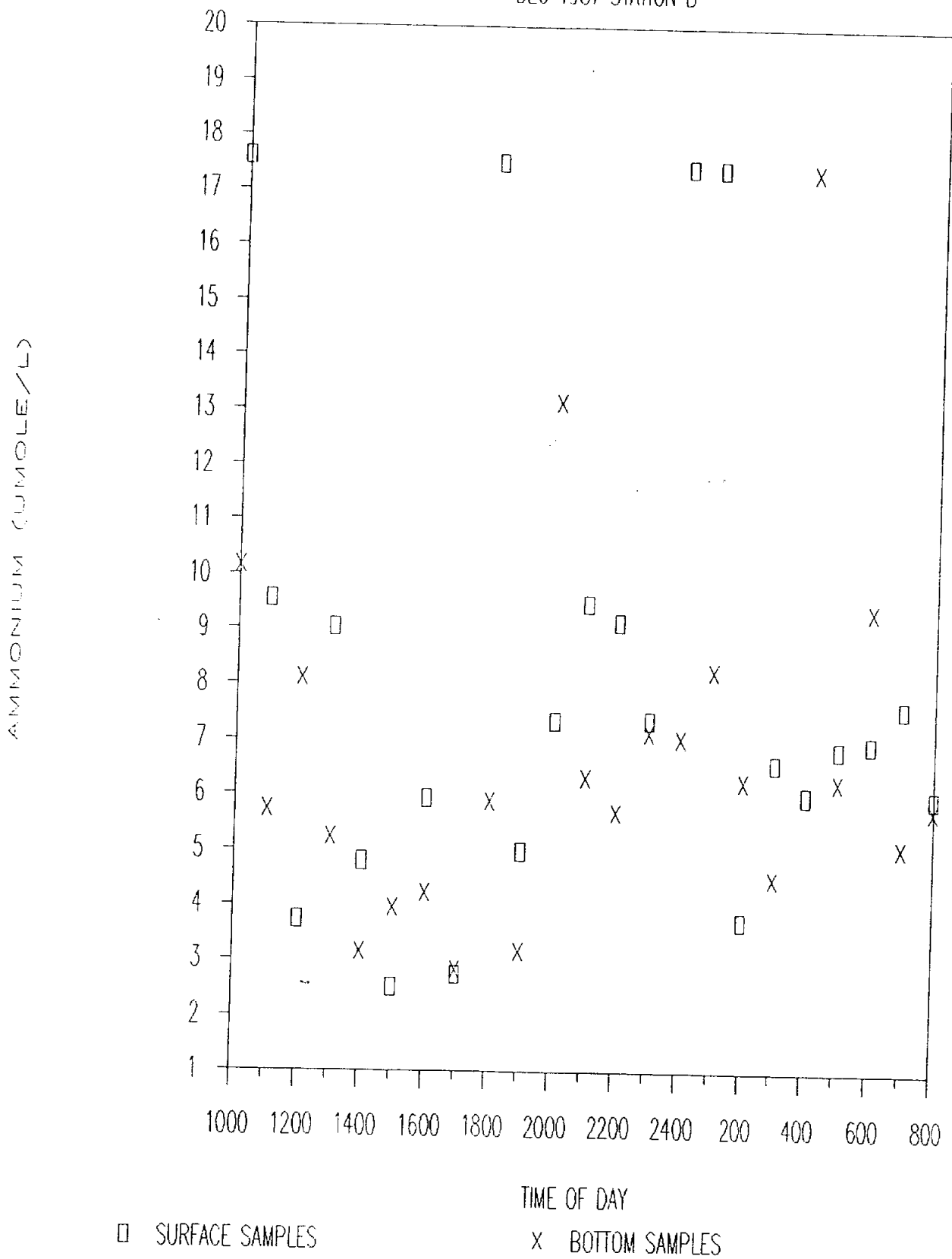
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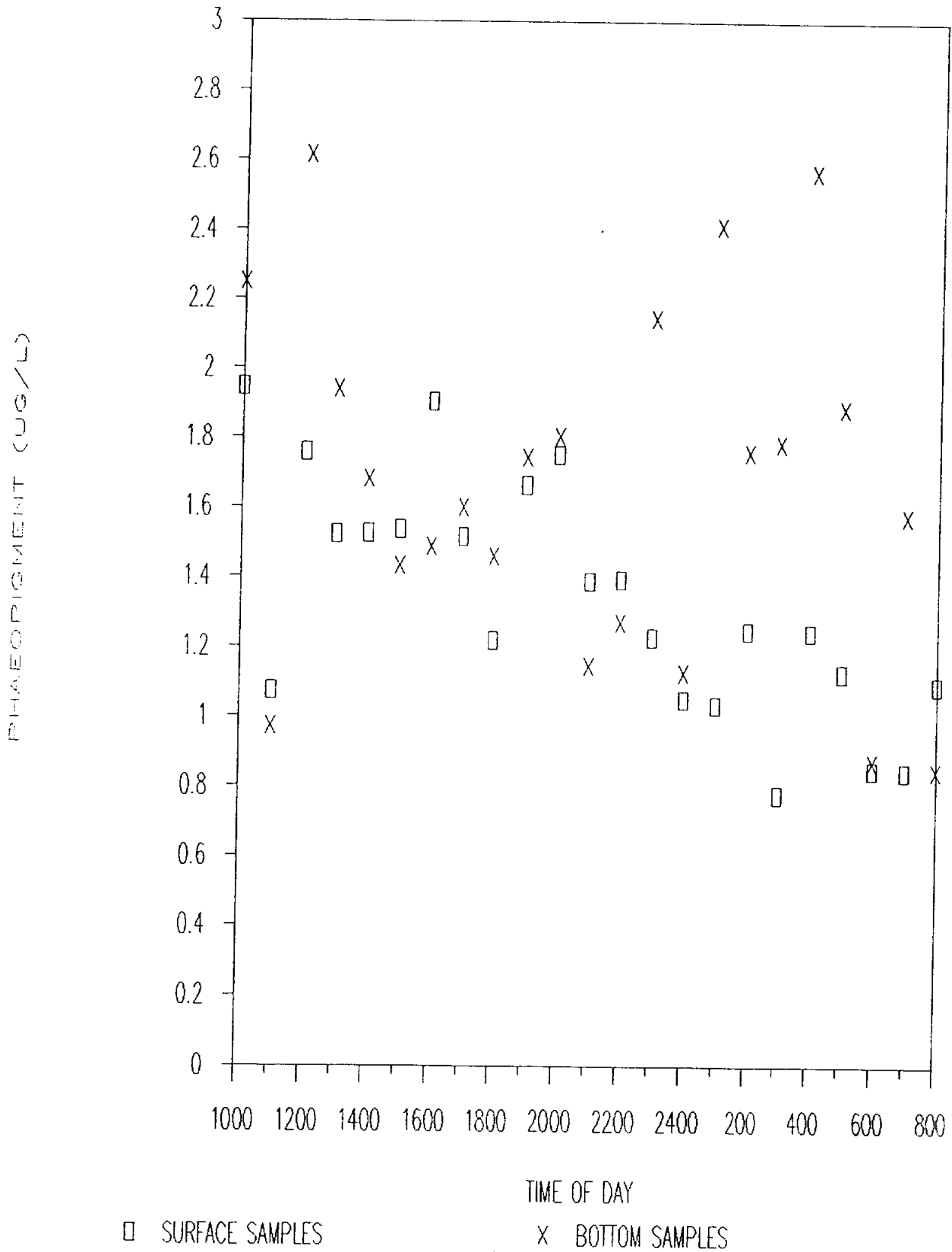
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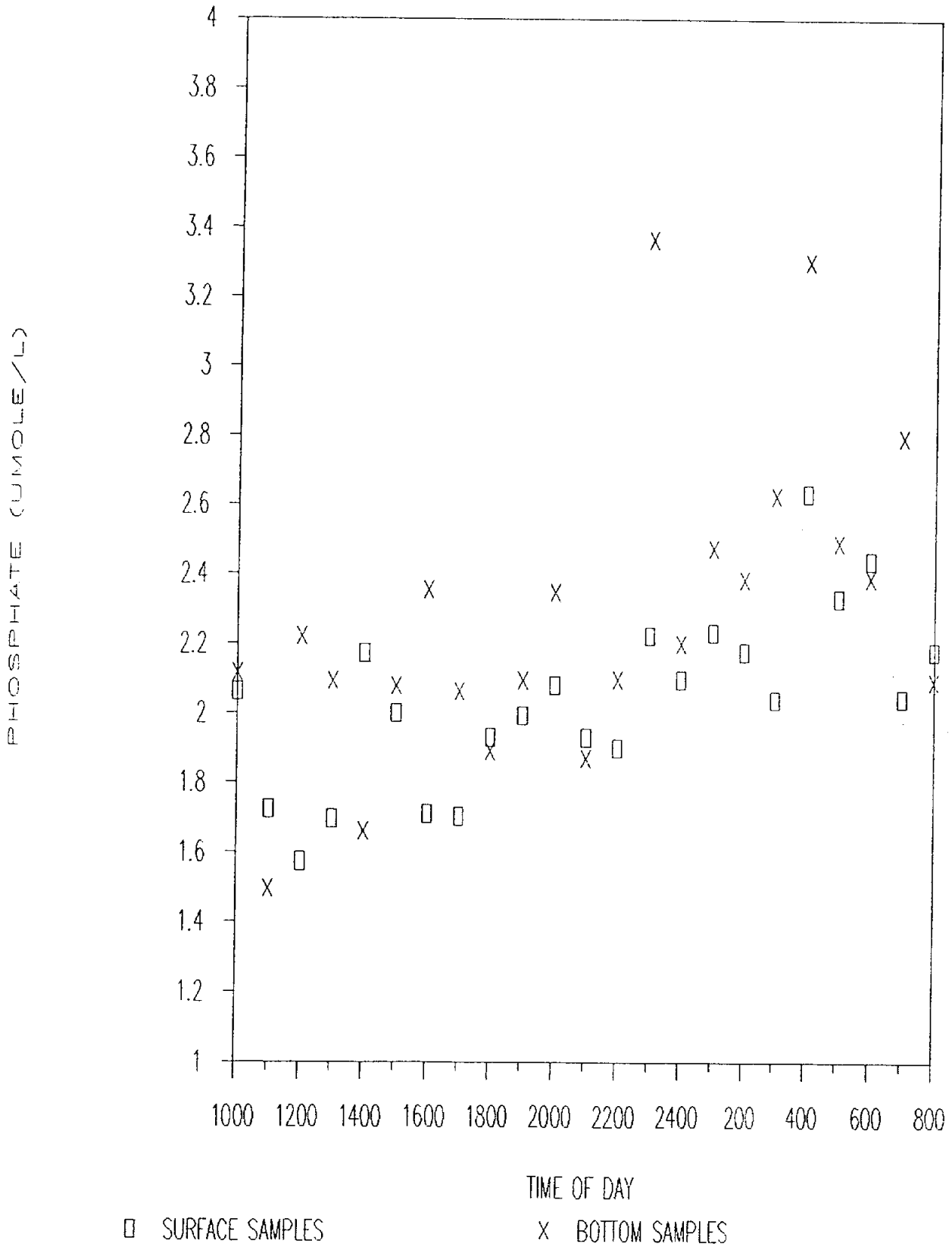
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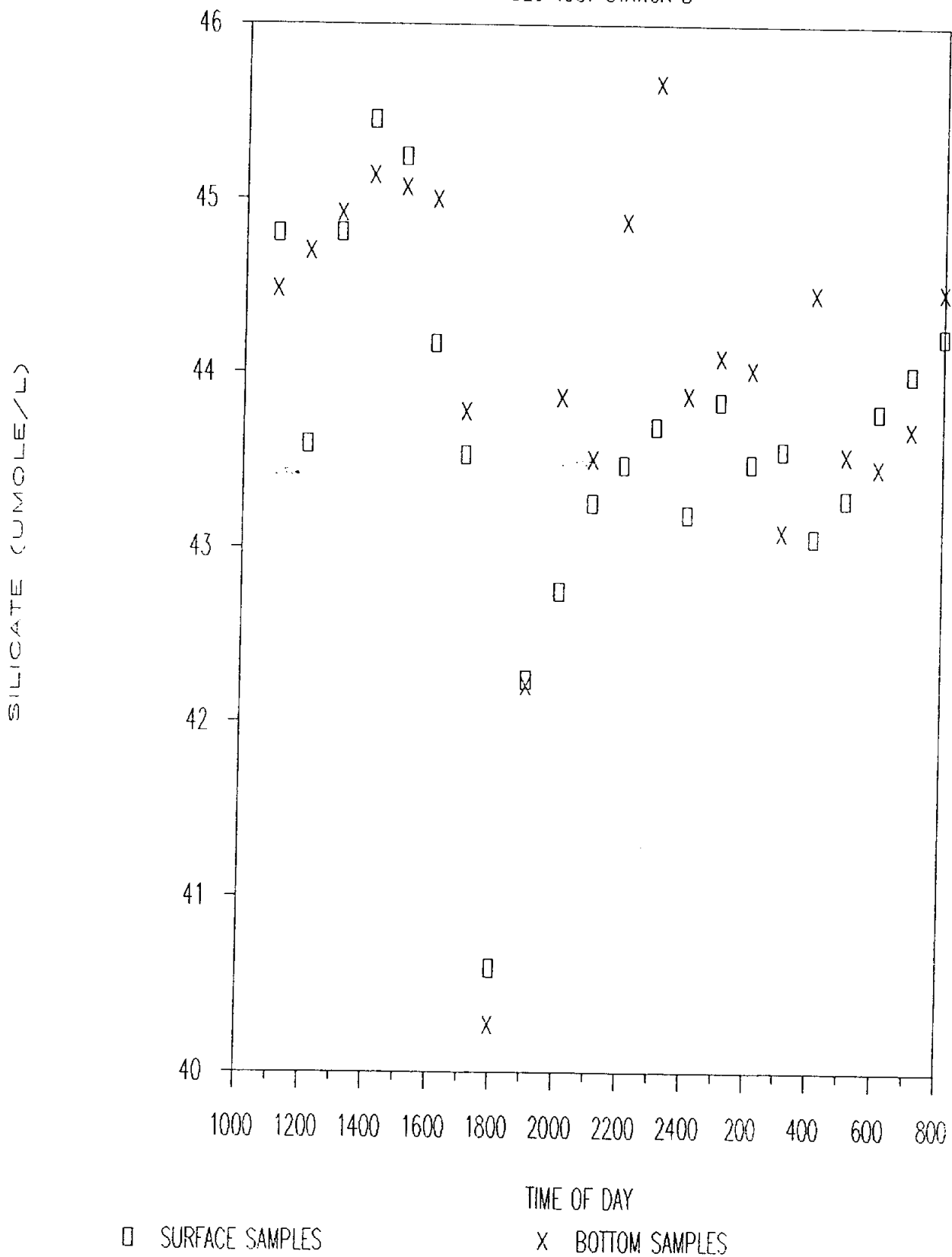
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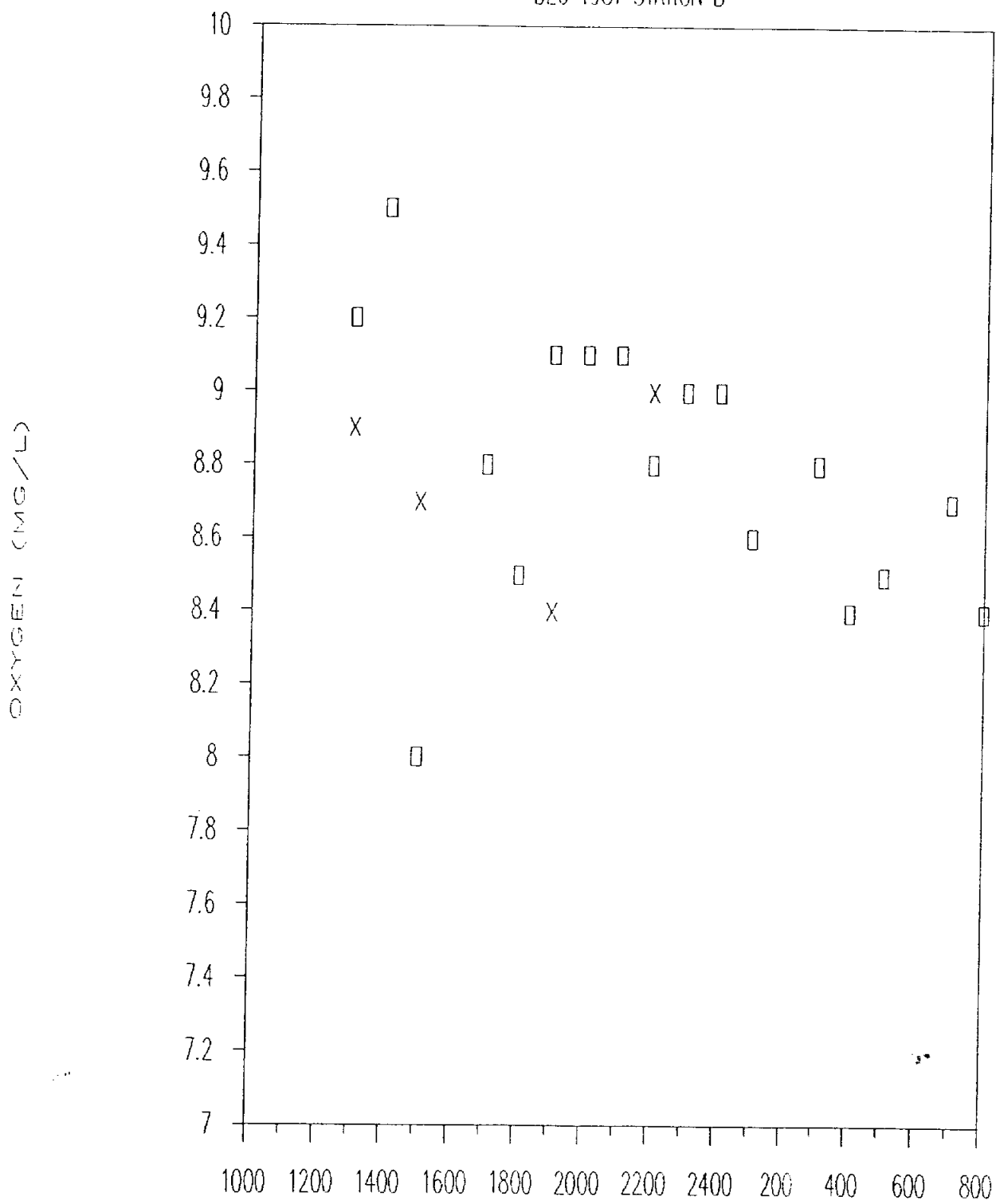
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CORPUS CHRISTI/NUECES BAYS

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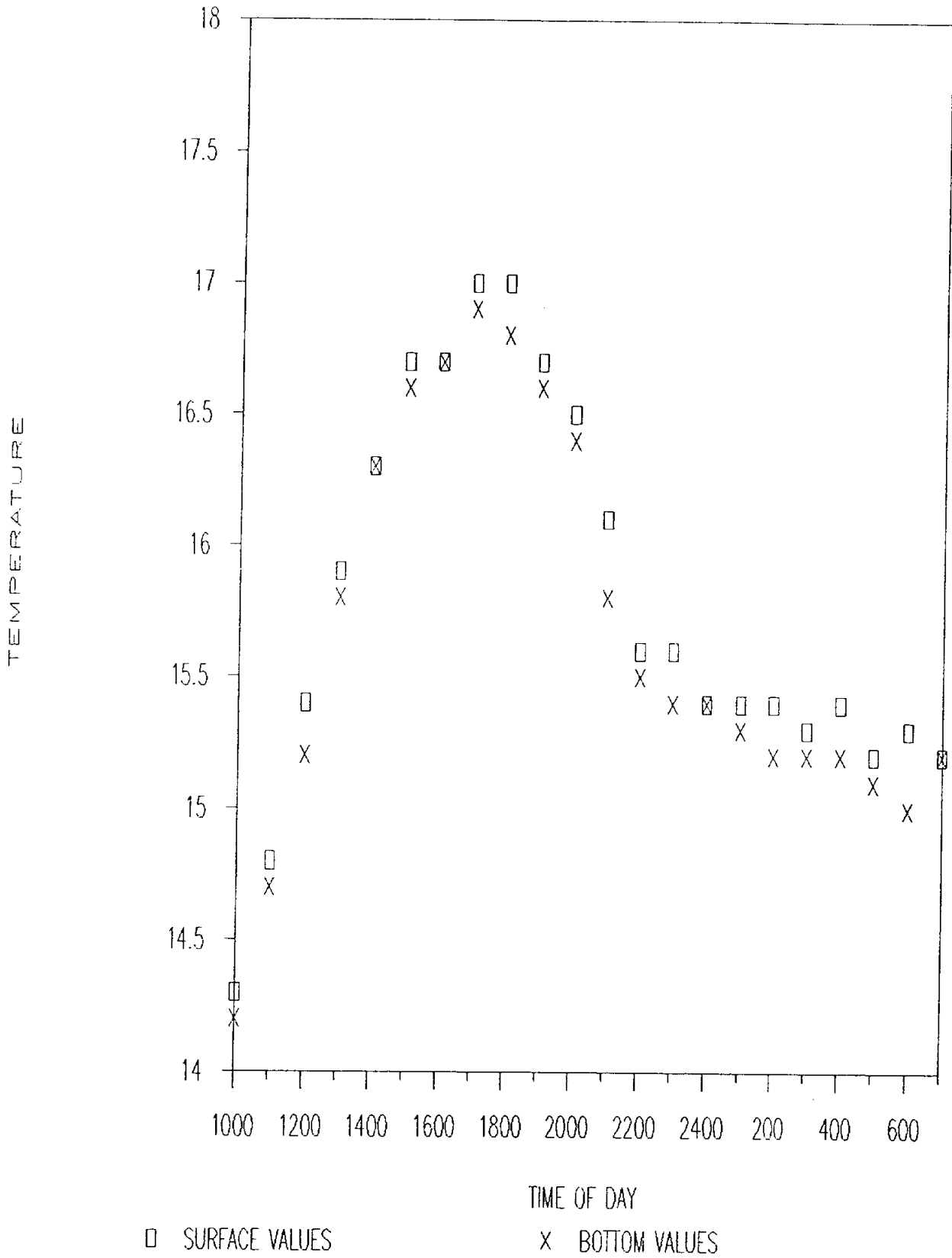


□ SURFACE SAMPLES

X BOTTOM SAMPLES

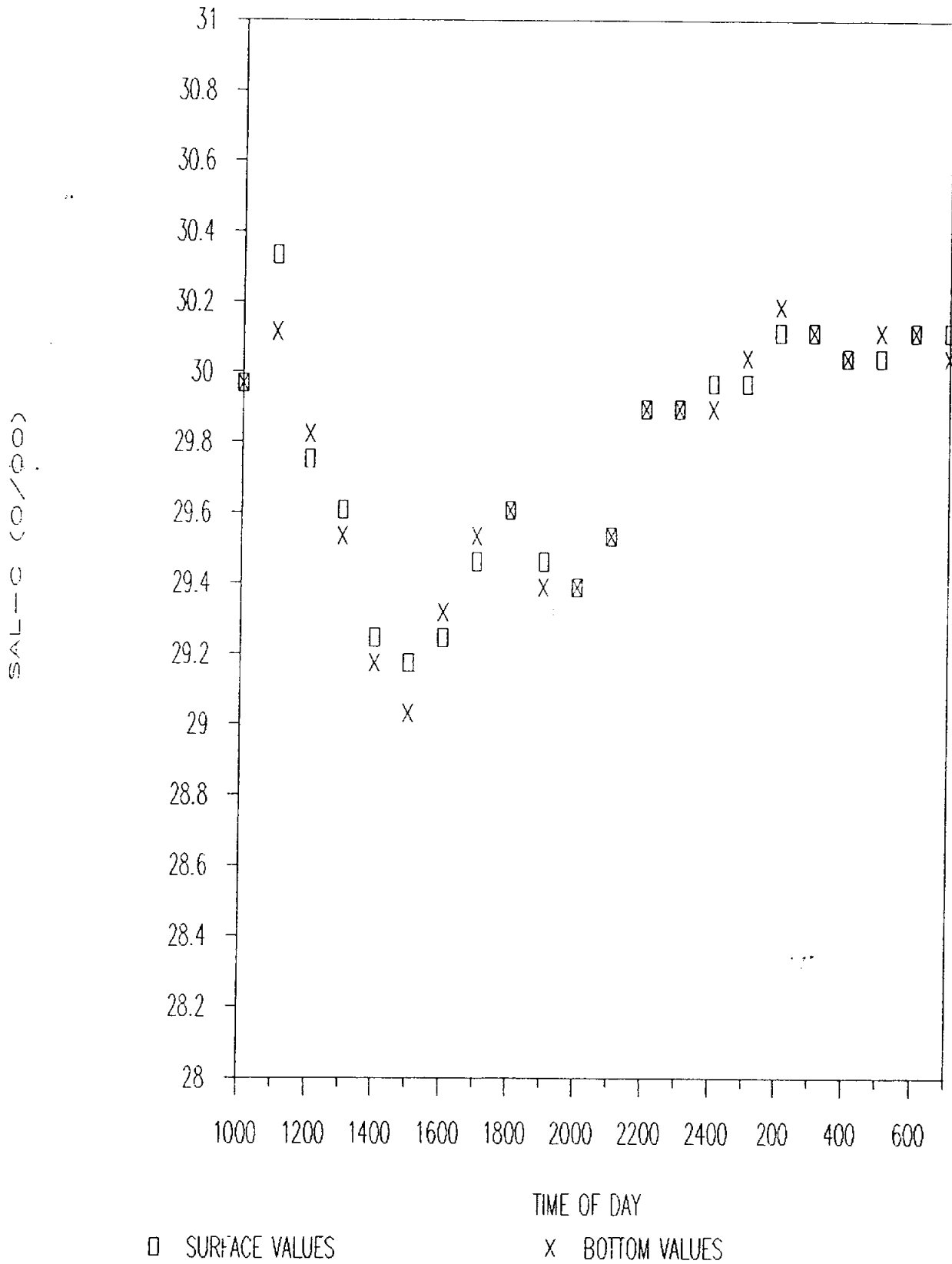
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FEB 1988 STATION B



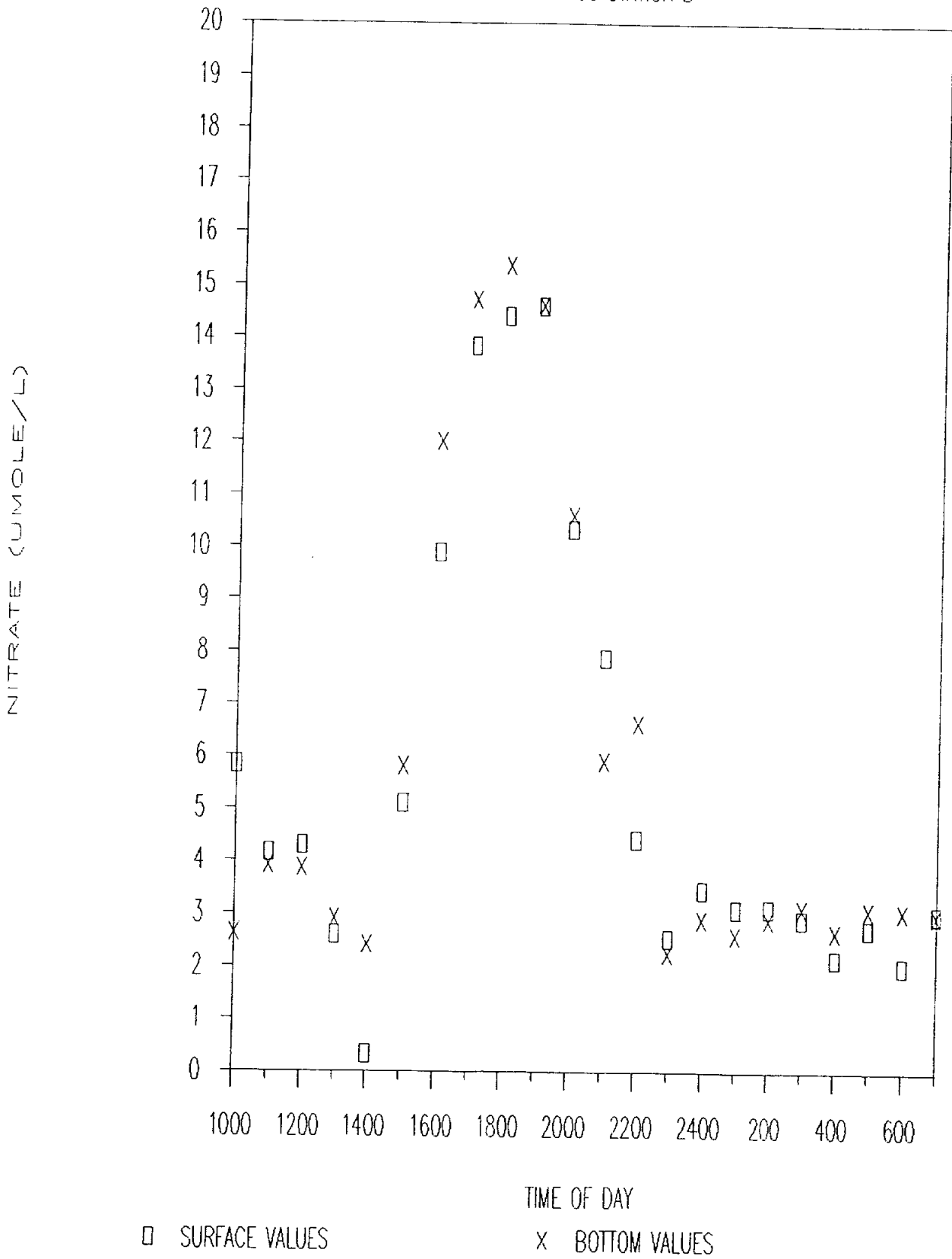
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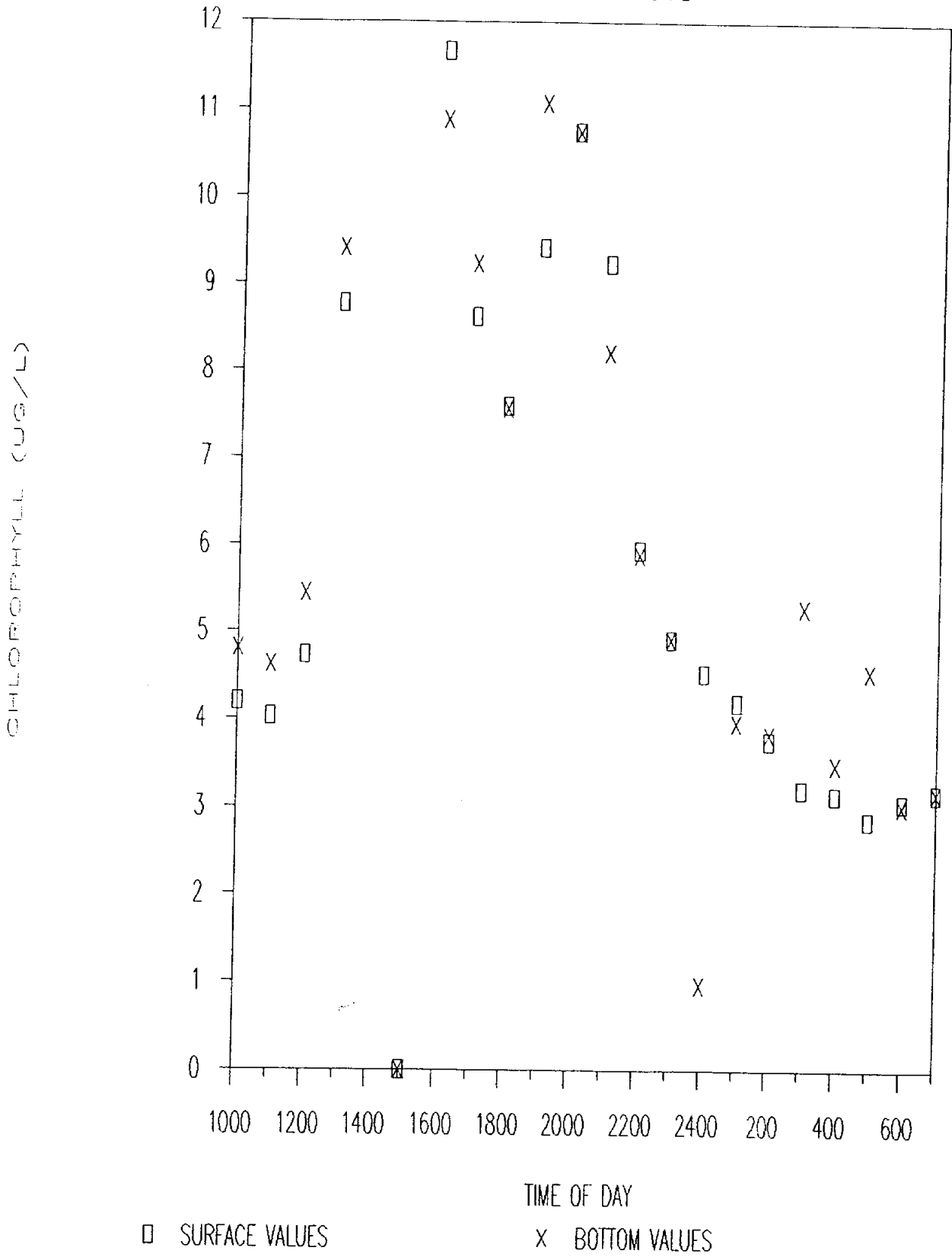
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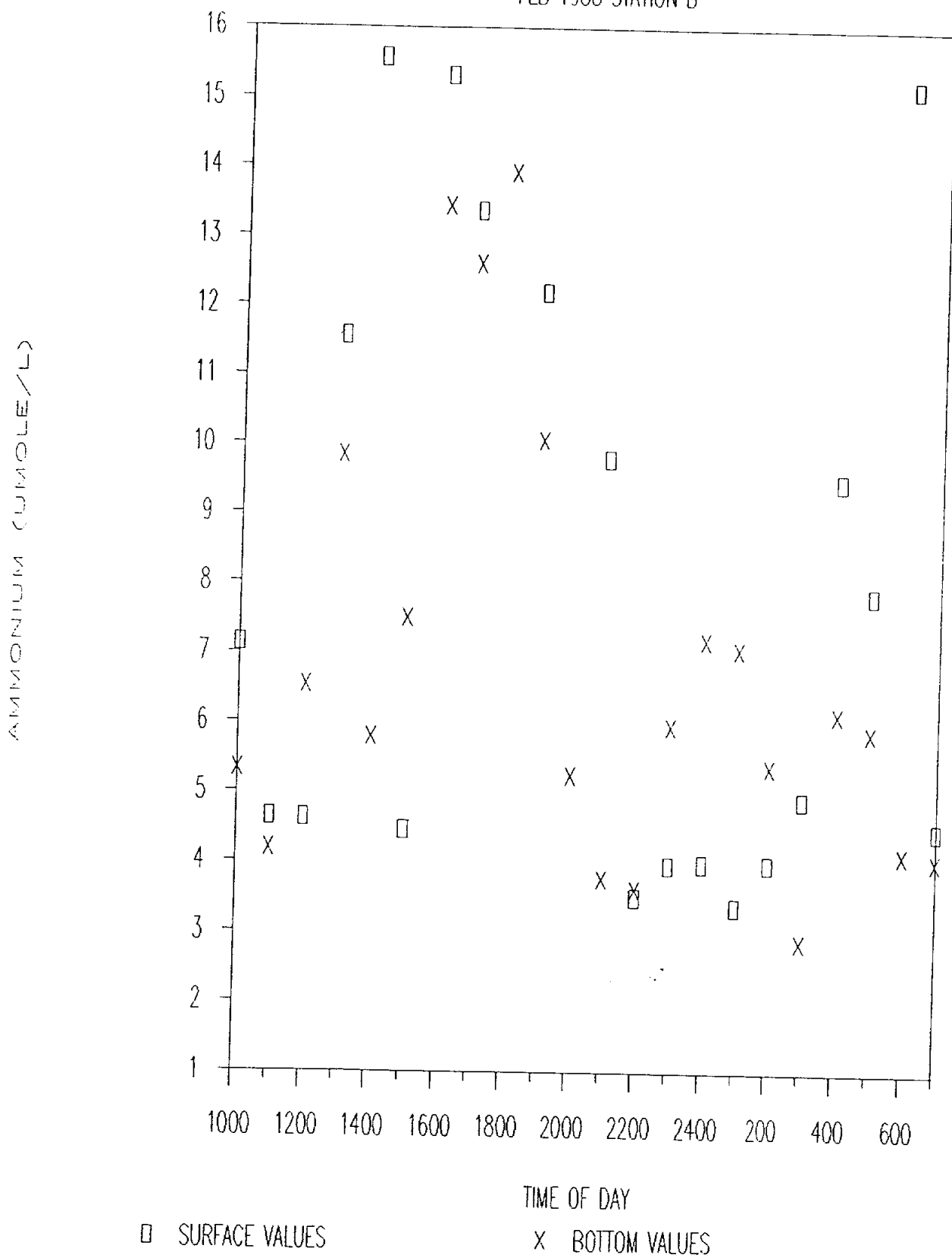
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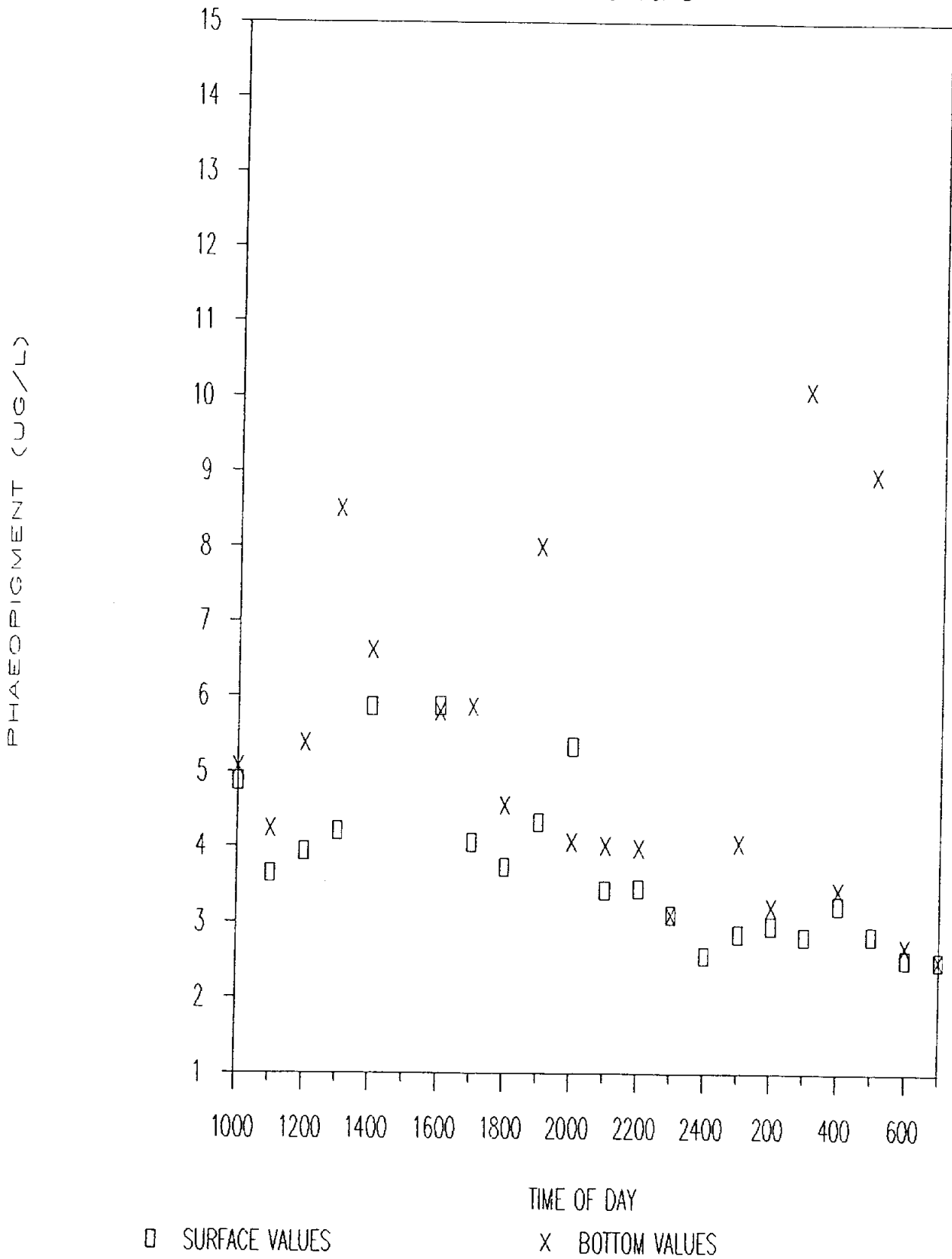
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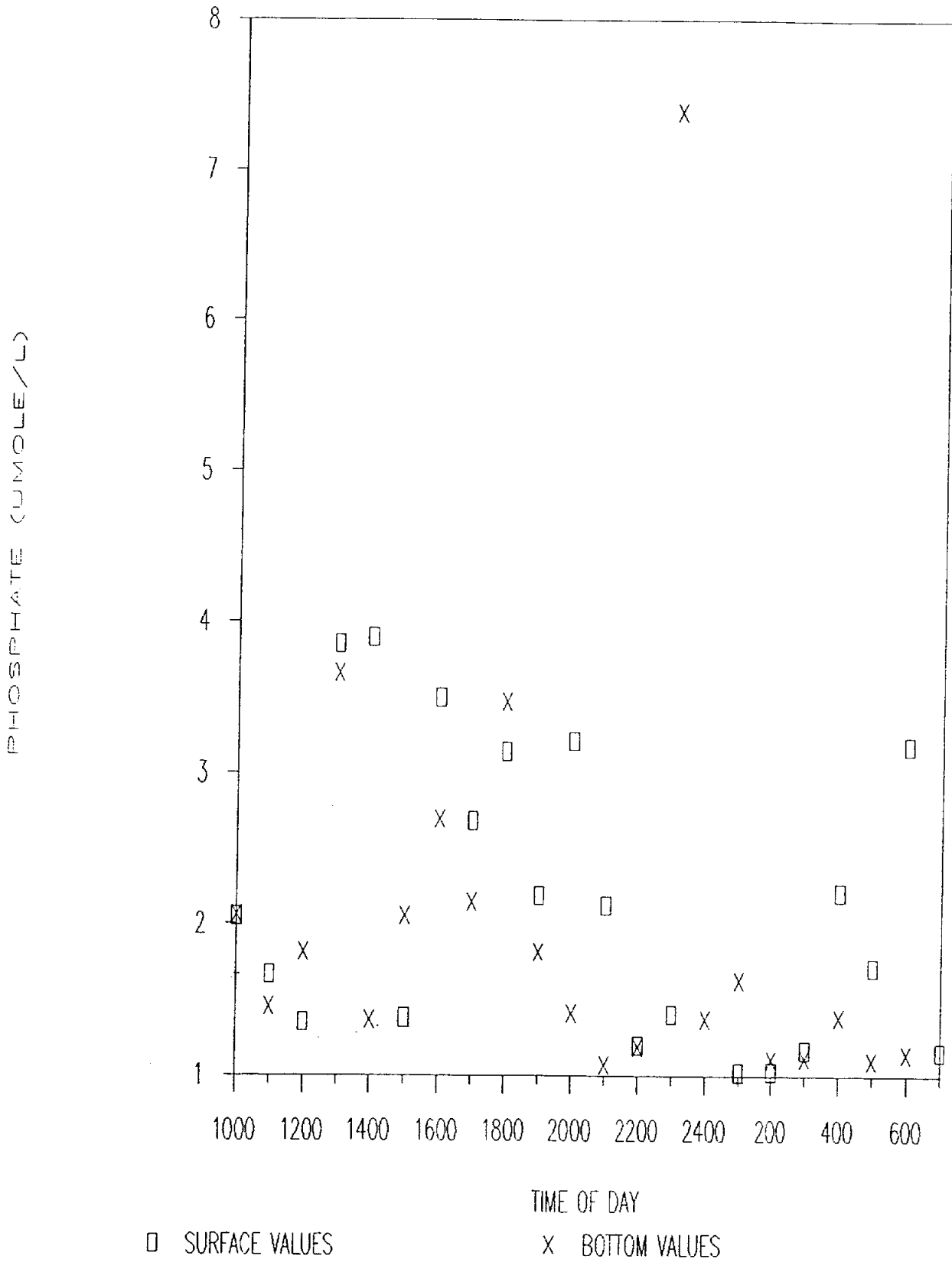
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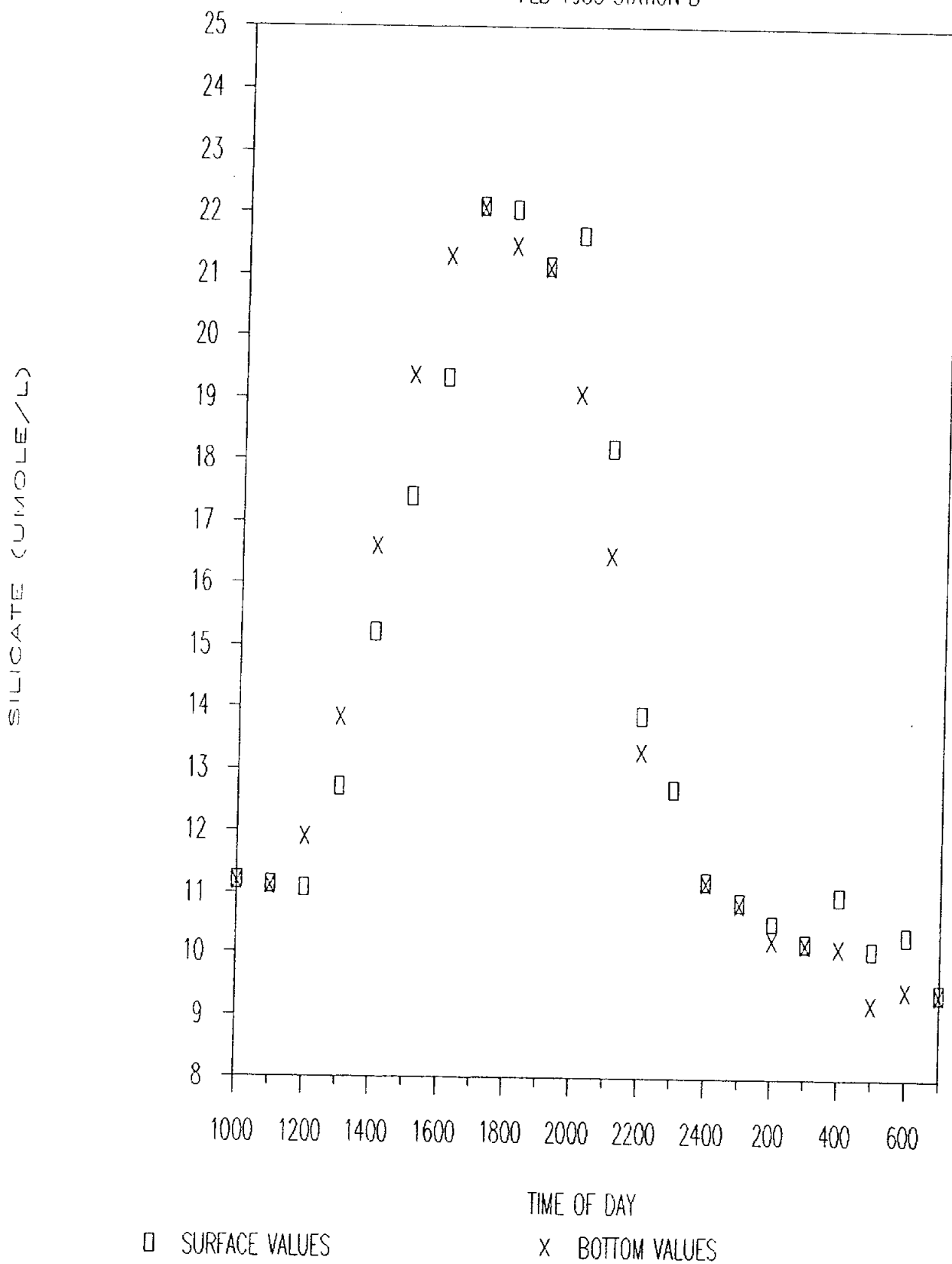
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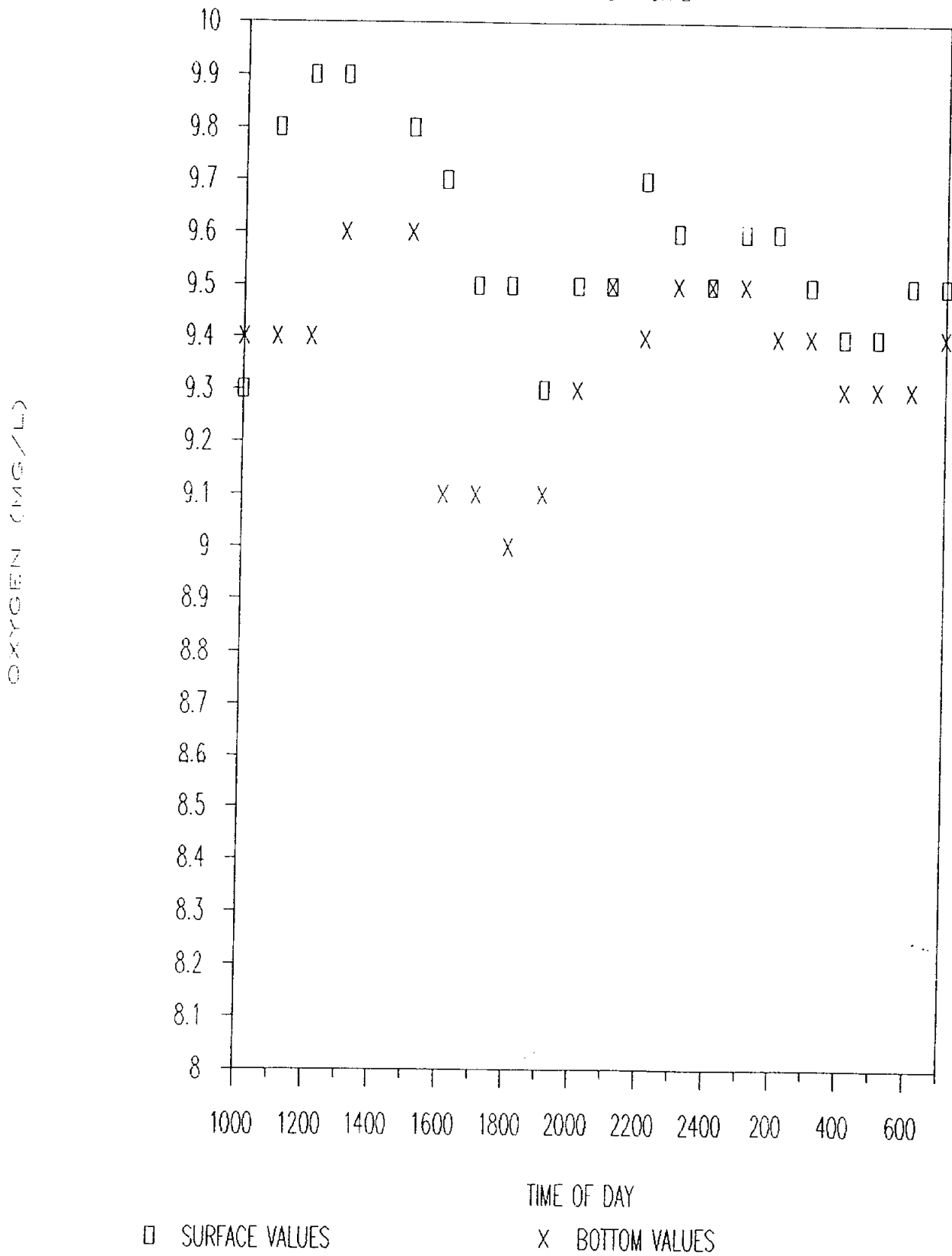
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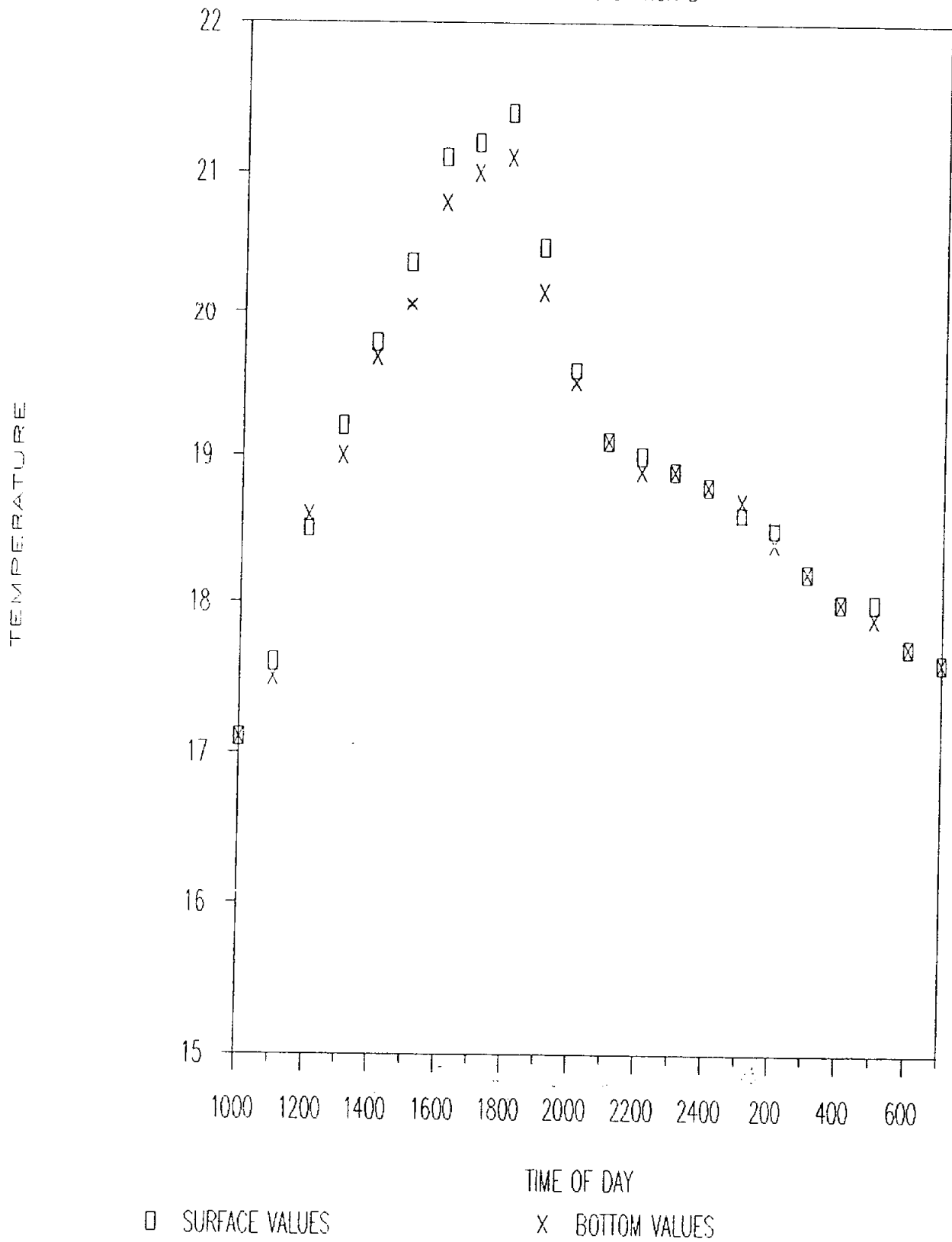
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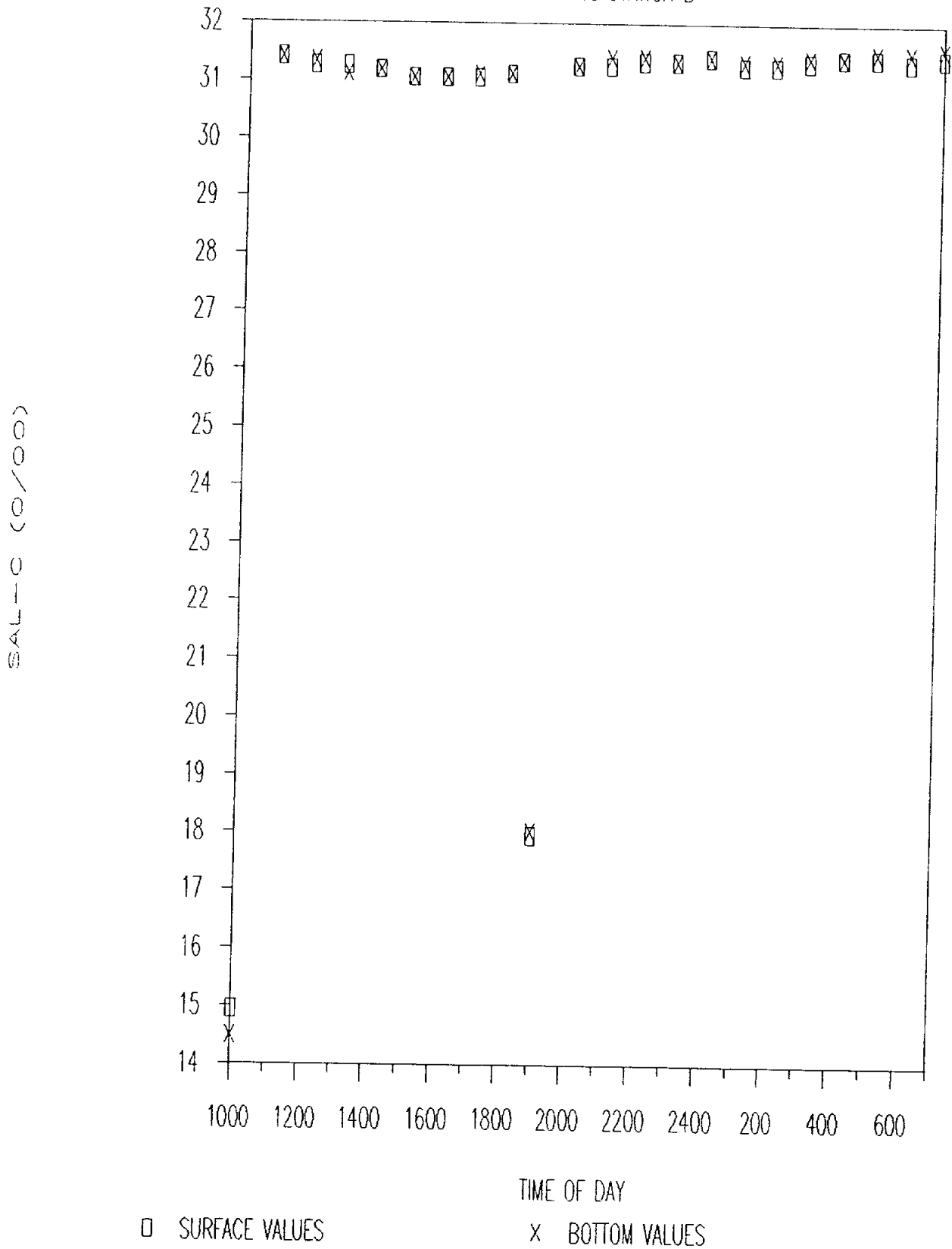
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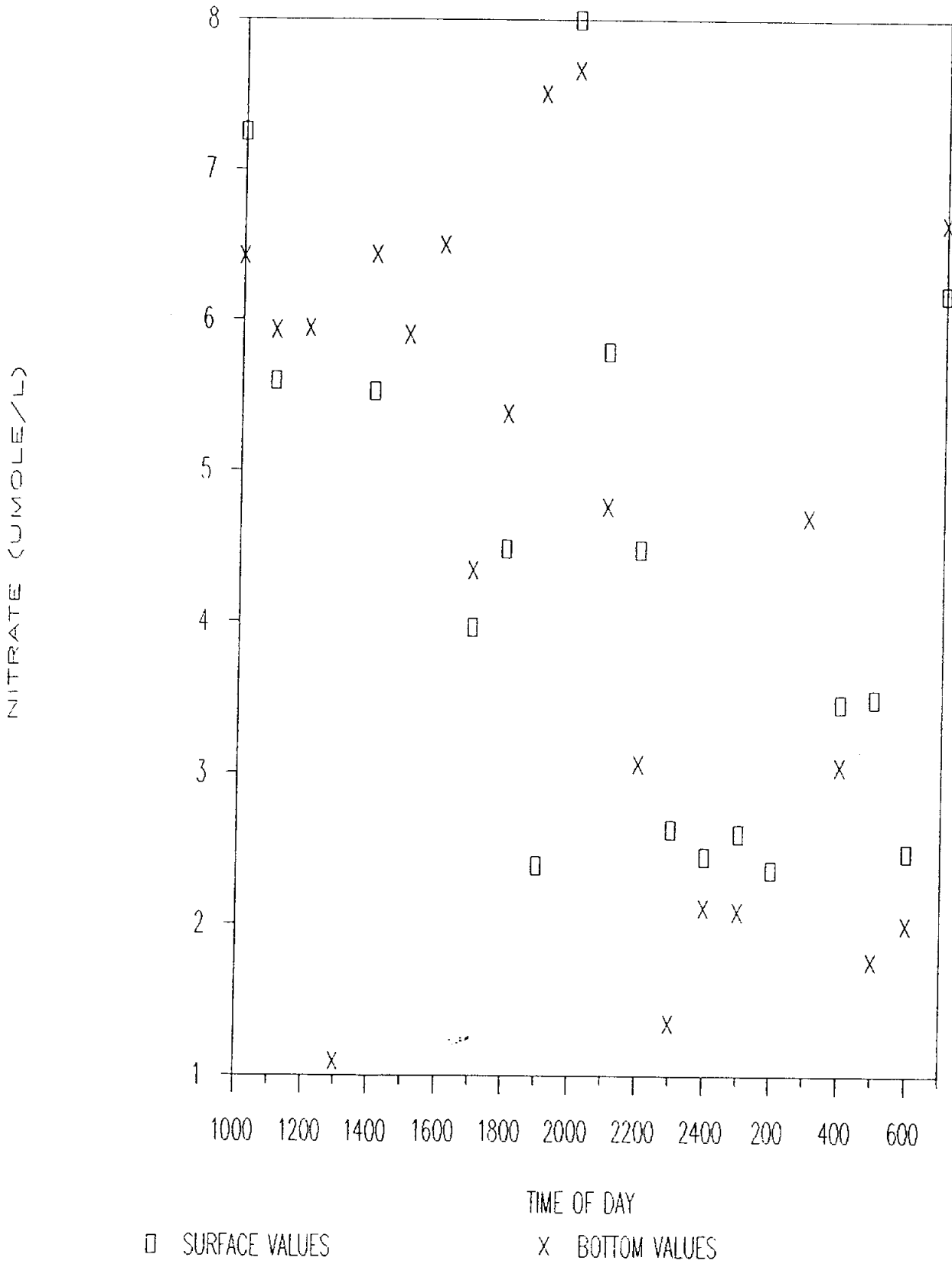
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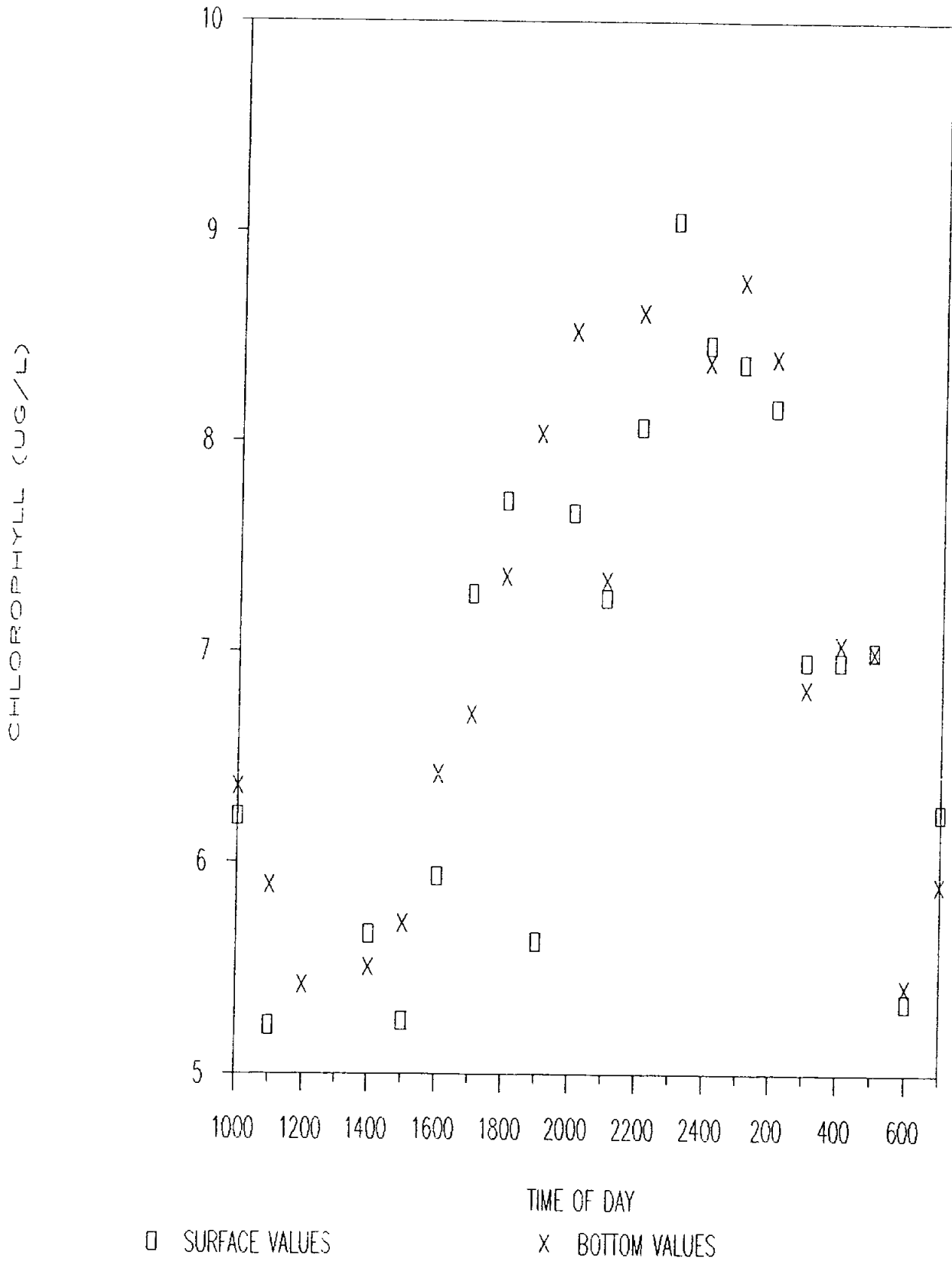
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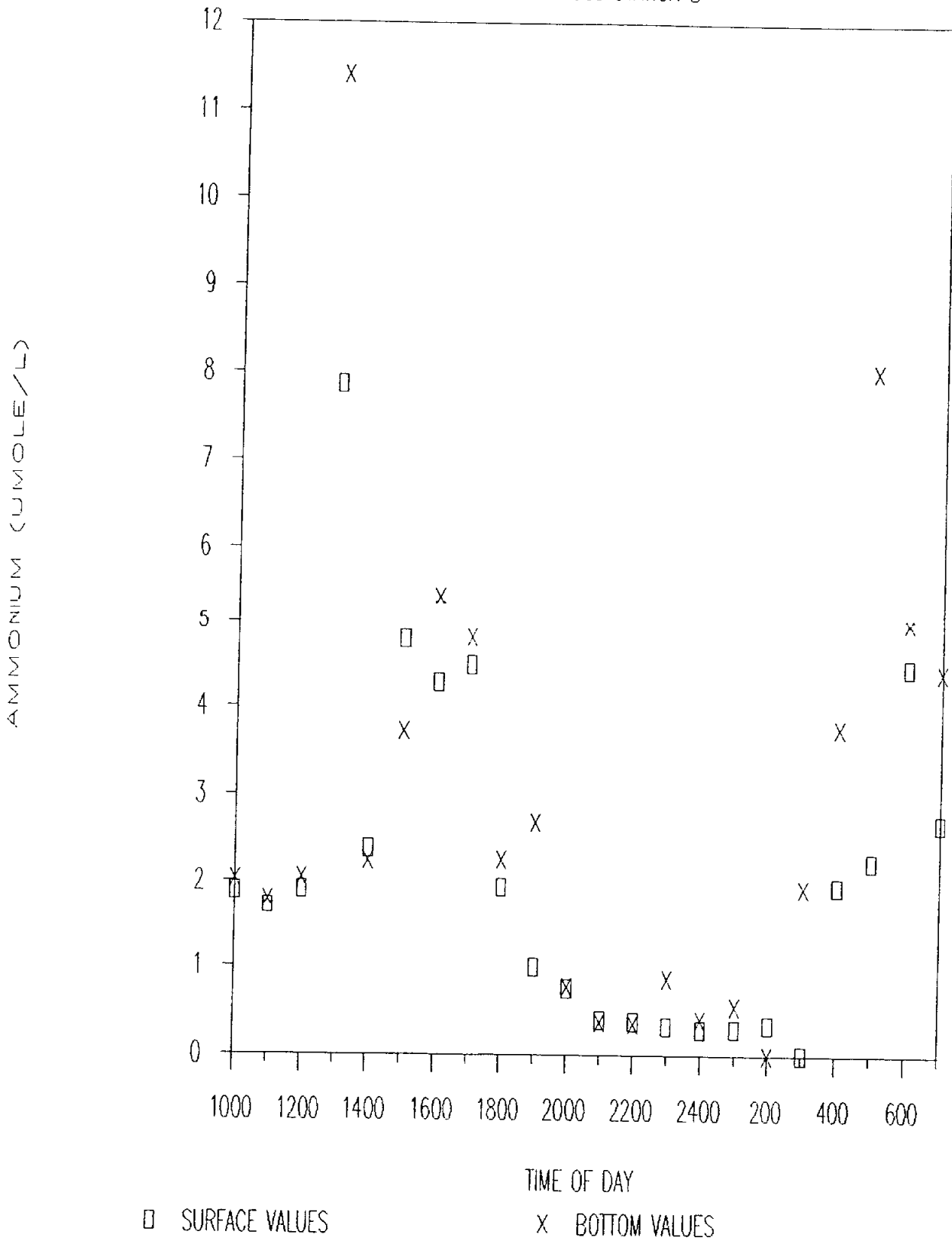
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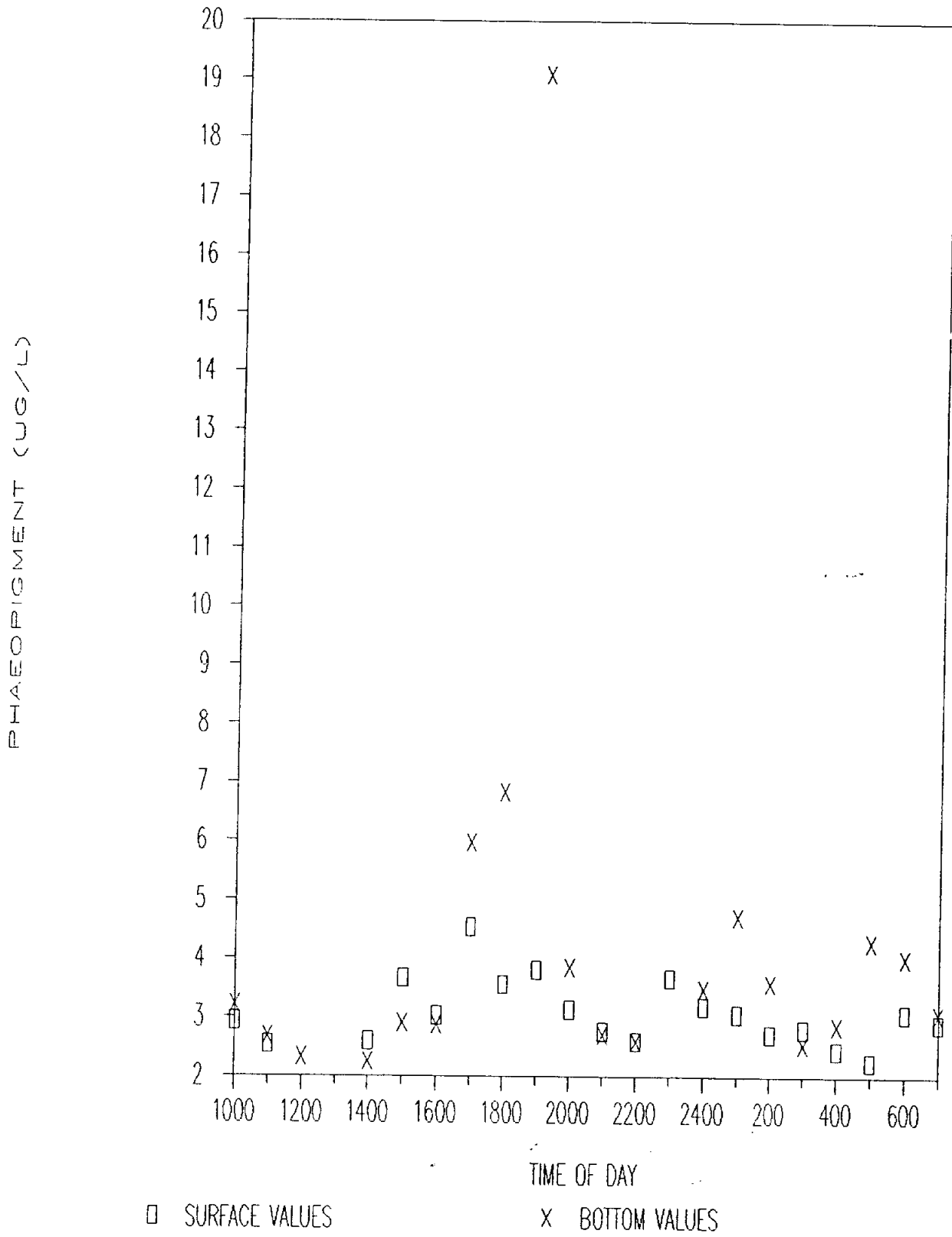
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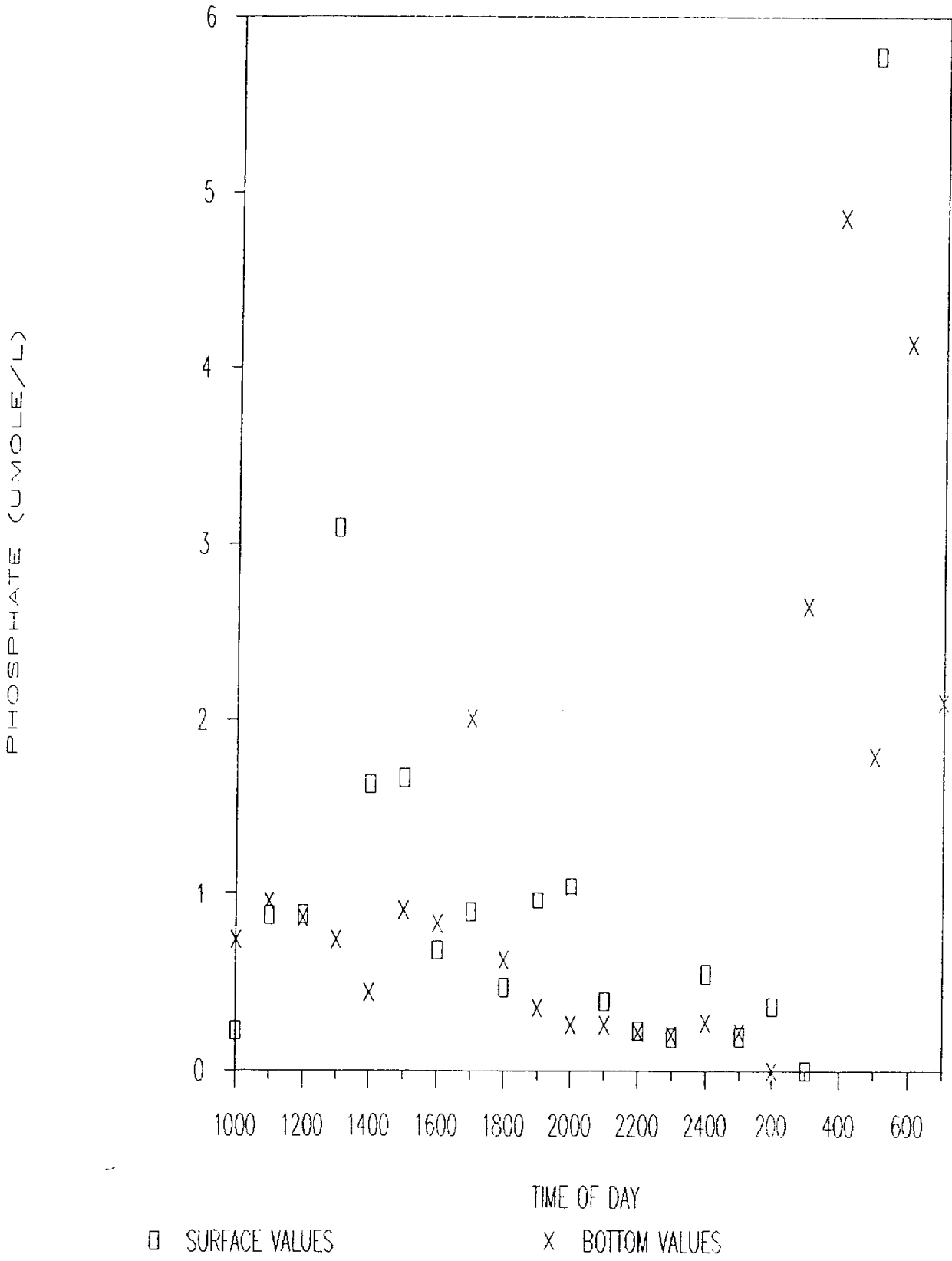


