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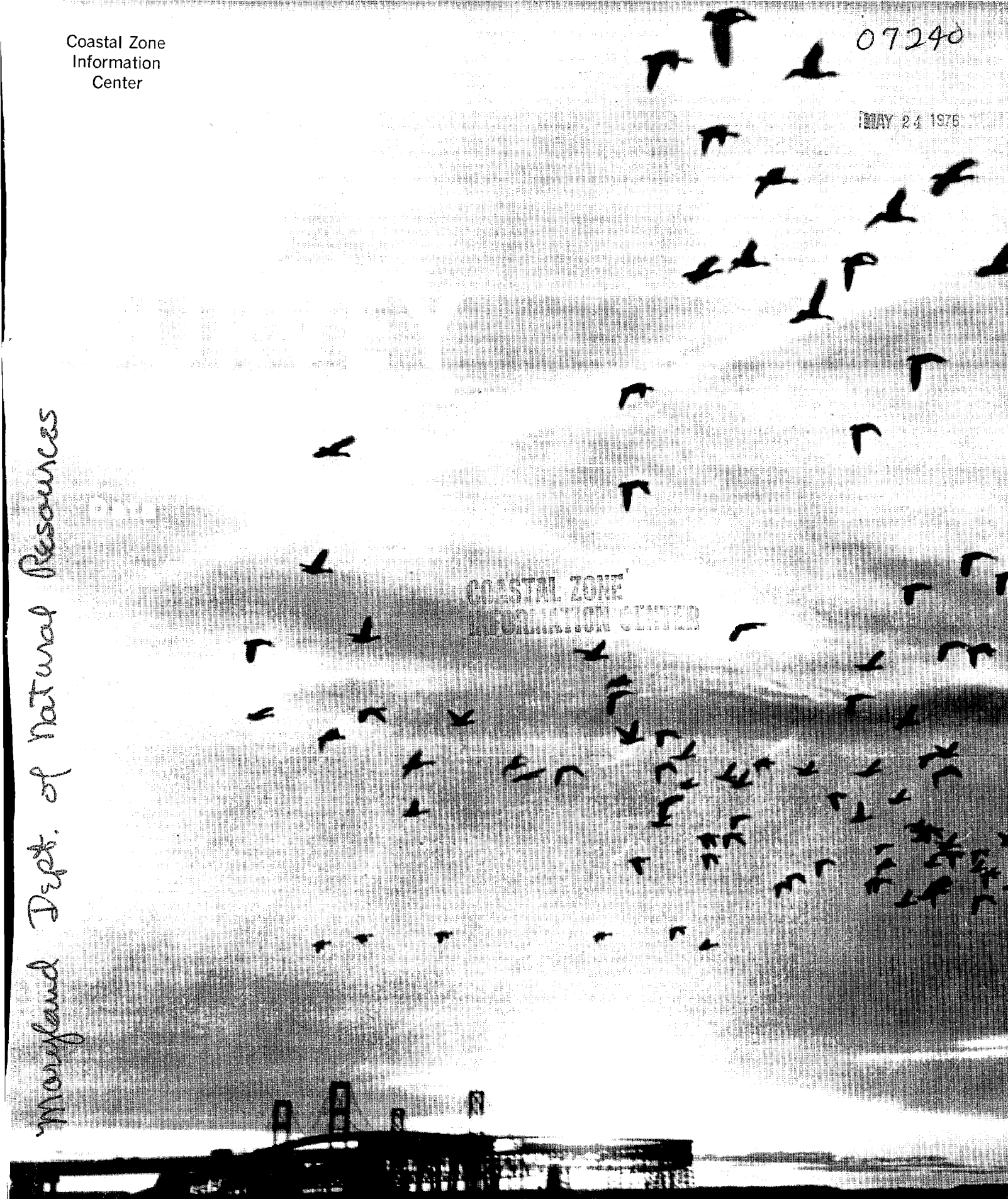

WESTINGHOUSE ELECTRIC CORPORATION Oceanic Division Annapolis, Maryland

UPPER BAY SURVEY

Final Report to the
Maryland Department of Natural Resources
Annapolis, Maryland 21401

VOLUME III

Automated Data Processing Operations
and Supplementary Data

November 30, 1975

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PREFACE

The Upper Bay Survey's prime purpose was to provide information and data to support responsible public officials in the decisions they must make and to assist them in managing Maryland's natural resources in the Chesapeake Bay. Particularly, the project was intended to relate the general sources, distribution and concentrations of pesticides, polychlorinated biphenyls, and bacteria. Some insight into the uptake and toxicity in shellfish for these pollutants was also attempted.

To expedite the fulfillment of this purpose and to provide for effective control of the data for the project's own scientists, a task was defined for the management of automated data operations. The objectives of this task included (1) planning, designing, and operating the data system; (2) coordinating and conducting the collection and assembly of data for the computers; (3) providing for storage and rapid retrieval of data for study participants; and (4) providing computer correlation analysis to the best practicable extent.

In pursuing the data operations task, the particular data management system was chosen after thorough and careful study, because it optimizes data retrieval and updating by the user at the lowest cost. It was designed and developed into the Upper Bay Survey Data Base which served the project's immediate needs well. Although it was designed with the project's prime purpose in mind — to support public officials in their decision-making and natural resource management — the data base is effective only if it is updated as new (or historic) additional data is accumulated. It then represents an empirical measure of degradation or improvement of the parameters critical to the management of the quality of the resource.

Moreover, the data base has excellent capabilities for expansion and adaptation to a wide scope of other data categories relating to natural resources. Serious consideration is being given to analogous applications to all natural resource management throughout the State of Maryland. Of the candidate systems for data management, the Upper Bay Survey Data Base is the only one reduced to operational reality. Electronic data processing for data storage (vs data management) is already developed and applied comprehensively by the State for many purposes. Thus, the State has made a significant investment in a very promising and useful instrument. Its continued development in the hands of its users is the next major challenge.

— — A. R. Barskis

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1. THE SYSTEM DESCRIPTION

A. R. Barskis
Westinghouse Electric Corporation

1.1 Introduction

This report presents the Upper Bay Survey Data Base Management System, the contents and structure of the data base, and instructions for using the system. It supplements the final report of the Upper Bay Survey which contains the specific interpretation of findings and the detailed description of the study itself.

The Upper Bay Survey is a scientific, interdisciplinary approach to determining the levels, pathways, and effects of chlorinated hydrocarbon pesticides and polychlorinated byphenyl contaminants in the Chesapeake Bay. This survey was conducted jointly by the Westinghouse Oceanic Division, Westinghouse Ocean Research Laboratory, the University of Maryland, and The Johns Hopkins University. The investigation encompassed hydrography, meteorology, marine geology, biochemistry, microbiology, and marine biology.

The interrelation of the several disciplines and the great number of data parameters to be coordinated, stored, and analyzed necessitated a centralized data base and a special multi-purpose data management system.

The Upper Bay Survey Data Base (UBSDB) provides the capability of storing, retrieving, and analyzing environmental data collected by the different disciplines. This data base utilizes as its core a multi-purpose data management system known as SYSTEM-2000®. One of the basic considerations in selecting this data management system was to facilitate the retrieval and analysis of diversified data by a number of principal investigators and scientists who have had little or no previous computer experience.

Section 1.2 discusses the purpose and intended use of the data base. Section 1.3 describes briefly the background and trends of data base management systems development and applications, and Section 1.4 explains the rationale for selecting the system. Section 1.5 describes the data base structure, content of data, and basic functions of the system. Chapter 2 gives detailed instructions for users who desire to obtain access to the system, analyze the data, and retrieve desired information. Chapter 3 draws conclusions and makes recommendations, and Chapter 4 is the data summary.

1.2 Purpose

It was recognized in the initial planning of the Upper Bay Survey that the intended use, quantity, and diversity of data from the different disciplines would require a special data processing system. It was important that this system fulfill a number of broad, as well as specific, objectives and requirements.

The basic objectives of the Upper Bay Survey Data Base were:

- To establish a permanent multi-user information data bank to which access could be had directly by scientists without assistance of programmers or computer-trained personnel.
- To have a flexible updating and expansion capability.
- To provide prompt, easy retrieval of any specific information item and to generate data summary reports and separate data files easily.

- To provide the scientists with the capabilities for direct data manipulation, comparisons, and statistical analyses. Specifically, the analyses were to include: (1) retrieval of the minimum, maximum, total and average values, (2) calculation of standard deviation, and (3) correlation analysis.
- To satisfy both the standard, predictable information needs and the unpredictable ad hoc information requests from various users.
- To be operational as soon as data became available. It should serve the principal investigators in analyzing or comparing the current findings, in determining future data collection requirements, and in helping to formulate subsequent experiments.
- To be independent of any one computer model or specific operating system. In other words, the system should not become obsolete or require major revisions as the computer technology changes.

1.3 Background

Progress in developing communications equipment and computer capabilities has been very rapid, the most significant recent change has been in the category of applications of data bases, and of data management systems. Such terms as *data base, data bank, data management,* and *information systems* have been widely used; however, in most cases the data were intimately associated with a formatted record master file, specific applications programs, and the particular computer model on which the programs were executed.

Such a fragmented approach was common to all previous information systems, having its origin in a need for information about a particular topic or activity. The usual sequence began with designing, testing, and debugging a data file program. Then data was collected, and the data master file was created. A procedure and program was designed to update this file. Other programs were designed, flowcharted, tested, debugged, and operated to retrieve information from that file. In most cases, demand, system analysis, programming, and testing were required for each new information, although the same information had only to be rearranged in a different sequence or report format. Often, the original requirements changed or even disappeared altogether by the time the information was produced.

Merely managing and maintaining a number of complex, fragmented programs is in itself a burdensome and costly task, in addition to the original cost and time of developing such a system.

Generalized data base management systems have been developed to meet the increasing and ever-changing information requirements of today. With these systems, information applications can be designed, installed, and operating in days rather than months. They are flexible when fully programmed, responding quickly to changing information requirements and providing a variety of data manipulation and formatting techniques. Unusual or unique information needs may be satisfied immediately through operations performed by non-programming personnel. The more advanced systems can function either in on-line interactive or batch environments.

Use of the computer system via a telephone-coupled small data terminal provides information immediately to a number of users regardless of their location. The batch operation feature which also can be conducted remotely via appropriate data terminals, is used primarily for voluminous data (usually from punched cards or magnetic tapes) and for generating lengthy reports.

The popularity of on-line processing has increased greatly in the last few years. Computer time sharing services proved to be practical and economical. Renting a large computer network only when needed has eliminated the tremendous overhead cost of maintaining the equivalent computer in-house. The computer leasing firms provide a number of programs for user's selection, including data management systems. By employing a time-sharing service, the user pays only for a data terminal and the computer time actually used to process his work. The system programs can be purchased for use on in-house computer systems if justified or found necessary for any reason.

1.4 Selecting The System

Westinghouse chose SYSTEM-2000® for the Upper Bay Study Data Base for the following reasons:

- SYSTEM-2000® is a general purpose data base management system developed and marketed by MRI Systems Corporation, Austin, Texas. Operating on IBM 360 and 370 series, UNIVAC 1100 series, and CDC CYBERNET 6000 and 7000 series computers, it is the most widely used data management system of this type. It is particularly effective in applications in which the number of parameters is very large, as in environmental records.
- SYSTEM-2000® provides the user with a comprehensive set of data base management capabilities. The English-like language and the easily understood diagnostic messages make the system highly suited for use by persons not trained in programming. The system includes the abilities to define and add new data bases, to modify the definitions of existing data bases, and to retrieve and update values in the data base. Values for each element and data entry set may vary in length, allowing the user to specify the key data elements in the data base and the hierarchical relationship of data elements.
- The immediate access feature provides a user-oriented language with which a non-programmer may express his requests for retrieving and updating a data base. The easily learned English-like language includes a complete set of understandable diagnostic messages and is highly suited for interactive use from remote keyboard terminals.
- SYSTEM-2000® provides a wide range of features to insure data base integrity. Complete audit activity is available, also the system provides several levels of security to safeguard against the user accidentally entering or changing the data.
- Major programming changes are not required when SYSTEM-2000® accommodates new user applications, when the size of the data base is increased, or when the application is tailored to the changing needs of the user.
- The system provides COBOL, FORTRAN, PL/1, or assembly language interfaces. The procedural language interface provides users with the capability of extracting data from one data base, retaining that data, and combining it procedurally with data from a second data base. Thus, data from several data bases may be merged and manipulated and the results may be returned to the appropriate data bases.
- SYSTEM-2000®, ranked among the best, is increasing in popularity. Many industrial and government organizations (e.g., Environmental Protection Agency and the Corps of Engineers) are beginning to use this system.
- The Control Data CYBERNET network, which is used by the Upper Bay Survey Data Base through time-sharing, provides services for thousands of customers throughout the country. It is advertised as the world's most powerful computer network and the CYBERNET service provides an extensive library of programs for the users' selection. It allows users to unload their data or system onto magnetic tapes, to store these tapes in the center at a minimal cost, and to reload their entire system in minutes upon request.

1.5 Data Base Description

1.5.1 Structure and Content

The Upper Bay Survey Data Base (UBSDB) consists of several groups of information. Figure 1 depicts the structure and the types of information available in the data base. The Project Description, Index of Codes, and Users' Instructions groups in this illustration contain information about the project and the system itself. The other groups contain the actual data of the respective disciplines.

Each distinct information component or data parameter in a group is assigned a unique number. The information component numbers are in reality the keys to the information stored in the data base. For example, Table 1-1 shows the information component numbers assigned for project description and what each information component number in this group represents.

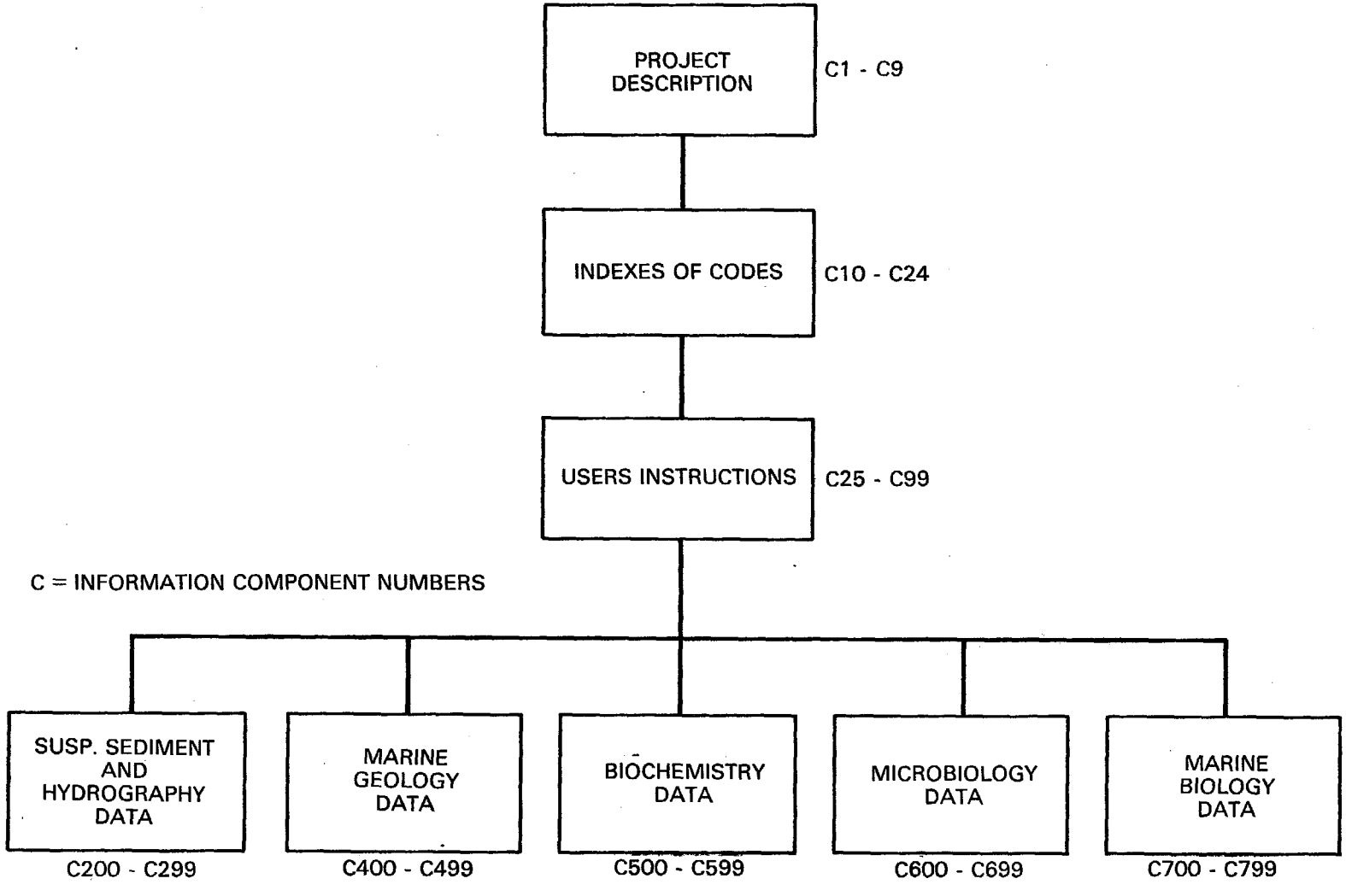

Figure 1. Upper Bay Survey Data Base Structure

Tables 1-1 through 1-8 show the component numbers and names of each group in the data base. These exhibits, which together constitute the data base definition and index of the entire UBSBD System, will be referenced extensively throughout this report. Section 2.2.1, particularly Table 2-5, gives detailed instructions for interpreting other information about each information component of a data parameter.

1.5.2 Data Samples

The quantity of data entered into the data base by each discipline varies considerably, because each discipline requires different types of samples, different instruments, and varying amounts of time and effort to analyze the samples.

Figure 1 and Tables 1-1 through 1-8 identify the specific data parameters recorded under each discipline for each sample. For example, if 1,000 samples were collected and analyzed under the Suspended Sediment/Hydrography discipline, there would be 1,000 sets of data parameters ranging from information component No. 202 through No. 228 (Table 1-4) entered into the data base. The actual number of samples entered into the data base by each discipline to date are:

DISCIPLINE	NO. OF SAMPLES
Suspended Sediments/Hydrography	1010
Marine Geology	184
Biochemistry	317
Microbiology	102
Marine Biology	95

Detailed descriptions of the types of samples, the sampling techniques, the measurement procedures, the analytical methods, and the calculations conducted to obtain specific data parameter values are presented by discipline in Volume II of this report. Most of the field samples and measurements were taken at 25 preassigned major sampling stations. Figure 2 shows the locations and identification codes and Table 1-9 presents a more detailed description of the stations.

Each sample taken at a major sampling station is identified by the following information:

- Type of Sample (if more than one type taken)
- Station Code
- Date (month, day, and year)
- Time of Day (24-hour clock)
- Depth (meters)

In the Suspended/Hydrography discipline each major sampling station is further identified in terms of:

- Station Latitude (degrees, minutes, seconds)
- Station Longitude (degrees, minutes, seconds)
- Department of Natural Resources Station Code
- Maryland Grid Code, East
- Maryland Grid Code, North

When the samples have been identified with these information parameters, data for direct retrieval and analysis can be specified in terms of one or any combination of these parameters. In other words, data can be analyzed in terms of time, geographic location, and depth (i.e., t, x, y, and z dimensions).

TABLE 1-1. INFORMATION PARAMETERS COMPRISING PROJECT DESCRIPTION

```
1*  PROJECT CODE (NAME X(5))
2*  PROJECT TITLE (NON-KEY TEXT X(30))
3*  PROJECT DESCRIPTION (NON-KEY TEXT X(250))
4*  PROJECT MANAGER (NON-KEY TEXT X(30))
```

TABLE 1-2. INDEX OF CODES USED IN THE DATA BASE

```
10*  INDEX A (RG)
  11*  VESSEL CODES (NON-KEY NAME X(80) IN 10)
12*  INDEX B (RG)
  13*  STATION CODES (NON-KEY NAME X(80) IN 12)
14*  INDEX C (RG)
  15*  DISCIPLINE CODES (NON-KEY NAME X(80) IN 14)
16*  INDEX D (RG)
  17*  UNITS OF MEASURE (NON-KEY NAME X(80) IN 16)
18*  INDEX E (RG)
  19*  WEATHER CONDITION CODES (NON-KEY NAME X(80) IN 18)
20*  INDEX F (RG)
  21*  SURFACE CONDITION CODES (NON-KEY NAME X(80) IN 20)
```

TABLE 1-3. USERS INSTRUCTIONS

```
25*  INSTRUCTION 1 (RG)
  26*  INSTRUCTIONS TO ACCESS DATA BASE (NON-KEY TEXT X(72) IN 25)
27*  INSTRUCTION 2 (RG)
  28*  INSTRUCTIONS TO USE DATA BASE (NON-KEY TEXT X(72) IN 27)
29*  INSTRUCTION 3 (RG)
  30*  MORE INSTRUCTIONS (NON-KEY TEXT X(72) IN 29)
31*  INDEX G (RG)
  32*  AUTOMATIC REPORTS (NON-KEY TEXT X(72) IN 31)
```

TABLE 1-4. SUSPENDED SEDIMENT AND HYDROGRAPHY DATA PARAMETERS

```
200*  SUS SED/HYDROGRAPHY DATA (RG)
  202*  2 STATION CODE (NAME XXX IN 200)
  203*  2 DATE OF SAMPLE (DATE IN 200)
  204*  2 TIME OF SAMPLE (INTEGER NUMBER 9999 IN 200)
  205*  2 WIND DIRECT DEGR (NON-KEY INTEGER NUMBER 999 IN 200)
  206*  2 WIND SPEED KNTS (NON-KEY INTEGER NUMBER 999 IN 200)
  207*  2 WEATHER CODE (NON-KEY INTEGER NUMBER 9 IN 200)
  208*  2 AIR TEMP DRY-B C (NON-KEY DECIMAL NUMBER 99.9 IN 200)
  209*  2 AIR TEMP WET-B C (NON-KEY DECIMAL NUMBER 99.9 IN 200)
  210*  2 DEPTH OF SAMPLE MET (DECIMAL NUMBER 99.9 IN 200)
  211*  2 WATER TEMP CENT (DECIMAL NUMBER 99.99 IN 200)
  212*  2 WATER CONDUCTV (DECIMAL NUMBER 99.999 IN 200)
  213*  2 WATER PH (DECIMAL NUMBER 999.99 IN 200)
  214*  2 WATER OXYGEN ML/L (DECIMAL NUMBER 99.99 IN 200)
  215*  2 WATER TURBIDITY (INTEGER NUMBER 999 IN 200)
  216*  2 WATER CHLORINITY R/1000 (DECIMAL NUMBER 99.99 IN 200)
  217*  2 WATER SALINITY P/1000 (DECIMAL NUMBER 99.99 IN 200)
  218*  2 H2O SIGMA T (NON-KEY DECIMAL NUMBER 99.99 IN 200)
  219*  2 TOTAL S SED MG/L (DECIMAL NUMBER 999.99 IN 200)
  220*  2 SUS SED 0/0 ORGANIC (DECIMAL NUMBER 99.9 IN 200)
  221*  2 VESSEL CODE (NON-KEY INTEGER NUMBER 99 IN 200)
  222*  2 STATION LAT (INTEGER NUMBER 9(7) IN 200)
  223*  2 STATION LONG (INTEGER NUMBER 9(7) IN 200)
  224*  2 DNR STATION CODE (NAME X(7) IN 200)
  225*  2 MD GRID E (NAME X(5) IN 200)
  226*  2 MD GRID N (NAME XXXX IN 200)
  227*  2 STATION DEPTH MET (NON-KEY DECIMAL NUMBER 999.9 IN 200)
```

TABLE 1-5. MARINE GEOLOGY DATA PARAMETERS

```
400*  MARINE GEOLOGY DATA (RG)
  402*  4 STATION CODE (NAME XXXX IN 400)
  403*  4 DATE (DATE IN 400)
  404*  4 TIME (INTEGER NUMBER 9999 IN 400)
  405*  4 MEDIAN GRAIN SIZE/PHI (DECIMAL NUMBER 99.99 IN 400)
  406*  4 MODE GRAIN SIZE/PHI (DECIMAL NUMBER 99.99 IN 400)
  407*  4 PERCENT SAND (DECIMAL NUMBER 99.99 IN 400)
  408*  4 PERCENT CLAY / SILT (DECIMAL NUMBER 99.99 IN 400)
  409*  4 INMAN MEAN (NON-KEY DECIMAL NUMBER 99.99 IN 400)
  410*  4 INMAN SIGMA (NON-KEY DECIMAL NUMBER 99.99 IN 400)
  411*  4 INMAN SKEWNESS 1 (NON-KEY DECIMAL NUMBER 999.99 IN 400)
  412*  4 INMAN SKEWNESS 2 (NON-KEY DECIMAL NUMBER 999.99 IN 400)
  413*  4 INMAN KURTOSIS (NON-KEY DECIMAL NUMBER 99.99 IN 400)
  414*  4 LATITUDE (INTEGER NUMBER 9(7) IN 400)
  415*  4 LONGITUDE (INTEGER NUMBER 9(7) IN 400)
  416*  4 SUS SED SAMPL DEPTH M (DECIMAL NUMBER 99.9 IN 400)
  417*  4 SUS SED MEAN MICR (DECIMAL NUMBER 99.999 IN 400)
  418*  4 SUS SED SIGMA MICR (NON-KEY DECIMAL NUMBER 99.999 IN 400)
  419*  4 SUS SED MODE CLASS MICR (NON-KEY INTEGER NUMBER 99 IN 400)
  420*  4 SUS SED MODE CLASS DIAM MICR (NON-KEY DECIMAL NUMBER 99.9 I
        N 400)
  421*  4 SUS SED COARSE MIDPT MICR (NON-KEY DECIMAL NUMBER 99.9999 I
        N 400)
  422*  4 SUS SED PERCT ORGNC (NON-KEY DECIMAL NUMBER 99.9 IN 400)
```

TABLE 1-6. BIOCHEMISTRY DATA PARAMETERS

```
500*  BIOCHEMISTRY DATA (RG)
  501*  5 SPECIAL CODE (NAME X(5) IN 500)
  502*  5 STATION CODE (NAME XXX IN 500)
  503*  5 DATE (DATE IN 500)
  504*  5 TIME (INTEGER NUMBER 9999 IN 500)
  505*  5 DEPTH OF SAMPLE MTRS (DECIMAL NUMBER 99.9 IN 500)
  506*  5 TYPE OF SAMPLE (NAME X(13) IN 500)
  507*  5 SAMPLE NO. (NON-KEY NAME XXX IN 500)
  508*  5 TOTAL PCB (DECIMAL NUMBER 999.9999 IN 500)
  509*  5 1242 AROCLOR (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  510*  5 1248 AROCLOR (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  511*  5 1254 AROCLOR (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  512*  5 1262 AROCLOR (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  513*  5 TECHNICAL CLORDANE (DECIMAL NUMBER 999.9999 IN 500)
  514*  5 ALPHA CHLORDANE (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  515*  5 GAMMA CHLORDANE (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  516*  5 TOTAL DDT (DECIMAL NUMBER 999.9999 IN 500)
  517*  5 DDE (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  518*  5 DDD (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  519*  5 DDT (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  520*  5 SUS SED MG/L (DECIMAL NUMBER 999.99 IN 500)
```