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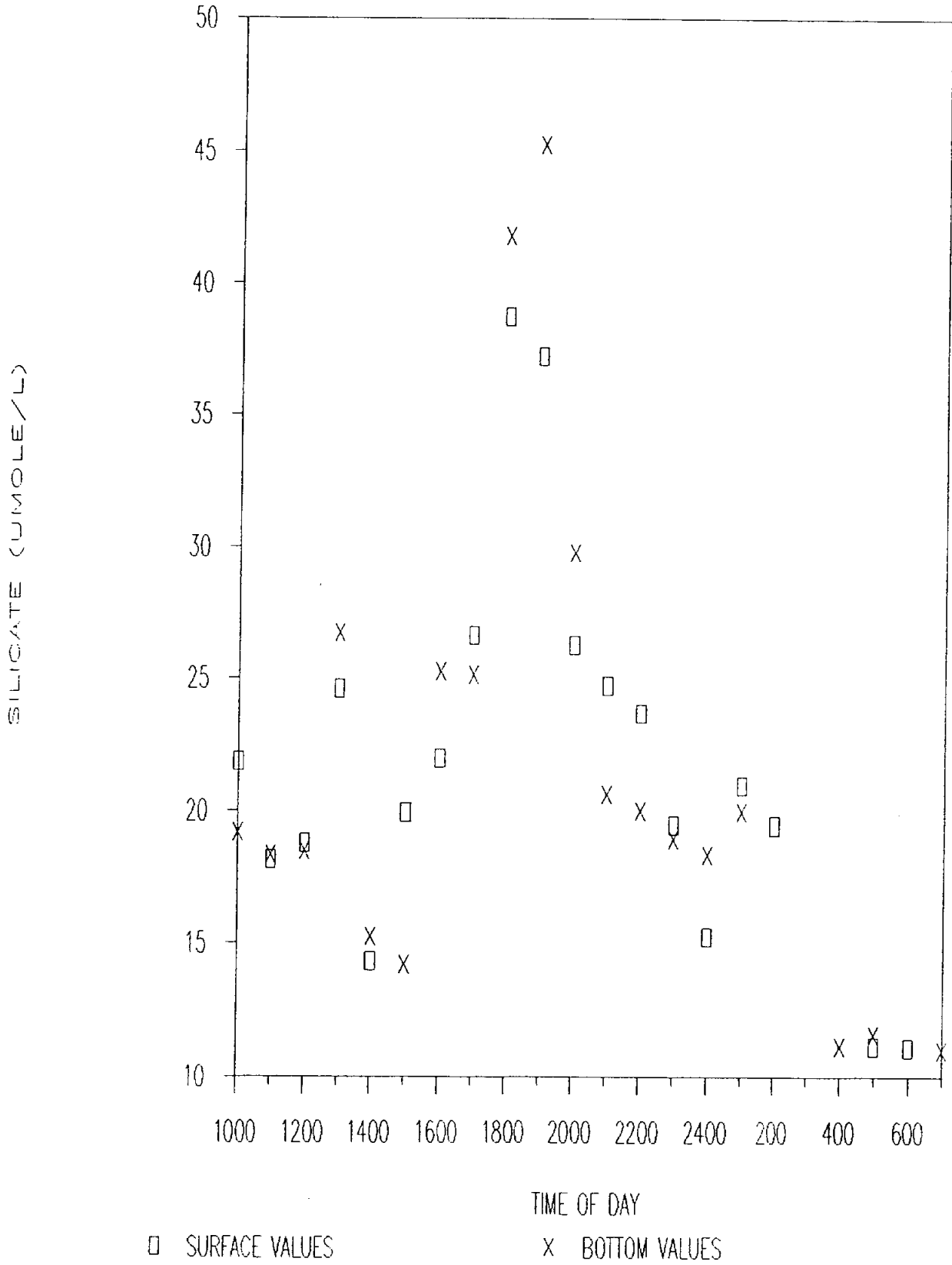


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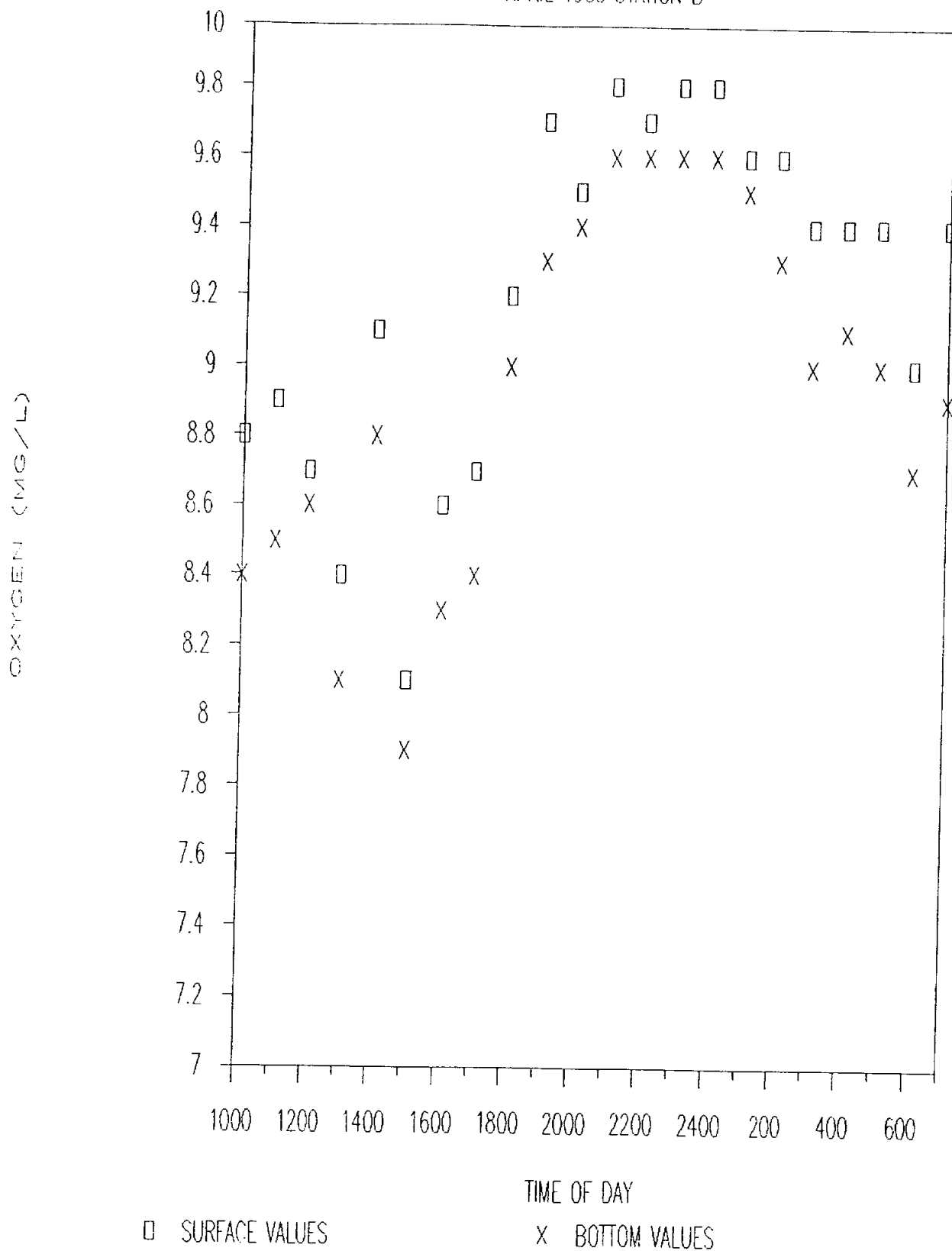
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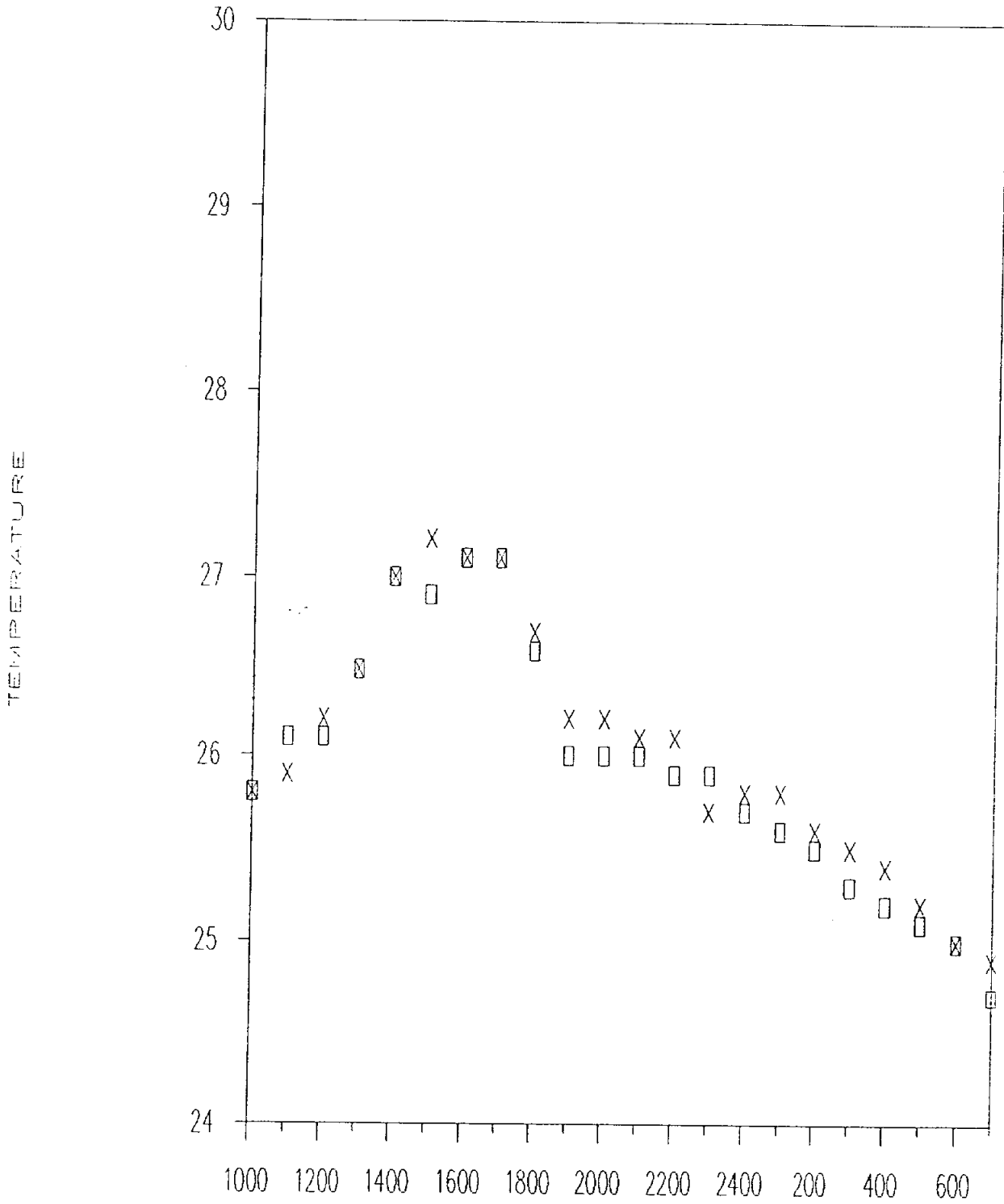
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APRIL 1988 STATION B



CORPUS CHRISTI/NUECES BAYS

MAY 1988 STATION B

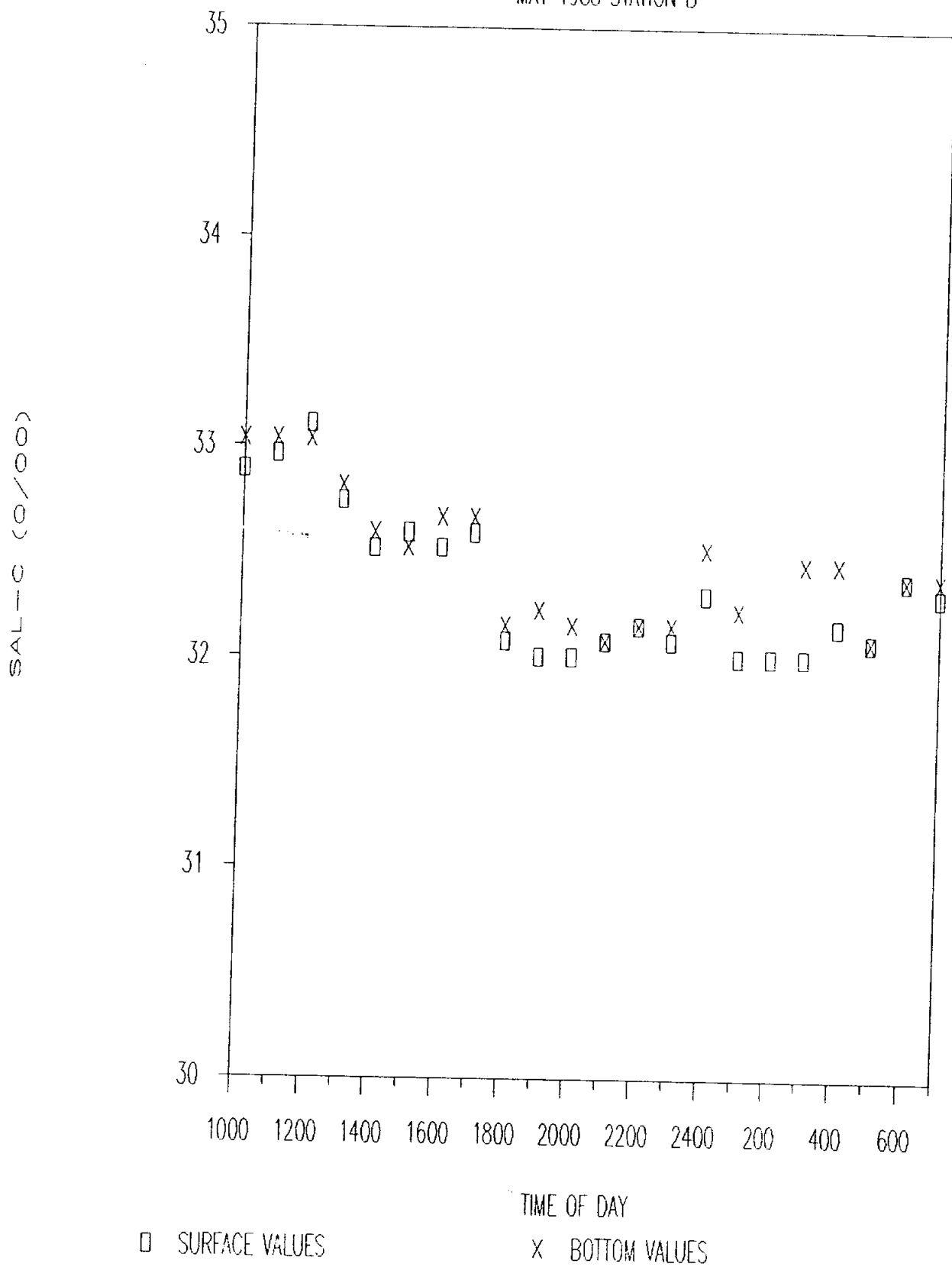


□ SURFACE VALUES

X BOTTOM VALUES

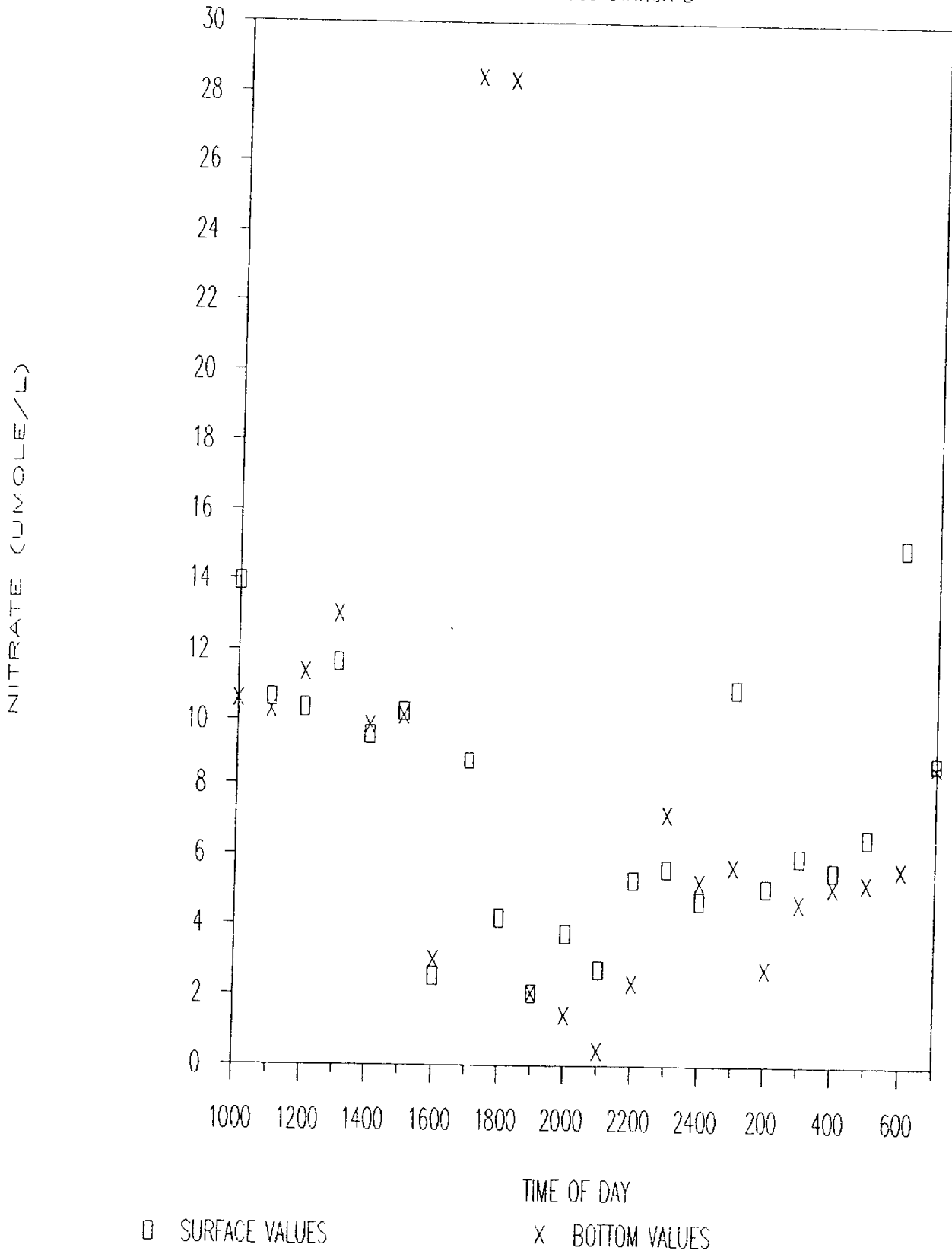
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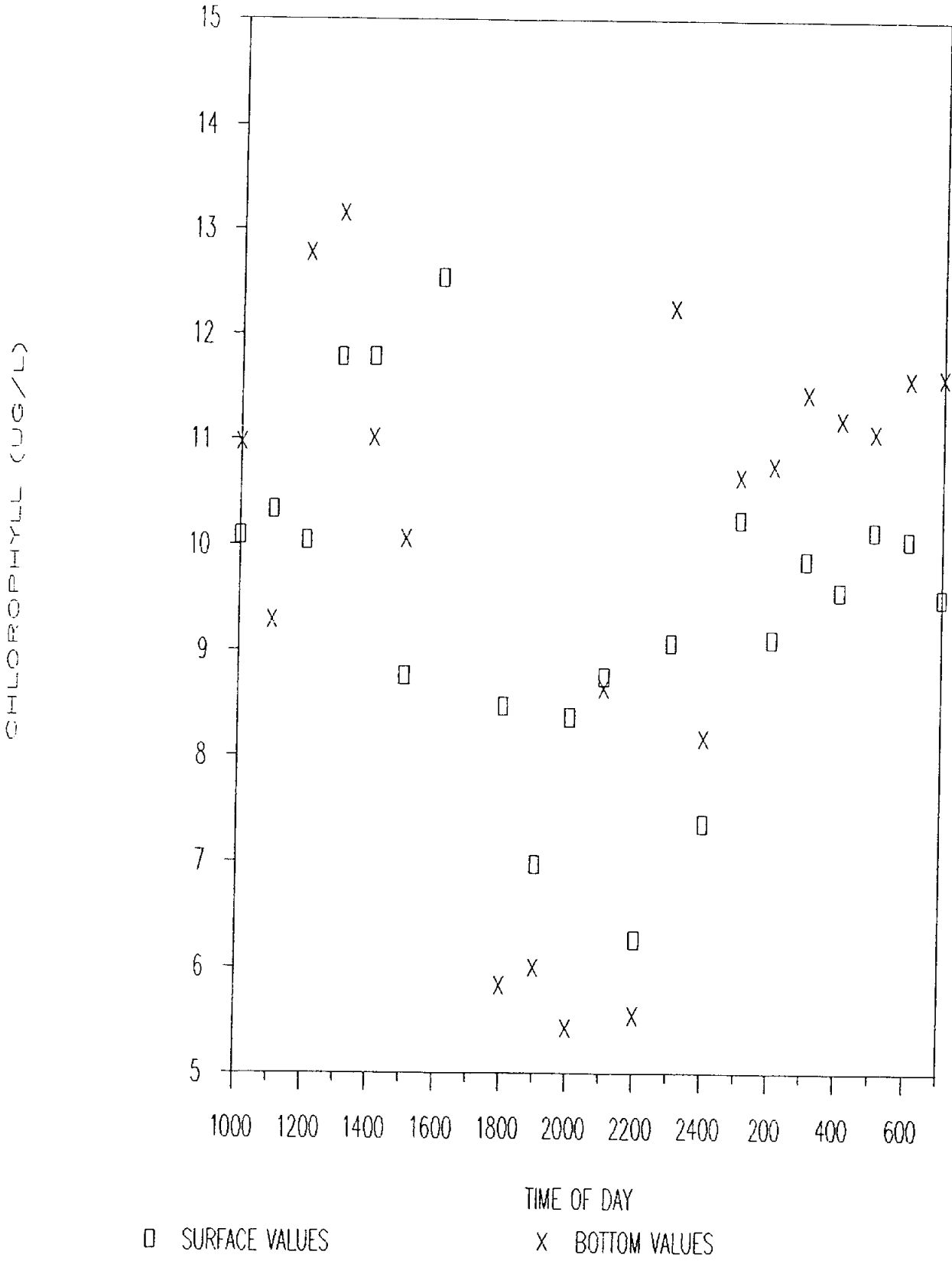
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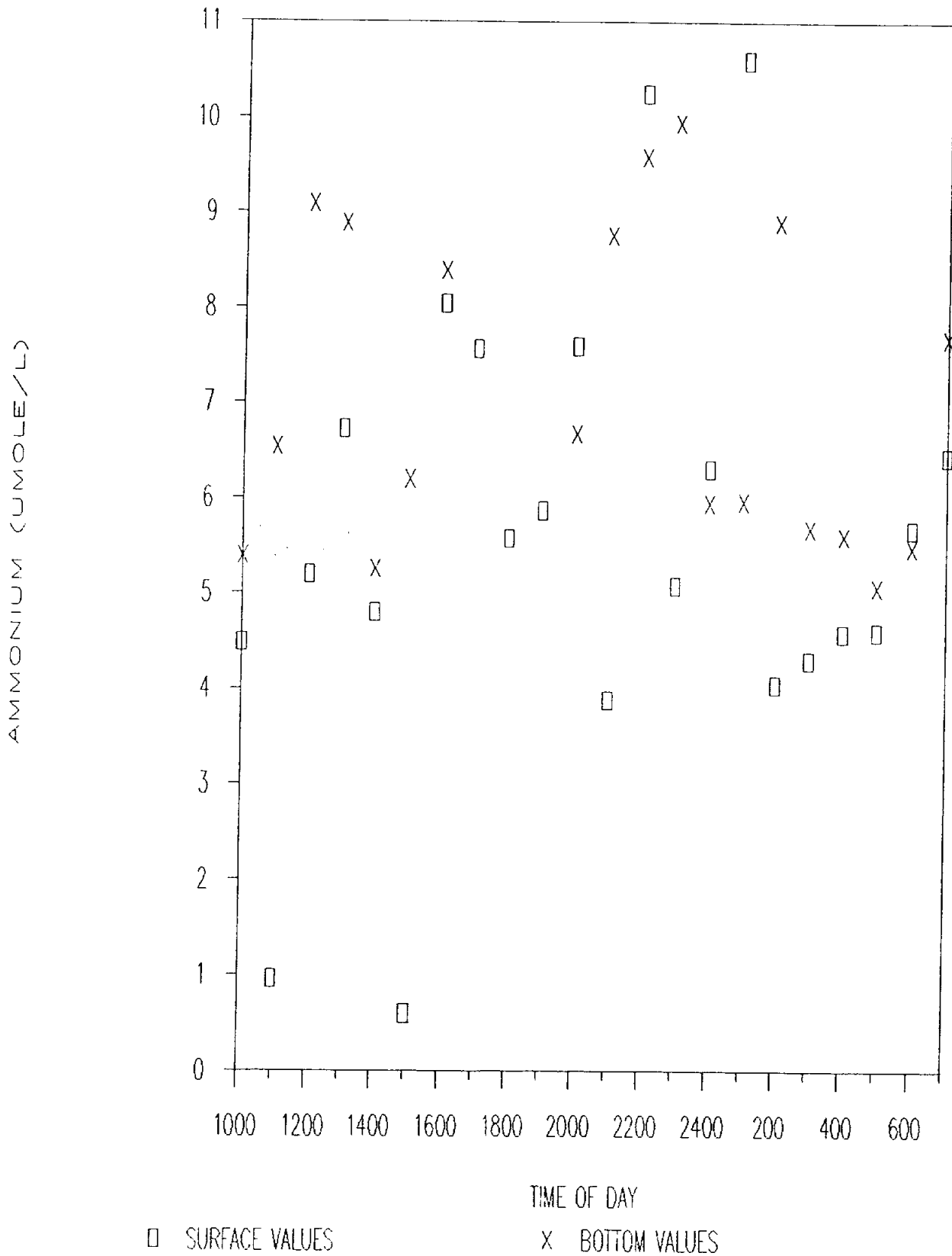
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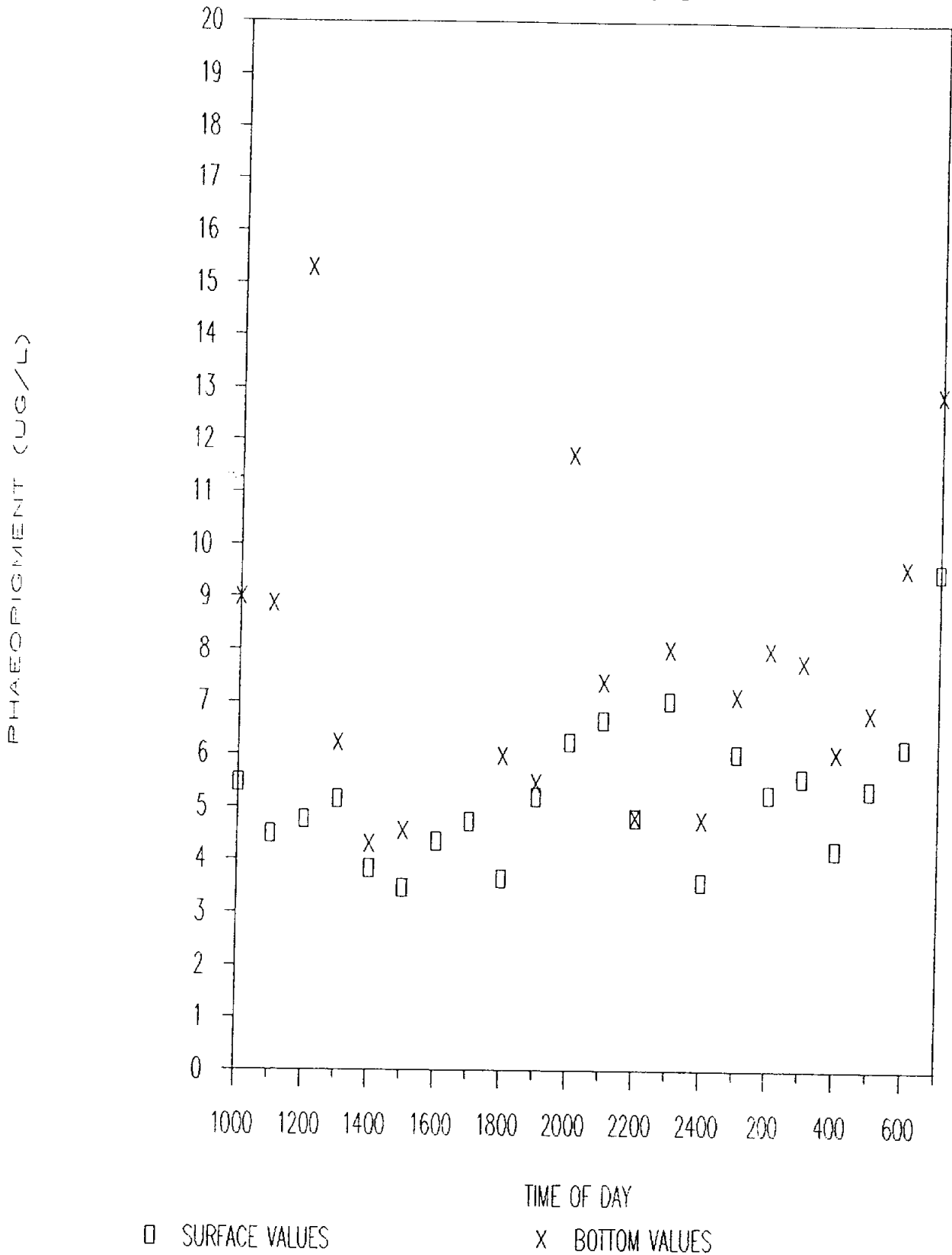
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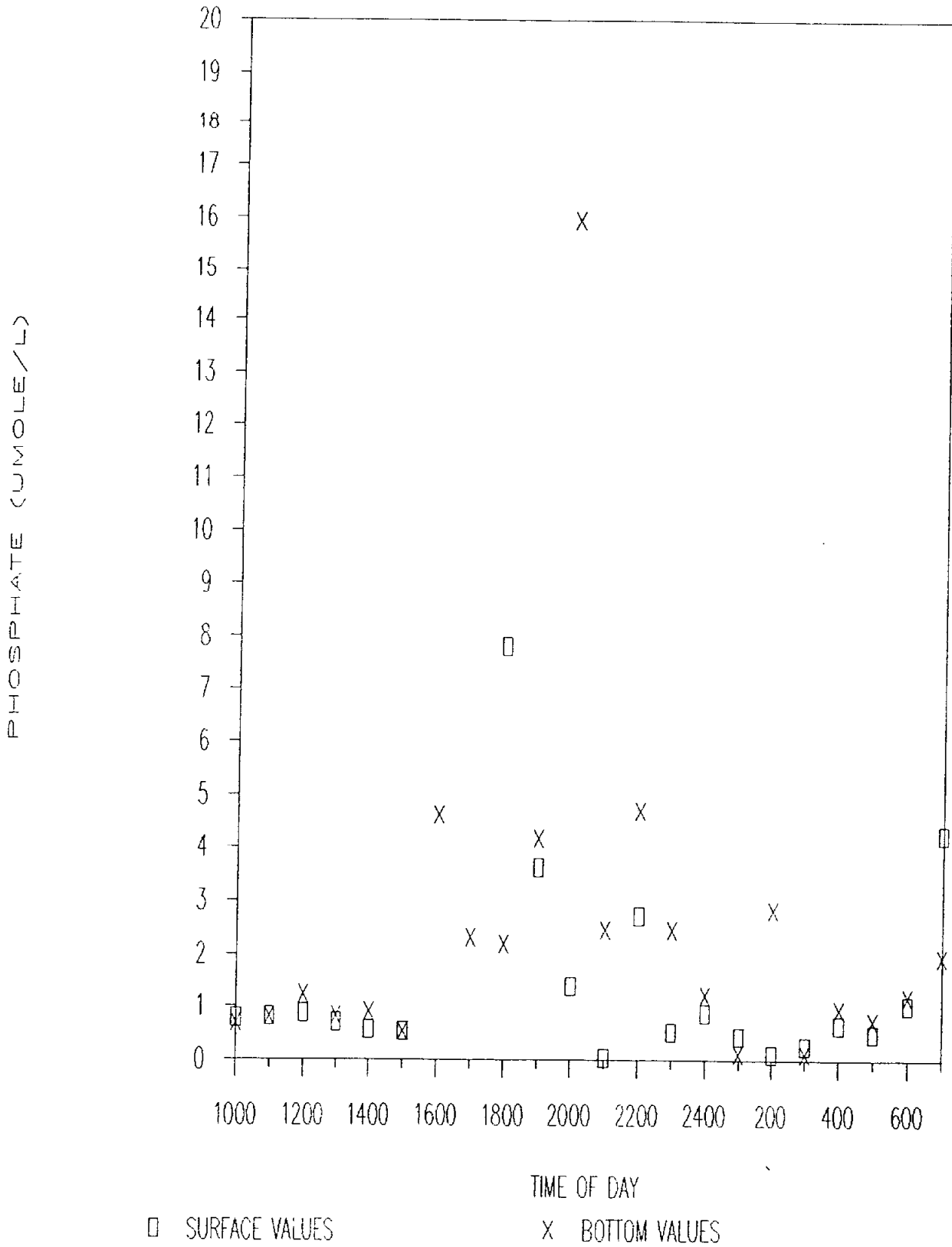
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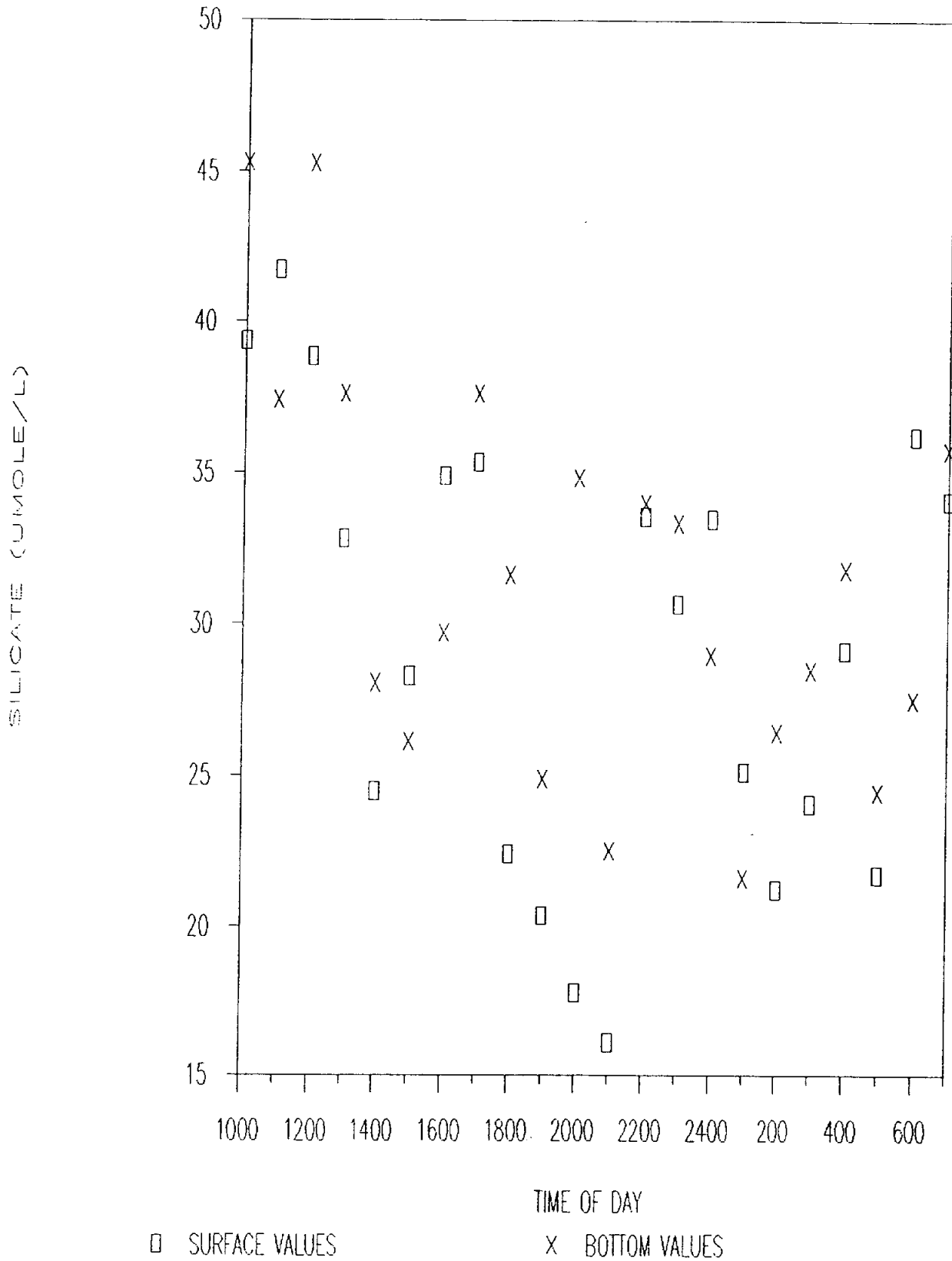
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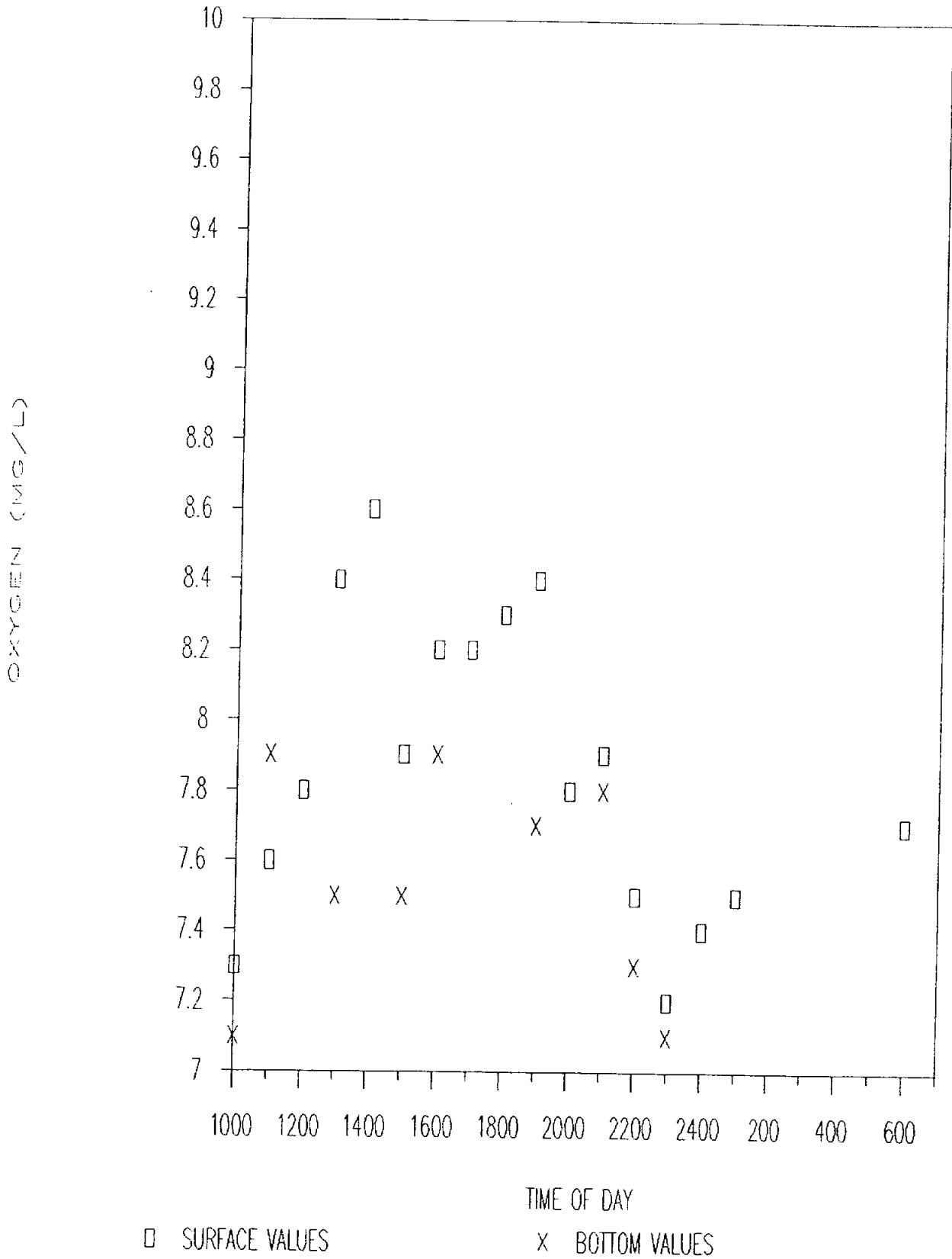
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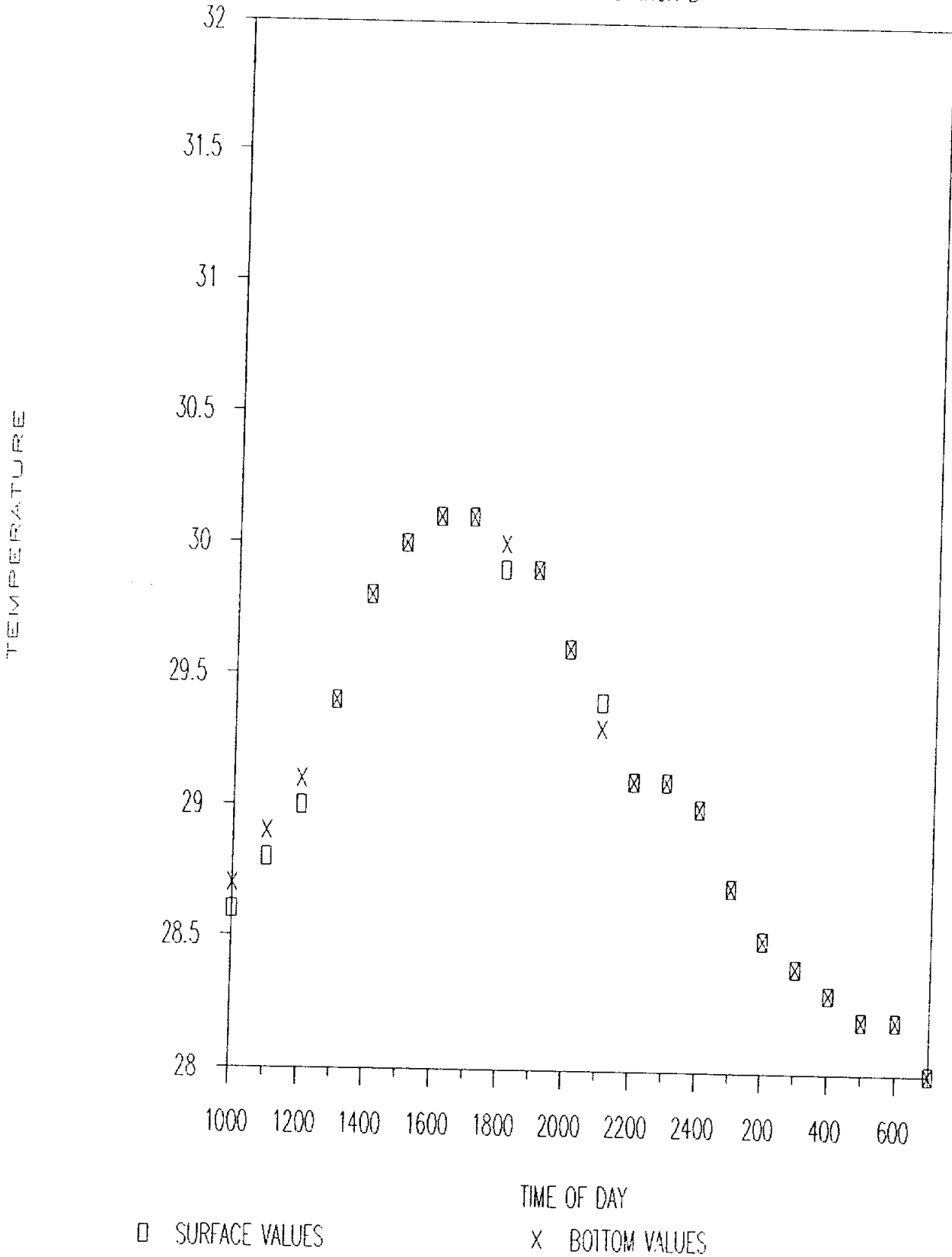
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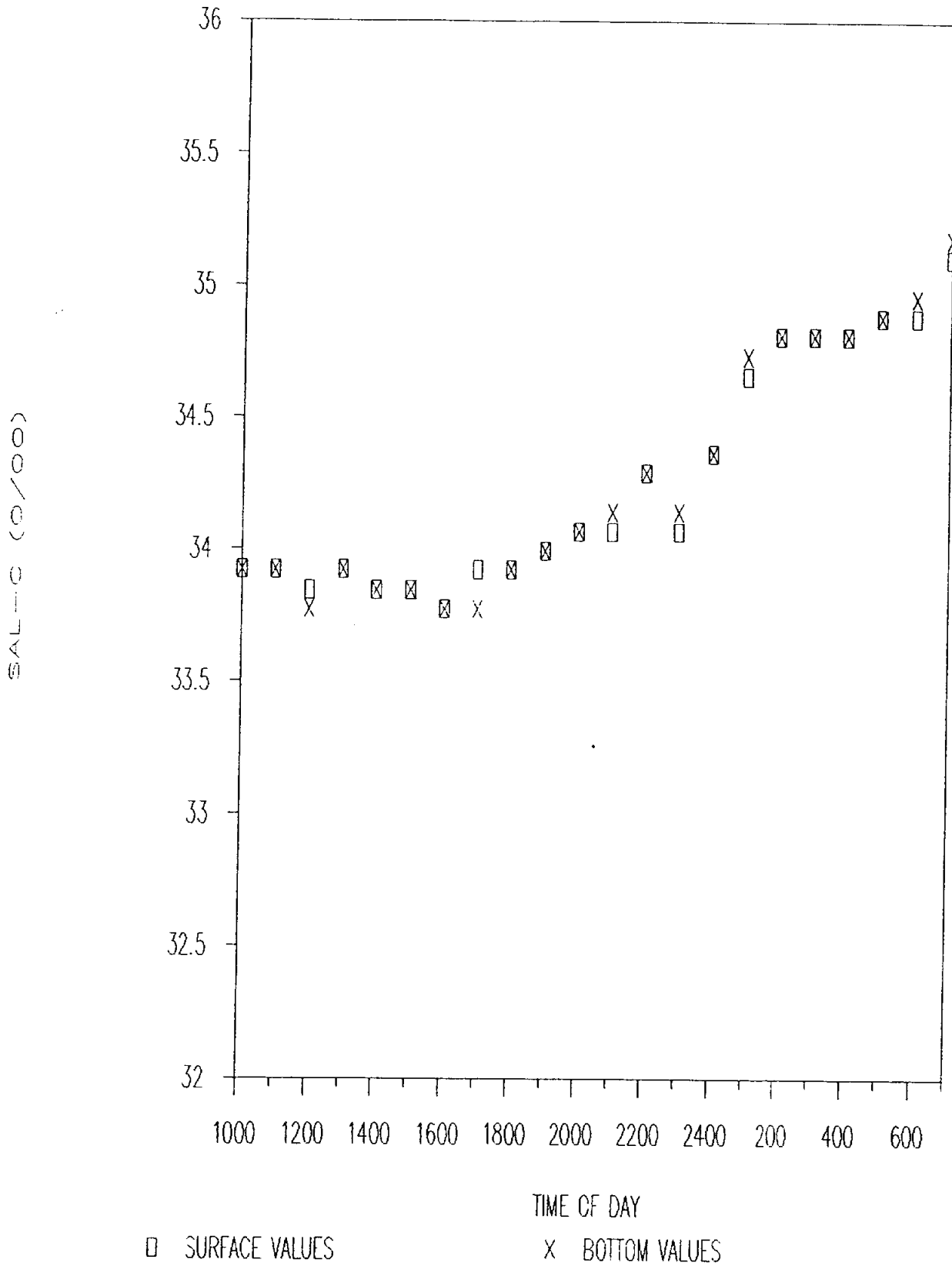
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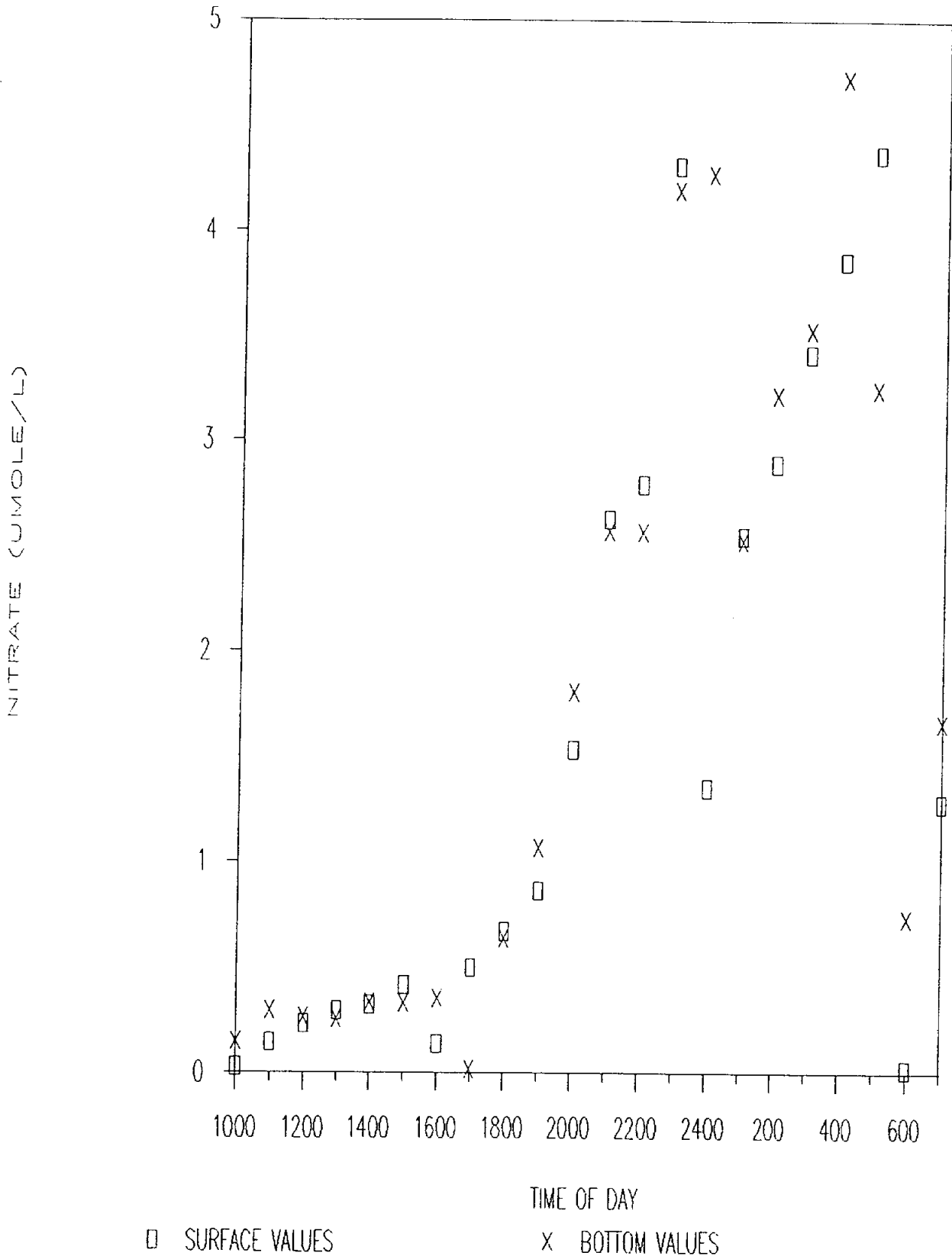
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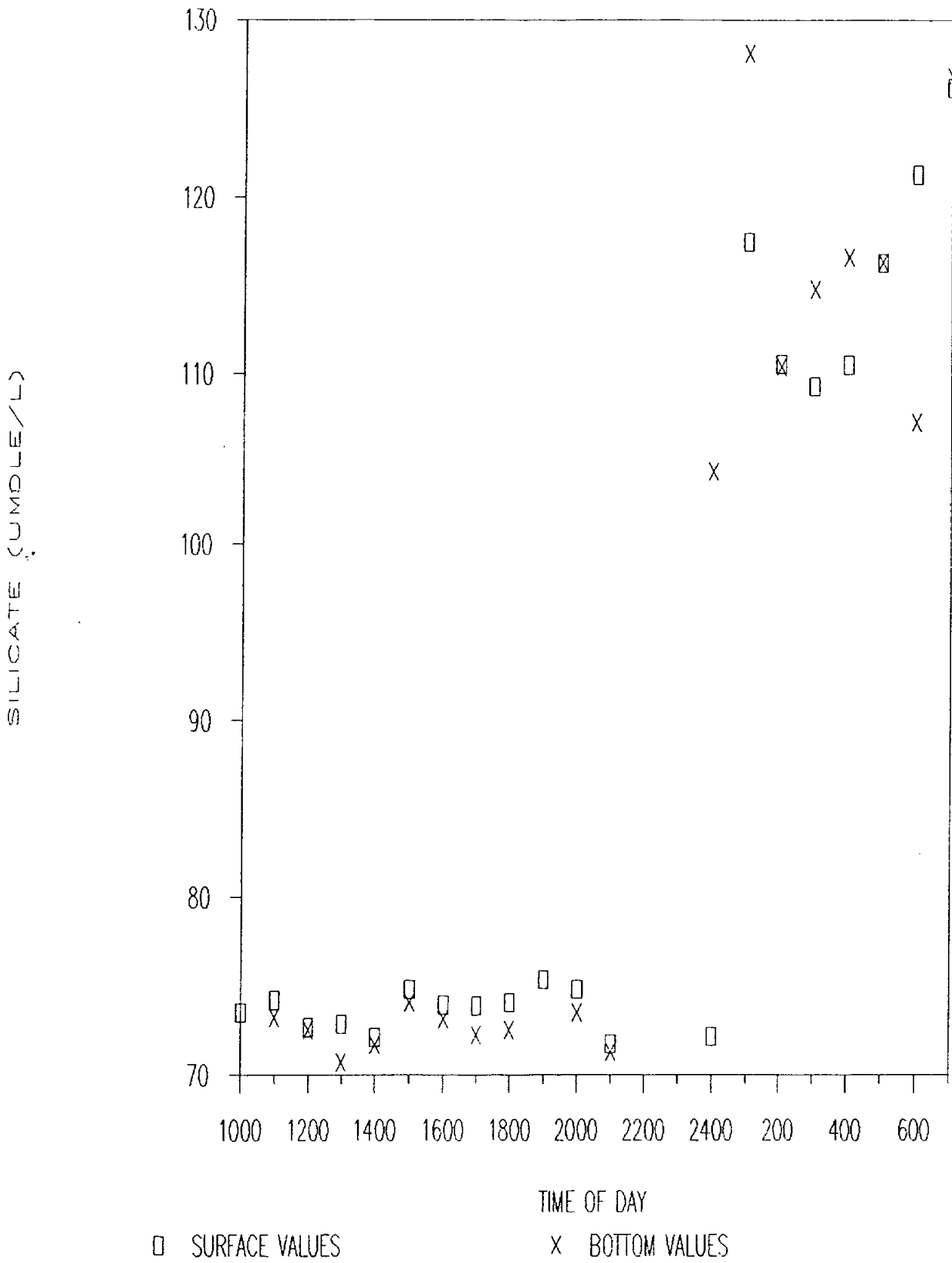
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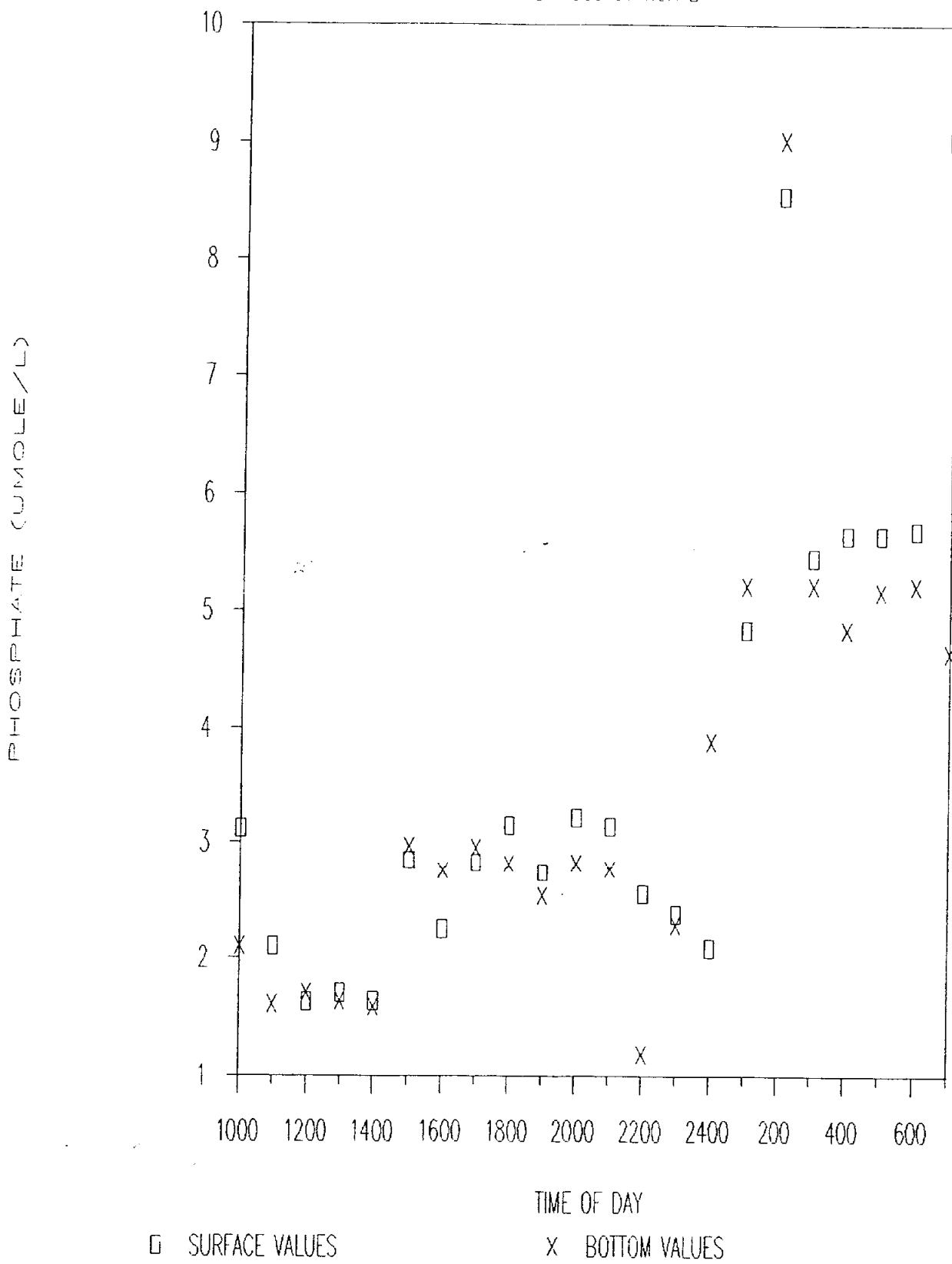
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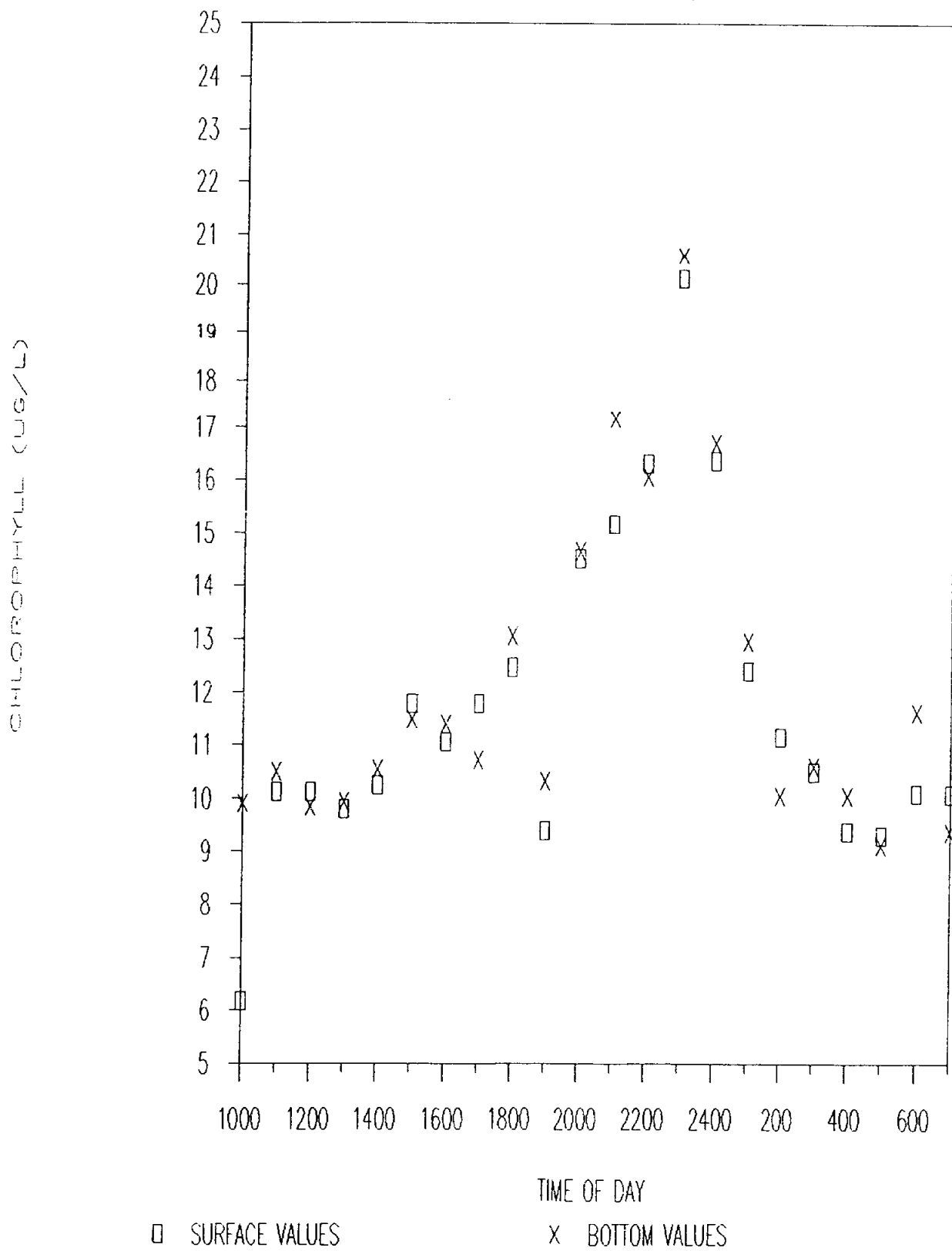
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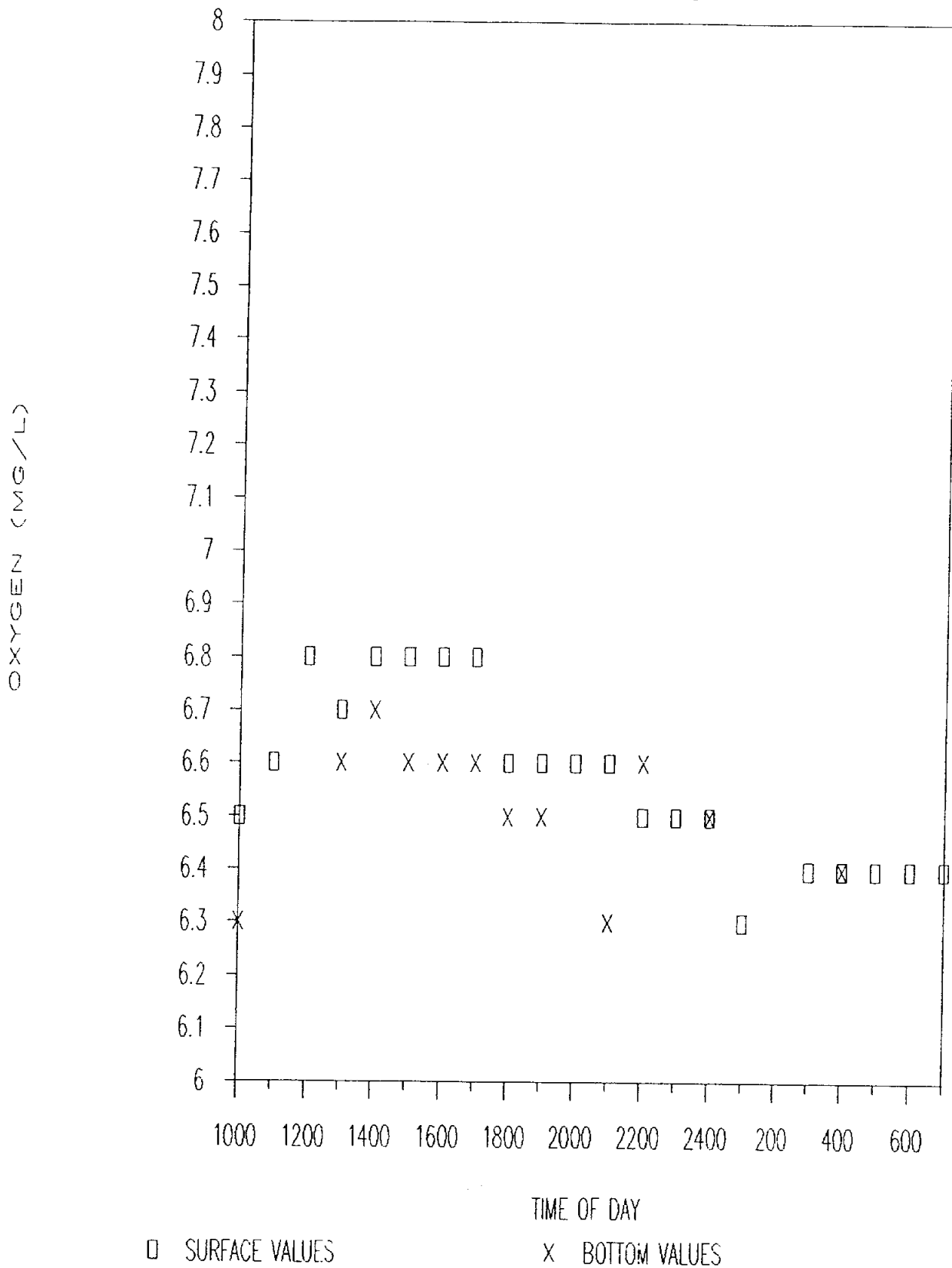
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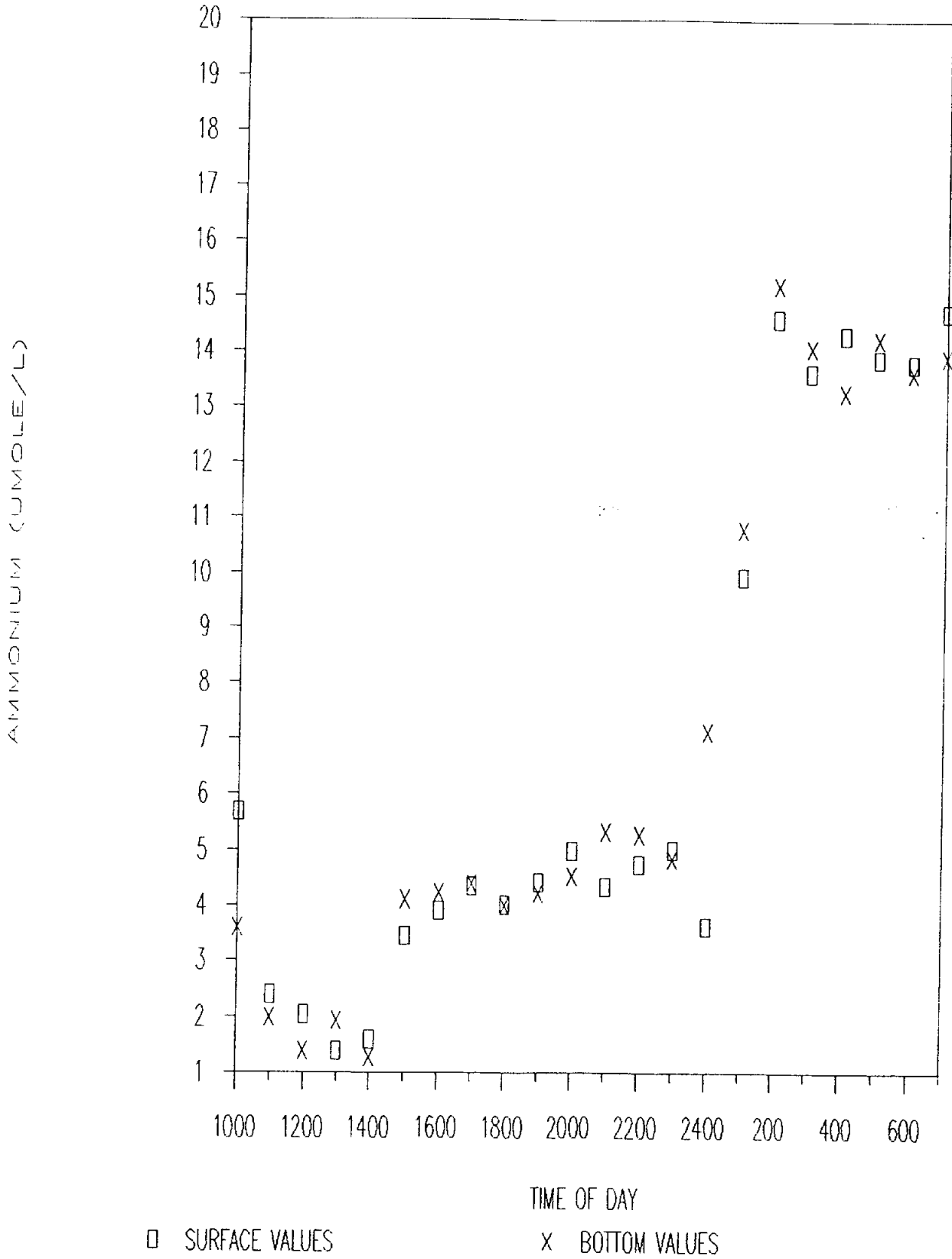
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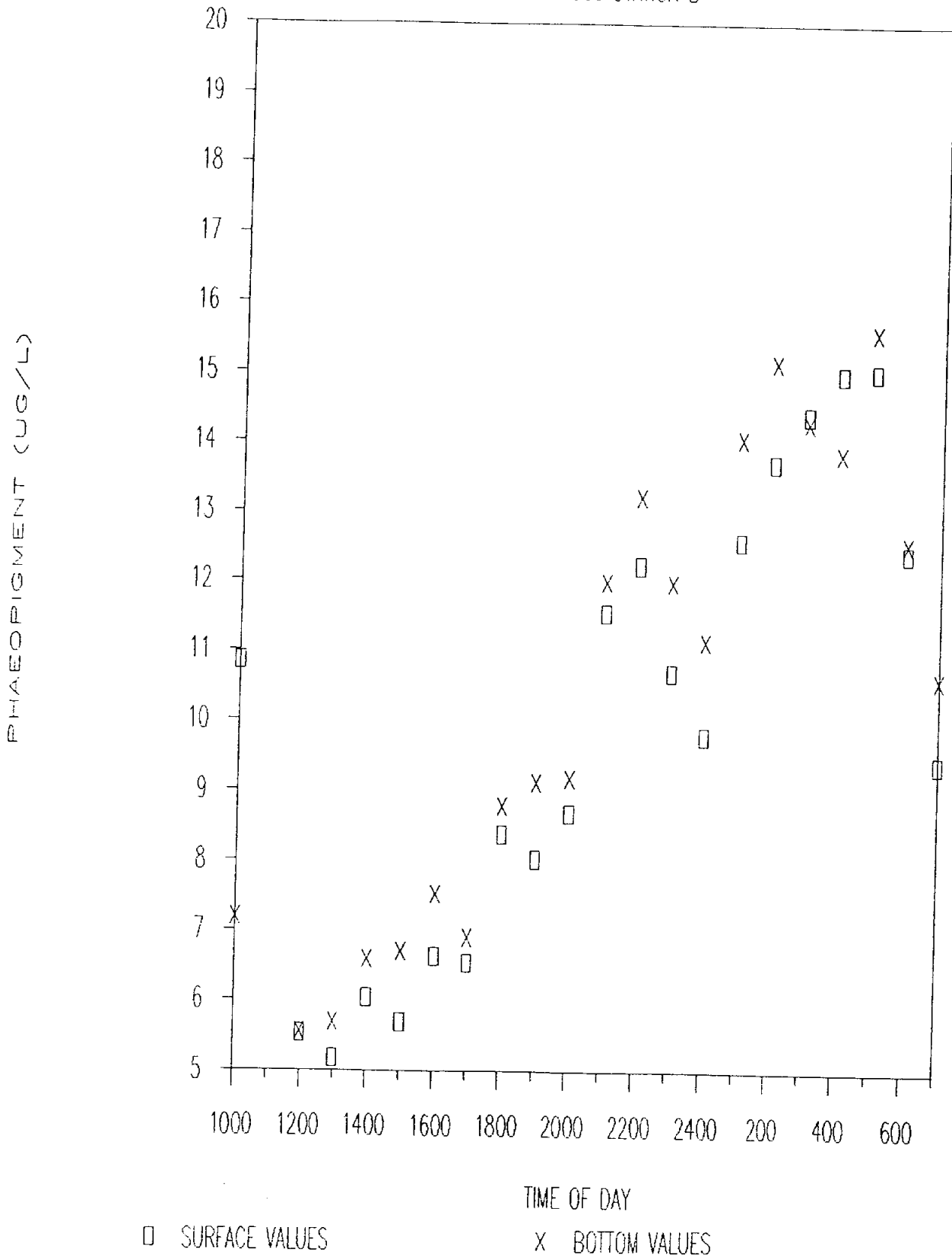
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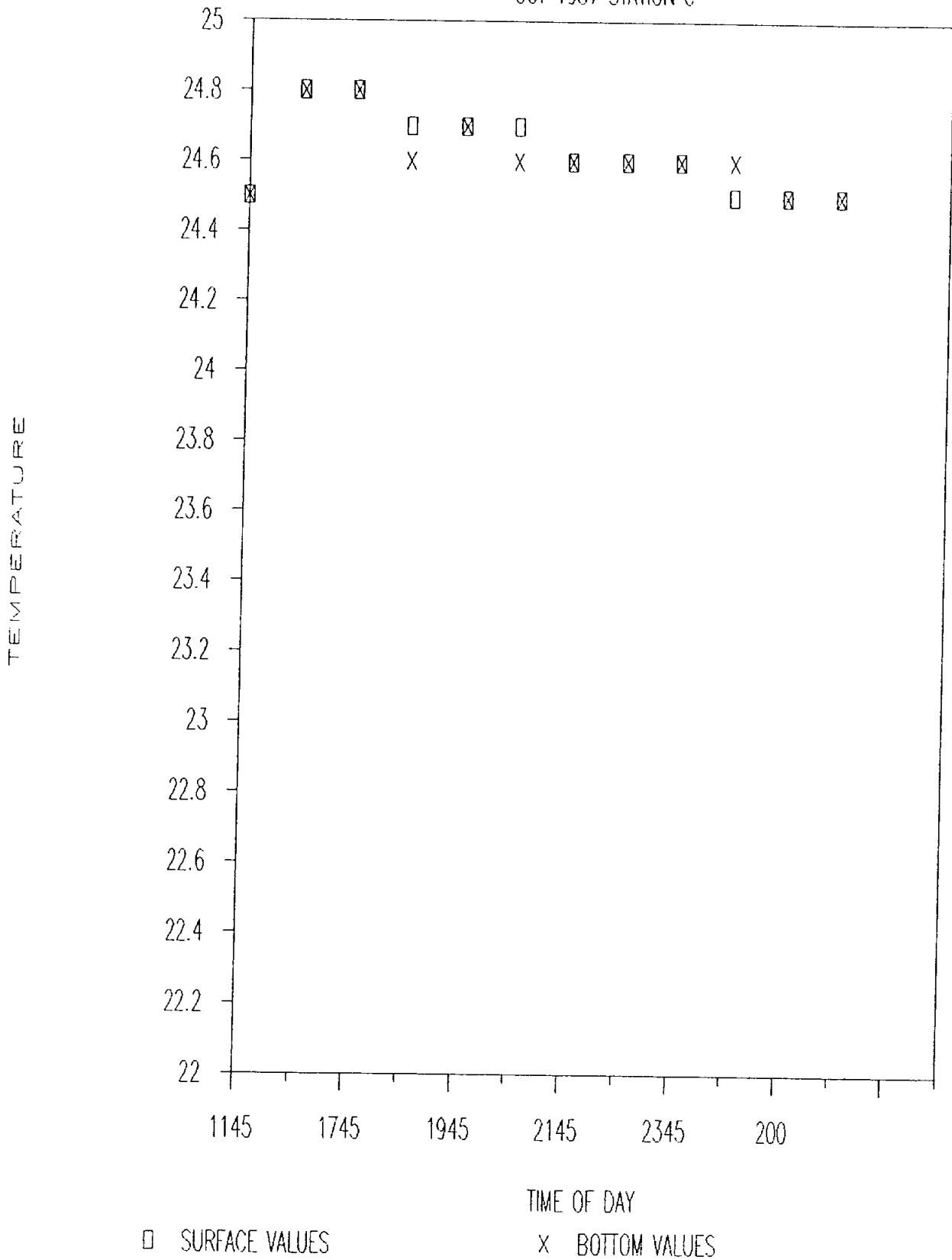
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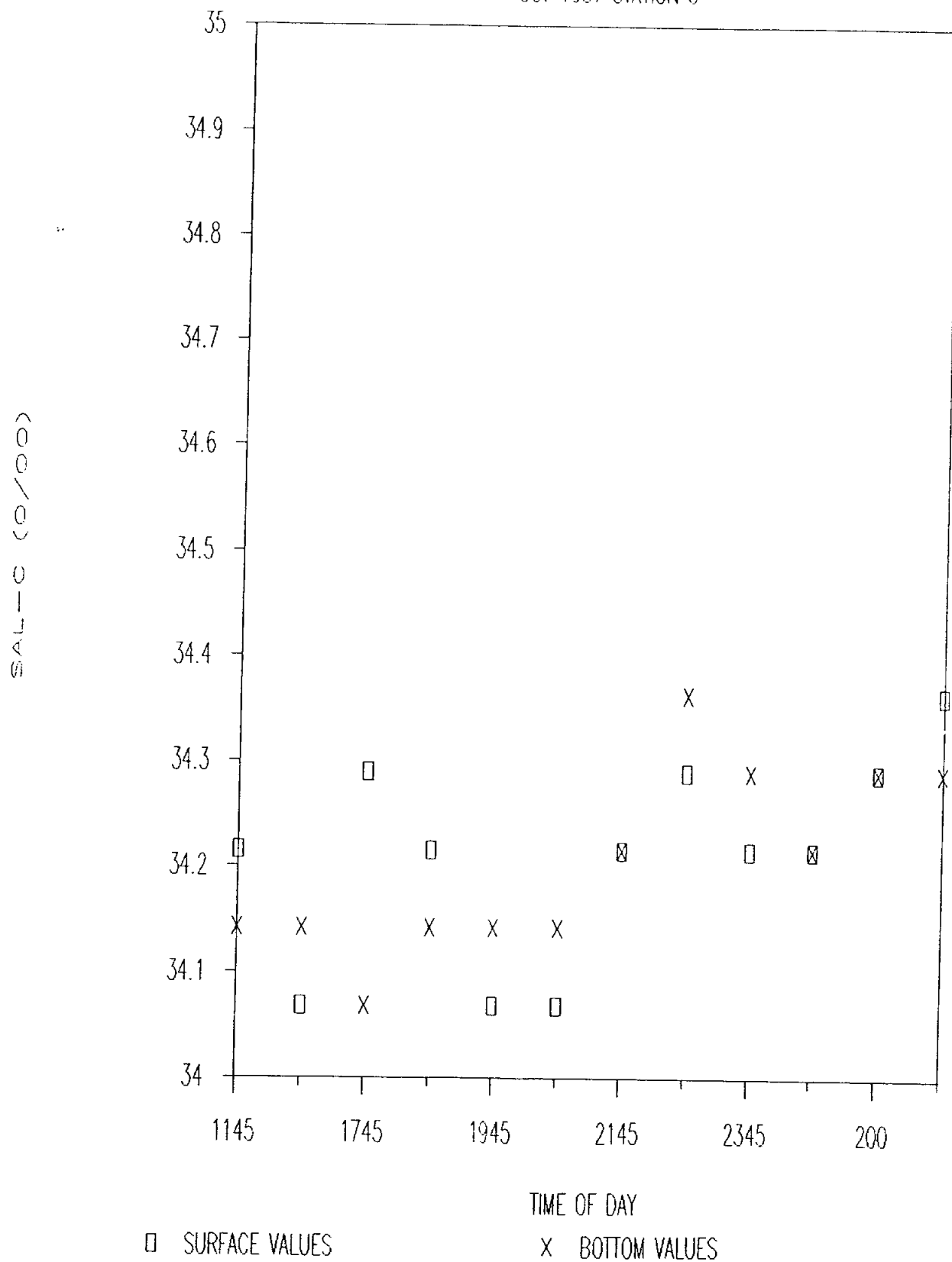
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OCT 1987 STATION C



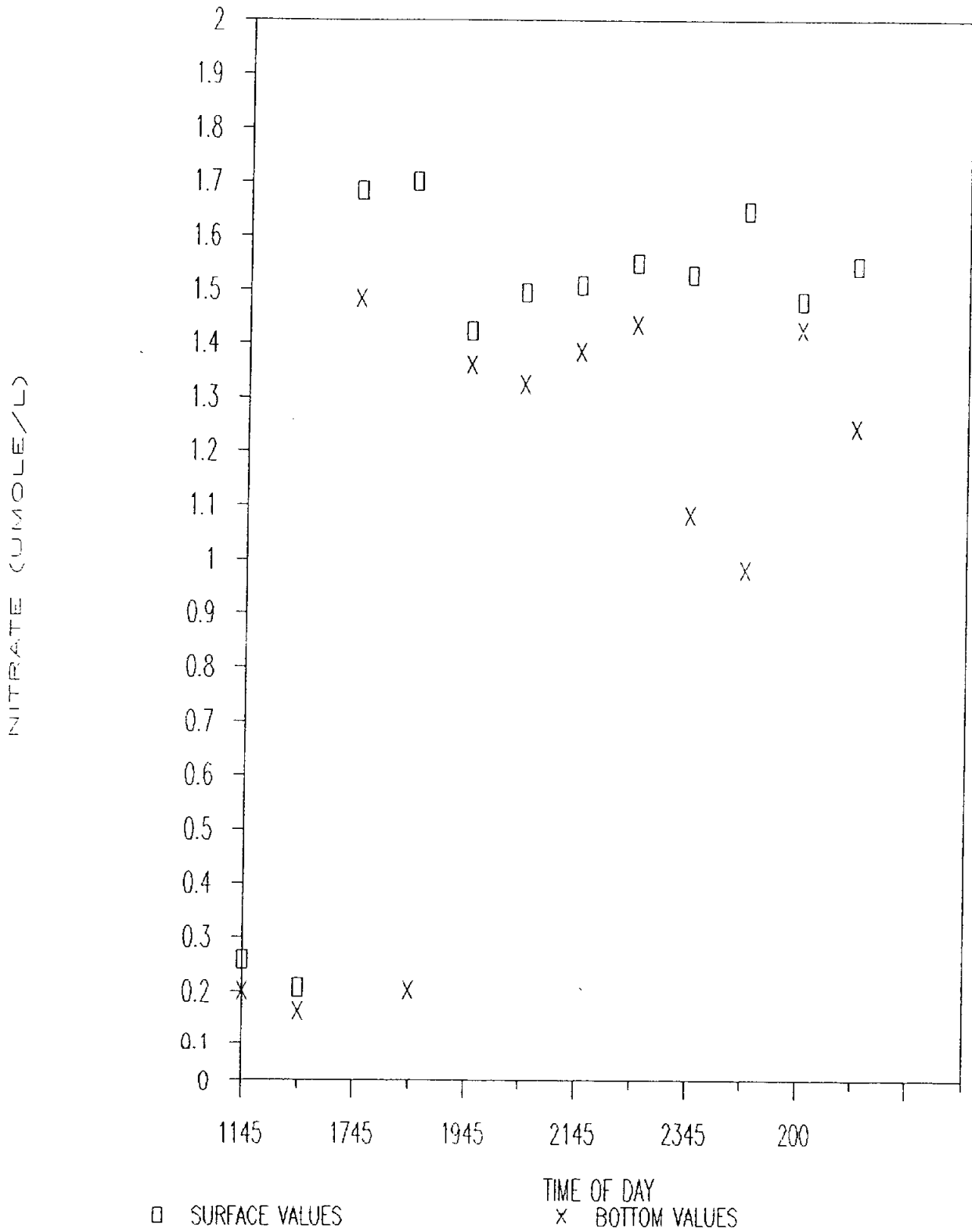
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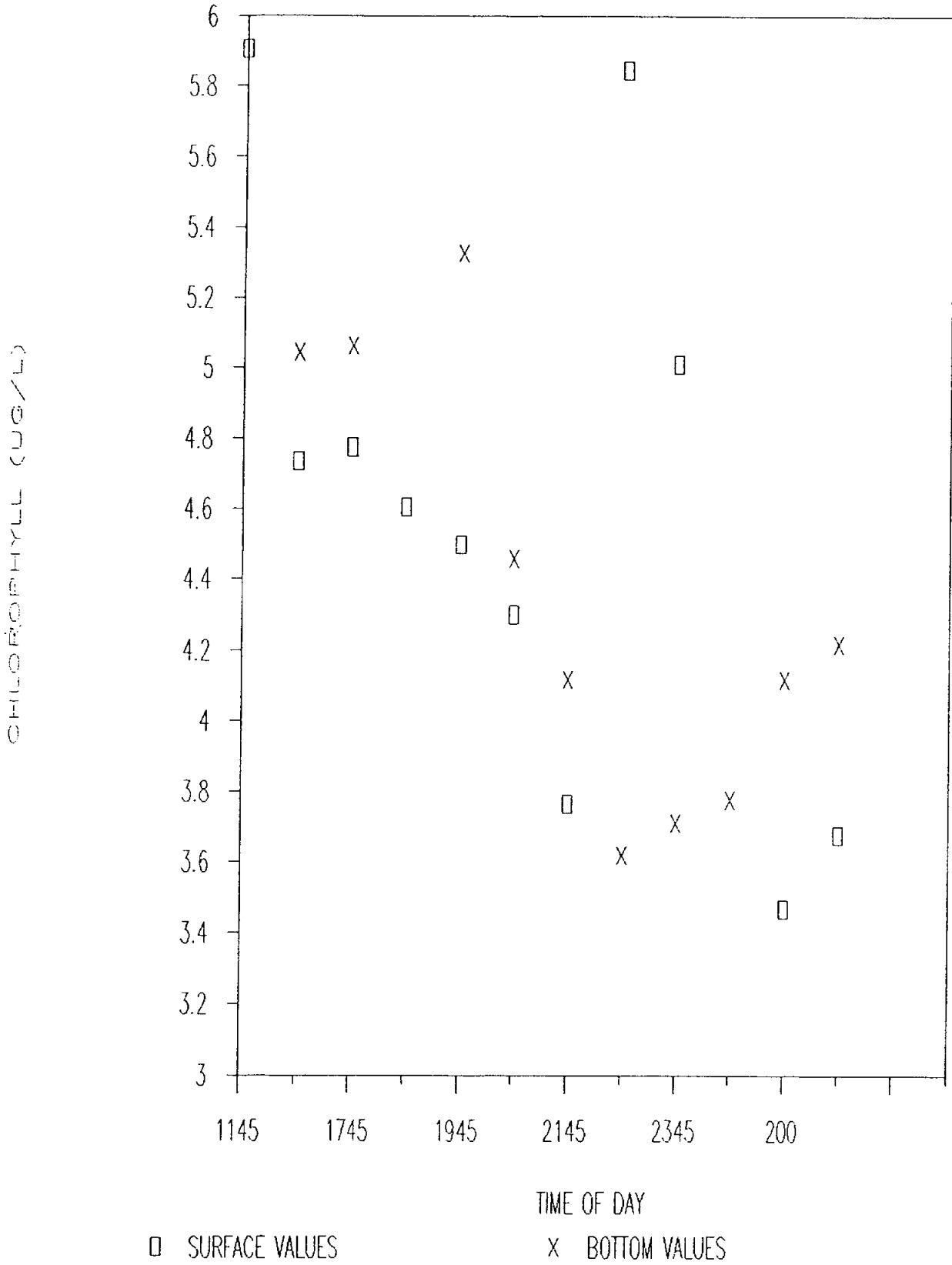
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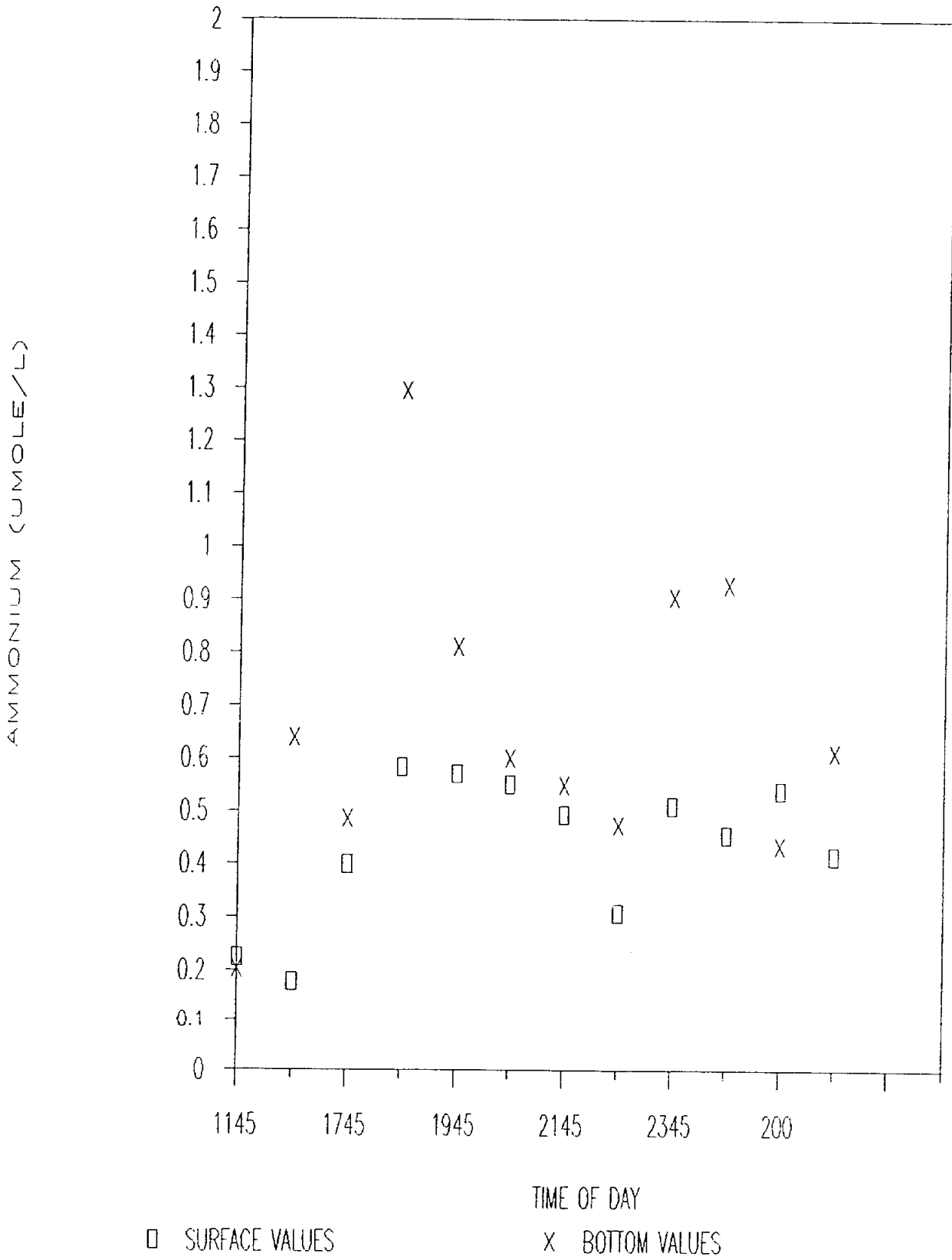
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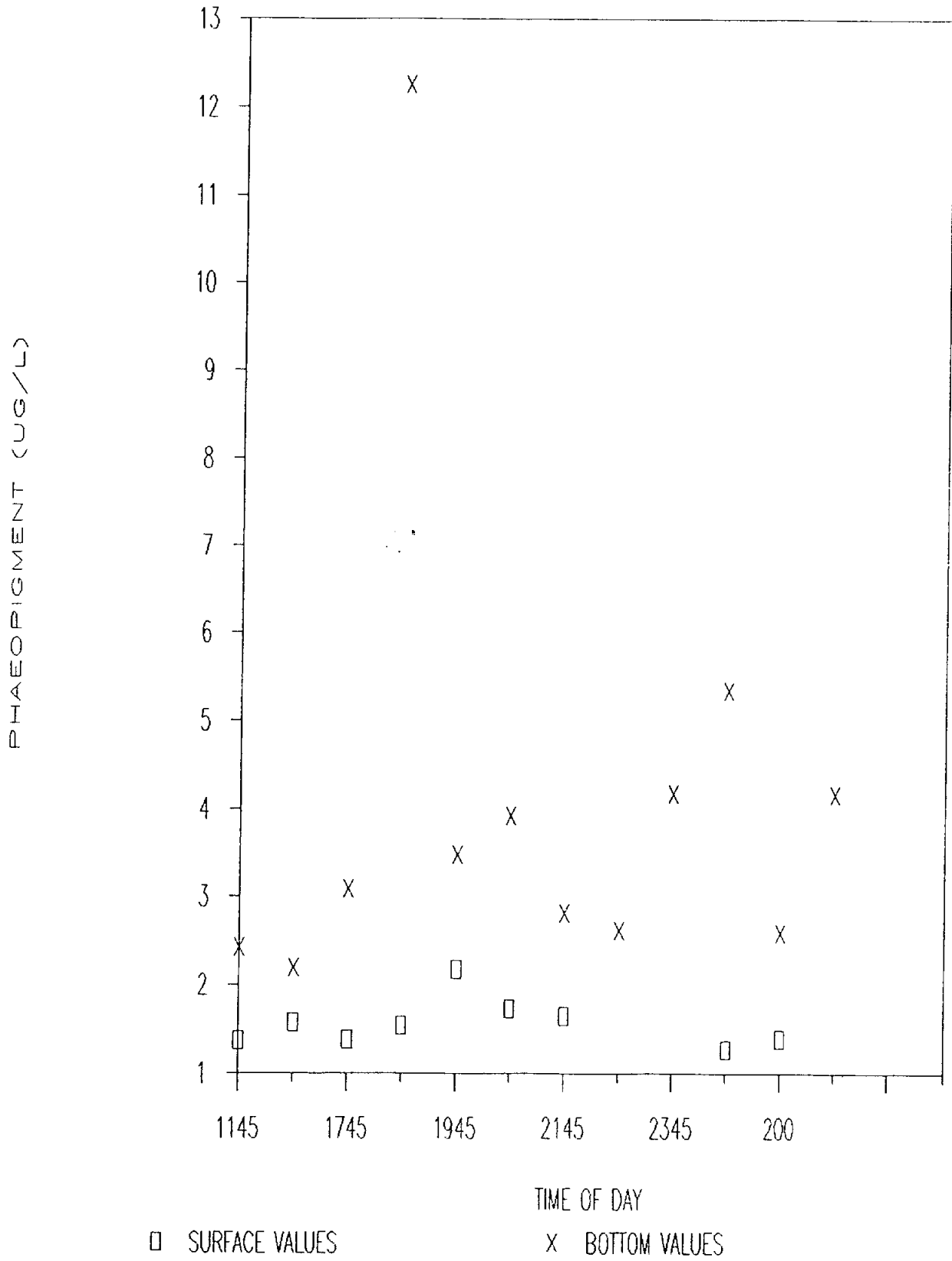
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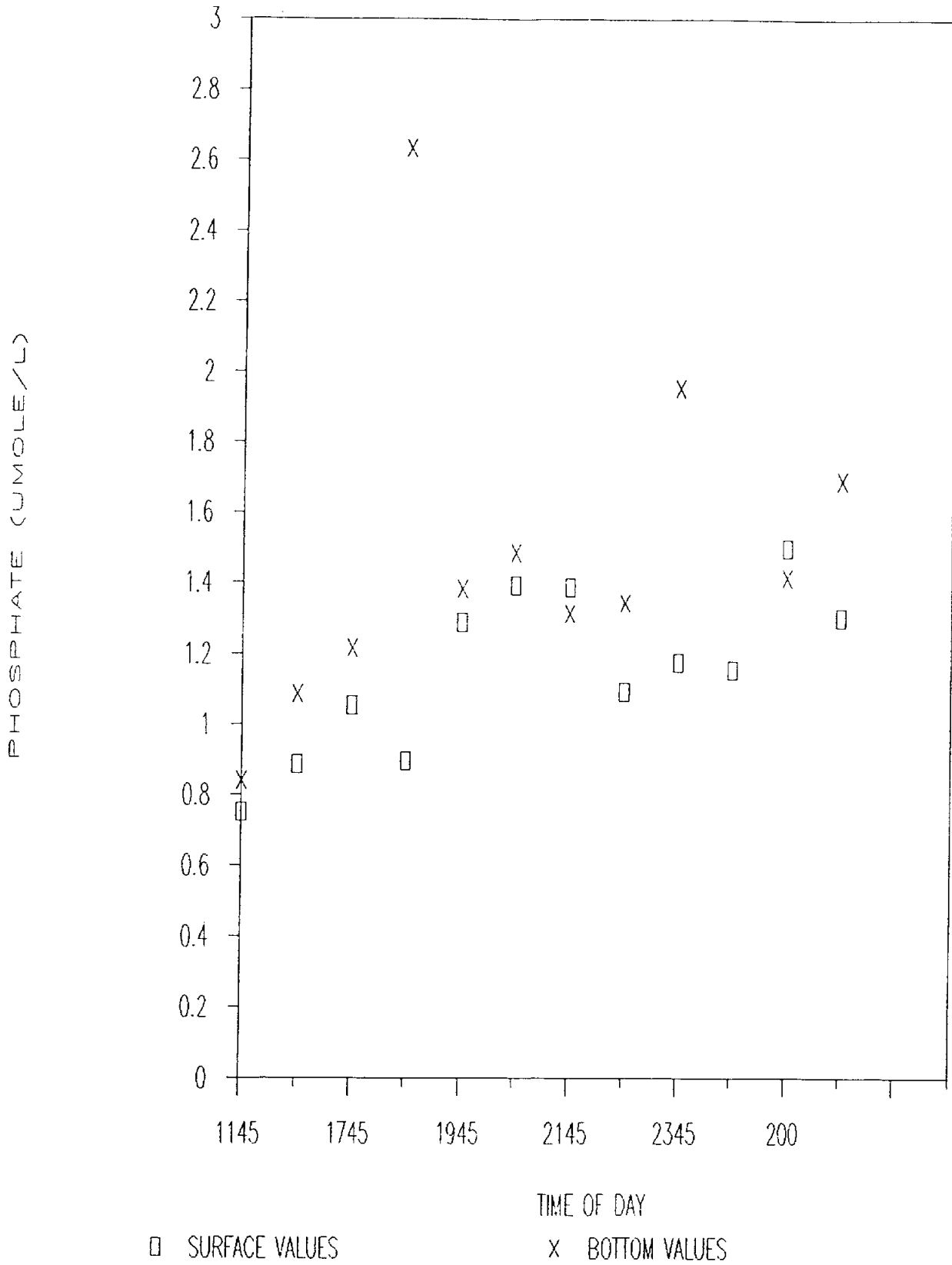
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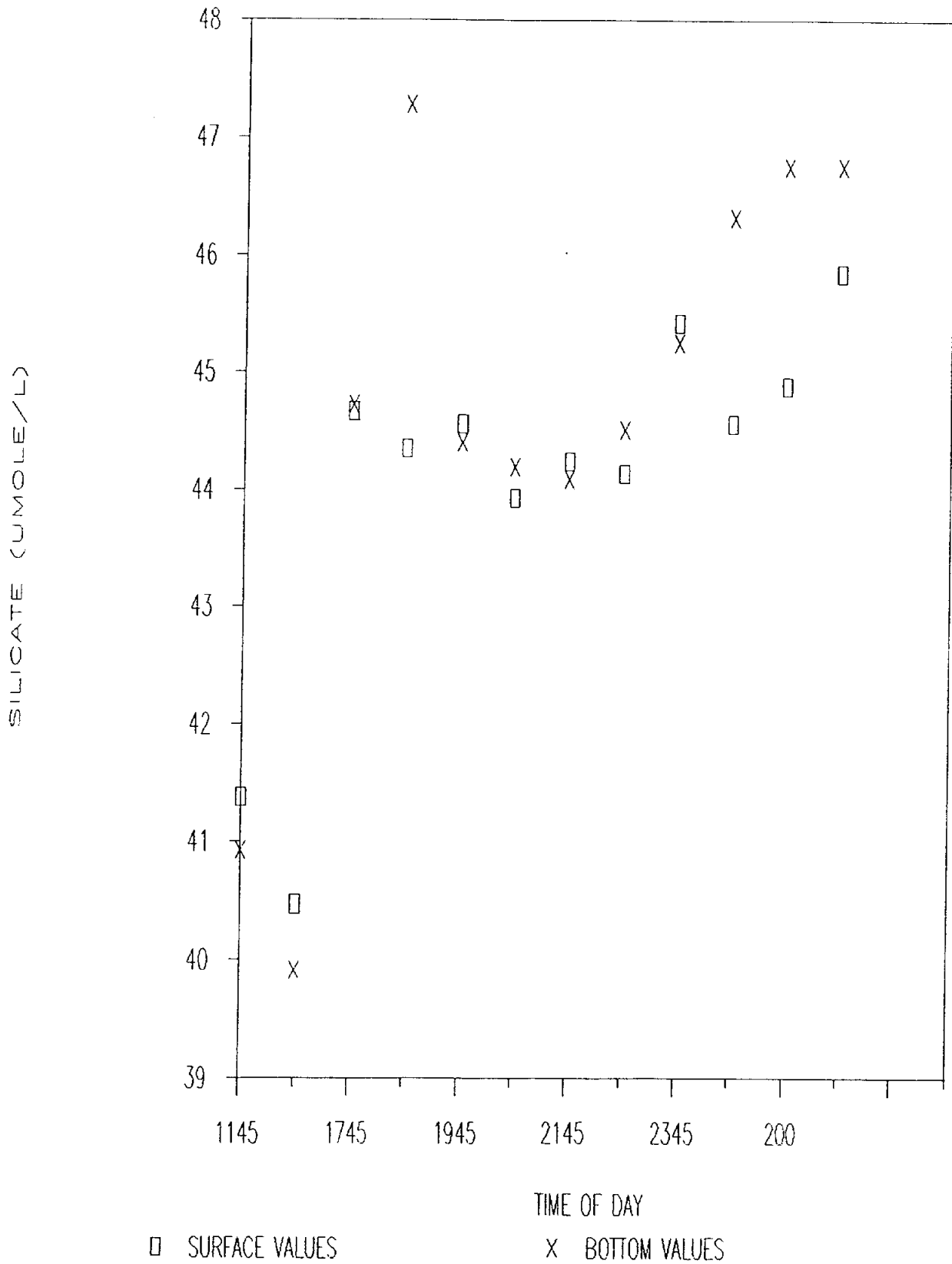
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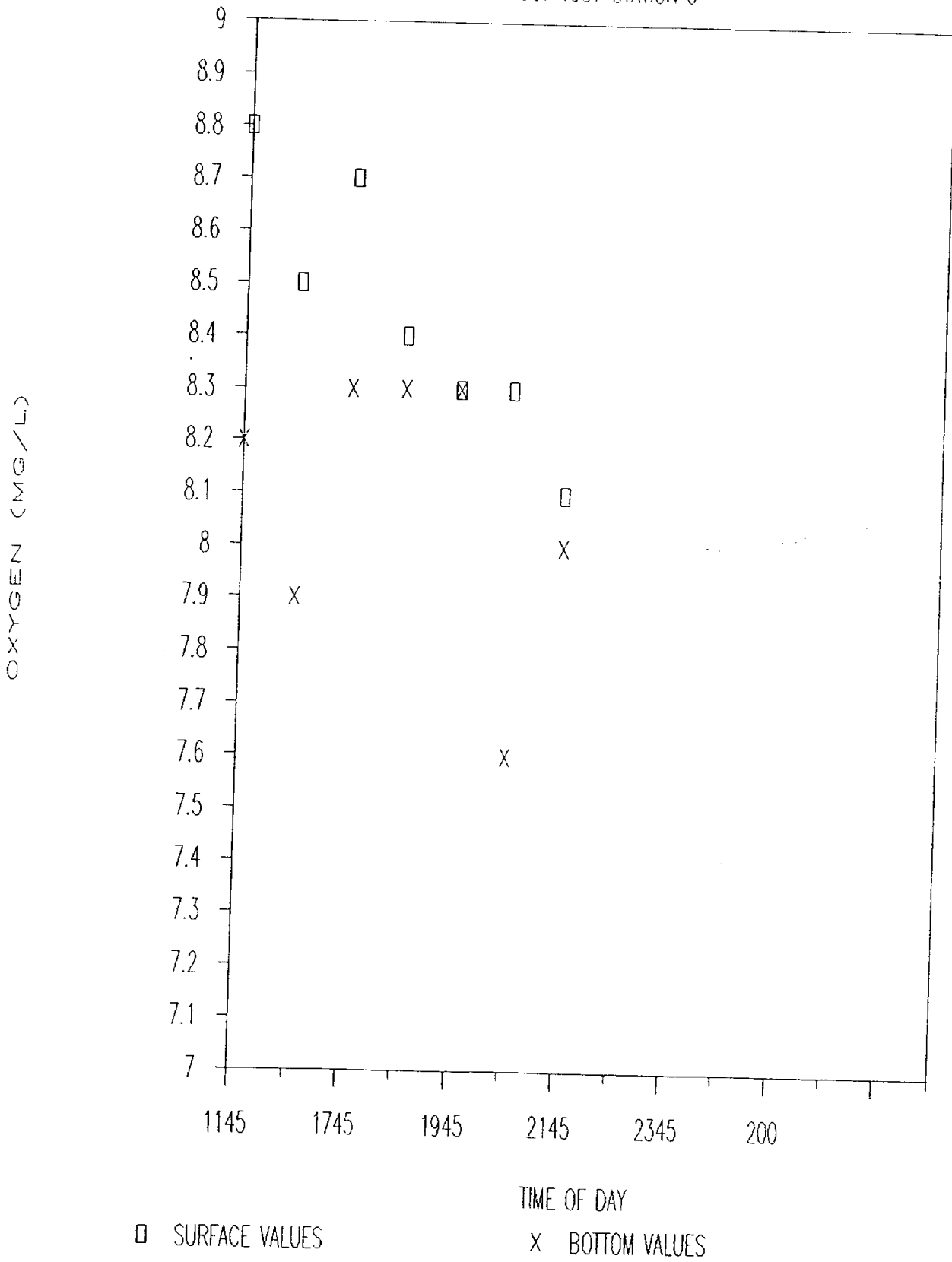
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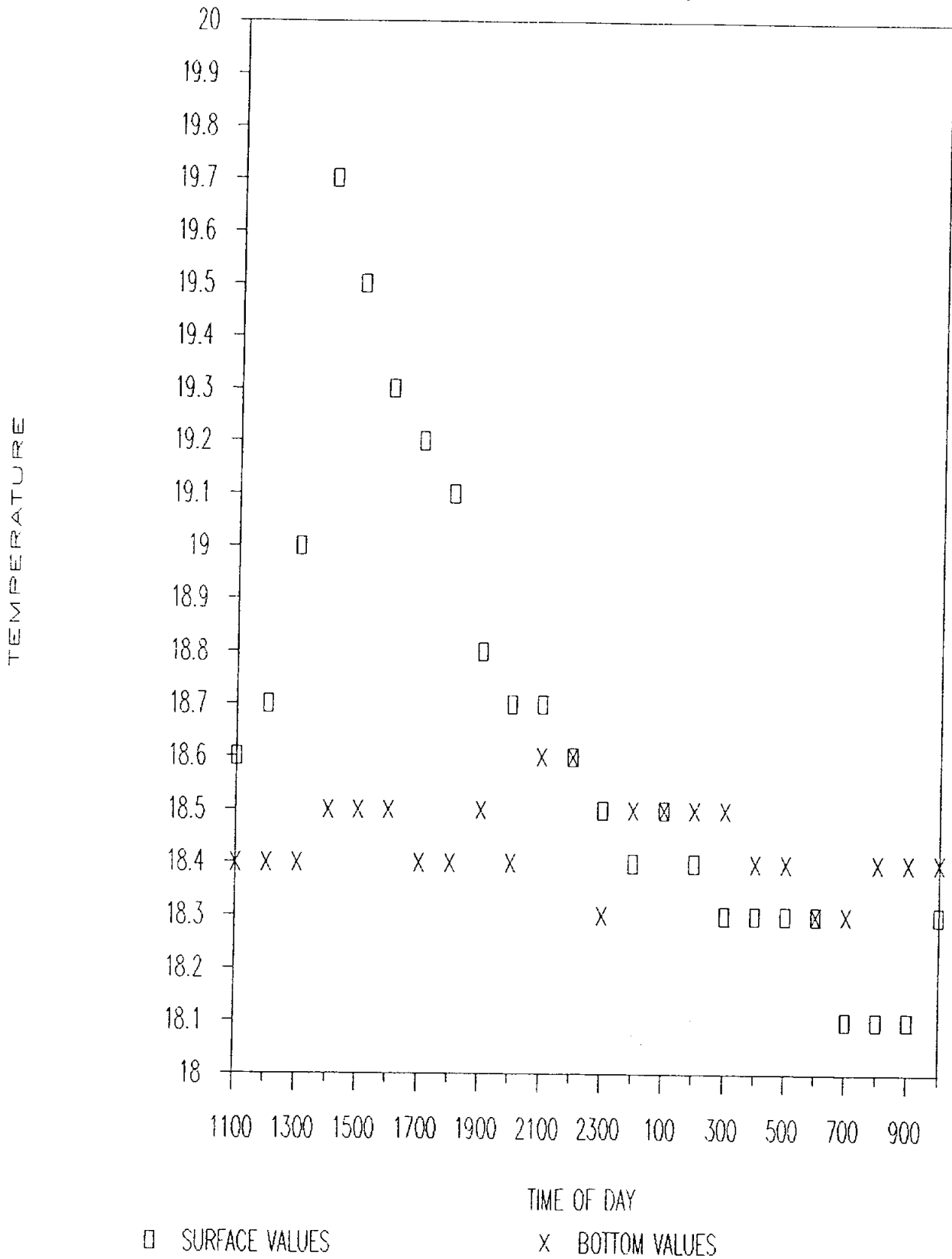
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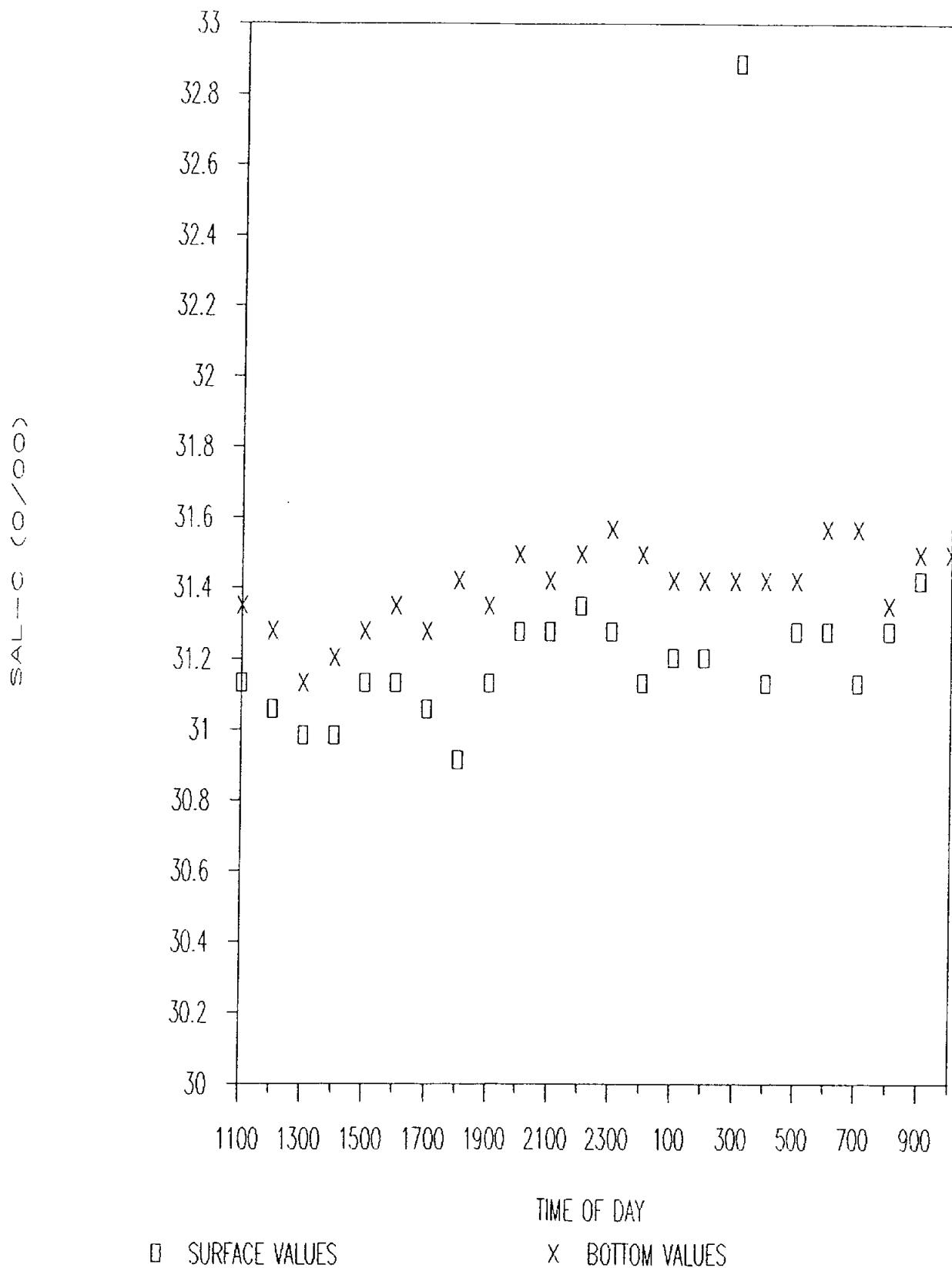
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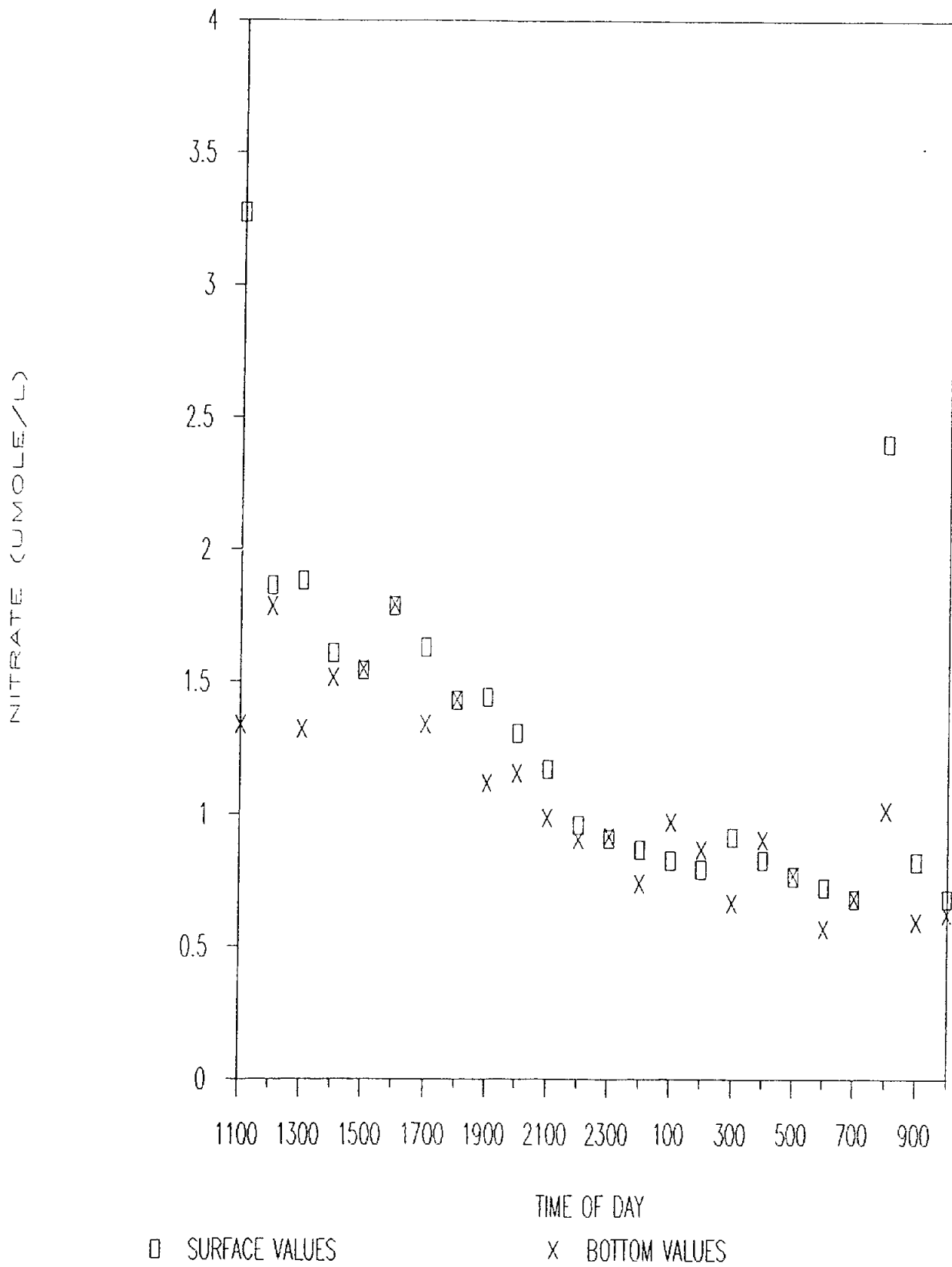
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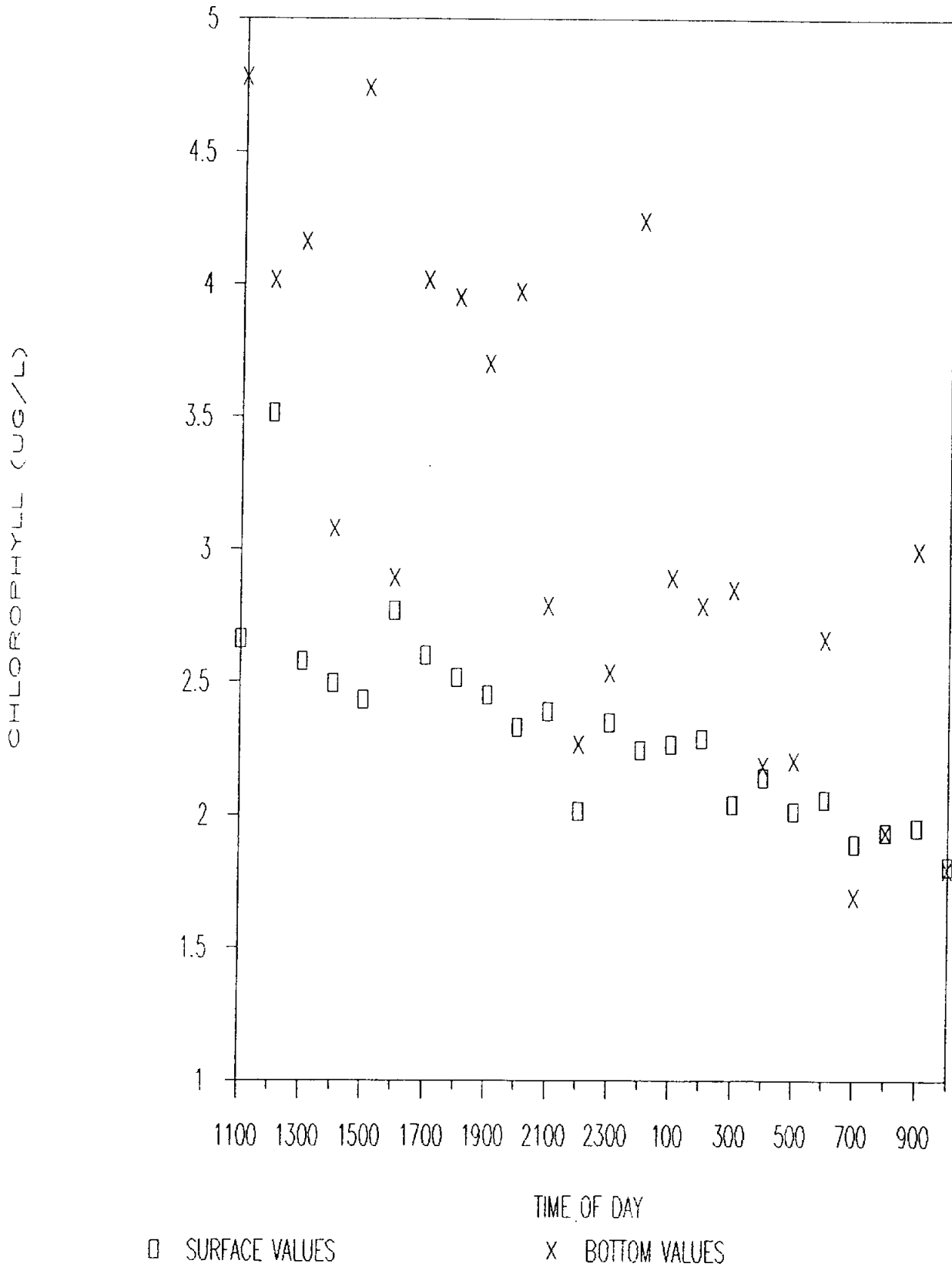
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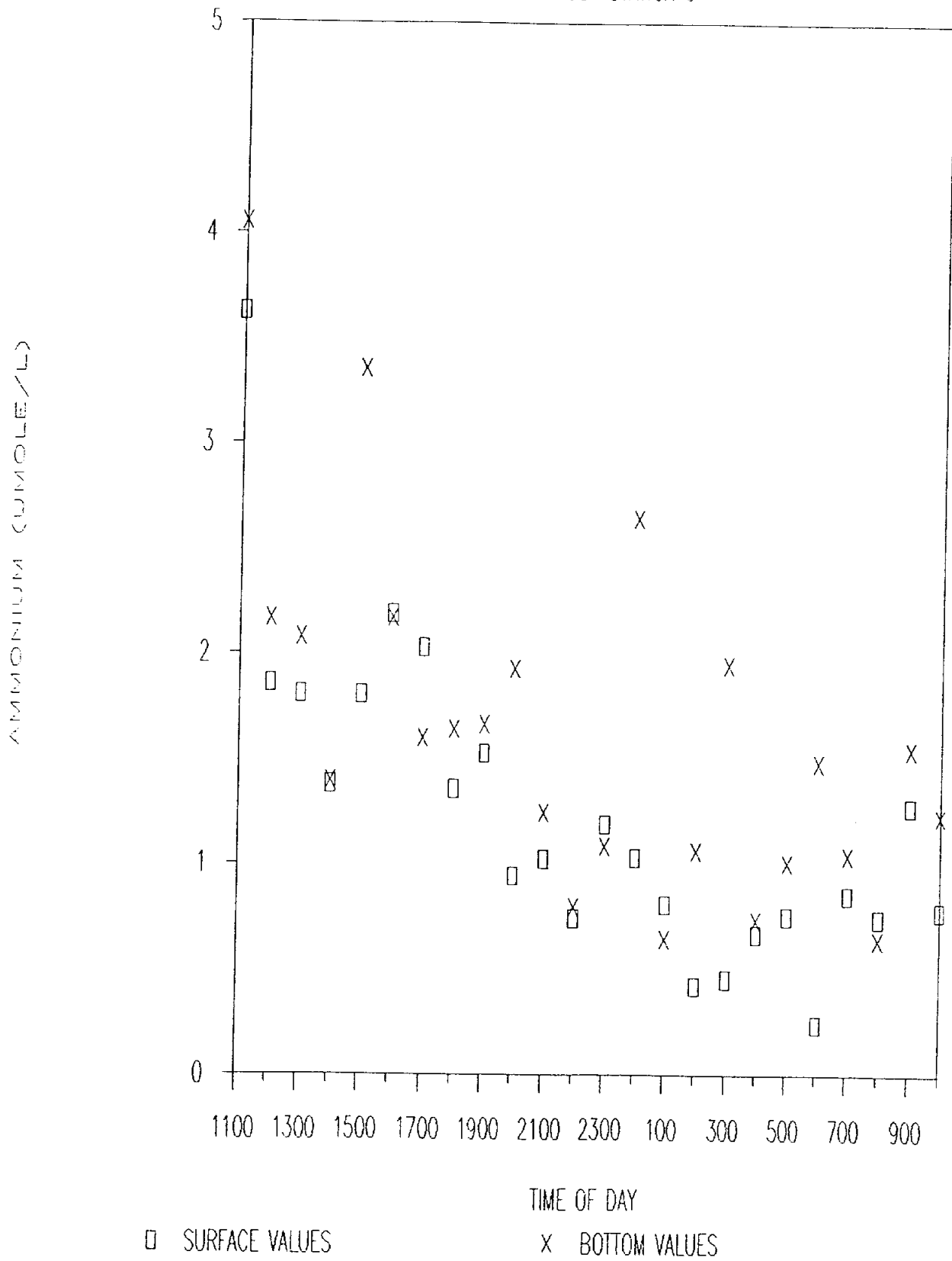
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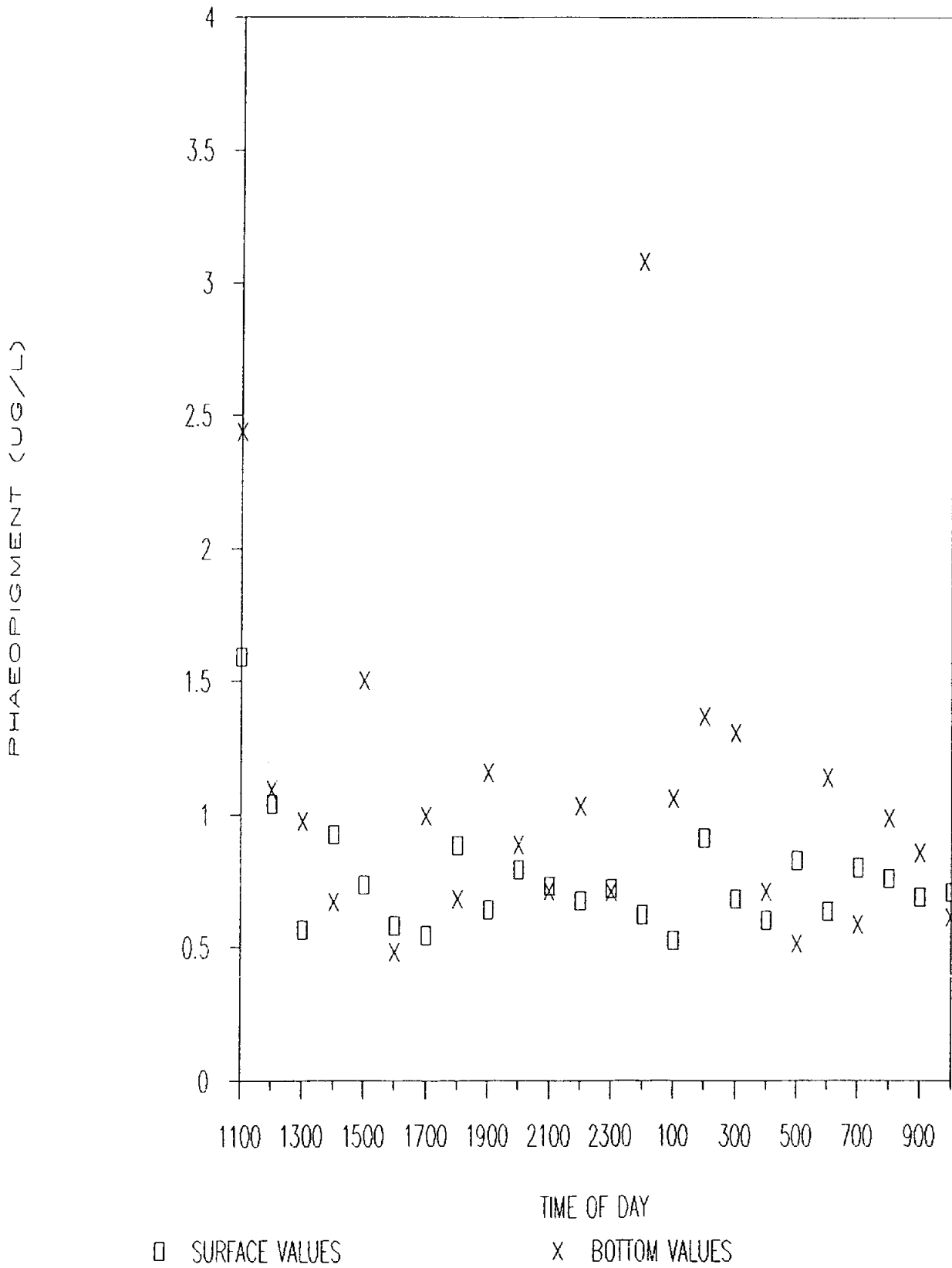
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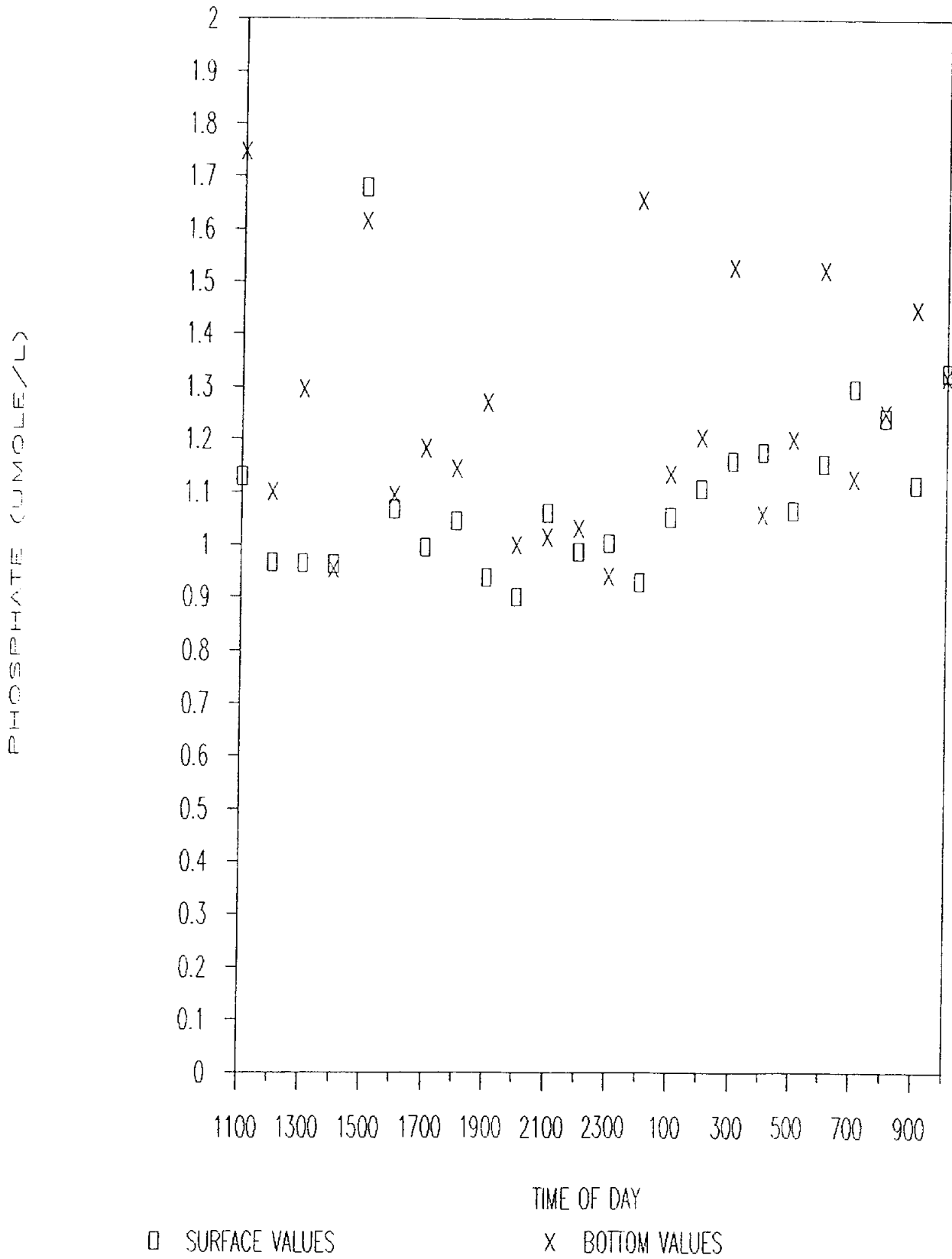
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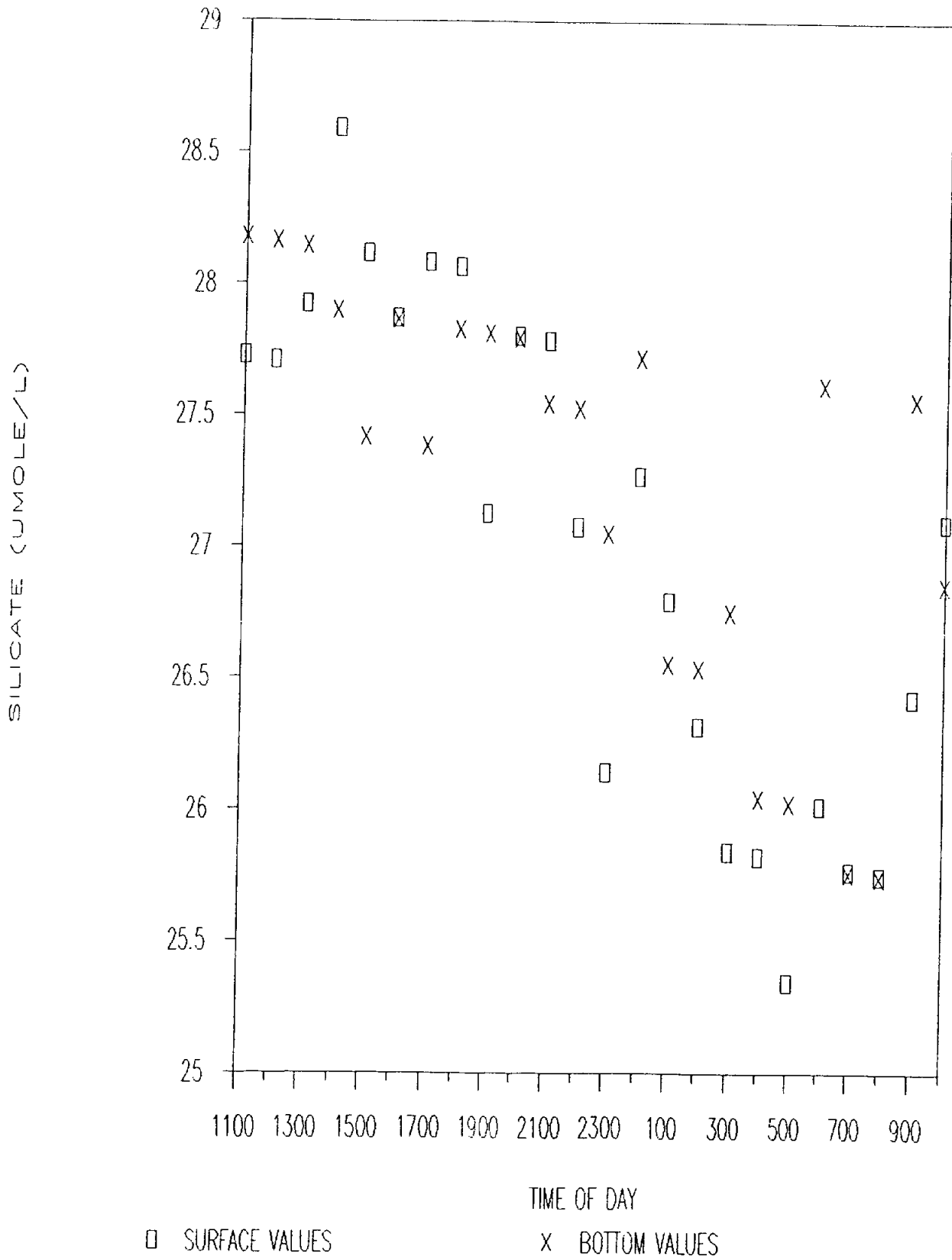
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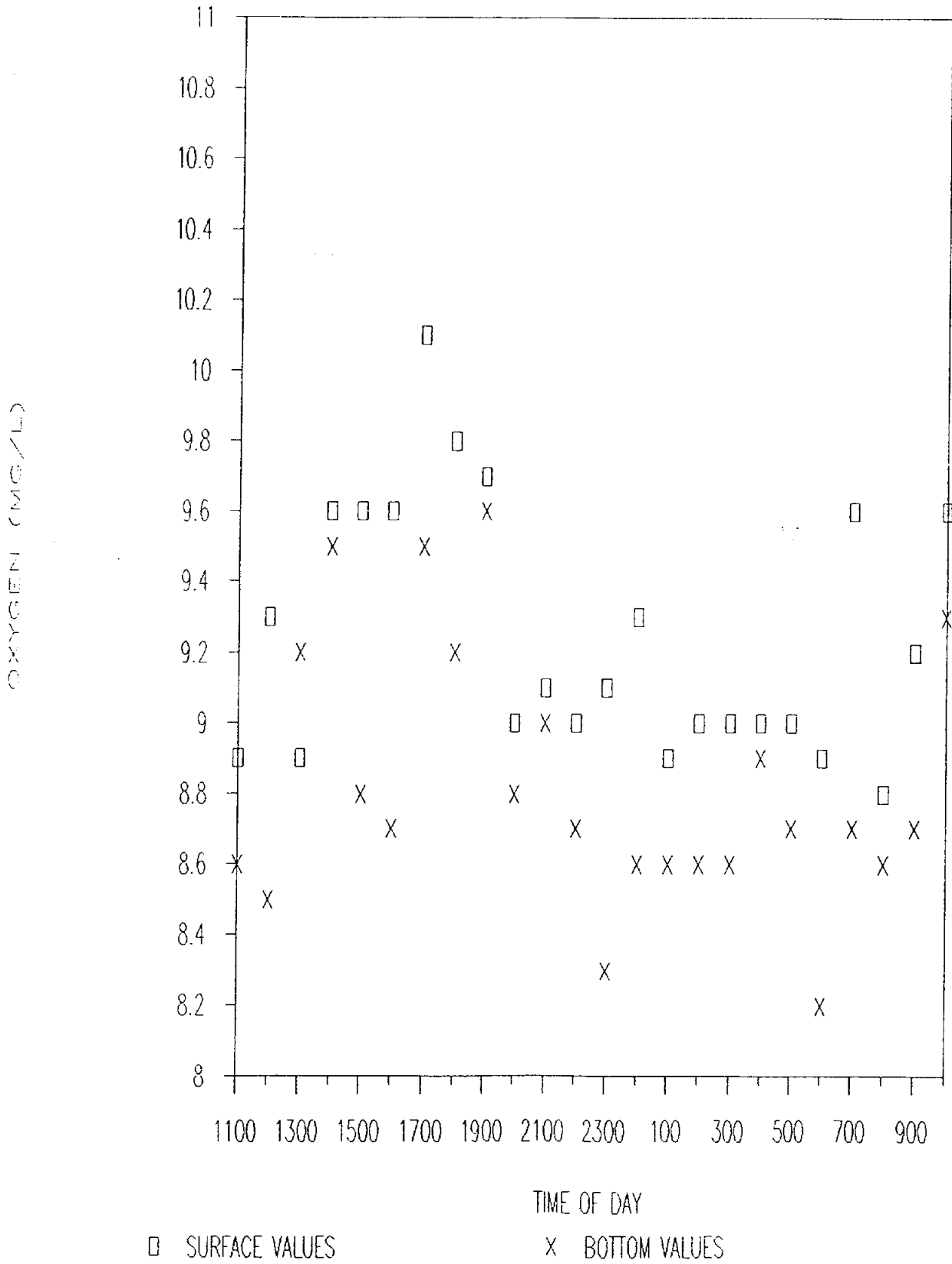
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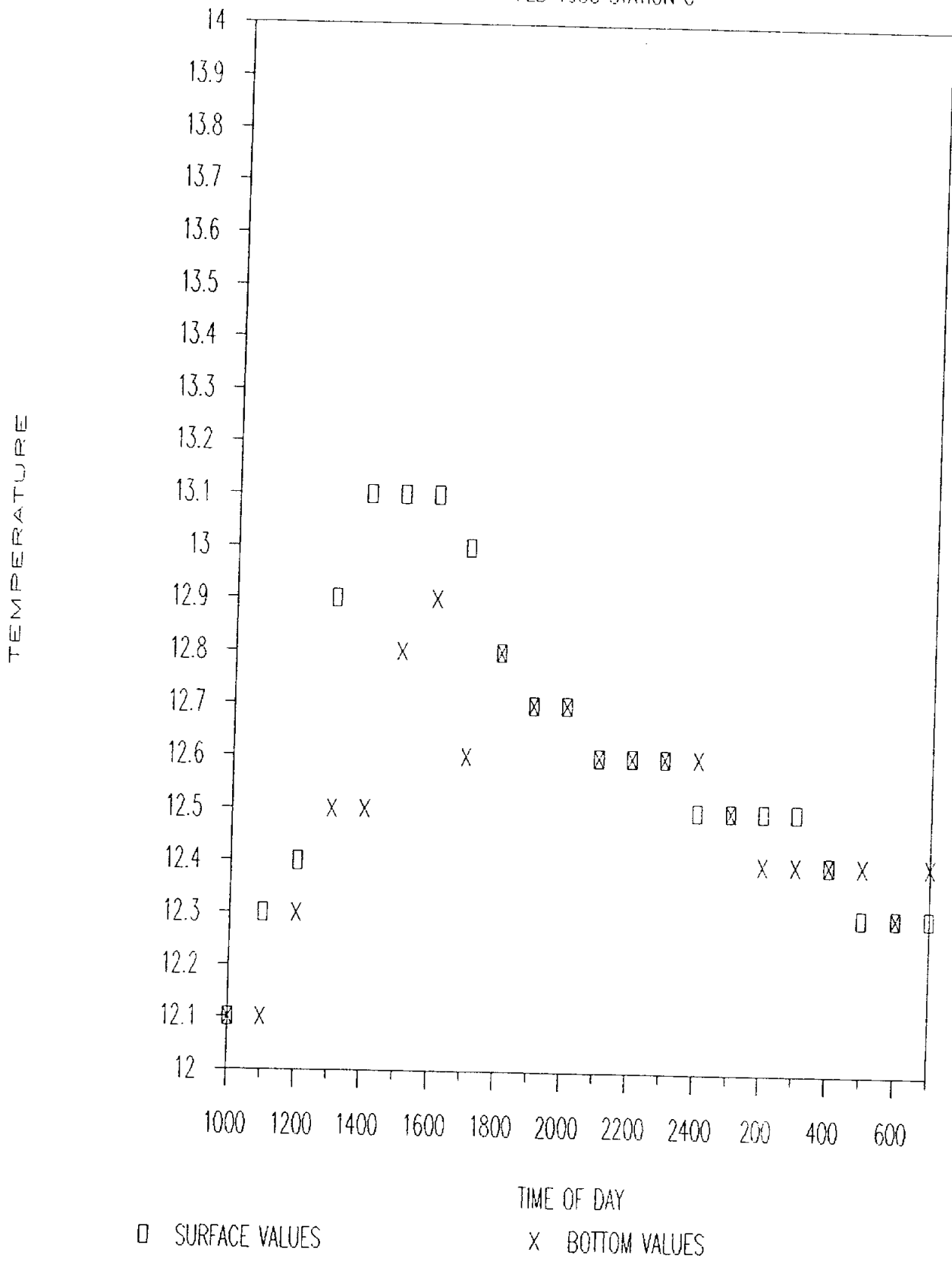
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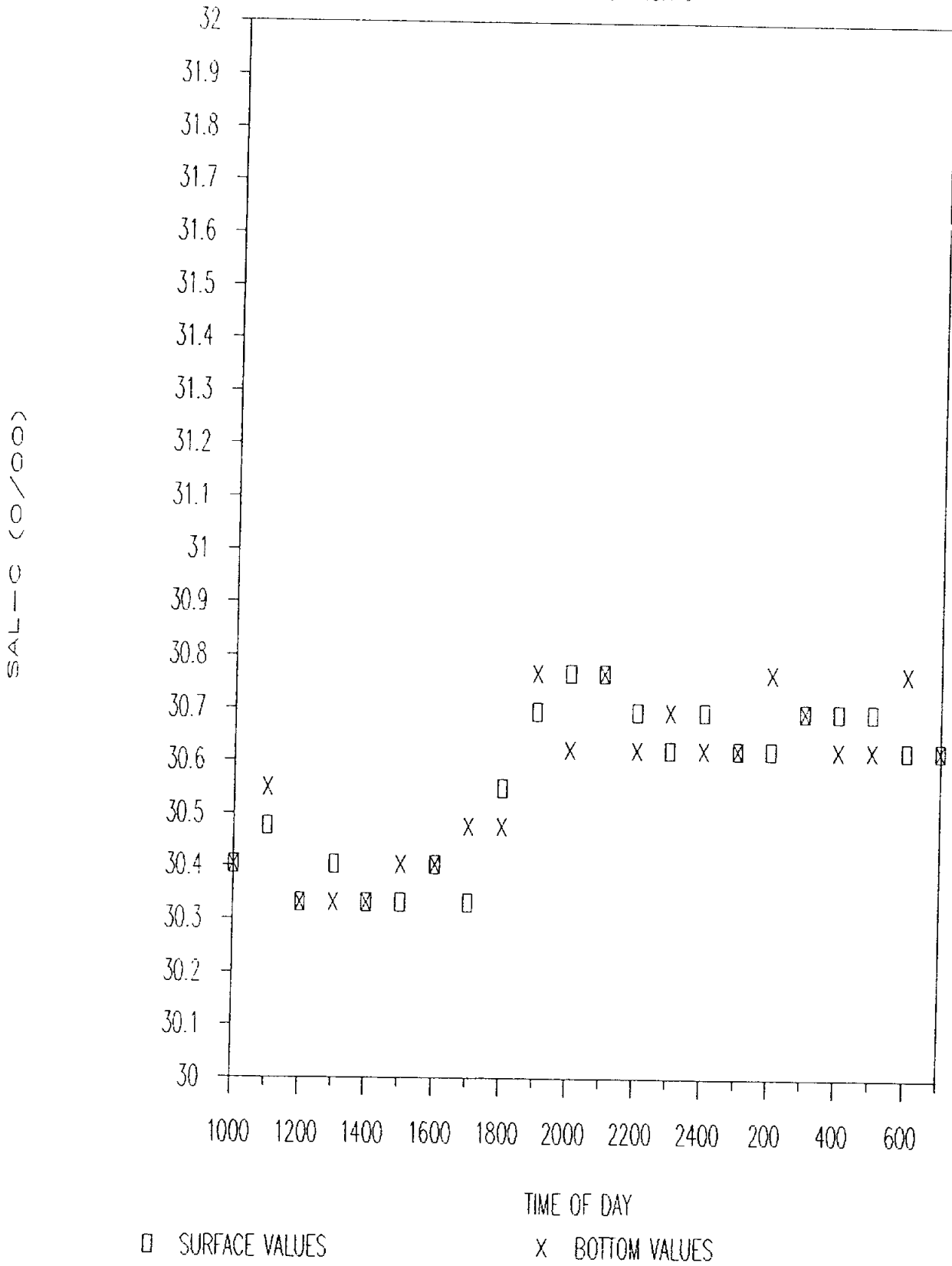
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FEB 1988 STATION C