TABLE 1-7. MICROBIOLOGY DATA PARAMETERS

```
600*  MICROBIOLOGY DATA(RG):
 602*6 STATION CODE(    KEY NAME X(3) IN 600):
 603*6 DATE(    KEY DATE IN 600):
 604*6 TIME(    KEY INTEGER 9(4) IN 600):
 605*6 TYPE OF SAMPLE(    KEY NAME X(10) IN 600):
 606*6 WATER TEMP SURF 2M C (NON-KEY DEC 99.99 IN 600):
 607*6 WATER TEMP BOTM 2M C (NON-KEY DEC 99.99 IN 600):
 608*6 DISLV OXYG SURF P/M (NON-KEY DEC 99.99 IN 600):
 609*6 DISLV OXYG BOTM P/M (NON-KEY DEC 99.99 IN 600):
 610*6 PH SURF UNITS (NON-KEY DEC 99.99 IN 600):
 611*6 PH BOTM UNITS (NON-KEY DEC 99.99 IN 600):
 612*6 SALINITY SURF (    KEY DEC 99.99 IN 600):
 613*6 SALINITY BOTM (    KEY DEC 999.99 IN 600):
 614*6 REACTV PHOSPHRS MCG.A/L(NON-KEY DEC 9(7).9(4) IN 600):
 615*6 REACTV NITRATE MCG.A/L(NON-KEY DEC 9(6).9(4) IN 600):
 616*6 AMMONIA MCG.A/L(NON-KEY DEC 9(6).9(4) IN 600):
 617*6 ORG CARBON H2O MG.A/L(NON-KEY DEC 9(6).9(4) IN 600):
 618*6 ORG NITROGEN MCG.A/L(NON-KEY DEC 9(6).9(4) IN 600):
 619*6 HUMIC ACID P/M(NON-KEY DEC 9(7).9(4) IN 600):
 620*6 TOTAL VIABLE CNT.CFU/ML(DEC 9(10).9(2) IN 600):
 621*6 TOTAL COLIFORMS MPN/100ML(DEC 9(7).9(2) IN 600):
 622*6 FAECAL COLIFORMS MPN/100ML(DEC 9(7).9(2) IN 600:
 623*6 FAECAL STRPTCOCS MPN/100ML(DEC 9(7).9(2) IN 600):
 625*6 TOTAL COLIFMS/MILL.TVC N/M(DEC 9(7).9(2) IN 600):
 626*6 FAECAL COLFMS/MILL.TVC N/M(DEC 9(7).9(2) IN 600):
 627*6 FAECAL STPTCS/MILL.TVC N/M(DEC 9(7).9(2) IN 600):
 628*6 SECCHI DISC METERS(    KEY DECIMAL 9(2).9(2) IN 600):
 629*6 COMMENTS OF SAMPLE(NON-KEY TEXT X(25) IN 600):
```

TABLE 1-8. MARINE BIOLOGY DATA PARAMETERS

```
700*  MARINE BIOLOGY DATA (RG)
  701*  7 SAMPLE TYPE (NAME X(10) IN 700)
  702*  7 STATION CODE (NAME XXX IN 700)
  703*  7 SAMPLE NUMBER (INTEGER NUMBER 9999 IN 700)
  704*  7 SAMPLING METHOD (NON-KEY NAME XXX IN 700)
  705*  7 DATE (DATE IN 700)
  706*  7 TIME (INTEGER NUMBER 9999 IN 700)
  707*  7 SURF TEMP C (NON-KEY DECIMAL NUMBER 99.9 IN 700)
  708*  7 SURF SAL PPT (NON-KEY DECIMAL NUMBER 99.9 IN 700)
  709*  7 SURF D OXG MG L (NON-KEY DECIMAL NUMBER 99.9 IN 700)
  710*  7 SURF PH (NON-KEY DECIMAL NUMBER 99.9 IN 700)
  711*  7 DEPTH RANGE (NON-KEY TEXT X(6) IN 700)
  713*  7 BIOMS DISPL VOL ML/M3 (DECIMAL NUMBER 999.99 IN 700)
  714*  7 BIOMS WET WEIGHT MG/M3 (DECIMAL NUMBER 999.99 IN 700)
  715*  7 BIOMS DRY WEIGHT MG/M3 (DECIMAL NUMBER 99.999 IN 700)
  716*  7 BIOMS ASH WEIGHT MG/M3 (DECIMAL NUMBER 99.999 IN 700)
  717*  7 A-FREE D.W MG/M3 (NON-KEY DECIMAL NUMBER 99.999 IN 700)
  718*  7 TOTAL LIPID MG M3 (DECIMAL NUMBER 99.999 IN 700)
  719*  7 CHL A UGL (NON-KEY NAME X(5) IN 700)
  725*  TAXONOMY DATA (RG IN 700)
    726*  7 ORGANIZM TYPE (NAME X(15) IN 725)
    727*  7 GENUS SPECIES (NON-KEY NAME X(20) IN 725)
    728*  7 POPULATION NO. (NON-KEY DECIMAL NUMBER 9(5).99 IN 725)
    729*  7 RELT PERCT COMP (DECIMAL NUMBER 99.99 IN 725)
    730*  7 SEQ NUMBER (INTEGER NUMBER 99 IN 725)
```

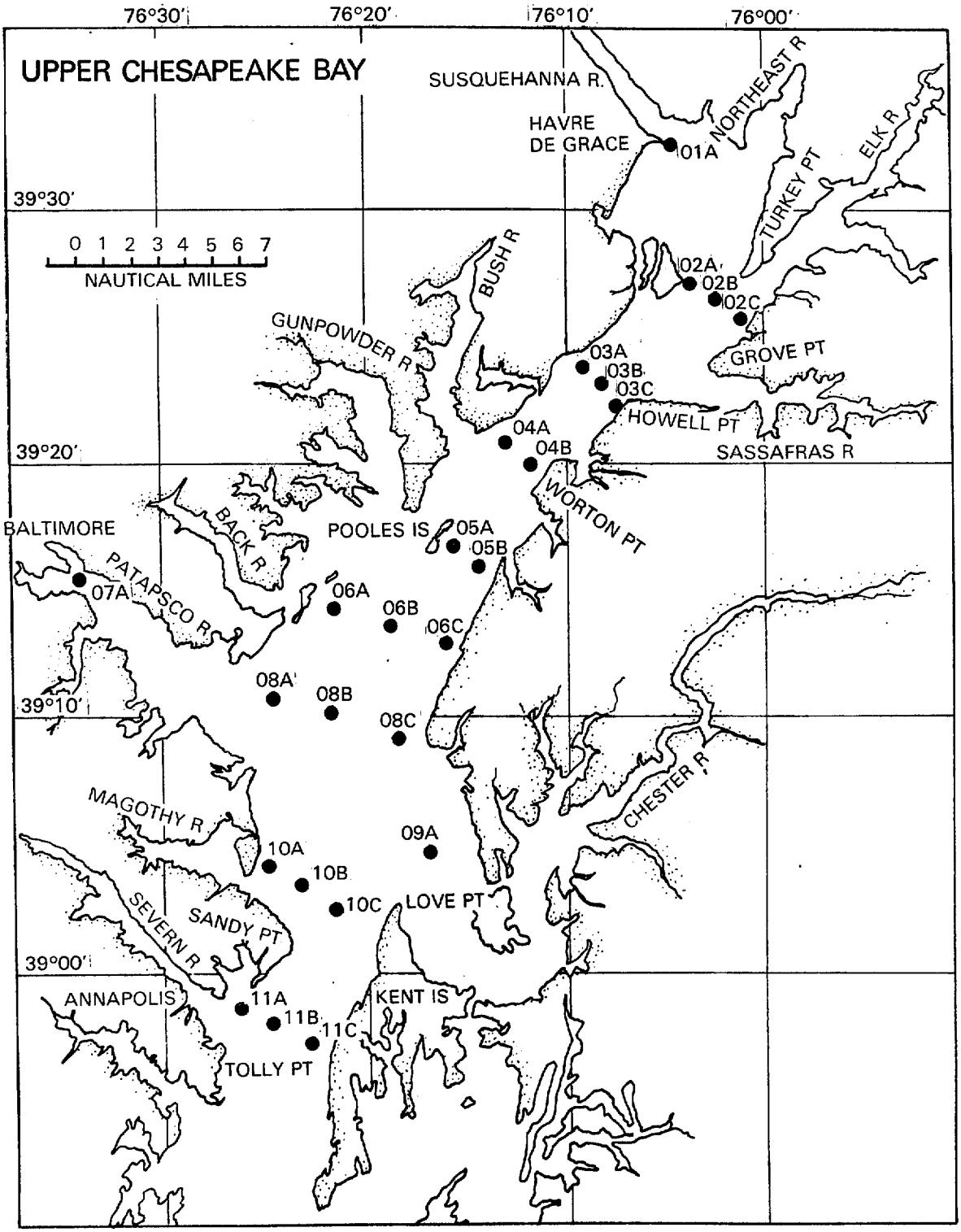

Figure 2. Locations and Codes of the Major Sampling Stations

TABLE 1-9. IDENTIFICATION OF THE MAJOR SAMPLING STATIONS

STATION CODE	LOCATION NAME	LATITUDE			LONGITUDE			DEPTH FT.
		°	′	″	°	′	″	
01A	SUSQUEHANNA RIVER	39	32	55	76	04	47	30-40
02A	TURKEY POINT WEST	39	26	32	76	03	03	12
02B	TURKEY POINT MIDDLE	39	26	35	76	02	00	15
02C	TURKEY POINT EAST	39	26	36	75	59	45	35
03A	HOWELL POINT WEST	39	24	10	76	06	07	10
03B	HOWELL POINT EAST	39	23	02	76	05	30	35
03C	HOWELL PNT (OPTIONAL)	39	22	34	76	05	13	21
04A	WORTON POINT WEST	39	21	20	76	10	58	24
04B	WORTON POINT EAST	39	20	52	76	10	22	38
04C	WORTON PNT (OPTIONAL)	39	20	18	76	09	40	20
05A	POOLE'S ISLAND WEST	39	16	37	76	15	22	44
05B	POOLE'S ISLAND EAST	39	16	14	76	14	03	27
05C	POOLE'S ISL. (OPTIONAL)	39	16	04	76	13	29	20
06A	MILLER ISLAND WEST	39	13	57	76	19	32	25
06B	MILLER ISLAND MIDDLE	39	13	22	76	17	20	11
06C	MILLER ISLAND EAST	39	12	47	76	15	07	40-45
07A	BALTIMORE HARBOR	39	15	28	76	34	23	7-11
08A	PATAPSCO RIVER WEST	39	10	49	76	25	56	16
08B	PATAPSCO RIVER MIDDLE	39	09	48	76	22	30	17
08C	PATAPSCO RIVER EAST	39	08	47	76	19	02	25-42
09A	CHESTER RIVER	39	04	11	76	16	05	26
10A	MAGOTHY RIVER WEST	39	02	31	76	23	32	13
10B	MAGOTHY RIVER MIDDLE	39	02	27	76	21	36	39
10C	MAGOTHY RIVER EAST	39	02	23	76	19	42	22
11A	KENT ISLAND WEST	38	58	10	76	24	58	18
11B	KENT ISLAND MIDDLE	38	57	56	76	23	48	46
11C	KENT ISLAND EAST	38	57	43	76	22	48	85

By design, the UBSDB System indexes and allows specification of data in terms of all information components which are not identified as *non-key* in the data base definition. In other words, all data parameters of a discipline not identified as *non-key* in the definition can be used to pin-point desired information. For example, the specific value of salinity can be used as a key where it is desired to:

Print station, date, depth, wind direction, and wind speed where the salinity was found to be greater than 20.0 ppt.

Which would be encoded as follows:

PRINT C202, C203, C210, C205, C206 WHERE C217 GT 20.0:

Also, any number of parameters can be used to specify the desired data; for example it is desired to:

Print the average wind direction and the average wind speed at Station 01A during the month of December 1973 when the water temperature at the surface (0.0 depth) was less than 6.0 degress centigrade.

Which would be encoded as follows:

PRINT AVG C205, AVG C206 WHERE C202 EQ 01A AND C203 SPANS 12/01/73* 12/31/73 AND C210 EQ 0.0 AND C211 EQ 6.0:

The examples above demonstrate the flexibility of the UBSDB System in retrieving information.

Chapter 2 explains in detail how the instructions should be given to the System and how a *non-key* data parameter by association can be used also to specify retrievals. Specifically, Section 2.3 presents the instructions to the system and, in many cases, the actual answers by the system of the following information:

- Types and number of samples taken by discipline
- Dates of samples taken by discipline
- Number of samples taken at each station by discipline
- Total number of data values recorded for any given parameter
- Minimum, maximum, average, and standard deviation values of any given parameter

The data collection forms were developed and used individually by each discipline during the initial recording of the samples and measurements. Once the samples were analyzed and the data parameters investigated and quantified, data was transcribed onto special forms for key-punching and subsequent entry into the data base. An example of these forms used by Suspended Sediment/ Hydrography discipline is shown in Figure 3.

The actual data entry into the data base varies significantly from the conventional master file concept method. For entering the data of one sample (a new logical entry), the data is simply laid out in a series of value strings, associating with each item of data the component number to which that item of data belongs. For example:

202*01A*203*12/13/74*204*1427*205*140*206*14*
207*5*210*0.0*211*5.09*216*0.01 ... etc.

The asterisks always must be used to separate the component number from its data. The component number, asterisks, and data can be key-punched directly on cards as shown in the example above. Alternatively, a utility program can be written to read the punched cards as shown in Figure 3 and assign the component numbers and asterisks automatically prior to loading the data into the data base.

The initial set of data need not be complete, nor need it be completely accurate or standardized. All extra spaces are automatically suppressed by the system except for components defined as *text*. Update requests can modify or insert at some later time any piece of data individually or whole sets of data across the data base. Date entry and update procedures are described in Section 2.4.

SUSPENDED SEDIMENT & HYDROGRAPHY DATA — PAGE 1 or 2

	201	202	203	204	205	206	207	208	209	210		211		212	213	214	215
SPECIAL SAMPLE CODE (1–4)	SPECIAL KEY SAMPLE CODE (5–9)	STATION CODE (10–12)	DATE OF SAMPLE M M / D D / Y Y (13–20)	TIME OF SAMPLE (21–24)	WIND DIRECTION 360° (25–27)	WIND SPEED KTS. (28–30)	WEATHER CODE (31)	AIR TEMP. DRY BULB (CENTGR.) (32–35)	AIR TEMP. WET BULB (CENTGR.) (36–39)	DEPTH OF SAMPLE (METERS) (40–43)	UNADJUSTED WATER TEMP (CENTGR.) (44–48)	ADJUSTED WATER TEMP. (CENTGR.) (49–53)	UNADJUSTED WATER CONDUCTIVITY (54–59)	ADJUSTED WATER CONDUCTIVITY (60–65)	WATER PH (66–71)	WATER OXYGEN (ML/L) (72–77)	WATER TURBIDITY (78–80)
A 1		01A	12/13/74	1427	140	145				0.0	—	5.09					
A 2		01A	12/13/74	1430	140	145				2.0		5.06					
A 3		01A	12/13/74	1433	140	145				4.0		5.06					

SUSPENDED SEDIMENT & HYDROGRAPHY DATA — PAGE 2 of 2

	216	217	218	219	220	221	222	223	224	225	226	227	228
SPECIAL SAMPLE CODE (1–4)	WATER CHLORINITY (°/oo) (6–9)	WATER SALINITY (°/oo) (10–14)	WATER SIGMA T (15–19)	CONCEN. TOTAL SUS. SEDIMENTS MG/L (20–25)	SUSPENDED SEDIMENTS % ORGANIC (26–29)	VESSEL CODE (30–31)	STATION LATITUDE ° ' " (32–38)	STATION LONGITUDE ° ' " (39–45)	DNR STATION CODE (46–52)	MD. GRID COORDINATE EAST (53–57)	MD. GRID COORDINATE NORTH (58–61)	STATION DEPTH (METERS) (62–66)	SAMPLE COMMENT (67–80)
B 1	0.01	0.05	0.06	41.33	15.2	2	39325 5	760447	XKH2952	10595	6260	12.0	
B 2	0.01	0.05	0.07	42.57		2	39325 5	760447	XKH2952	10595	6260	12.0	
B 3	0.01	0.05	0.06	40.55		2	39325 5	760447	XKH2952	10595	6260	12.0	

Figure 3. UBSDB Data Recording Forms

1.5.3 Characteristics and Capabilities

The Upper Bay Survey Data Base can be maintained at any computer facility or time-sharing network which supports SYSTEM-2000® data management system. Currently, UBSDB is maintained at the CDC CYBERNET Time-Sharing Network located in Rockville, Maryland.

Access to the data base can be attained from any geographic location using telephone lines and appropriate data terminals for remote batch or interactive modes of operation. The remote batch mode is intended for processing large volumes of data, and the interactive mode for retrieving specific information items or brief reports immediately. Each mode of operation can be intermixed. This means that a request can be sent in one mode and the reply received in the other.

If the data base is frequently used, it can be maintained on a direct access device immediately accessible by the computer system and the user. Or if the data base is infrequently used, it can be stored on a magnetic tape for loading into the system upon request. It takes approximately three to eight minutes after the request is given via a data terminal to load the data base from magnetic tape into the computer system. After use, the data base can be released and reloaded (copied) from the same magnetic tape again when needed.

The physical storage and organization of data in SYSTEM-2000® varies considerably from the conventional master file-oriented data bases. Any unique value of a given parameter (information component) is physically sorted (recorded) in the system only once. The system itself appropriately links and associates the data values with the parameters automatically.

Up to 4,500 different information components (data parameters) can be defined and stored in one data base. The maximum data base size in terms of number of characters is not defined. However, there are SYSTEM-2000® data bases operating in access of 80 million characters. The SYSTEM-2000® provides to the user a greater flexibility in specifying data parameters, changing their descriptions or data, adding new parameters, or restructuring the entire data base. The system also has provisions for special security codes which safeguard specified parameters against access or revision of data by unauthorized users.

Specific data retrieval and analysis capabilities are described in Chapter 2.

1.5.4 Requirements and Terminals

The basic requirements for retrieving information directly from the Upper Bay Survey Data Base are log-on information, a telephone, and a data terminal. The data base itself contains instructions and explanations for its use.

The log-on information which is available from Westinghouse Oceanic Division consists of a telephone number, a seven-digit user number, a password of as many as seven digits, and a three-digit charge number. Detailed instructions on the use of this information are given in Section 2.1. Any standard office model telephone can be used with a number of data terminals as listed below.

The two different modes of operation require different types of terminals. The on-line batch mode terminals usually have a punched card or magnetic tape reading capability and a large, fast line-printer. The interactive mode terminals are smaller and have 10-30 characters per second transmission rates over voice-grade telecommunications lines. Some of the batch mode terminals are:

- Control Data: CDC 200 UT, CDC 730, and CDC 8231
- IBM 1130 Computer Systems
- Honeywell 200 Series Computer Systems
- Univac 9200 Computer Systems
- COPE Series Terminals
- Data 100 Terminals
- Mohawk Terminals
- Tektronix 4010, 4012, and 4013 Terminals

Access to the UBSDB in the interactive mode could be accomplished with almost any terminal having a 10 or 30-character per second transmission capability. Some of the more widely used terminals are:

- Texas Instruments 700 Series
- ASR Teletypes (almost all models)
- Hewlett Packard 9866A

2. USER INSTRUCTIONS

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Only the basic operating and retrieval instructions presented from the data base user's point of view are discussed below, as all the possible capabilities and all the operating instructions for the chosen data management system could not be described in this document. More detailed descriptions and instructions for special handling of data within the data base may be found in SYSTEM-2000® Users' Reference Manual, Cybernet Service, Control Data Corporation. This manual consists of approximately 500 pages and presents a more detailed description of the multi-purpose data management system's capabilities.

The users' instructions that follow are for the interactive mode of operation. If access to the UBSDB is desired other than by means of 10-CPS* or 30-CPS terminals, Westinghouse Oceanic Division should be contacted.

2.1 Instructions for Data Base Access and Exit

For attaining access to the Upper Bay Survey Data Base via interactive mode terminals, five unique information items must be employed:

1. Telephone Number (NNN-NNN-NNNN)
2. Family Code (WW)
3. User Number (XXXXXXX)
4. Password (YYYYYYY)
5. Charge Number (ZZZ)

In most instances, two telephone numbers will be employed, one for 10-CPS and the other for 30-CPS transmission rate terminals.

Once these information items are obtained, the steps for access to the data base are:

Step 1: Set the terminal to half duplex on-line operation and dial the appropriate telephone number. Be sure the CPS setting on the terminal corresponds to the telephone number being dialed.

Step 2: When a high pitch tone is heard, place the telephone hand set in the terminal coupler and wait until the system prints FAMILY:. After FAMILY, type the WW code and press the carriage return key.

*Characters per second

Step 3: After USER NUMBER, type the code *XXXXXXX* and press the carriage return key. Then wait for the system to obliterate nine spaces.

Step 4: Type the assigned password *YYYYYYY* in the obliterated spaces, and press the carriage return (CR) key. To send a message to the system always press the CR key.

Step 5: Wait for the system to print RECOVER/CHARGE:. Then type *CHARGE, XXXXXXX-,*ZZZ* code, and press the CR key. Wait for the system to print READY.

Step 6: Then type *-S2KV230,* press the CR key, and wait for the system to print a question mark ?.

Step 7: After the question mark is received, type *USER, LETMESSEE:SHARED DBN IS UBSDB*: and press the CR key. (Note that the space after SHARED, DBN, and IS must not be omitted.) After receipt of another question mark, the data base is ready for use.

If after Step 7, the system prints DATA BASE DOES NOT EXIST, call to have UBSDB loaded into the system from a magnetic tape, a procedure that takes approximately three to five minutes.

An operator who does not know how to use this data base should type *PRINT/STUB SUPPRESS/C28:* CR. The system will provide instructions automatically. (Also see Section 2.2.)

Step 8: To sign out after using the data base, type *EXIT*: CR, and wait for the system to print READY.

Step 9: Then type *BYE* CR, wait for the system to print log-off information, and hang up the receiver.

An example of the procedural steps using a 10-CPS Teletype Model 33 terminal is given in Table 2-1.

The procedural steps above are the same for all interactive mode terminals. However, when using a 30-CPS terminal, *ROUT,10* CR instructions after Step 5 is recommended. This command instructs the terminal to print lines uniformly.

In most instances, a short-cut method for access to the UBSDB will be available also. This method will allow the user to replace Steps 6 and 7 with one instruction by typing *-UBS* CR. Table 2-2 illustrates the short-cut method for access to the UBSDB using a 30-CPS transmission rate terminal.

2.2 Instructions for Using the Data Base

This section presents the basic instructions and requirements for determining the content, structure, and use of the data base. The data base itself contains much of this information; the user need only ask for it.

2.2.1 Data Base Definition

The most important requirement for using UBSDB is the data base definition or listing which is an index and a guide to all information contained in the data base. To obtain this definition the user types *DESCRIBE*: CR after Step 7, as outlined in Section 2.1.

Once it has been obtained, the lengthy 150-line UBSDB definition should be saved for future use. However, the UBSDB is very flexible; new disciplines or data parameters can be added, changed, expanded, or deleted. Every such modification to the data base is automatically reflected in the definition.

TABLE 2-1. AN EXAMPLE OF THE PROCEDURE STEPS TO ACCESS UBSDB USING A 1-CPS (TELETYPE MODEL 33) TERMINAL

```
 75/04/16. 13.57.50.
EASTERN CYBERNET CENTER SN1079 KRONOS    2.1.6.132.C-C
FAMILY: KB
USER NUMBER:  S63878P
PASSWORD
[redacted]
TERMINAL:       50.TTY
RECOVER/ CHARGE:CHARGE.S63878P.*LAA*
READY.

 09.58.29. WARNING

COBOL3 USERS PLS TYPE INFO 4/16/75

-S2KV230
 75/04/16. 13.59.52."BEGIN SYSTEM 2000" RELEASE    2.30U
 ---
? USER.LETMESEE:DBN IS UBSDB:
 ASSIGNED UBSDB                    2        201      75/03/17. 13.42.30.
 ---
?

PRINT/STUB SUPPRESS/C28:

                INSTRUCTIONS TO USE DATA BASE

    1)    TO USE UBSDB IT IS RECOMMENDED TO HAVE A DATA BASE LISTING.
          IF YOU DO NOT HAVE ONE. TYPE  ACCESS:  AND PRESS CARRIAGE
          RETURN (CR). WA[illegible]  THEN TYPE  DESCRIBE:


  EXIT:
            END SYSTEM 2000
READY.
BYE.

S63878P  LOG OFF.   14.09.33.
S63878P  SS         0.058 SEC.
TIO      4005
```

TABLE 2-2. A SHORT-CUT METHOD TO ACCESS UBSDB USING 10-CPS AND 30-CPS TERMINALS

```
 75/00/16. 07.43.19.
EASTERN CYBERNET CENTER SN1079 KRONOS   2.1.6.132.0--0
FAMILY: KB
USER NUMBER:  S63878P
PASSWORD
[redacted]
TERMINAL:       7,TTY
RECOVER/ CHARGE:CHARGE,S63878P,*LAB*
READY.
ROUT,10
READY.
-UBS
 75/04/16. 07.44.19.*BEGIN SYSTEM 2000* RELEASE   2.30U
 ------
 ------
 ASSIGNED UBSDB                    2        201      75/03/17. 13.42.30.
 ------
 ------
?




 ------
? EXIT:
          END SYSTEM 2000
READY.
BYE.

S63878P  LOG OFF.  07.45.51.
S63878P  SS        0.061 SEC.
TIO      0694
```

To insure that the previously obtained data base definition is current, one need only compare the DEFINITION NUMBER. Table 2-3 shows a sample of a previously obtained data base definition and Table 2-4 shows the definition number to be compared after entering the data base. Normally, the definition numbers are not changed frequently. The DATA BASE CYCLE shown in Table 2-3 indicates the number of times that data has been added or changed in the data base.

A complete data base definition is given in Section 1.5.1 of Chapter 1. Table 2-5 identifies the different information items given in the data base definition.

2.2.2 Important Considerations

When using the UBSDB System, there are several important points one must observe. Each point noted below is accompanied by an example which retrieves actual information from the data base. When one uses the system for the first time, it is recommended that he try the examples given in this section for familiarization purposes.

The user need not be apprehensive of making mistakes. The system will indicate all errors automatically and in most cases will indicate the type of error made. The actual system cost for trying these examples is minimal.

After obtaining access to the data base as described in Section 2.1 and after obtaining the data base definition as explained in Section 2.2.1, the user is ready to retrieve information.

- For data retrieval, the system must be in the Access Mode; to insure this, type:

  ACCESS: (CR)

  if a question mark is received, proceed with the examples. If not and if the terminal connect light is still ON, *do not* disconnect the telephone. Try to log-out and then log-in again as shown in Section 2.1.
- The user must always wait for the system to respond before he enters another command. Further, the system always indicates when it is ready for another instruction by printing a question mark, a slash, or the word Ready. When using SYSTEM-2000® commands, the user must always wait for the question mark before entering another command.
- Almost all data management system commands or instructions must end with a colon. An instruction is executed only when the colon is detected by the computer, but it is transmitted only when the carriage return key (CR) is depressed. For example:

  PRINT PROJECT DESCRIPTION: (CR)
- If an error in the instruction is detected by the user before it is sent, the correction can be made by deleting the wrong characters or the entire line.

  To delete characters use the arrow (←) key.

  To delete the entire line use the escape (ESC) key.

  When the user employs the escape key he need not wait for the question mark.
- The two most commonly used commands are PRINT and LIST. The PRINT command requires specification of what is to be printed and the LIST command requires specification of what and how the information is to be printed. The LIST command, explained in Section 2.5, is used for generation of reports or extraction of a separate data file, thus:

  PRINT COUNT C200: (CR)

  The C200 is the information component number listed in the data base definition (also see Table 2.5). The C stands for Component and must always precede all component numbers. The answer reports the number of samples or data sets in the data base's 200 series or discipline category. It is highly recommended that the user determine the amount of data available before commanding that it be printed in its entirety.

TABLE 2-3. PREVIOUSLY OBTAINED DATA BASE DEFINITION NUMBER

```
? DESCRIBE:
  SYSTEM RELEASE NUMBER        2.30S
  DATA BASE NAME IS UBSDB
  DEFINITION NUMBER        2
  DATA BASE CYCLE        201
     1*  PROJECT CODE (NAME X(5))
     2*  PROJECT TITLE (NON-KEY TEXT X(30))
     3*  PROJECT DESCRIPTION (NON-KEY TEXT X(250))
     4*  PROJECT MANAGER (NON-KEY TEXT X(30))
    10*  INDEX A (RG)
      11*  VESSEL CODES (NON-KEY NAME X(80) IN 10)
    12*  INDEX B (RG)
      13*  STATION CO[illegible] X(80) IN 12)
```

TABLE 2-4. DATA BASE DEFINITION NUMBER TO BE COMPARED AFTER ACCESSING UBSDB

```
 75/04/16. 14.10.07.
EASTERN CYBERNET CENTER SN1070 KRONOS    2.1.6.132.0-0
FAMILY: KB
USER NUMBER:   S63873P
PASSWORD
[redacted]
TERMINAL:       50.TTY
RECOVER/ CHARGE:CHARGE.S63873P."LAA"
READY.

 09.58.29. WARNING

COBOL3 USERS PLS TYPE INFO 4/16/75

-UBS
 75/04/16. 14.11.39."BEGIN SYSTEM 2000" RELEASE    2.30U
 ...
 ...
 ASSIGNED UBSDB                    2        201      75/03/17.
 ...
 ...
```

TABLE 2-5. INFORMATION ITEMS IN THE DATA BASE DEFINITION

Information Component Numbers	Information Component Names	Repeating Group or Separate Set of Data	Component Number of the Repeating Group to which the Components belong

```
500*  BIOCHEMISTRY DATA (RG)
  501*  5 SPECIAL CODE (NAME X(5) IN 500)
  502*  5 STATION CODE (NAME XXX IN 500)
  503*  5 DATE (DATE IN 500)
  504*  5 TIME (INTEGER NUMBER 9999 IN 500)
  505*  5 DEPTH OF SAMPLE MTRS (DECIMAL NUMBER 99.9 IN 500)
  506*  5 TYPE OF SAMPLE (NAME X(13) IN 500)
  507*  5 SAMPLE NO. (NON-KEY NAME XXX IN 500)
  508*  5 TOTAL PCB (DECIMAL NUMBER 999.9999 IN 500)
  509*  5 1242 AROCLOR (NON-KEY DECIMAL NUMBER 999.9999 IN 500)
  510*  5 1248 [illegible]  NUMBER 999.9999 IN 50[illegible]
  511*  [illegible]
```

(———————————)

TYPE AND LENGTH OF DATA FIELD OF EACH COMPONENT:		
Name XXX	= Alphanumeric	3 characters
Date	= MM/DD/YY	10 characters
Integer Number 9999	= Numeric Only	4 characters
Decimal Number 99.9	= Decimal Numbers	4 characters
Name X(10)	= Alphanumeric	10 characters
Non-Key Name XXX	= Alphanumeric	3 characters

- The component number can be interchanged with the component name. When using component names, the C is not required, but the component name must be used exactly as it appears in the data base definition. For example:

  PRINT COUNT BIOCHEMISTRY DATA: (CR)

- Any information item can be obtained using the print command, thus:

  PRINT AVG C211: (CR)

  This particular command retrieves the overall average of water temperatures recorded by the SUS SED/HYDROGRAPHY discipline. Other examples are:

  PRINT SIGMA C211: (CR)
  (SIGMA is the standard deviation)
  PRINT MIN C211: (CR)
  PRINT MAX C211: (CR)

- To halt the terminal from printing a lengthy sequence of data, the user should press I. This command will Interrupt the printing and automatically exit the user from the data management system. To get back into the data base, the user must repeat Steps 6 and 7 as shown in Section 2.1. In most cases, Steps 6 and 7 can be bypassed by typing -UBS (CR). When the -UBS command is used, a wait of one to two minutes may be incurred.
- If only the average water temperature at a specific station is desired, the station must be identified as in this example:

  PRINT AVG C211 WHERE C202 EQ 01A: (CR)

  The above command reads: "Print average water temperature where station code equals 01A".
- Do not exceed 72 characters of instructions on a line. To begin the next line, press the carriage return key (CR), wait for a question mark, and then continue the instruction.
- If the average water temperature during December 1973 at a given station is desired, type:

  PRINT AVG C211 WH C202 EQ 01A AND C203
  GE 12/01/73
  AND C203 LE 01/01/74: (CR)

  (Note that GE means greater than or equal to and LE means less than or equal to)
- If the average surface temperature at Station 01A for the month of December 1973 is desired, type:

  PRINT AVG C211 WH C202 EQ 01A AND C203 GE
  12/01/73 AND C203 LE 01/01/74 AND C210 EQ
  0.0: (CR)

  (Note that C210 is Depth of Sample, 0.0 equals zero depth or the water's surface.)

  By adding the qualifiers, the user can retrieve any specific information item from a given discipline.
- If, after a request ending with a colon, the system prints only a question mark instead of the expected answer, it is indicating that the requested data is not contained in the data base. For example, a question mark would be the answer to this:

  PRINT COUNT C219 WH EQ 12/15/42: (CR)

- Answers to all PRINT commands are identified by the component numbers requested in the command. These answer identifiers can be suppressed or they can be substituted with their component names. Once the desired identification format is specified, the system will apply the format to all answers until it is changed. For example:

  PRINT/NAME/C1, C2: (CR)
  PRINT/STUB SUPPRESS/C1, C2: (CR)
  PRINT/NUMBER/C1, C2: (CR)

2.3 Retrieving Specific Data Items

Before the user begins to retrieve information from the data base, it is recommended that the quantity of the specific data groups or individual parameter be known. The PRINT COUNT command should be used to determine the quantity of data. For example, to find out the total number of samples (or data sets) entered in the biochemistry discipline:

```
? PRINT COUNT C500:
 CNT 500* 317
 ---
?
```

By substituting C500 with any other component number shown in the data base definition, the quantity of data in each discipline or individual parameter can be determined. The above command reads; Print the count of biochemistry data (sets). Note that if COUNT is omitted, the system would continue to print all data parameter values of each set in sequence. To stop the terminal from printing, press I and repeat Steps 6 and 7 as shown in Section 2.1.

To retrieve data identified more specifically in terms of a particular geographic location, time, depth, type of sample, or some other delimiter, specific values of the parameters which are to be used as delimiters must be known.

To determine specific values of a given data parameter, the user can employ the TALLY command, which can be used only with the KEY information components. For example, to find out the number and types of samples entered into UBSDB under the biochemistry discipline, type TALLY C506: (CR). Three examples follow:

```
? TALLY C506:
 ELEMENT=      5 TYPE OF SAMPLE
FREQUENCY    VALUE
        24       BENTH WET PPM
        43       BOTM SED PPM
         5       GRWAT H20 PPT
        59       PLANK H20 PPT
         3       PLANK H20 PPT
        62       PLANK WET PPM
        56       S SED DRY PPM
        58       S SED H20 PPT
         3       SSEW H20 PPB
         4       WSEW H20 PPB
       10  UNIQUE VALUES
      317  OCCURRENCES
?
```

```
? TALLY C605:
 ELEMENT=      6 TYPE OF SAMPLE
FREQUENCY    VALUE
        43       BOTM WATER
        38       SED
         3       SURF WATER
        18       SUS SED
         4  UNIQUE VALUES
       102  OCCURRENCES
?
```

```
? TALLY C701:
 ELEMENT=      7 SAMPLE TYPE
FREQUENCY    VALUE
        95       ZOOPLANKTN
         1  UNIQUE VALUES
        95  OCCURRENCES
?
```

To find out the station codes and the number of samples taken at each station, proceed as in these examples:

```
? TALLY C202:
 ELEMENT=      2 STATION CODE
FREQUENCY    VALUE
        58       01A
        16       02A
        18       02B
        42       02C
        18       03A
        44       03B
        27       03C
        30       04A
        44       04B
        26       04C
        64

        28  UNIQUE VALUES
      1010  OCCURRENCES
?
```

```
? TALLY C502:
 ELEMENT=      5 STATION CODE
FREQUENCY    VALUE
         1       MP
         5       OFS
         6       OMP
         1       001
         1       002
         1       003
         1       004
         1       [illegible]
                 10A
        39       10B
         6       10C
        28       11A
        23       11C
         6       11D
        62  UNIQUE VALUES
       317  OCCURRENCES
?
```

```
? TALLY C602:
 ELEMENT=      6 STATION CODE
FREQUENCY    VALUE
         5       00C
        24       01A
        21       05A
        21       10B
        31       11A
         5  UNIQUE VALUES
       102  OCCURRENCES
?
```

```
? TALLY C702:
 ELEMENT=      7 STATION CODE
FREQUENCY    VALUE
         1       001
         1       002
         1       003
         1       005
         8       01A
         8       09B
         1       09C
        10       10B
        10       11A
         9       11C
         5       11D
        20  UNIQUE VALUES
        95  OCCURRENCES
?
```

or to determine the dates and the numbers of samples taken, follow these examples:

```
? TALLY C403:
**********************
 ELEMENT-      4 DATE
**********************
FREQUENCY    VALUE
----------------------
      15      10/10/1973
      10      10/12/1973
       9      10/15/1973
      14      10/16/1973
       3      10/17/1973
----------------------
       5  UNIQUE VALUES
----------------------
      51  OCCURRENCES
----------------------
---
?
```

```
? TALLY C503:
**********************
 ELEMENT-      5 DATE
**********************
FREQUENCY    VALUE
----------------------
      12      10/10/1973
       5      10/12/1973
       4      10/15/1973
      15      10/16/1973
      17      12/12/1973
      21      12/13/1973
       6      12/14/1973
       6      01/17/1974
       2      01/22/1974
      20      [illegible]/1974
       [illegible]  08/02/19[illegible]
       1      08/26/1974
       1      09/04/1974
       2      09/17/1974
       4      09/18/1974
       6      09/19/1974
       5      09/20/1974
       1      10/16/1974
       2      11/05/1974
----------------------
      37  UNIQUE VALUES
----------------------
     317  OCCURRENCES
----------------------
---
?
```

```
? TALLY C603:
**********************
 ELEMENT-      6 DATE
**********************
FREQUENCY    VALUE
----------------------
        5       12/12/1973
        5       12/13/1973
        5       01/23/1974
        5       01/24/1974
        7       03/20/1974
        6       03/21/1974
        5       05/02/1974
        5       05/03/1974
        5       06/12/1974
        6       06/13/1974
        7       07/09/1974
        3       07/10/1974
        7       09/19/1974
        4       09/20/1974
        7       10/24/1974
        1       10/25/1974
        7       11/27/1974
        1       11/28/1974
        7       12/17/1974
        4       12/18/1974
----------------------
      20  UNIQUE VALUES
----------------------
     102  OCCURRENCES
----------------------
***
?
```

```
? TALLY C705:
**********************
 ELEMENT-      7 DATE
**********************
FREQUENCY    VALUE
----------------------
        2       12/12/1973
        2       12/13/1973
        3       12/14/1973
        3       01/17/1974
        4       01/23/1974
        6       01/24/1974
        2       03/19/1974
        5       03/20/1974
        4       03/21/1974
        2       05/01/1974
        5       05/02/1974
        4       05/03/1974
        5       07/09/1974
        2       07/10/1974
        2       09/18/1974
        5       09/19/1974
        2       09/20/1974
        6       10/24/1974
        5       11/25/1974
        5       11/27/1974
        5       12/17/1974
        2       12/18/1974
----------------------
      26  UNIQUE VALUES
----------------------
      95  OCCURRENCES
----------------------
***
?
```

Once the specific values of a KEY parameter have been obtained by TALLY command, specifications of a more precise information can be made in terms of these values by using the WHERE clause. All delineating conditions must follow to the right of the WHERE clause, which may contain as many as 58 operators where an operator includes:

AND	(See Example 2.)
OR	(See Example 4.)
NOT	(See Example 5.)
( )	(See Example 5.)

EQ, meaning equal. (See Example 1.)
NE, meaning not equal. (See Example 6.)
LT, meaning less than.
LE, meaning less than or equal to.
GT, meaning greater than.
GE, meaning greater than or equal to.
SPANS, meaning range of specifications. (See Example 2.)
EXISTS, meaning data values entered. (See Example 7.)
FAIL, meaning data values missing. (See Example 8.)
SAME, meaning same qualifiers as in previous command. (See Example 9.)

The following examples illustrate the use of the operators listed:

Example 1:

```
 PRINT COUNT C506 WHERE C502 EQ 01A:
CNT 506* 28
---
?
```

The answer above indicates the number of samples taken at Station 01A for the biochemistry discipline.

Example 2:

```
PRINT C506,C503 WHERE C502 EQ 01A AND C503 SPANS 01/01/74*03/31/74:
 506* PLANK WET PPM
 503* 01/24/1974
 506* PLANK H2O PPT
 503* 01/24/1974
 506* S SED H2O PPT
 503* 03/21/1974
 506* S SED DRY PPM
 503* 03/21/1974
 506* S SED H2O PPT
 503* 03/21/1974
 506* S SED DRY PPM
 503* 03/21/1974
 506* PLANK WET PPM
 503* 03/21/1974
 506* PLANK H2O PPT
 503* 03/21/1974
 506* S SED DRY PPM
 503* 01/24/1974
 506* S SED H2O PPT
 503* 01/24/1974
---
?
```

The answer above indicates the dates and types of samples taken at Station 01A during January through March 1974.

The Boolean operators AND, OR, and NOT are used to indicate the relationship between the conditions found in the WHERE clause. When AND is used, the data set values eligible for output *must* satisfy both conditions. When OR is used, the WHERE clause is satisfied by those data sets for which either condition is satisfied. Where NOT is used, the WHERE clause is satisfied by all data sets which do *not* satisfy a condition. The shaded areas (i.e., the area qualifying) in each of the diagrams in Figure 4 illustrate the logic of the three operators:

Example 3:

In order to determine station and date when chlorinity was greater than 8.5 and salinity was greater than 16.5 ppt, follow this example:

```
PRINT C202,C203 WHERE C216 GT 8.5 AND C217 GT 16.5;
 202* 11C
 203* 01/23/1974
 202* 11C
 203* 01/23/1974
 202* 11C
 203* 02/11/1974
 202* 11C
 203* 02/11/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 05A
 203* 07/31/1974
 202* 11C
 203* 07/31/1974
 202* 11C
 203* 07/31/1974
 202* 11C
 203* 07/31/1974
---
?
```

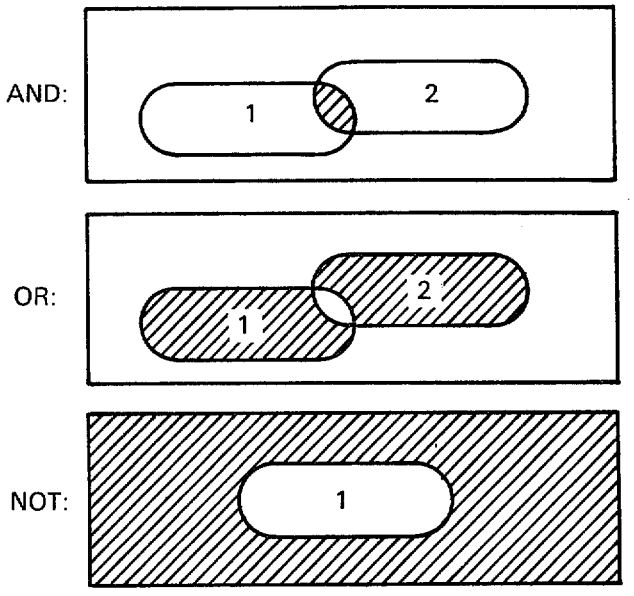

Figure 4. The Logic of Three Operators

Example: 4:

In order to determine the stations and dates when either chlorinity was greater than 9.55 or salinity was greater than 17.5 PPM, follow this example:

```
PRINT C203,C202 WHERE C216 GT 9.55 OR C217 GT 17.5:
 203* 02/11/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 06/12/1974
 202* 11C
 203* 07/31/1974
 202* 05A
 203* 07/31/1974
 202* 11C
 203* 07/31/1974
 202* 11C
---
?
```

Example 5:

To determine the station and date where either chlorinity was greater than 9.55 or salinity was greater than 17.5, but excluding Station 11C, follow this example:

```
PRINT C202,C203 WHERE(C216 GT 9.55 OR C217 GT 17.5)AND NOT C202
---
EQ 11C:
  202* 05A
  203* 07/31/1974
---
```

Note that when the WHERE clause contains only a single Boolean operator, the natural order of Boolean operator processing is not involved. But when Boolean operators are linked together into Boolean combinations, the implicit processing order (without nesting) is first, NOT, then AND, and finally OR. All statements enclosed by paired parentheses are processed before all unnested conditions. In the above examples, all stations and dates having chlorinity greater than 9.55 or salinity greater than 17.5 were retrieved first, then station 11C was eliminated.

Example 6:

The NOT command can be substituted with the NE command, thus:

```
PRINT/NAME/C202,C203 WHERE(C216 GT 9.55 OR C217 GT 17.5)AND
---
C202 NE 11C:
  2 STATION CODE* 05A
  2 DATE OF SAMPLE* 07/31/1974
---
```

Example 7:

The EXIST command retrieves data sets only if the specified component has data values, thus:

```
PRINT C203,C217,C219 WHERE C202 EQ 01A AND C220 EXISTS:
 2 DATE OF SAMPLE* 12/13/1973
 2 WATER SALINITY P/1000*    .05
 2 TOTAL S SED MG/L*   41.33
 2 DATE OF SAMPLE* 12/13/1973
 2 WATER SALINITY P/1000*    .05
 2 TOTAL S SED MG/L*   41.57
 2 DATE OF SAMPLE* 12/13/1973
 2 WATER SALINITY P/1000*    .05
 2 TOTAL S SED MG/L*   42.74
 2 DATE OF SAMPLE* 01/24/1974
 2 WATER SALINITY P/1000*    .13
 2 TOTAL S SED MG/L*   32.49
 2 DATE OF SAMPLE* 01/24/1974
 2 WATER SALINITY P/1000*    .14
 2 TOTAL S SED MG/L*
```

```
            ...ITY P/1000*    .09
2 TOTAL S SED MG/L*    4.78
2 DATE OF SAMPLE* 02/12/1974
2 WATER SALINITY P/1000*    .09
2 TOTAL S SED MG/L*    4.92
2 DATE OF SAMPLE* 02/12/1974
2 WATER SALINITY P/1000*    .07
2 TOTAL S SED MG/L*    5.00
2 DATE OF SAMPLE* 03/21/1974
2 WATER SALINITY P/1000*    .10
2 TOTAL S SED MG/L*   13.32
2 DATE OF SAMPLE* 03/21/1974
2 WATER SALINITY P/1000*    .11
2 TOTAL S SED MG/L*   14.86
---
```

The above command retrieves date, salinity, and suspended sediment values of samples taken at Station 01A only if the suspended sediment percentage of organic parameter was recorded for that sample.

Example 8:

The FAILS command is used to specify conditions where data is missing, thus:

```
PRINT COUNT C216 WHERE C217 FAILS:
-       0  SELECTED DATA SETS -
---
```

The above answer indicates the total number of samples where the chlorinity was recorded without recording the salinity.

Example 9:

The SAME command is used when all conditions (to the left of WHERE clause) are the same as in the previous command, thus:

```
PRINT/NUMBER/COUNT C211 WHERE SAME:
-       0  SELECTED DATA SETS -
---
```

The above answer indicates the total number of samples where water temperature was recorded without recording the salinity.

As shown in previous examples, the types of information to be retrieved are indicated to the left of the WHERE clause, and all delineators or conditions of that information are specified to the right side. A list of information types (system functions) that can be specified (to the left of WHERE clause) using PRINT command are as follows:

PRINT Component Number, or numbers separated by commas
PRINT COUNT, meaning total number
PRINT MIN, meaning minimum value
PRINT MAX, meaning maximum value
PRINT SUM, meaning sum of the values

PRINT AVG, meaning print average value . = $\Sigma X/N$

PRINT SIGMA, meaning standard deviation = $\sqrt{\dfrac{\Sigma x^2 - \dfrac{(\Sigma x)^2}{n}}{n-1}}$

The purpose of the system functions is to permit the user to obtain arithmetic statistics about the data values contained in the data base.

System functions may be used to operate on any item in the data base. The SUM, SIGMA, and AVG may be used only with numeric type elements (DATE, INTEGER, DECIMAL, and MONEY). No system function can reference more than one item, and if multiple items are to be processed, the function name must be repeated with each item. For example:

```
 PRINT COUNT C217,COUNT C218,COUNT C219 WHERE C202 EQ 01A:
CNT 217* 58
CNT 218* 58
CNT 219* 50
---
```

The above answer indicates the total number of salinity, water sigma-T, and total suspended sediment recordings made at Station 01A. Another example is:

```
PRINT MIN C217,MAX C218,AVG C218,COUNT C218,SIGMA C218 WHERE
 ---
 C202 EQ 01A AND C203 SPANS 01/01/74*01/31/74:
 MIN 217*    .07
 MAX 218*    .14
 AVG 218* .108
 CNT 218* 13
 SIG 218* .022
 ---
```

The following command words may be abbreviated as follows:

COMMAND WORD	ABBREVIATION
ADD	AD
ASSIGN	AS
CHANGE	CH
DATA BASE NAME	DBN
DITTO	DI
INSERT TREE	IT
LIST	LI
ORDERED BY	OB
PRINT	PR

COMMAND WORD	ABBREVIATION
REMOVE	RE
REMOVE TREE	RT
SAME	SA
SUPPRESS	SUP
TALLY	TA
WHERE	WH

The DITTO operator can be used to copy the action statement (to the left of WHERE clause) of the most recent command. The DITTO operator is a convenience, never a requirement. If the command were issued:

DITTO WHERE SAME: (CR),

the previous command would be repeated in its entirety.

2.4 Entering and Correcting Data

The operation commands for updating the data base are few in number, are singular in purpose, and contain great potential. Unlike retrieval operations which merely retrieve data without altering the data base, update operations always alter the data base. The varied capabilities within update operation commands include:

- Adding or modifying data within existing data sets
- Removing data from existing data sets
- Adding or modifying partial or total logical entries (data trees)
- Removing part or all of logical entries

The Data Base Cycle Number is incremented when each update operation (command) is successful.

There is no output as a result of update commands analogous to those from retrieval commands and there are only three outputs that can ever occur as a direct result of an update command:

(1) An error message
(2) A message indicating the number of selected data sets
(3) DATA BASE UNALTERED message

If the user desires verification of the update command results, he can request appropriate retrievals following his updates.

The data base is marked internally if any update process is not completed normally; the occurrence of fatal system errors, operator drops, and system drops are examples. (Syntax errors do not cause damage to a data base.) Subsequently, if a user tries to perform an update on a data base damaged from a previous job, the following message is printed out:

- WARNING: DATA BASE DAMAGED NO UPDATES PERMITTED -

This message will appear on every job output that uses a marked data base—that is, a data base damaged by a previous job abort. The message also will be printed if the user attempts to employ an update command. The data base can still be saved, loaded, and described, and retrievals can be accomplished.

If the user receives a message that his data base is damaged, he should release the damaged working data base and then load the data base from the archival magnetic tape again. After this, he may resubmit his corrected updates.

In short, unlike retrieval commands, data base updates should be attempted with care and good understanding of the system.

There are several processes and modes for adding data to the data base. This section presents data updates using the Immediate Access mode operation.

When preparing for an update operation, the user must decide which update operation is desired and which data sets are to be selected for the operation. It is recommended that the update instruction be written on paper first, then entered into the system.

Update commands are categorized as operations which either modify existing data values, data sets and data trees, or create new data sets and new logical entries. Operations *modifying existing data sets* may be further classified as single-level operations or multiple-level operations. The *single level* update operations which modify *existing* data sets are:

ADD	(Adds only missing data to existing samples.)
CHANGE	(Changes only the existing data.)
ASSIGN	(Assigns new values to existing samples whether the data was recorded or not.)
REMOVE	(Removes existing data values.)
INSERT TREE	(Enters new sample data.)

In all Immediate Access update commands, data values expressed to the *left* of the WHERE clause must be delineated by a system separator (*). Data values expressed to the *right* of the WHERE clause do not require a system separator as a delineator.

2.4.1 The ADD Command

The purpose of the ADD command is to add data within existing data sets where no data currently exist. One or several values can be added with this command. For example, to add (a single value) sample depth which was omitted for PLANK WET PPM sample taken at Station 03B on 06/13/74, type:

ADD C505 EQ 4.0*WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR).

When parameter values are being changed in the data base, the values can be specified if known, or the system can be instructed to calculate them and insert the result where the entry is desired. These are three examples:

ADD C505 = (2.0 + 2.0) WHERE C505 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR).
ADD C505 = (4.0*1.0) WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR).
ADD C505 = (8.0/2.0) WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B and C503 EQ 06/13/74: (CR)

Adding (more than one value) sample depth and time which were omitted for PLANK WET PPM taken at Station 03B on 06/13/74 is illustrated by this example:

ADD C500 EQ 504 *1230* 505 *4.0* END* WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR)

Note that the ADD command is restricted to single level operations, can be used only to add data to existing data sets, and will add values only where the specified elements are not currently valued.

2.4.2 The CHANGE Command

The purpose of the CHANGE command is to change data within existing data sets where data exists. To change (a single value) sample depth which was entered incorrectly for PLANK WET PPM taken at Station 03B on 06/13/74, for example, type:

CHANGE C505 EQ 6.0* WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR).

In using the CHANGE command, a function also can be specified when data parameters are changed; for example:

CHANGE C505 = (C505 + 2) WHERE C506 EQ PLANK WET PPM AND C502 EQ 03B AND C503 EQ 06/13/74: (CR)

To change (more than one value) time and sample depth for PLANK WET PPM taken at Station 03B on 06/13/74, for example, type:

CHANGE C500 EQ 504 *1235*505*6.0*END* WHERE C506 EQ PLANK WET PPM AND C503 EQ 03B and C503 EQ 03B AND C503 EQ 06/13/74: (CR).

The CHANGE command is restricted to single level operations and can be used only to change data within existing data sets. The CHANGE command will only produce the desired change if the specified element has a value.

2.4.3 The ASSIGN Command

The purpose of the ASSIGN command is to assign data within existing data sets whether or not data are contained therein. In other words, if more than one sample qualifies the description to the right of the WHERE clause, that value or values will be assigned to all of those samples. It is recommended that the number of the qualifying samples be known before issuing this command.

To assign (one element) a station depth to all samples taken at Station 01A, for example, type:

ASSIGN C227 EQ 16.0* WHERE C202 EQ 01A: (CR)

This command is highly suited to recording data parameters which are to be derived or modified from the existing data.