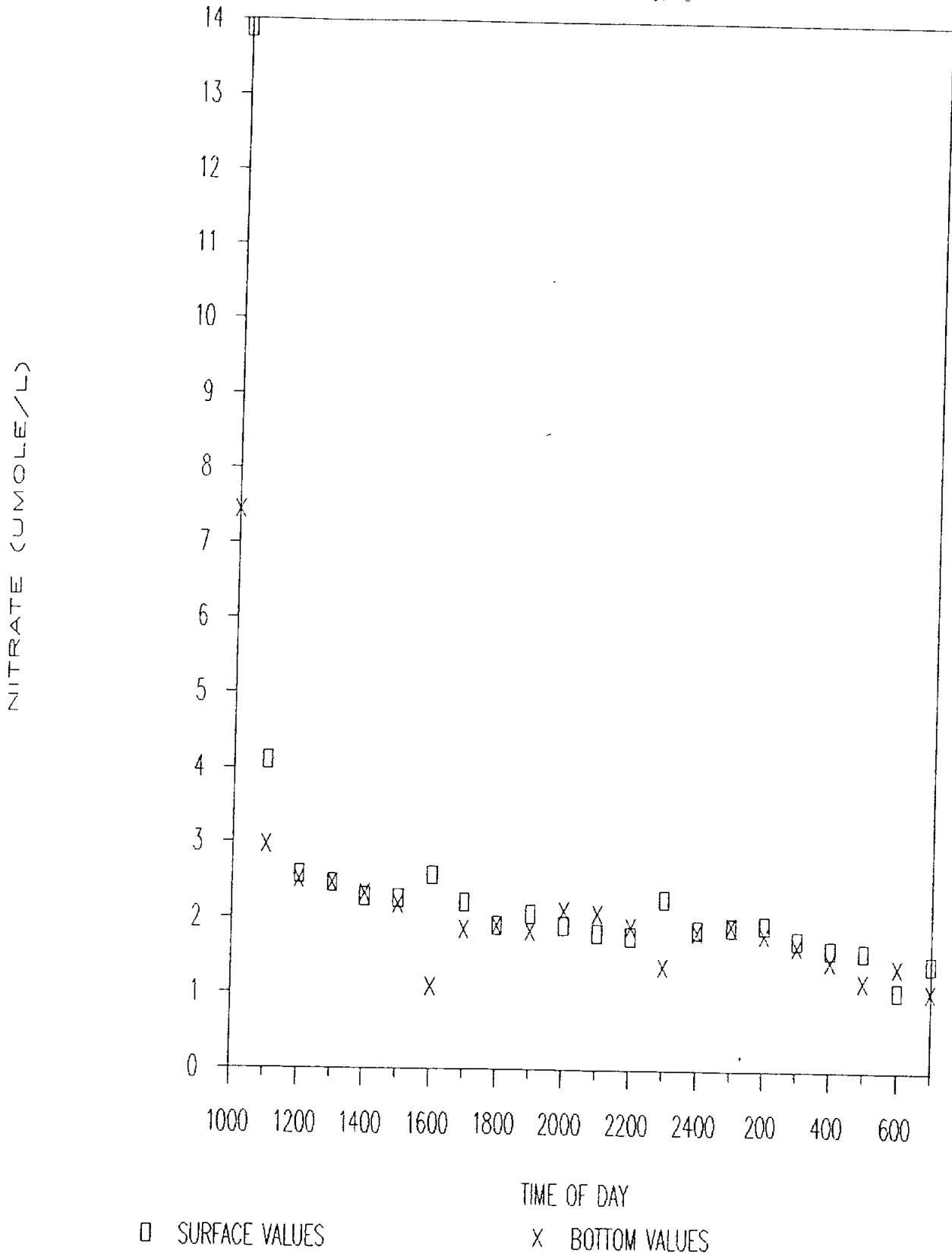
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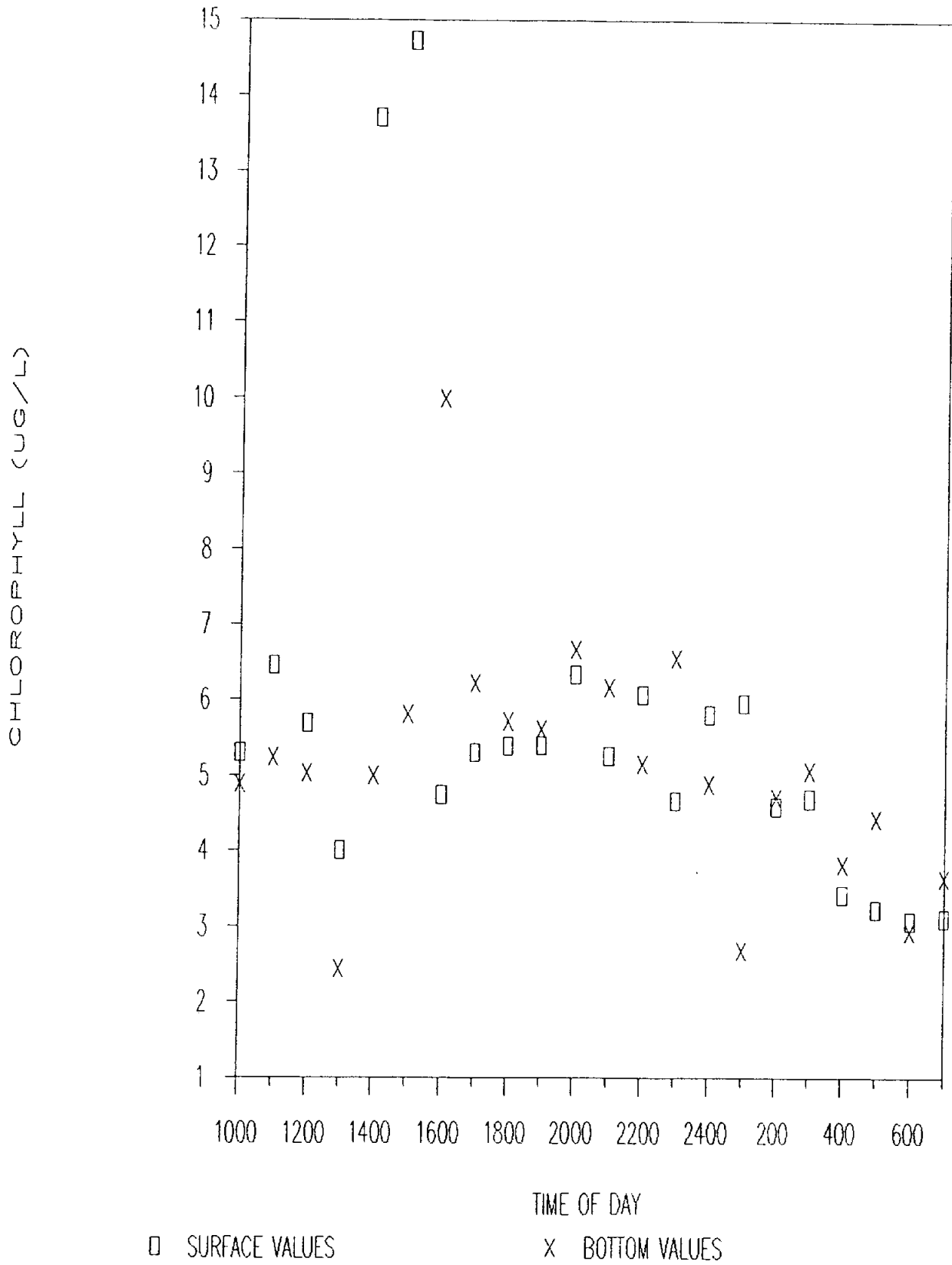
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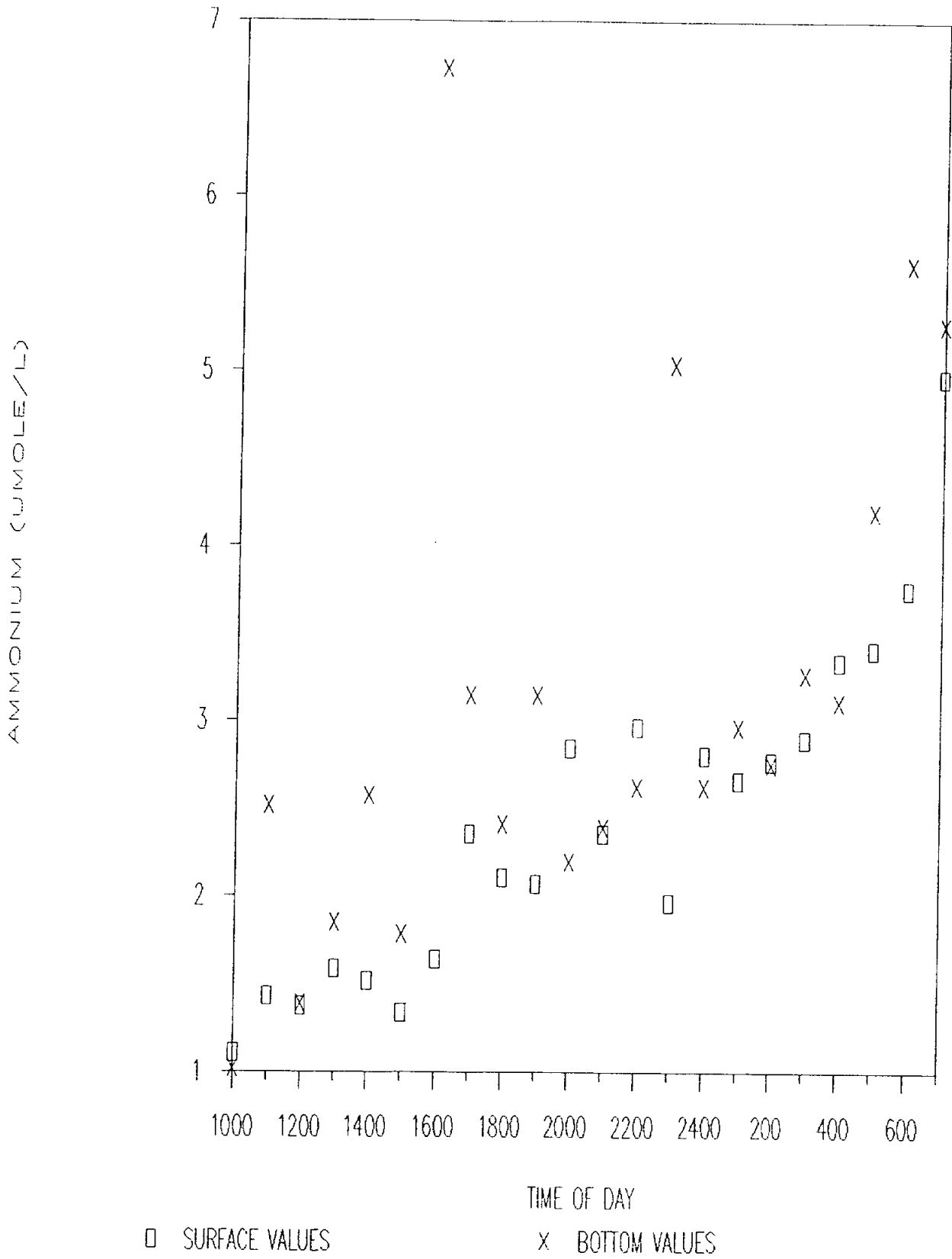
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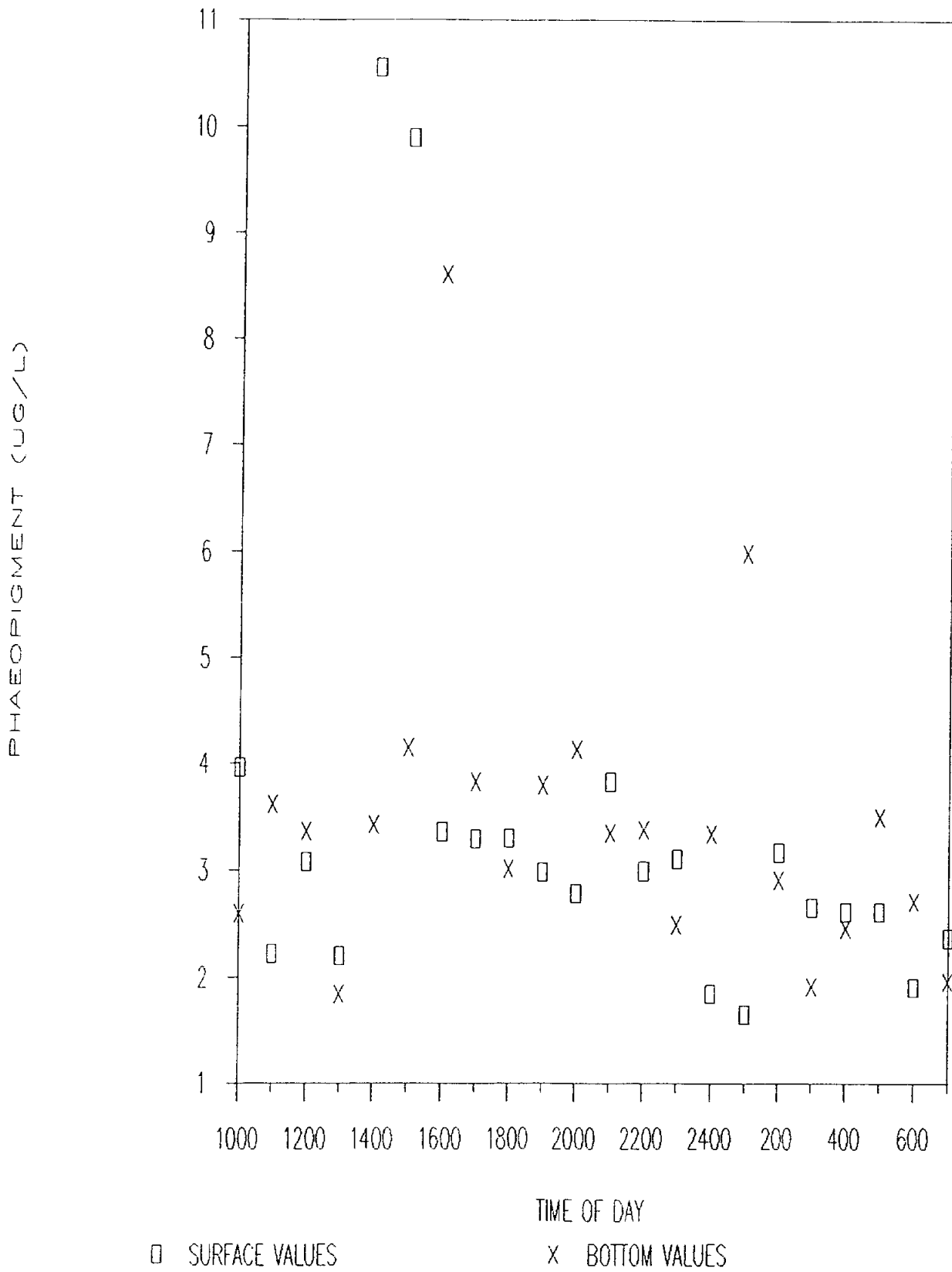
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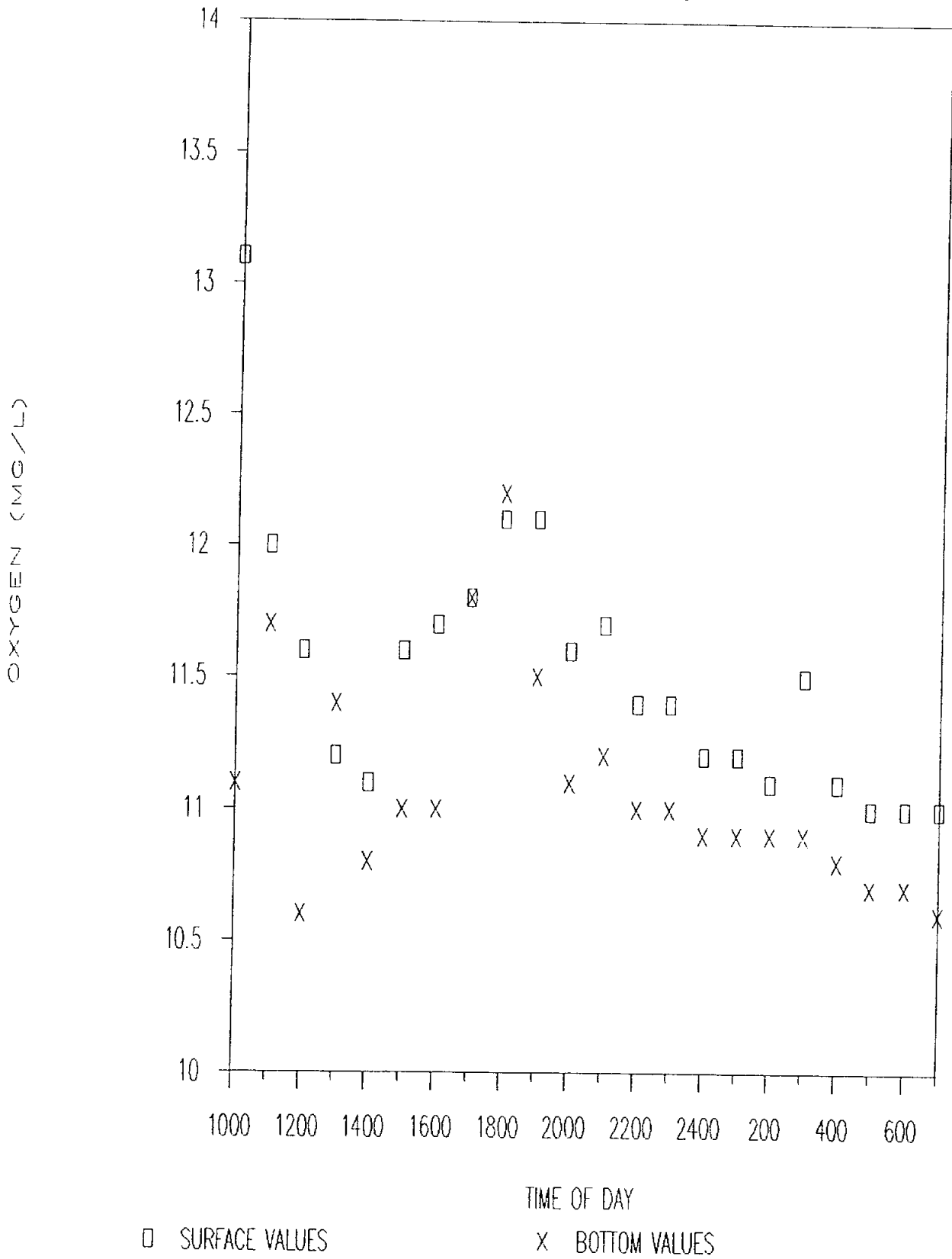
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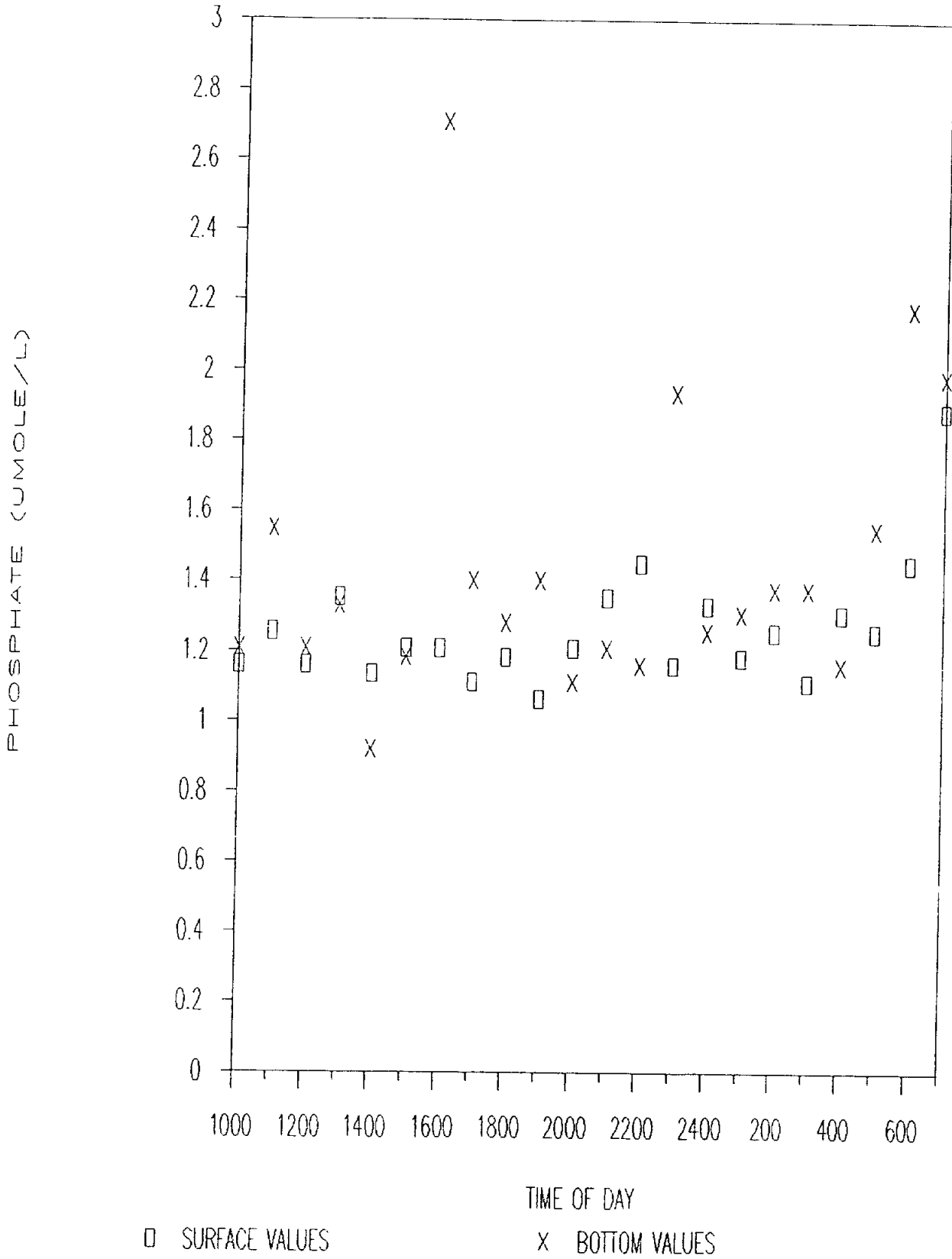
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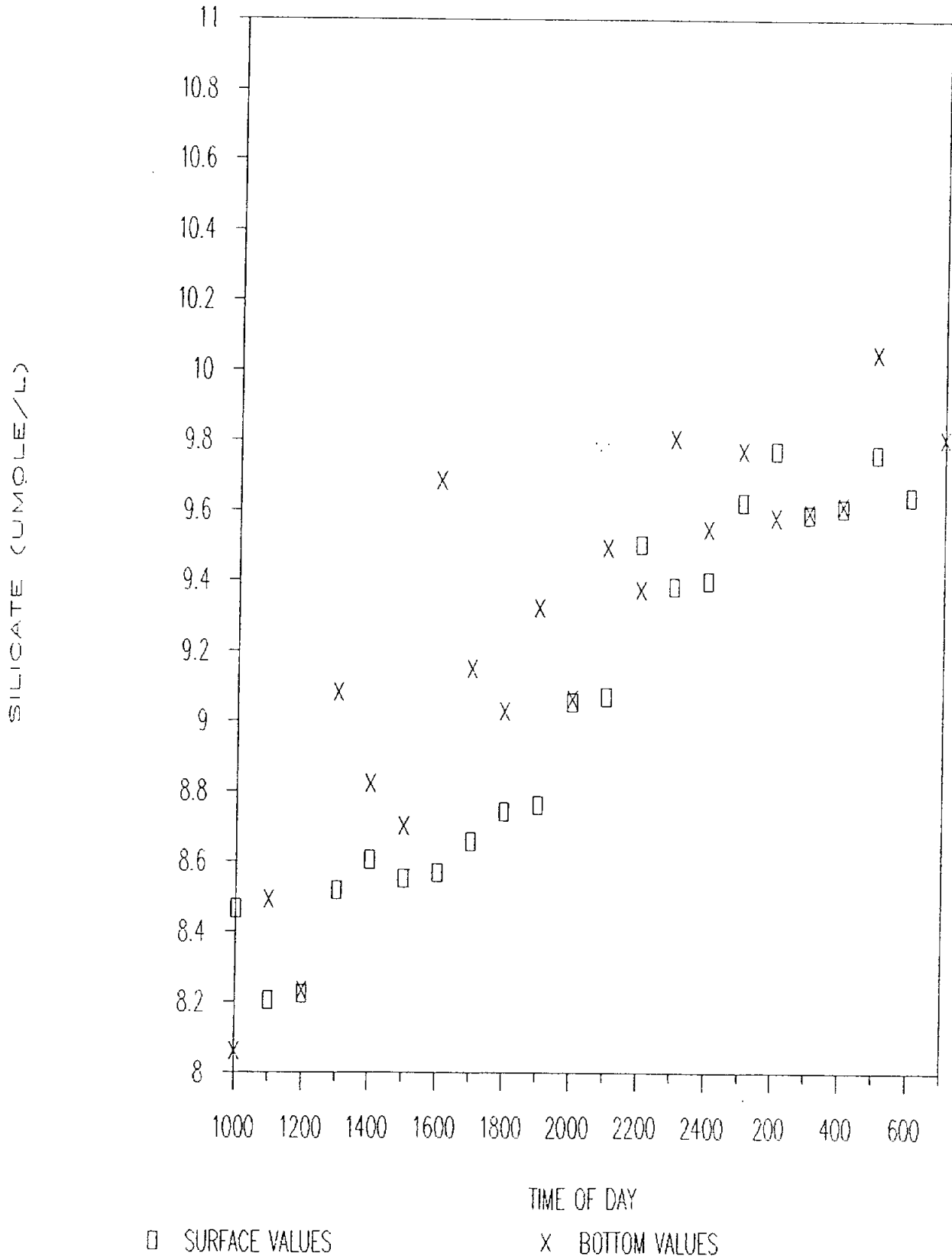
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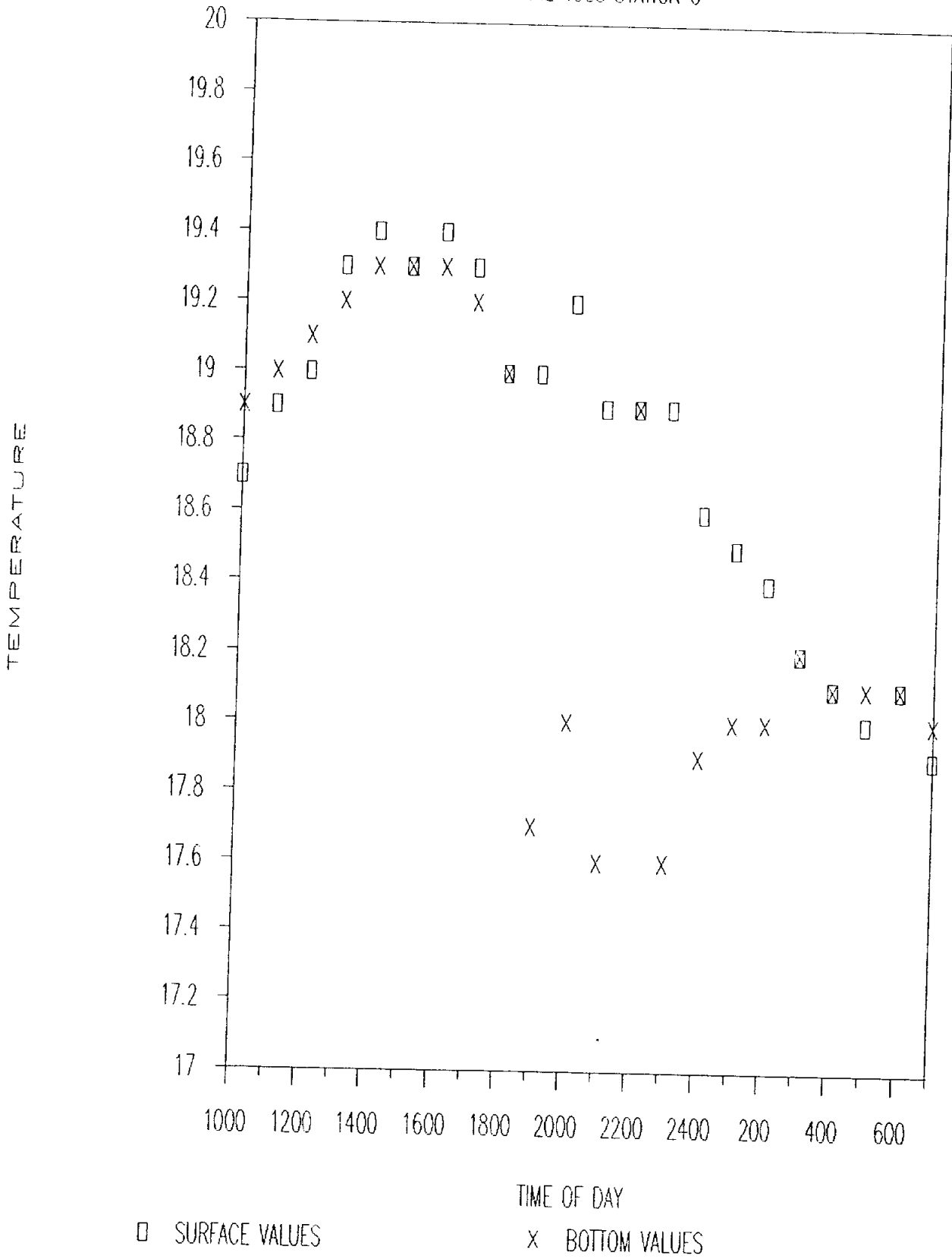
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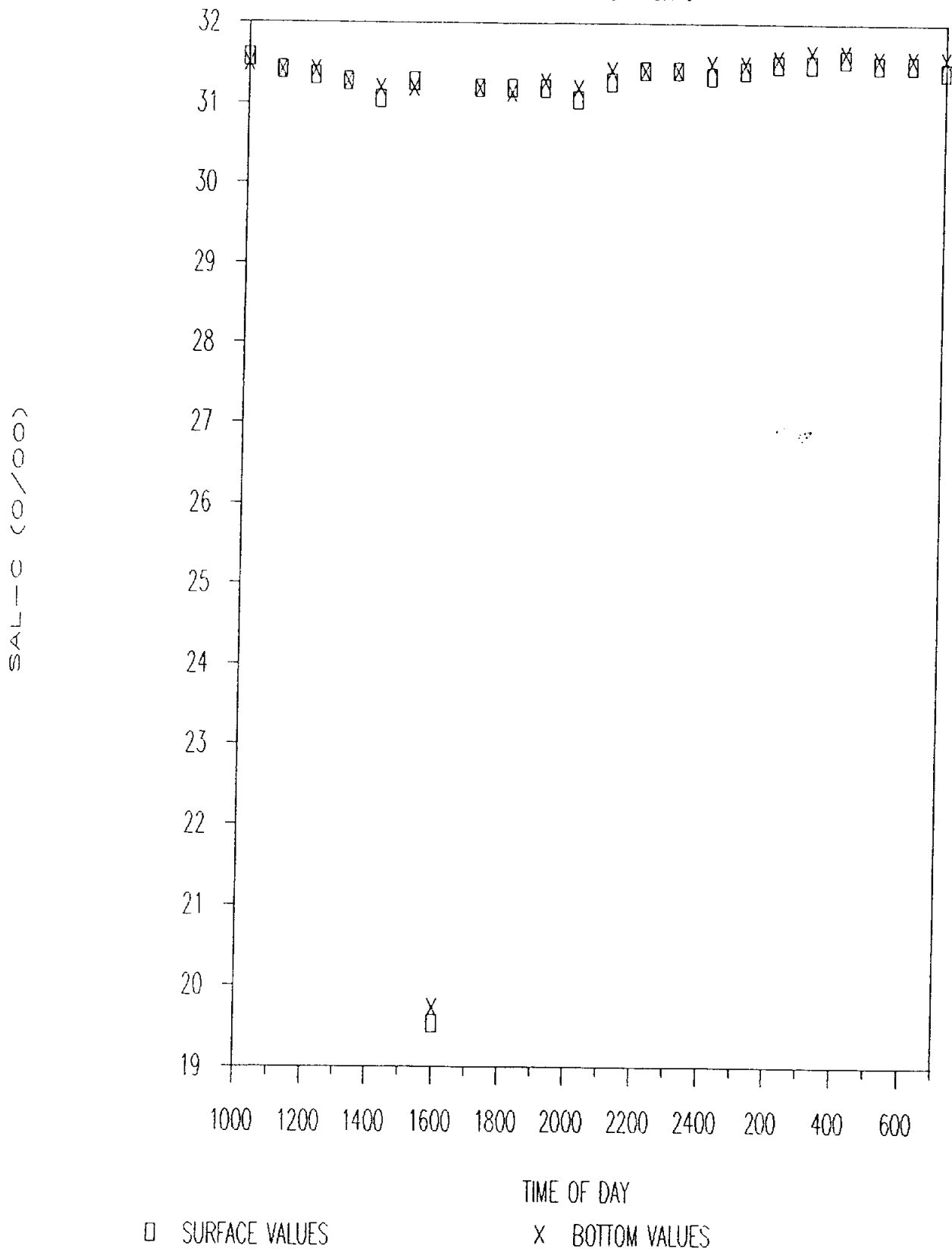
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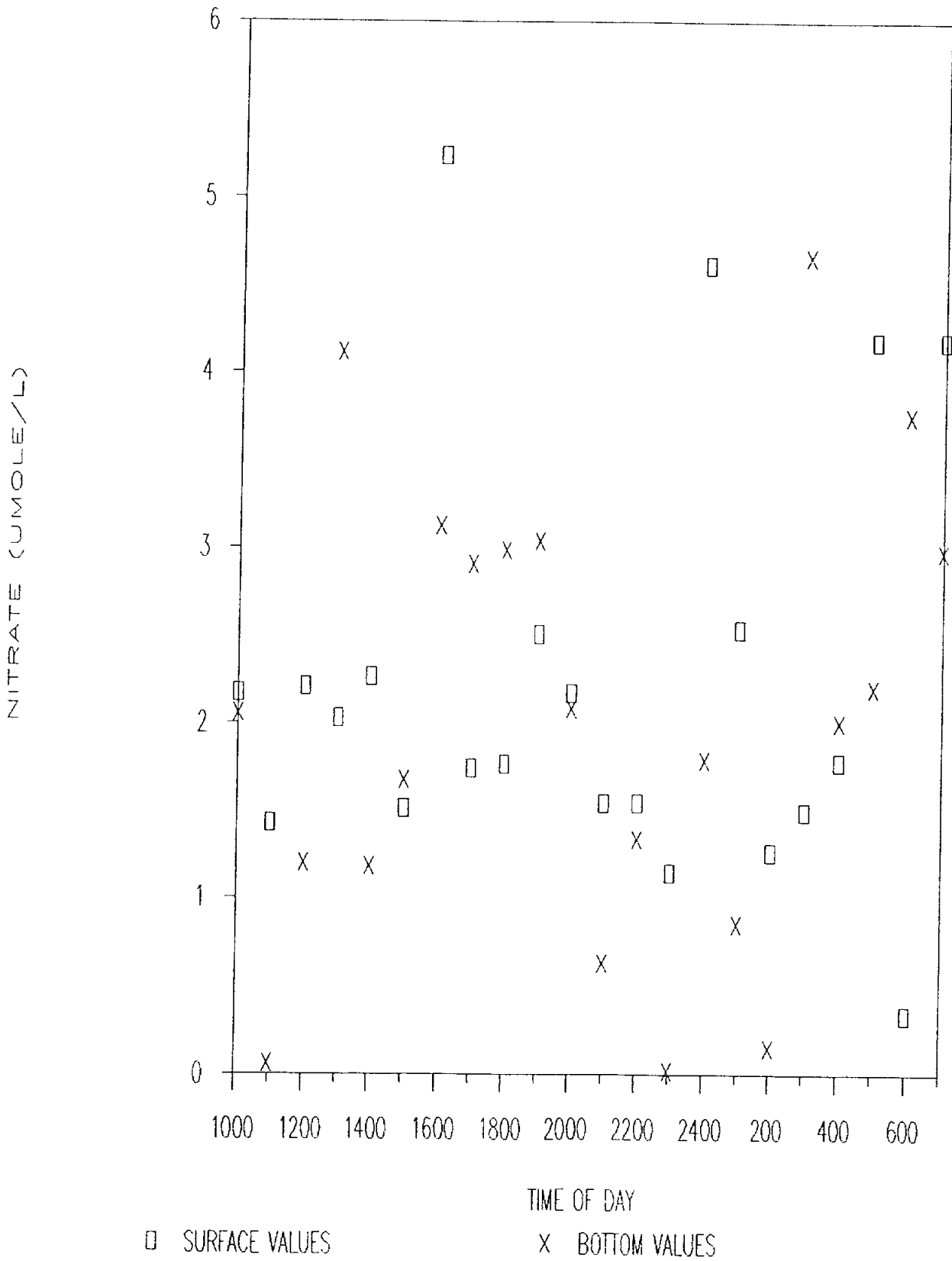
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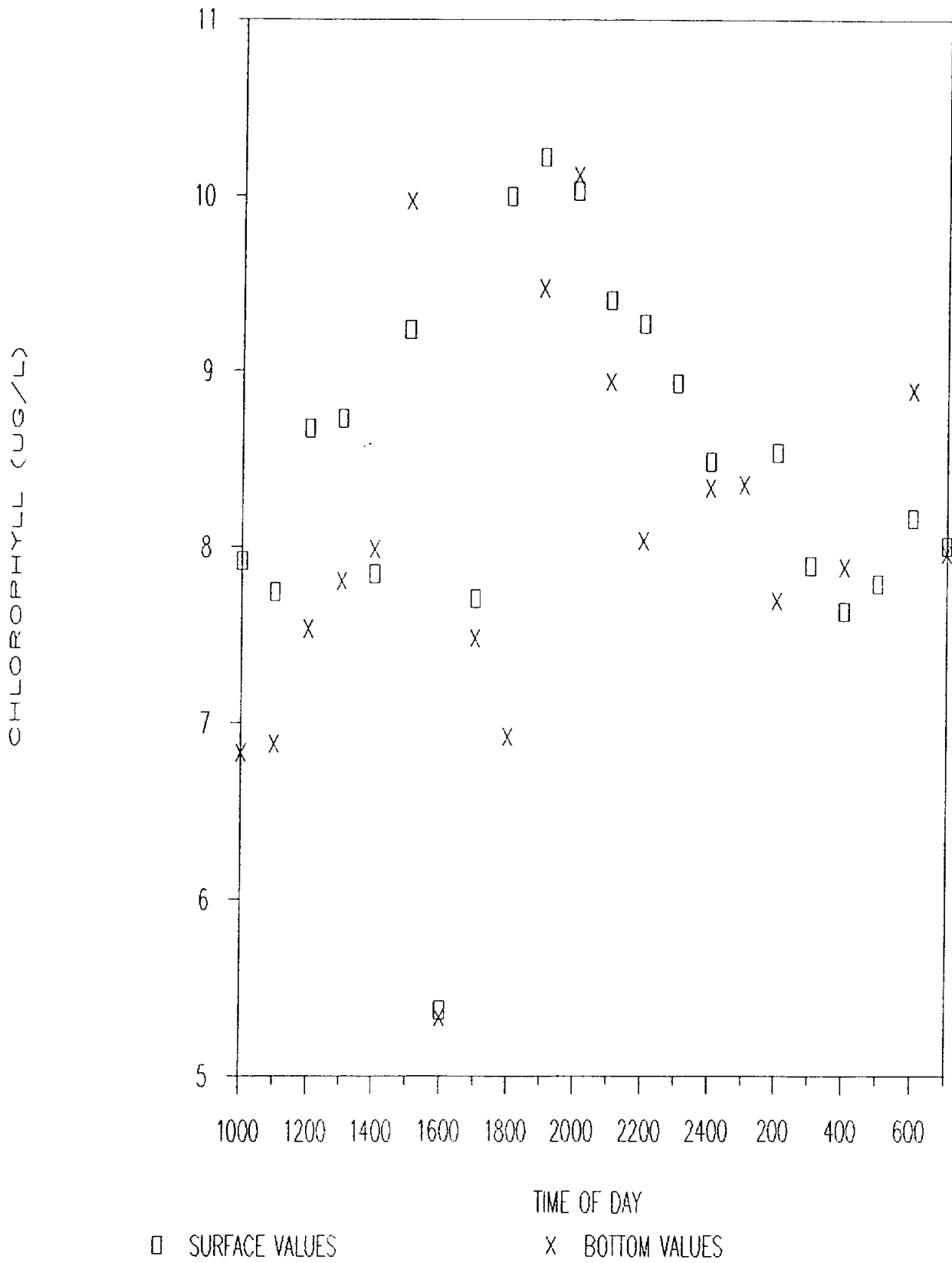
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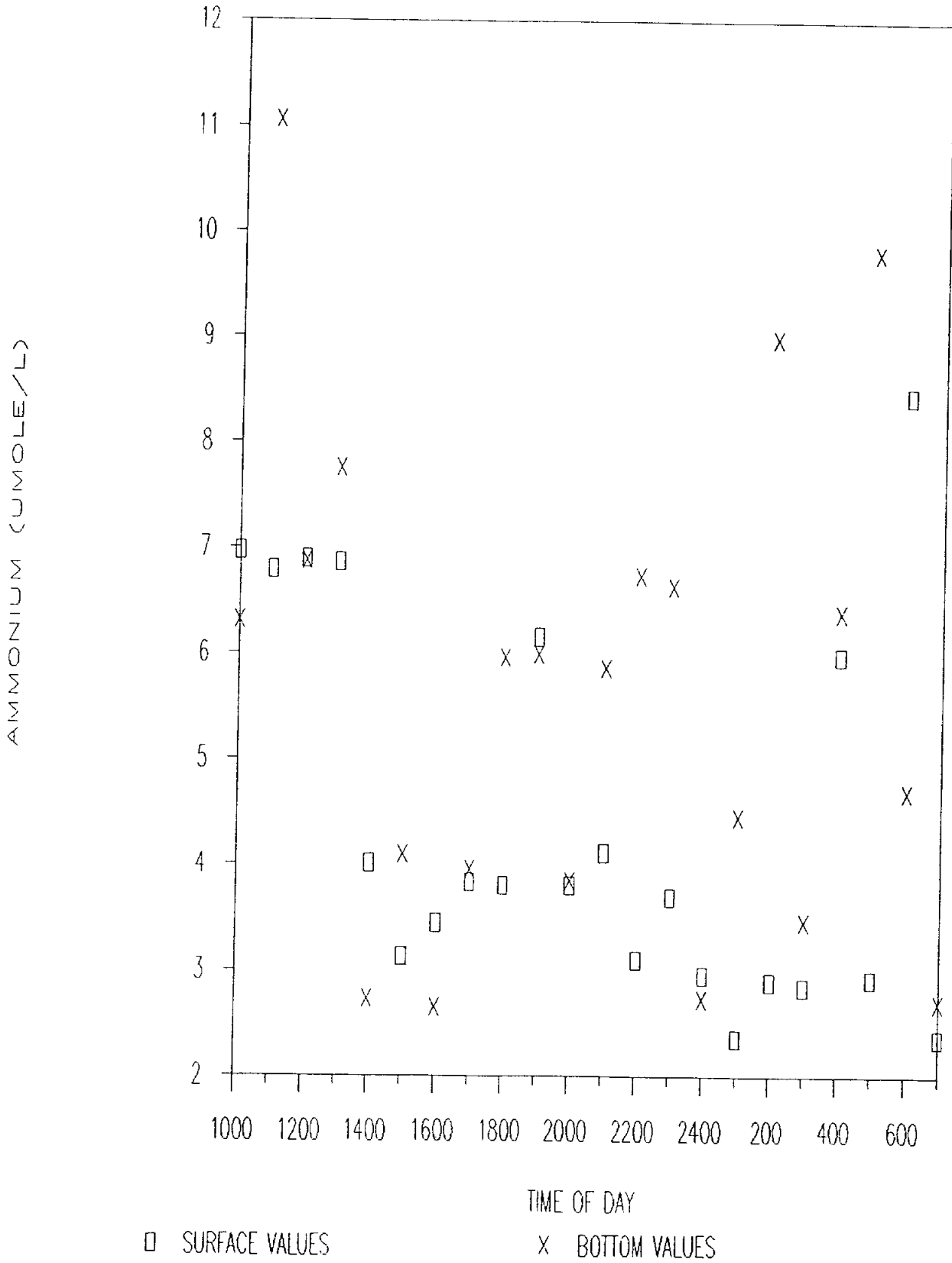
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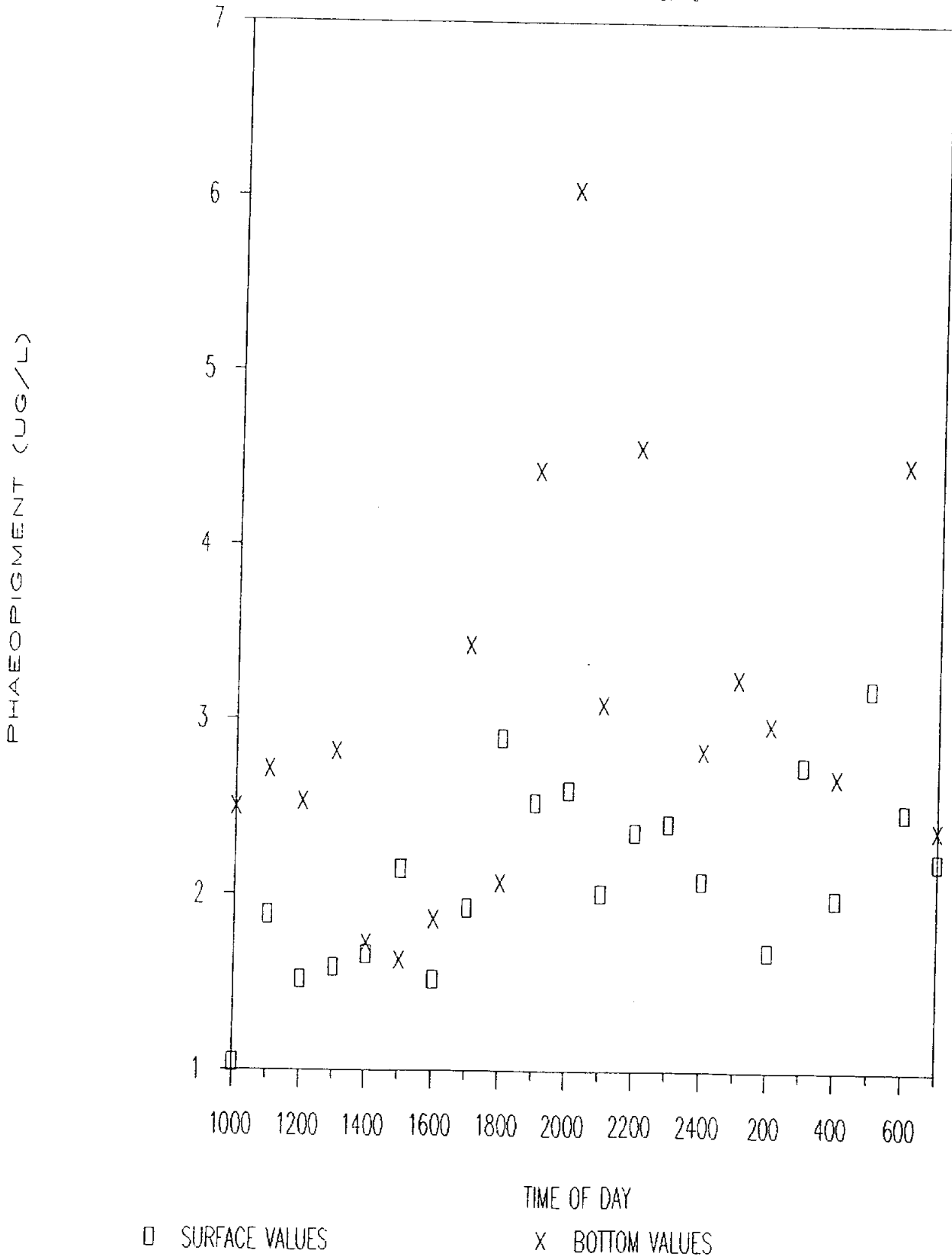
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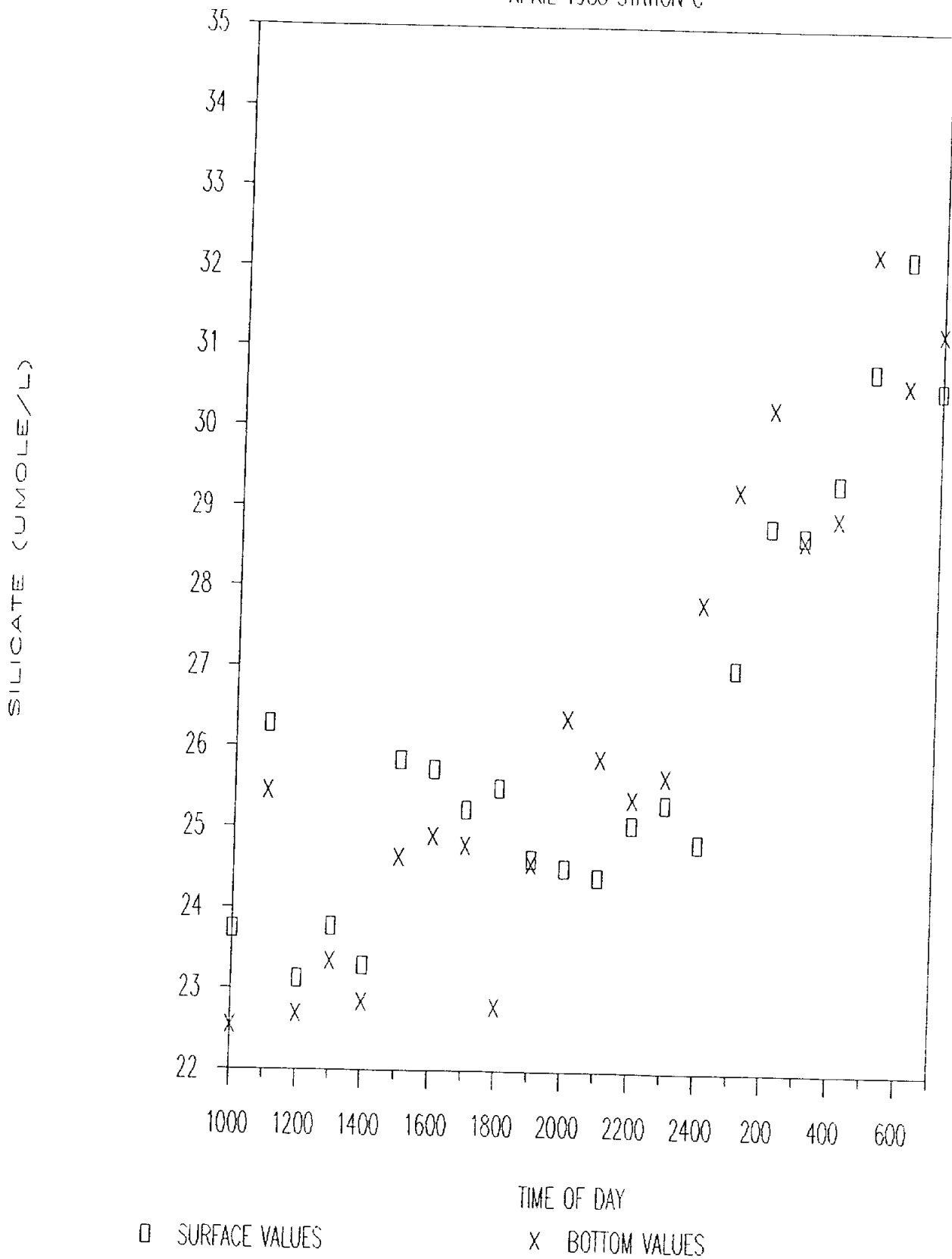
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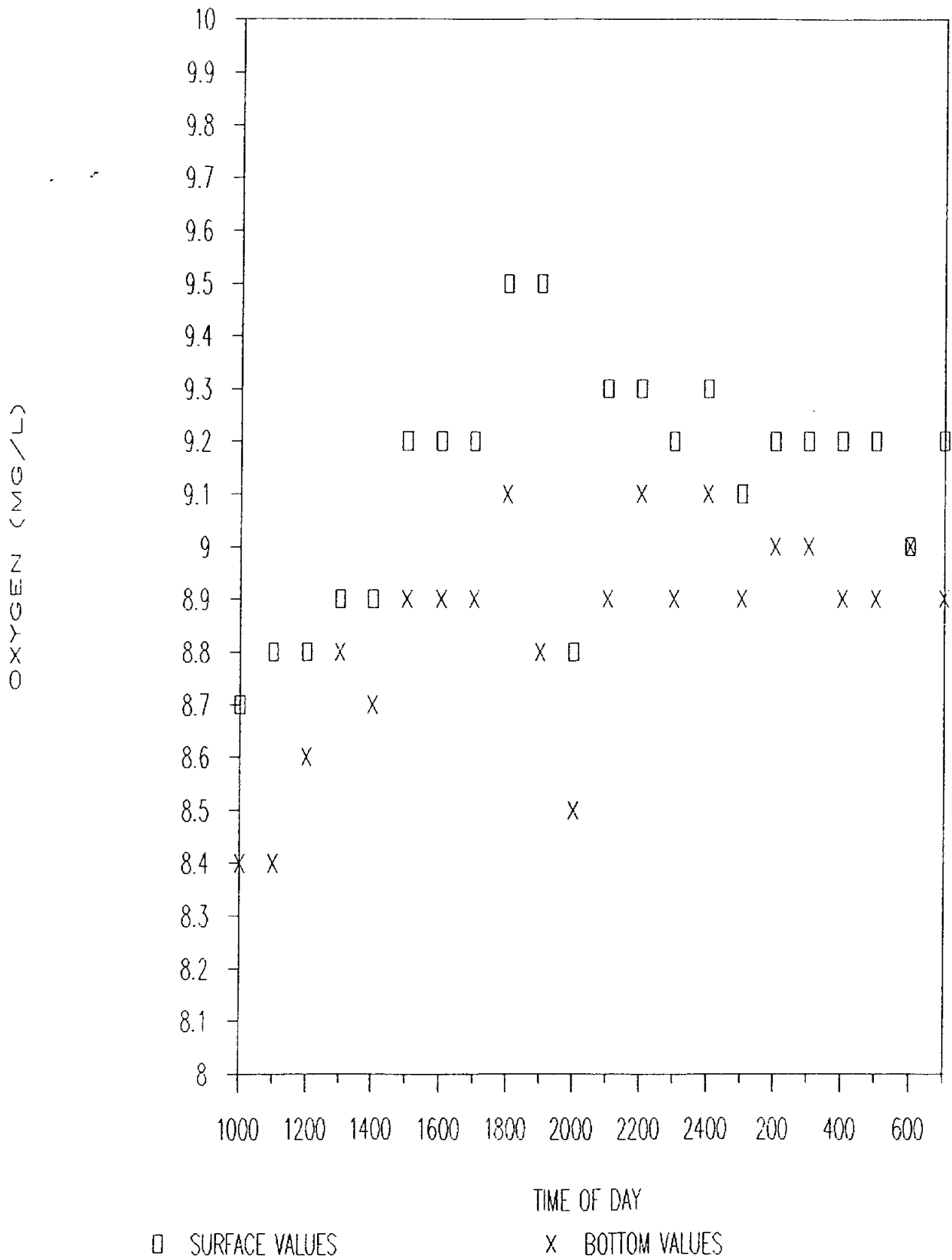
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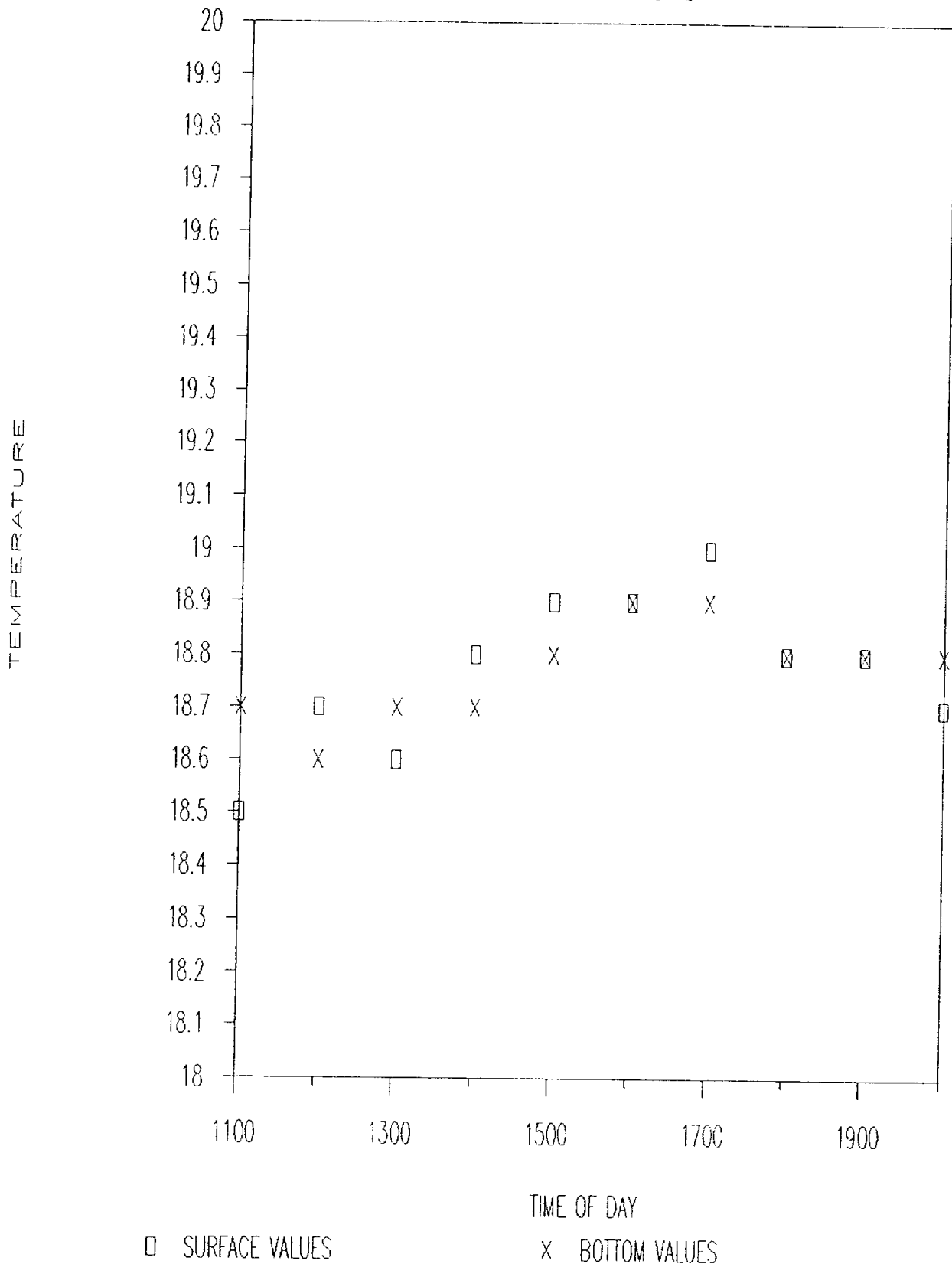
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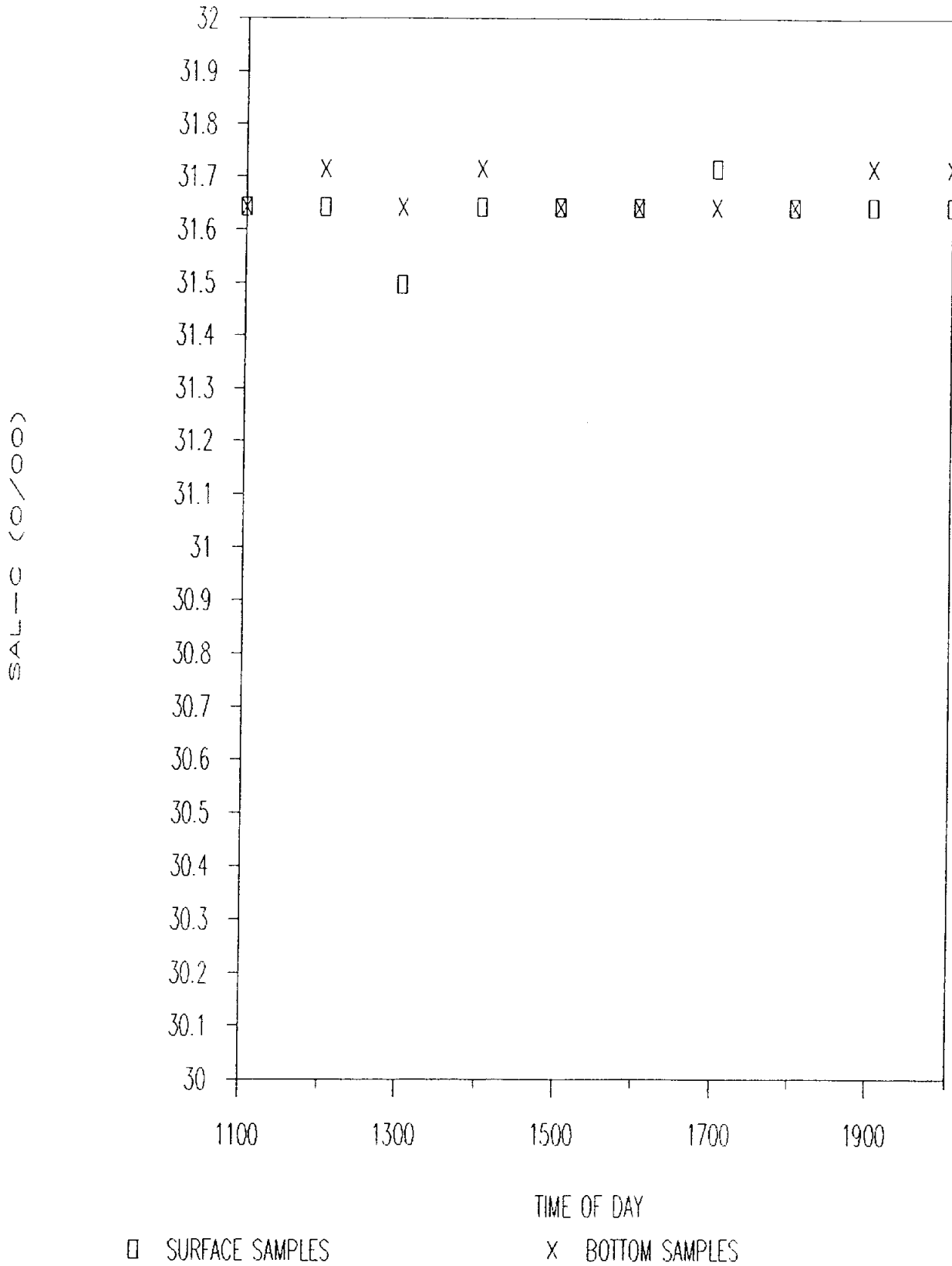
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DEC 1987 STATION D



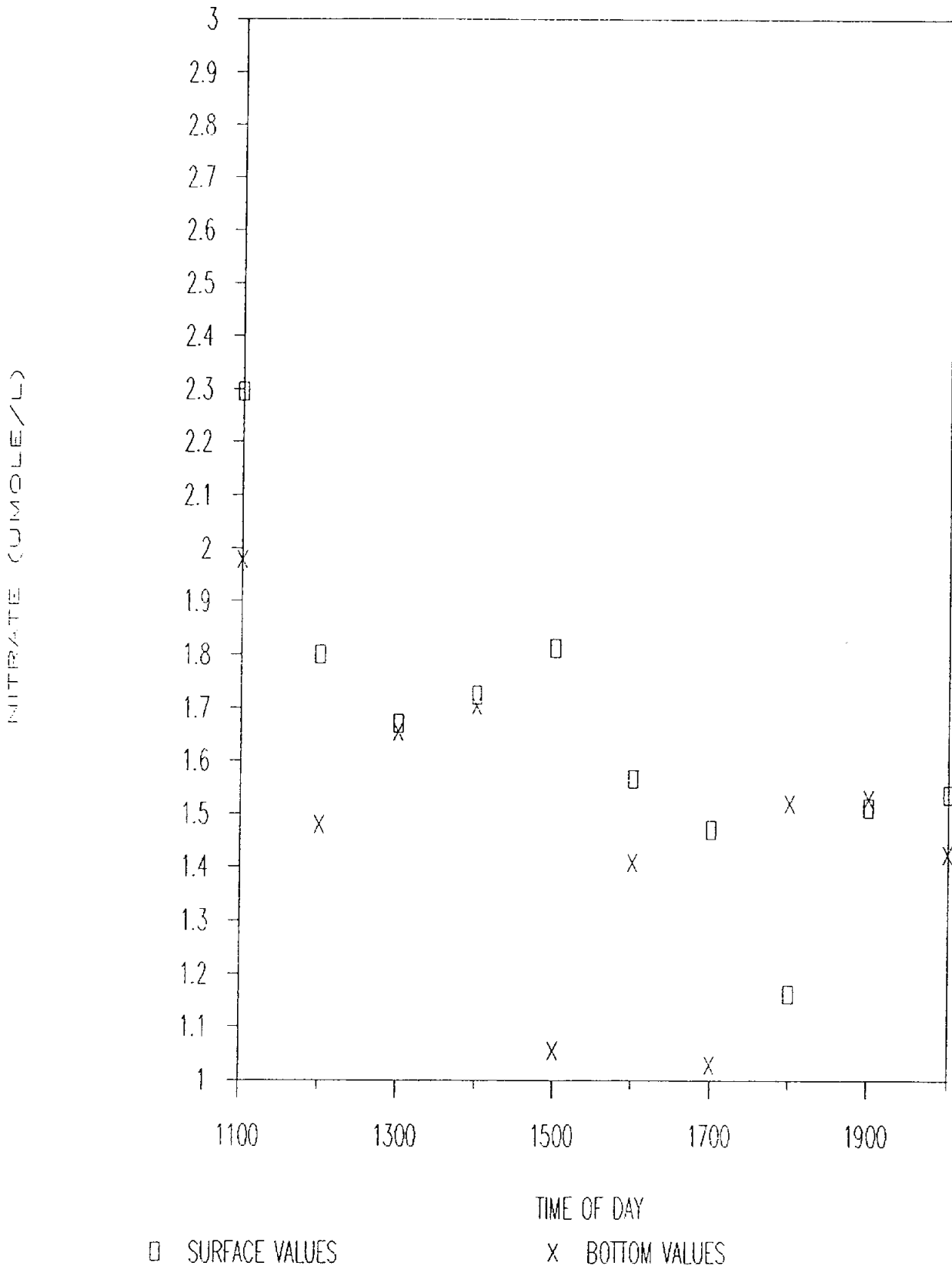
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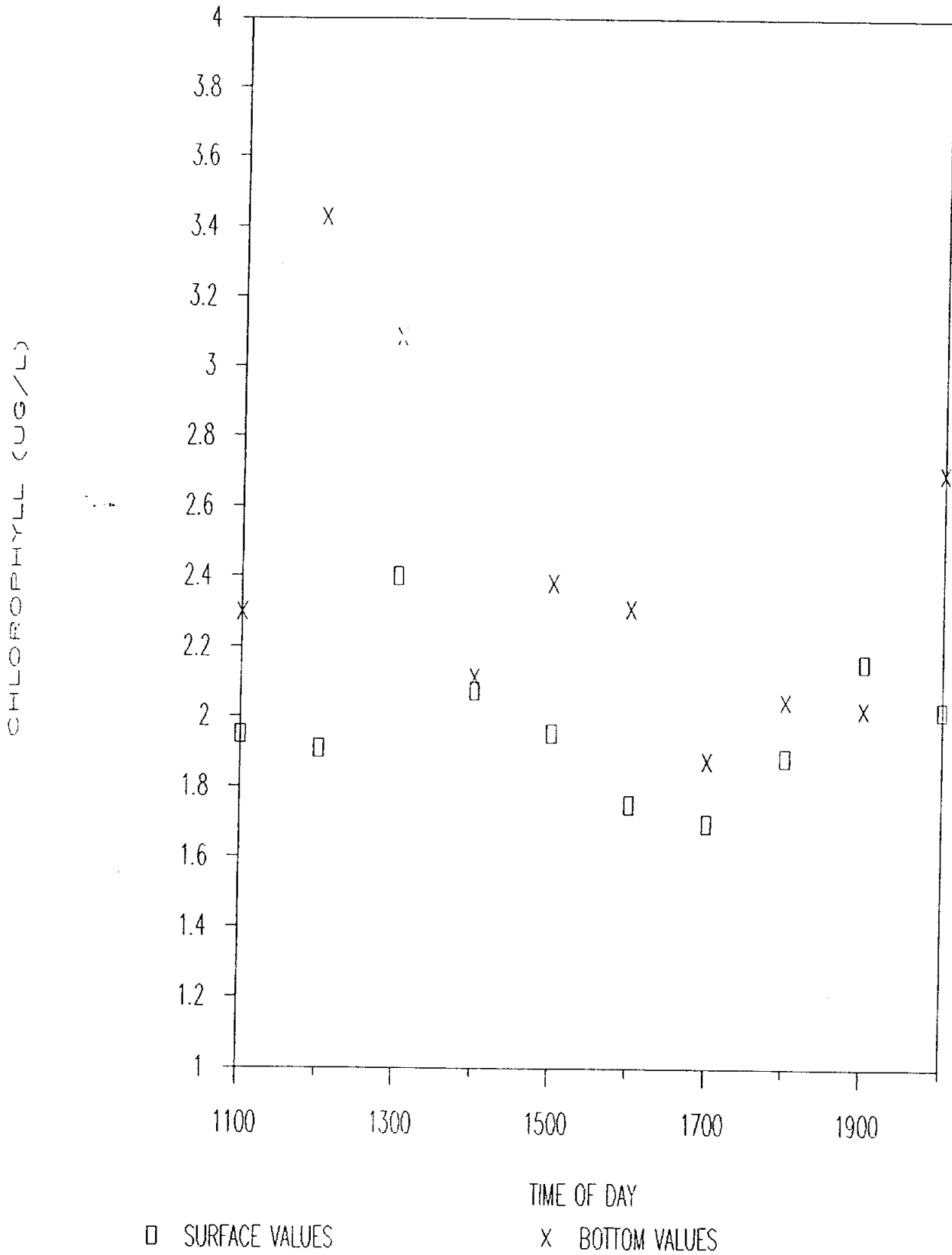
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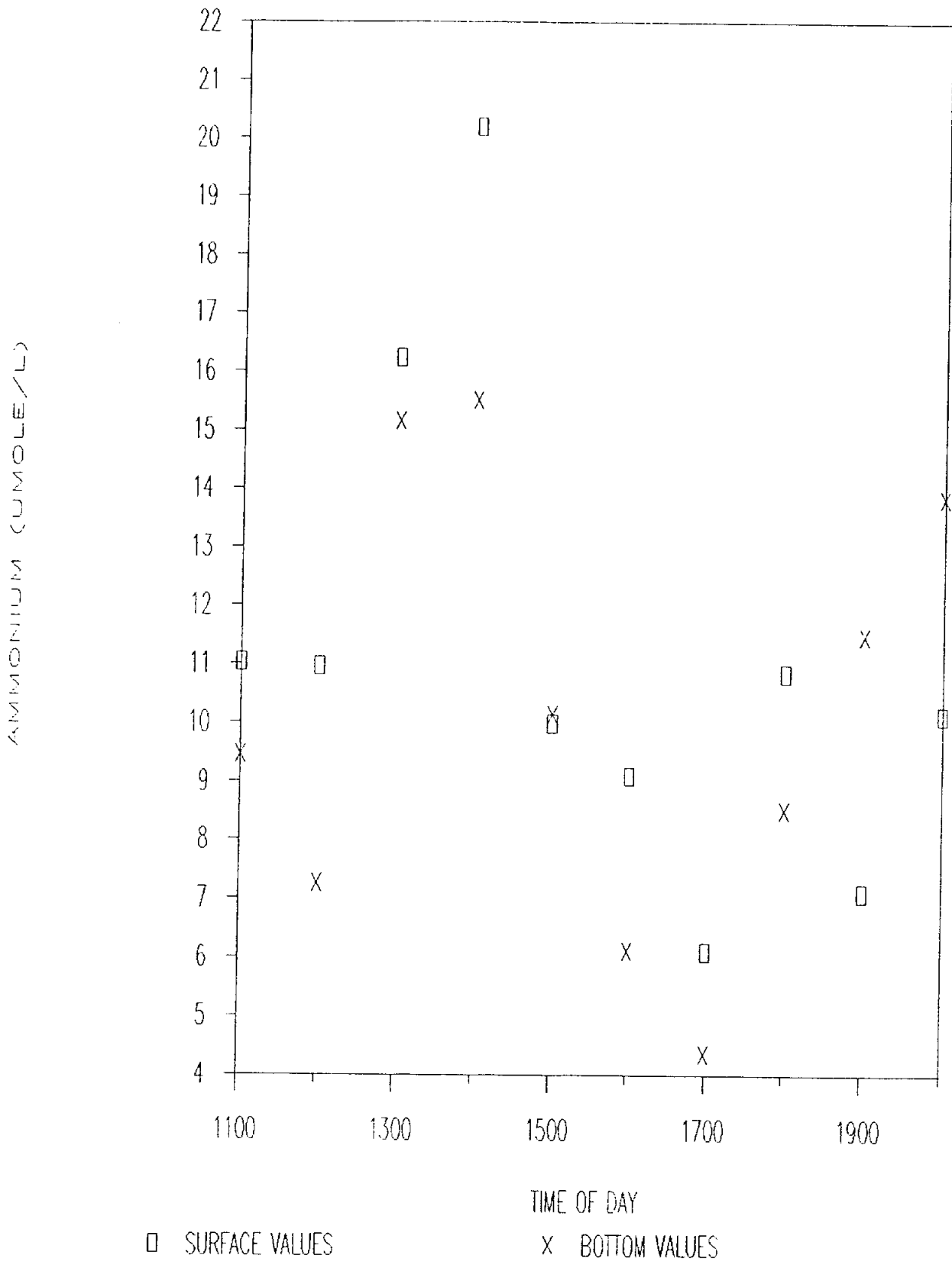
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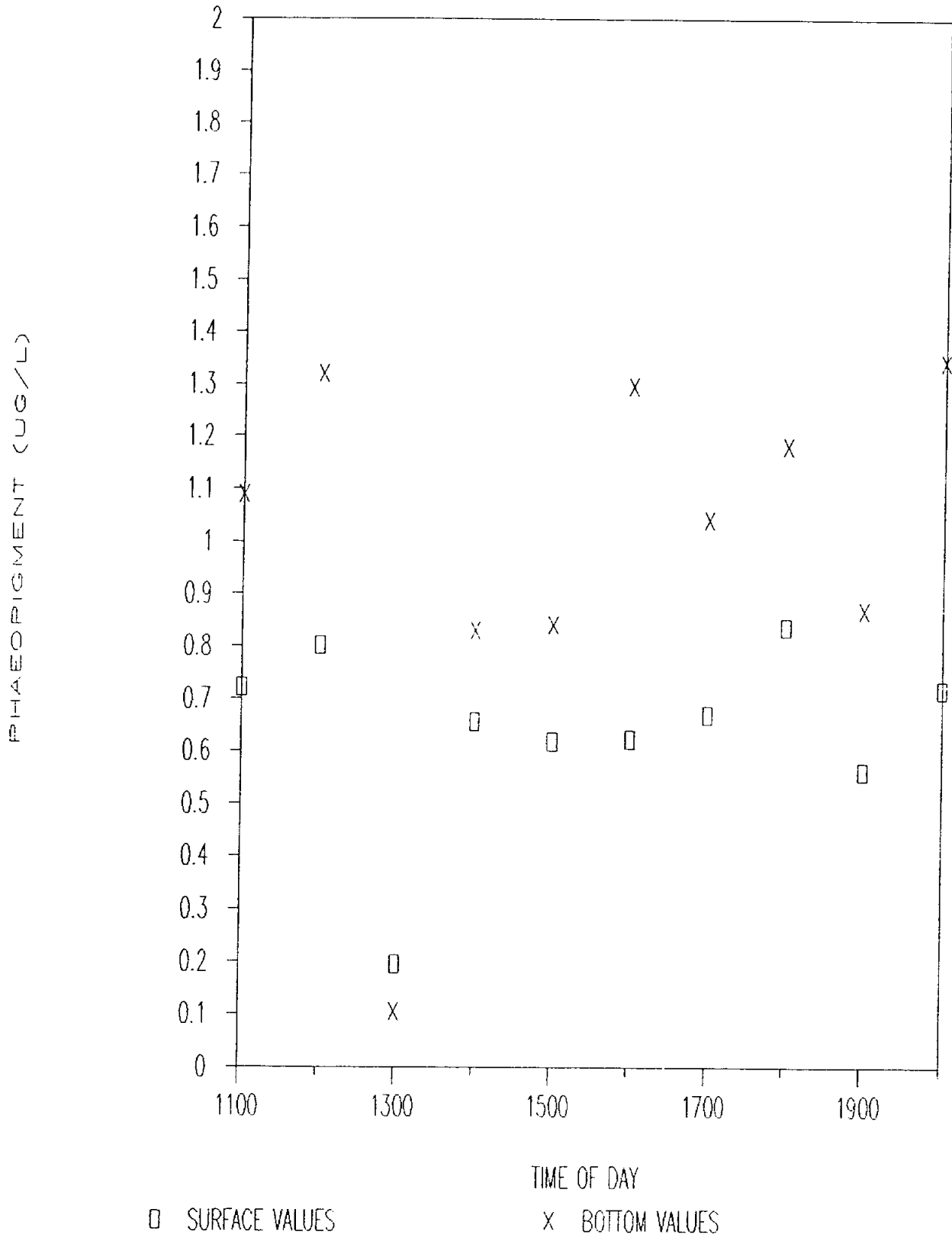
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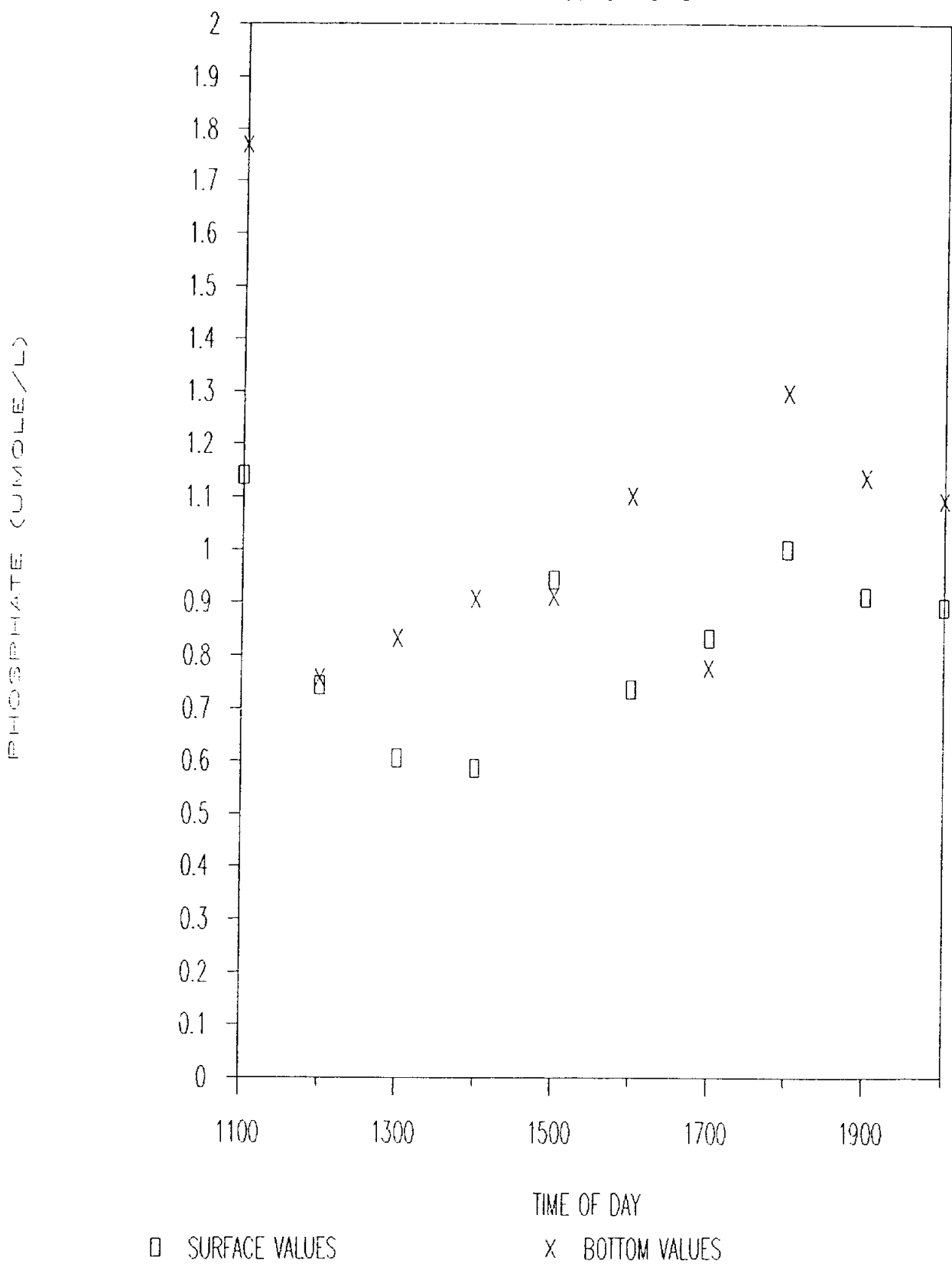