To CHANGE all water temperature values (C211) expressed in centigrade to farenheit, for example, type:

ASSIGN C211 = (1.8*C211+32) WHERE C211 EXISTS: (CR)

To ASSIGN one element - If the request specifies a single element and its single new data value, then each selected data set is examined to determine if the specified element has an existing value in that data set. If it has, the old value is *changed* to the new value; if it does not, then the new value is *added.*

To ASSIGN (more than one value) latitude and longitude for all samples taken at Station 01A, for example, type:

ASSIGN C200 EQ 222 *393255* 223 *760447* END* WHERE C202 EQ 01A: (CR).

To ASSIGN multiple elements - If the above example (which specifies a repeating group by name or number) is used, then each selected data set is entirely emptied of all values and then filled with as many new values as are found in the value string in the request. For a specified repeating group, a total REMOVE operation is done for each selected data set, followed by a total ADD operation. If a repeating group is specified and if any original data are still to be retained along with the new assignment of values, the new value string also must contain that original data or it will be lost in the total removal. All values in the value string must belong to elements associated with the singularly specified repeating group. The order is immaterial as long as the value is preceded by its proper element.

IMPORTANT NOTE: In using the ASSIGN command where a repeating group is specified, if any original data is to be retained, it must be included as a part of the ASSIGN value string. All values in the value string when new multiple values are being assigned must belong to elements associated with the singularly specified repeating group.

2.4.4 The REMOVE Command

The purpose of the REMOVE command is to remove data from selected data sets. One or all values of a repeating group can be removed with a command such as this example:

REMOVE C227 WHERE C202 EQ 01A: (CR)

The above command removes all Department of Natural Resources (DNR) codes for Station 01A, but to remove all data of a discipline, follow this example:

REMOVE C400 WHERE C400 EXIST: (CR)

The above command removes all Marine Geology data from the data base.

The REMOVE operation removes the data value of either a single element or all elements in each selected data set. If the element format (the first example) is used, then for each selected data set, the value is removed provided that element has a value. If it has no value, no action occurs. If the repeating group format (the second example) is used, *every* value is removed from *every* selected data set.

2.2.5 The INSERT TREE Command

The purpose of the INSERT TREE command is to enter data of several new samples into the data base. There are several different formats that can be used.

To insert data of a new biochemistry sample at the end of previously entered, for example, type:

INSERT TREE C500 *0 EQ 501* data *502*data* 503
..... 519 *data* END* WHERE C1 EQ UBS: (CR).

The INSERT TREE C500*0 indicates the sample is to be added at the end of the sequence of existing samples. If data of any component are not available at the time of the entry, the component number should be omitted. A blank space for the missing data is automatically created from the data base definition.

To insert data of a new marine biology sample with several taxonomy data sets, for example, type:

INSERT TREE C700 EQ 701 *data* 702 *data* 703 *data*
704 *data* .....* 719 *data* 725*726 *data* 727 *data*
728 *data* 729 *data* 730 *data* 725*726 *data...*730
END WHERE C1 EQ UBS: (CR).

Here the above marine biology sample with two taxonomy data sets will be entered into the data base.

To insert data of a new taxonomy data set which belongs to an already entered marine biology sample, for example, type:

INSERT TREE C725 *0 EQ 726 *data* 727 *data* 728
data 729 *data* 730 *data* END* WHERE C701 EQ
ZOOPLANKTN AND C703 EQ 21: (CR).

Here the above taxonomy data set will be inserted with other taxonomy data sets belonging to zooplankton sample Number 21. To determine if the data of Sample 21 has been entered correctly, type:

PRINT C700 WHERE C703 EQ 21: (CR)

Before entering data into the data base using different modes and formats, one should consult the SYSTEM-2000® Users Reference Manual.

2.5 Requesting and Writing Reports

The LIST command is used to retrieve data arranged in a report format. The purpose of this command is to provide the user with a means of displaying output data in a columnar format with optional column labels, page headings, and footings. The LIST command contains many options of data arrangement, spacing, and labeling; however, the actual specification of the data to be retrieved is similar to the PRINT command.

An example of a LIST command retrieving the selected biochemistry data is given below, after which each part of the command is explained separately. The report actually generated by this command is shown in Table 2-6.

```
LIST/TITLE D(30) S SED DRY PPM,F(25)EXAMPLE,R(13)TOTAL+PCB +C508,
 ------
? R(10)1254 PCB,R(10)TOTAL+DDT +C511,R(10)1262 PCB,R(10)1242 PCB/
 ------
? C508,C511,C516,C512,C509,OB C502,C503 WHERE C506 EQ S SED DRY PPM:
```

LIST/TITLE,	Required
D(30)	(Optional) If a title of the report is to be specified, the D(30) indicates the title is to start 30 characters from the left margin on the page.
S SED DRY PPM,	This is the report title selected by the user. No slashes (/), commas (,), or colons (:) are permitted in the title.
F(25),	(Optional) If it is intended that the report be presented on more than one page, F(25) indicates the number of lines to be printed on each page. If the F specification is used with the D specification, the heading also will appear at the beginning of each new page as well as the page number. The minimum number of lines per page is ten and the maximum is sixty.
EXAMPLE,	(Optional) This is a footnote selected by the user. If the LIST command is used for correlation analysis, the use of F(n) to designate the number of lines per page is forbidden.
R(13) TOTAL + PCB C508	Indicates the width and heading of first data column to be printed. R(13) indicates the first column to be thirteen characters in width and justified on the right; for left-justification one would use L(n). TOTAL, PCB, and C508 constitute the column label selected by the user; + causes the label to be printed in vertical sequence. If only R(13) were indicated, the label at the head of the column would be blank. The first column always is printed automatically three characters from the left margin.
B(3),	This may be inserted before R(n) to indicate the spacing between columns. If B(n) is omitted, the system automatically inserts three spaces between columns.

TABLE 2-6. BIOCHEMISTRY "S SED DRY PPM" DATA REPORT GENERATED BY THE LIST COMMAND

S SED DRY PPM 1
75/01/10.

TOTAL PCB C508	1254 PCB	TOTAL DDT C511	1262 PCB	1242 PCB
***				
.7100	.7100			
1.3000	1.3000			
.7900	.6500	.1900	.1400	
.1400	.1400			
.1300	.1300			
.7200	.7200	.0240		
.6400	.0860	.0280	.1800	
.3500	.3000		.0530	
.8800	.3800	.0120	.1100	.3900
.8300	.2600	.1800	.0650	.5000
.6200	.2300	.1200	.0720	.3200
3.4000	1.1000	.0260		
1.1000	.3600	.1500	.3200	.4500
.8700	.3700		.5000	
2.2000	2.2000			
1.4000	.0980	.2100	.0360	1.3000

EXAMPLE

S SED DRY PPM 2
75/01/10.

TOTAL PCB C508	1254 PCB	TOTAL DDT C511	1262 PCB	1242 PCB
***				
1.6000	.2200	.3000	.0790	1.3000
3.8000	.1200	.0270	.2200	3.5000
1.2000	.5400	.2400		
2.7000	[illegible]	.0910	1.5000	
[illegible]		[illegible]	.1100	.2100
			.0350	[illegible]

R(10) 1254 PCB, through R(10) 1242 PCB/	These indicate the other column headings of the report in the desired sequence.
/C508, C511, C516, C512, C509, OB C502, C503	This indicates which and how the data are to be grouped, OB meaning ordered by. C502, C503 indicates that the data are to be grouped by station, and within station by date.
WHERE C506 EQ S SED DRY PPM:	This specification indicates what data is to be retrieved and is analogous to the WHERE clause used with the PRINT command as outlined in Section 2.3.

If a particular report is used frequently, the LIST command can be stored in the system and called upon to produce the report when needed. To store the S SED DRY PPM report in the system, the steps are as follows:

(1) Select a unique component number and name for the report which are not already assigned in the data base definition. For example, make component number = 1234 and component name = SSD-1. (The component number should not be greater than 4500.) To determine what component numbers and names have been assigned, check the data base definition and the list of STRINGS. To get the list of STRINGS, type:

DESCRIBE STRINGS: (CR)

(2) After accessing the data base and following Step 6 as shown in Section 2.1, type:

DEFINE: (CR)

(3) After a question mark has been received, type:

```
1234*SSD-1(STRING$LIST/TITLE D(25) S SED.......................

............ same instructions as shown in previous example  ...........

.............................  WHERE C506 EQ S SED DRY PPM$):
```

Note that only the underlined information is new to the previously given LIST command. Also, a new line of instructions should be started only after printing a comma (,), or a slash (/).

(4) After the entire command is completed, ending with a colon (:), and a question mark is received from the system, type:

MAP: (CR)

(5) At this point, a one or two-minute wait may be encountered. After receipt of another question mark, the report can be requested automatically any time.

(6) To request the same report (or any other data), the user must be in the ACCESS mode. To exit the DEFINE mode, entered in Step 2, type:

ACCESS: (CR)

(7) To request the S SED DRY PPM report automatically, type:

C1234 (CR) or *SSD-1* (CR)

NOTE: When calling STRINGS (automatic reports) colon (:) should not be used.

If the LIST report is to include data from different disciplines, merged or aligned on specified data parameters or their ranges, Section 2.6 should be referenced.

Also, if automatic correlation analyses are to be performed on the extracted data, the following should be omitted from the LIST command:

(1) Omit F(nn) and footnote EXAMPLE
(2) Always use R(13) for first column of data
(3) Always used R(10) for other columns of data
(4) Omit B(n)
(5) Do not use column headings

2.6 Performing Correlation Analyses Within a Single Discipline

This section describes the method for correlating within a single discipline when it is not required that the data in one column be aligned with data in another. Section 2.7 describes the method for correlating data from two different disciplines or when alignment of data columns is required.

Determining the correlation between any data parameters from the same discipline is relatively easy when alignment of data in parallel columns is not necessary. This involves (1) retrieving the data to be correlated by using the LIST command, (2) saving the retrieved data on a separate file, and (3) instructing the system to perform the correlation analysis on the file. Such analysis provides linear correlation coefficients between the selected columns of data and the average, standard deviation, and variance values of each data column correlated.

The correlation analysis is limited to five data columns at a time when 10 or 30-CPS terminals are employed because of the width of paper on which the data and the coefficient matrix are printed.

To determine what degree of correlation exists between Total PCB (C508), 1254 Aroclor (C511), Total DDT (C516), Sus Sed mg/1 (C520), and Technical Clordane (C513) found in all S SED H20 PPT samples of the biochemistry discipline, for example, the steps are:

Step 1: After entering the UBSDS (Step 7, Section 2.1), select a unique name having not more than 9 characters for the file on which the data is to be extracted for correlation. It is suggested that the user's initials numerically incremented be used for these file names. (e.g., ARB1, ARB2, etc.).

It is important to note that when more than two but not more than five columns of data are to be extracted for correlation, each column (i.e., data parameter) may not contain the same number of data points (i.e., data values) as the others. The correlation analysis does not correlate entries where data is missing; thus, for a more accurate result, the columns should be arranged in order of the quantity of data in each column. For example, if *C508* vs *C511* vs *C513* vs *C516* vs *C520* for all S SED H20 PPT samples of biochemistry data are to be correlated, the parameters should be arranged (extracted) in sequence of the number of values in each column. To determine how many data values each parameter contains, type:

```
PRINT COUNT C508,COUNT C511,COUNT C513,COUNT C516,COUNT C520
 ------
? WHERE C506 EQ S SED H20 PPT:
 CNT 508* 57
 CNT 511* 57
 CNT 513* 40
 CNT 516* 40
 CNT 520* 54
 ------
?
```

Step 2: Once the magnitude of data of each parameter to be correlated is known, type:

REPORT FILE IS ARB1: (CR)

(The "ARB1" is a file name selected by the user.)

Step 3: After a question mark has been received, type a LIST command to retrieve and store the desired data on a file called ARB1, as in this example:

```
LIST/TITLE D(25)ARB1 CORR TEST 1,R(13),R(10),R(10),R(10),R(10)/
 ------
? C508,C511,C520,C516,C513,OB C502,C503 WH C506 EQ S SED H20 PPT:
 ------
```

Note that the above LIST command does not assign column headings; only the width of each column is indicated as by R(13) for the first column and R(10) for others. The sequence and identification of each column is specified on the second line of the above instruction. First column is C508 or Total PCB, containing 57 data values as determined in Step 1. The second column is C511 or 1254 Aroclor, containing also 57 data values. The third column is C520 or SUSPENDED SEDIMENT mg/1, containing 54 data values. The fourth column is C516 or Total DDT with 40 data values. And the fifth column is Technical Chlordane containing also 40 data values.

The data on the ARB1 file is ordered by station and within station by date (OB C502, C503). WH is the abbreviation of WHERE specifying which sample type data is to be correlated. In general, to the right of the WHERE specification, the methodology for retrieval of the data is identical to that of the PRINT or LIST commands explained in previous sections.

Step 4: After the LIST command has been entered and a question mark received, type:
EXIT: (CR)

Step 5: After receipt of READY, type:
SAVE, ARB1 (CR)

Note that outside of the data management system, commands should not end with a colon (:). ARB1 is a user-assigned file name containing only the retrieved data.

Step 6: If it is desired to obtain a listing of the actual data in the ARB 1 file, type:
LNH, F = ARB1 (CR)

Table 2-7 shows a part of the ARB1 FILE.

TABLE 2-7. BIOCHEMISTRY "S SED H20 PPT" DATA EXTRACTED ON "ARB1" FILE

ARB1
75/01/15.

◆◆◆

30.0000	30.0000	42.57		
57.0000	57.0000	42.70		
28.0000	23.0000	35.03	6.8000	4.3000
1.6000	1.6000	11.30		
2.0000	2.0000	14.86		
5.8000	5.8000	9.58	.2000	2.1000
11.0000	1.4000	16.73	.4700	2.0000
8.7000	7.4000	24.87		
17.0000	7.5000	19.86	.2400	.4800
7.8000	2.5000	9.53	1.8000	3.7000
18.0000	6.6000	[illegible]	2.9000	
25.0000	[illegible]	[illegible]	[illegible]	
8.5[illegible]				

Step 7: After a slash (/) or READY is received, type:
CLEAR (CR)
After another slash (/) or READY is received, type:
BATCH, 50000 (CR)
After a slash (/) or READY is received, type:
GET, ARB1 (CR)
And after a slash or READY (again), type:
-ANALYST (T=ARB1) (CR)

Step 8: Wait for the system to print NUMBER OF DATA COLUMNS TO BE RUN?, of which the question mark will be delayed a few seconds. After the question mark has been received, type the number of columns to be correlated. The user may first correlate the first two columns by typing 2 (CR), C508 vs C511, these being the columns having the greatest number of data points. Then by repeating Step 7 (above), another set of columns may be correlated. Table 2-8 shows all of the procedure steps and the correlation matrix of ARB1 file.

If all five columns of ARB1 file were to be correlated, the correlation coefficient matrix as shown in Table 2-8 is interpreted as follows:

	C508	C511	C520	C516	C513
C508	1	vs	vs	vs	vs
C511		1	vs	vs	vs
C520			1	vs	vs
C516				1	vs
C513					1

The correlation coefficients may range from 1.0 to -1.0, 1.0 indicating a perfect correlation, 0.0 indicating no correlation, and -1.0 indicating a perfectly negative correlation. A negative correlation may be interpreted as meaning that when values of one data parameter increase, the values of the other parameter decrease, the degree being indicated by the coefficient. Note that Technical Chlordane versus Total Suspended Sediment mg/1 (C513 vs C520) in Table 2-8 shows a coefficient 1.26229 E-3. The E-3 indicates that the decimal point is to be moved three spaces to the left, making the coefficient actually 0.00126229.

Step 9: After the correlation of the data of ARB1 is complete, delete the file by typing:
PURGE, ARB1 (CR)

To correlate another set of data, enter the data management system and repeat the correlation steps described above. If the analysis is completed, log-out by typing: BYE (CR).

2.7 Performing Multidisciplinary Correlation Analyses

Since it was not practicable to take the quantity, location, time, and depth of samples uniformly by all disciplines, arrangement or matching of data prior to correlation is necessary. This procedure involves (1) retrieving the data to be correlated for each discipline on a separate file (using LIST command), then (2) specifying how the retrieved data are to be matched and transcribed onto one file, and then (3) performing the analysis on the properly arranged data file. This methodology allows the user considerable flexibility in specifying arrangement of the data and the acceptable tolerance limits (ranges) if data of different disciplines do not correspond to the specified dimensions on which they are to be merged.

TABLE 2-8. PROCEDURE STEPS AND CORRELATION MATRIX WHEN MATCHING OF DATA IS NOT REQUIRED

```
? REPORT FILE IS ARB1:
 ------
? LIST/TITLE D(25)ARB1 CORR TEST1,R(13),R(10),R(10),R(10),R(10)/
 ------
? C508,C511,C520,C516,C513,OB C502,C503 WH C506 EQ S SED H20 PPT:
 ------
? EXIT:
          END SYSTEM 2000
SWCE  SY04              2.876
/SAVE,ARB1
/CLEAR
/BATCH,50000
$RFL,50000.
/GET,ARB1
/--ANALYST(T=ARB1)
NUMBER OF DATA COLUMNS TO BE RUN
? 2
VARIABLE          MEAN          VARIANCE       STD. DEV.
 1               11.2114        141.705         11.904
 2               6.03821        91.9476         9.58893

THE CORRELATION MATRIX

 1                .824544

                  1.


/CLEAR
/BATCH,50000
$RFL,50000.
/GET,ARB1
/--ANALYST(T=ARB1)
NUMBER OF DATA COLUMNS TO BE RUN
? 5
VARIABLE          MEAN          VARIANCE       STD. DEV.
 1               9.61029        117.351         10.8329
 2               3.65818        35.0354         5.91907
 3               10.4838        111.487         10.5587
 4               1.11288        3.63312         1.90607
 5               2.18259        10.9021         3.30183

THE CORRELATION MATRIX

 1.               .857352        .278957         .145141         .817763

                  1              .285562         .30589          .742705

                                 1.              .206747         1.26229E-3

                                                 1.              .234136

                                                                 1
```

The procedure described below for matching data and formatting files is purposely more extensive than required to provide users with additional file manipulation capability for other analyses or presentations of data. Also, the methodology has potential for enhanced capabilities to simplify yet more the users' instructions and to merge more than two files simultaneously. The procedure described below can be used to generate any interdisciplinary data report or to create a data file for correlation analyses between different groupings of data.

For example, one could correlate biochemistry data TOTAL PCB of PLANK H20 PPT samples vs TOTAL PCB of PLANK WET PPM samples vs marine biology data BIOMS DISPL VOL ML/M3 vs BIOMS WET WEIGHT MG/M3 vs BIOMS DRY WEIGHT MG/M3 of zooplankton samples.
In other words,

C508 (PLANK H20 PPT type samples)
vs
C508 (PLANK WET PPM type samples)
vs
C713 (ZOOPLANKTN type samples)
vs
C714 (ZOOPLANKTN type samples)
vs
C715 (ZOOPLANKTN type samples)

Step 1 (Optional): Prior to retrieval of data from the data base, one should determine first the volume of data to be correlated. To determine the volume of data points, after entering the data base (Section 2.1, Step 7) type:

```
PRINT COUNT C508 WHERE C506 EQ PLANK H20 PPT:
 CNT 508♦ 43
 ------
? PRINT COUNT C508 WHERE C506 EQ PLANK WET PPM:
 CNT 508♦ 44
 ------
? PRINT COUNT C713,COUNT C714,COUNT C715 WHERE C701 EQ ZOOPLANKTN:
 CNT 713♦ 52
 CNT 714♦ 51
 CNT 715♦ 51
 ------
?
```

The above answers indicate the number of data points available for correlation. Note that three instructions are required, since data parameters involve three different types of samples (data groups). For interpretation of component numbers, see the data base definition (Section 1.5).

Step 2: This involves retrieving the data on separate files to be merged later according to specified parameters. Initial retrieval should include the identification parameters on which the data is to be merged or aligned (e.g., station code, date, time, depth, etc.). Other parameters can be extracted at this time. However, since the limiting factor is the width of paper on which the file is to be printed, one should not exceed 72 characters including the blank spaces between columns. (There are large printers that can handle up to 129 characters.) To retrieve total PCB of PLANK H20 PPT samples, the previously explained LIST command should be used, before which type:

(a) REPORT FILE IS ARB10A: (CR)
Wait for a question mark. (ARB10A is file name selected by the user. Limit this file name to six alphanumeric characters.) Then type the LIST command:
(b)

```
? LIST/TITLE D(30)PCB OF PLANK H2O PPT FILE--A,R(5)STATN,R(10)DATE,
 ------
? R(4)TIME,R(5)DEPTH,R(8)TOTAL PCB,R(8)TOTAL DDT,R(8)TECH CHL/
 ------
? C502,C503,C504,C505,C508,C516,C513,DB C502,C503 WHERE
 ------
? C506 EQ PLANK H2O PPT:
 ------
```

NOTE: Do not use the F(n) specification and do not make any column wider than 10 characters. In all other respects, the user has complete flexibility of the LIST command to retrieve data.
(c) EXIT: (CR)
Wait for slash (/) or READY.
(d) SAVE, ARB10A (CR)
To list the file, type:
(e) LNH, F = ARB10A (CR) Table 2-9 shows a partial listing of ARB10A file.

NOTE: If the file is too long to be listed in its entirety, press / key after obtaining a few data entries. The system will print "*INTERRUPTED*", then type *STOP* (CR). Wait for the system to print READY, then continue as outlined.
(f) -UBS (CR) to enter UBSDB.

Step 3: After entering UBSDB, to retrieve PLANK WET PPM data type:
(a) REPORT FILE IS ARB10B: (CR)
Wait for a question mark, then type the LIST command:
(b)

```
? LIST/TITLE D(30)PCB OF PLANK WET PPM FILE--B,R(5)STATN,R(10)DATE,
 ------
? R(4)TIME,R(5)DEPTH,R(8)TOTAL PCB,R(8)TOTAL DDT,R(8)TECH CHL/
 ------
? C502,C503,C504,C505,C508,C516,C513,DB C502,C503 WHERE
 ------
? C506 EQ PLANK WET PPM:
```

Wait for the question mark, then type:
(c) EXIT: (CR)
Wait for READY.
(d) SAVE, ARB10B (CR)
Wait for the slash (/) or "READY".
(e) LNH, F=ARB10B (CR)
To list the file. Table 2-10 shows a partial listing of ARB10B file.
(f) -UBS (CR) To enter UBSDB.

Step 4: After entering UBSDB again, retrieve marine biology data by typing:
(a) REPORT FILE IS ARB10C: (CR)
Wait for a question mark. Then type the LIST command

TABLE 2-9. PARTIAL LISTING AND FORMATTING OF FILE ARB10A (INPUT FILE)

PCB OF PLANK H2O PPT FILE--A

75/01/22.

STATN		DATE		TIME		DEPTH		TOTAL PCB		TOTAL DDT		TECH CHL
***												
01A		12/13/1973						.3600		.0000		.0000
01A		01/24/1974						1.7000		.2100		.0000
01A		03/21/1974						.1500		.0000		.0000
01A		05/03/1974						.0670		.8300		.7100
01A		06/13/1974						.0000		.2200		.0000
03B		03/21/1974						.1600		.0000		.0000
03B		05/03/1974						16.0000		9.6000		14.0000
03B		06/										
01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	F5.1	X3	F9.4	X3	F9.4	X3	F8.4

A = Alphanumeric data characters

X = Blank spaces

I = Integers

F = Decimal

TABLE 2-10. PARTIAL LISTING AND FORMATTING OF FILE ARB10B (INPUT FILE)

PCB OF PLANK WET PPM FILE--B

75/01/22.

STATN	DATE	TIME	DEPTH	TOTAL PCB	TOTAL DDT	TECH CHL
◆◆◆						
01A	12/13/1973			7.5000	.0000	.0000
01A	01/24/1974			.0900	.0120	.0000
01A	03/21/1974			5.6000	.0000	.0000
01A	05/03/1974			.0061	.0750	.0650
01A	06/13/1974			.0000	4.2000	.0000
03B	03/21/1974			7.2000	.0000	.0000
03B	05/03/1974			.3700	.1700	.3200
03B	06/13/1974			.2300	.0210	.0000
05A						

01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A5.1	X3	F9.4	X3	F9.4	X3	F8.4

A = Alphanumeric data characters

X = Blank spaces

I = Integer

F = Decimal

(b)

```
? LIST/TITLE D(30)MARINE BIOLOGY FILE--C,R(5)STATN,R(10)DATE,R(4)TIME,
 ------
? R(7)DEPTH R,R8+(6)C713,R(6)C714,R(6)C715/
 ------
? C702,C705,C706,C711,C713,C714,C715,OB C702,C705 WHERE
 ------
? C701 EQ ZOOPLANKTN:
```

Wait for the question mark, then type:
(c) EXIT: (CR)
Wait for READY.
(d) SAVE, ARB10C (CR)
Wait for slash (/) or READY.
(e) LNH, F = ARB10C (CR)
Table 2-11 shows a partial listing of ARB10C file. Save the listings of the files. Note that once the file is saved, as shown in Steps 2 (d), 3 (d), and 4 (d), it can be called (outside SYSTEM-2000®) and listed anytime by typing, for example:
GET, ARB10C (CR) then LNH,F=ARB10C (CR).

Step 5: Once the data for correlation are extracted and saved in separate files ARB10A, ARB10B, and ARB10C, the format of these files and the format of the new files on which the data is to be merged (sorted) must be specified.
Tables 2-9 through 2-11 show how to determine the formats of the extracted files. Table 2-12 shows how to format new files on which data is to be merged for a report file or to format a file to be used for automatic correlation. If data files are merged for correlation, the new file should not include column headings, and each data column should be separated by at least three blank spaces. The first data column also should be preceded by three asterisks (***). The asterisks are inserted automatically as explained in the examples.

EXAMPLE:
The procedural steps to merge ARB10A data in one file. "ARB10T", properly aligned by station and date, are given below: (The subsequent commands are not SYSTEM-2000®, type EXIT: (CR) if operating in SYSTEM-2000.)®

(a) CLEAR (CR)
Wait for the system to print FILE NAME, then press carriage return key (CR).
(b) (CR)
Wait for the system to print ILLEGAL PARAMETER, then type:
(c) NEW, ARB1 (CR)
Wait for the system to print a slash (/) or READY, then type: (ARB1 is user-assigned command file name on which all the merge instructions and the format of ARB10T file will be recorded.)
(d) TEXT (CR)
Wait for the system to print ENTER TEXT MODE, then type:
(e) $INPUT$ (CR)
In TEXT MODE, there is no response from the system; continue typing in sequence (see Table 2-13):
A=ARB10A (CR)
Input file name. A to Z program identification letters for corresponding file names.
13 (CR)
Total number of columns in file ARB10A or file A (see Table 2-9).
01A8 (CR)
01 is the first column of file A. A8 is data type and column width (characters).
X = Blank spaces (no data).

TABLE 2-11. PARTIAL LISTING AND FORMATTING OF FILE ARB10C (INPUT FILE)

MARINE BIOLOGY FILE-C
75/01/22.