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DEC 1987 STATION D

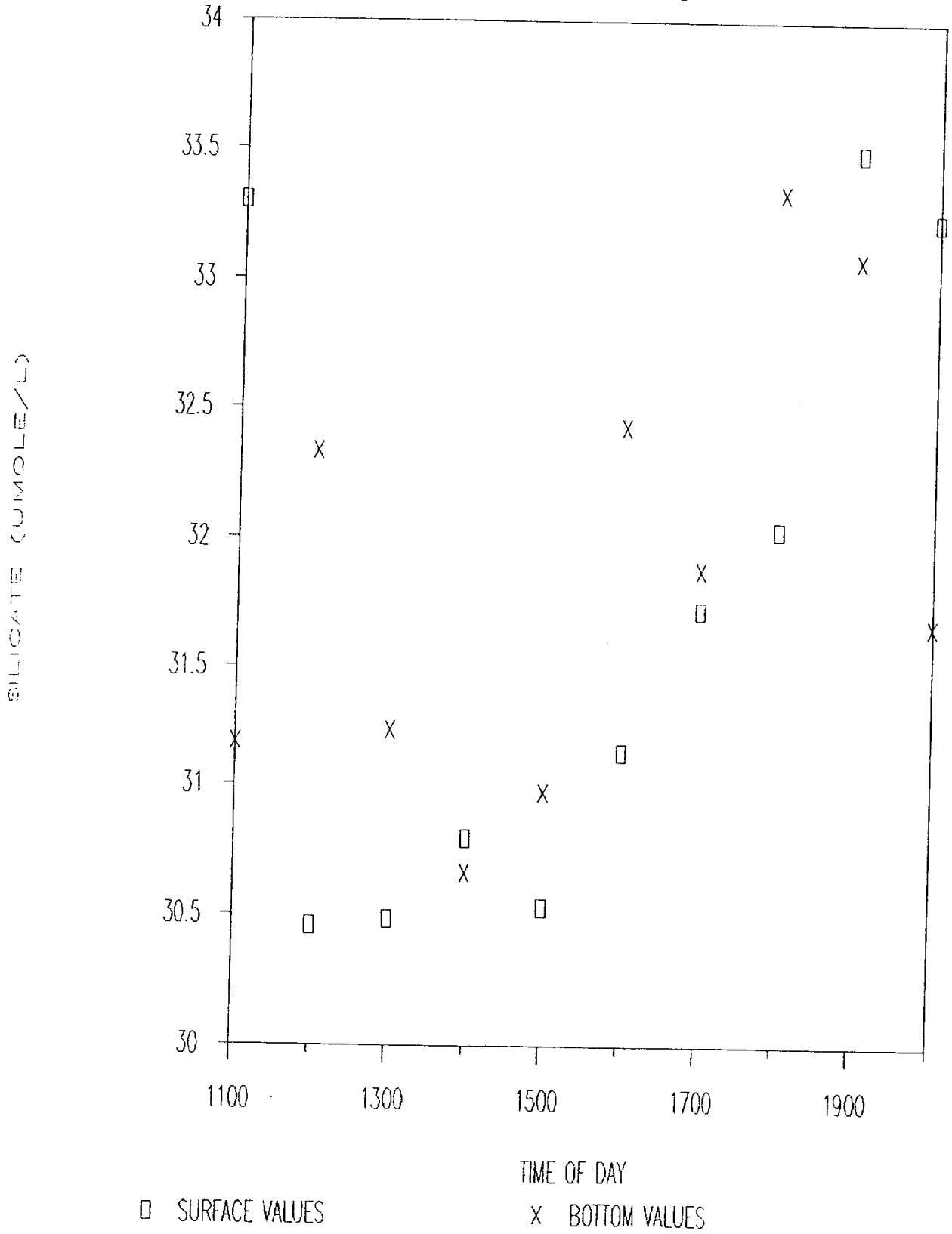


□ SURFACE VALUES

x BOTTOM VALUES

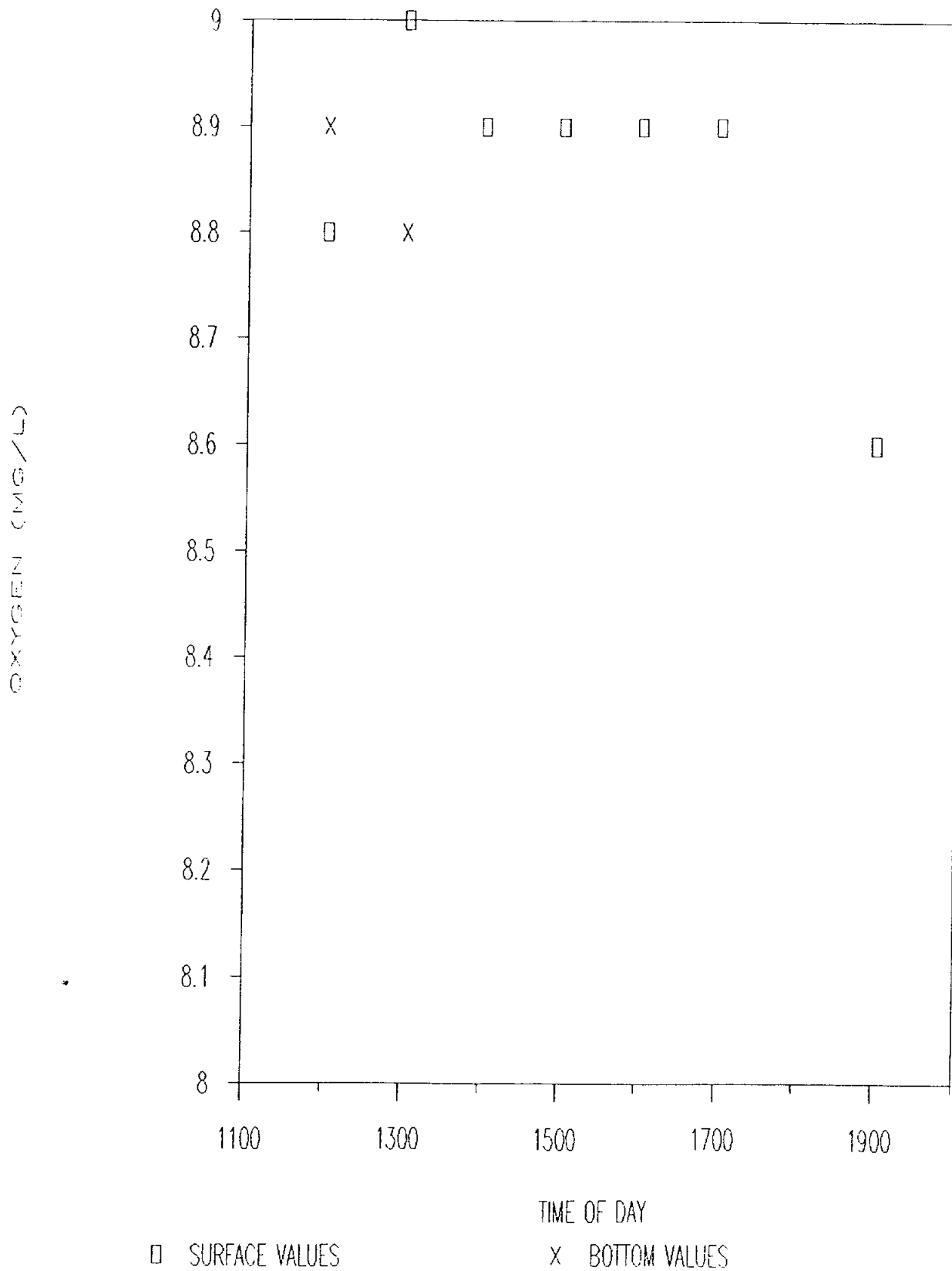
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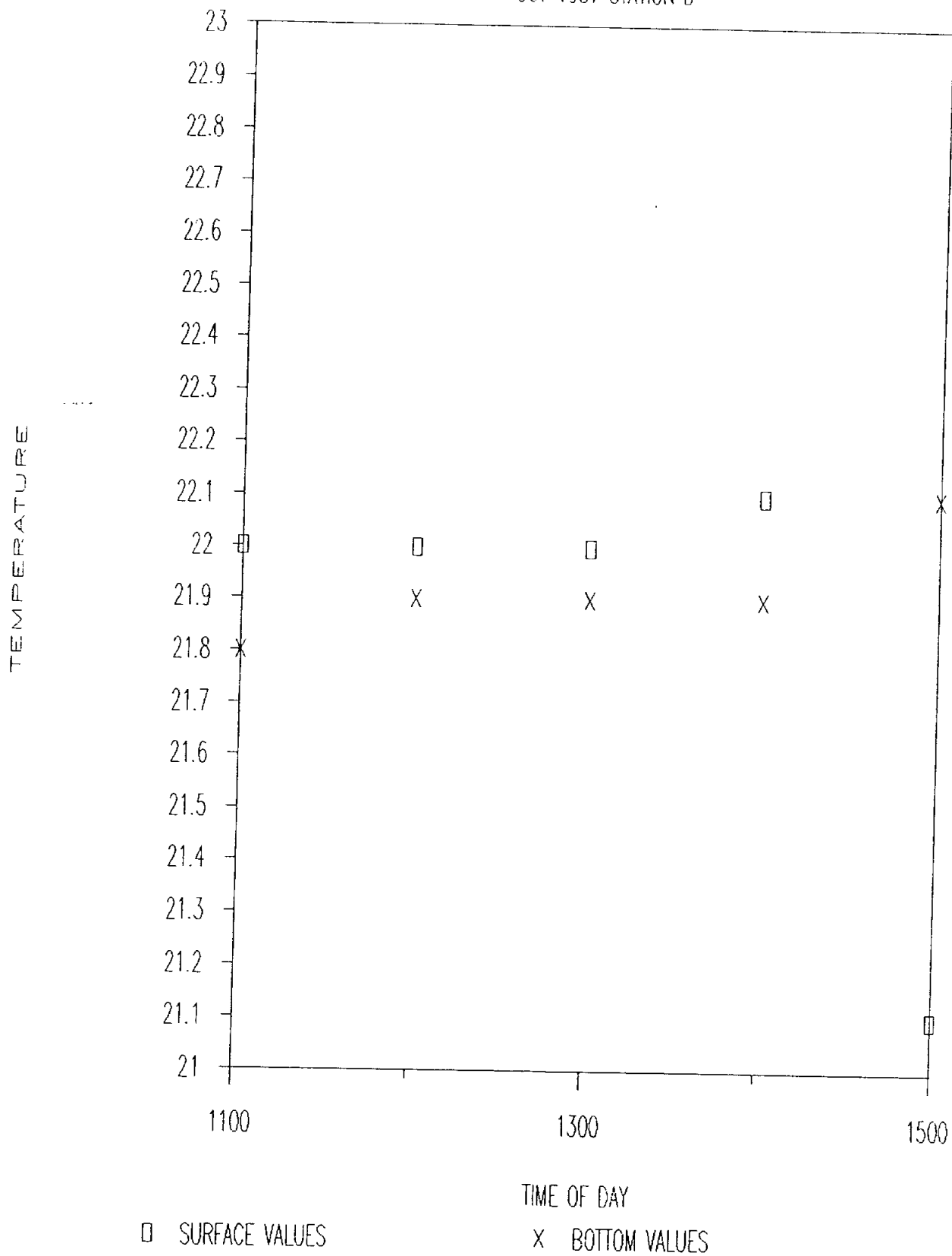
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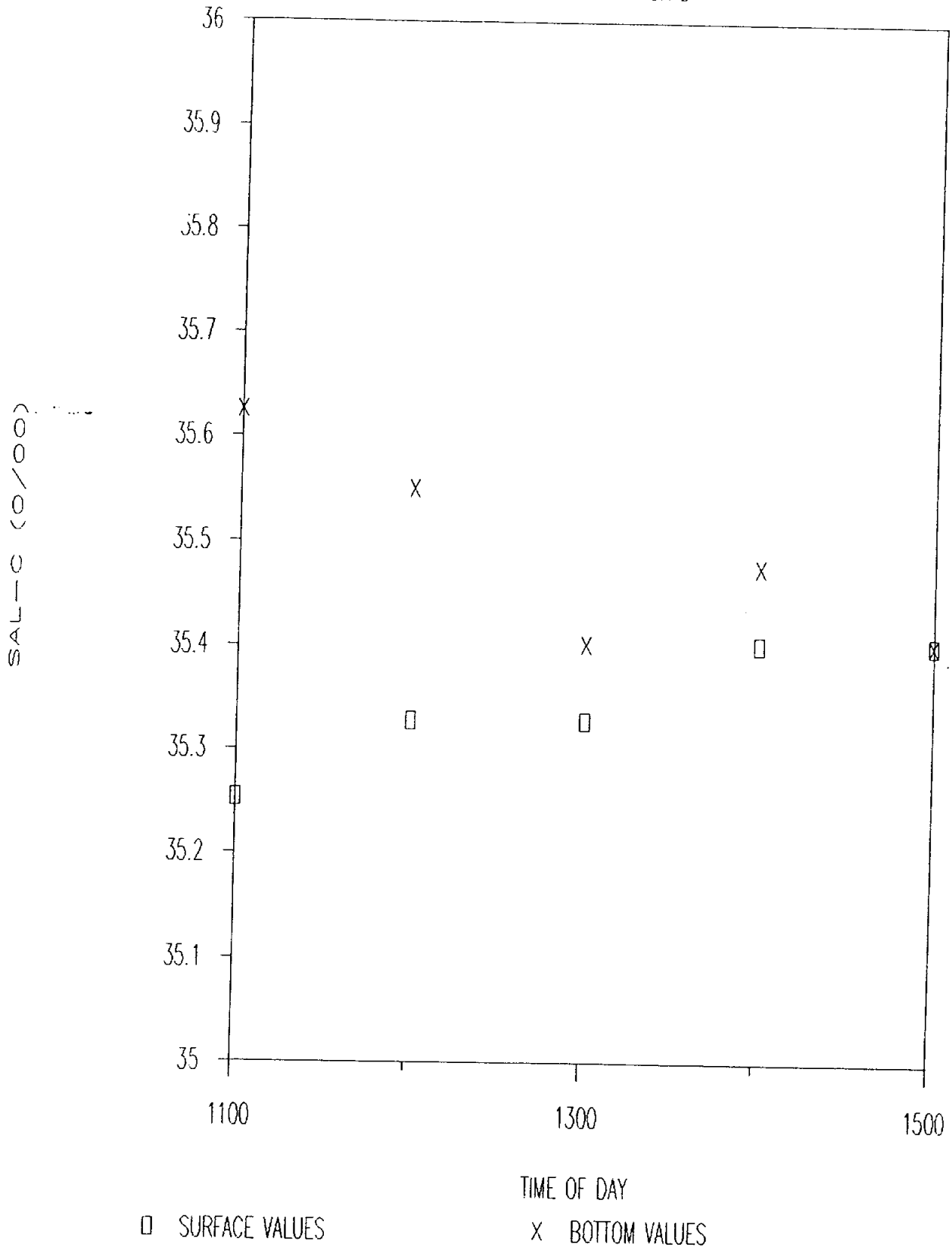
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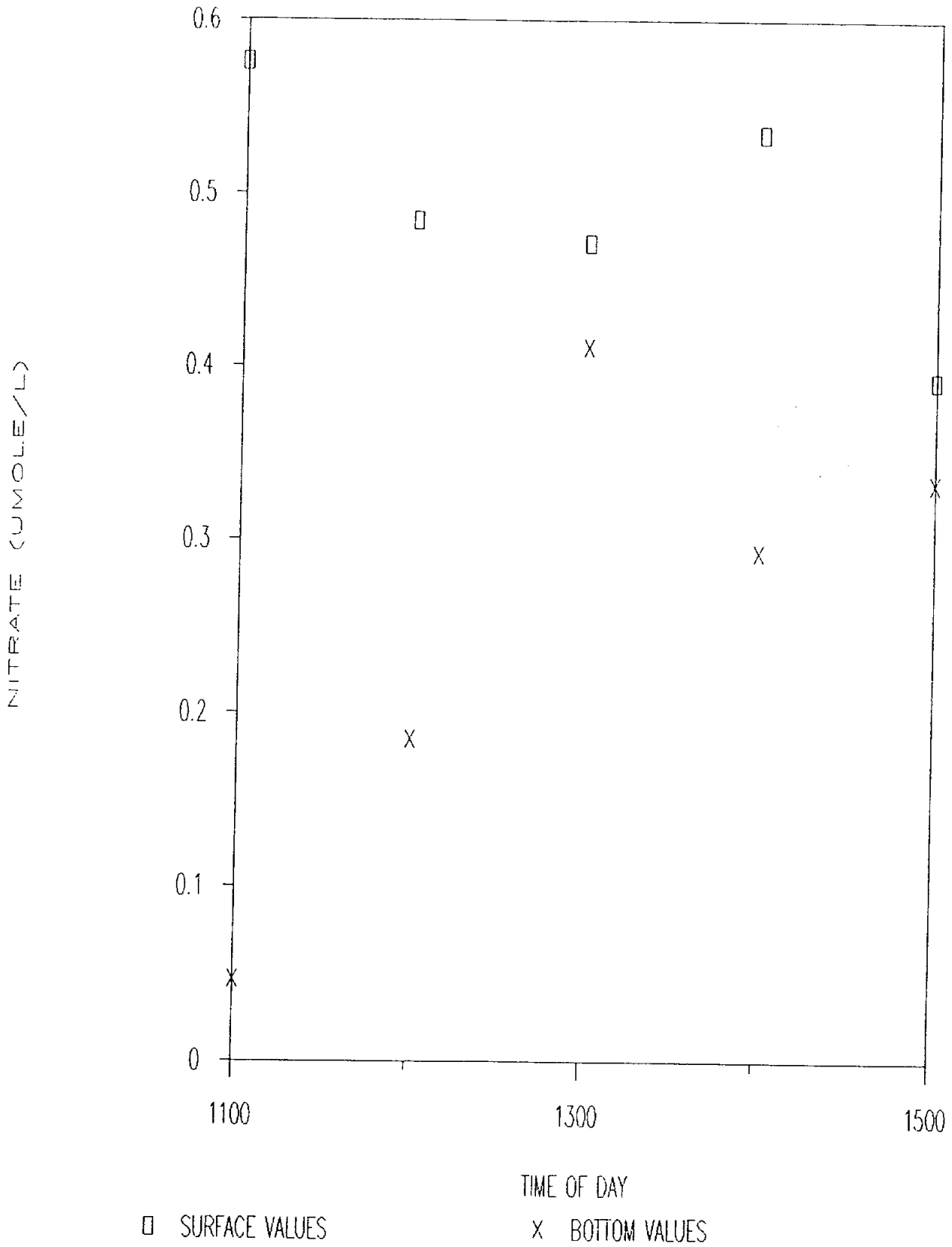
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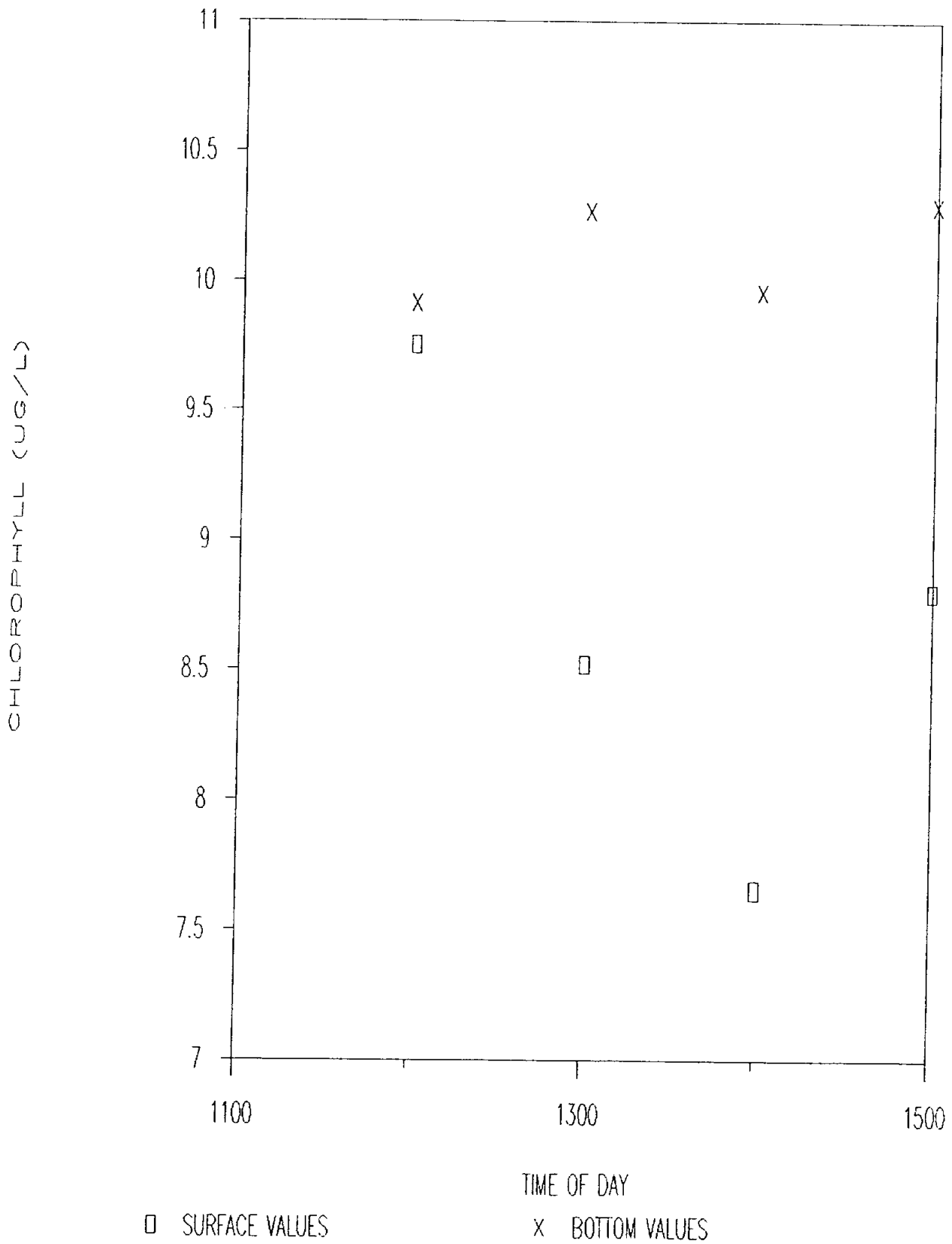
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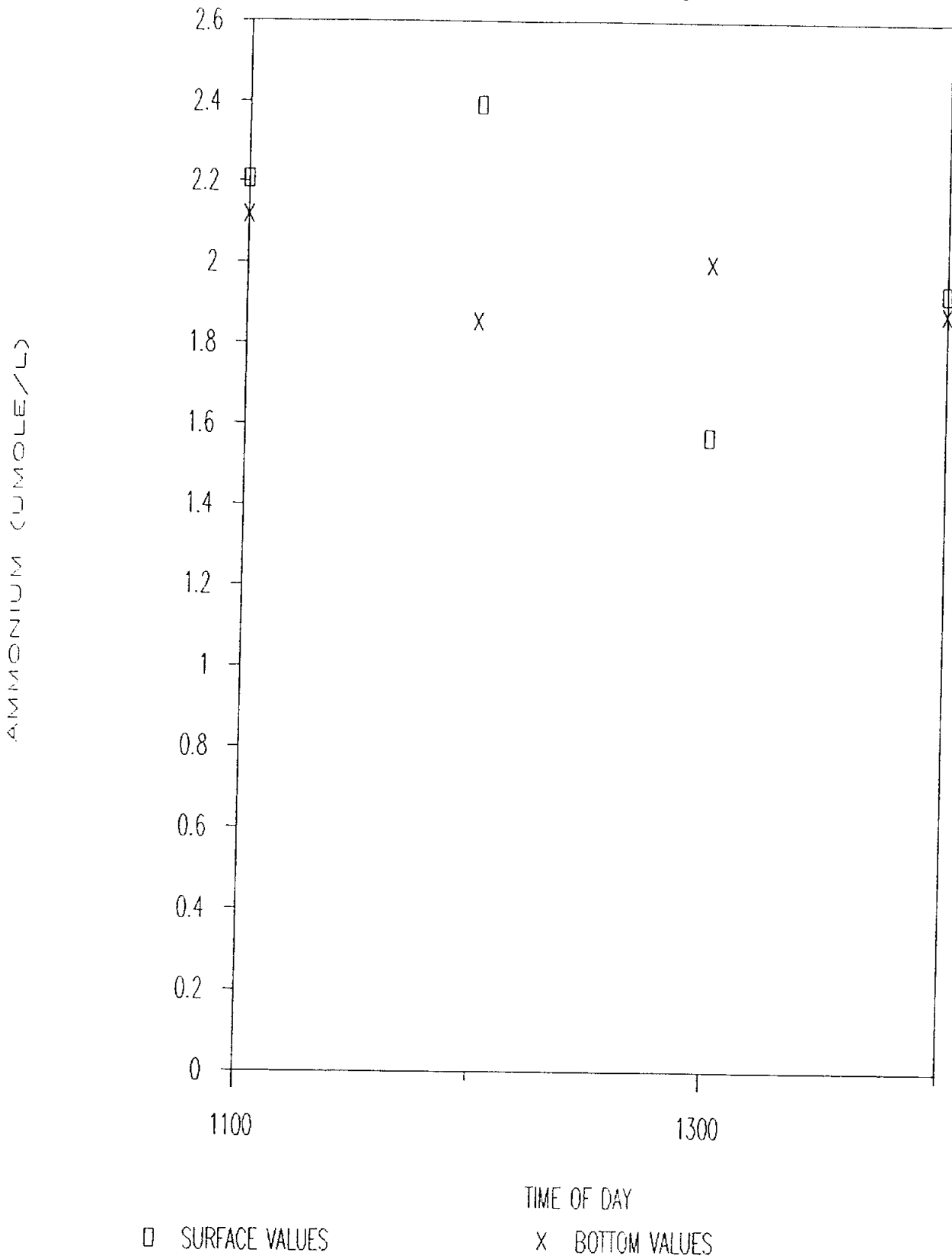
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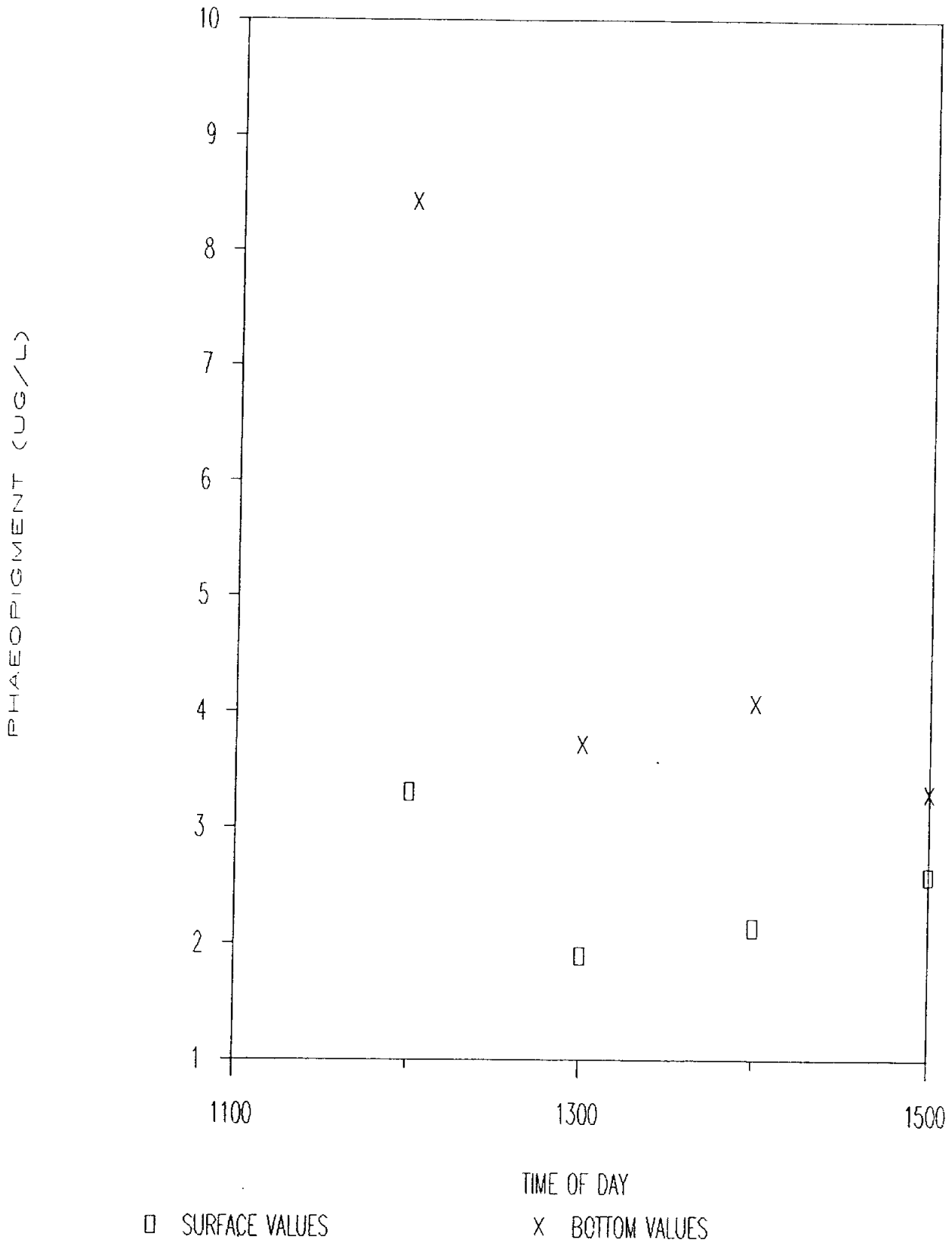
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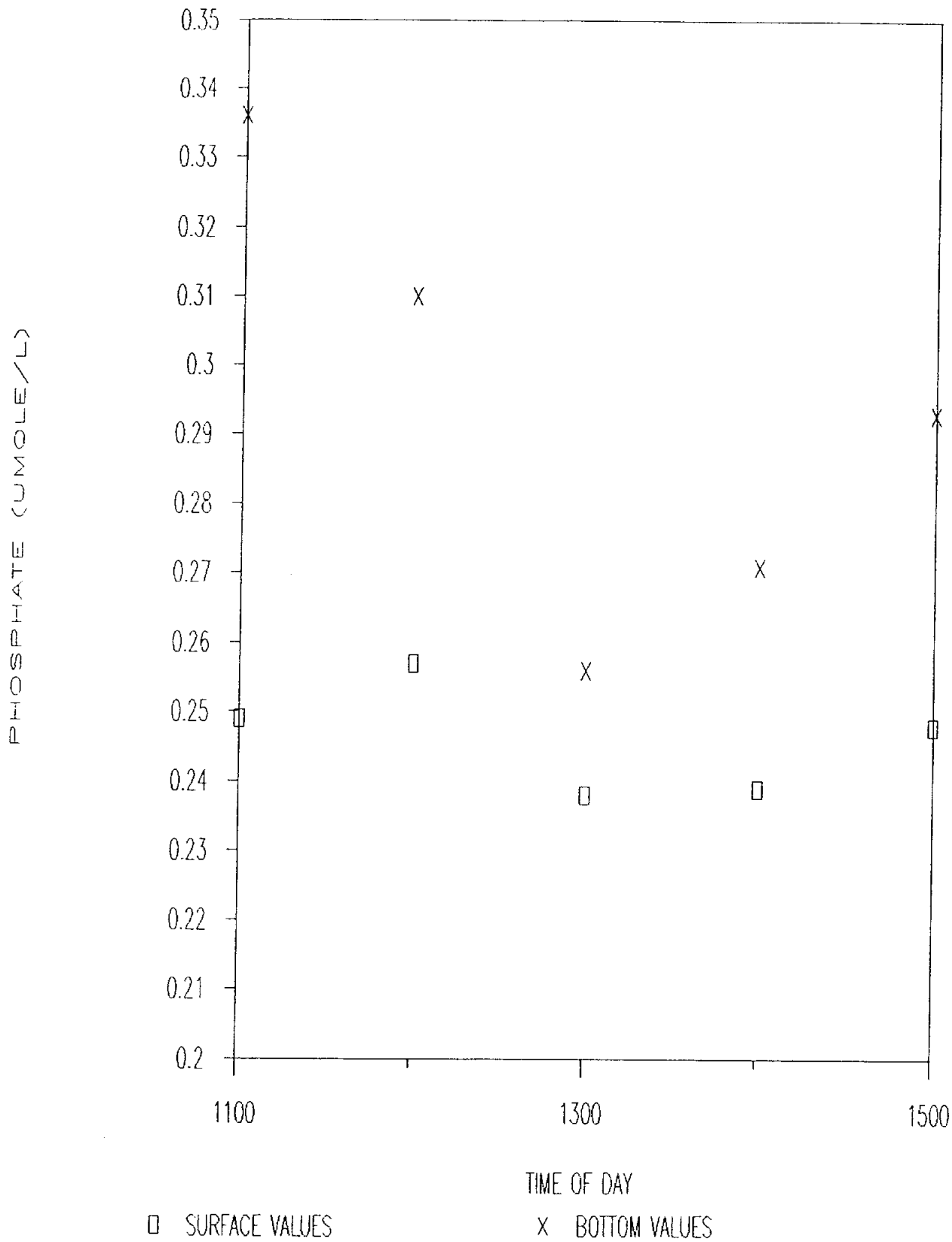
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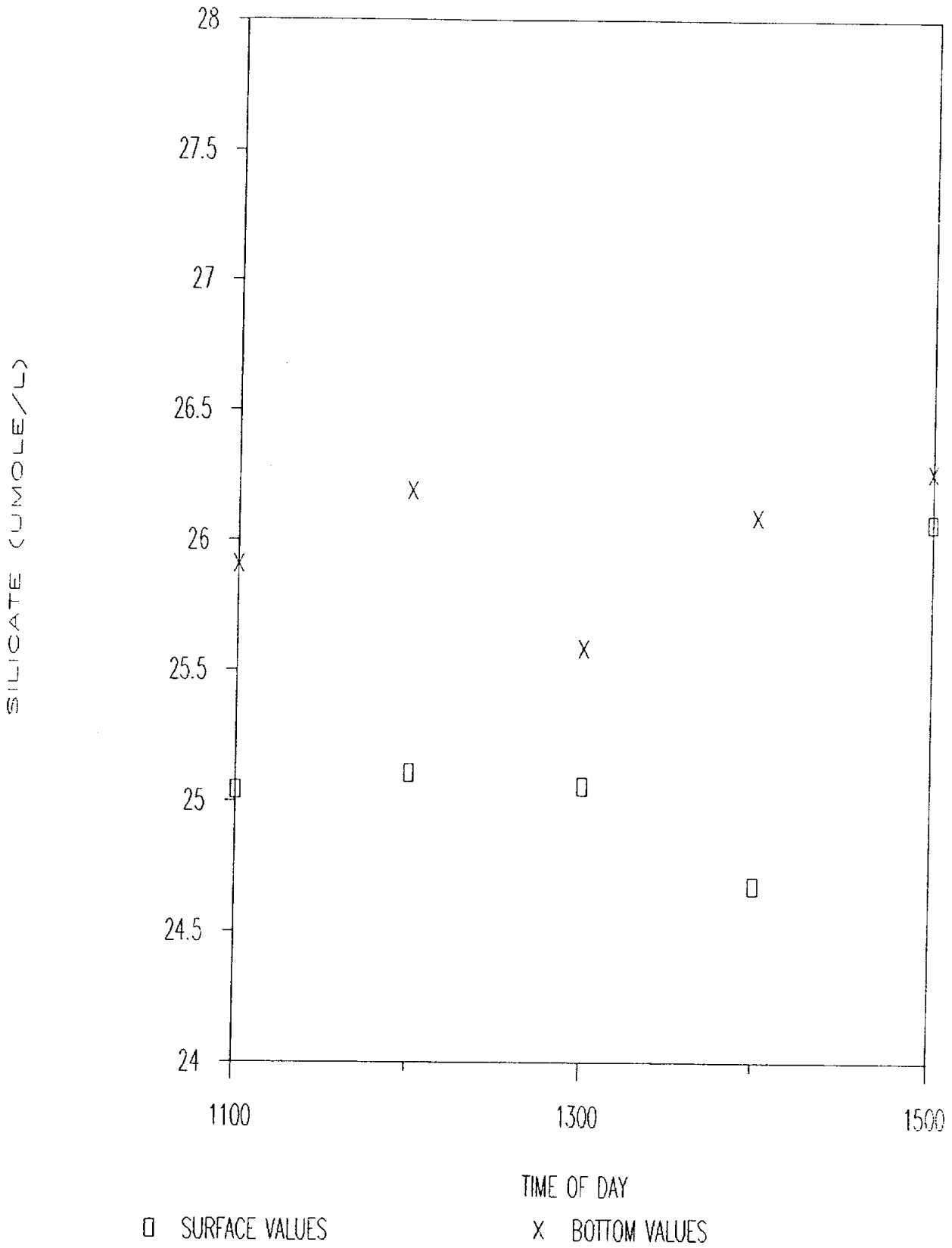
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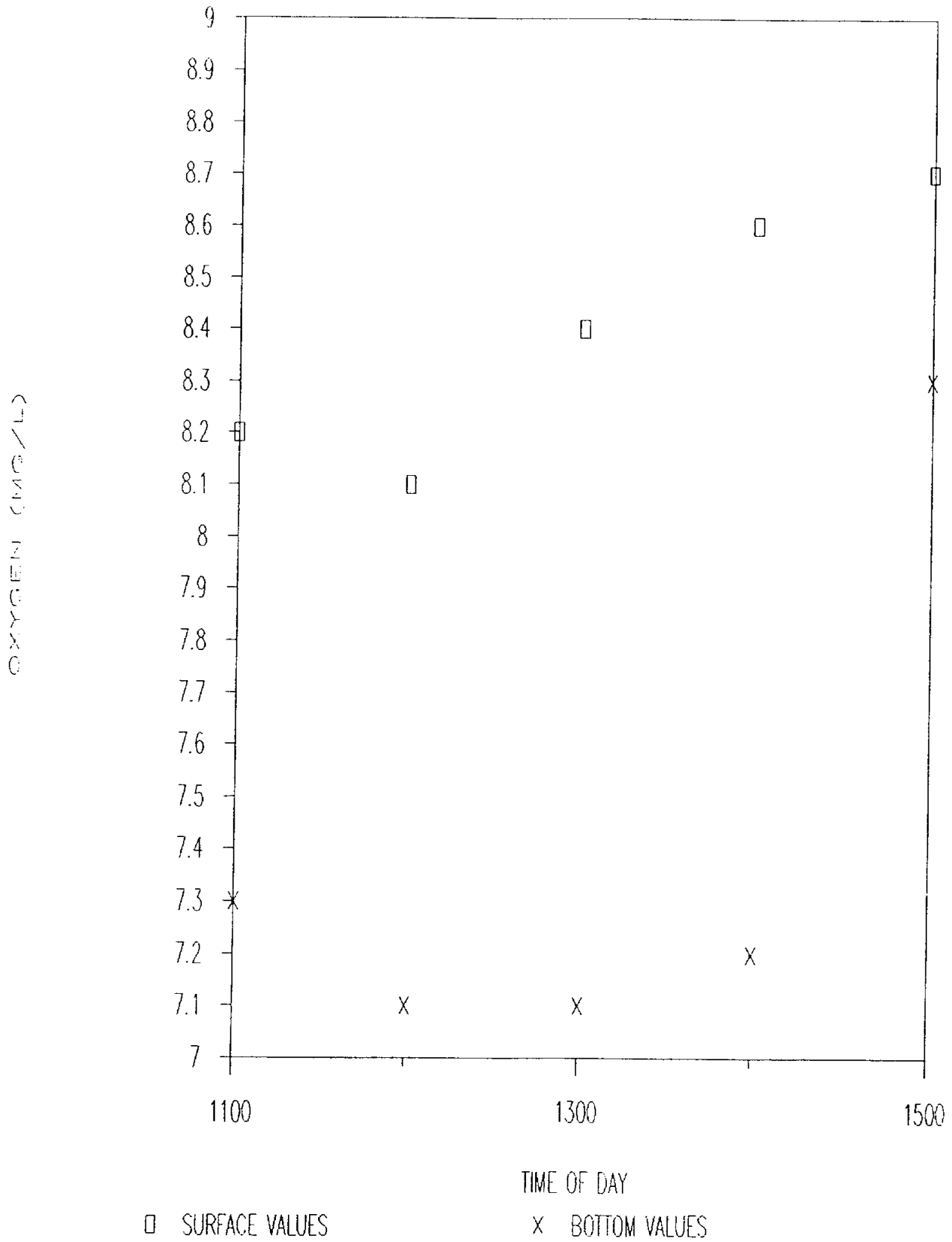
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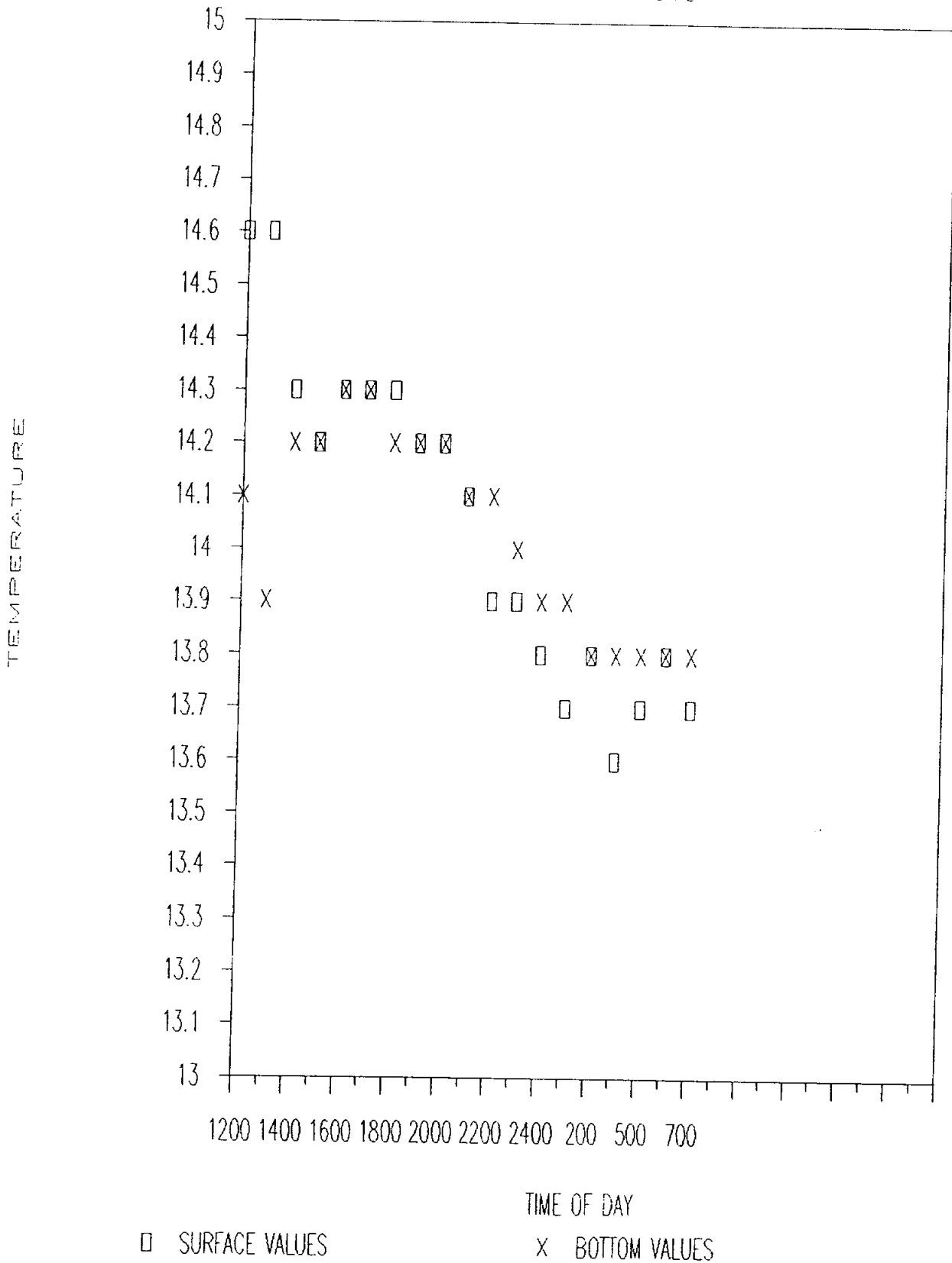
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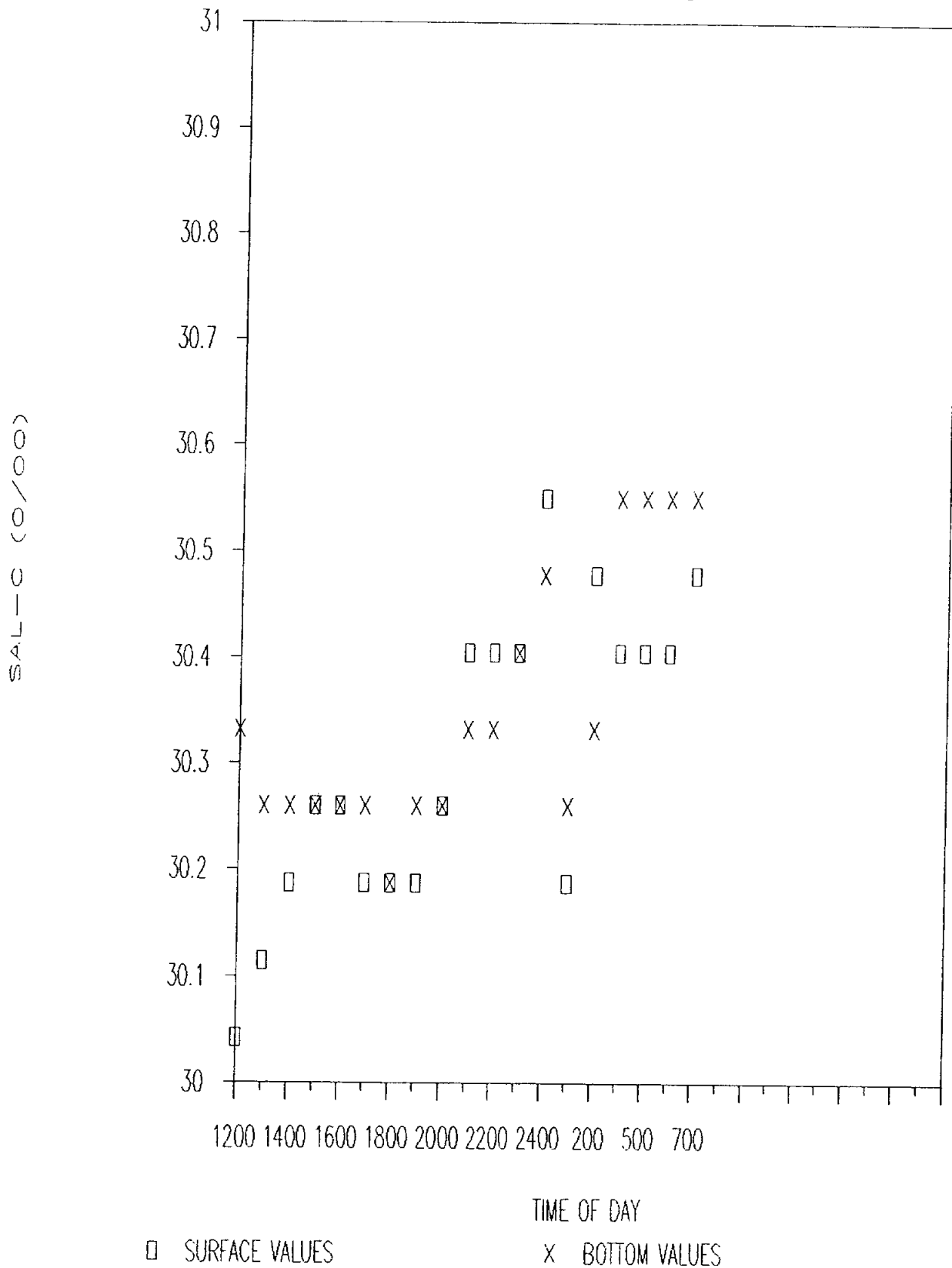
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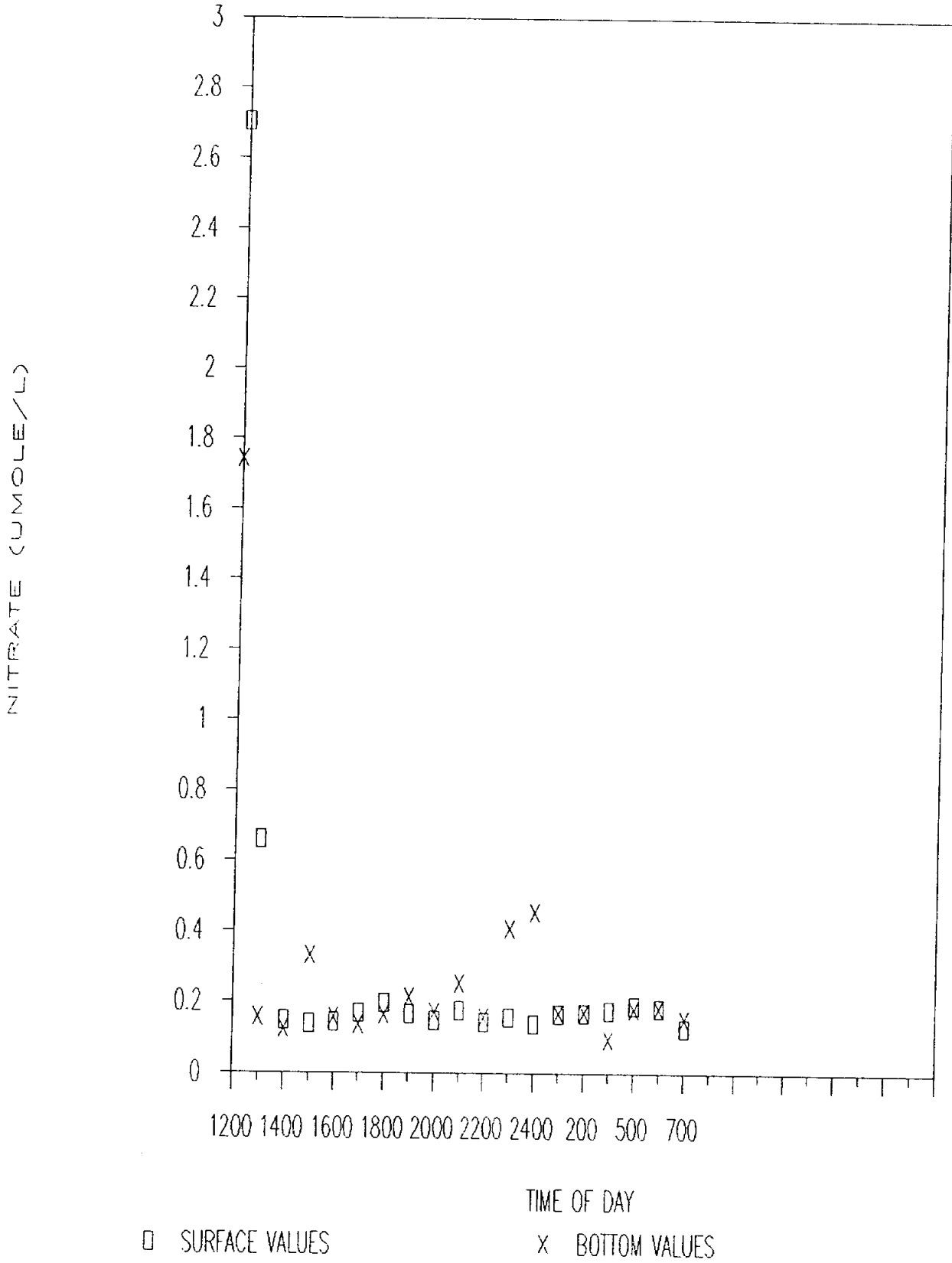
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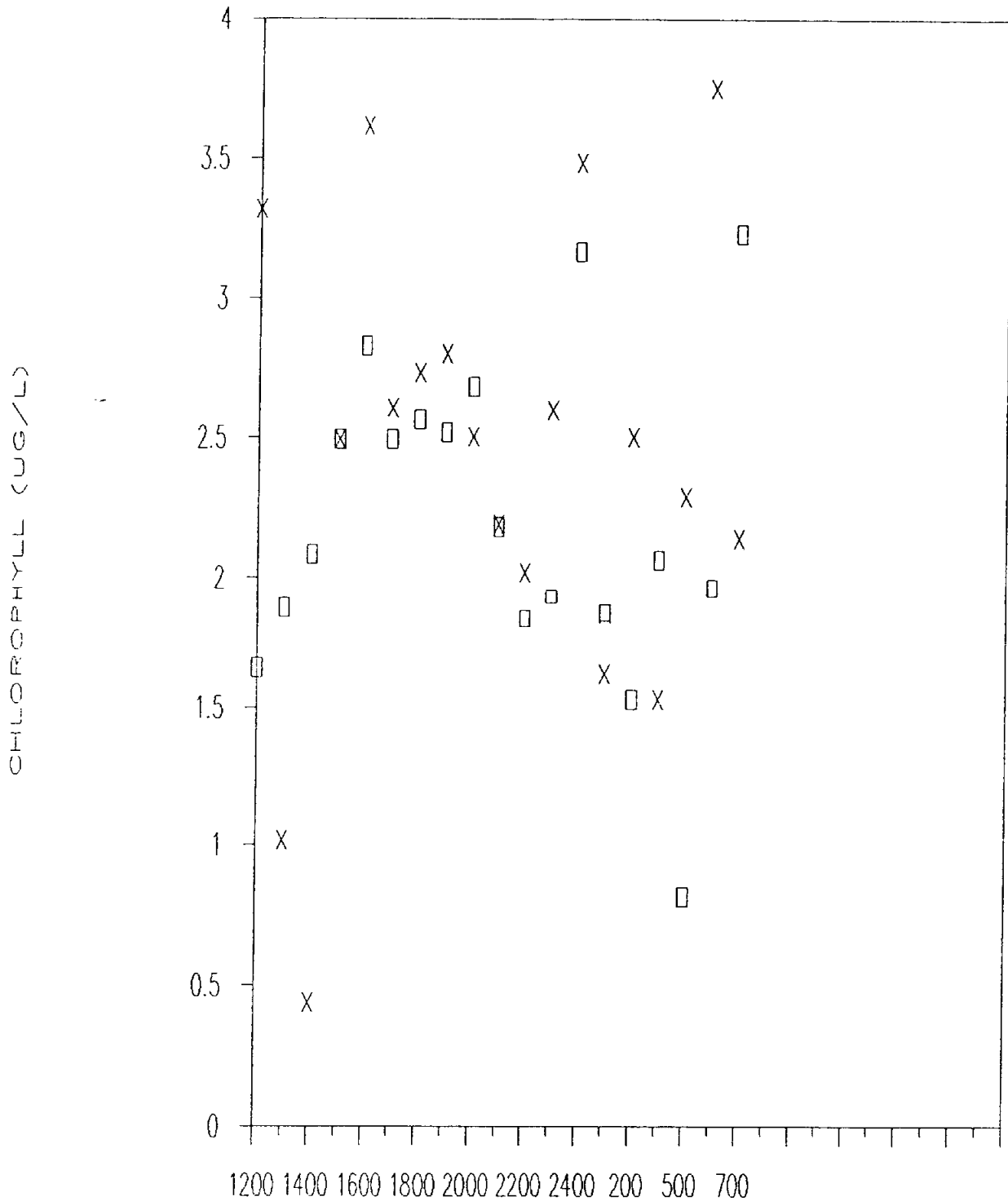
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CORPUS CHRISTI/NUECES BAYS