STATN	DATE	TIME	DEPTH R	C713	C714	C715
***						
001	11/25/1974	1020	00..03			
002	11/25/1974	1155	00..08			
003	11/25/1974		00..09			
005	11/25/1974	1515	00..05			
01A	12/13/1973	1410	0..08	126.98	50.98	20.499
01A	01/24/1974	1400	0..24	123.84	137.09	47.183
01A	03/21/1974	1310	0..06	18.30	21.13	2.745
01A	05/03/1974	1200	0---05	28.57	11.81	1.810
01A	06/13/1974	1346	0---10	29.94	55.39	3.952
01A	08/10/1974	1145	0---04			
01A	09/20/1974	1047	00..16			
01A	12/18/1974	1210	00..10			
03B	01/24/1974	1610	0..09	38.43	33.97	7.480
03B	03/21/1974	1430	0..05	33.83	29.21	6.653
03B	05/03/1974	1010	0---03	55.08	62.38	7.573
03B	06/13/[illegible]			[illegible]	8.52	[illegible]
03B						
[illegible]						

01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A7	X3	F6.2	X3	F6.2	X3	F6.3

A = Alphanumeric characters

X = Blank spaces

I = Integer

F = Decimal

TABLE 2-12. FORMATTING THE RETRIEVED AND NEW FILES TO BE MERGED

ARB10A FILE (PLANK H2O PPT)

*** STATN		DATE		TIME		DEPTH		TOTAL PCB		TOTAL DDT		TECH CHL
01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A5.1	X3	F9.4	X3	F9.4	X3	F8.4

"A"

ARB10B FILE (PLANK WET PPM)

*** STATN		DATE		TIME		DEPTH		TOTAL PCB		TOTAL DDT		TECH CHL
01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A5.1	X3	F9.4	X3	F9.4	X3	F8.4

"B"

ARB10T FILE (PLANK H2O PPT) (PLANK WET PPM)

*** STATN		DATE		TIME		DEPTH		TOTAL PCB		TOTAL PCB		
01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A5.1	X3	F9.4	X3	F9.4	X3	F8.4

"T"

ARB10C FILE

*** STATN		DATE		TIME		DEPTH R		C713		C714		C715
01	02	03	04	05	06	07	08	09	10	11	12	13
A8	X3	A10	X3	I4	X3	A7	X3	F6.2	X3	F6.2	X3	F6.2

"C"

ARB10D FILE

***	(C508 WET)		(C508 H2O)		(C713)		(C714)		(C715)	
01	02	03	04	05	06	07	08	09	10	
X7	F9.4	X4	F9.4	X7	F6.2	X7	F6.2	X7	F6.2	

"D"

*** X6	DATA - 1	X3	DATA - 2	X3	DATA - 3	X3	DATA - 4	X3	DATA - 5

MINIMUM SPACING AND MAXIMUM DATA FIELDS OF A FILE FOR AUTOMATIC CORRELATION

TABLE 2-13. COMPLETE INSTRUCTIONS TO CREATE ARB10T FILE

```
? EXIT:
          END SYSTEM 2000
READY.
CLEAR
FILE NAME:
ILLEGAL PARAMETER.

NEW,ARB1
READY.
TEXT
ENTER TEXT MODE.

$INPUT$
A=ARB10A
13
01A8
02X3
03A10
04X3
05I4
06X3
07F5.1
08X3
09F9.4
10X3
11F9.4
12X3
13F8.4
B=ARB10B
13
01A8
02X3
03A10
04X3
05I4
06X3
07F5.1
08X3
09F9.4
10X3
11F9.4
12X3
13F8.4
$OUTPUT$
T=ARB10T
13          HEAD
01A8
02X3
03A10
04X3
05I4
06X3
07F5.1
08X3
09F9.4
10X3
11F9.4
12X3
13F8.4
$CONDITION1
(A01.NE.10H            ).AND.;
(A01.EQ.B01).AND.;
(A03.EQ.B03)$
$COPYORDER1
T01=A01;
T03=A03;
T09=A09;
T11=B09$
$EXECUTE$
EXIT TEXT MODE.
PACK,ARB1
READY.
SAVE,ARB1
READY.
LNH,F=ARB1   (OPTIONAL)

CLEAR
READY.

ILLEGAL COMMAND.

BATCH,100000
$RFL,100000.
/GET,ARB10A
/GET,ARB10B
/GET,XCTRL=ARB1
/--XCOLMRG
EXIT.
/REWIND,ARB10T
$REWIND,ARB10T.
/SAVE,ARB10T
/LNH,F=ARB10T
```

02X3	(CR)	A = Alphanumeric text
03A10	(CR)	I = Integer number
04X3	(CR)	F = Decimal
0514	(CR)	*IMPORTANT NOTE*
06X3	(CR)	● The one or two-digit number following the letter
07F5.1	(CR)	indicates the total width of the column in characters (01 to 99).
08X3	(CR)	
09F9.4	(CR)	
10X3	(CR)	● The one or two-digit number following the
11F9.4	(CR)	decimal point (for F type only) indicates
12X3	(CR)	the number of digits to the right
13F8.4	(CR)	of the decimal point.
		● The I and F types need only be used when the column will be subjected to a matching expression which uses .GT. or .GE. or =LT. or.IE..
		● The column width for type A should not be greater than ten characters.

After the format of the first input file A is defined, continue defining the second input file ARB10B. (See Table 2-10.)

B=ARB10B	(CR)	Format of second input file.
13	(CR)	If this file had only 4 columns instead of 14, 04 should be used ... not 4.
01A8	(CR)	
02X3	(CR)	
03A10	(CR)	
04X3	(CR)	
05I4	(CR)	
06X3	(CR)	
07F5.1	(CR)	
08X3	(CR)	
09F9.4	(CR)	
10X3	(CR)	
11F9.4	(CR)	
12X3	(CR)	
13F8.4	(CR)	

After the formats of both input files have been defined, the desired output file, ARB10T, must be specified: (See Table 2-12.)

$OUTPUT$	(CR)	
T=ARB10T	(CR)	
13△△△△△△△△	HEAD(CR)	13 indicates the number of columns in ARB10T or T file. (See Table 2-12.) △ = spaces, HEAD inserts the three asterisks (***) automatically.
01X8	(CR)	
02X3	(CR)	
03A10	(CR)	Format of output T from Table 2-12.
04X3	(CR)	
0514	(CR)	
06X3	(CR)	
07F5.1	(CR)	The user has the option to specify spacing and column widths
08X3	(CR)	of the output file.
09F9.4	(CR)	
10X3	(CR)	
11F9.4	(CR)	
12X3	(CR)	
13F8.4	(CR)	

Note that headings of each data column in file T are desired, the header can be entered for each corresponding column, for example, as follows:

```
02F9.4        PCB     H20(CR)
```

However, these column headings must start ten characters to the left from Column 1. In other words, the first ten spaces are reserved for the file format specification. Also the column heading should not exceed the data column width. In the example above, the second column 02 could have a heading nine characters long.

After the format of the output file T is defined, the matching (sorting) conditions of data must be specified, as follows:

```
$CONDITION1 (CR)
(A01.NE.10H△△△△△△△△△△) .AND.; (CR)
```

The above instruction specifies that the first data column 01 of file A should not be equal (.NE.) to blanks. 10H followed by ten blank spaces (denoted by 10 deltas) is used to bypass missing data from file A when matching data. This condition should always be used as indicated above.

```
(A01.EQ.B01) .AND.; (CR)
(A03.EQ.B03)$
```

This instruction specifies that the first column of a line from file A is to be equal to the first column of a line from file B, and the third column of a line from file A also is to be equal to the third column of a line from file B. In other words, the station code and date must match in both files A and B.

OPTIONAL:

If the data were to be matched also on TIME Column 05, File A and Column 05, File B, the condition specification would be as follows:

```
$CONDITION1
(A01.NE.10H△△△△△△△△△△) .AND.;
(A01.EQ.B01) .AND.;
(A03.EQ.B03) .AND.;
(A05.EQ.B05)$
```

OPTIONAL:

If the TIME, recorded on a 2400-hour clock, were also to be assigned a range limit of ±2 hours, the specification would be as follows:

```
$CONDITION1
(A01.NE.10H△△△△△△△△△△) .AND.;
(A01.EQ.B01) .AND.;
(A03.EQ.B03) .AND.;
(A05.GE.A05-200) .AND.;
(A05.LE.A05+200)$
```

Note that actual FORTRAN IV statements can be used in any CONDITION specifications. If DATE were to contain a range limit also, the DATE column should be divided into separate MM, DD, and YY subcolumns, and the ranges should be assigned to those columns. When retrieving data files using REPORT WRITER instead of a LIST command, division of DATE field is not necessary.

After the merge conditions are indicated, the COPYORDER must be specified to indicate from which input files the data is to be moved to the output file.

```
$COPYORDER1   (CR)
T01=A01;      (CR)
T03=A03;      (CR)
T09=A09:      (CR)
T11=B09$      (CR)
$EXECUTE$
```

T01=A01 data of file T, column 01 is obtained from file A, column 01.

After the copy order is specified ending with $EXECUTE$, press the CONTROL and C keys simultaneously.

(CTRL) and (C) keys simultaneously, wait for the system to print EXIT TEST MODE., then type:

PACK, ARB1 (CR) Wait for the system to print READY, then type:

SAVE, ARB1 (CR) Wait for the system to print READY or /. To obtain a listing of the entire ARB1 specification program file, type:

LNH,F=ARB1 (CR)

To execute the ARB1 file and to obtain the merged T file, type:

CLEAR (CR)

Wait for the system to print FILE NAME:, then press the carriage return key.

(CR)

Wait for the system to print ILLEGAL PARAMETER, then type:

BATCH, 100000 (CR)

Wait for the system to respond $RL,100000., then type:

GET, ARB10A (CR)

Wait for /, then type:

GET, ARB10B (CR)

Wait for /, then type:

GET, XCTRL = ARB1(CR)

Wait for /, then type:

-XCOLMRG (CR)

This instruction will activate the merge program ARB1 and will create the output file ARB10T. Wait for the system to print EXIT; there may be a one or two-minute delay. This indicates that the program has been executed; then type:

REWIND, ARB10T (CR)

SAVE, ARB10T (CR)

To obtain a listing of ARB10T, type;

LNH, F=ARB10T (CR)

An example of this file containing Station, Date, Total PCB of Plankton, H20 PPT, and total PCB of Plankton Wet PPM samples is shown in Table 2-14.

An example of this file containing Station, Date, Total PCB of Plankton, H20 PPT, and Total PCB of Plankton Wet PPM samples is shown in Table 2-14.

In merging ARB10T with File ARB10C in order to obtain File ARB10D to be used for correlation, the procedure is similar to Step 5. However, a new ARB (merge command) file must be specified. Table 2-15 shows all the steps and instructions required to create the ARB command file and to obtain the merged ARB10D file. Exhibit 2-16 shows a listing of the ARB10D file.

Step 6: To correlate the data file ARB10D, type:

CLEAR (CR)

Wait for the system to print FILE NAME., then press (CR) key

(CR)

Wait for the system to print ILLEGAL PARAMETER., then type:

BATCH, 50000 (CR)

After a slash (/) or READY, type:

GET, ARB10D (CR)

After a slash again, type:

-ANALYST (T=ARB10D) (CR)

(Follow the same instructions as given in Step 8 on page 2-29.)

The correlation matrix of ARB10D file is shown in Figure 2-17.

TABLE 2-14. LISTING OF ARB10T FILE, CREATED FROM ARB10A AND ARB10B FILES

```
***
   01A      12/13/1973      0      0.0        .3600      7.5000      0.0000
   01A      01/24/1974      0      0.0       1.7000       .0900      0.0000
   01A      03/21/1974      0      0.0        .1500      5.6000      0.0000
   01A      05/03/1974      0      0.0        .0670       .0061      0.0000
   01A      06/13/1974      0      0.0       0.0000      0.0000      0.0000
   03B      03/21/1974      0      0.0        .1600      7.2000      0.0000
   03B      05/03/1974      0      0.0      16.0000       .3700      0.0000
   03B      06/13/1974      0      0.0       2.1000       .2300      0.0000
   05A      12/13/1973      0      0.0        .1500      1.8000      0.0000
   05A      01/24/1974      0      0.0        .0120       .9600      0.0000
   05A      03/21/1974      0      0.0       9.1000       .4100      0.0000
   05A      05/03/1974      0      0.0        .5300       .0330      0.0000
   05B      01/24/1974      0      0.0        .0025       .3400      0.0000
   05B      03/21/1974      0      0.0      27.0000       .0730      0.0000
   05B      05/03/1974      0      0.0       2.7000       .1200      0.0000
   07A      12/14/1973      0      0.0       1.3000      1.2000      0.0000
   07A      01/23/1974      0      0.0        .0120       .0250      0.0000
   07A      06/11/1974      0      0.0       2.8000       .0710      0.0000
   07B      05/01/1974      0      0.0       9.9000       .1700      0.0000
   07B      06/11/1974      0      0.0       5.6000       .4600      0.0000
   08A      12/14/1973      0      0.0        .0170       .2700      0.0000
   08B      01/24/1974      0      0.0        .0180       .4900      0.0000
   08B      05/02/1974      0      0.0        .0740       .0360      0.0000
   08B      06/13/1974      0      0.0       2.1000       .5200      0.0000
   08C      01/24/1974      0      0.0       6.4000       .1900      0.0000
   08C      05/02/1974      0      0.0        .1400       .1700      0.0000
   08C      06/12/1974      0      0.0        .0001       .0290      0.0000
   09A      12/14/1973      0      0.0        .1000       .9000      0.0000
   09A      01/17/1974      0      0.0       2.9000       .0250      0.0000
   09B      01/17/1974      0      0.0        .0400       .0880      0.0000
   09C      01/17/1974      0      0.0       7.3000       .0220      0.0000
   10B      12/12/1973      0      0.0        .0320       .3100      0.0000
   10B      01/23/1974      0      0.0        .0090       .1600      0.0000
   10B      03/20/1974      0      0.0      36.0000       .1200      0.0000
   10B      05/02/1974      0      0.0        .0880       .0440      0.0000
   10B      06/12/1974      0      0.0        .1400       .0071      0.0000
   11A      12/12/1973      0      0.0        .1500       .1100      0.0000
   11A      01/23/1974      0      0.0        .0093       .0790      0.0000
   11A      05/02/1974      0      0.0        .8400       .1100      0.0000
   11C      01/23/1974      0      0.0        .1100       .0006      0.0000
   11C      05/02/1974      0      0.0        .1200       .0110      0.0000
   11C      06/12/1974      0      0.0        .0360       .0180      0.0000
   11D      05/01/1974      0      0.0       2.0000       .0220      0.0000
END OF INFORMATION ENCOUNTERED.
```

TABLE 2-15. COMPLETE INSTRUCTIONS TO CREATE ARB10D FILE

```
CLEAR
/
 ILLEGAL CONTROL CARD.
/NEW,ARB2
/TEXT
ENTER TEXT MODE.

$INPUT$
T=ARB10T
13
01A8
02X3
03A10
04X3
05I4
06X3
07F5.1
08X3
09F9.4
10X3
11F9.4
12X3
13F8.4
C=ARB10C
13
01A8
02X3
03A10
04X3
05I4
06X3
07A7
08X3
09F6.2
10X3
11F6.2
12X3
13F6.2
$OUTPUT$
D=ARB10D
10          HEAD
01X7
02F9.4
03X4
04F9.4
05X7
06F6.2
07X7
08F6.2
09X7
10F6.2
$CONDITION1
(C01.NE.10H                    ).AND.;
(T01.EQ.C01).AND.;
(T03.EQ.C03)$
$COPYORDER1
D02=T09;
D04=T11;
D06=C09;
D08=C11;
D10=C13$
$EXECUTE$     (CR)
              CONTROL + Z"

EXIT TEXT MODE.
REWIND,ARB2
$REWIND,ARB2.
/PACK,ARB2
 PACK COMPLETE.
/SAVE,ARB2
/LNH,F=ARB2     (OPTIONAL)

CLEAR
ILLEGAL PARAMETER.

BATCH,100000
$RFL,100000.
/GET,ARB10T
/GET,ARB10C
/GET,XCTRL=ARB2
/-XCOLMRG
EXIT.
REWIND,ARB10D
$REWIND,ARB10D
/PACK,ARB10D
 PACK COMPLETE.
/SAVE,ARB10D
/LNH,F=ARB10D
```

TABLE 2-16. DATA OF ARB10D FILE IN CORRELATION FORMAT

/LNH,F=ARB10D

(C508 PLANK H2O)	(C508 PLANK WET)	(C713)	(C714)	(C715)
***				
.3600	7.5000	126.98	50.98	20.50
1.7000	.0900	123.84	137.09	47.18
.1500	5.6000	18.30	21.13	2.75
.0670	.0061	28.57	11.81	1.81
0.0000	0.0000	29.94	55.39	3.95
.1600	7.2000	33.83	29.21	6.65
16.0000	.3700	55.08	62.38	7.57
2.1000	.2300	20.88	8.52	1.21
.1500	1.8000	110.66	80.32	9.50
.0120	.9600	14.34	11.89	1.71
9.1000	.4100	97.56	84.93	9.07
.5300	.0330	32.29	15.71	1.76
.0025	.3400	8.09	7.91	.96
27.0000	.0730	433.18	365.05	40.96
2.7000	.1200	16.50	22.14	2.68
1.3000	1.2000	73.55	990.97	47.41
.0120	.0250	467.11	476.93	59.60
2.8000	.0710	55.46	36.81	6.66
9.9000	.1700	97.72	55.70	8.40
5.6000	.4600	16.78	11.75	2.01
.0170	.2700	173.29	65.42	1.30
.0180	.4900	36.23	39.41	5.63
.0740	.0360	9.02	1.92	.20
6.4000	.1900	26.32	21.28	2.81
.1400	.1700	6.70	.80	.07
.0001	.0290	13.36	4.14	.27
.1000	.9000	243.06	115.14	16.53
2.9000	.0250	121.56	118.06	15.65
.0400	.0880	491.68	434.73	6.68
7.3000	.0220	109.16	248.42	41.64
.0320	.3100	133.81	99.59	13.09
.0090	.1600	69.26	59.70	8.80
36.0000	.1200	290.49	284.39	38.64
.0880	.0440	6.05	1.60	.18
.1400	.0071	49.13	20.49	.53
.1500	.1100	158.29	128.34	17.14
.0093	.0790	120.22	121.02	15.01
.8400	.1100	25.71	7.56	.77
.1100	.0006	200.58	164.47	23.61
.1200	.0110	18.52	9.11	1.15
.0360	.0180	3.31	1.57	.13
2.0000	.0220	198.90	86.41	12.16

END OF INFORMATION ENCOUNTERED.

TABLE 2-17. INSTRUCTIONS AND CORRELATION MATRIX OF ARB10D FILE

```
CLEAR
FILE NAME:
ILLEGAL PARAMETER.

--ANALYST(T=ARB10D)
NUMBER OF DATA COLUMNS TO BE RUN
? 5
VARIABLE                MEAN            VARIANCE        STD. DEV.
 1 = C508 PLANK H2O     3.24207         53.2635          7.29819
 2 = C508 PLANK WET     .711186         3.07136          1.75253
 3 = C713               103.936         15.161.6         123.132
 4 = C714               108.814         32665.2          180.735
 5 = C715               12.0079         239.255          15.4679

THE CORRELATION MATRIX                          NOTE: -[illegible] = -.0510541
```

	(1)	(2)	(3)	(4)	(5)
(1)	1.	--.128095	.361641	.221327	.376528
(2)		1.	--.100556	--5.90511E--2	--1.16358E--2
(3)			1.	.568035	.625751
(4)				1.	.746099
(5)					1.

Variable 1 (first data column) is Total PCB (PLANK H20 PPT)
Variable 2 (second data column) is Total PCB (PLANK WET PPM)
Variable 3 (third data column) is C713 (ZOOPLANKTN samples)
Variable 4 (fourth data column) is C714 (ZOOPLANKTN samples)
Variable 5 (fifth data column) is C715 (ZOOPLANKTN samples)

Step 7; After the data has been obtained or analyzed, all created files must be purged. To purge the file, type:
BATCH, 50000 (CR)
Then type:
PURGE, ARB10C, ARB10B, ARB10C, ARB10T (CR)
PURGE, ARB10D, ARB1, ARB2 (CR)
Then type:
BYE. (CR)

3. CONCLUSION AND RECOMMENDATIONS

A. R. Barskis
Westinghouse Electric Corporation

The Upper Bay Survey Data Base System was a useful and efficient tool for managing, analyzing, and presenting the many kinds of data collected during the survey, the laboratory analyses, the report writing, and the culmination of the project. It has the potential of serving yet broader and more useful purposes as a tool for natural resource management. The first significant limitation encountered was the inevitable lag after field sampling until the analyses were completed and the data points entered in the base.

The Upper Bay Survey Data Base System demands the data be in the correct format prior to its entry into the system. All incorrect data entries are automatically rejected if a data field does not adhere to specification. This requirement is perhaps the biggest limitation of the system, especially when previously created data files which contain many errors and deviations from their specified format are to be entered into the data base. In this case their data master files must be thoroughly screened and all errors must be corrected before they can be entered in the system.

In general, the Upper Bay Survey Data Base met with a high degree of success in achieving the objectives as stated in the proposal and incorporated in the contract. These objectives for the project's automated data processing operations were to:

- Plan, design, and operate an automated data handling system.
- Coordinate and conduct the collection and assembly of all data to be stored and/or processed by computers.
- Provide for storage and rapid retrieval of data for study participants.
- Provide data manipulation, statistical analyses, and correlation capability for study participants.

The data base's management feature facilitated the quick retrieval of any portion of the data and provided an inexpensive method of storing these data when not in use. The data base is easily updated with new data and expanded to provide for new data parameters. In the course of the project, it was demonstrated that it was possible to enter new data items into the system with ease as soon as they became available and to retrieve any part of the archived data for examination, comparison, or analysis.

It was particularly gratifying to demonstrate that these things can be accomplished regularly by the principal investigators and, in many cases, by their assistants and clerical personnel as well, after a minimal period of instruction.

Special data manipulation subroutines were established and stored in the system for report writing, simple statistical calculations, and some elementary multidisciplinary correlations. The success of these demonstrated the capability of the system to produce answers to special questions or to prepare special data tables and reports in response to particular needs and requirements of public agencies and officials concerned with natural resources management. The flexibility of the UBS Data Base in creating data reports in response to *ad hoc* requests for information from various users makes the system highly suited for a wide scope of application.

The scope of Maryland state agencies for which the use of the Upper Bay Survey Data Base was designed include:

- Water Resources Administration
- Coastal Zone Management
- Fisheries Administration
- Power Plant Siting Program
- Geological Survey
- Department of Health and Mental Hygiene
- Department of State Planning
- Environmental Services
- Department of Economic and Community Development

In order to insure a return on its investment, it is strongly recommended that the Maryland Department of Natural Resources promptly incorporate the Upper Bay Survey Data Base within the user organization. With system exercise, its potential capabilities for wider applications will become appreciated. The sophisticated natural resources management being demanded more and more with the passage of each year requires such a high capability data base. It is particularly urged that these initial steps be taken now:

(1) Select appropriate DNR personnel for the essential minimum indoctrination in the use of the data base.

(2) Test the existing data base in its present normal functions, employing the DNR cadre trained in Step (1).

(3) Test the capabilities of the data base for updating and expansion by incorporating an added category of parameters such as heavy metals content of Chesapeake Bay sediments, employing the DNR cadre.

(4) Test the existing capability of the data base in multidisciplinary data correlation and proceed to simplify and improve the capability.

(5) Develop and expand the data base to incorporate data useful to current state problems such as dredge spoil disposal, power plant siting, etc.

4. DATA SUMMARY REPORTS

A. R. Barskis
Westinghouse Electric Corporation

This section presents the raw score data entered into the Upper Bay Survey Data Base. The data are grouped by discipline and arranged in a summary report format, each summary report of a discipline consisting of several parts. A specific line carried through the different parts of the summary report constitutes data on one specific sample. Within each discipline the data are grouped by type of sample, sequenced by station, then within station by date, and finally within date by depth of water at the station where the sample was taken.

The data summary reports presented here by no means incorporate all the data relative to the Upper Bay Survey. The various principal investigators on occasion have pursued certain additional calculations and data manipulations independently; those that they found significant they incorporated in their contributions in Volume II. The appropriate chapters of Volume II should be examined before drawing any numerical inference from the data on the pages that follow.

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
01A	393255	763255	12/13/1973	1427	.0	140	14	5	5.09	.01	.05	.06
01A	393255	760447	12/13/1973	1430	2.0	140	14	5	5.06	.01	.05	.07
01A	393255	760447	12/13/1973	1433	4.0	140	14	5	5.06	.01	.05	.06
01A	393255	760447	12/13/1973	1436	6.0	140	14	5	5.06	.01	.05	.06
01A	393255	760447	12/13/1973	1439	8.0	140	14	5	5.05	.00	.04	.06
01A	393255	760447	12/13/1973	1442	10.0	140	14	5	5.05	.01	.05	.07
01A	393255	760447	12/13/1973	1445	11.0	140	14	5	5.04	.01	.05	.07
01A	393255	760447	01/24/1974	1307	.0		0	6	2.73	.06	.13	.13
01A	393255	760447	01/24/1974	720	.0	0	6	6	2.57	.02	.07	.08
01A	393255	760447	01/24/1974	1305	2.0		0	6	2.71	.05	.11	.12
01A	393255	760447	01/24/1974	718	2.0	0	6	6	2.53	.03	.08	.08
01A	393255	760447	01/24/1974	716	4.0	0	6	6	2.56	.03	.08	.08
01A	393255	760447	01/24/1974	1303	4.0		0	6	2.70	.06	.13	.13
01A	393255	760447	01/24/1974	714	6.0	0	6	6	2.57	.03	.09	.10
01A	393255	760447	01/24/1974	1301	6.0		0	6	2.69	.06	.14	.14
01A	393255	760447	01/24/1974	712	8.0	0	6	6	2.62	.04	.10	.10
01A	393255	760447	01/24/1974	1259	8.0		0	6	2.73	.05	.12	.12
01A	393255	760447	01/24/1974	710	10.0	0	6	6	2.61	.03	.08	.09
01A	393255	760447	01/24/1974	1257	10.0		0	6	2.71	.06	.13	.13
01A	393255	760447	01/24/1974	1255	11.8		0	6	2.68	.04	.11	.11
01A	393255	760447	02/12/1974	1352	.0		0	0	1.14	.04	.09	.05
01A	393255	760447	02/12/1974	1350	2.0		0	0	1.09	.03	.09	.04
01A	393255	760447	02/12/1974	1348	4.0		0	0	1.07	.03	.08	.03
01A	393255	760447	02/12/1974	1346	6.0		0	0	1.05	.04	.09	.04
01A	393255	760447	02/12/1974	1344	8.0		0	0	1.06	.03	.09	.04
01A	393255	760447	02/12/1974	1342	10.0		0	0	1.08	.03	.09	.04
01A	393255	760447	02/12/1974	1340	11.8		0	0	1.16	.02	.07	.03
01A	393255	760447	03/21/1974	1157	.0	320	8	5	5.28	.05	.11	.11
01A	393255	760447	03/21/1974	1155	2.0	320	8	5	5.27	.05	.11	.11
01A	393255	760447	03/21/1974	1153	4.0	320	8	5	5.27	.05	.11	.11
01A	393255	760447	03/21/1974	1151	6.0	320	8	5	5.27	.04	.10	.11
01A	393255	760447	03/21/1974	1149	8.0	320	8	5	5.29	.05	.11	.11
01A	393255	760447	03/21/1974	1147	10.0	320	8	5	5.30	.05	.11	.11
01A	393255	760447	03/21/1974	1145	13.0	320	8	5	5.31	.05	.11	.11
01A	393255	760447	05/03/1974	1107	.0	0	4	0	16.08	.05	.12	-0.91
01A	393255	760447	05/03/1974	1105	2.0	0	4	0	16.04	.05	.12	-0.91
01A	393255	760447	05/03/1974	1103	4.0	0	4	0	16.00	.05	.12	-0.90
01A	393255	760447	05/03/1974	1101	6.0	0	4	0	15.98	.05	.12	-0.90
01A	393255	760447	05/03/1974	1059	8.0	0	4	0	15.96	.05	.12	-0.89
01A	393255	760447	05/03/1974	1057	10.0	0	4	0	15.95	.05	.12	-0.89
01A	393255	760447	05/03/1974	1055	12.0	0	4	0	15.94	.05	.12	-0.89
01A	393255	760447	05/03/1974	1053	12.8	0	4	0	15.93	.05	.12	-0.89
01A	393255	760447	06/13/1974	1242	.0	170	8	0	24.65	.05	.13	-2.71
01A	393255	760447	06/13/1974	1240	2.0	170	8	0	23.42	.05	.13	-2.40
01A	393255	760447	06/13/1974	1238	4.0	170	8	0	23.01	.05	.13	-2.30
01A	393255	760447	06/13/1974	1236	6.0	170	8	0	22.97	.05	.13	-2.29
01A	393255	760447	06/13/1974	1234	8.0	170	8	0	22.94	.05	.13	-2.29
01A	393255	760447	06/13/1974	1232	10.0	170	8	0	22.92	.05	.13	-2.28
01A	393255	760447	06/13/1974	1230	12.7	170	8	0	22.92	.05	.13	-2.28
01A	393255	760447	07/31/1974	1556	.0			0	26.93	.05	.13	-3.31

STAT IOM C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
01A	393255	760447	07/31/1974	1554	2.0			0	26.53	.05	.13	-3.20
01A	393255	760447	07/31/1974	1552	4.0			0	26.50	.05	.13	-3.20
01A	393255	760447	07/31/1974	1550	6.0			0	26.47	.05	.13	-3.19
01A	393255	760447	07/31/1974	1548	8.0			0	26.37	.05	.13	-3.16
01A	393255	760447	07/31/1974	1546	10.0			0	26.28	.05	.13	-3.14
01A	393255	760447	07/31/1974	1544	12.0			0	26.27	.05	.13	-3.13
01A	393255	760447	07/31/1974	1542	14.0			0	26.24	.05	.13	-3.12
01A	393255	760447	07/31/1974	1540	15.0			0	26.24	.05	.13	-3.12
01A	393255	760447	09/20/1974	1002	.0	325	5	4	22.68	.06	.13	-2.22
01A	393255	760447	09/20/1974	959	2.0	325	5	4	22.58	.06	.13	-2.20
01A	393255	760447	09/20/1974	957	4.0	325	5	4	22.57	.06	.13	-2.20
01A	393255	760447	09/20/1974	955	6.0	325	5	4	22.57	.06	.13	-2.20
01A	393255	760447	09/20/1974	952	8.0	325	5	4	22.55	.06	.13	-2.19
01A	393255	760447	09/20/1974	949	10.0	325	5	4	22.51	.06	.13	-2.18
01A	393255	760447	09/20/1974	946	12.0	325	5	4	22.47	.06	.13	-2.17
01A	393255	760447	09/20/1974	943	14.0	325	5	4	22.45	.06	.13	-2.17
01A	393255	760447	09/20/1974	940	16.0	325	5	4	22.44	.06	.13	-2.17
02A	392632	760303	12/14/1973	1257	.0	315	6	2	4.95	.04	.10	.11
02A	392632	760303	12/14/1973	1256	2.0	315	6	2	4.96	.04	.10	.11
02A	392632	760303	12/14/1973	1255	3.5	315	6	2	4.98	.04	.10	.11
02A	392632	760303	01/23/1974	1602	.0		0	1	1.85	.07	.16	.13
02A	392632	760303	01/23/1974	1600	2.3		0	1	1.87	.07	.16	.13
02A	392632	760303	02/12/1974	1247	.0		0	1	.86	.01	.05	.00
02A	392632	760303	02/12/1974	1245	2.6		0	1	.88	.02	.06	.01
02A	392632	760303	03/20/1974	1622	.0	40	4	0	6.17	.02	.07	.06
02A	392632	760303	03/20/1974	1620	2.0	40	4	0	6.16	.02	.07	.06
02A	392632	760303	05/03/1974	754	.0	0	5	5	15.44	.05	.12	-0.81
02A	392632	760303	05/03/1974	752	2.0	0	5	5	15.43	.05	.12	-0.81
02A	392632	760303	05/03/1974	754	3.6	0	5	5	15.42	.05	.12	-0.81
02A	392632	760303	06/13/1974	1402	.0	330	5	0	24.85	.06	.13	-2.75
02A	392632	760303	06/13/1974	1400	1.7	330	5	0	24.71	.06	.13	-2.72
02A	392632	760303	07/31/1974	1427	.0	235	6	0	27.74	.05	.12	-3.54
02A	392632	760303	07/31/1974	1425	2.0	235	6	0	27.37	.05	.13	-3.43
02A	392632	760303	09/20/1974	807	.0	325	5	4	22.81	.07	.15	-2.24
02A	392632	760303	09/20/1974	804	2.0	325	5	4	22.81	.07	.15	-2.24
02A	392632	760303	09/20/1974	801	3.0	325	5	4	22.80	.07	.15	-2.24
02B	392635	760200	12/14/1973	1304	.0	315	12	2	5.05	.04	.10	.11
02B	392635	760200	12/14/1973	1302	2.0	315	12	2	5.07	.04	.10	.11
02B	392635	760200	12/14/1973	1300	4.4	315	12	2	5.14	.04	.10	.11
02B	392635	760200	01/23/1974	1549	.0		0	0	2.16	.07	.16	.14
02B	392635	760200	01/23/1974	1547	2.0		0	0	2.16	.08	.18	.16
02B	392635	760200	01/23/1974	1545	3.2		0	0	2.25	.08	.17	.15
02B	392635	760200	03/20/1974	1604	.0	40	4	0	5.89	.02	.08	.07
02B	392635	760200	03/20/1974	1602	2.0	40	4	0	5.80	.03	.08	.07
02B	392635	760200	03/20/1974	1600	3.2	40	4	0	5.79	.03	.08	.07
02B	392635	760200	05/03/1974	744	.0	0	5	5	16.48	.05	.11	-0.99
02B	392635	760200	05/03/1974	742	2.0	0	5	5	16.48	.05	.11	-0.99
02B	392635	760200	05/03/1974	740	4.4	0	5	5	16.45	.05	.12	-0.98
02B	392635	760200	06/13/1974	1414	.0	280	5	0	25.27	.11	.23	-2.79
02B	392635	760200	06/13/1974	1412	2.0	280	5	0	24.47	.13	.27	-2.55

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
02B	392635	760200	06/13/1974	1410	3.4	280	5	0	24.41	.13	.27	-2.54
02B	392635	760200	07/31/1974	1414	.0	235	5	0	28.38	.05	.13	-3.72
02B	392635	760200	07/31/1974	1412	2.0	235	5	0	27.58	.05	.12	-3.49
02B	392635	760200	07/31/1974	1410	3.5	235	5	0	27.06	.07	.15	-3.33
02B	392635	760200	09/20/1974	859	.0	325	5	4	22.78	.06	.14	-2.24
02B	392635	760200	09/20/1974	757	2.0	325	5	4	22.76	.06	.14	-2.23
02B	392635	760200	09/20/1974	755	4.0	325	5	4	22.74	.06	.14	-2.23
02C	392636	755949	12/14/1973	1320	.0	315	10	2	4.71	.06	.13	.14
02C	392636	755949	12/14/1973	1318	2.0	315	10	2	4.67	.08	.18	.17
02C	392636	755949	12/14/1973	1316	4.0	315	10	2	4.67	.08	.18	.18
02C	392636	755949	12/14/1973	1314	6.0	315	10	2	4.70	.09	.20	.19
02C	392636	755949	12/14/1973	1312	8.0	315	10	2	4.80	.18	.35	.31
02C	392636	755949	12/14/1973	1310	10.0	315	10	2	4.88	.25	.48	.42
02C	392636	755949	01/23/1974	1535	.0		0	0	1.91	.07	.17	.14
02C	392636	755949	01/23/1974	1533	2.0		0	0	1.79	.08	.17	.14
02C	392636	755949	01/23/1974	1531	4.0		0	0	1.76	.08	.18	.15
02C	392636	755949	01/23/1974	1529	6.0		0	0	1.74	.08	.18	.15
02C	392636	755949	01/23/1974	1527	8.0		0	0	1.73	.09	.19	.15
02C	392636	755949	01/23/1974	1525	9.0		0	0	1.85	.08	.17	.14
02C	392636	755949	02/14/1974	1220	.0		0	0	1.15	.04	.09	.05
02C	392636	755949	02/14/1974	1218	2.0		0	0	1.07	.03	.09	.04
02C	392636	755949	02/14/1974	1216	4.0		0	0	.99	.03	.09	.03
02C	392636	755949	02/14/1974	1214	6.0		0	0	.99	.04	.09	.04
02C	392636	755949	02/14/1974	1212	8.0		0	0	.95	.04	.11	.05
02C	392636	755949	02/14/1974	1210	10.0		0	0	1.06	.03	.09	.04
02C	392636	755949	03/20/1974	1538	.0	40	4	0	5.59	.03	.08	.08
02C	392636	755949	03/20/1974	1536	2.0	40	4	0	5.26	.03	.08	.09
02C	392636	755949	03/20/1974	1534	4.0	40	4	0	5.25	.03	.08	.09
02C	392636	755949	03/20/1974	1532	6.0	40	4	0	5.26	.03	.09	.10
02C	392636	755949	03/20/1974	1530	9.0	40	4	0	5.25	.03	.08	.09
02C	392636	755949	05/03/1974	722	.0	0	4	5	17.28	.05	.11	-1.12
02C	392636	755949	05/03/1974	720	2.0	0	4	5	17.34	.05	.11	-1.14
02C	392636	755949	05/03/1974	718	4.0	0	4	5	17.35	.05	.11	-1.14
02C	392636	755949	05/03/1974	716	6.0	0	4	5	17.37	.04	.11	-1.14
02C	392636	755949	05/03/1974	714	8.0	0	4	5	17.37	.05	.11	-1.14
02C	392636	755949	05/03/1974	712	10.0	0	4	5	17.38	.05	.11	-1.14
02C	392636	755949	05/03/1974	710	11.3	0	4	5	17.37	.05	.11	-1.14
02C	392636	755949	06/13/1974	1430	.0	280	5	0	25.72	.20	.39	-2.79
02C	392636	755949	06/13/1974	1428	2.0	280	5	0	24.52	.25	.47	-2.41
02C	392636	755949	06/13/1974	1426	4.0	280	5	0	24.25	.26	.50	-2.33
02C	392636	755949	06/13/1974	1424	6.0	280	5	0	24.24	.27	.51	-2.31
02C	392636	755949	06/13/1974	1422	8.0	280	5	0	24.23	.27	.52	-2.31
02C	392636	755949	06/13/1974	1420	10.4	280	5	0	24.21	.28	.54	-2.29
02C	392636	755949	07/31/1974	1400	.0	235	4	0	27.38	.52	.97	-2.80
02C	392636	755949	07/31/1974	1358	2.0	235	4	0	26.43	.55	1.03	-2.50
02C	392636	755949	07/31/1974	1356	4.0	235	4	0	26.21	.56	1.05	-2.42
02C	392636	755949	07/31/1974	1354	6.0	235	4	0	26.18	.57	1.05	-2.41
02C	392636	755949	07/31/1974	1352	8.0	235	4	0	26.13	.57	1.06	-2.39
02C	392636	755949	07/31/1974	1350	10.0	235	4	0	26.13	.57	1.06	-2.39
02C	392636	755949	09/20/1974	745	.0	325	5	4	23.29	.43	.80	-1.86

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
02C	392636	755949	09/20/1974	743	2.0	325	5	4	23.30	.43	.81	-1.86
02C	392636	755949	09/20/1974	741	4.0	325	5	4	23.30	.44	.82	-1.85
02C	392636	755949	09/20/1974	739	6.0	325	5	4	23.31	.44	.82	-1.86
02C	392636	755949	09/20/1974	737	8.0	325	5	4	23.30	.44	.82	-1.85
02C	392636	755949	09/20/1974	735	10.0	325	5	4	23.31	.44	.82	-1.86
03A	392410	760607	12/14/1973	1239	.0	315	6	2	4.90	.04	.10	.11
03A	392410	760607	12/14/1973	1237	2.0	315	6	2	4.89	.04	.11	.12
03A	392410	760607	12/14/1973	1235	3.5	315	6	2	5.00	.04	.11	.11
03A	392410	760607	01/23/1974	1422	.0	290	2	0	1.61	.07	.16	.12
03A	392410	760607	01/23/1974	1420	2.3	290	2	0	1.58	.09	.18	.14
03A	392410	760607	02/12/1974	1132	.0	240	5	0	1.22	.12	.25	.18
03A	392410	760607	02/12/1974	1130	2.3	240	5	0	1.23	.13	.26	.19
03A	392410	760607	03/20/1974	1452	.0	40	6	0	5.89	.02	.08	.07
03A	392410	760607	03/20/1974	1450	2.0	40	6	0	5.53	.03	.08	.08
03A	392410	760607	05/02/1974	1439	.0	135	8	1	17.17	.05	.12	-1.10
03A	392410	760607	05/02/1974	1437	2.0	135	8	1	17.15	.05	.12	-1.10
03A	392410	760607	05/02/1974	1435	2.7	135	8	1	17.11	.05	.12	-1.09
03A	392410	760607	06/13/1974	1534	.0	280	9	0	24.12	.38	.72	-2.13
03A	392410	760607	06/13/1974	1532	2.0	280	9	0	23.66	.35	.67	-2.05
03A	392410	760607	06/13/1974	1530	3.5	280	9	0	23.65	.36	.68	-2.04
03A	392410	760607	07/31/1974	1309	.0			0	26.56	.57	1.06	-2.51
03A	392410	760607	07/31/1974	1307	2.0			0	25.87	.76	1.40	-2.07
03A	392410	760607	07/31/1974	1305	3.5			0	25.77	.82	1.51	-1.96
03A	392410	760607	09/19/1974	1214	.0			0	23.89	.63	1.17	-1.73
03A	392410	760607	09/19/1974	1212	2.0			0	23.16	.69	1.28	-1.47
03A	392410	760607	09/19/1974	1210	3.5			0	23.16	.71	1.32	-1.44
03A	392410	760607	11/27/1974	747	.0	270	12	0	4.89	.35	.66	.55
03A	392410	760607	11/27/1974	745	2.6	270	12	0	4.83	.35	.67	.56
03B	392302	760530	12/14/1973	1232	.0	315	6	2	4.77	.08	.18	.18
03B	392302	760530	12/14/1973	1230	2.0	315	6	2	4.76	.09	.20	.19
03B	392302	760530	12/14/1973	1228	4.0	315	6	2	4.68	.10	.21	.20
03B	392302	760530	12/14/1973	1226	6.0	315	6	2	4.65	.11	.22	.21
03B	392302	760530	12/14/1973	1224	8.0	315	6	2	4.66	.11	.22	.21
03B	392302	760530	12/14/1973	1222	10.0	315	6	2	4.68	.11	.22	.21
03B	392302	760530	12/14/1973	1220	11.0	315	6	2	4.71	.11	.24	.22
03B	392302	760530	01/23/1974	1445	.0	190	2	0	1.53	.08	.17	.12
03B	392302	760530	01/23/1974	1443	2.0	190	2	0	1.51	.07	.16	.12
03B	392302	760530	01/23/1974	1441	4.0	190	2	0	1.49	.07	.15	.11
03B	392302	760530	01/23/1974	1439	6.0	190	2	0	1.47	.10	.21	.16
03B	392302	760530	01/23/1974	1437	8.0	190	2	0	1.47	.09	.18	.14
03B	392302	760530	01/23/1974	1435	9.3	190	2	0	1.53	.08	.18	.13
03B	392302	760530	02/12/1974	1110	.0	240	7	0	.93	.14	.27	.18
03B	392302	760530	02/12/1974	1108	2.0	240	7	0	.87	.15	.29	.20
03B	392302	760530	02/12/1974	1106	4.0	240	7	0	1.07	.36	.69	.52
03B	392302	760530	02/12/1974	1104	6.0	240	7	0	1.11	.38	.71	.55
03B	392302	760530	02/12/1974	1102	8.0	240	7	0	1.28	.40	.75	.58
03B	392302	760530	02/12/1974	1100	10.5	240	7	0	1.29	.42	.78	.61
03B	392302	760530	03/20/1974	1439	.0	40	6	0	6.38	.02	.07	.05
03B	392302	760530	03/20/1974	1437	2.0	40	6	0	5.67	.03	.08	.08
03B	392302	760530	03/20/1974	1435	4.0	40	6	0	5.59	.03	.08	.08

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
03B	392302	760530	03/20/1974	1433	6.0	40	6	0	5.58	.03	.08	.08
03B	392302	760530	03/20/1974	1431	8.0	40	6	0	5.58	.03	.08	.08
03B	392302	760530	03/20/1974	1429	9.5	40	6	0	5.57	.03	.08	.08
03B	392302	760530	05/02/1974	1417	.0	120	7	1	17.72	.05	.12	-1.20
03B	392302	760530	05/02/1974	1415	2.0	120	7	1	17.60	.02	.07	-1.21
03B	392302	760530	05/02/1974	1413	4.0	120	7	1	17.56	.02	.06	-1.21
03B	392302	760530	05/02/1974	1411	6.0	120	7	1	17.52	.02	.06	-1.20
03B	392302	760530	05/02/1974	1409	8.0	120	7	1	17.52	.02	.06	-1.20
03B	392302	760530	05/02/1974	1407	10.0	120	7	1	17.50	.02	.07	-1.20
03B	392302	760530	05/02/1974	1405	10.8	120	7	1	17.47	.02	.07	-1.19
03B	392302	760530	06/13/1974	1515	.0	280	9	0	25.04	.41	.77	-2.33
03B	392302	760530	06/13/1974	1513	2.0	280	9	0	23.29	.48	.91	-1.78
03B	392302	760530	06/13/1974	1511	4.0	280	9	0	22.71	.82	1.51	-1.19
03B	392302	760530	06/13/1974	1509	6.0	280	9	0	22.69	.83	1.54	-1.16
03B	392302	760530	06/13/1974	1507	8.0	280	9	0	22.69	.86	1.59	-1.12
03B	392302	760530	06/13/1974	1505	10.6	280	9	0	22.66	.90	1.65	-1.08
03B	392302	760530	07/31/1974	1255	.0			0	26.79	.64	1.18	-2.48
03B	392302	760530	07/31/1974	1253	2.0			0	25.87	.86	1.58	-1.93
03B	392302	760530	07/31/1974	1251	4.0			0	25.76	1.23	2.25	-1.40
03B	392302	760530	07/31/1974	1249	6.0			0	25.63	1.37	2.51	-1.17
03B	392302	760530	07/31/1974	1247	8.0			0	25.60	1.43	2.62	-1.08
03B	392302	760530	07/31/1974	1245	10.2			0	25.55	1.69	3.08	-0.72
03B	392302	760530	09/19/1974	1230	.0			0	23.13	1.07	1.96	-0.95
03B	392302	760530	09/19/1974	1228	2.0			0	23.12	1.12	2.05	-0.88
03B	392302	760530	09/19/1974	1226	4.0			0	23.11	1.14	2.09	-0.84
03B	392302	760530	09/19/1974	1224	6.0			0	23.11	1.14	2.09	-0.84
03B	392302	760530	09/19/1974	1222	8.0			0	23.11	1.15	2.10	-0.84
03B	392302	760530	09/19/1974	1220	10.0			0	23.12	1.15	2.10	-0.84
03B	392302	760530	11/27/1974	730	.0	270	12	0	5.78	.29	.55	.45
03B	392302	760530	11/27/1974	728	2.0	270	12	0	6.03	.37	.69	.55
03B	392302	760530	11/27/1974	726	4.0	270	12	0	6.62	.78	1.44	1.12
03B	392302	760530	11/27/1974	724	6.0	270	12	0	6.71	.88	1.61	1.25
03B	392302	760530	11/27/1974	722	8.0	270	12	0	6.87	1.04	1.91	1.48
03B	392302	760530	11/27/1974	720	10.5	270	12	0	7.19	1.93	3.51	2.73
03C	392234	760513	12/14/1973	1218	.0	300	5	2	4.63	.12	.25	.23
03C	392234	760513	12/14/1973	1217	2.0	300	5	2	4.63	.12	.25	.23
03C	392234	760513	12/14/1973	1216	4.0	300	5	2	4.66	.12	.24	.23
03C	392234	760513	12/14/1973	1215	5.3	300	5	2	4.73	.12	.24	.23
03C	392234	760513	01/23/1974	1361	.0	190		0	2.29	.07	.16	.14
03C	392234	760513	01/23/1974	1359	2.0	190		0	1.96	.09	.20	.17
03C	392234	760513	01/23/1974	1357	4.0	190		0	1.97	.10	.21	.17
03C	392234	760513	01/23/1974	1355	5.0	190		0	1.94	.09	.20	.16
03C	392234	760513	02/12/1974	1051	.0	250	4	0	1.16	.17	.33	.24
03C	392234	760513	02/12/1974	1049	2.0	250	4	0	.95	.18	.35	.25
03C	392234	760513	02/12/1974	1047	4.0	250	4	0	.95	.20	.39	.28
03C	392234	760513	02/12/1974	1045	5.6	250	4	0	.99	.21	.41	.30
03C	392234	760513	03/20/1974	1421	.0	40	6	0	5.22	.03	.08	.09
03C	392234	760513	03/20/1974	1419	2.0	40	6	0	5.17	.03	.08	.09
03C	392234	760513	03/20/1974	1417	4.0	40	6	0	4.84	.03	.08	.09
03C	392234	760513	03/20/1974	1415	5.0	40	6	0	4.82	.02	.07	.09

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
03C	392234	760513	05/02/1974	1341	.0	120	7	0	17.46	.05	.13	-1.14
03C	392234	760513	05/02/1974	1339	2.0	120	7	0	17.26	.03	.08	-1.15
03C	392234	760513	05/02/1974	1337	4.0	120	7	0	17.22	.03	.08	-1.14
03C	392234	760513	05/02/1974	1335	5.0	120	7	0	17.20	.04	.10	-1.12
03C	392234	760513	06/13/1974	1504	.0	300	9	0	24.93	.27	.51	-2.49
03C	392234	760513	06/13/1974	1502	2.0	300	9	0	23.79	.35	.67	-2.08
03C	392234	760513	06/13/1974	1500	3.3	300	9	0	23.35	.48	.89	-1.81
03C	392234	760513	07/31/1974	1241	.0			0	28.61	.72	1.34	-2.88
03C	392234	760513	07/31/1974	1239	2.0			0	26.25	.99	1.82	-1.85
03C	392234	760513	07/31/1974	1237	4.0			0	25.92	1.05	1.93	-1.68
03C	392234	760513	07/31/1974	1235	6.0			0	25.88	1.07	1.96	-1.65
03C	392234	760513	09/19/1974	1241	.0			0	23.84	.90	1.65	-1.36
03C	392234	760513	09/19/1974	1239	2.0			0	23.42	.88	1.61	-1.28
03C	392234	760513	09/19/1974	1237	4.0			0	23.20	.93	1.71	-1.16
03C	392234	760513	09/19/1974	1235	6.0			0	23.20	.95	1.75	-1.12
03C	392234	760513	11/27/1974	711	.0	270	12	0	5.59	.21	.41	.35
03C	392334	760513	11/27/1974	709	2.0	270	12	0	5.74	.29	.56	.46
03C	392334	760513	11/27/1974	707	4.0	270	12	0	5.72	.34	.65	.53
03C	392334	760513	11/27/1974	705	5.4	270	12	0	5.77	.34	.65	.53
04A	92120	761058	12/14/1973	1141	.0	300	5	2	4.36	.04	.10	.12
04A	92120	761058	12/14/1973	1139	2.0	300	5	2	4.36	.04	.11	.12
04A	92120	761058	12/14/1973	1138	4.0	300	5	2	4.39	.05	.12	.13
04A	92120	761058	12/14/1973	1137	6.0	300	5	2	4.41	.06	.14	.15
04A	92120	761058	12/14/1973	1135	7.4	300	5	2	4.49	.07	.15	.16
04A	392120	761058	01/23/1974	1316	.0	240	4	0	2.17	.15	.30	.25
04A	392120	761058	01/23/1974	1314	2.0	240	4	0	2.13	.15	.30	.25
04A	392120	761058	01/23/1974	1312	4.0	240	4	0	1.85	.16	.33	.27
04A	392120	761058	01/23/1974	1310	6.6	240	4	0	1.70	.32	.60	.48
04A	392120	761058	02/12/1974	926	.0	240	2	2	1.09	.37	.70	.54
04A	392120	761058	02/12/1974	924	2.0	240	2	2	1.06	.47	.88	.68
04A	392120	761058	02/12/1974	922	4.0	240	2	2	1.04	.47	.89	.69
04A	392120	761058	02/12/1974	920	6.4	240	2	2	1.08	.56	1.04	.81
04A	392120	761058	03/20/1974	1246	.0	40	8	1	6.11	.03	.09	.07
04A	392120	761058	03/20/1974	1244	2.0	40	8	1	5.98	.03	.09	.08
04A	392120	761058	03/20/1974	1242	4.0	40	8	1	5.89	.05	.12	.10
04A	392120	761058	03/20/1974	1240	6.5	40	8	1	5.89	.06	.13	.11
04A	392120	761058	05/02/1974	1308	.0	135	4	0	16.80	.04	.10	-1.05
04A	392120	761058	05/02/1974	1306	2.0	135	4	0	16.62	.01	.06	-1.05
04A	392120	761058	05/02/1974	1304	4.0	135	4	0	16.58	.02	.06	-1.04
04A	392120	761058	05/02/1974	1302	6.0	135	4	0	16.55	.02	.06	-1.04
04A	392120	761058	05/02/1974	1300	6.9	135	4	0	16.50	.02	.07	-1.03
04A	392120	761058	06/13/1974	1606	.0	225	7	0	24.06	.87	1.60	-1.45
04A	392120	761058	06/13/1974	1604	2.0	225	7	0	23.02	.91	1.67	-1.14
04A	392120	761058	06/13/1974	1602	4.0	225	7	0	22.05	1.82	3.32	.33
04A	392120	761058	06/13/1974	1600	6.3	225	7	0	21.35	2.60	4.72	1.56
04A	392120	761058	07/31/1974	1201	.0			0	26.99	.99	1.82	-2.06
04A	392120	761058	07/31/1974	1159	2.0			0	26.69	1.09	1.99	-1.85
04A	392120	761058	07/31/1974	1157	4.0			0	26.57	1.16	2.12	-1.71
04A	392120	761058	07/31/1974	1155	5.4			0	26.52	1.18	2.16	-1.67
04A	392120	761058	09/19/1974	1113	.0		4	0	23.09	1.51	2.75	-0.34