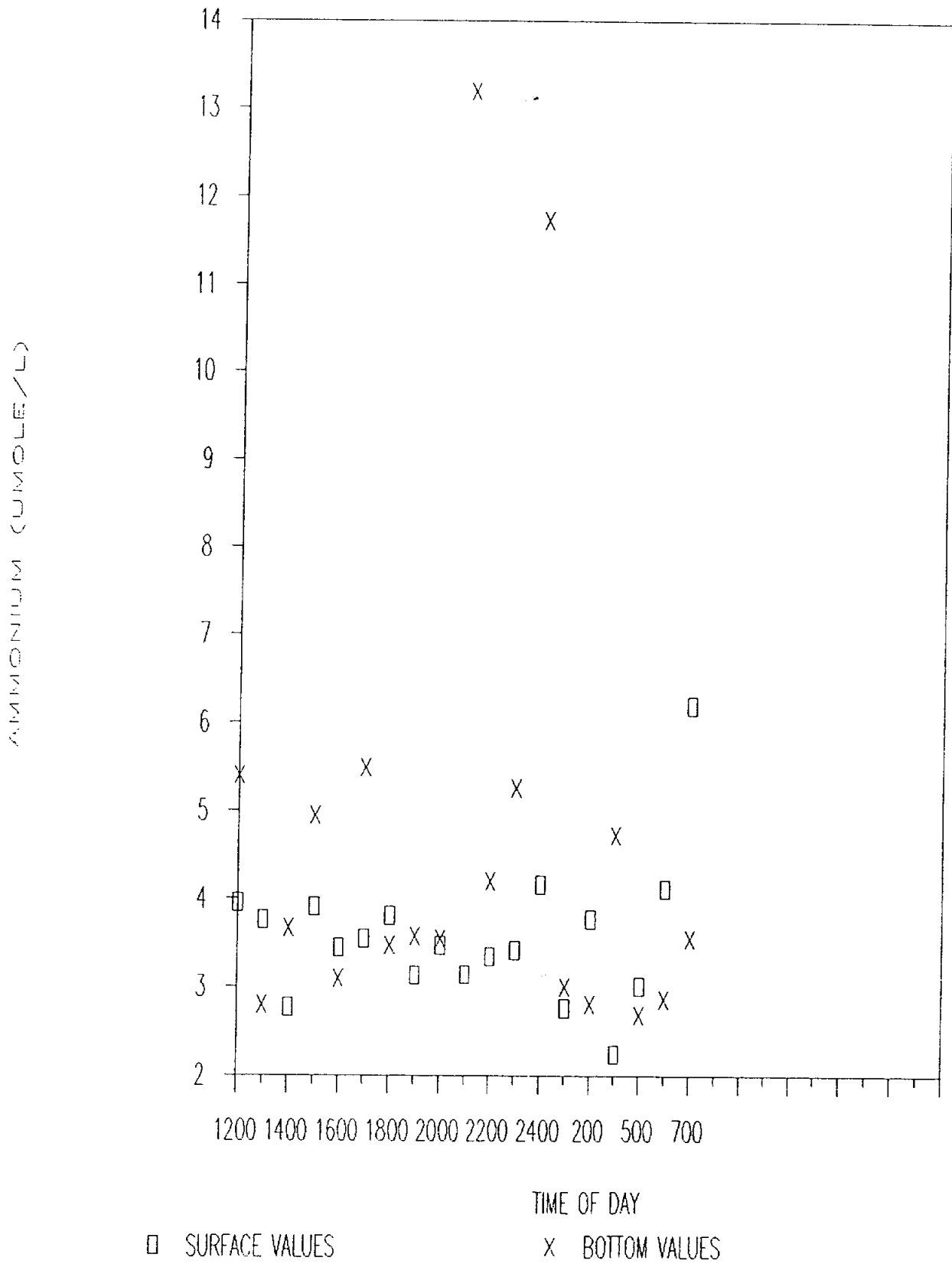
FEB 1988 STATION D



□ SURFACE VALUES
X BOTTOM VALUES

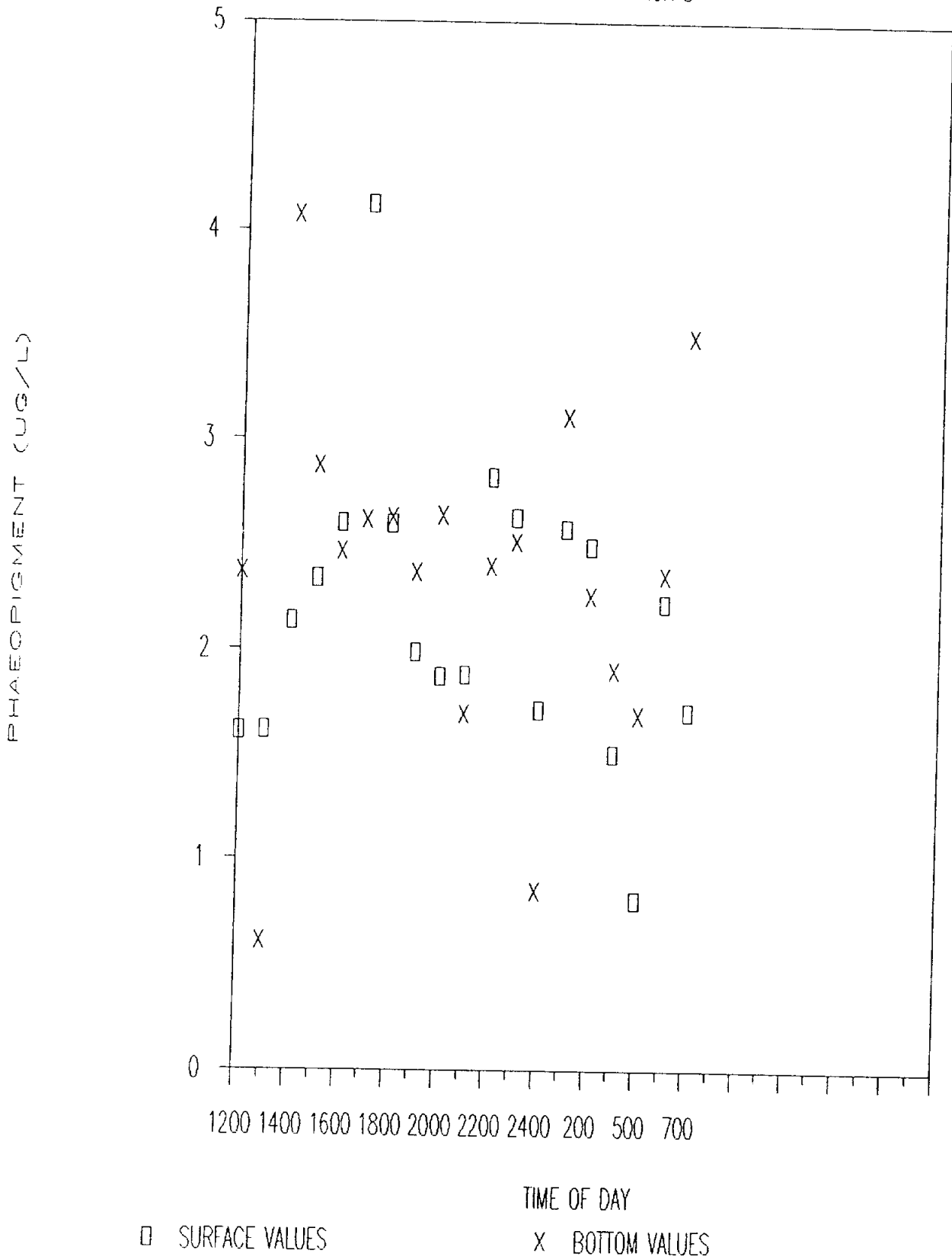
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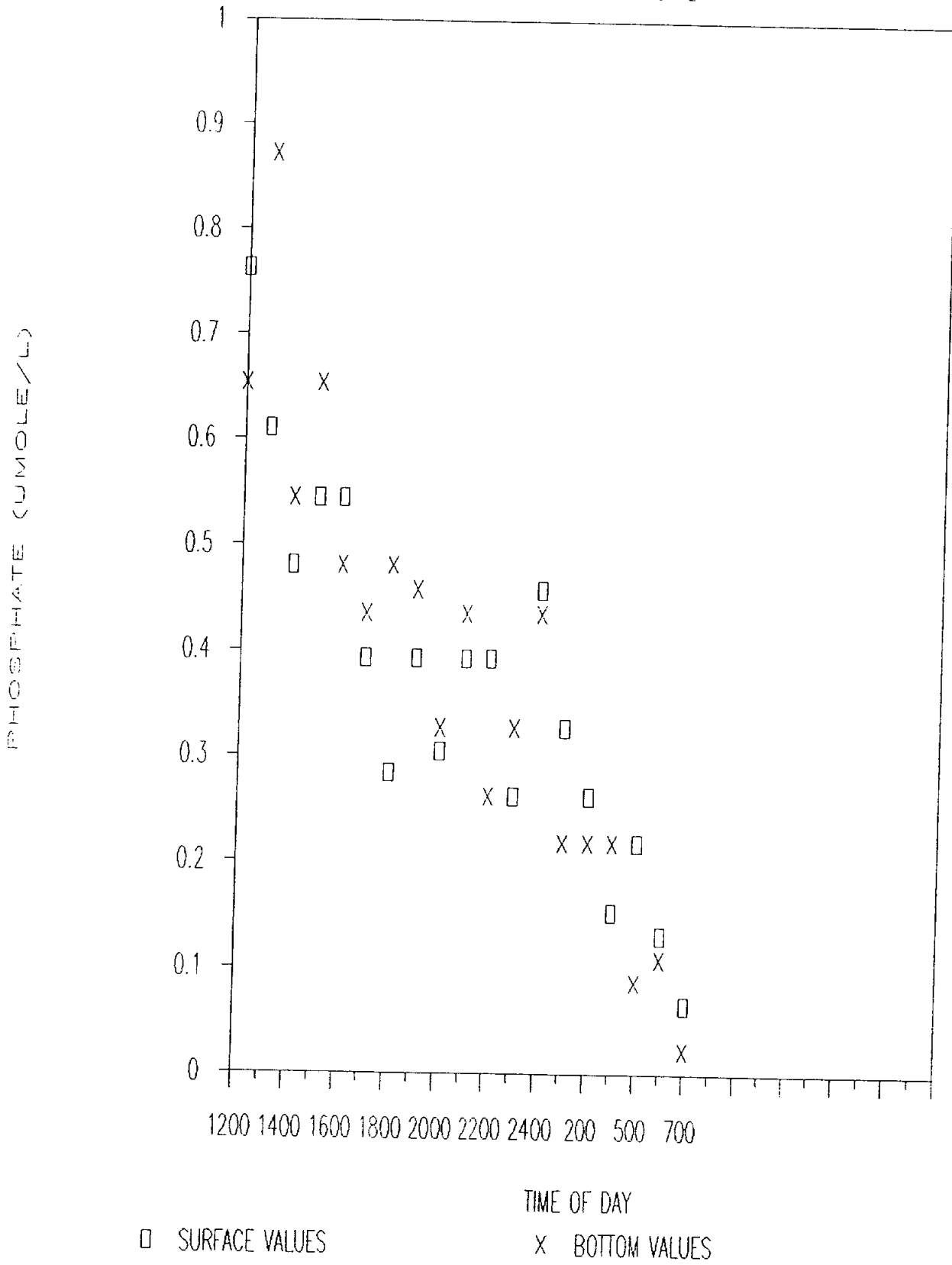
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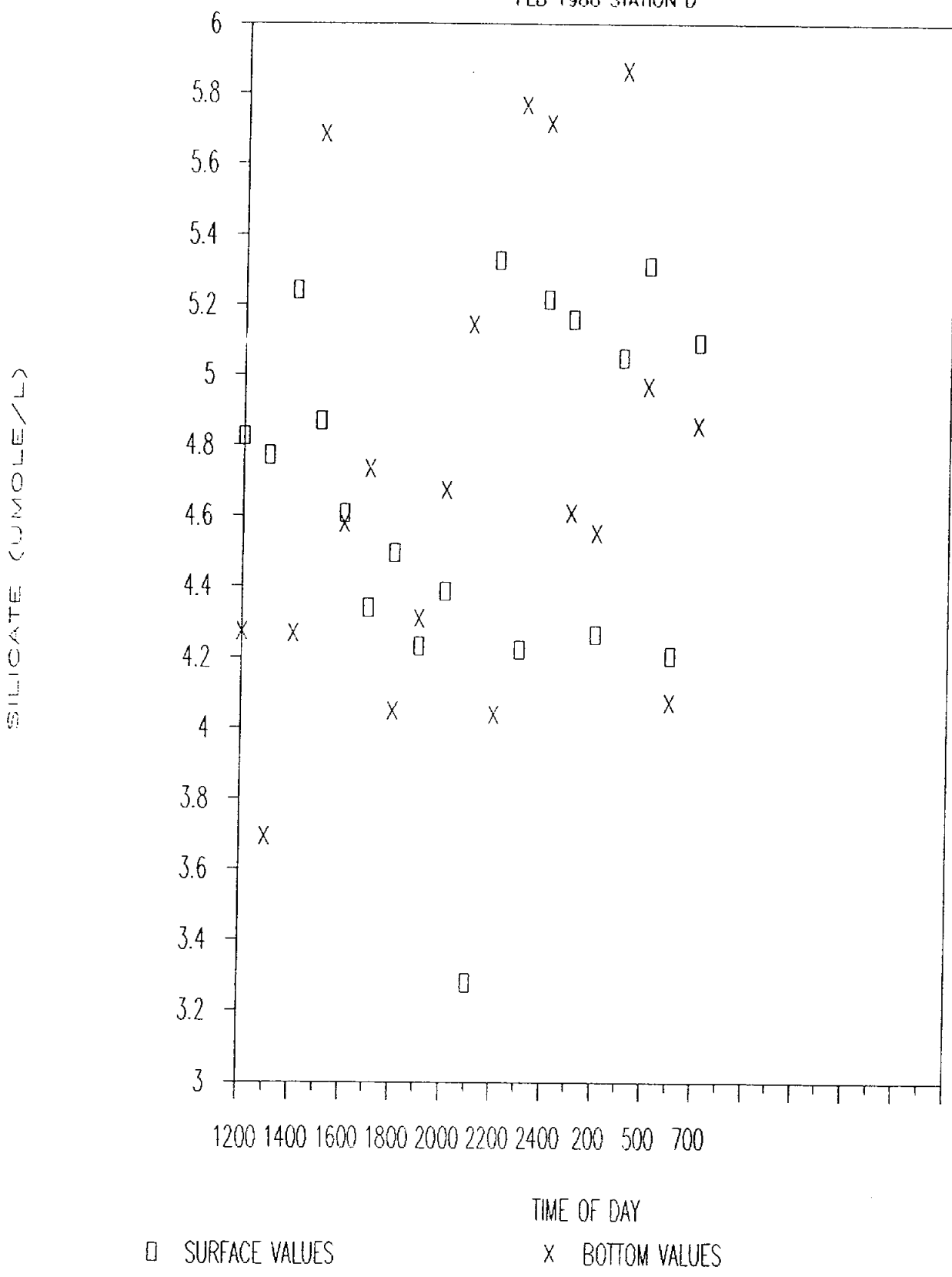
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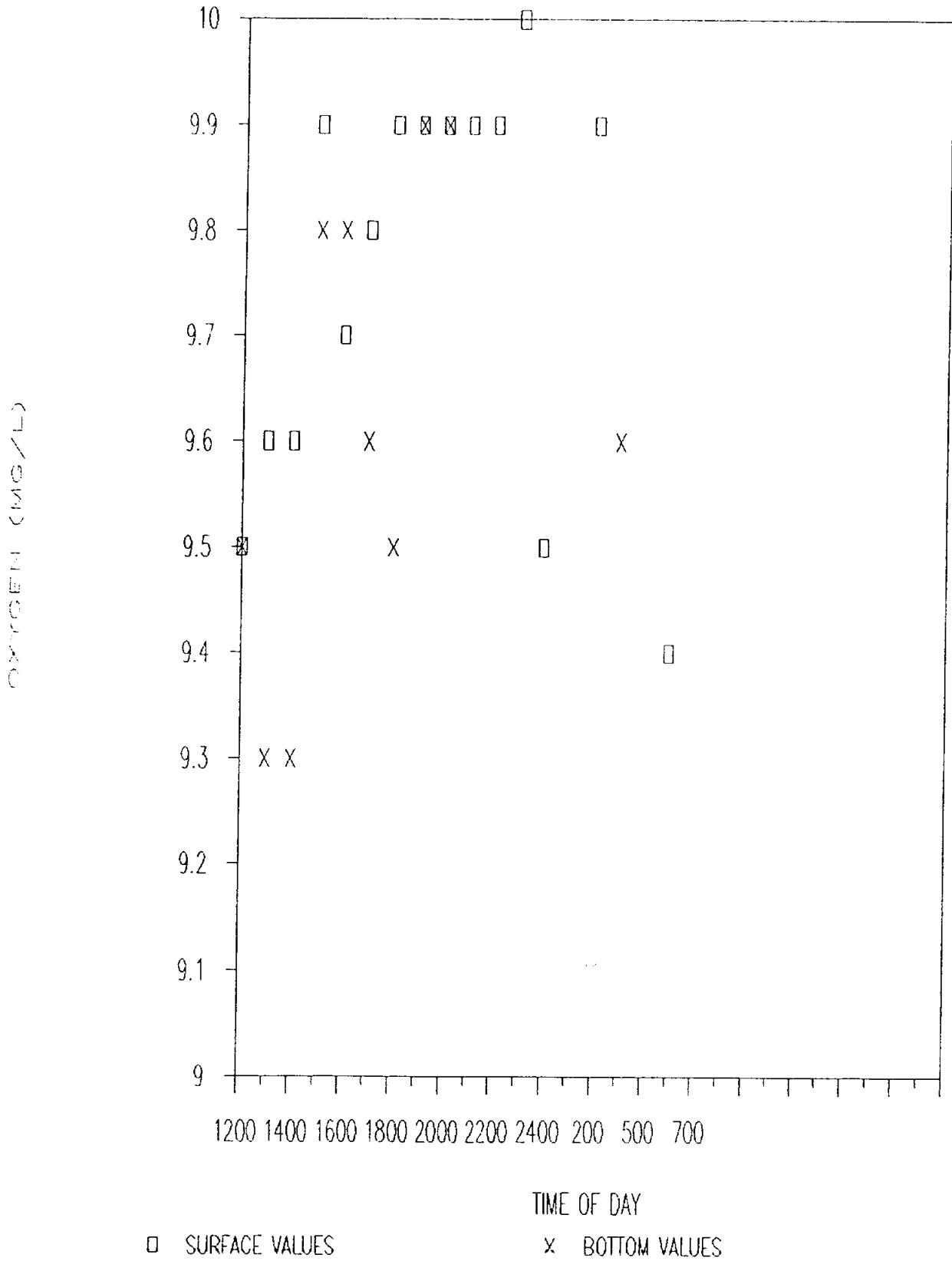
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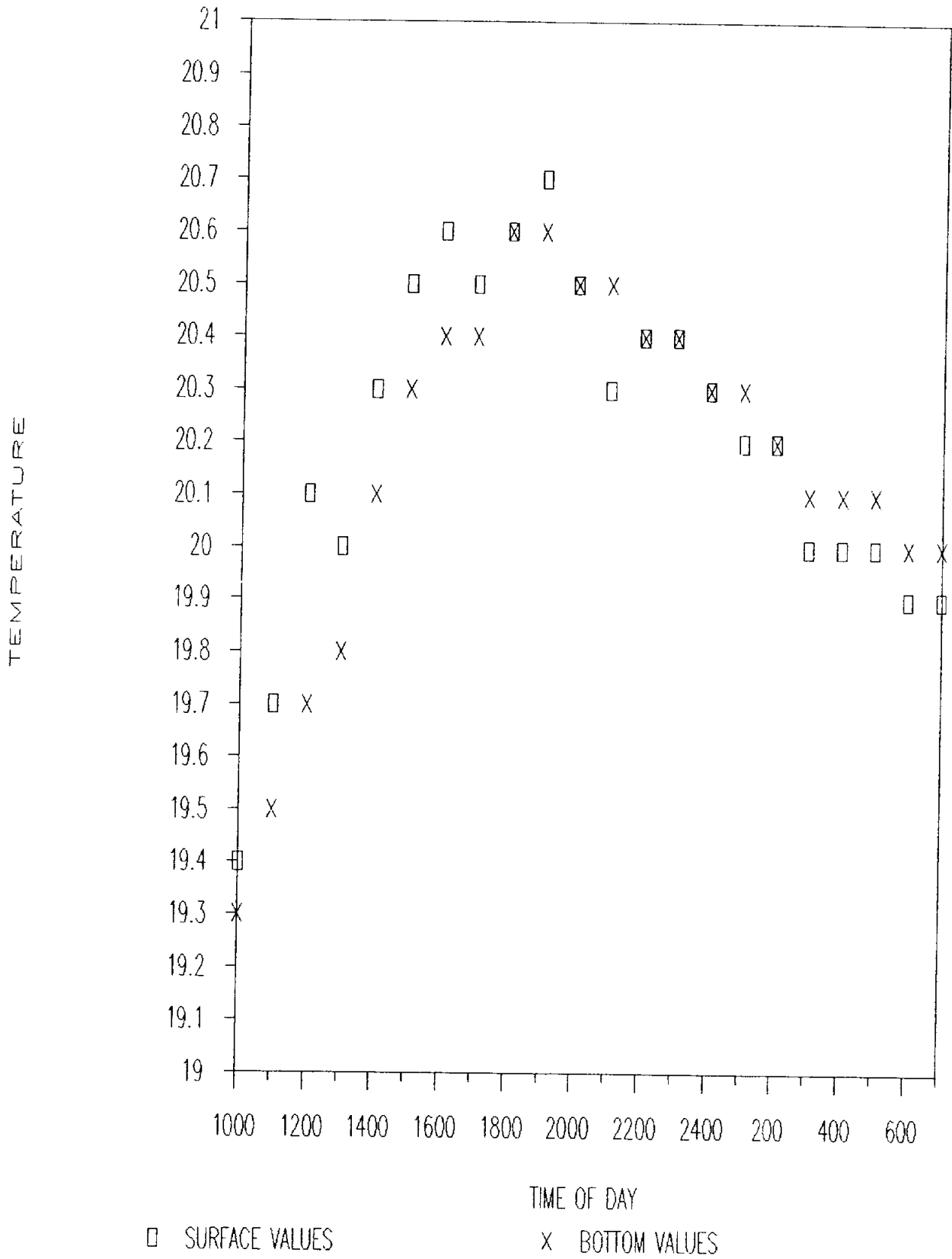
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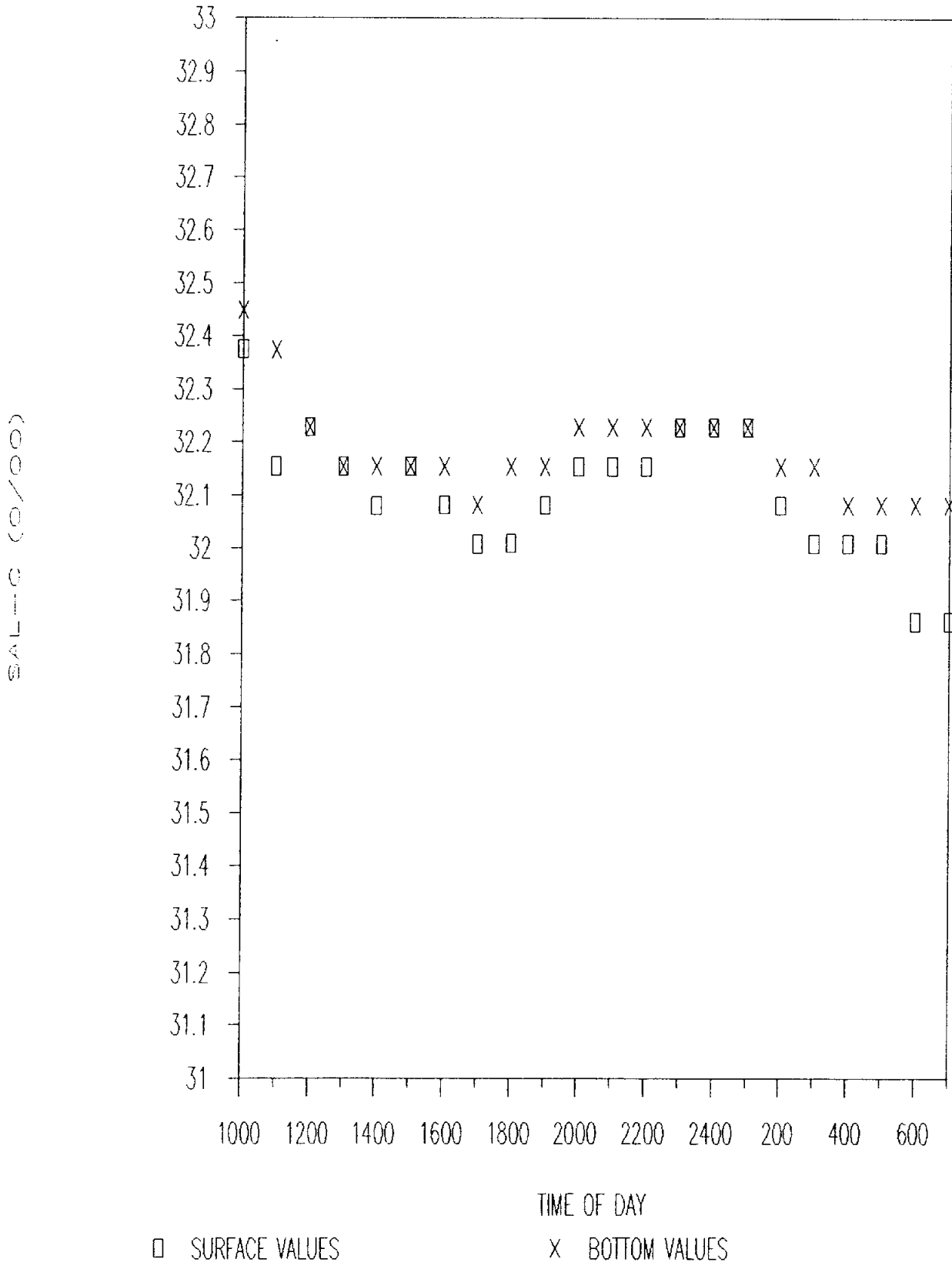
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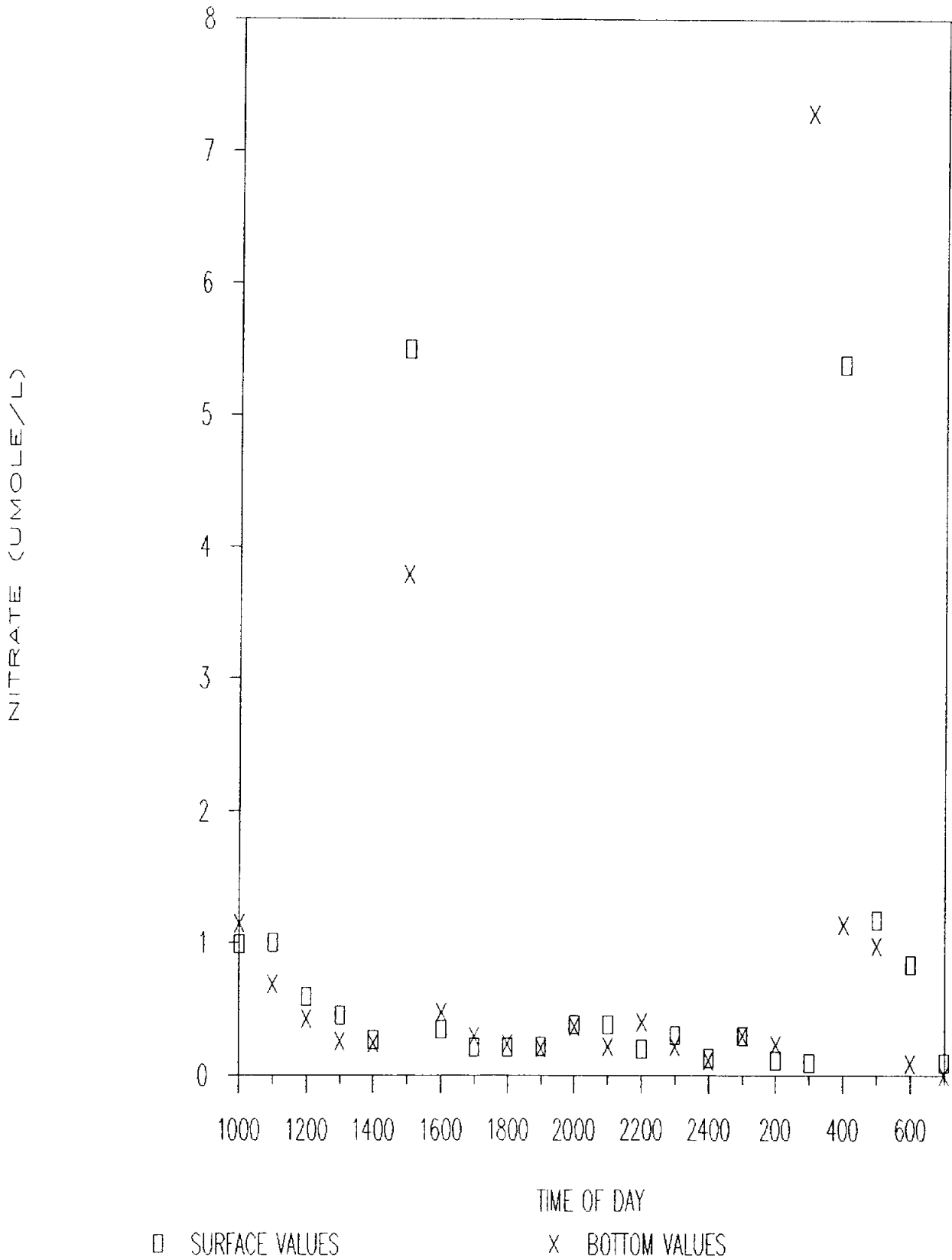
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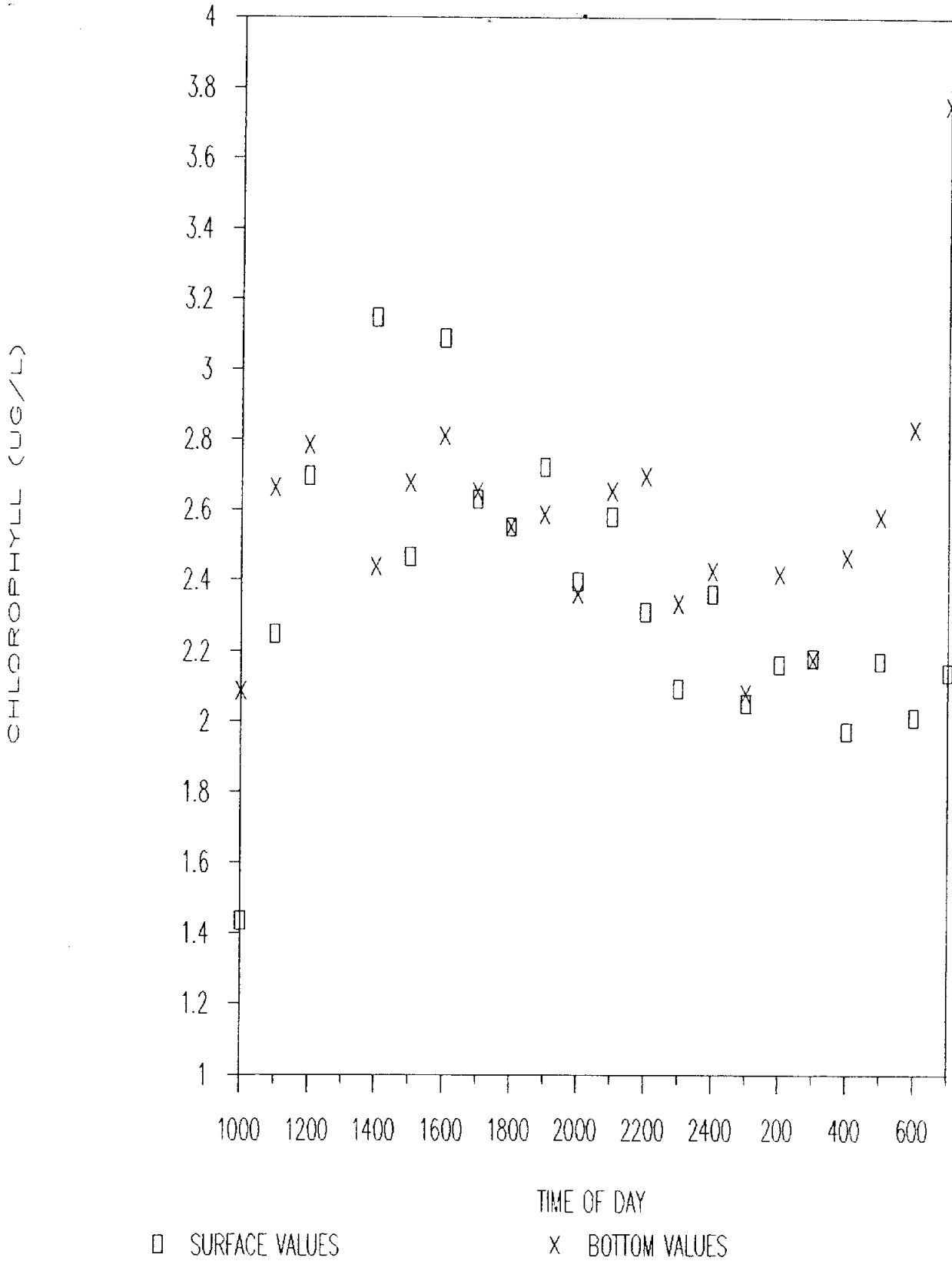
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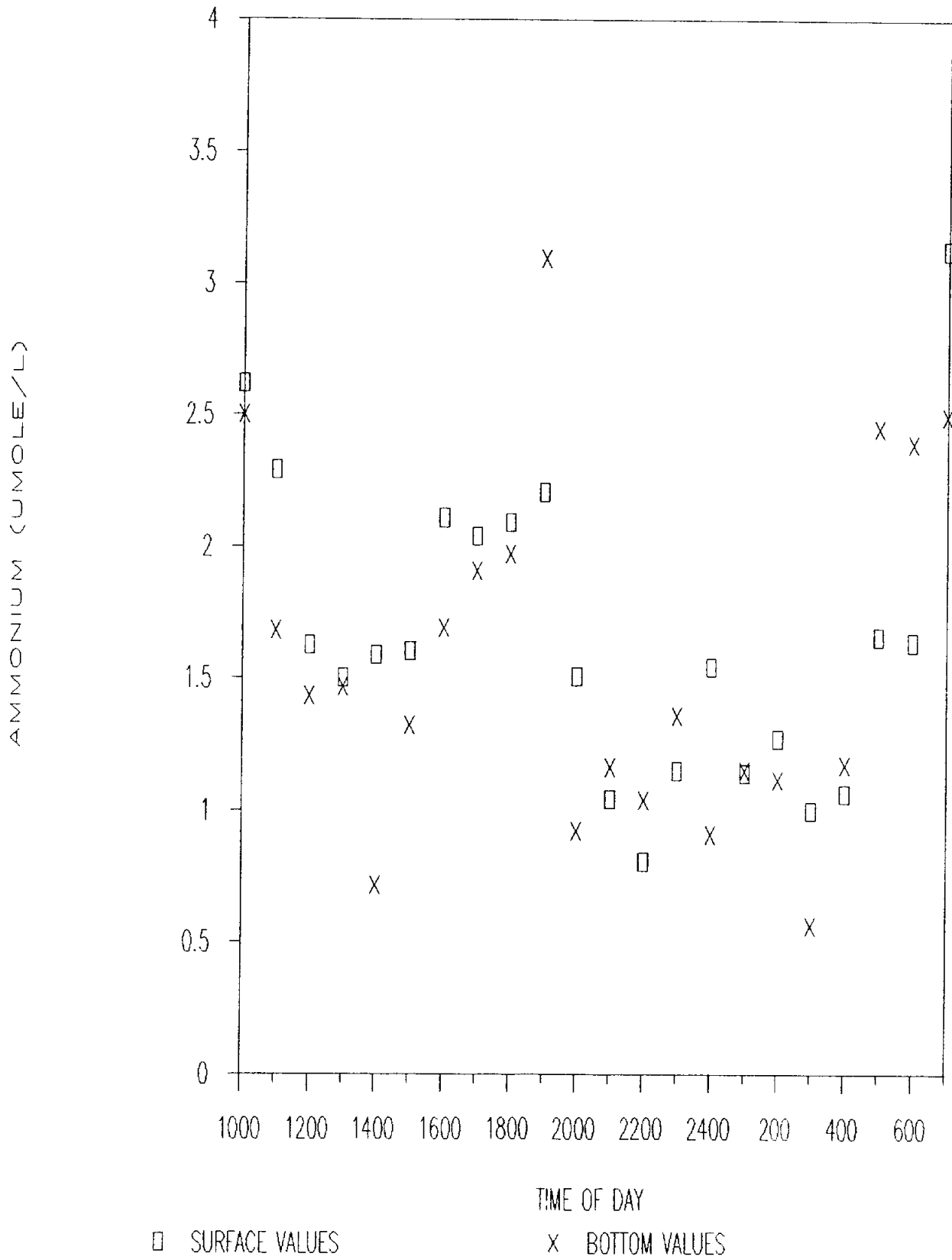
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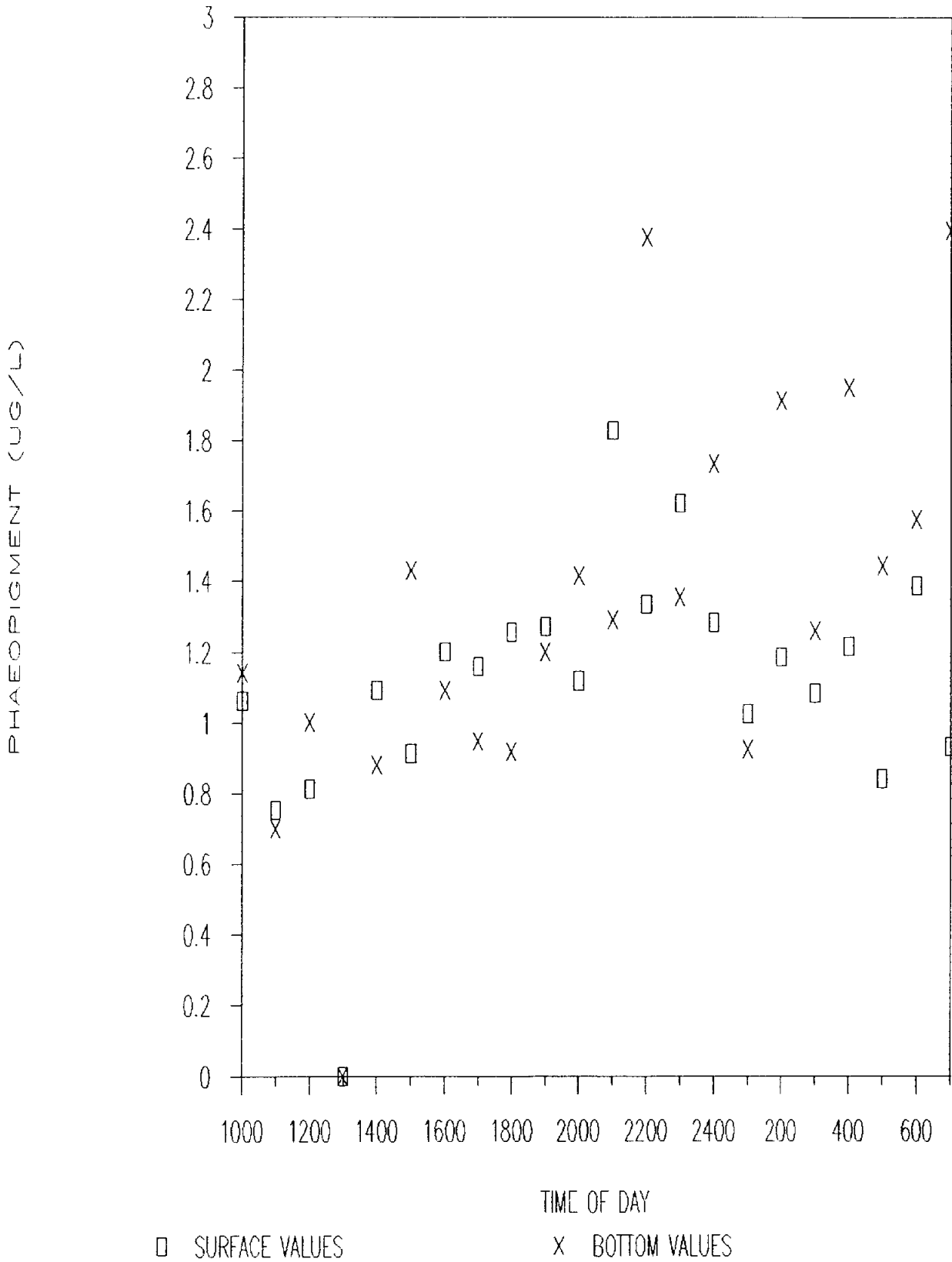
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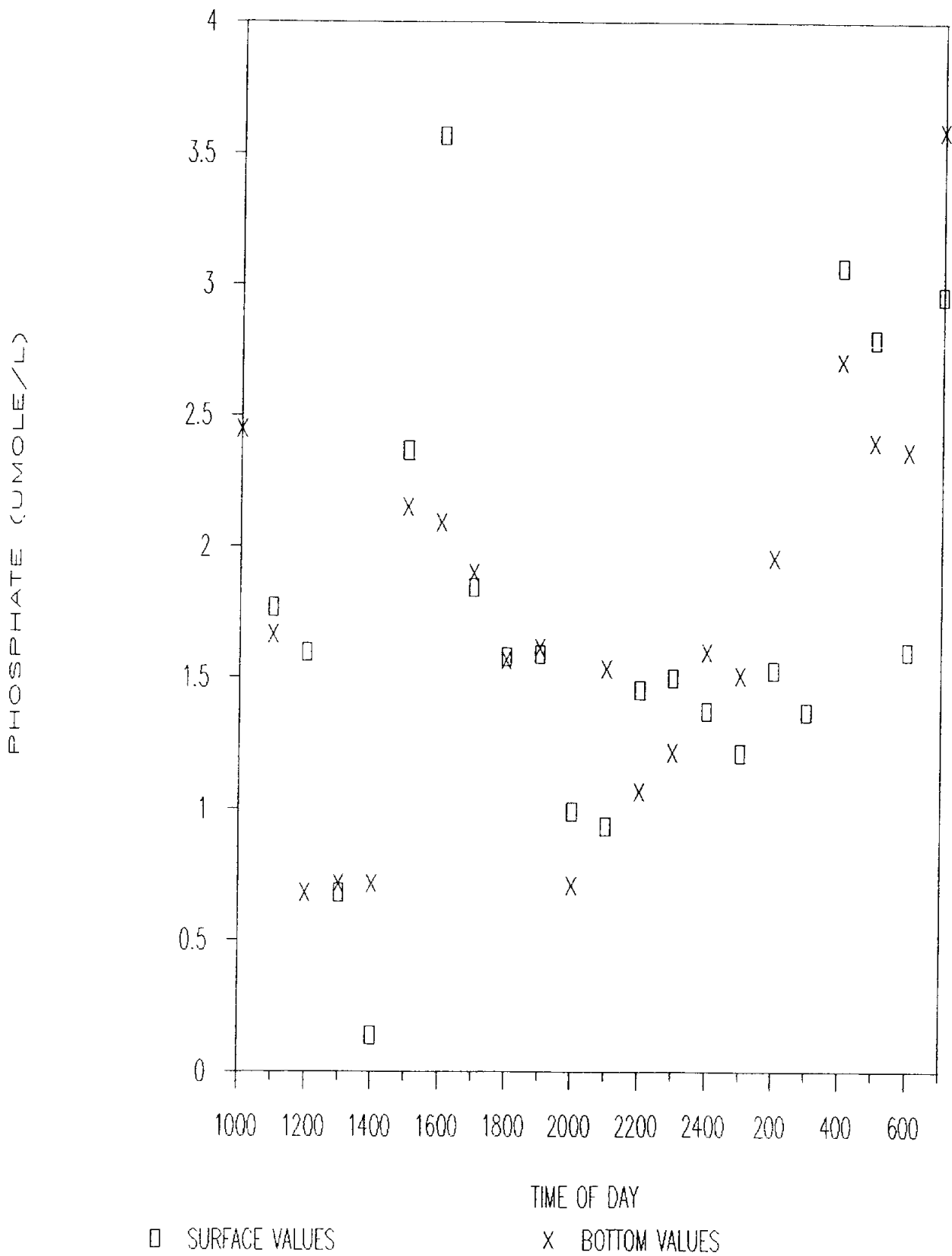
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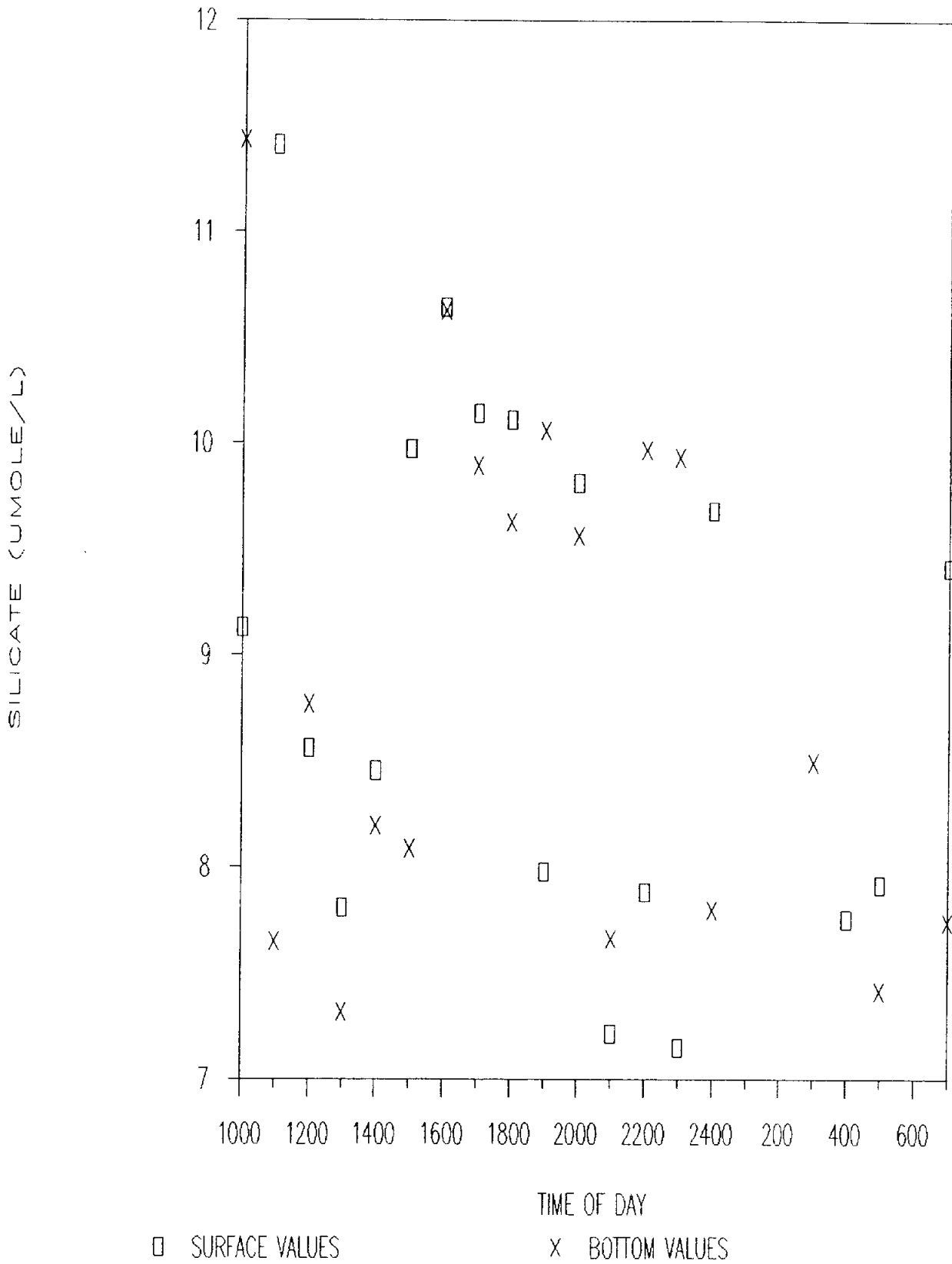
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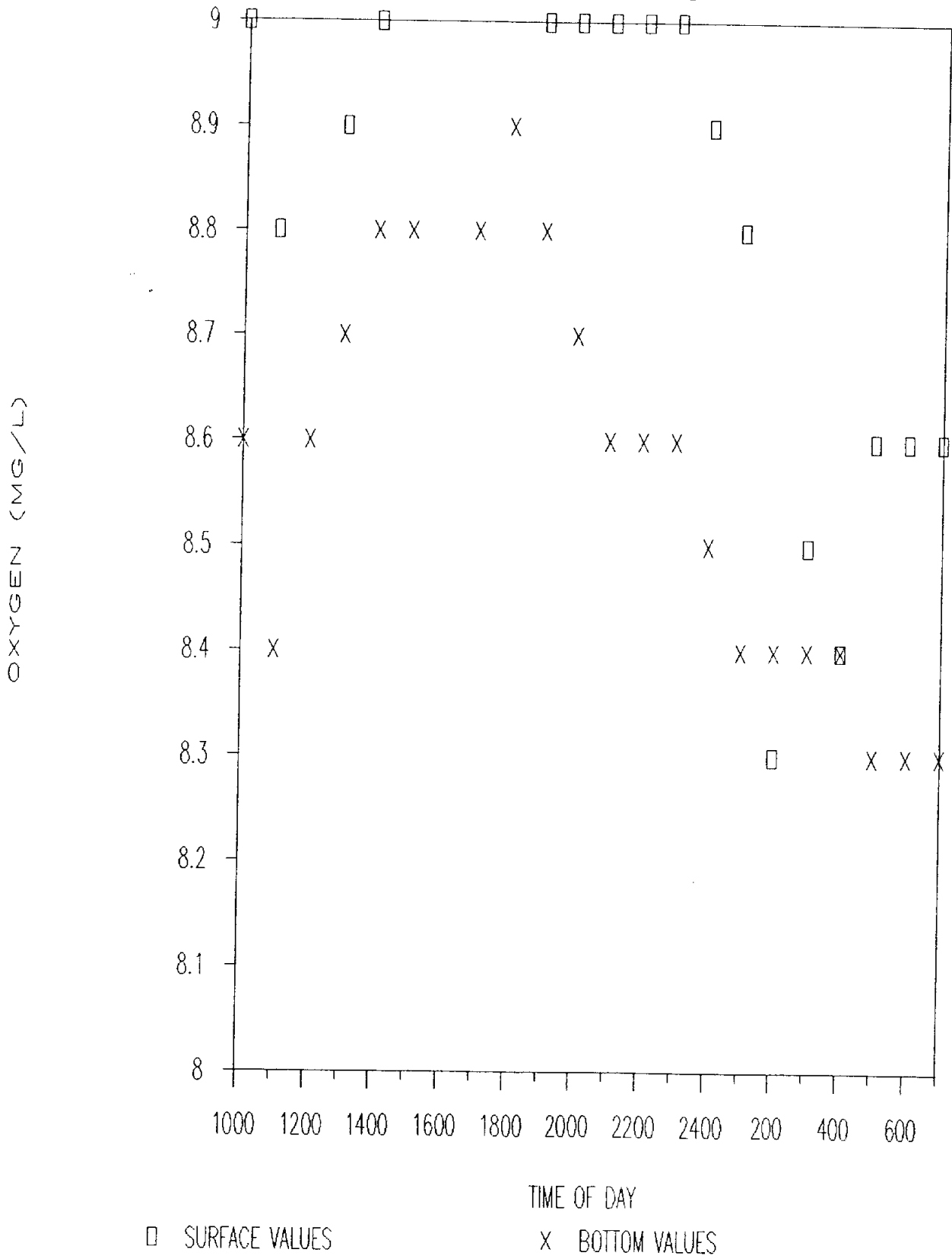
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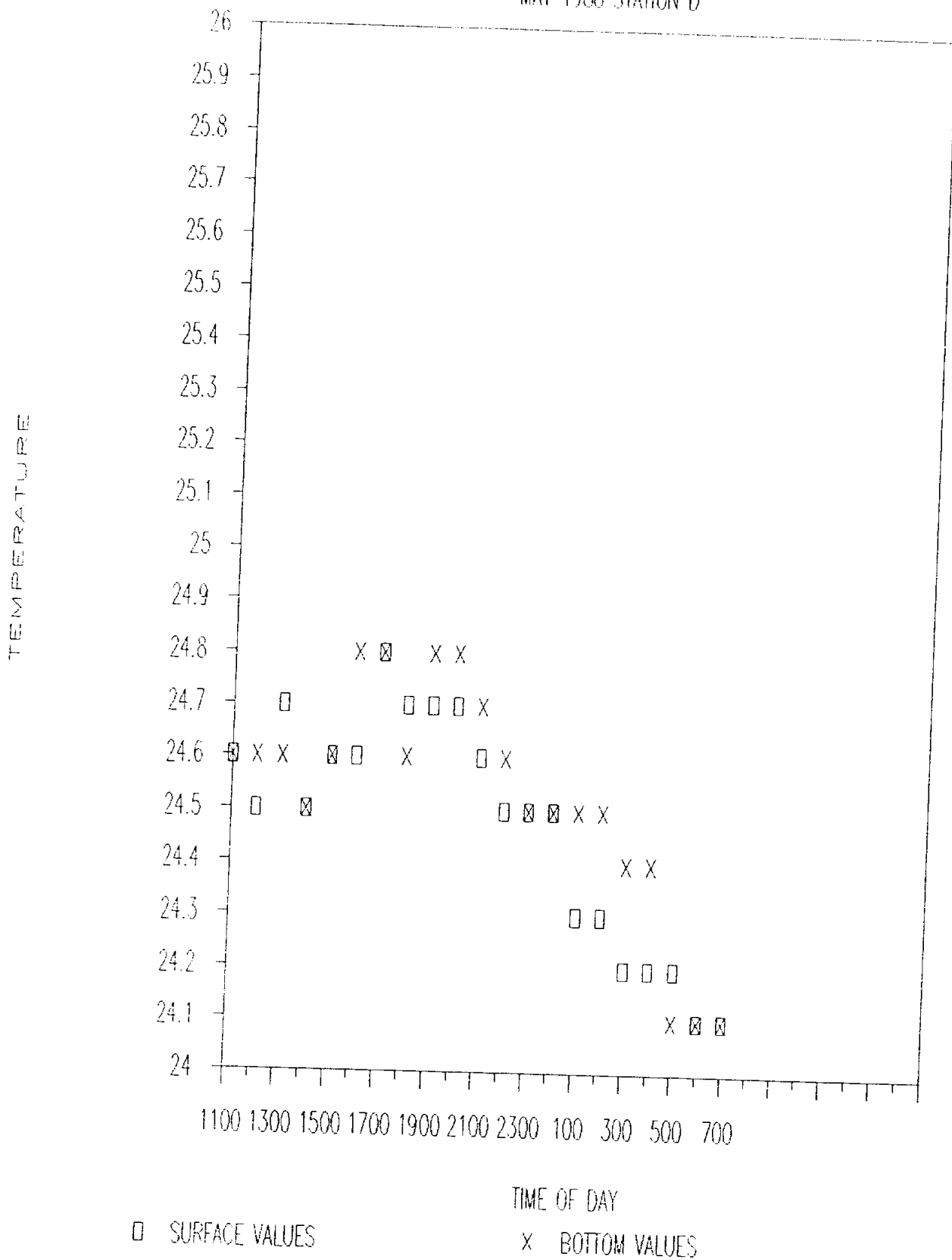
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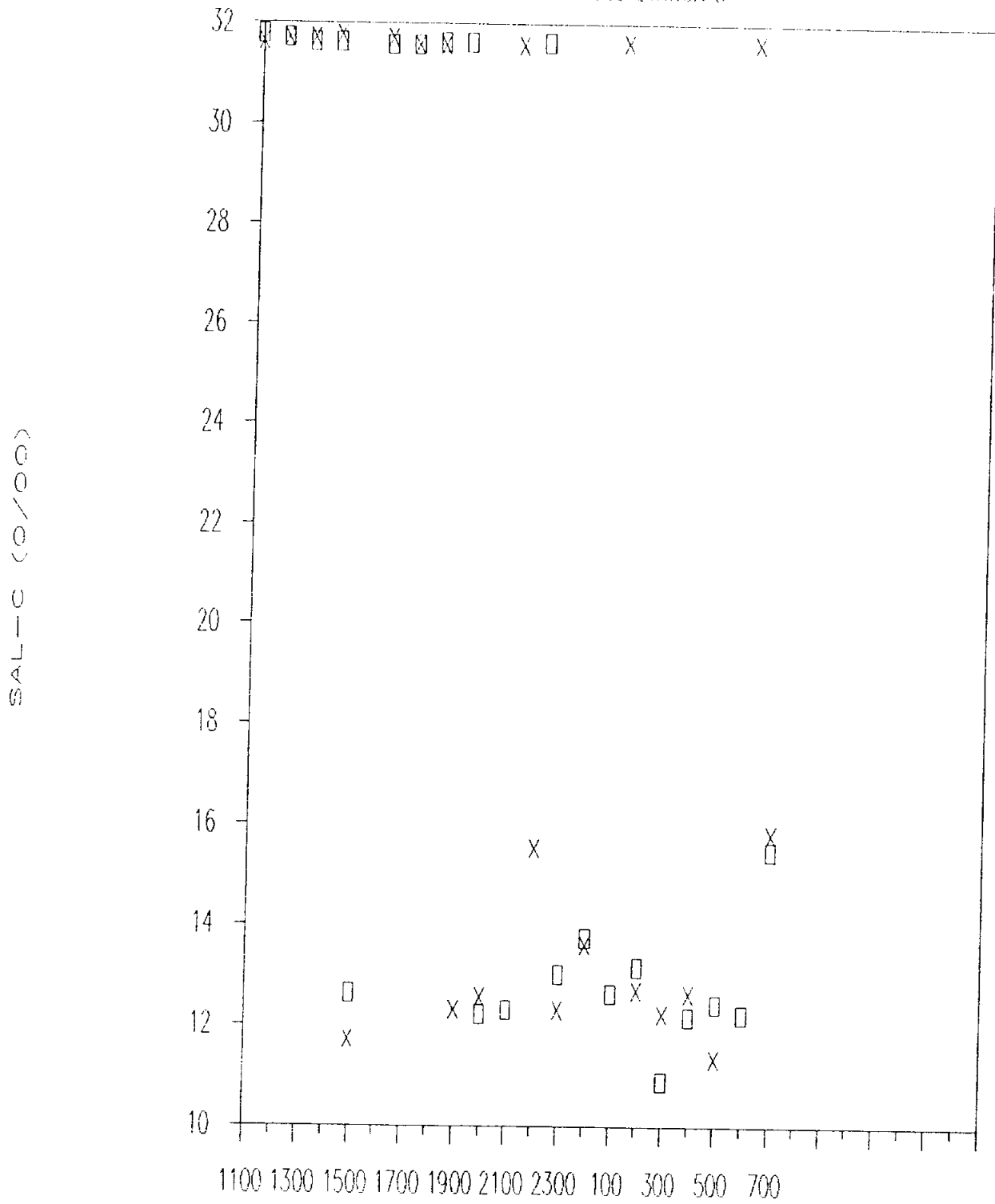
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MAY 1988 STATION D



CORPUS CHRISTI/NUECES BAYS

MAY 1988 STATION D

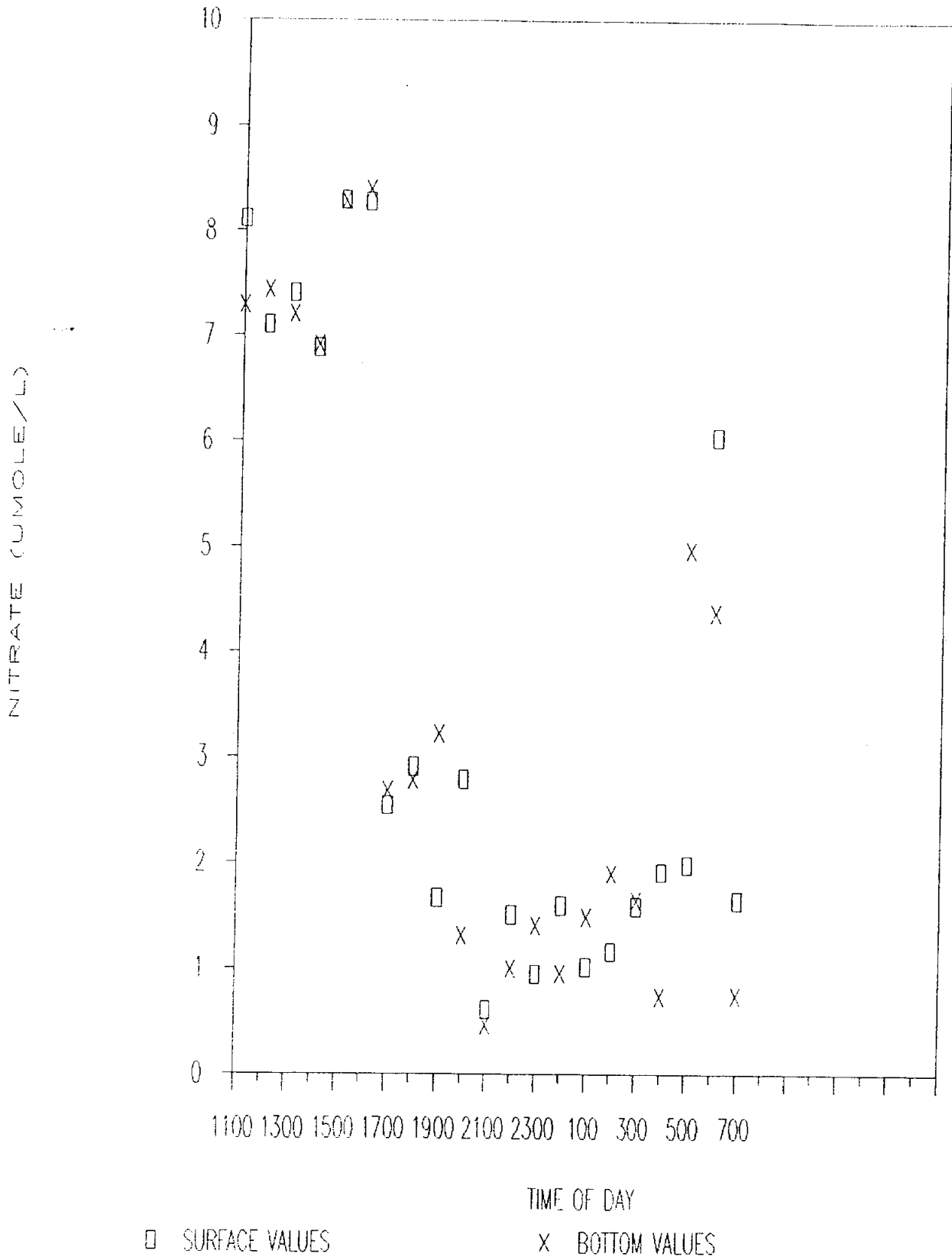


□ SURFACE VALUES

X BOTTOM VALUES

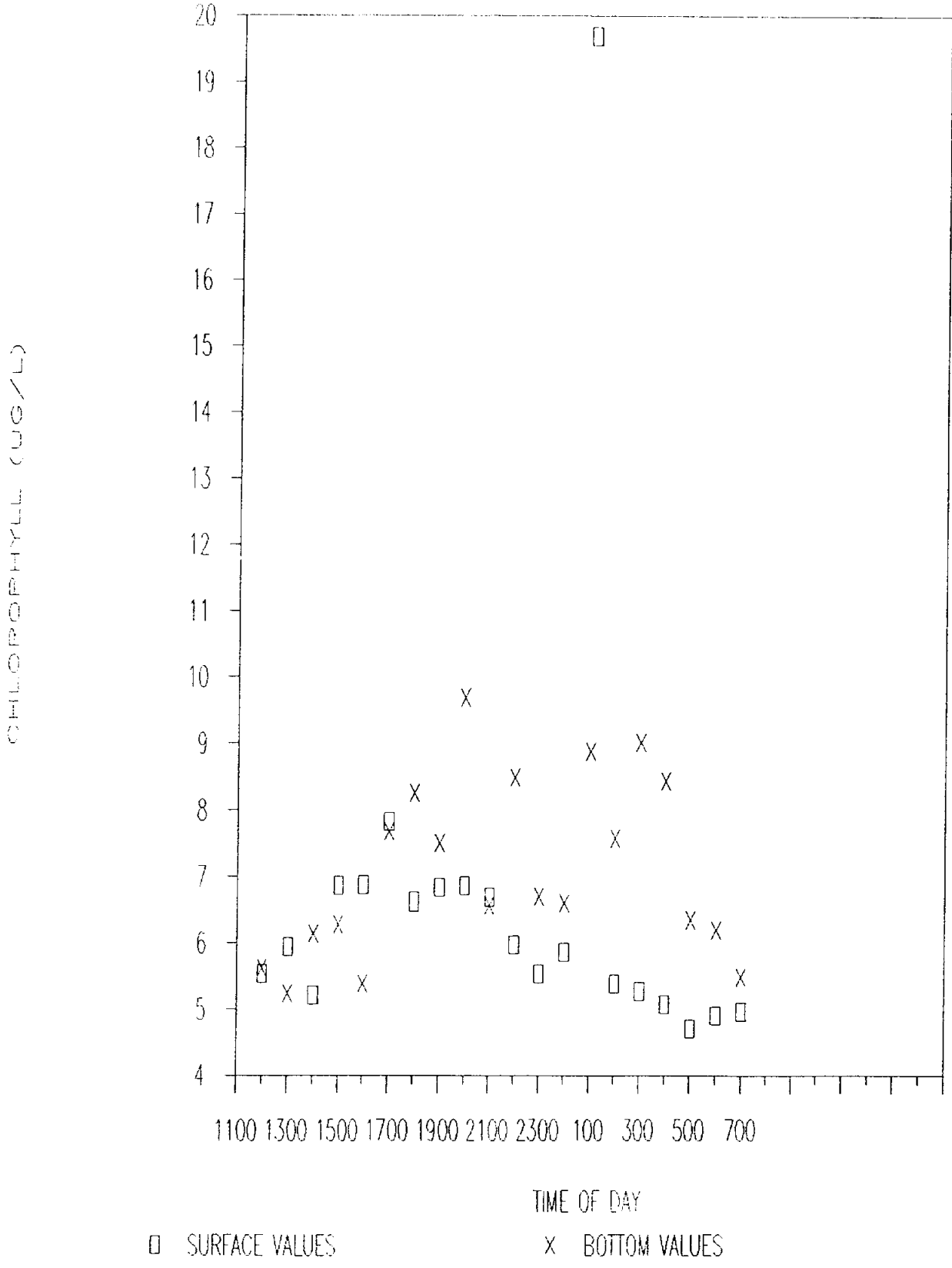
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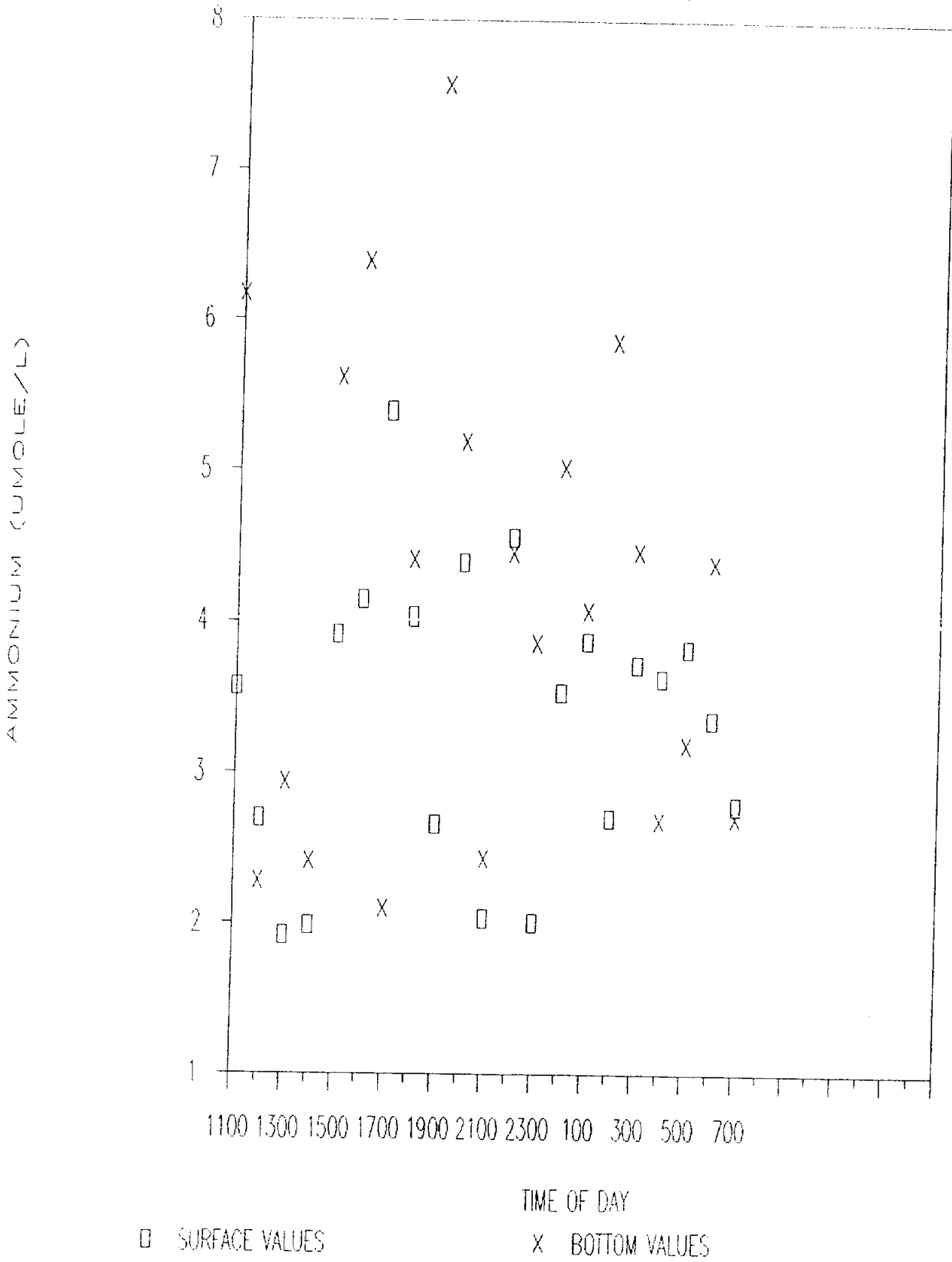
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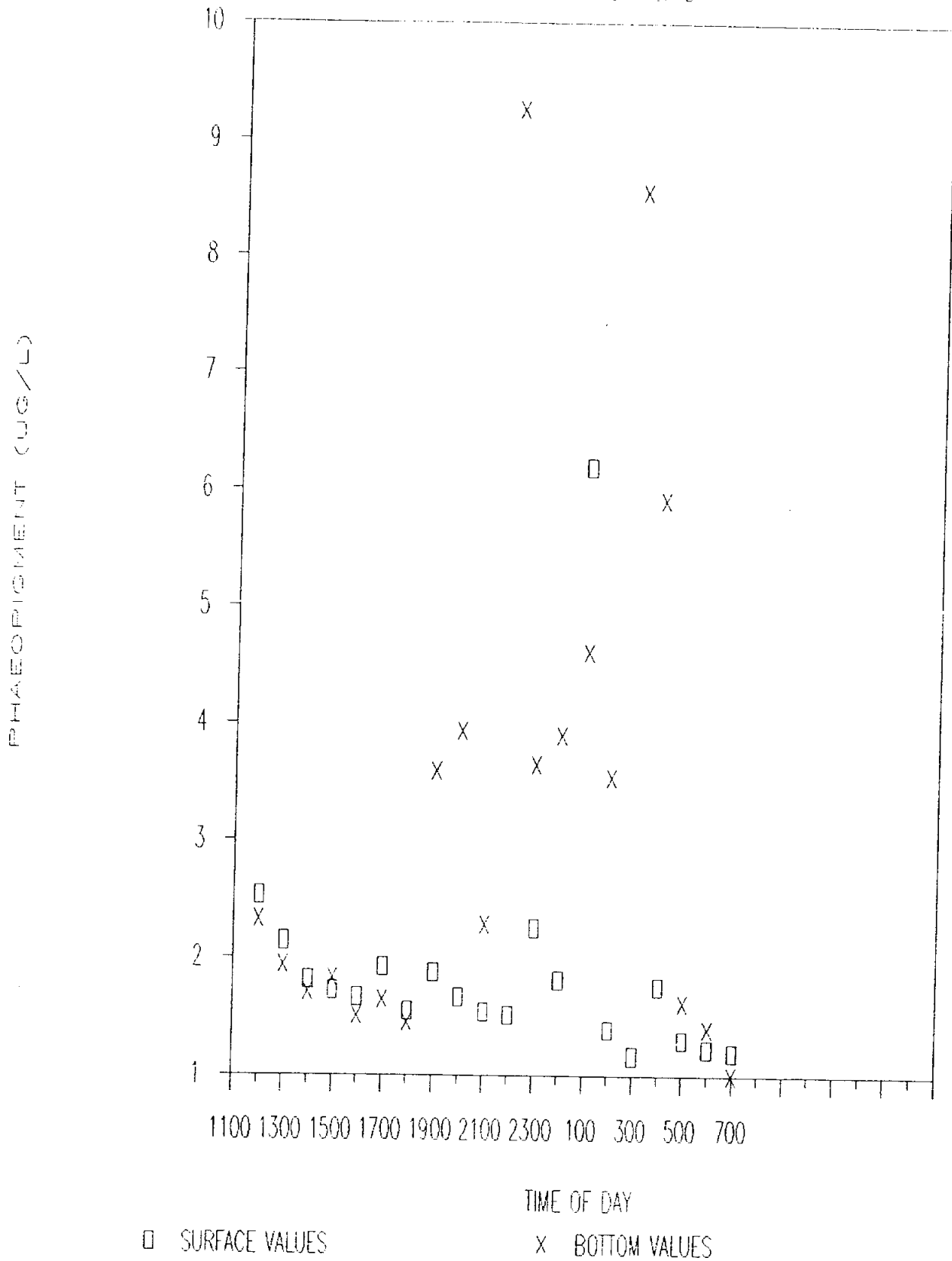
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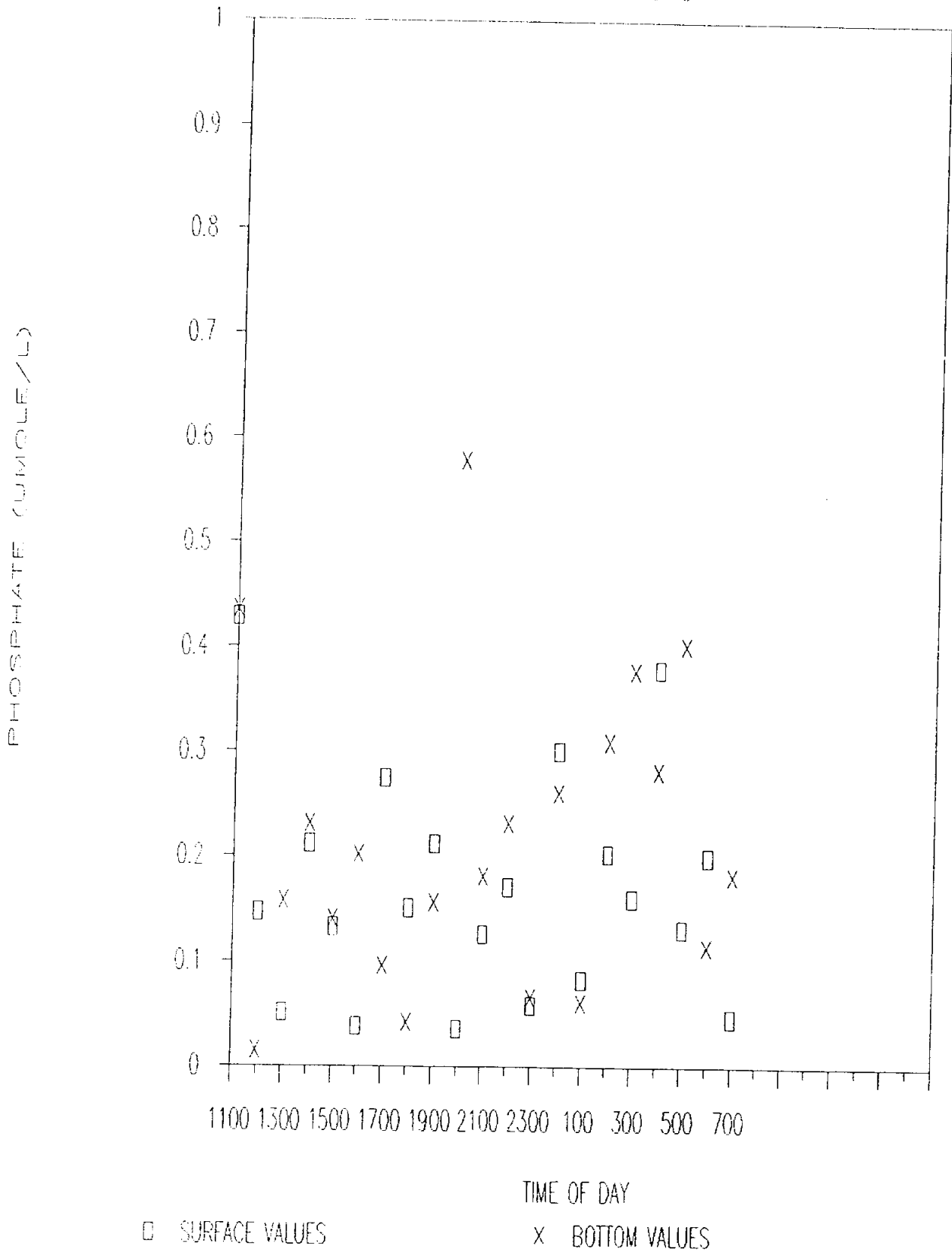
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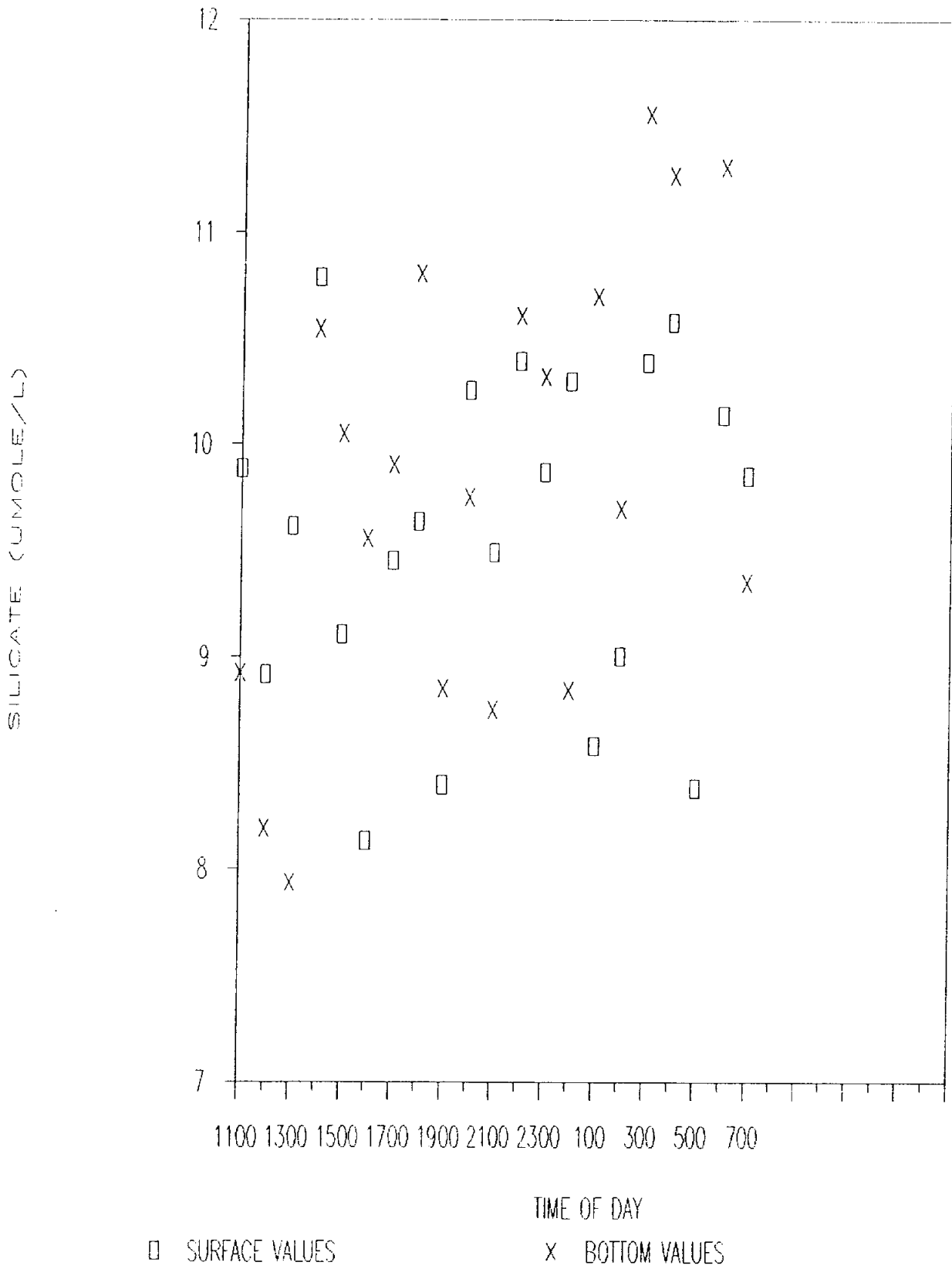
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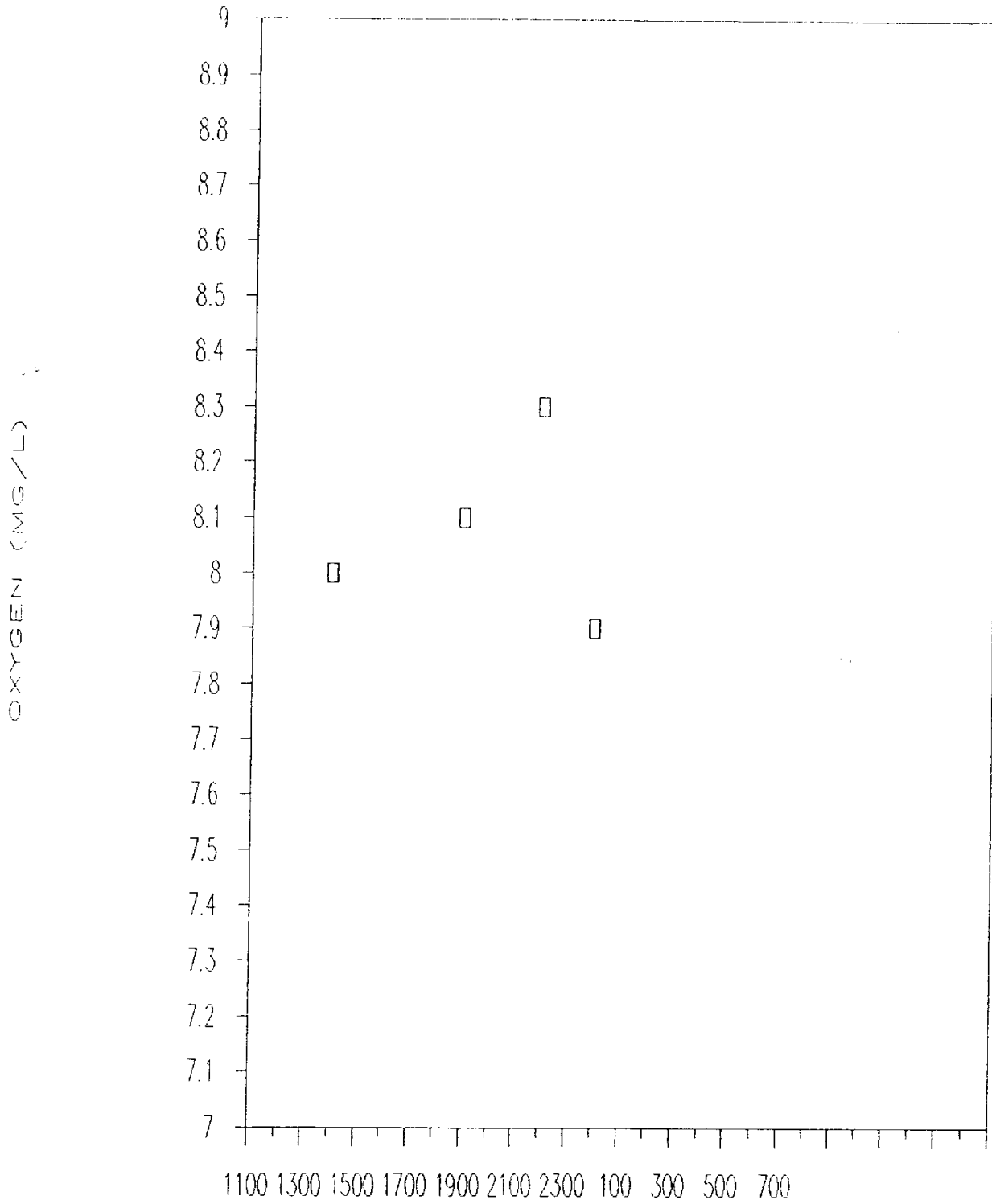
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CORPUS CHRISTI/NUECES BAYS

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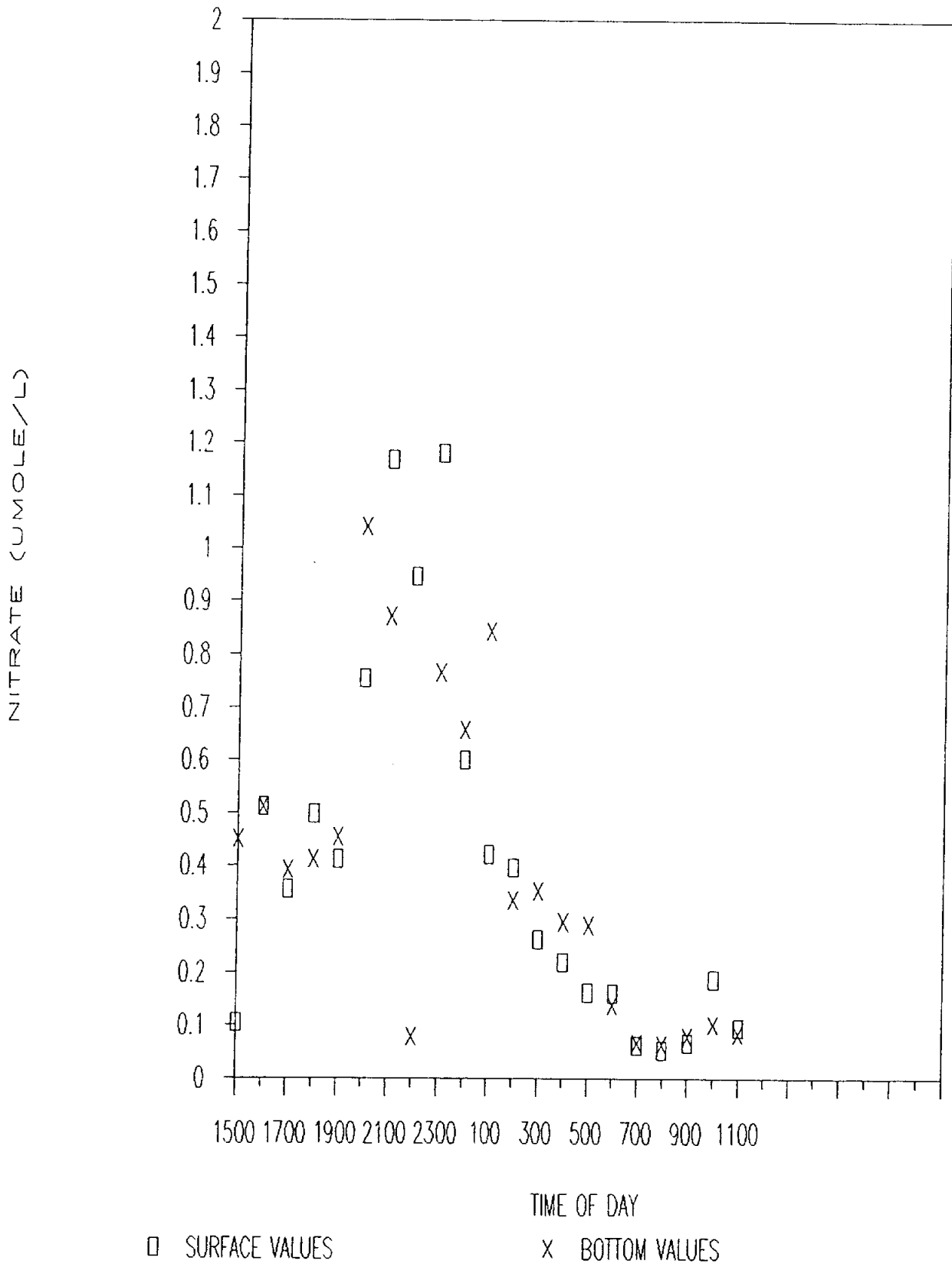
□ SURFACE VALUES