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STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
04A	392120	761058	09/19/1974	1111	2.0		4	0	23.09	1.52	2.77	-0.32
04A	392120	761058	09/19/1974	1104	4.0		4	0	23.10	1.65	3.01	-0.15
04A	392120	761058	09/19/1974	1107	6.0		4	0	23.10	1.83	3.33	-0.09
04A	392120	761058	09/19/1974	1105	8.0		4	0	23.12	1.81	3.30	-0.07
04A	392120	761058	11/27/1974	839	.0	270	12	0	6.01	1.07	1.97	1.57
04A	392120	761058	11/27/1974	837	2.0	270	12	0	6.19	1.35	2.47	1.96
04A	392120	761058	11/27/1974	835	4.0	270	12	0	7.28	2.74	4.97	3.87
04A	392120	761058	11/27/1974	832	6.0	270	12	0	7.54	3.17	5.75	4.47
04A	392120	761058	11/27/1974	830	7.0	270	12	0	7.59	3.41	6.18	4.80
04B	92052	761022	12/14/1973	1152	.0	300	4	2	4.61	.08	.18	.18
04B	92052	761022	12/14/1973	1150	2.0	300	4	2	4.65	.09	.19	.19
04B	92052	761022	12/14/1973	1148	4.0	300	4	2	4.74	.12	.25	.23
04B	92052	761022	12/14/1973	1146	6.0	300	4	2	4.89	.18	.35	.31
04B	92052	761022	12/14/1973	1144	8.0	300	4	2	5.00	.24	.46	.39
04B	92052	761022	12/14/1973	1142	10.0	300	4	2	5.03	.24	.46	.39
04B	92052	761022	12/14/1973	1140	11.3	300	4	2	5.03	.24	.47	.40
04B	392052	761022	01/23/1974	1260	.0	240	6		1.98	.15	.29	.24
04B	392052	761022	01/23/1974	1258	2.0	240	6		1.93	.14	.28	.23
04B	392052	761022	01/23/1974	1256	4.0	240	6		1.64	.26	.50	.40
04B	392052	761022	01/23/1974	1254	6.0	240	6		1.65	.89	1.63	1.31
04B	392052	761022	01/23/1974	1252	8.0	240	6		1.69	1.06	1.94	1.57
04B	392052	761022	01/23/1974	1250	10.0	240	6		1.80	1.38	2.52	2.03
04B	392052	761022	02/12/1974	955	.0	240	2	2	1.67	.65	1.20	.97
04B	392052	761022	02/12/1974	953	2.0	240	2	2	1.36	.90	1.66	1.32
04B	392052	761022	02/12/1974	951	4.0	240	2	2	1.47	1.02	1.87	1.50
04B	392052	761022	02/12/1974	949	6.0	240	2	2	1.48	1.02	1.88	1.50
04B	392052	761022	02/12/1974	947	8.0	240	2	2	1.55	1.09	2.00	1.61
04B	392052	761022	02/12/1974	945	10.0	240	2	2	1.57	1.11	2.04	1.64
04B	392052	761022	03/20/1974	1350	.0	40	7	0	5.47	.03	.08	.09
04B	392052	761022	03/20/1974	1348	2.0	40	7	0	5.35	.03	.08	.09
04B	392052	761022	03/20/1974	1346	4.0	40	7	0	5.26	.03	.08	.09
04B	392052	761022	03/20/1974	1344	6.0	40	7	0	5.26	.03	.08	.09
04B	392052	761022	03/20/1974	1342	8.0	40	7	0	5.22	.03	.09	.10
04B	392052	761022	03/20/1974	1340	9.5	40	7	0	5.16	.03	.09	.10
04B	392052	761022	05/02/1974	1242	.0	135	4	0	17.09	.05	.12	-1.08
04B	392052	761022	05/02/1974	1240	2.0	135	4	0	16.93	.02	.07	-1.10
04B	392052	761022	05/02/1974	1238	4.0	135	4	0	16.91	.02	.07	-1.10
04B	392052	761022	05/02/1974	1236	6.0	135	4	0	16.90	.02	.07	-1.09
04B	392052	761022	05/02/1974	1234	8.0	135	4	0	16.89	.02	.07	-1.09
04B	392052	761022	05/02/1974	1232	10.0	135	4	0	16.89	.03	.08	-1.08
04B	392052	761022	05/02/1974	1230	11.0	135	4	0	16.86	.03	.08	-1.08
04B	392052	761022	06/13/1974	1620	.0	225	7	0	23.98	1.04	1.92	-1.19
04B	392052	761022	06/13/1974	1618	2.0	225	7	0	22.79	1.31	2.39	-0.54
04B	392052	761022	06/13/1974	1616	4.0	225	7	0	22.29	1.60	2.91	-0.03
04B	392052	761022	06/13/1974	1614	6.0	225	7	0	21.66	2.21	4.02	.95
04B	392052	761022	06/13/1974	1612	8.0	225	7	0	21.54	2.36	4.30	1.19
04B	392052	761022	06/13/1974	1610	10.8	225	7	0	21.44	2.51	4.56	1.41
04B	392052	761022	07/31/1974	1150	.0			0	26.94	1.20	2.20	-1.76
04B	392052	761022	07/31/1974	1148	2.0			0	25.95	1.50	2.74	-1.08
04B	392052	761022	07/31/1974	1146	4.0			0	25.72	1.97	3.58	-0.39

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
04B	392052	761022	07/31/1974	1144	6.0			0	25.59	2.19	3.99	-0.05
04B	392052	761022	07/31/1974	1142	8.0			0	25.52	2.36	4.29	-0.19
04B	392052	761022	07/31/1974	1140	10.5			0	25.51	2.50	4.54	-0.38
04B	392052	761022	09/19/1974	1127	.0			0	23.54	1.50	2.73	-0.47
04B	392052	761022	09/19/1974	1125	2.0			0	23.14	1.78	3.25	.02
04B	392052	761022	09/19/1974	1123	4.0			0	23.14	1.84	3.35	.10
04B	392052	761022	09/19/1974	1121	6.0			0	23.14	1.87	3.41	.14
04B	392052	761022	09/19/1974	1119	8.0			0	23.14	1.87	3.41	.15
04B	392052	761022	09/19/1974	1117	10.0			0	23.13	1.89	3.45	.17
04B	392052	761022	09/19/1974	1115	11.0			0	23.13	1.91	3.48	.20
04B	392052	761022	11/27/1974	855	.0	270	8	0	6.00	1.08	1.99	1.58
04B	392052	761022	11/27/1974	853	2.0	270	8	0	6.07	1.02	1.88	1.49
04B	392052	761022	11/27/1974	851	4.0	270	8	0	6.11	1.34	2.45	1.95
04B	392052	761022	11/27/1974	849	6.0	270	8	0	6.88	2.12	3.86	3.02
04B	392052	761022	11/27/1974	847	8.0	270	8	0	7.67	3.31	6.00	4.66
04B	392052	761022	11/27/1974	845	10.5	270	8	0	8.05	4.39	7.96	6.16
04C	92018	760940	12/14/1973	1159	.0	300	5	2	5.10	.19	.38	.33
04C	92018	760940	12/14/1973	1158	2.0	300	5	2	5.10	.20	.39	.34
04C	92018	760940	12/14/1973	1156	4.0	300	5	2	5.12	.22	.42	.37
04C	92018	760940	12/14/1973	1155	5.3	300	5	2	5.14	.24	.46	.39
04C	392018	760940	01/23/1974	1239	.0	240	8	0	1.86	.43	.81	.65
04C	392018	760940	01/23/1974	1237	2.0	240	8	0	1.82	.46	.86	.70
04C	392018	760940	01/23/1974	1235	4.2	240	8	0	1.78	.50	.94	.76
04C	392018	760940	02/12/1974	1011	.0	240	0	0	1.41	1.13	2.06	1.65
04C	392018	760940	02/12/1974	1009	2.0	240	0	0	1.37	1.13	2.06	1.65
04C	392018	760940	02/12/1974	1007	4.0	240	0	0	1.32	1.16	2.12	1.69
04C	392018	760940	02/12/1974	1005	5.0	240	0	0	1.45	1.16	2.13	1.71
04C	392018	760940	03/20/1974	1316	.0	40	8	1	5.48	.04	.10	.10
04C	392018	760940	03/20/1974	1314	2.0	40	8	1	5.40	.04	.10	.10
04C	392018	760940	03/20/1974	1312	4.0	40	8	1	5.36	.04	.10	.10
04C	392018	760940	03/20/1974	1310	5.5	40	8	1	5.35	.04	.10	.10
04C	392018	790940	05/02/1974	1221	.0	135	4	0	16.69	.06	.14	-1.00
04C	392018	790940	05/02/1974	1219	2.0	135	4	0	16.56	.04	.10	-1.01
04C	392018	790940	05/02/1974	1217	4.0	135	4	0	16.50	.04	.10	-1.00
04C	392018	790940	05/02/1974	1215	6.0	135	4	0	16.45	.04	.10	-0.99
04C	392018	760940	06/13/1974	1629	.0	225	7	0	23.77	.80	1.48	-1.47
04C	392018	760940	06/13/1974	1627	2.0	225	7	0	23.28	.88	1.61	-1.25
04C	392018	760940	06/13/1974	1625	3.4	225	7	0	23.12	.90	1.66	-1.17
04C	392018	760940	07/31/1974	1136	.0				26.73	1.91	3.47	-0.75
04C	392018	760940	07/31/1974	1134	2.0				25.79	1.94	3.54	-0.44
04C	392018	760940	07/31/1974	1132	4.0				25.75	1.97	3.59	-0.39
04C	392018	760940	07/31/1974	1130	5.6				25.74	1.99	3.62	-0.36
04C	392018	760940	09/19/1974	1139	.0			0	23.49	1.52	2.77	-0.43
04C	392018	760940	09/19/1974	1137	2.0			0	23.09	1.71	3.11	-0.07
04C	392018	760940	09/19/1974	1135	4.0			0	23.13	1.97	3.59	.28
04C	392018	760940	09/19/1974	1133	6.0			0	23.12	2.06	3.75	.40
04C	392018	760940	11/27/1974	906	.0	270	8	0	5.37	.37	.71	.58
04C	392018	760940	11/27/1974	904	2.0	270	8	0	5.43	.30	.57	.48
04C	392018	760940	11/27/1974	902	4.0	270	8	0	5.69	.99	1.81	1.45
04C	392018	760940	11/27/1974	900	5.8	270	8	0	5.90	1.04	1.90	1.52

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
05A	391637	761522	12/14/1973	1053	.0	300	6	2	5.58	.65	1.21	.98
05A	391637	761522	12/14/1973	1040	.0	135	15	1	5.75	.90	1.65	1.32
05A	391637	761522	12/14/1973	1038	2.0	135	15	1	5.75	.92	1.69	1.36
05A	391637	761522	12/14/1973	1051	2.0	300	6	2	5.58	.66	1.22	.99
05A	391637	761522	12/14/1973	1049	4.0	300	6	2	5.58	.64	1.19	.96
05A	391637	761522	12/14/1973	1036	4.0	135	15	1	5.75	.94	1.72	1.38
05A	391637	761522	12/14/1973	1048	6.0	300	6	2	5.58	.68	1.26	1.02
05A	391637	761522	12/14/1973	1034	6.0	135	15	1	5.78	1.03	1.89	1.51
05A	391637	761522	12/14/1973	1046	8.0	300	6	2	5.59	.71	1.31	1.06
05A	391637	761522	12/14/1973	1032	8.0	135	15	1	5.78	1.04	1.90	1.52
05A	391637	761522	12/14/1973	1045	10.0	300	6	2	5.59	.68	1.26	1.02
05A	391637	761522	12/14/1973	1030	10.0	135	15	1	5.78	1.18	2.16	1.73
05A	391637	761522	01/23/1974	1063	.0	240	5	0	2.49	1.91	3.48	2.82
05A	391637	761522	01/23/1974	1061	2.0	240	5	0	2.38	2.17	3.95	3.20
05A	391637	761522	01/23/1974	1059	4.0	240	5	0	2.40	2.26	4.10	3.32
05A	391637	761522	01/23/1974	1057	6.0	240	5	0	2.37	2.31	4.20	3.39
05A	391637	761522	01/23/1974	1055	8.3	240	5	0	2.40	2.71	4.92	3.97
05A	391637	761522	01/24/1974	938	.0	15	7	2	2.82	.99	1.83	1.49
05A	391637	761522	01/24/1974	936	2.0	15	7	2	3.01	1.12	2.04	1.67
05A	391637	761522	01/24/1974	934	4.0	15	7	2	3.07	1.34	2.54	2.00
05A	391637	761522	01/24/1974	932	6.0	15	7	2	3.12	1.37	2.51	2.04
05A	391637	761522	01/24/1974	930	7.5	15	7	2	3.25	1.39	2.54	2.07
05A	391637	761522	02/12/1974	845	.0	220	3	2	1.65	2.13	3.88	3.12
05A	391637	761522	02/12/1974	843	2.0	220	3	2	1.63	2.13	3.88	3.12
05A	391637	761522	02/12/1974	841	4.0	220	3	2	1.65	2.13	3.88	3.12
05A	391637	761522	02/12/1974	839	6.0	220	3	2	1.72	2.30	4.18	3.37
05A	391637	761522	02/12/1974	837	8.0	220	3	2	1.70	2.23	4.06	3.27
05A	391637	761522	02/12/1974	835	10.0	220	3	2	1.71	2.26	4.11	3.31
05A	391637	761522	03/20/1974	1125	.0	40	10	1	5.76	.32	.61	.50
05A	391637	761522	03/20/1974	1123	2.0	40	10	1	5.68	.32	.61	.50
05A	391637	761522	03/20/1974	1121	4.0	40	10	1	5.66	.33	.63	.51
05A	391637	761522	03/20/1974	1119	6.0	40	10	1	5.65	.33	.62	.51
05A	391637	761522	03/20/1974	1117	8.0	40	10	1	5.63	.38	.71	.58
05A	391637	761522	03/20/1974	1115	10.5	40	10	1	5.60	.37	.70	.57
05A	391637	761522	03/21/1974	755	.0	40	3		5.86	.53	.98	.79
05A	391637	761522	03/21/1974	753	2.0	40	3		5.90	.57	1.07	.86
05A	391637	761522	03/21/1974	751	4.0	40	3		5.91	.59	1.10	.88
05A	391637	761522	03/21/1974	749	6.0	40	3		5.91	.62	1.15	.92
05A	391637	761522	03/21/1974	747	7.5	40	3		5.92	1.15	2.11	1.68
05A	391637	761522	03/21/1974	745	8.0	40	3		5.92	1.32	2.40	1.92
05A	391637	761522	05/02/1974	1115	.0	45	5	1	16.00	.24	.46	-0.64
05A	391637	761522	05/02/1974	1113	2.0	45	5	1	15.84	.29	.56	-0.54
05A	391637	761522	05/02/1974	1111	4.0	45	5	1	15.52	.42	.78	-0.32
05A	391637	761522	05/02/1974	1109	6.0	45	5	1	15.00	1.09	1.99	.70
05A	391637	761522	05/02/1974	1107	8.0	45	5	1	13.59	2.59	4.70	3.00
05A	391637	761522	05/02/1974	1105	10.0	45	5	1	12.67	3.38	6.13	4.23
05A	391637	761522	05/03/1974	731	.0	75	1	5	14.94	.70	1.29	.17
05A	391637	761522	05/03/1974	729	2.0	75	1	5	14.96	.70	1.29	.16
05A	391637	761522	05/03/1974	727	4.0	75	1	5	14.92	.78	1.43	.28
05A	391637	761522	05/03/1974	725	6.5	75	1	5	14.82	.83	1.53	.37

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
05A	391637	761522	06/13/1974	753	.0	25	5	1	22.14	1.44	2.63	-0.21
05A	391637	761522	06/13/1974	751	2.0	25	5	1	22.11	1.50	2.74	-0.12
05A	391637	761522	06/13/1974	749	4.0	25	5	1	22.02	1.63	2.97	.08
05A	391637	761522	06/13/1974	747	6.0	25	5	1	21.98	1.69	3.08	.17
05A	391637	761522	06/13/1974	745	7.0	25	5	1	22.02	1.71	3.11	.18
05A	391637	761522	06/14/1974	808	.0	150	3	1	22.34	1.71	3.11	.11
05A	391637	761522	06/14/1974	806	2.0	150	3	1	22.30	1.74	3.18	.17
05A	391637	761522	06/14/1974	804	4.0	150	3	1	22.13	1.98	3.61	.53
05A	391637	761522	06/14/1974	802	6.0	150	3	1	22.03	2.13	3.88	.76
05A	391637	761522	06/14/1974	800	8.0	150	3	1	21.59	2.68	4.87	1.61
05A	391637	761522	07/31/1974	1021	.0	235	4	0	26.78	2.62	4.76	.20
05A	391637	761522	07/31/1974	1019	2.0	235	4	0	25.63	3.04	5.53	1.09
05A	391637	761522	07/31/1974	1017	4.0	235	4	0	25.55	3.09	5.61	1.18
05A	391637	761522	07/31/1974	1015	6.0	235	4	0	10.75	12.21	22.08	16.82
05A	391637	761522	09/19/1974	1026	.0			0	23.17	3.06	5.53	1.75
05A	391637	761522	09/19/1974	1024	2.0			0	23.15	3.07	5.57	1.77
05A	391637	761522	09/19/1974	1022	4.0			0	23.14	3.07	5.58	1.78
05A	391637	761522	09/19/1974	1020	6.0			0	23.14	3.05	5.53	1.75
05A	391637	761522	09/19/1974	1018	8.0			0	23.11	3.14	5.69	1.87
05A	391637	761522	09/19/1974	1016	9.0			0	23.11	3.14	5.70	1.87
05A	391637	761522	11/25/1974	1640	.0	315	18	6	7.87	3.11	5.65	4.37
05A	391637	761522	11/25/1974	1638	2.0	315	18	6	7.91	3.21	5.83	4.51
05A	391637	761522	11/25/1974	1636	4.0	315	18	6	8.00	3.16	5.74	4.42
05A	391637	761522	11/25/1974	1634	6.0	315	18	6	7.98	3.30	5.98	4.62
05A	391637	761522	11/25/1974	1632	8.0	315	18	6	7.98	3.61	6.54	5.05
05A	391637	761522	11/25/1974	1630	12.0	315	18	6	8.04	3.66	6.64	5.13
05B	391614	761403	12/14/1973	1039	.0	300	6	2	5.16	.14	.28	.25
05B	391614	761403	12/14/1973	1037	2.0	300	6	2	5.08	.14	.28	.25
05B	391614	761403	12/14/1973	1035	4.0	300	6	2	5.03	.15	.31	.27
05B	391614	761403	12/14/1973	1033	6.0	300	6	2	5.97	1.23	2.25	1.79
05B	391614	761403	12/14/1973	1031	8.0	300	6	2	7.38	4.48	8.12	6.34
05B	391614	761403	12/14/1973	1030	9.7	300	6	2	7.37	4.58	8.30	6.48
05B	391614	761403	01/23/1974	1123	.0	240	6		2.48	.95	1.75	1.43
05B	391614	761403	01/23/1974	1121	2.0	240	6		1.94	1.67	3.04	2.46
05B	391614	761403	01/23/1974	1119	4.0	240	6		2.25	2.58	4.69	3.79
05B	391614	761403	01/23/1974	1117	6.0	240	6		3.24	4.91	8.88	7.14
05B	391614	761403	01/23/1974	1115	8.5	240	6		3.92	6.21	11.25	9.00
05B	391614	761403	02/12/1974	815	.0	220	5	2	1.29	1.45	2.64	2.11
05B	391614	761403	02/12/1974	813	2.0	220	5	2	1.27	1.46	2.66	2.13
05B	391614	761403	02/12/1974	811	4.0	220	5	2	1.64	1.88	3.43	2.76
05B	391614	761403	02/12/1974	809	6.0	220	5	2	1.99	2.68	4.87	3.93
05B	391614	761403	02/12/1974	807	8.0	220	5	2	3.34	5.60	10.14	8.14
05B	391614	761403	02/12/1974	805	9.6	220	5	2	3.46	5.86	10.61	8.51
05B	391614	761403	03/20/1974	1148	.0	40	10	1	5.57	.14	.28	.24
05B	391614	761403	03/20/1974	1146	2.0	40	10	1	5.53	.14	.29	.25
05B	391614	761403	03/20/1974	1144	4.0	40	10	1	5.42	.44	.83	.68
05B	391614	761403	03/20/1974	1142	6.0	40	10	1	5.68	2.01	3.66	2.92
05B	391614	761403	03/20/1974	1140	8.5	40	10	1	5.92	3.63	6.58	5.22
05B	391614	761403	05/02/1974	1043	.0	45	5	1	15.68	.36	.67	-0.42
05B	391614	761403	05/02/1974	1041	2.0	45	5	1	15.57	.33	.62	-0.44

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
05B	391614	761403	05/02/1974	1039	4.0	45	5	1	15.47	.47	.88	-0.23
05B	391614	761403	05/02/1974	1037	6.0	45	5	1	14.90	1.21	2.22	.89
05B	391614	761403	05/02/1974	1035	6.8	45	5	1	14.79	1.33	2.42	1.06
05B	391614	761403	06/14/1974	752	.0	150	3	1	22.12	2.03	3.70	.61
05B	391614	761403	06/14/1974	750	2.0	150	3	1	21.94	2.07	3.77	.70
05B	391614	761403	06/14/1974	748	4.0	150	3	1	21.80	2.36	4.28	1.12
05B	391614	761403	06/14/1974	746	6.0	150	3	1	20.35	4.52	8.18	4.40
05B	391614	761403	06/14/1974	744	8.0	150	3	1	19.24	5.42	9.81	5.88
05B	391614	761403	06/14/1974	742	9.2	150	3	1	15.76	7.67	13.88	9.67
05B	391614	761403	07/31/1974	1040	.0	235	4	0	26.63	2.83	5.14	.53
05B	391614	761403	07/31/1974	1038	2.0	235	4	0	25.26	3.32	6.02	1.57
05B	391614	761403	07/31/1974	1036	4.0	235	4	0	25.28	3.85	6.98	2.28
05B	391614	761403	07/31/1974	1034	6.0	235	4	0	25.18	5.01	9.08	3.88
05B	391614	761403	07/31/1974	1032	8.0	235	4	0	25.16	5.13	9.30	4.05
05B	391614	761403	07/31/1974	1030	8.7	235	4	0	25.15	5.19	9.40	4.13
05B	391614	761403	09/19/1974	1005	.0			0	23.34	2.46	4.47	.89
05B	391614	761403	09/19/1974	1003	2.0			0	23.08	2.87	5.20	1.51
05B	391614	761403	09/19/1974	1001	4.0			0	23.11	3.09	5.61	1.81
05B	391614	761403	09/19/1974	959	6.0			0	23.18	4.76	8.62	4.06
05B	391614	761403	09/19/1974	957	8.0			0	23.20	5.29	9.58	4.77
05B	391614	761403	09/19/1974	955	9.0			0	23.20	5.30	9.59	4.78
05B	391614	761403	11/25/1974	1708	.0	315	16	6	7.98	2.81	5.11	3.93
05B	391614	761403	11/25/1974	1706	2.0	315	16	6	8.05	2.76	5.01	3.85
05B	391614	761403	11/25/1974	1704	4.0	315	16	6	8.24	2.94	5.34	4.09
05B	391614	761403	11/25/1974	1702	6.0	315	16	6	8.96	6.30	11.41	8.77
05B	391614	761403	11/25/1974	1700	8.0	315	16	6	9.09	6.93	12.54	9.64
05C	391604	761329	12/14/1973	1026	.0	300	4	2	5.10	.17	.33	.29
05C	391604	761329	12/14/1973	1024	2.0	300	4	2	5.27	.32	.61	.51
05C	391604	761329	12/14/1973	1022	4.0	300	4	2	5.44	.61	1.14	.92
05C	391604	761329	12/14/1973	1020	5.3	300	4	2	5.59	1.02	1.87	1.50
05C	391604	761329	01/23/1974	1144	.0	240	7		2.42	.82	1.51	1.23
05C	391604	761329	01/23/1974	1142	2.0	240	7		2.12	1.71	3.11	2.52
05C	391604	761329	01/23/1974	1140	4.4	240	7		2.38	2.14	3.90	3.15
05C	391604	761329	02/12/1974	754	.0	220	6	2	1.35	1.56	2.85	2.29
05C	391604	761329	02/12/1974	752	2.0	220	6	2	1.57	1.93	3.52	2.83
05C	391604	761329	02/12/1974	750	4.5	220	6	2	1.92	2.62	4.76	3.84
05C	391604	761329	03/20/1974	1206	.0	40	10	1	5.96	.25	.48	.38
05C	391604	761329	03/20/1974	1204	2.0	40	10	1	5.96	.25	.48	.38
05C	391604	761329	03/20/1974	1202	4.0	40	10	1	5.65	1.50	2.73	2.18
05C	391604	761329	03/20/1974	1200	6.0	40	10	1	5.91	3.36	6.10	4.84
05C	391604	761329	05/01/1974	1023	.0	45	4	1	15.87	.29	.56	-0.54
05C	391604	761329	05/01/1974	1021	2.0	45	4	1	15.64	.27	.51	-0.54
05C	391604	761329	05/01/1974	1019	4.0	45	4	1	15.49	.43	.81	-0.29
05C	391604	761329	05/01/1974	1017	6.0	45	4	1	14.89	1.44	2.63	1.21
05C	391604	761329	05/01/1974	1015	6.7	45	4	1	14.39	1.98	3.61	2.04
05C	391604	761329	06/14/1974	736	.0			1	22.10	2.22	4.04	.86
05C	391604	761329	06/14/1974	734	2.0			1	22.02	2.24	4.07	.91
05C	391604	761329	06/14/1974	732	4.0			1	21.86	2.37	4.30	1.12
05C	391604	761329	06/14/1974	730	4.9			1	20.50	4.07	7.38	3.76
05C	391604	761329	07/31/1974	1054	.0	235	4	0	25.75	3.21	5.82	1.28