TIME OF DAY

x BOTTOM VALUES

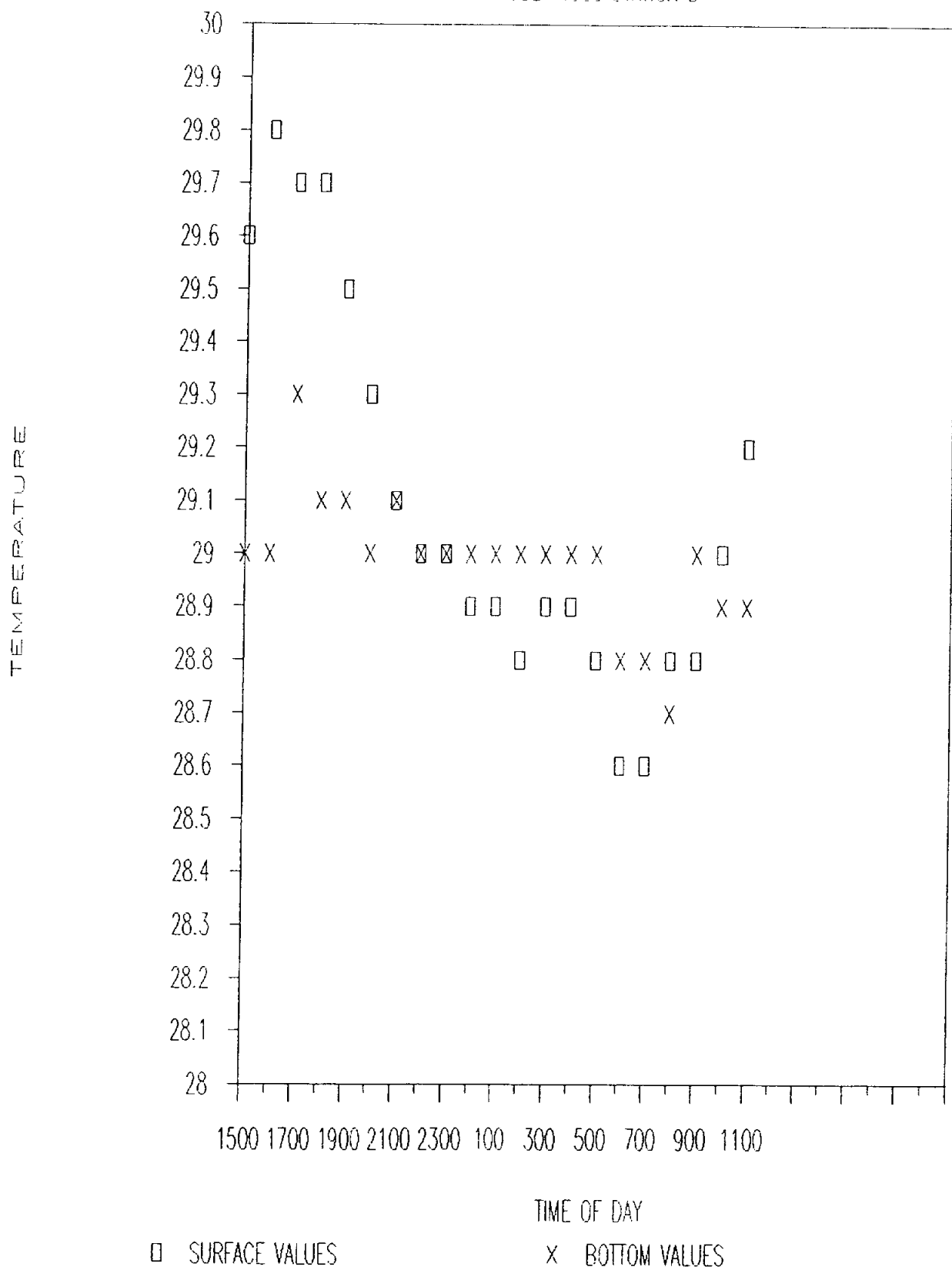
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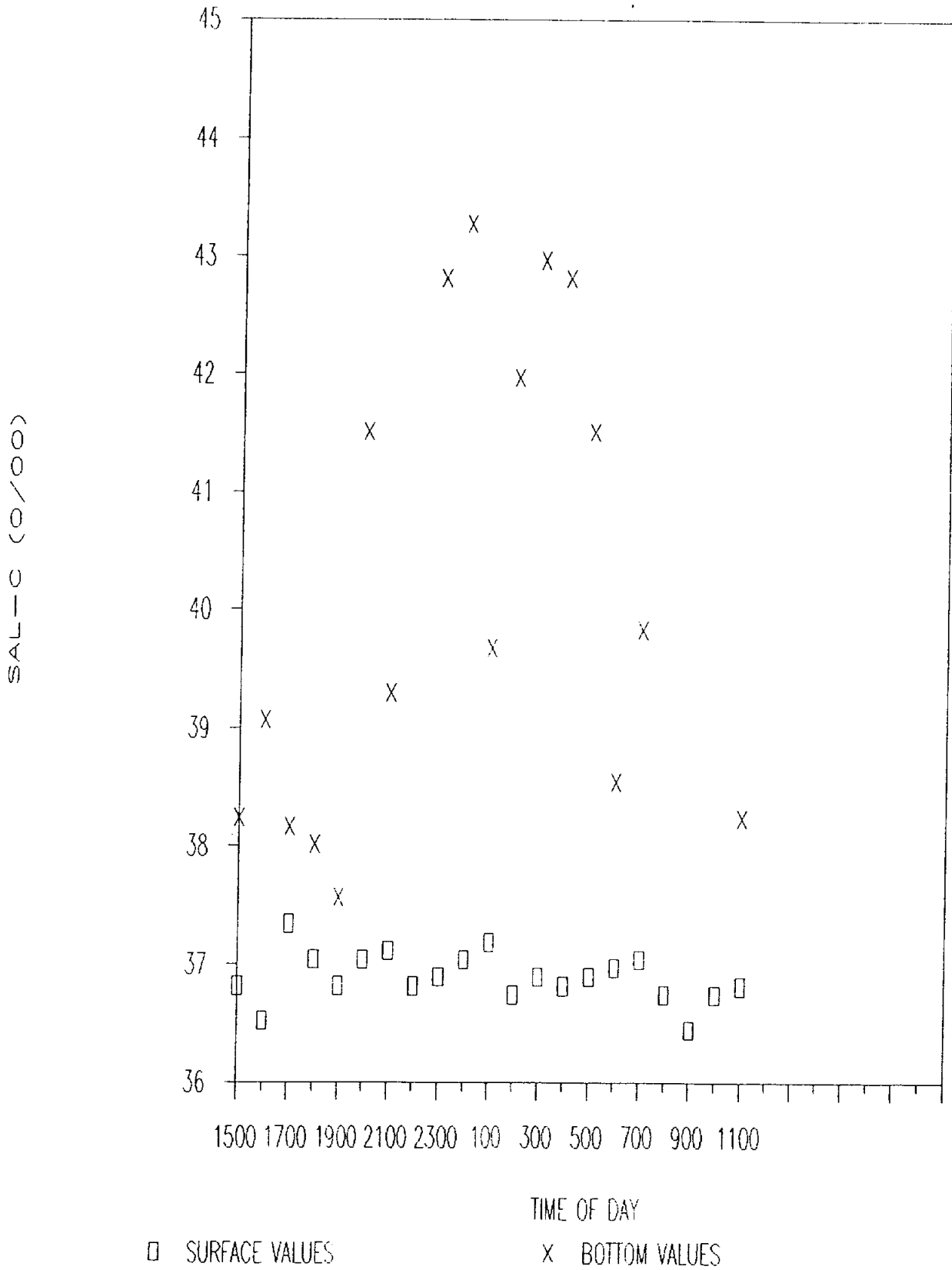
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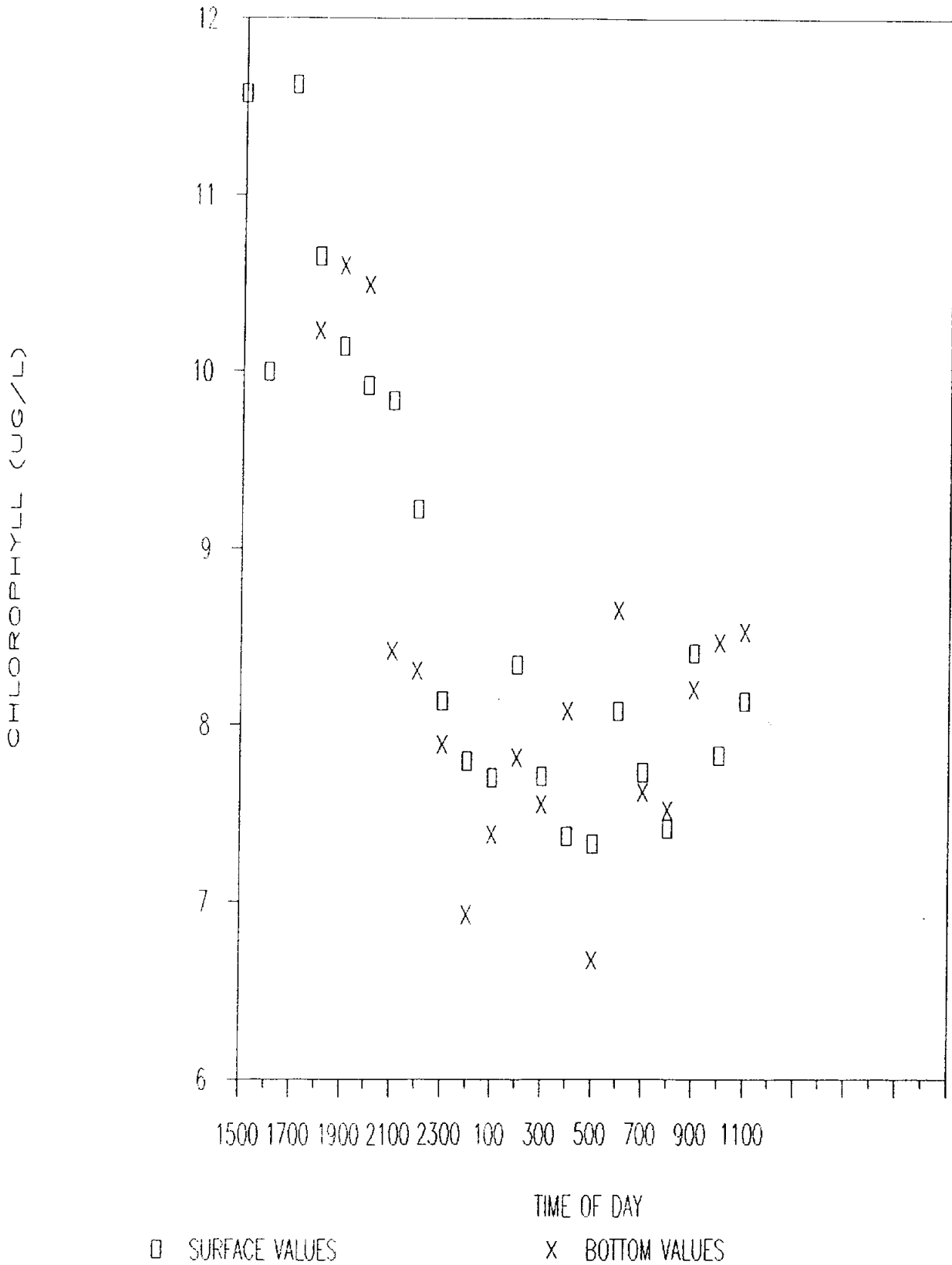
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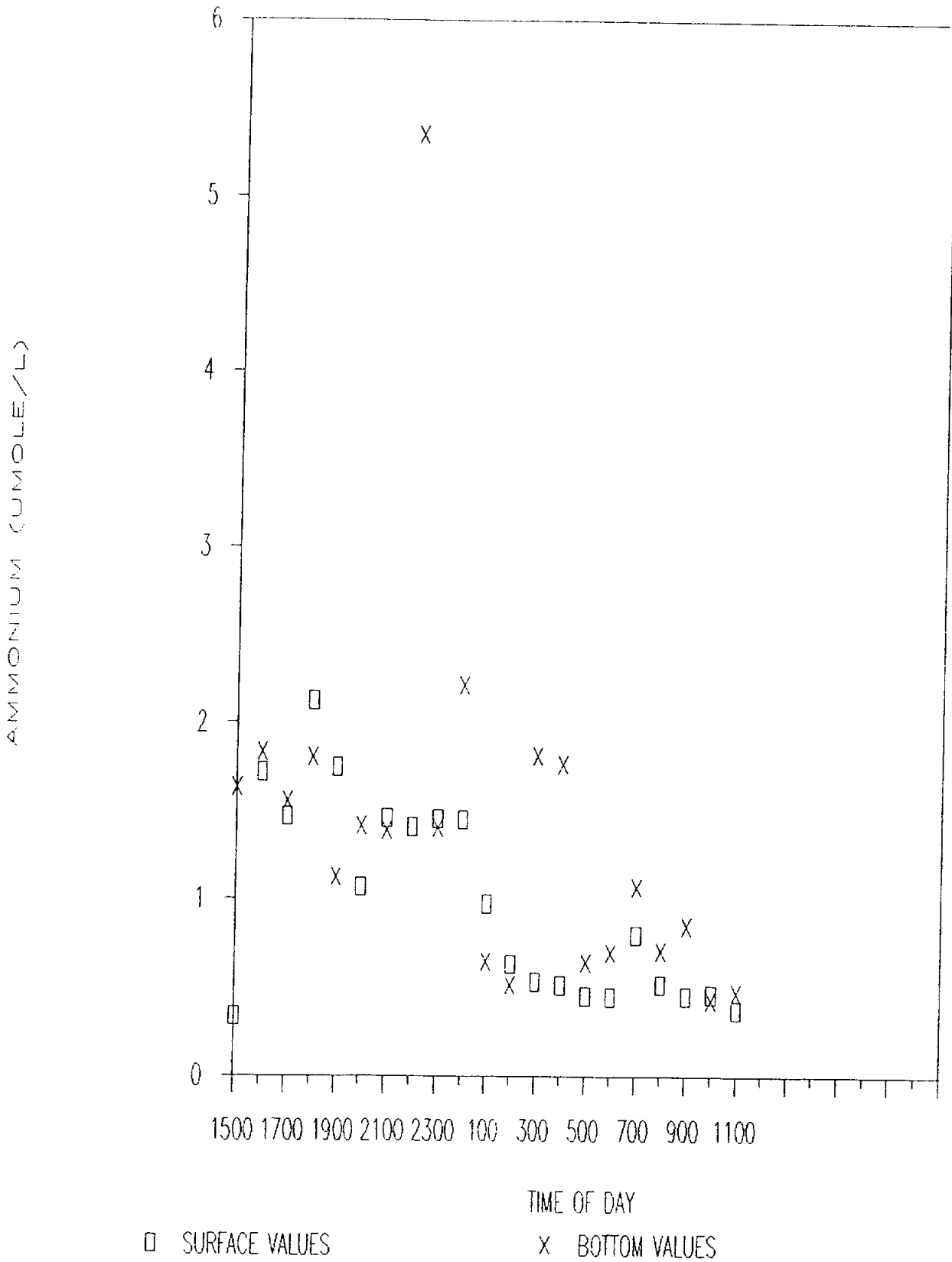
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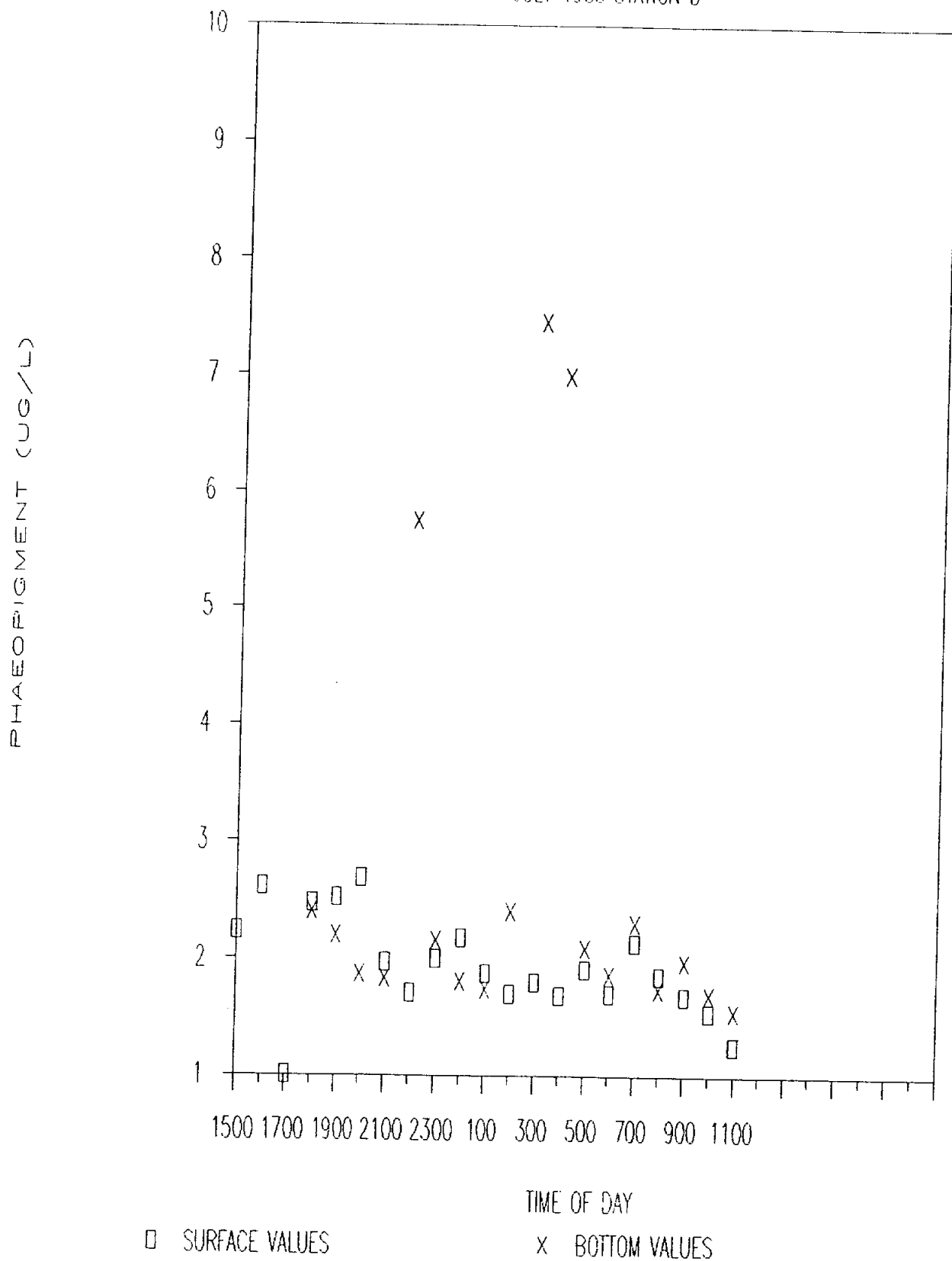
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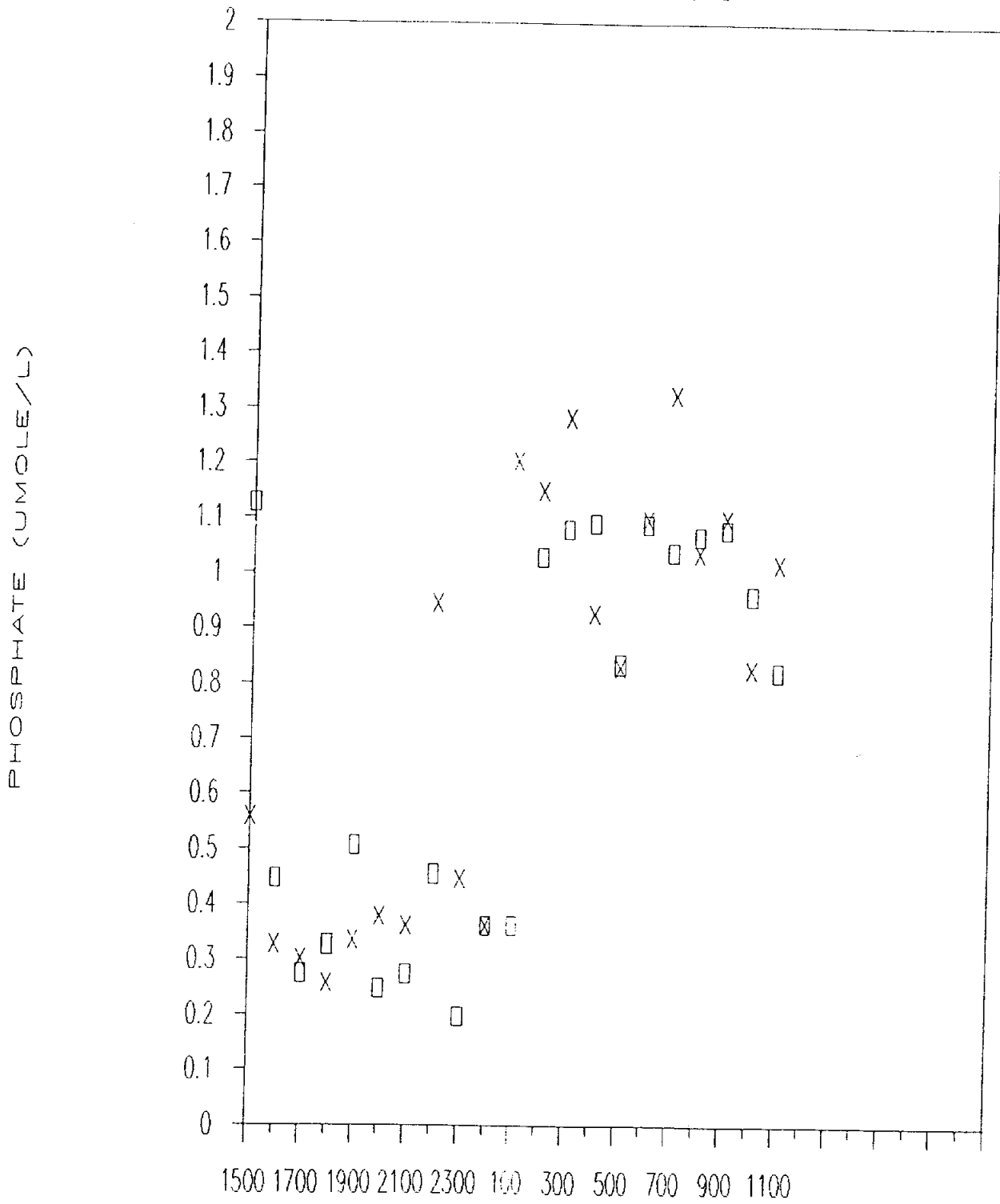
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JULY 1988 STATION D



CORPUS CHRISTI/NUECES BAYS

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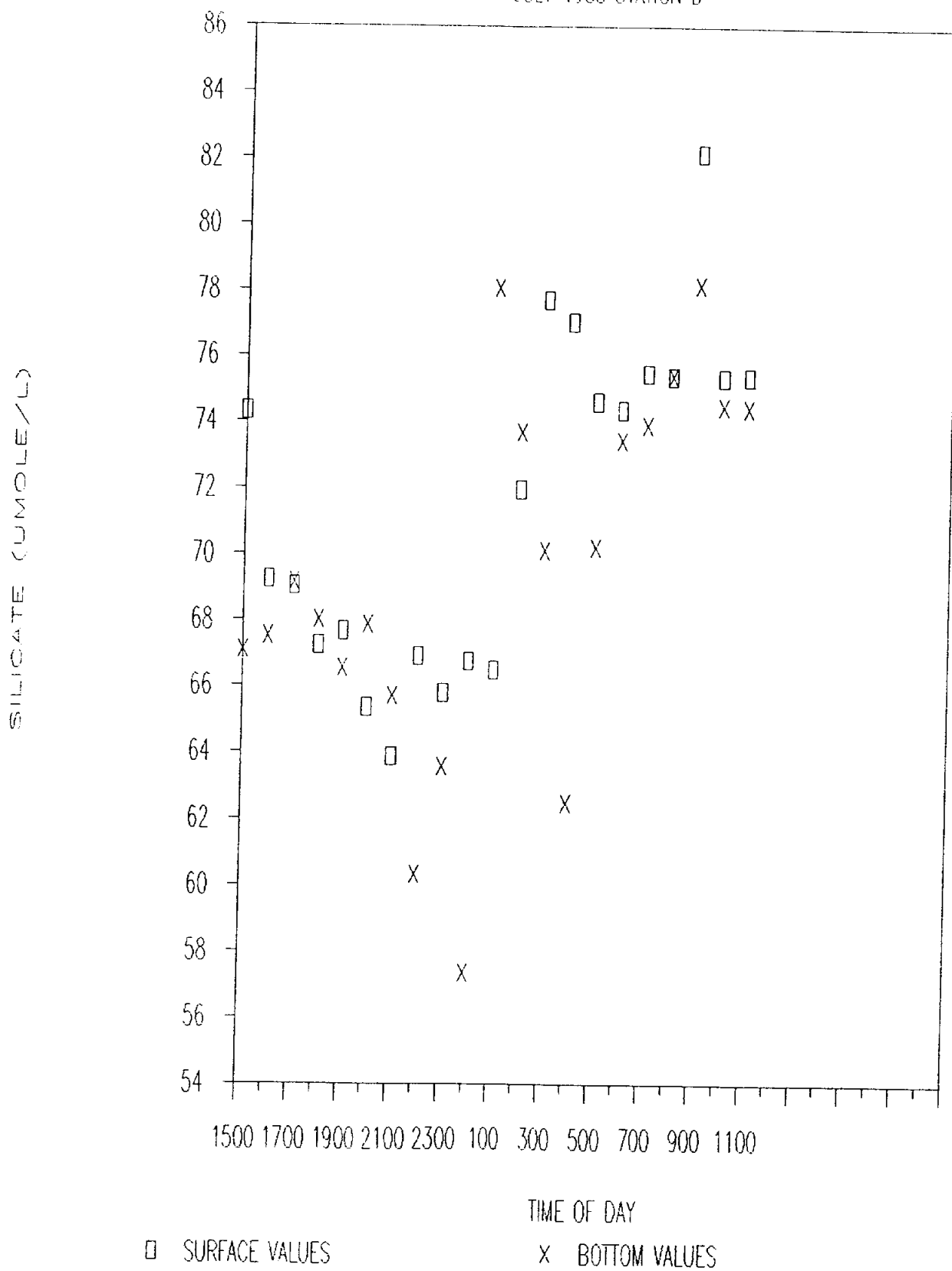


□ SURFACE VALUES

X BOTTOM VALUES

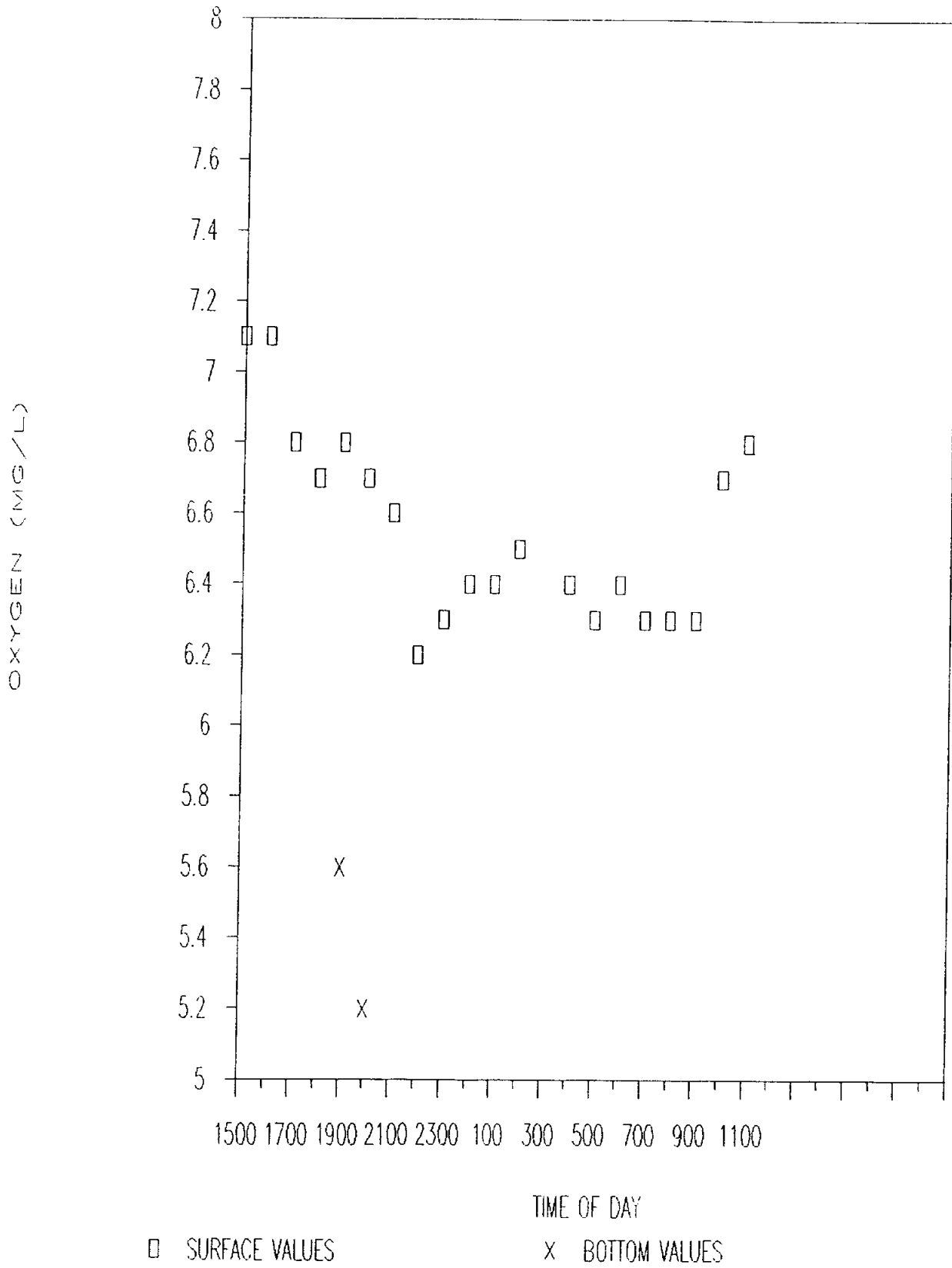
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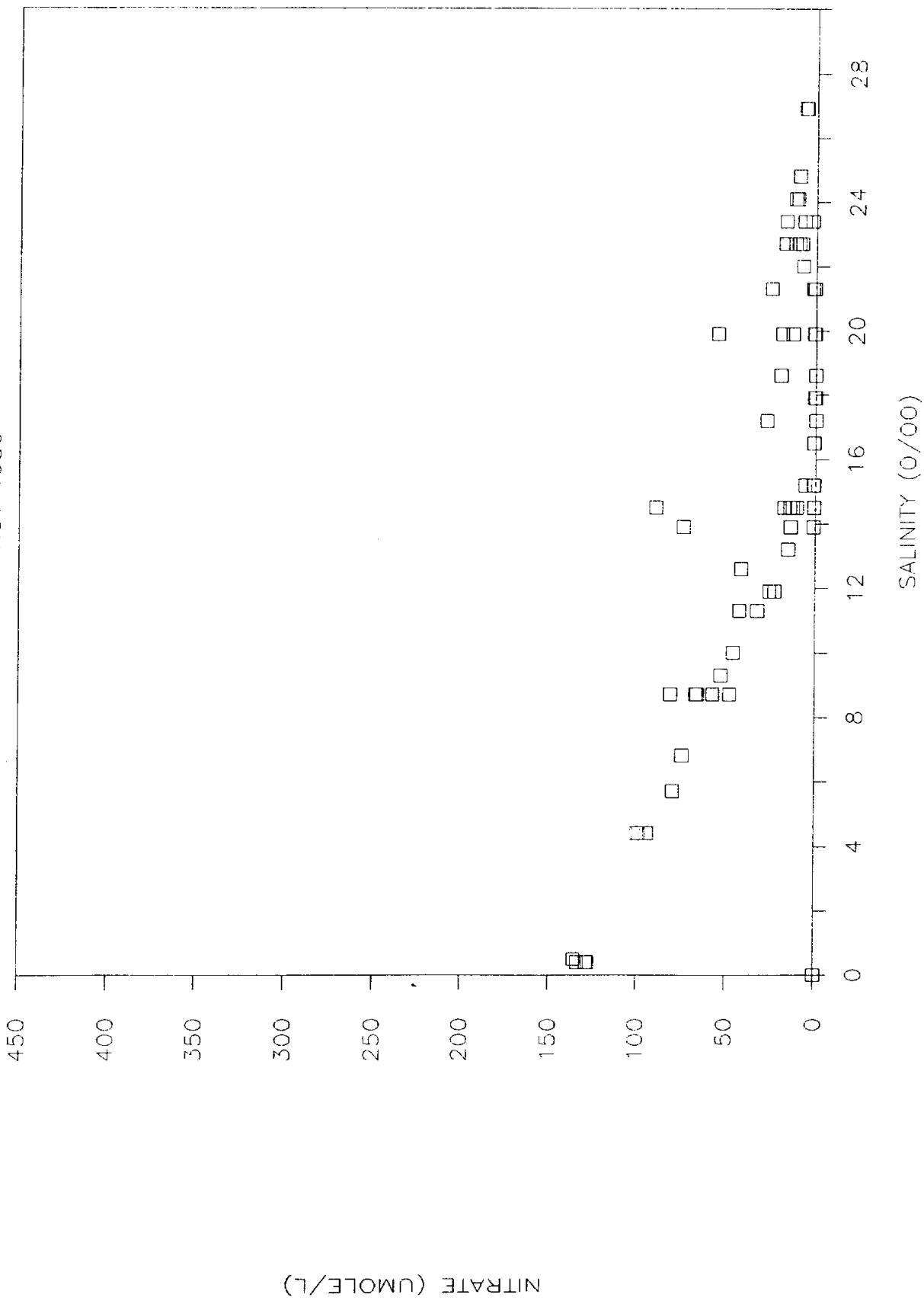
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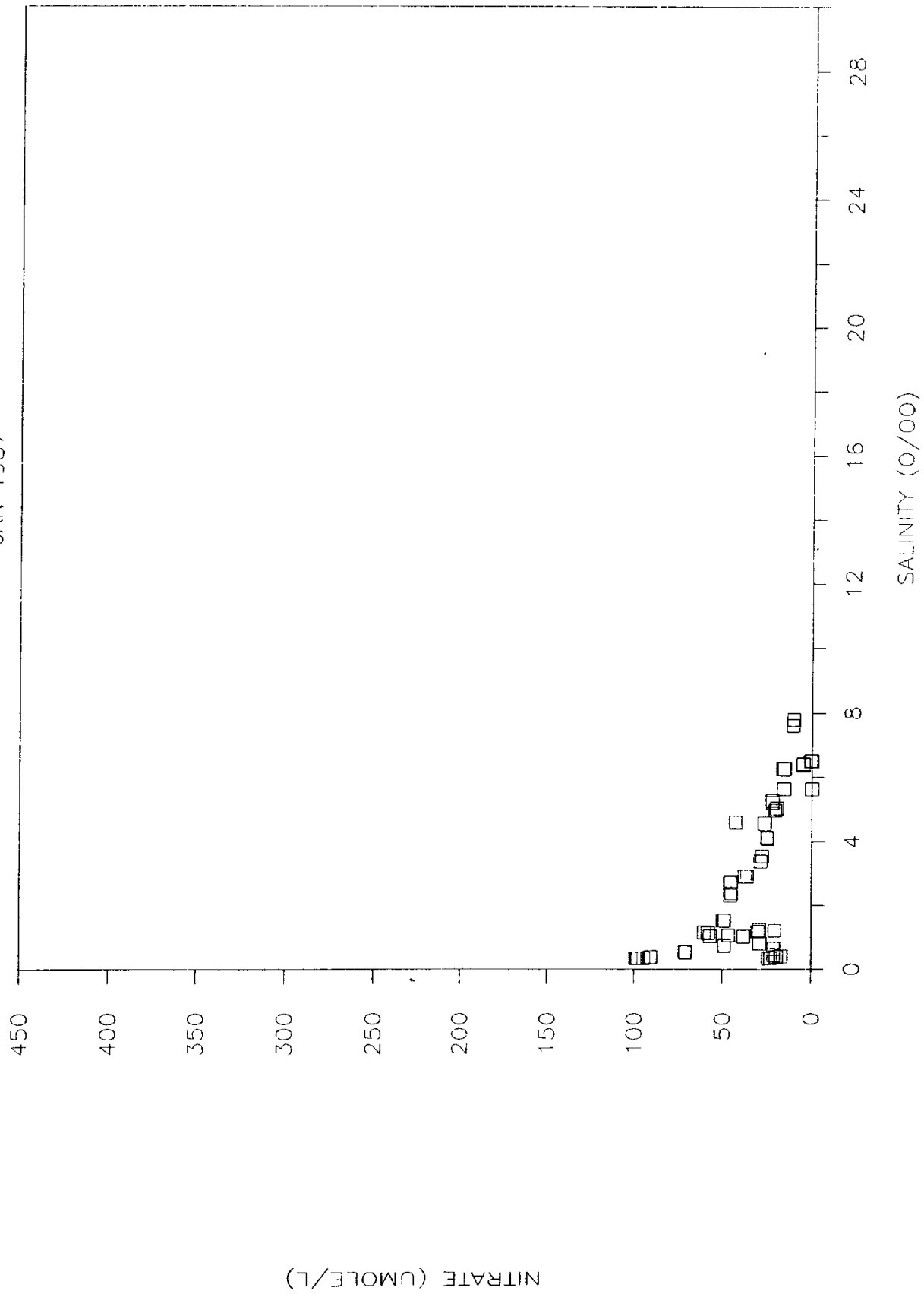
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NOV 1986



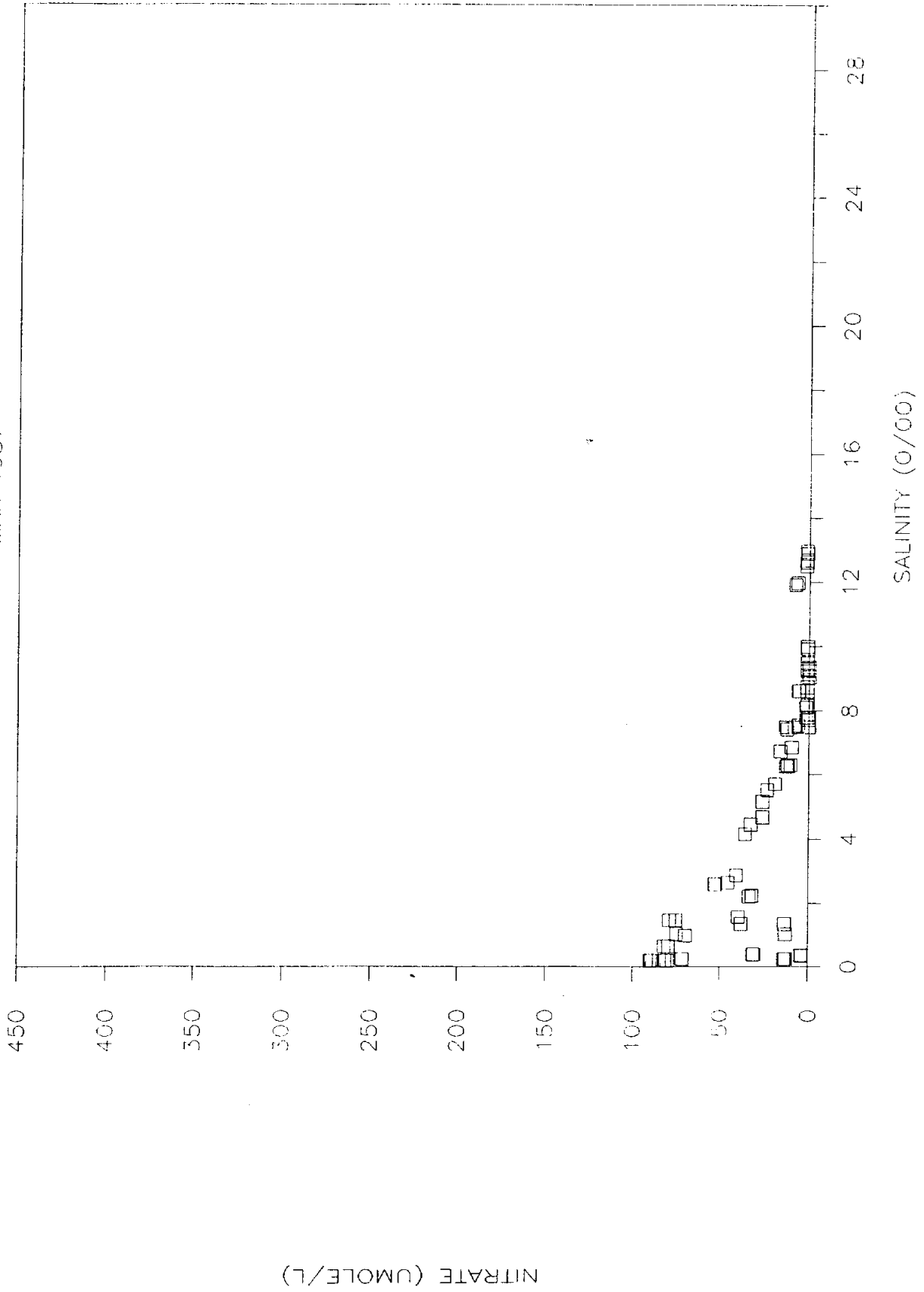
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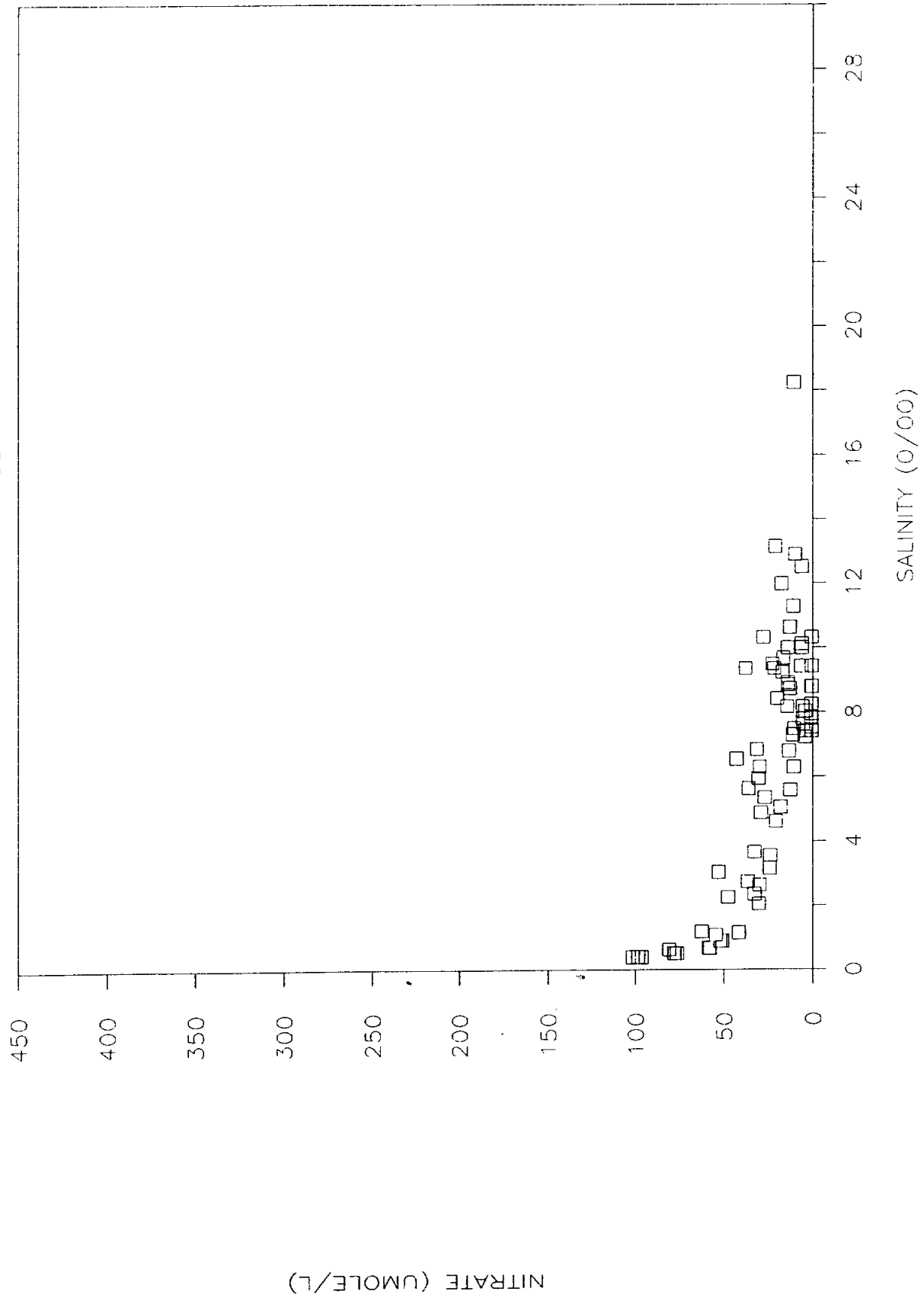
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MAR 1987



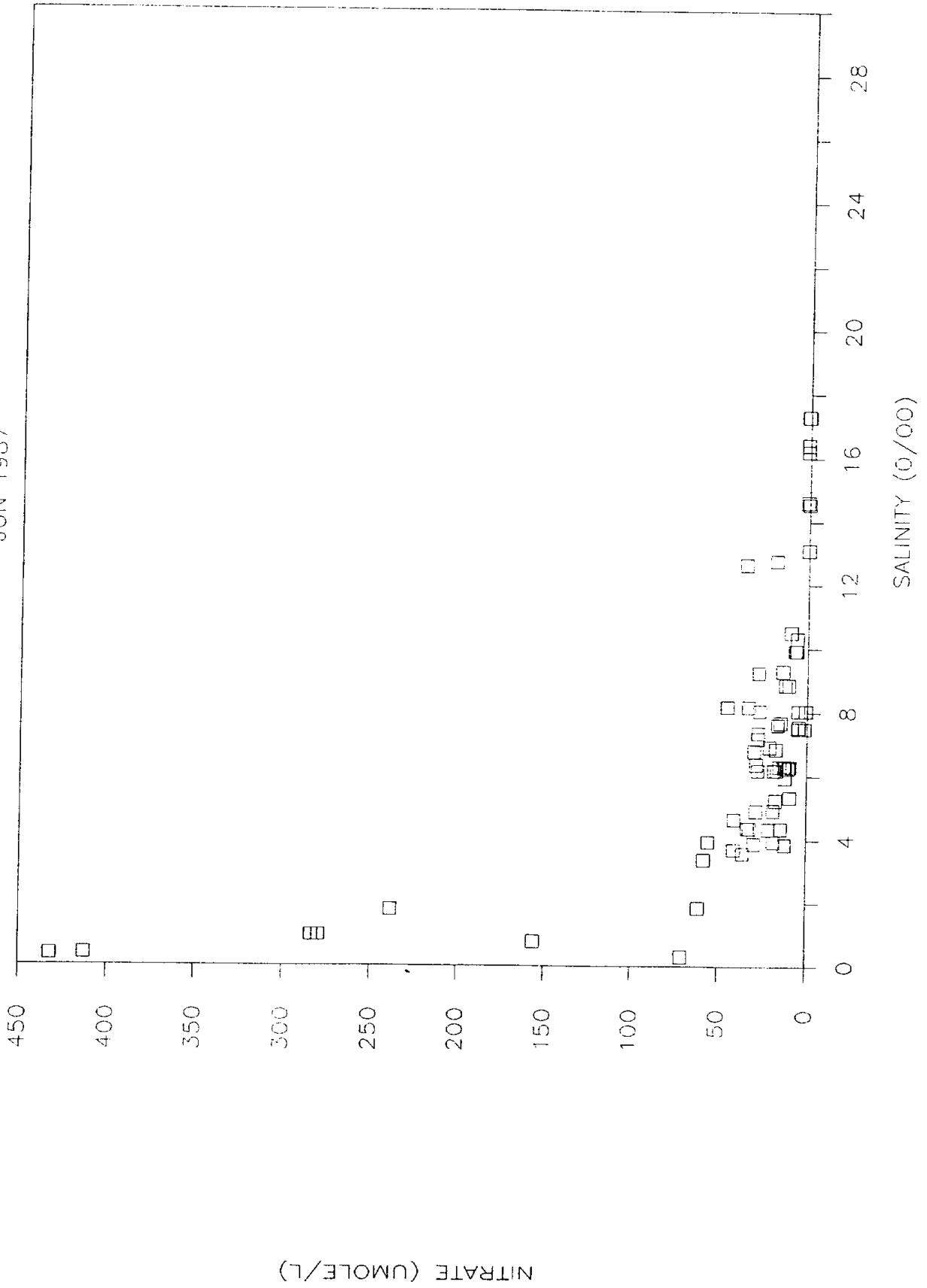
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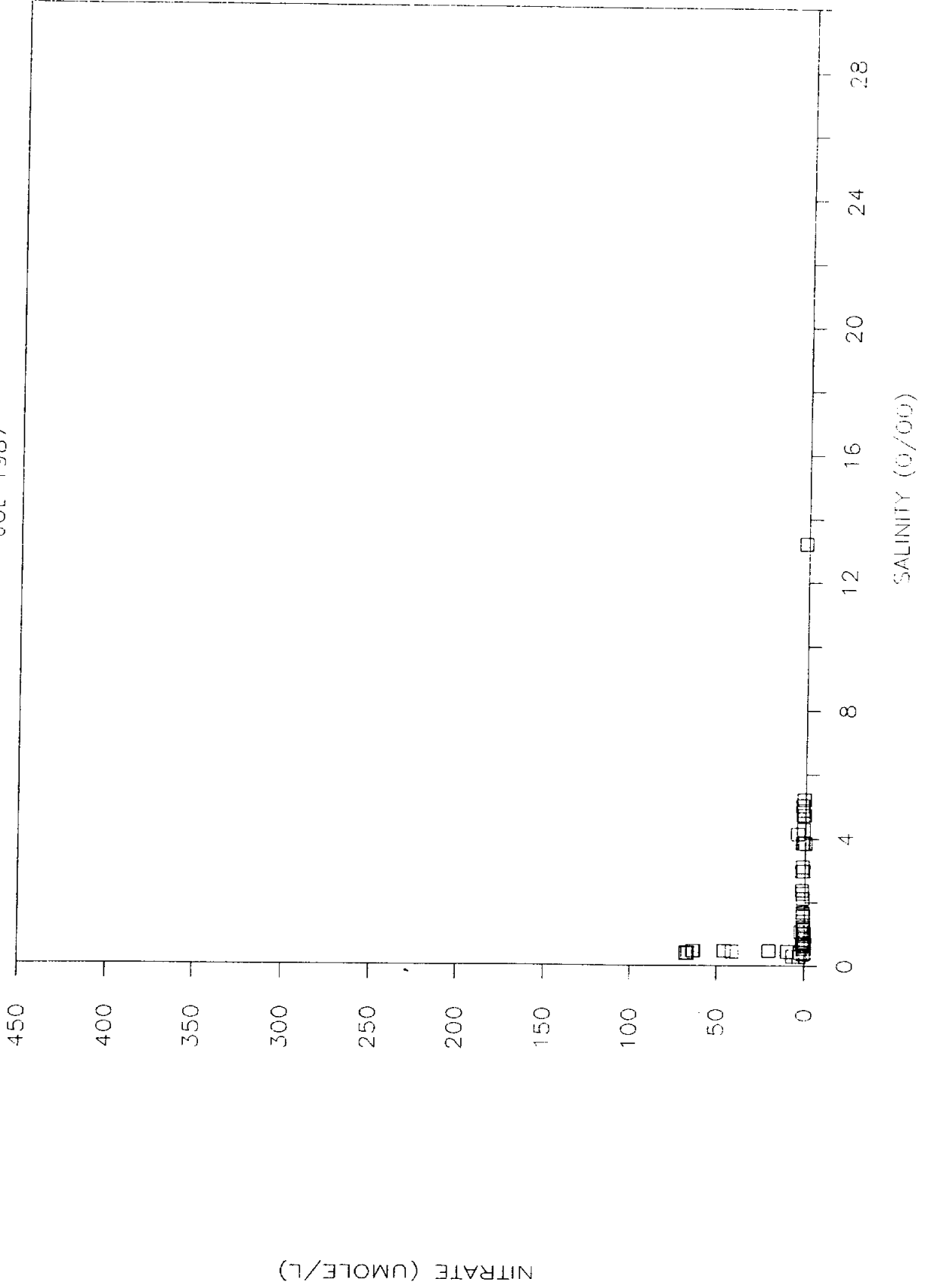
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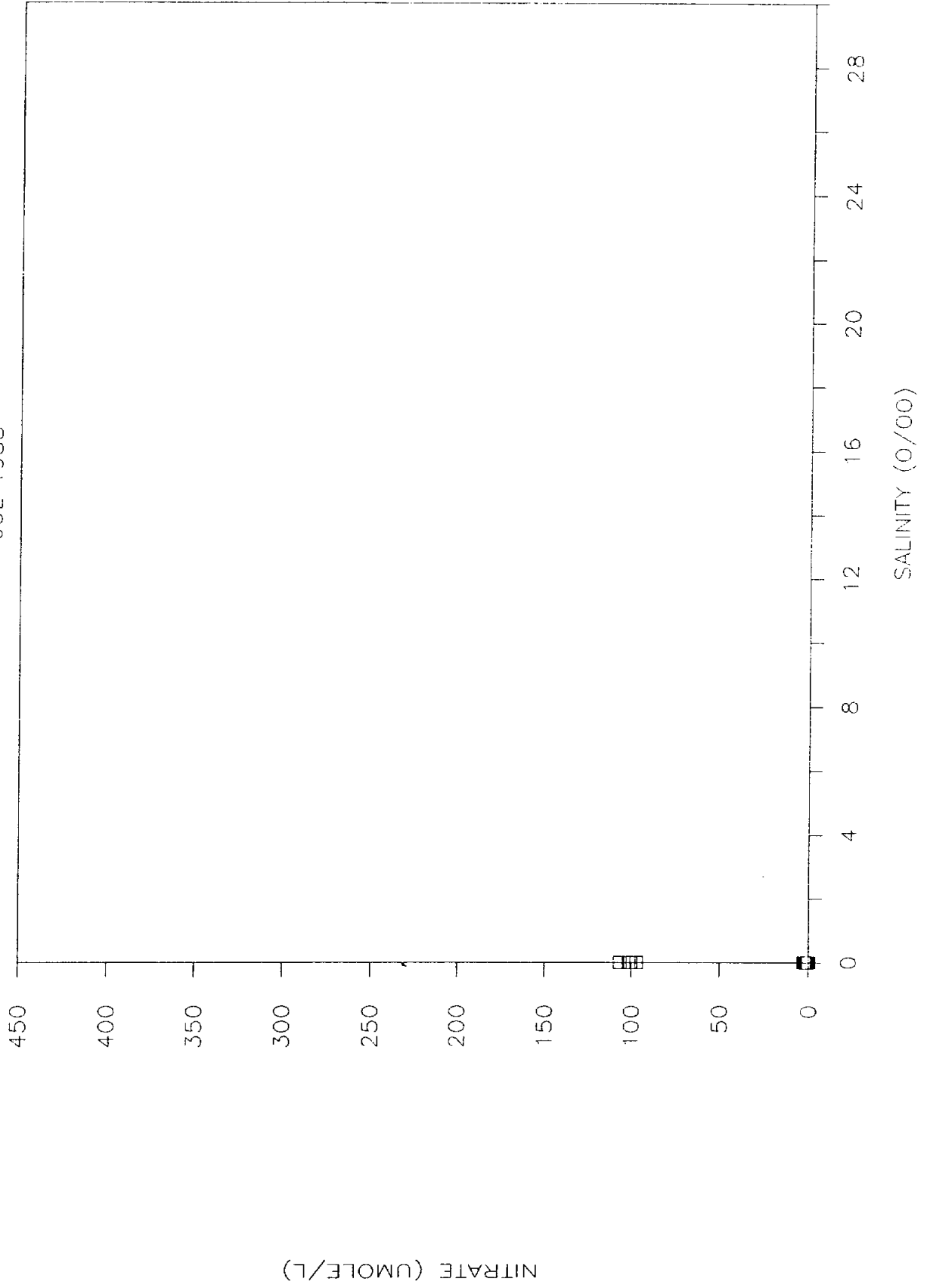
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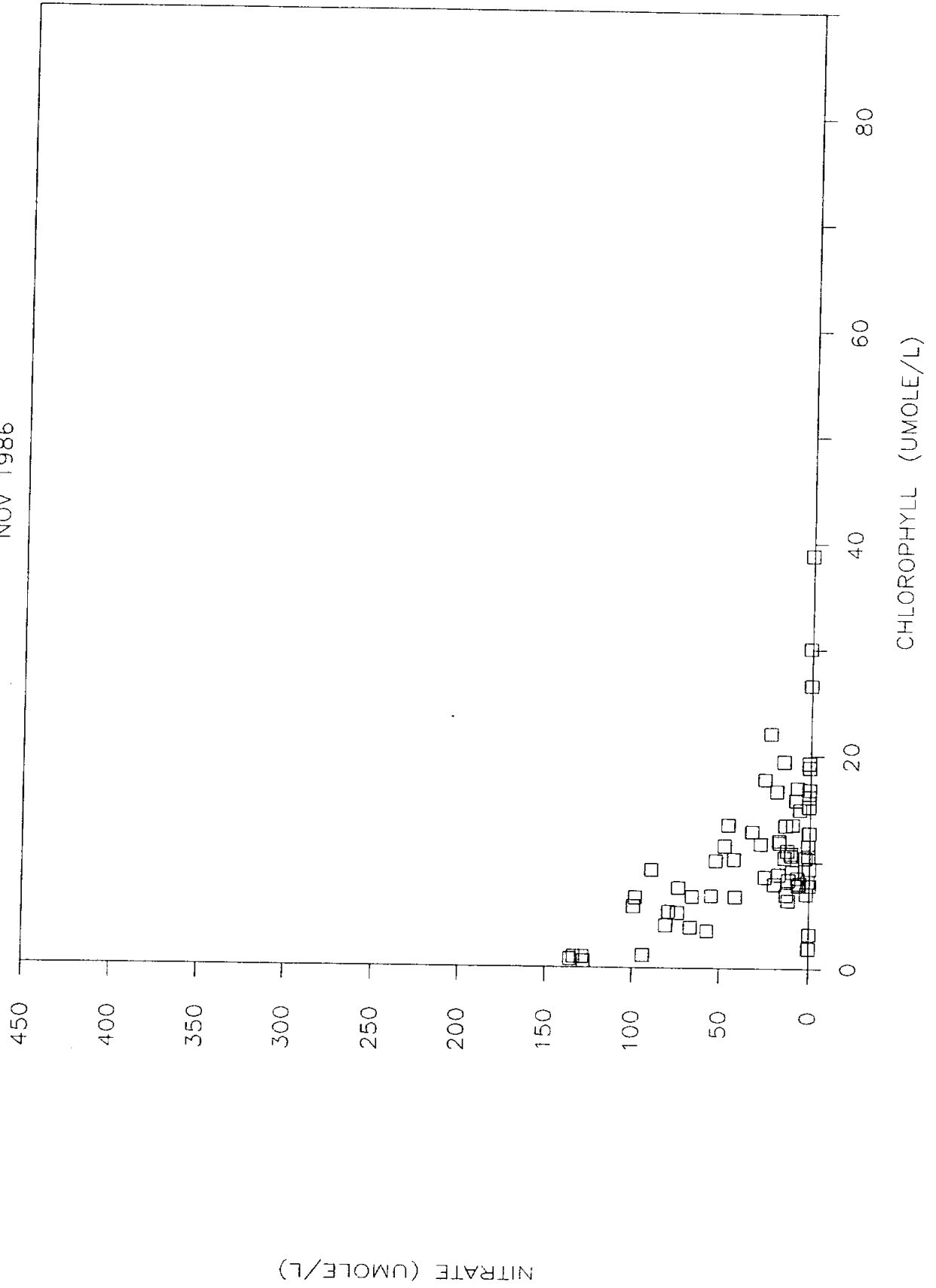
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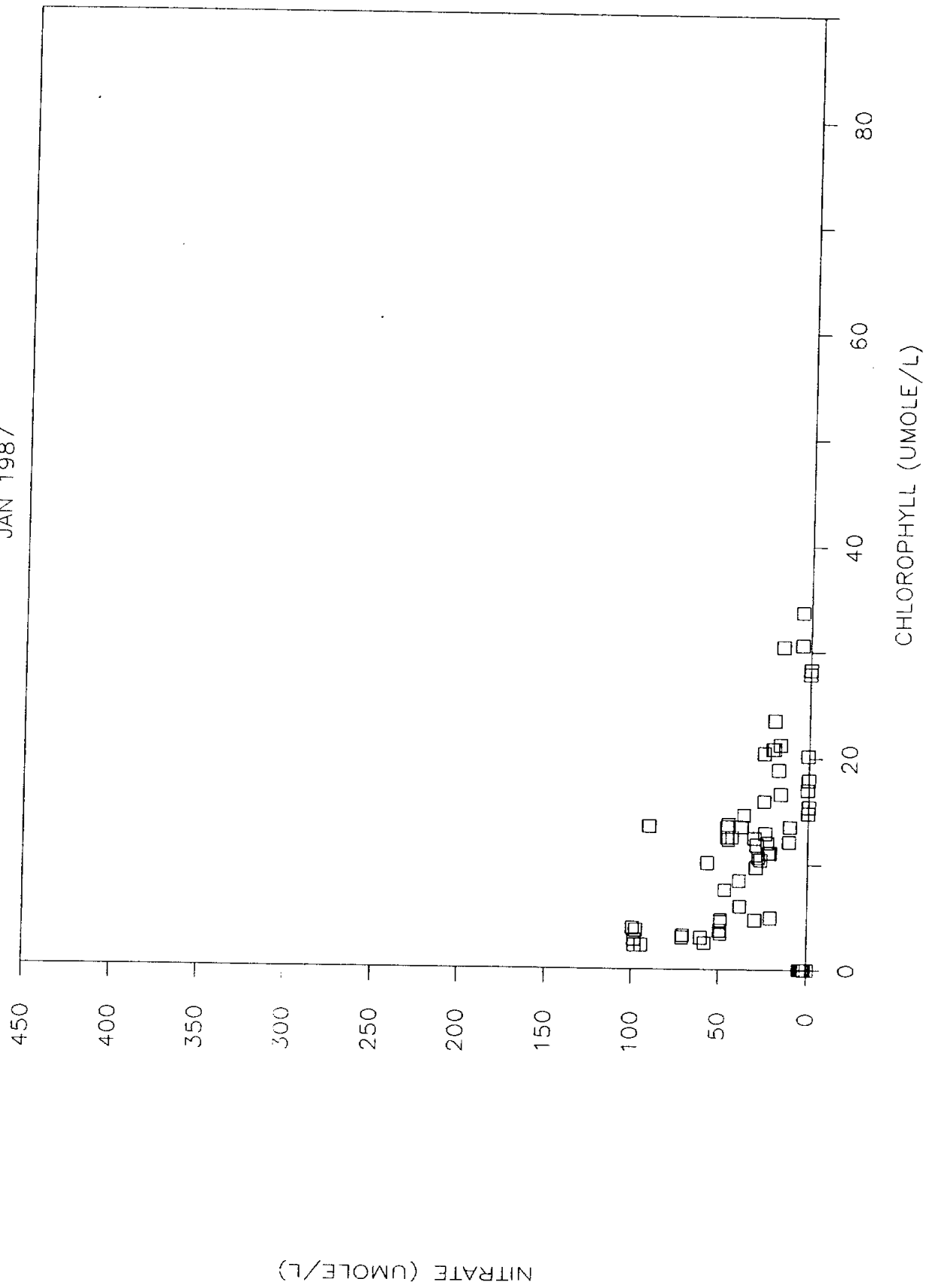
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NOV 1986



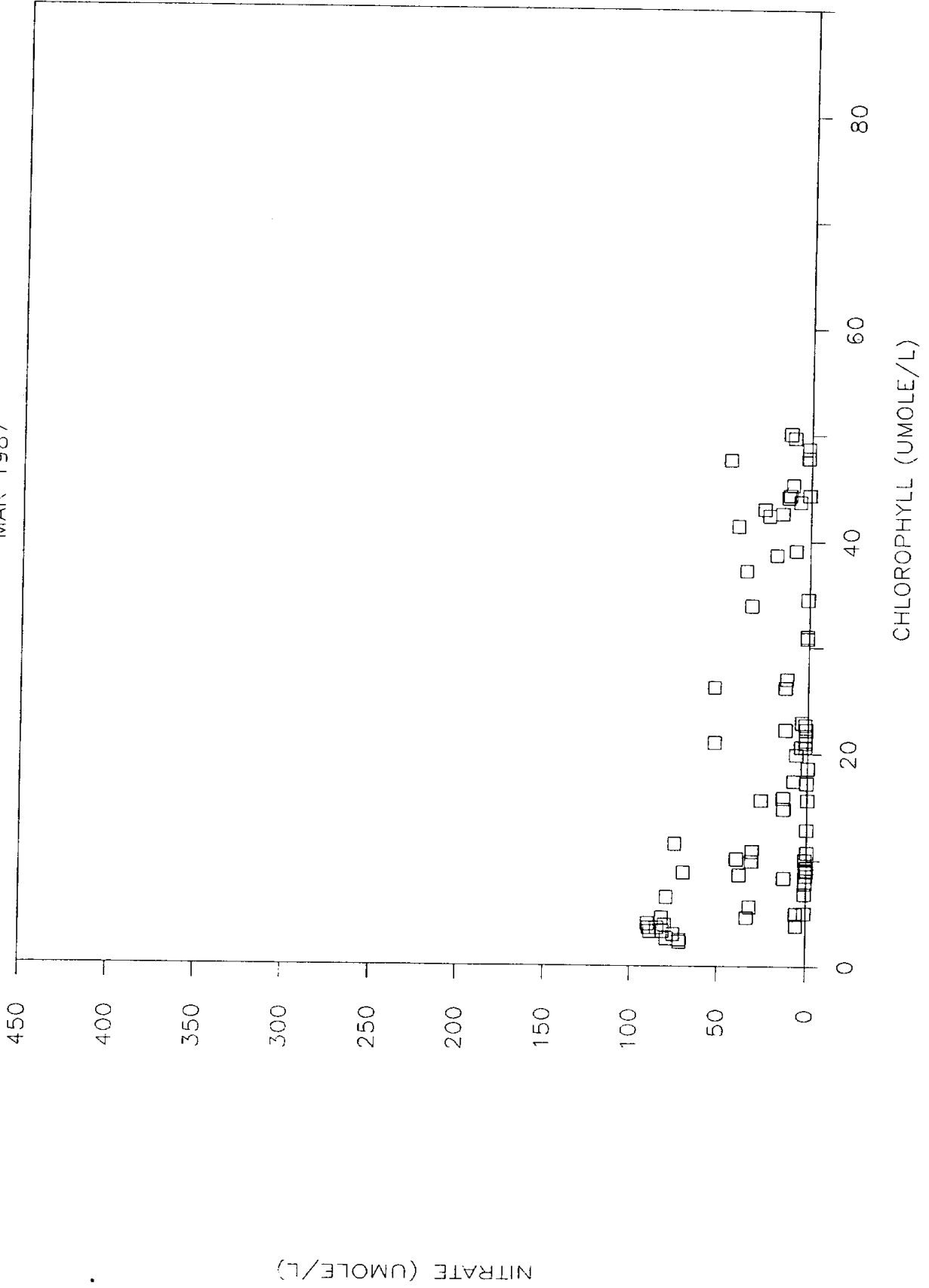
NIPS-I

JAN 1987



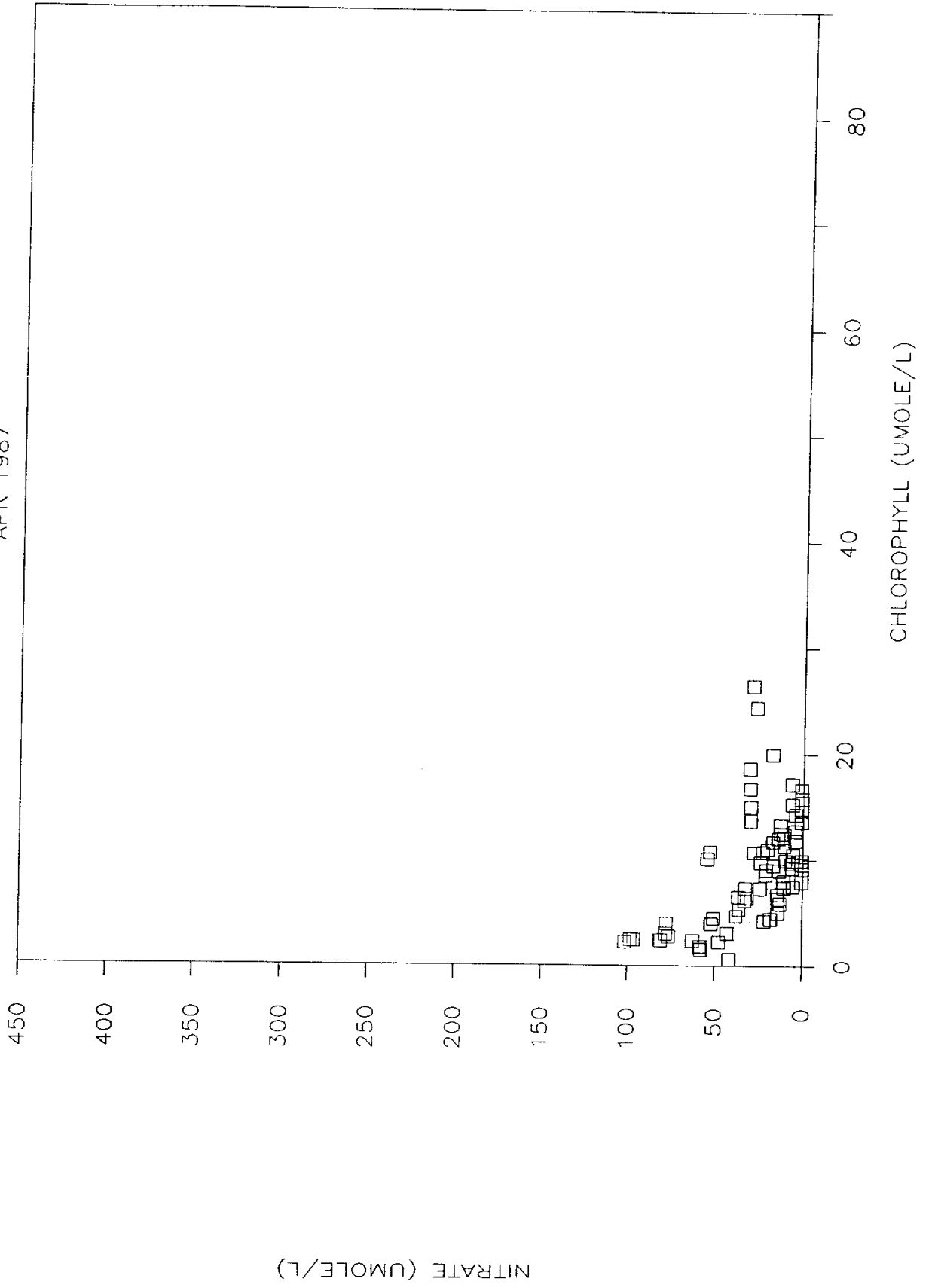
NIPS-I

MAR 1987



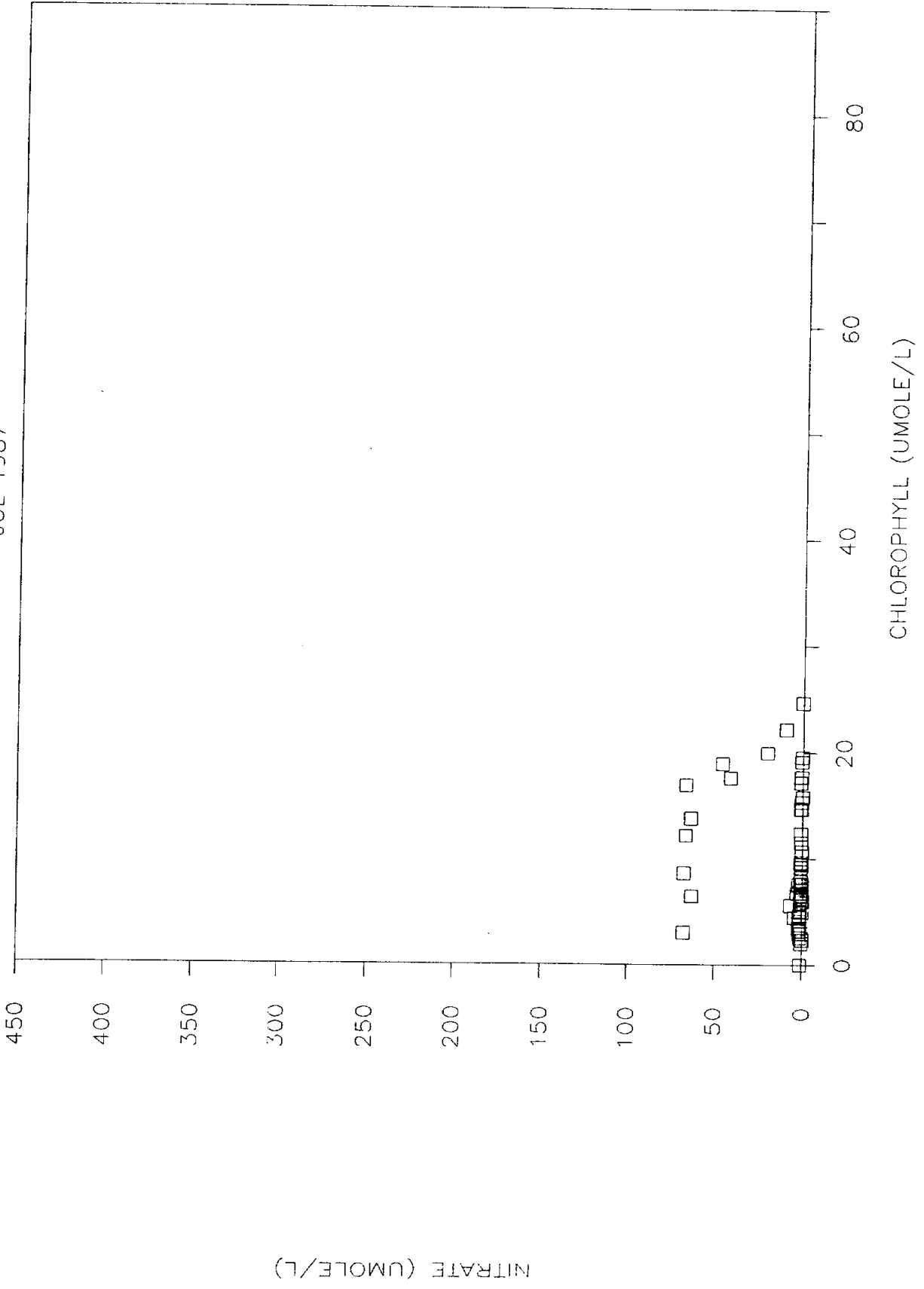
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APR 1987



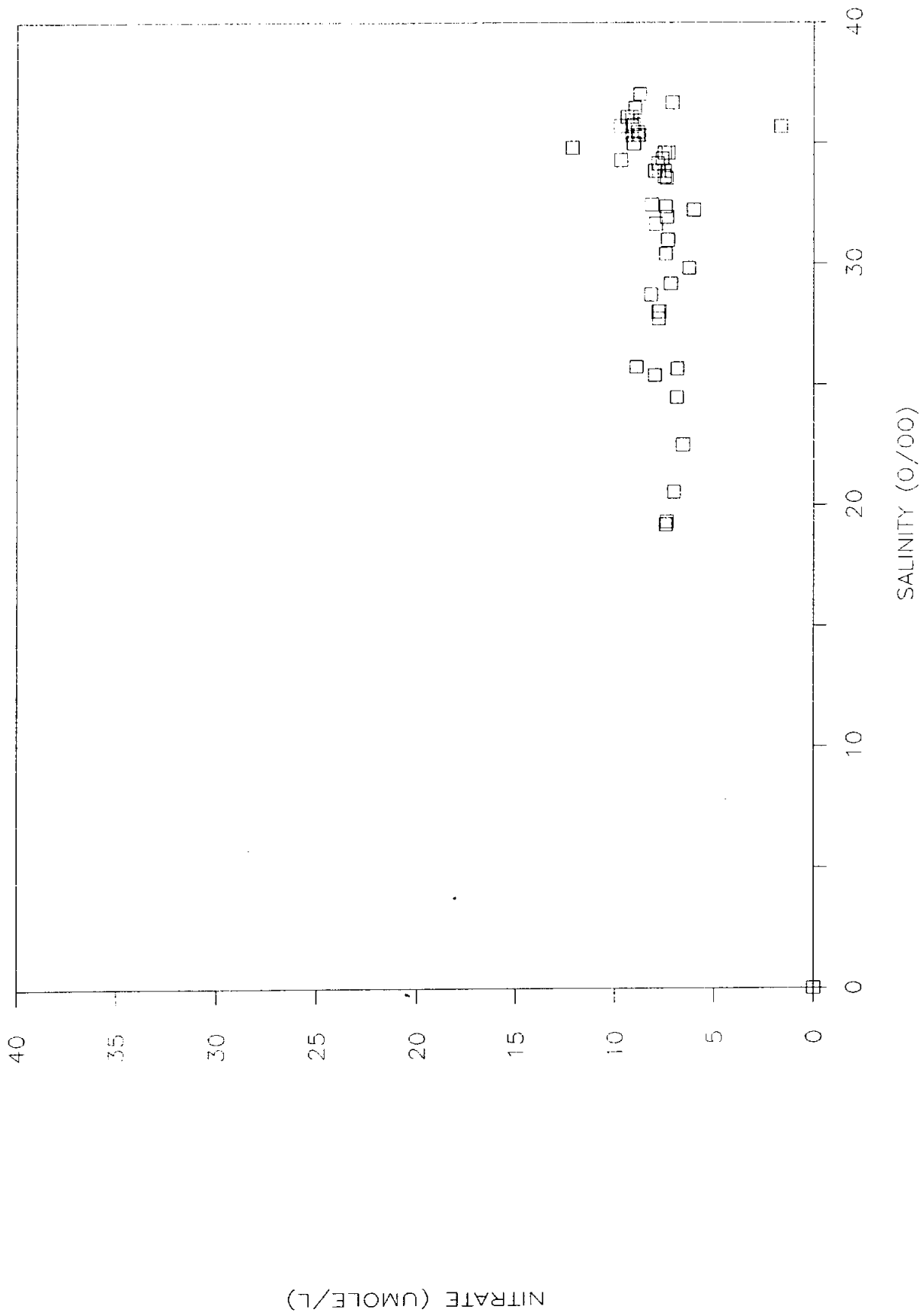
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JUL 1987



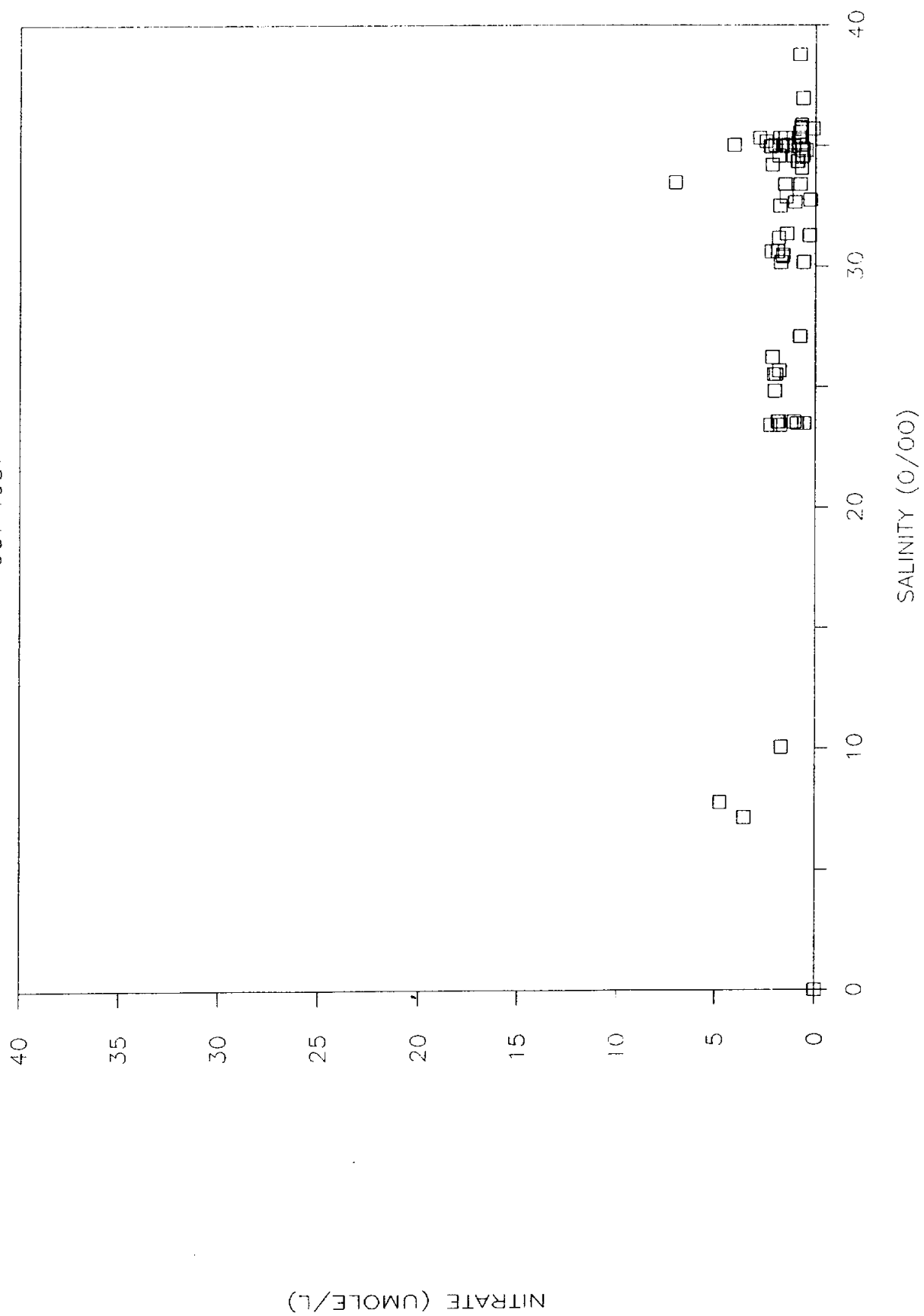
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SEP 1987



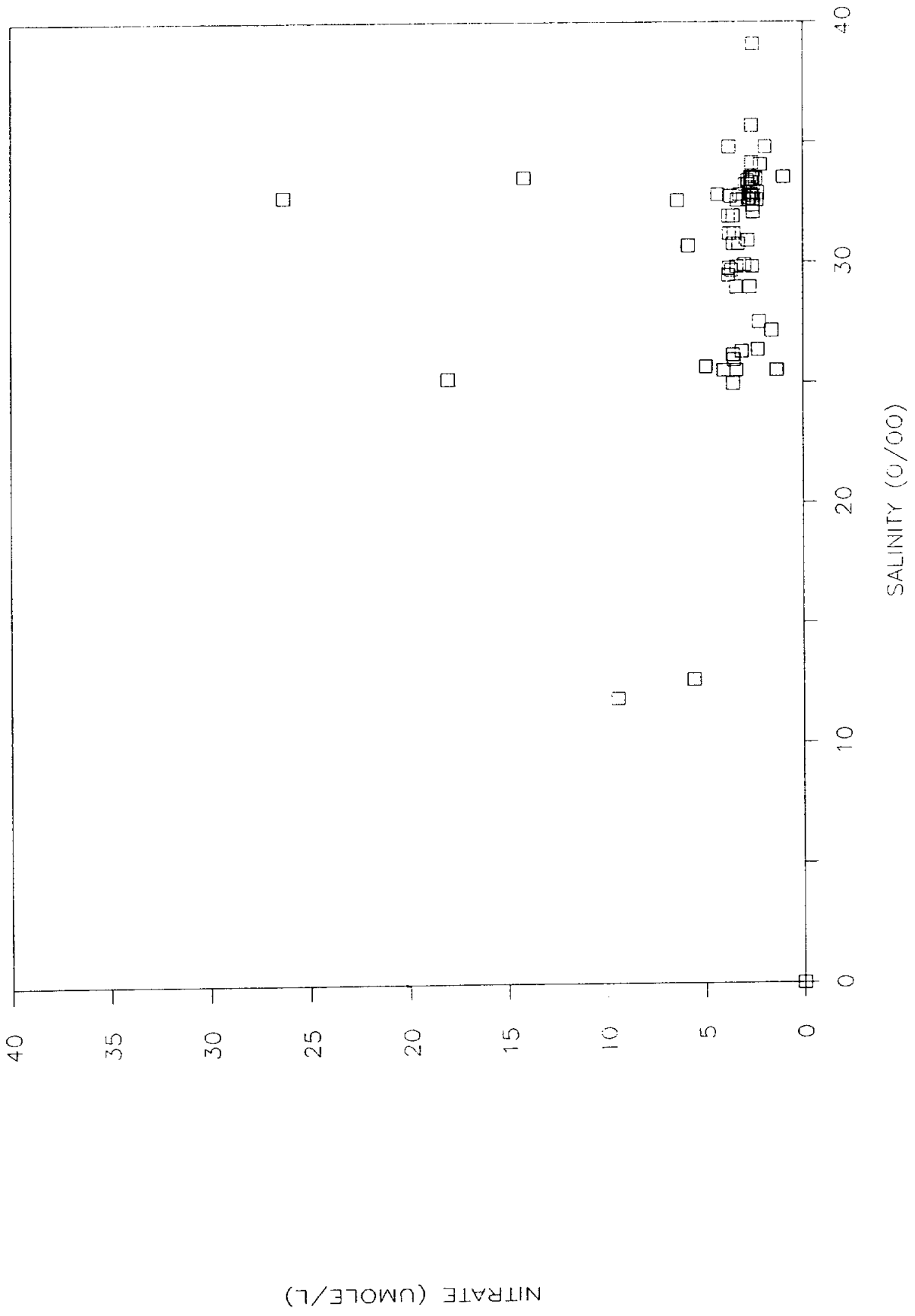
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OCT 1987



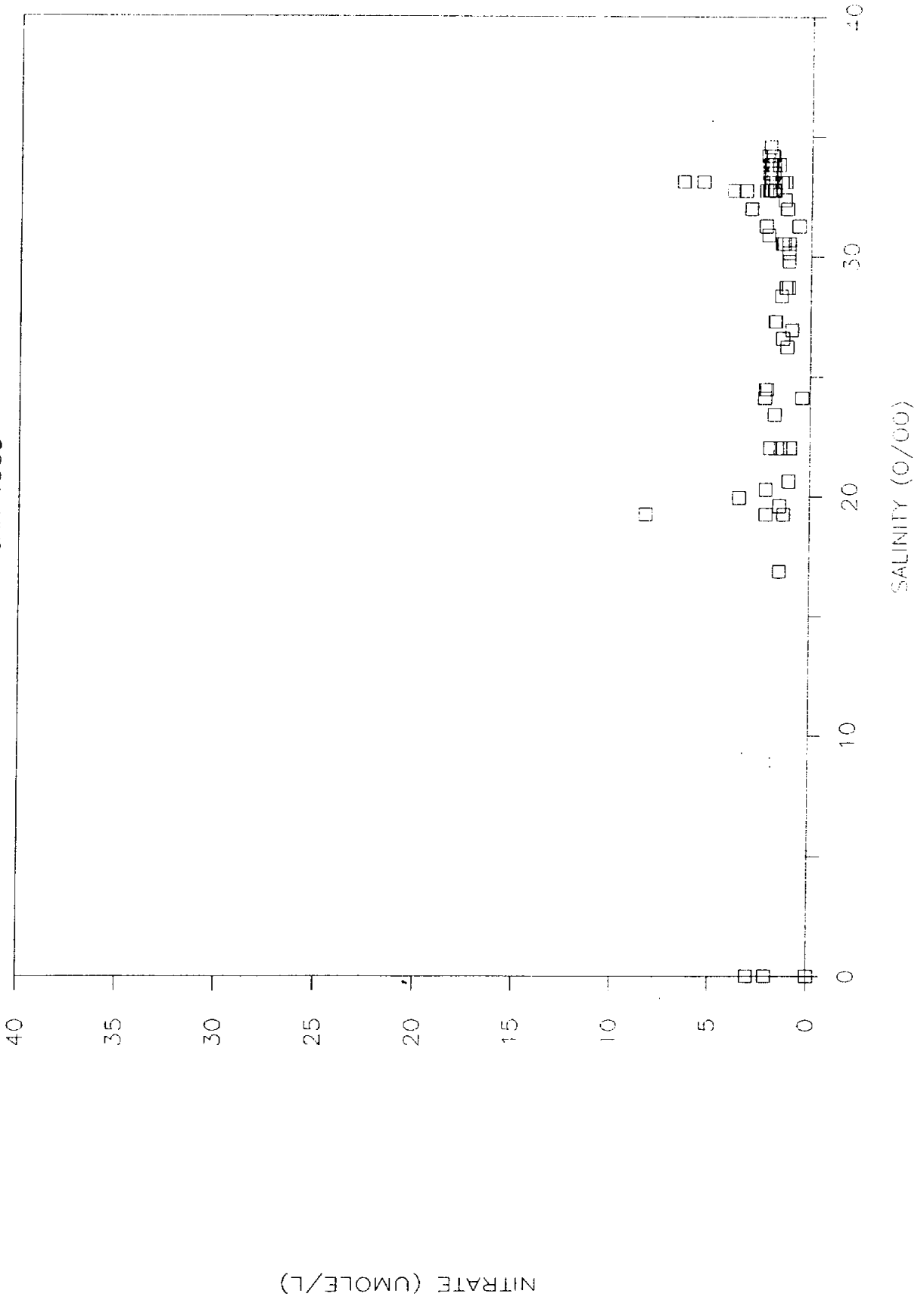
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DEC 1987



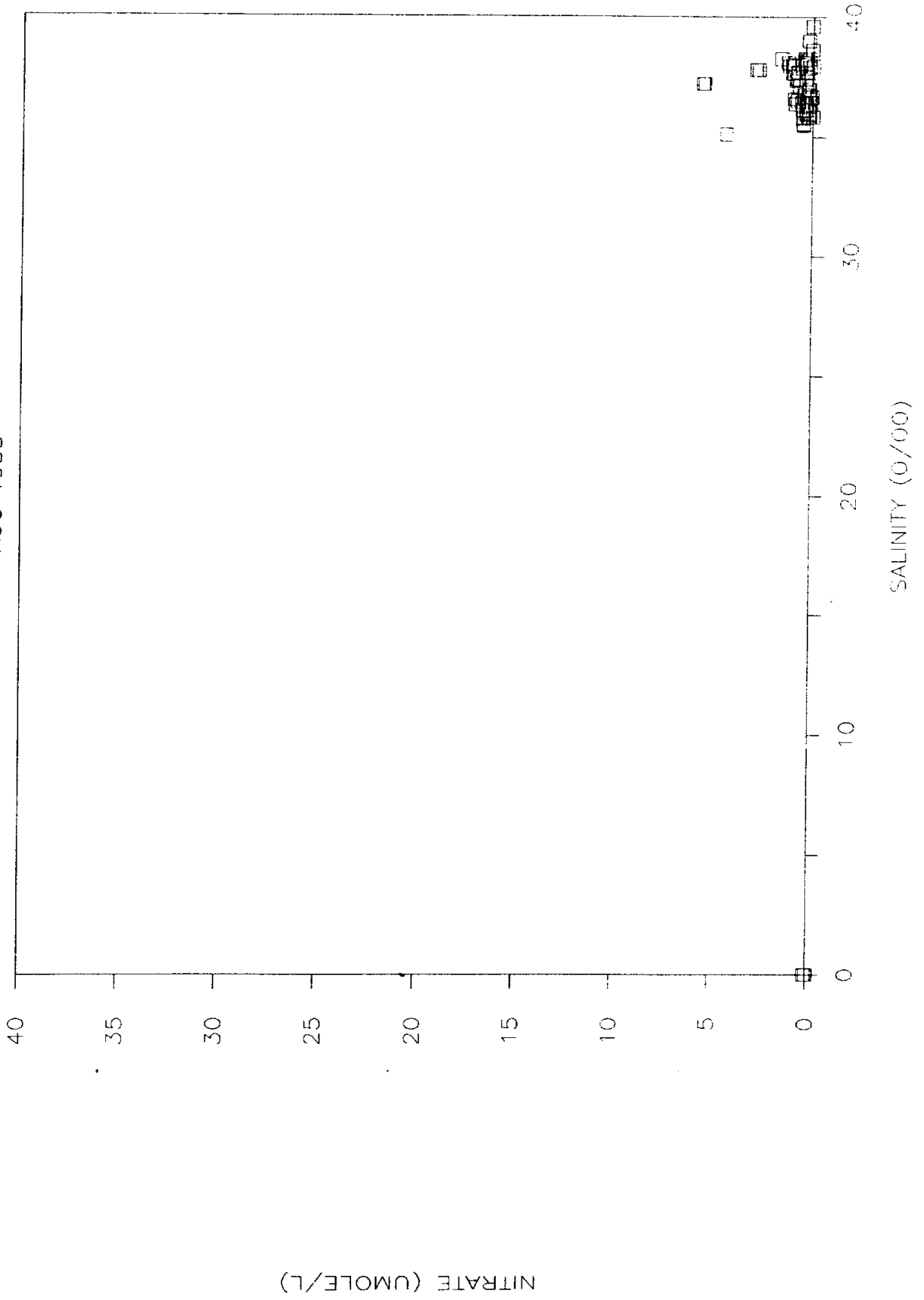
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JAN 1988



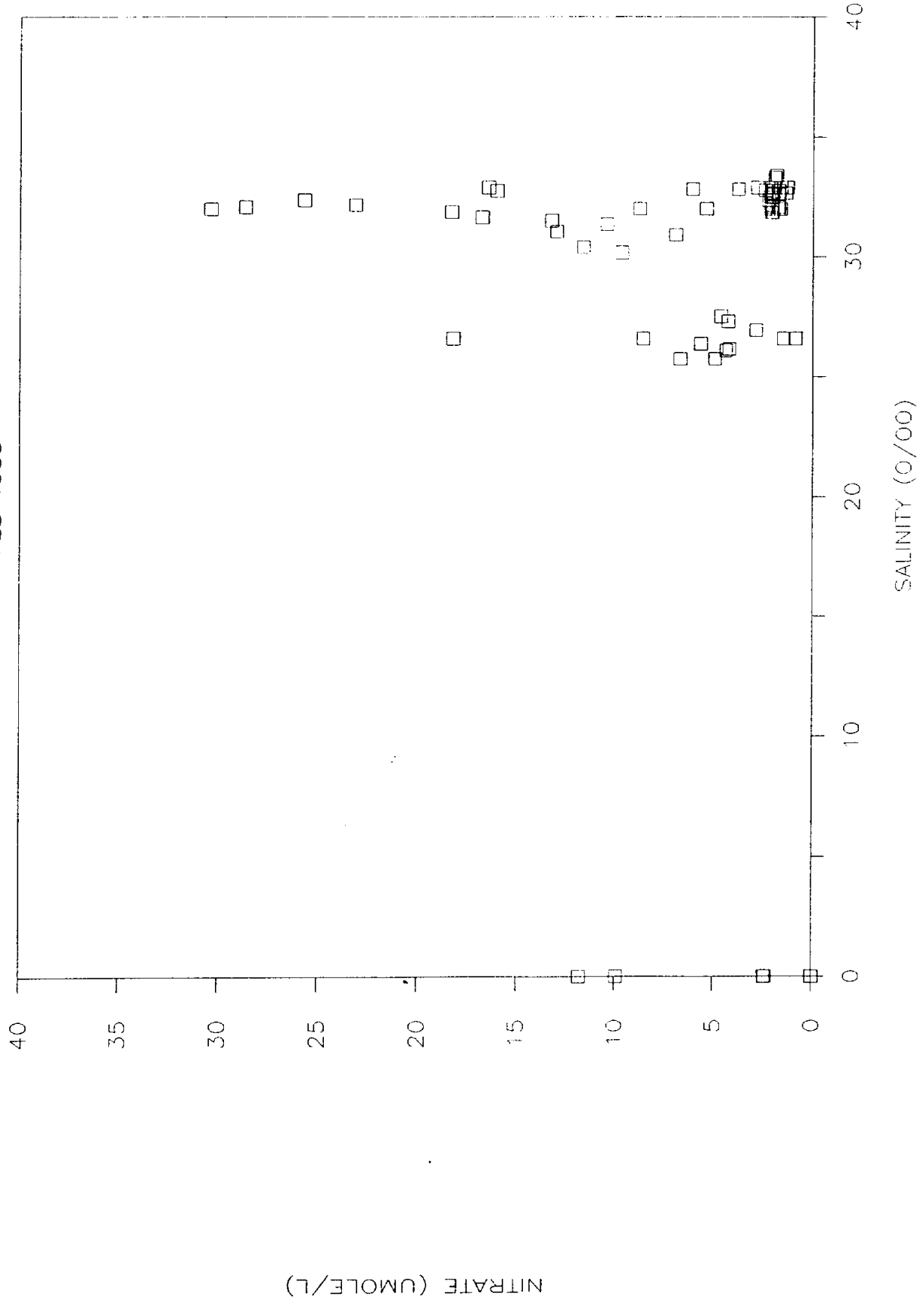
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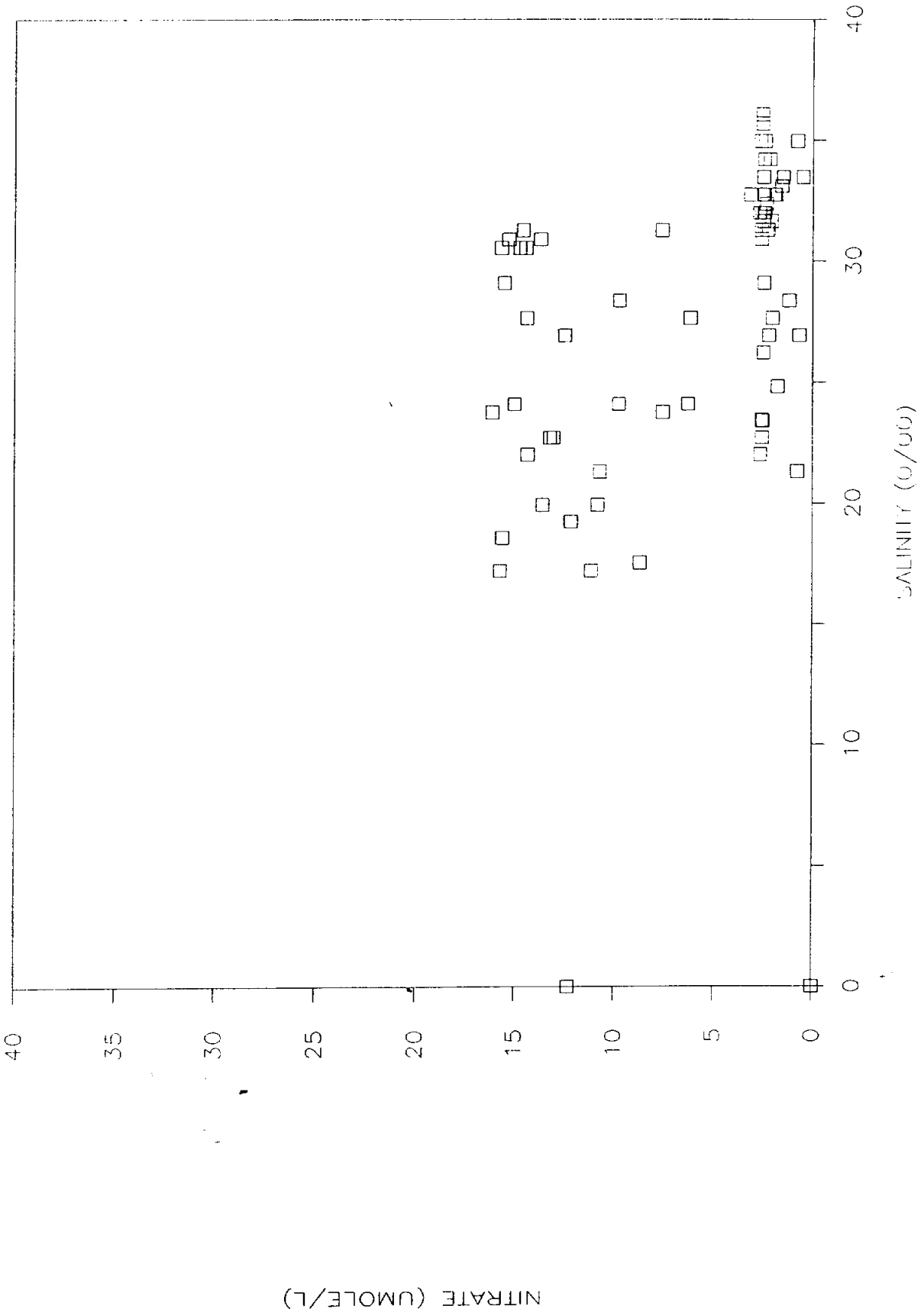
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FEB 1988



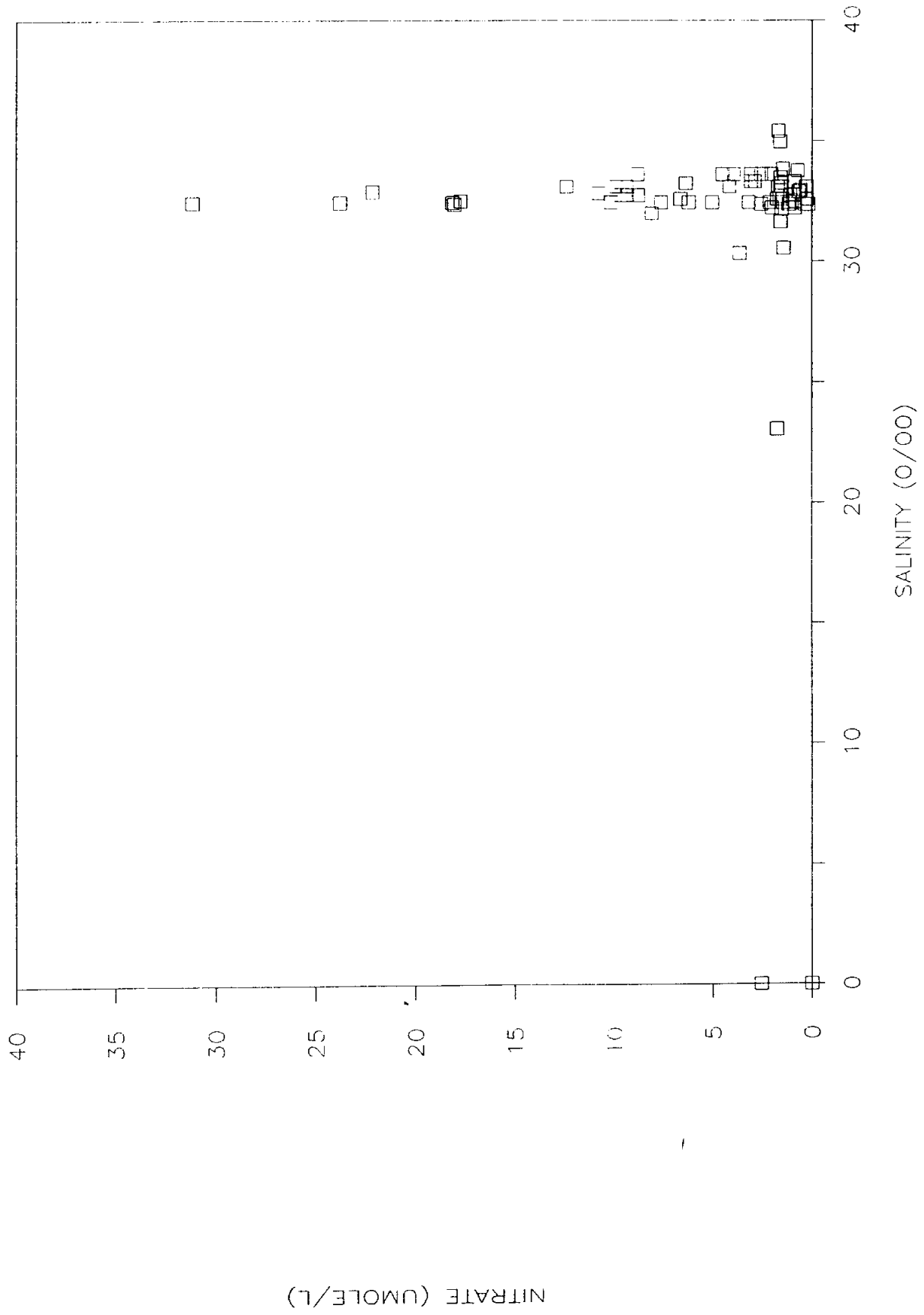
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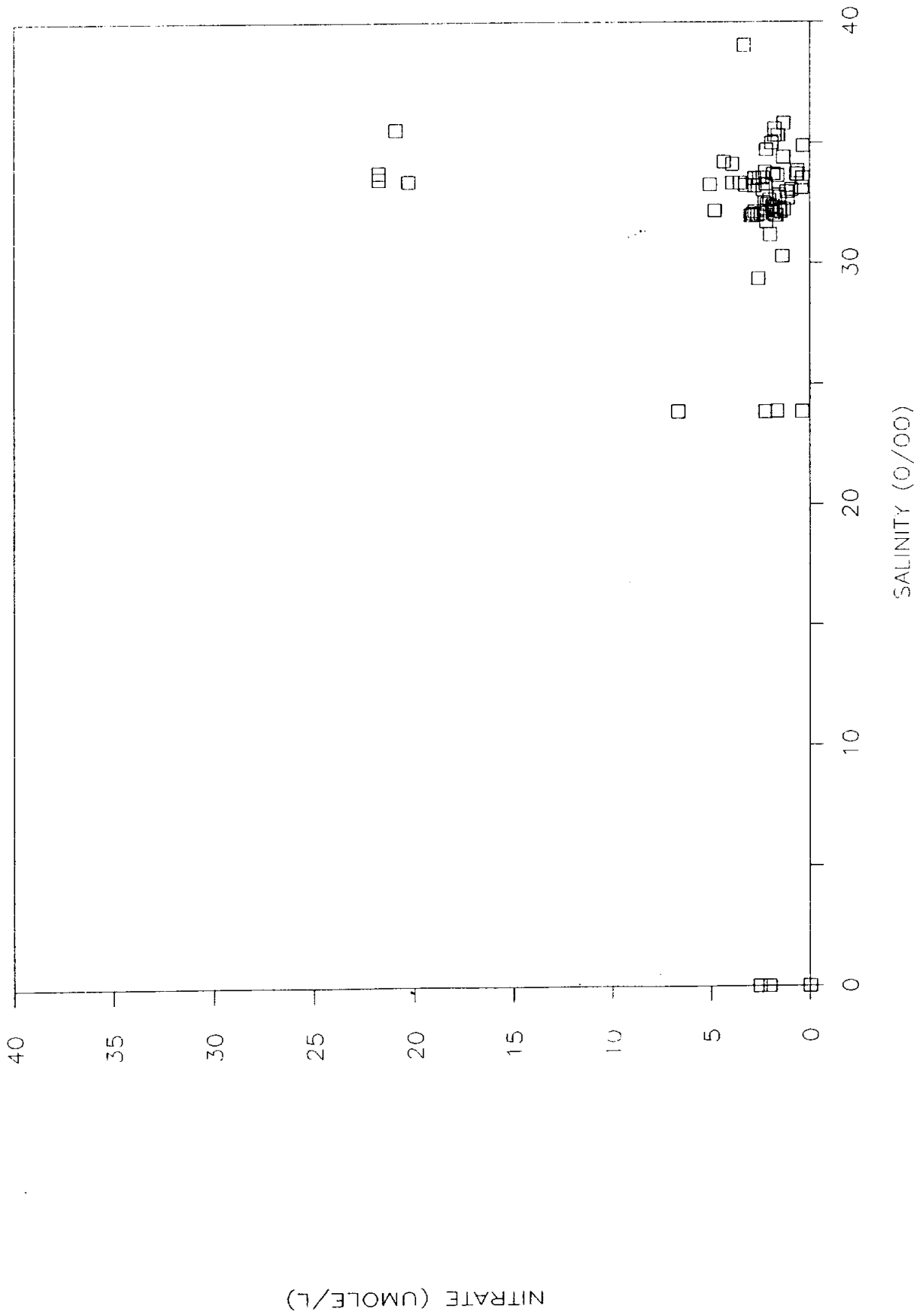
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APR 1988



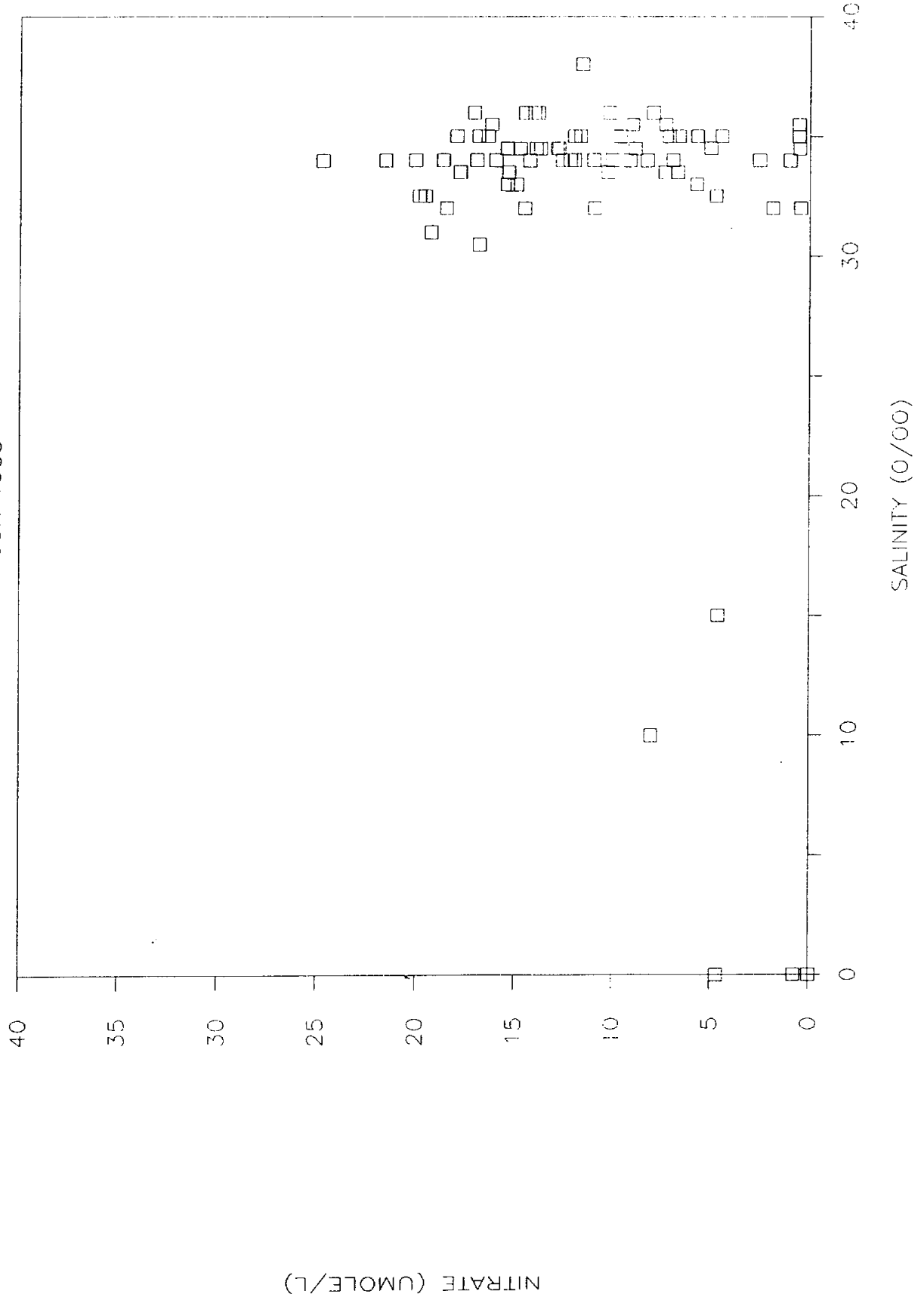
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MAY 1988



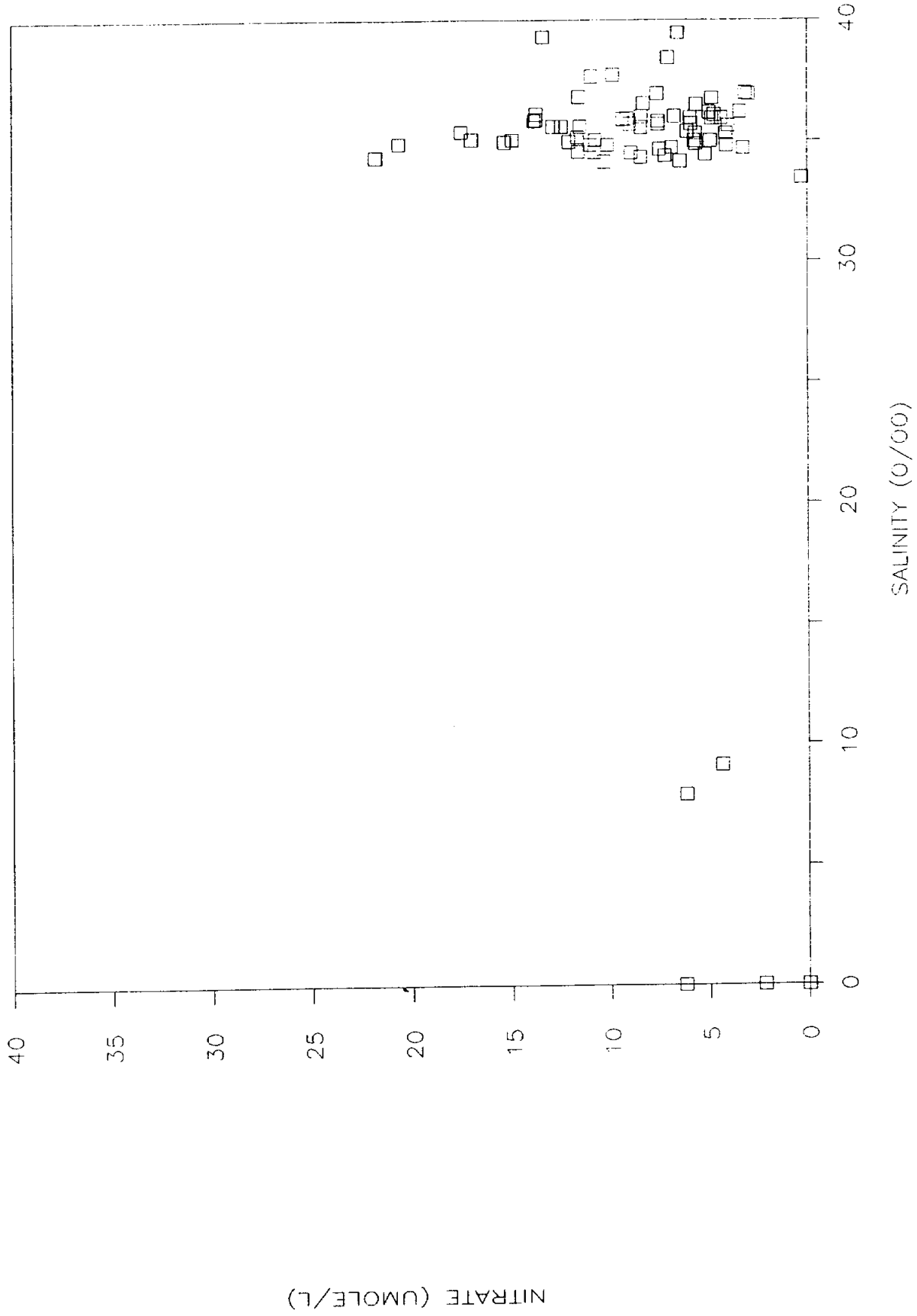
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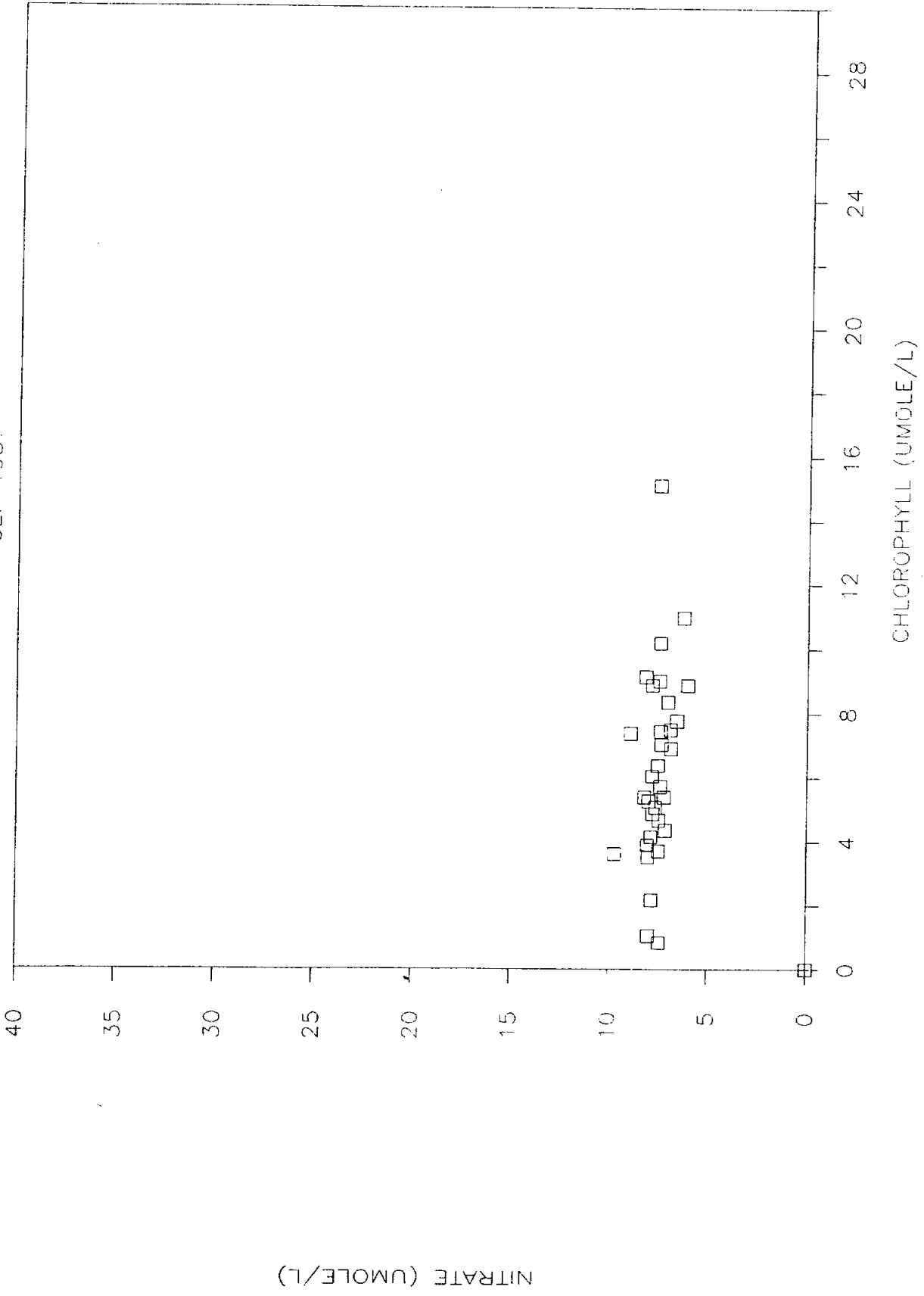
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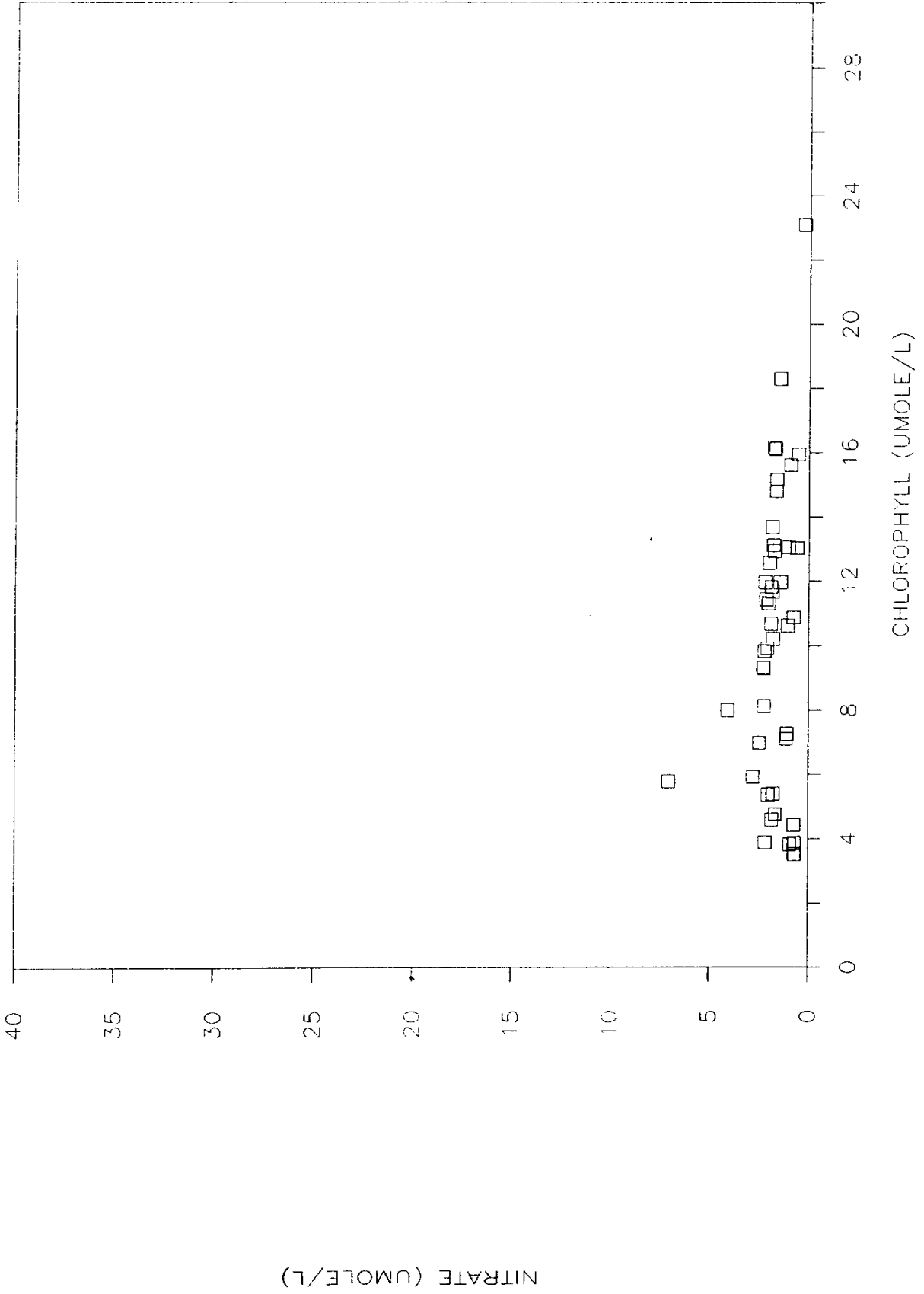
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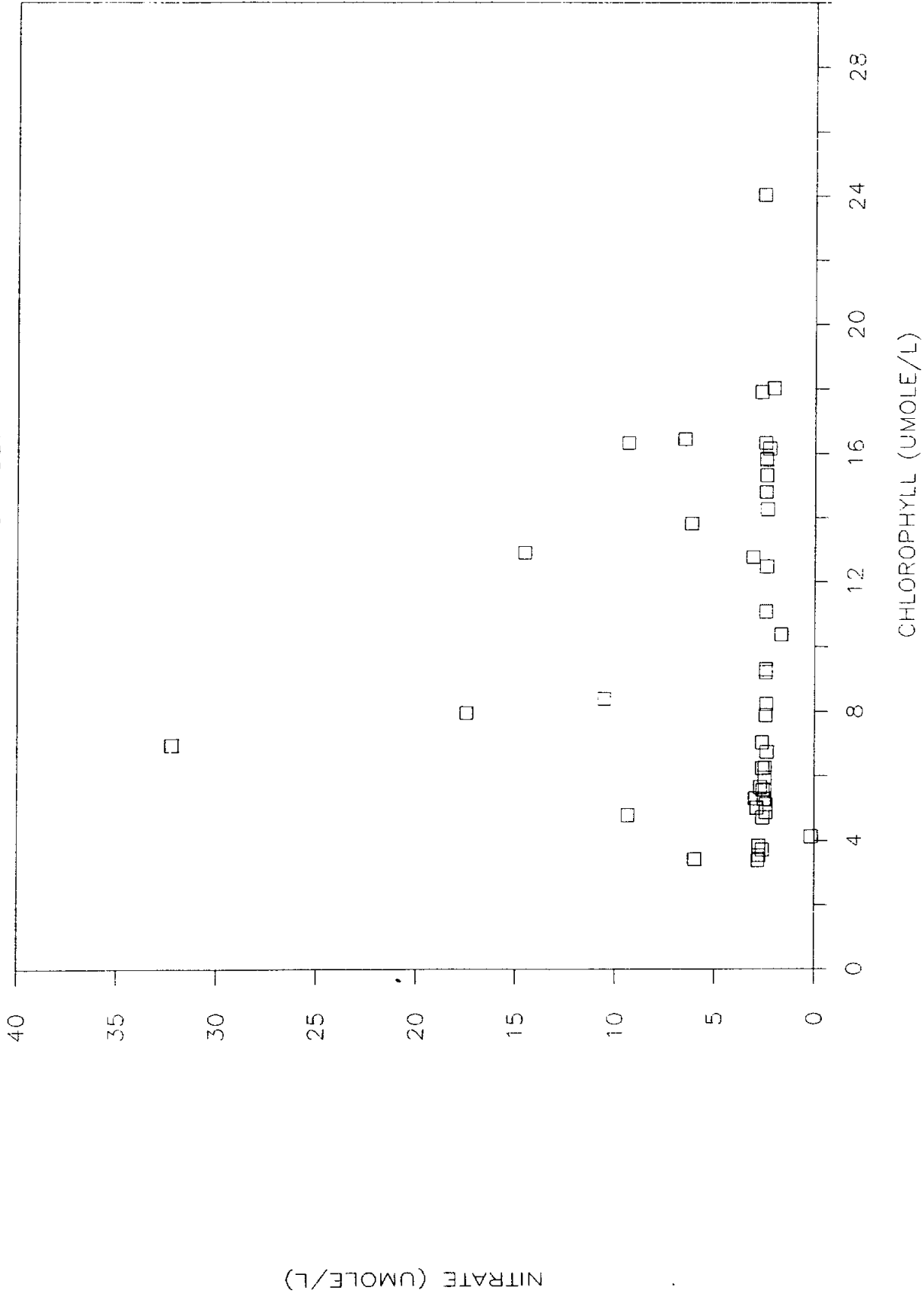
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OCT 1987



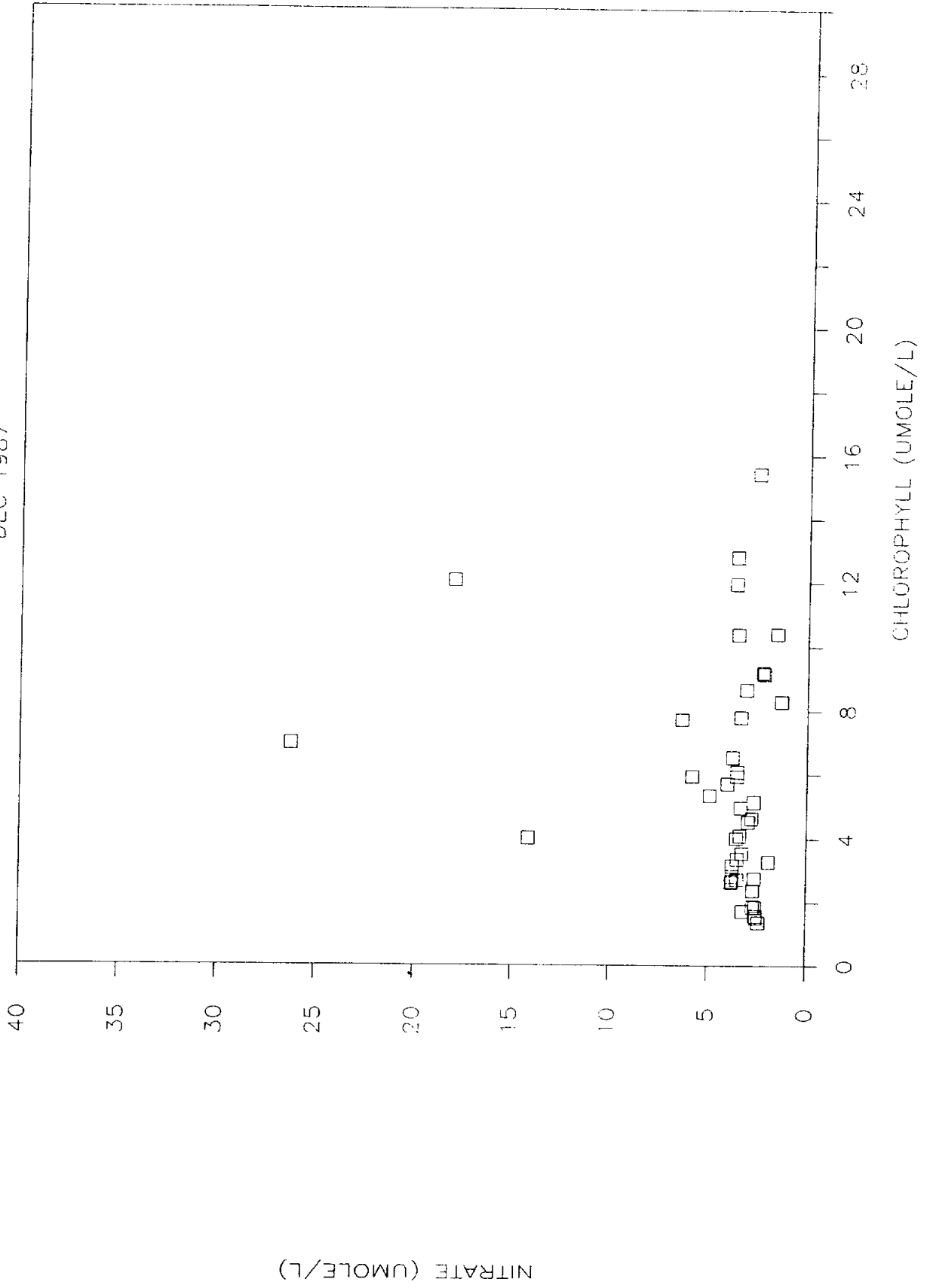
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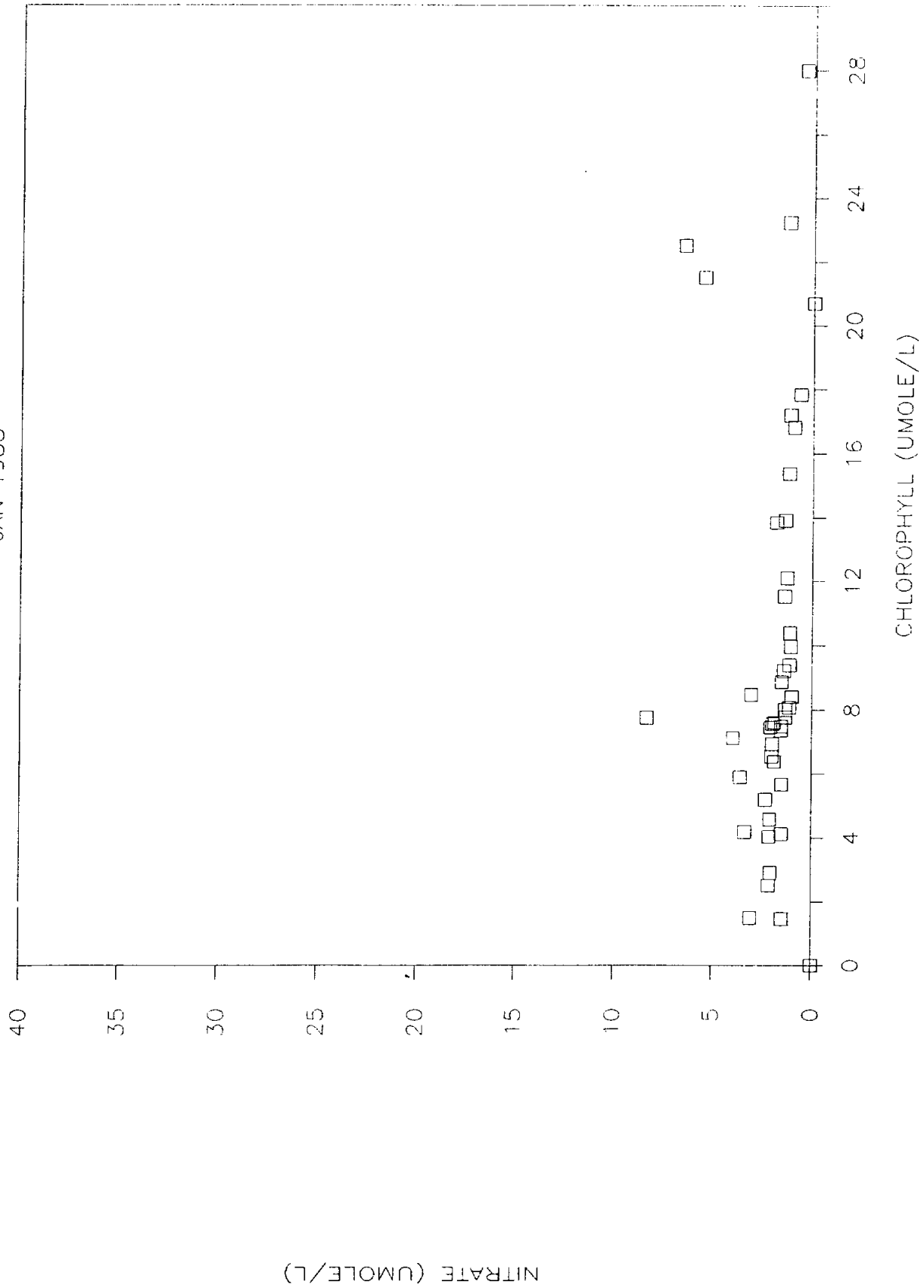
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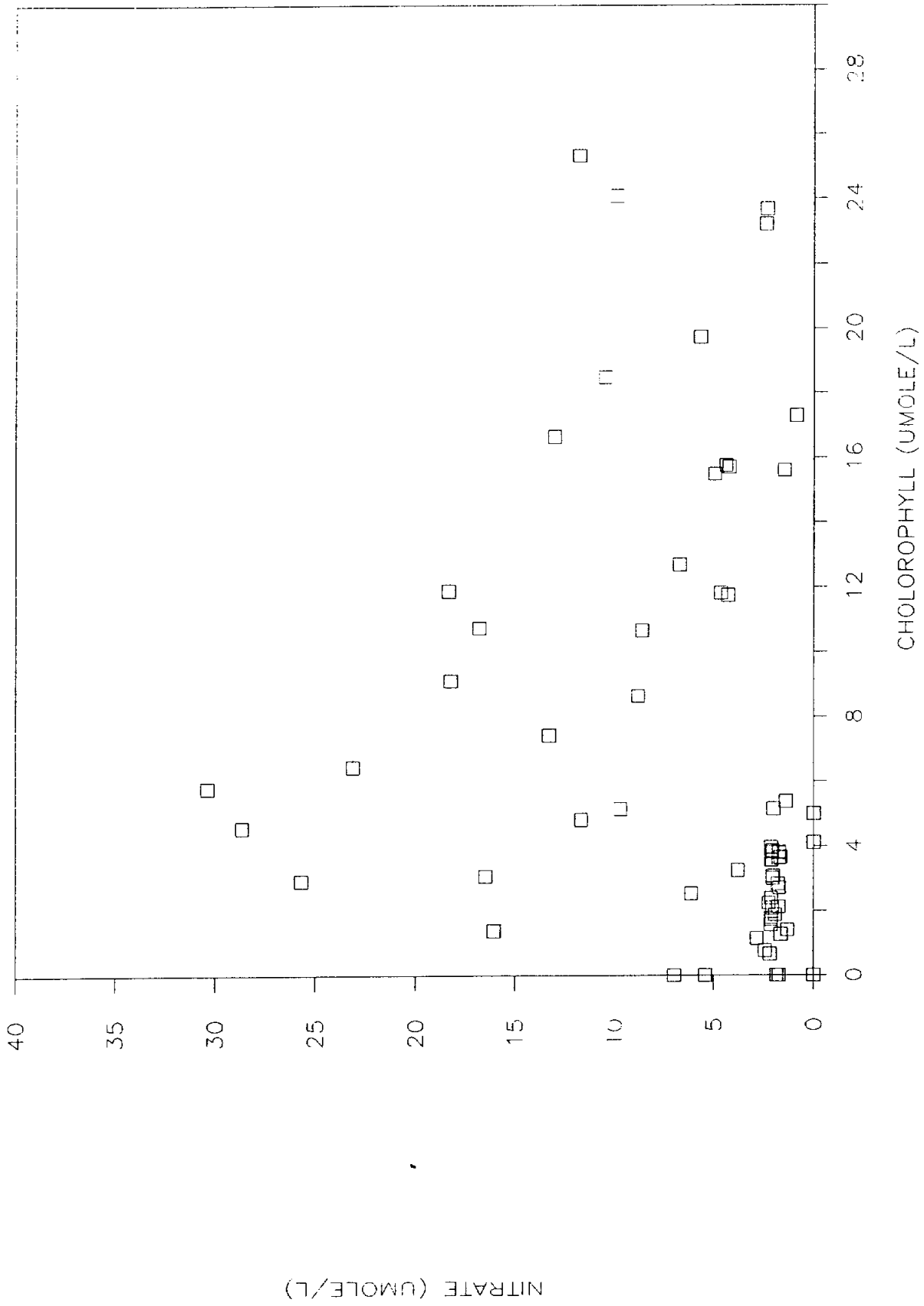
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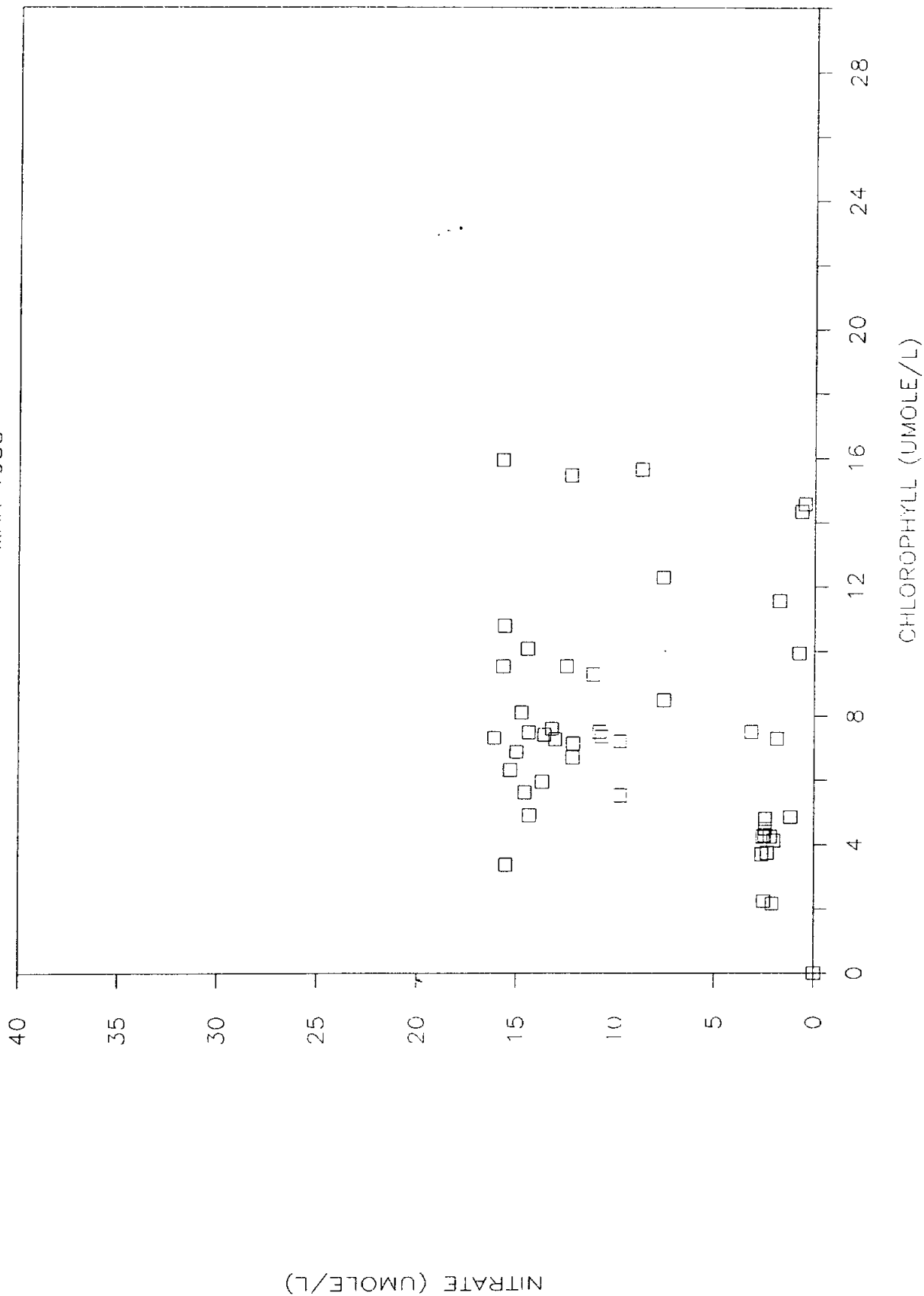
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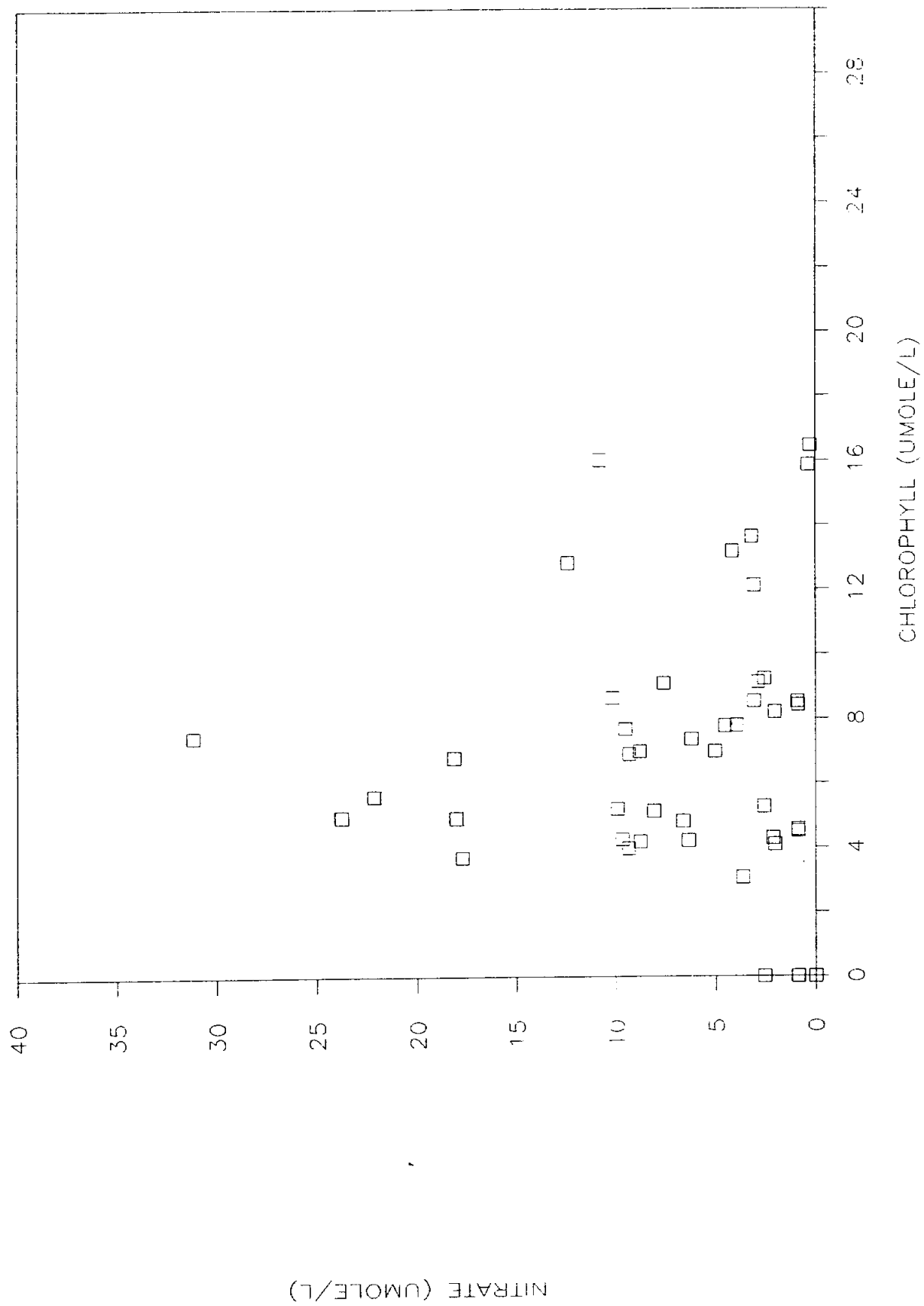
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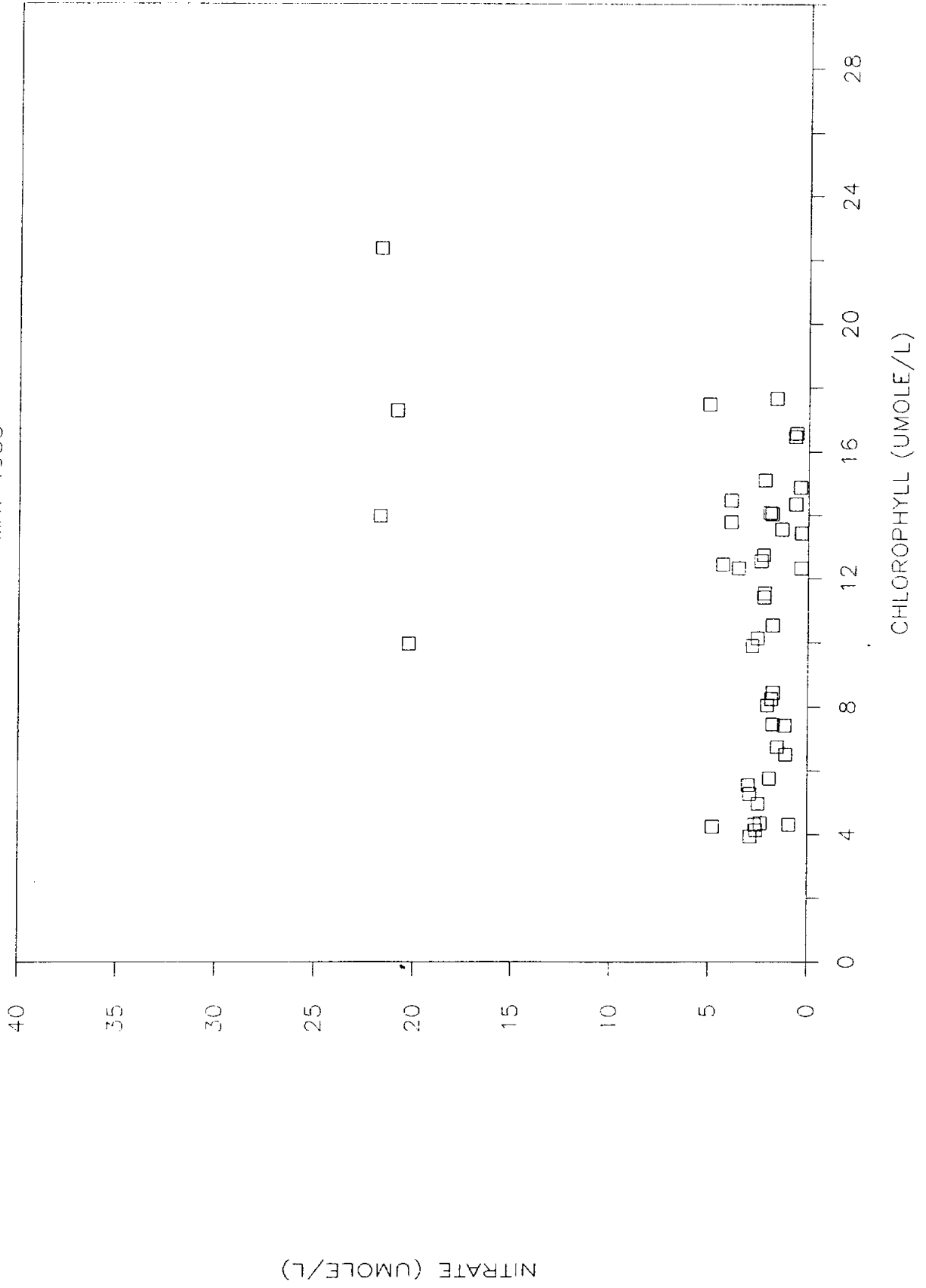
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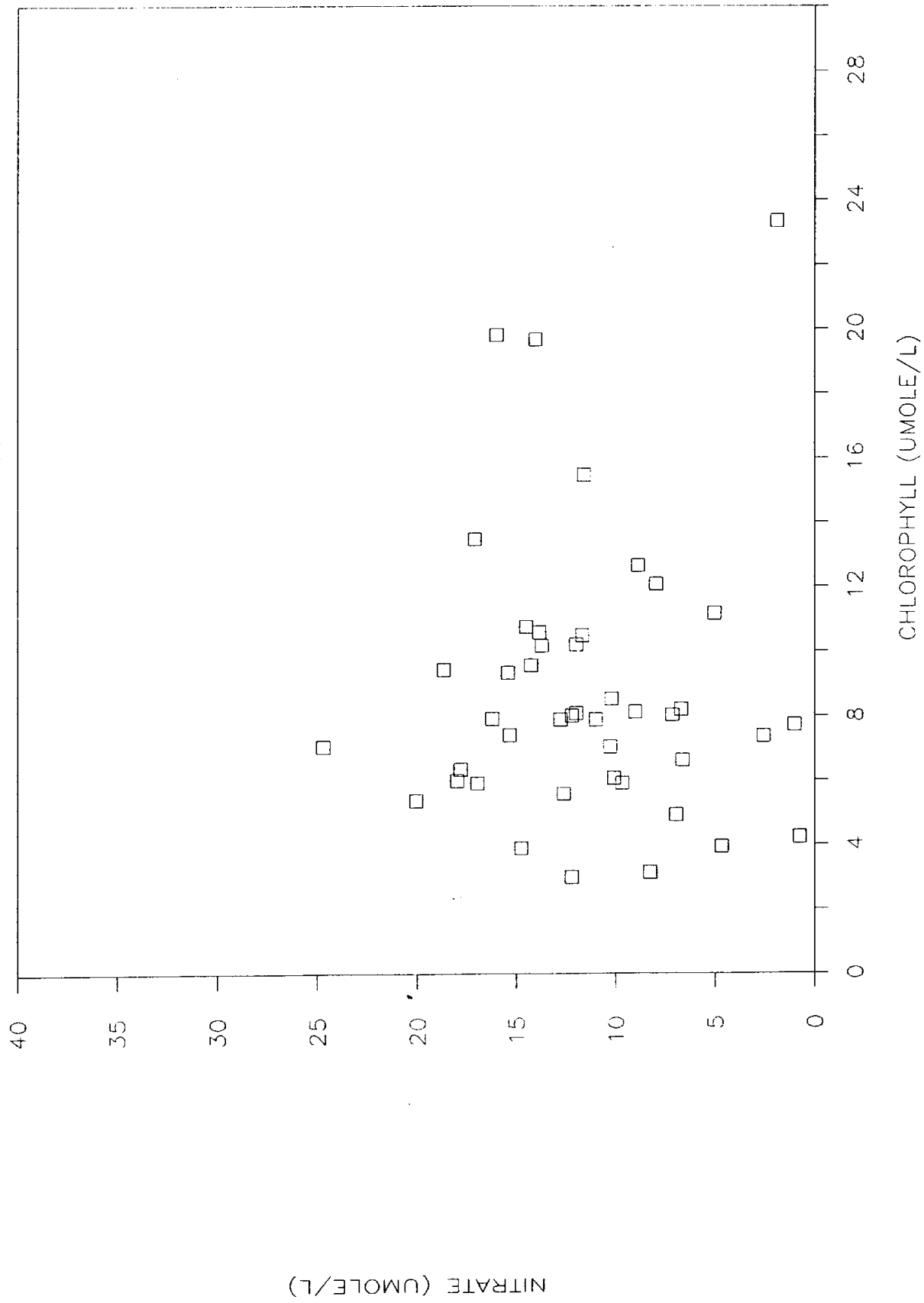
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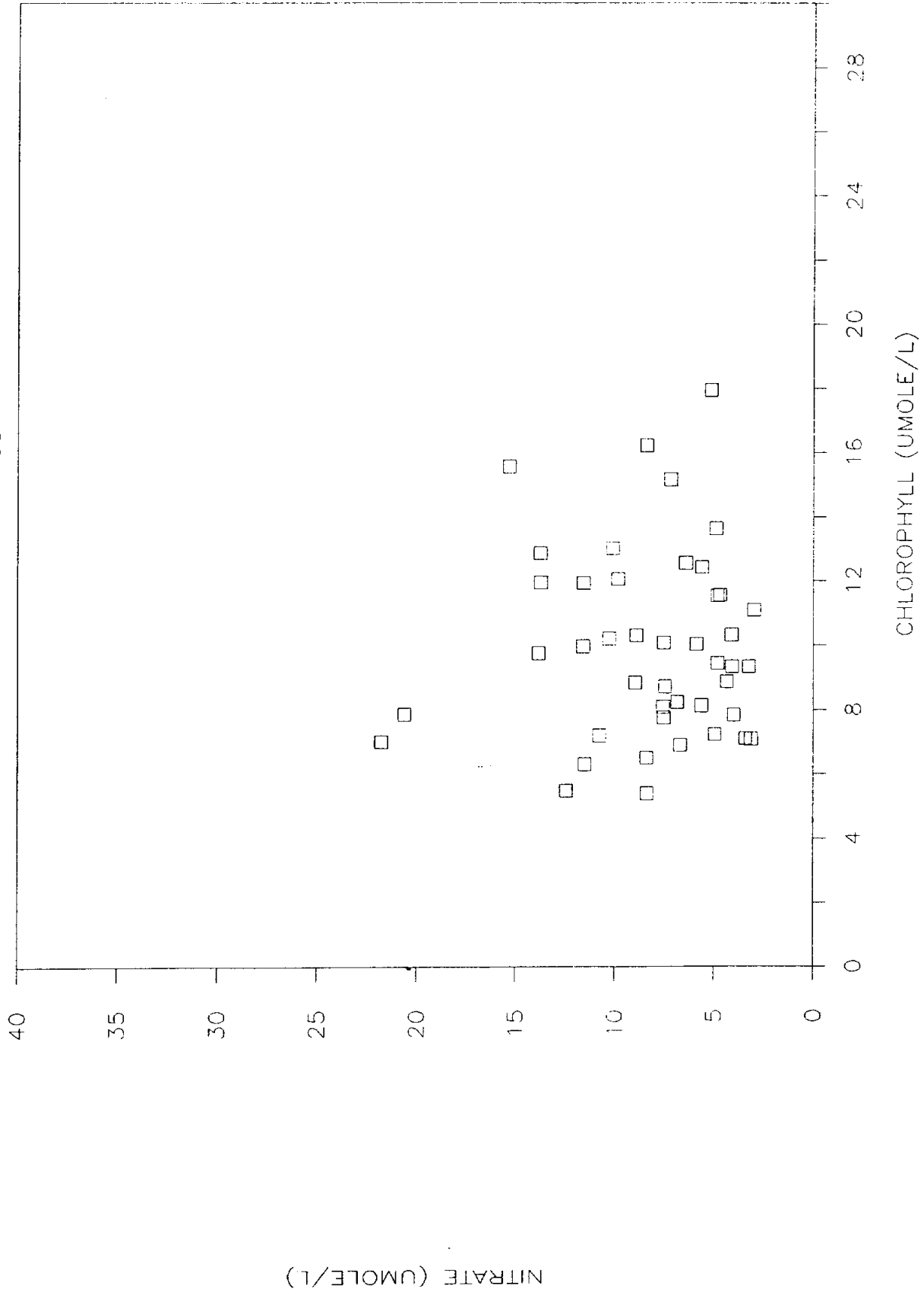
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JUN 1988



NIPS-II

JUL 1988



NIPS--II

AUG 1988