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
05C	391604	761329	07/31/1974	1052	2.0	235	4	0	25.62	3.29	5.98	1.43
05C	391604	761329	07/31/1974	1050	3.6	235	4	0	25.35	3.84	6.96	2.25
05C	391604	761329	09/19/1974	956	.0			0	23.37	2.52	4.59	.97
05C	391604	761329	09/19/1974	954	2.0			0	23.10	3.21	5.82	1.97
05C	391604	761329	09/19/1974	952	4.0			0	23.09	3.42	6.21	2.27
05C	391604	761329	09/19/1974	950	6.0			0	23.09	4.05	7.35	3.12
05C	391604	761329	09/19/1974	940	7.0			0	23.08	4.07	7.38	3.15
06A	391357	761932	12/14/1973	916	.0	300	5	2	5.61	1.12	2.05	1.64
06A	391357	761932	12/14/1973	914	2.0	300	5	2	5.63	1.25	2.28	1.83
06A	391357	761932	12/14/1973	912	4.0	300	5	2	5.75	1.89	3.43	2.74
06A	391357	761932	12/14/1973	910	6.0	300	5	2	5.82	2.08	3.78	3.01
06A	391357	761932	01/23/1974	1026	.0	240	5	0	2.46	2.03	3.70	2.99
06A	391357	761932	01/23/1974	1024	2.0	240	5	0	2.39	2.74	4.98	4.02
06A	391357	761932	01/23/1974	1022	4.0	240	5	0	2.54	2.99	5.42	4.38
06A	391357	761932	01/23/1974	1020	5.7	240	5	0	2.68	3.39	6.15	4.96
06A	391357	761932	02/12/1974	626	.0	270	8	0	1.56	2.90	5.26	4.24
06A	391357	761932	02/12/1974	624	2.0	270	8	0	1.57	2.90	5.27	4.24
06A	391357	761932	02/12/1974	622	4.0	270	8	0	1.59	2.95	5.36	4.32
06A	391357	761932	02/12/1974	620	5.0	270	8	0	1.60	2.95	5.35	4.31
06A	391357	761932	03/20/1974	1036	.0	40	10	1	5.83	.68	1.26	1.01
06A	391357	761932	03/20/1974	1034	2.0	40	10	1	5.79	.69	1.28	1.02
06A	391357	761932	03/20/1974	1032	4.0	40	10	1	5.76	1.59	2.90	2.32
06A	391357	761932	03/20/1974	1030	5.5	40	10	1	5.84	2.02	3.67	2.92
06A	391357	761932	05/01/1974	1000	.0	45	5	0	15.70	.63	1.16	-0.05
06A	391357	761932	05/01/1974	958	2.0	45	5	0	15.51	.67	1.24	.04
06A	391357	761932	05/01/1974	956	4.0	45	5	0	14.73	1.57	2.86	1.41
06A	391357	761932	05/01/1974	954	6.0	45	5	0	13.33	2.95	5.36	3.54
06A	391357	761932	05/01/1974	952	8.0	45	5	0	12.33	3.66	6.63	4.66
06A	391357	761932	05/01/1974	950	10.0	45	5	0	12.26	3.70	6.71	4.73
06A	391357	761932	05/01/1974	948	10.6	45	5	0	12.25	3.71	6.72	4.74
06A	391357	761932	06/14/1974	836	.0	180	4	1	22.43	1.95	3.55	.42
06A	391357	761932	06/14/1974	834	2.0	180	4	1	22.28	2.02	3.68	.55
06A	391357	761932	06/14/1974	832	4.0	180	4	1	22.24	2.04	3.72	.59
06A	391357	761932	06/14/1974	830	4.9	180	4	1	22.24	2.04	3.72	.59
06A	391357	761932	07/31/1974	946	.0			1	26.46	3.55	6.43	1.54
06A	391357	761932	07/31/1974	944	2.0			1	25.81	3.90	7.06	2.19
06A	391357	761932	07/31/1974	942	4.0			1	25.74	4.10	7.43	2.49
06A	391357	761932	07/31/1974	940	5.2			1	25.73	4.16	7.54	2.57
06A	391357	761932	09/19/1974	821	.0	90	5	0	22.89	4.04	7.31	3.15
06A	391357	761932	09/19/1974	819	2.0	90	5	0	22.90	4.07	7.38	3.20
06A	391357	761932	09/19/1974	817	4.0	90	5	0	22.89	4.09	7.41	3.22
06A	391357	761932	09/19/1974	815	6.0	90	5	0	22.87	4.09	7.42	3.23
06A	391357	761932	11/25/1974	1511	.0	315	12	9	8.31	4.50	8.15	6.29
06A	391357	761932	11/25/1974	1509	2.0	315	12	9	8.33	4.58	8.29	6.40
06A	391357	761932	11/25/1974	1507	4.0	315	12	9	8.34	5.00	9.06	6.99
06A	391357	761932	11/25/1974	1505	6.4	315	12	9	8.56	5.63	10.19	7.86
06B	391322	761720	12/14/1973	934	.0	300	5	2	5.77	1.53	2.80	2.23
06B	391322	761720	12/14/1973	932	2.0	300	5	2	5.79	1.54	2.80	2.24
06B	391322	761720	12/14/1973	930	4.0	300	5	2	5.88	1.53	2.79	2.22
06B	391322	761720	01/23/1974	957	.0	240	8	0	2.39	2.08	3.79	3.06

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
06B	391322	761720	01/23/1974	955	2.3	240	8	0	2.53	2.88	5.23	4.22
06B	391322	761720	02/12/1974	647	.0	270	7	0	1.64	2.96	5.38	4.33
06B	391322	761720	02/12/1974	645	2.6	270	7	0	1.70	2.99	5.43	4.37
06B	391322	761720	03/20/1974	1014	.0	40	10	1	5.65	.69	1.28	1.03
06B	391322	761720	03/20/1974	1012	2.0	40	10	1	5.62	.69	1.28	1.04
06B	391322	761720	03/20/1974	1010	3.0	40	10	1	5.60	.71	1.31	1.06
06B	391322	761720	05/01/1974	914	.0	45	4	1	15.53	1.03	1.88	.53
06B	391322	761720	05/01/1974	912	2.0	45	4	1	15.41	1.00	1.83	.51
06B	391322	761720	05/01/1974	910	3.5	45	4	1	15.41	1.00	1.84	.52
06B	391322	761720	06/14/1974	849	.0			1	22.52	2.14	3.89	.66
06B	391322	761720	06/14/1974	847	2.0			1	22.25	2.35	4.27	1.01
06B	391322	761720	06/14/1974	845	2.9			1	22.19	2.48	4.50	1.19
06B	391322	761720	07/31/1974	929	.0	235	5	1	26.01	4.01	7.27	2.29
06B	391322	761720	07/31/1974	927	2.0	235	5	1	25.67	4.19	7.58	2.62
06B	391322	761720	07/31/1974	925	2.4	235	5	1	25.57	4.34	7.87	2.87
06B	391322	761720	09/19/1974	834	.0	90	5	0	23.09	4.38	7.94	3.57
06B	391322	761720	09/19/1974	832	2.0	90	5	0	23.08	4.38	7.94	3.57
06B	391322	761720	09/19/1974	830	4.0	90	5	0	23.05	4.38	7.94	3.58
06B	391322	761720	11/25/1974	1535	.0	315	17	6	8.20	3.84	6.95	5.36
06B	391322	761720	11/25/1974	1532	2.0	315	17	6	8.29	3.85	6.98	5.38
06B	391322	761720	11/25/1974	1530	4.0	315	17	6	8.22	3.93	7.13	5.50
06C	391247	761507	12/14/1973	1062	.0	300	5	2	5.70	.77	1.42	1.14
06C	391247	761507	12/14/1973	1060	2.0	300	5	2	5.94	1.44	2.63	2.09
06C	391247	761507	12/14/1973	959	4.0	300	5	2	6.70	2.81	5.10	4.01
06C	391247	761507	12/14/1973	957	6.0	300	5	2	7.05	3.80	6.89	5.40
06C	391247	761507	12/14/1973	955	8.0	300	5	2	7.09	4.05	7.33	5.74
06C	391247	761507	12/14/1973	953	10.0	300	5	2	7.20	4.42	8.00	6.26
06C	391247	761507	12/14/1973	951	12.0	300	5	2	7.27	4.64	8.41	6.57
06C	391247	761507	12/14/1973	950	14.4	300	5	2	7.40	4.86	8.80	6.87
06C	391247	761507	01/23/1974	939	.0	140	5	0	3.01	2.77	5.04	4.07
06C	391247	761507	01/23/1974	937	2.0	140	5	0	3.21	4.09	7.41	5.96
06C	391247	761507	01/23/1974	935	4.0	140	5	0	3.29	4.62	8.37	6.73
06C	391247	761507	01/23/1974	933	6.0	140	5	0	3.72	5.57	10.08	8.07
06C	391247	761507	01/23/1974	931	8.0	140	5	0	3.87	5.97	10.80	8.64
06C	391247	761507	01/23/1974	929	10.0	140	5	0	4.02	6.44	11.66	9.32
06C	391247	761507	01/23/1974	927	12.0	140	5	0	4.14	6.56	11.88	9.49
06C	391247	761507	01/23/1974	925	14.0	140	5	0	4.17	6.56	11.88	9.49
06C	391247	761507	02/12/1974	720	.0	320	7	1	1.45	2.10	3.82	3.07
06C	391247	761507	02/12/1974	718	2.0	320	7	1	1.81	2.45	4.46	3.60
06C	391247	761507	02/12/1974	716	4.0	320	7	1	2.03	2.91	5.28	4.26
06C	391247	761507	02/12/1974	714	6.0	320	7	1	2.21	3.36	6.10	4.92
06C	391247	761507	02/12/1974	712	8.0	320	7	1	3.07	5.05	9.15	7.35
06C	391247	761507	02/12/1974	710	10.5	320	7	1	3.53	6.07	10.99	8.80
06C	391247	761507	03/20/1974	952	.0	40	10	1	5.72	1.22	2.24	1.79
06C	391247	761507	03/20/1974	950	2.0	40	10	1	5.70	1.21	2.21	1.77
06C	391247	761507	03/20/1974	948	4.0	40	10	1	5.78	2.58	4.68	3.73
06C	391247	761507	03/20/1974	946	6.0	40	10	1	5.92	3.36	6.09	4.83
06C	391247	761507	03/20/1974	944	8.0	40	10	1	5.94	3.99	7.24	5.74
06C	391247	761507	03/20/1974	942	10.0	40	10	1	5.93	4.67	8.47	6.71
06C	391247	761507	03/20/1974	940	11.5	40	10	1	5.93	4.78	8.66	6.86

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
06C	391247	761507	05/02/1974	842	.0	45	5	0	15.03	1.47	2.68	1.22
06C	391247	761507	05/02/1974	840	2.0	45	5	0	14.87	1.47	2.68	1.25
06C	391247	761507	05/02/1974	838	4.0	45	5	0	14.40	2.17	3.96	2.30
06C	391247	761507	05/02/1974	836	6.0	45	5	0	13.40	3.07	5.57	3.70
06C	391247	761507	05/02/1974	834	8.0	45	5	0	12.62	3.55	6.44	4.48
06C	391247	761507	05/02/1974	832	10.0	45	5	0	12.50	3.62	6.56	4.58
06C	391247	761507	05/02/1974	830	12.0	45	5	0	12.43	3.66	6.63	4.65
06C	391247	761507	05/02/1974	828	14.0	45	5	0	12.36	3.68	6.66	4.68
06C	391247	761507	06/14/1974	912	.0	180	4	1	22.21	2.70	4.91	1.50
06C	391247	761507	06/14/1974	910	2.0	180	4	1	22.09	3.13	5.68	2.11
06C	391247	761507	06/14/1974	908	4.0	180	4	1	20.74	4.44	8.04	4.21
06C	391247	761507	06/14/1974	906	6.0	180	4	1	19.56	5.27	9.54	5.61
06C	391247	761507	06/14/1974	904	8.0	180	4	1	18.76	6.00	10.86	6.78
06C	391247	761507	06/14/1974	902	10.0	180	4	1	18.06	6.80	12.30	8.02
06C	391247	761507	06/14/1974	900	12.5	180	4	1	17.98	6.79	12.29	8.03
06C	391247	761507	07/31/1974	912	.0	235	4	1	25.66	5.33	9.66	4.18
06C	391247	761507	07/31/1974	910	2.0	235	4	1	25.60	4.80	8.69	3.47
06C	391247	761507	07/31/1974	908	4.0	235	4	1	25.63	5.16	9.35	3.96
06C	391247	761507	07/31/1974	906	6.0	235	4	1	25.36	5.33	9.66	4.26
06C	391247	761507	07/31/1974	904	8.0	235	4	1	25.27	5.45	9.87	4.45
06C	391247	761507	07/31/1974	902	10.0	235	4	1	25.04	5.60	10.14	4.71
06C	391247	761507	07/31/1974	900	10.8	235	4	1	25.03	5.61	10.16	4.73
06C	391247	761507	09/19/1974	904	.0	90	5	0	23.03	4.07	7.37	3.15
06C	391247	761507	09/19/1974	902	2.0	90	5	0	23.11	4.11	7.45	3.20
06C	391247	761507	09/19/1974	900	4.0	90	5	0	23.18	5.06	9.16	4.46
06C	391247	761507	09/19/1974	858	6.0	90	5	0	23.20	5.20	9.42	4.65
06C	391247	761507	09/19/1974	856	8.0	90	5	0	23.22	5.40	9.78	4.92
06C	391247	761507	09/19/1974	854	10.0	90	5	0	23.22	5.70	10.32	5.33
06C	391247	761507	09/19/1974	852	12.0	90	5	0	23.22	5.78	10.47	5.44
06C	391247	761507	09/19/1974	850	13.0	90	5	0	23.19	5.79	10.48	5.46
06C	391247	761507	11/25/1974	1602	.0	315	18	6	8.27	3.25	5.90	4.53
06C	391247	761507	11/25/1974	1600	2.0	315	18	6	8.30	3.27	5.94	4.56
06C	391247	761507	11/25/1974	1558	4.0	315	18	6	8.78	6.32	11.43	8.81
06C	391247	761507	11/25/1974	1556	6.0	315	18	6	9.13	6.93	12.54	9.64
06C	391247	761507	11/25/1974	1554	8.0	315	18	6	9.22	7.00	12.66	9.72
06C	391247	761507	11/25/1974	1552	10.0	315	18	6	9.28	7.06	12.77	9.79
06C	391247	761507	11/25/1974	1550	13.0	315	18	6	9.28	7.16	12.96	9.94
07A	391528	763423	12/13/1973	1435	.0	140	15	2	7.85	5.17	9.36	7.27
07A	391528	763423	12/13/1973	1445	2.0	140	15	2	7.88	5.17	9.37	7.28
07A	391528	763423	12/13/1973	1455	4.0	140	15	2	8.19	4.98	9.03	6.99
07A	391528	763423	12/13/1973	1510	6.5	140	15	2	7.93	5.18	9.38	7.29
07A	391528	763423	01/23/1974	1208	.0	165	5	4	6.40	3.06	5.56	4.39
07A	391528	763423	01/23/1974	1206	2.0	165	5	4	5.40	3.59	6.52	5.19
07A	391528	763423	01/23/1974	1204	4.0	165	5	4	5.58	3.90	7.08	5.63
07A	391528	763423	01/23/1974	1202	6.0	165	5	4	5.75	5.12	9.27	7.35
07A	391528	763423	01/23/1974	1200	8.0	165	5	4	5.51	5.42	9.81	7.79
07A	391528	763423	01/24/1974	1015	.0	315	9	2	4.79	3.73	6.77	5.42
07A	391528	763423	01/24/1974	1020	2.0	315	9	2	4.81	3.74	6.79	5.43
07A	391528	763423	01/24/1974	1050	4.0	315	9	2	4.24	4.23	7.66	6.14
07A	391528	763423	01/24/1974	1110	6.0	315	9	2	4.11	4.96	8.98	7.20

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
07A	391528	763423	01/24/1974	1130	8.0	315	9	2	4.23	5.79	10.47	8.37
07A	391528	763423	01/24/1974	1140	9.0	315	9	2	4.25	6.08	11.01	8.80
07A	391528	763423	03/21/1974	1310	.0	250	17	1	7.23	3.63	6.58	5.14
07A	391528	763423	03/21/1974	1308	2.0	250	17	1	7.22	3.63	6.59	5.15
07A	391528	763423	03/21/1974	1306	4.0	250	17	1	7.16	3.64	6.59	5.16
07A	391528	763423	03/21/1974	1304	6.0	250	17	1	7.06	3.92	7.11	5.57
07A	391528	763423	03/21/1974	1302	8.0	250	17	1	7.17	3.98	7.21	5.64
07A	391528	763423	03/21/1974	1300	9.0	250	17	1	7.27	4.03	7.30	5.71
07A	391528	763423	05/02/1974	1410	.0	140	10	2	15.98	2.77	5.03	2.87
07A	391528	763423	05/02/1974	1411	.0				16.06	2.77	5.03	2.86
07A	391528	763423	05/02/1974	1408	2.0	140	10	2	15.91	2.78	5.04	2.89
07A	391528	763423	05/02/1974	1409	2.0				15.96	2.78	5.04	2.88
07A	391528	763423	05/02/1974	1406	4.0	140	10	2	15.59	2.78	5.04	2.95
07A	391528	763423	05/02/1974	1407	4.0				15.66	2.78	5.04	2.94
07A	391528	763423	05/02/1974	1404	6.0	140	10	2	15.54	2.81	5.09	3.00
07A	391528	763423	05/02/1974	1405	6.0				15.56	2.82	5.12	3.01
07A	391528	763423	05/02/1974	1402	8.0	140	10	2	15.12	3.09	5.60	3.46
07A	391528	763423	05/02/1974	1403	8.0				15.10	3.12	5.66	3.50
07A	391528	763423	05/02/1974	1401	10.0				13.97	3.60	6.53	4.35
07A	391528	763423	05/02/1974	1400	10.0	140	10	2	14.07	3.48	6.31	4.17
07A	391528	763423	08/01/1974	918	.7			4	26.45	4.62	8.37	3.00
07A	391528	763423	08/01/1974	916	2.7			4	26.22	4.66	8.43	3.11
07A	391528	763423	08/01/1974	914	4.7			4	26.03	4.80	8.68	3.35
07A	391528	763423	08/01/1974	912	6.7			4	25.75	4.97	9.00	3.66
07A	391528	763423	08/01/1974	910	8.7			4	25.31	5.27	9.54	4.19
07A	391528	763423	09/18/1974	1433	.0	340	9	0	24.43	5.24	9.48	4.38
07A	391528	763423	09/18/1974	1431	2.0	340	9	0	24.34	5.26	9.53	4.44
07A	391528	763423	09/18/1974	1429	4.0	340	9	0	24.24	5.32	9.63	4.54
07A	391528	763423	09/18/1974	1427	6.0	340	9	0	24.24	5.41	9.80	4.67
07A	391528	763423	09/18/1974	1425	8.0	340	9	0	24.33	5.73	10.37	5.07
07A	391528	763423	09/18/1974	1423	9.0	340	9	0	24.34	5.91	10.70	5.32
07A	391528	763423	11/25/1974	1337	.0	315	17	6	10.01	6.89	12.46	9.47
07A	391528	763423	11/25/1974	1335	2.0	315	17	6	9.96	6.86	12.42	9.45
07A	391528	763423	11/25/1974	1333	4.0	315	17	6	9.98	6.87	12.43	9.45
07A	391528	763423	11/25/1974	1331	6.0	315	17	6	10.08	6.89	12.47	9.47
07A	391528	763423	11/25/1974	1329	8.0	315	17	6	10.11	6.88	12.45	9.45
07A	391528	763423	11/25/1974	1327	10.0	315	17	6	10.38	7.06	12.78	9.67
07A	391528	763423	11/25/1974	1325	12.0	315	17	6	10.36	7.06	12.78	9.67
08A	391049	762556	12/14/1973	1340	.0	315	12	2	6.32	3.89	7.05	5.57
08A	391049	762556	12/14/1973	1355	2.0	315	12	2	6.35	4.02	7.29	5.76
08A	391049	762556	12/14/1973	1415	4.0	315	12	2	6.43	4.15	7.52	5.93
08A	391049	762556	01/24/1974	1310	.0	315	5	2	2.96	2.16	3.93	3.19
08A	391049	762556	01/24/1974	1320	2.0	315	5	2	2.98	2.36	4.29	3.47
08A	391049	762556	01/24/1974	1340	4.0	315	5	2	3.60	2.79	5.06	4.08
08A	391049	762556	03/21/1974	1119	.0	250	17	1	6.46	1.38	2.52	1.98
08A	391049	762556	03/21/1974	1117	2.0	250	17	1	6.44	1.51	2.75	2.17
08A	391049	762556	03/21/1974	1115	4.0	250	17	1	7.01	2.76	5.01	3.92
08A	391049	762556	05/02/1974	1214	.0	140	10	2	15.95	1.77	3.22	1.49
08A	391049	762556	05/02/1974	1214	.0	140	10	2	15.90	1.19	2.17	.69
08A	391049	762556	05/02/1974	1212	2.0	140	10	2	15.85	1.29	2.35	.84

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
08A	391049	762556	05/02/1974	1212	2.0	140	10	2	15.92	1.77	3.22	1.49
08A	391049	762556	05/02/1974	1210	4.0	140	10	2	15.73	1.71	3.11	1.44
08A	391049	762556	05/02/1974	1210	4.0	140	10	2	15.77	1.83	3.33	1.61
08A	391049	762556	06/14/1974	1006	.0	170	4	0	23.46	1.86	3.38	.04
08A	391049	762556	06/14/1974	1004	2.0	170	4	0	22.35	2.69	4.89	1.45
08A	391049	762556	06/14/1974	1002	4.0	170	4	0	21.39	3.88	7.04	3.30
08A	391049	762556	06/14/1974	1000	5.6	170	4	0	20.01	5.28	9.57	5.53
08A	391049	762556	08/01/1974	754	.0			4	26.15	3.72	6.75	1.87
08A	391049	762556	08/01/1974	752	2.0			4	29.91	3.58	6.50	.57
08A	391049	762556	08/01/1974	750	4.0			4	25.28	5.18	9.39	4.08
08A	391049	762556	09/18/1974	1319	.0	340	9	0	23.55	4.52	8.19	3.64
08A	391049	762556	09/18/1974	1317	2.0	340	9	0	23.46	4.40	7.97	3.50
08A	391049	762556	09/18/1974	1315	4.0	340	9	0	23.33	5.51	9.97	5.03
08A	391049	762556	11/25/1974	1229	.0	315	15	2	8.34	4.81	8.70	6.72
08A	391049	762556	11/25/1974	1227	2.0	315	15	2	8.33	4.81	8.72	6.73
08A	391049	762556	11/25/1974	1225	4.0	315	15	2	8.68	5.68	10.28	7.92
08B	390948	762230	12/14/1973	1231	.0	310	10	2	6.17	2.19	3.99	3.16
08B	390948	762230	12/14/1973	1245	2.0	310	10	2	6.17	2.35	4.28	3.39
08B	390948	762230	12/14/1973	1250	4.5	310	10	2	6.52	4.41	7.99	6.30
08B	390948	762230	01/24/1974	1415	.0	315	5	2	2.85	2.61	4.75	3.84
08B	390948	762230	01/24/1974	1430	2.0	315	5	2	2.97	2.68	4.86	3.93
08B	390948	762230	01/24/1974	1435	4.0	315	5	2	3.20	3.39	6.14	4.95
08B	390948	762230	02/11/1974	1529	.0	320	32	1	2.23	4.47	8.10	6.52
08B	390948	762230	02/11/1974	1527	2.0	320	32	1	2.26	4.48	8.13	6.54
08B	390948	762230	02/11/1974	1525	4.0	320	32	1	2.25	4.49	8.13	6.54
08B	390948	762230	03/21/1974	1144	.0	250	17	1	6.19	1.89	3.44	2.73
08B	390948	762230	03/21/1974	1142	2.0	250	17	1	6.19	1.89	3.44	2.73
08B	390948	762230	03/21/1974	1140	4.0	250	17	1	6.14	2.30	4.18	3.31
08B	390948	762230	05/02/1974	1418	.0	140	10	2	15.65	1.64	2.98	1.36
08B	390948	762230	05/02/1974	1420	.0	140	10	2	15.57	1.63	2.97	1.36
08B	390948	762230	05/02/1974	1414	2.0	140	10	2	15.64	1.60	2.91	1.30
08B	390948	762230	05/02/1974	1416	2.0	140	10	2	15.56	1.61	2.94	1.34
08B	390948	762230	05/02/1974	1410	4.0	140	10	2	15.57	1.69	3.09	1.45
08B	390948	762230	05/02/1974	1412	4.0	140	10	2	15.51	1.68	3.07	1.45
08B	390948	762230	06/12/1974	1136	.0	320	2	1	22.71	2.61	4.74	1.25
08B	390948	762230	06/12/1974	1134	2.0	320	2	1	22.69	2.62	4.77	1.28
08B	390948	762230	06/12/1974	1132	3.5	320	2	1	21.24	3.64	6.61	3.01
08B	390948	762230	06/12/1974	1130	4.1	320	2	1	20.97	3.74	6.78	3.20
08B	390948	762230	09/18/1974	1239	.0	340	9	0	23.28	4.00	7.25	3.00
08B	390948	762230	09/18/1974	1237	2.0	340	9	0	23.12	4.51	8.17	3.73
08B	390948	762230	09/18/1974	1235	4.0	340	9	0	23.09	4.99	9.05	4.40
08B	390948	762230	09/18/1974	1232	6.0	340	9	0	23.41	5.93	10.73	5.59
08B	390948	762230	09/18/1974	1230	7.0	340	9	0	23.43	6.18	11.19	5.93
08B	390948	762230	11/25/1974	1206	.0	315	8	1	8.98	5.92	10.72	8.23
08B	390948	762230	11/25/1974	1204	2.0	315	8	1	8.93	6.08	11.01	8.46
08B	390948	762230	11/25/1974	1202	4.0	315	8	1	8.94	6.37	11.53	8.87
08B	390948	762230	11/25/1974	1200	4.8	315	8	1	9.19	6.82	12.33	9.47
08C	390847	761902	12/12/1973	1200	.0	270	18	2	6.11	2.63	4.79	3.79
08C	390847	761902	12/12/1973	1200	2.0	270	18	2	6.23	2.68	4.86	3.85
08C	390847	761902	12/12/1973	1200	4.0	270	18	2	6.35	3.49	6.32	4.99

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
08C	390847	761902	12/12/1973	1200	6.0	270	18	2	8.02	5.98	10.82	8.40
08C	390847	761902	12/12/1973	1200	8.0	270	18	2	8.16	6.07	10.99	8.52
08C	390847	761902	12/12/1973	1200	9.0	270	18	2	8.31	6.14	11.12	8.61
08C	390847	761902	01/23/1974	848	.0	140	5	0	3.05	3.35	6.07	4.89
08C	390847	761902	01/23/1974	846	2.0	140	5	0	3.44	5.11	9.26	7.43
08C	390847	761902	01/23/1974	844	4.0	140	5	0	3.56	5.39	9.75	7.82
08C	390847	761902	01/23/1974	842	6.0	140	5	0	4.23	6.74	12.19	9.74
08C	390847	761902	01/23/1974	840	8.4	140	5	0	4.65	7.46	13.50	10.75
08C	390847	761902	02/11/1974	1458	.0	320	32	1	2.06	3.85	6.98	5.62
08C	390847	761902	02/11/1974	1456	2.0	320	32	1	2.18	3.92	7.10	5.72
08C	390847	761902	02/11/1974	1454	4.0	320	32	1	2.23	4.09	7.41	5.97
08C	390847	761902	02/11/1974	1452	6.0	320	32	1	2.38	4.43	8.03	6.46
08C	390847	761902	02/11/1974	1450	8.0	320	32	1	3.95	7.45	13.47	10.76
08C	390847	761902	03/20/1974	845	.0	40	17	1	5.97	2.82	5.12	4.06
08C	390847	761902	03/20/1974	843	2.0	40	17	1	5.98	2.83	5.13	4.07
08C	390847	761902	03/20/1974	841	4.0	40	17	1	6.01	3.00	5.45	4.32
08C	390847	761902	03/20/1974	839	6.0	40	17	1	5.90	5.06	9.16	7.26
08C	390847	761902	03/20/1974	837	8.0	40	17	1	5.99	6.57	11.88	9.39
08C	390847	761902	03/20/1974	835	9.5	40	17	1	5.98	6.66	12.05	9.53
08C	390847	761902	05/02/1974	810	.0	45	3	0	15.09	1.94	3.54	1.87
08C	390847	761902	05/02/1974	808	2.0	45	3	0	14.97	1.90	3.46	1.83
08C	390847	761902	05/02/1974	806	4.0	45	3	0	14.89	2.09	3.81	2.12
08C	390847	761902	05/02/1974	804	6.0	45	3	0	13.31	3.30	5.98	4.02
08C	390847	761902	05/02/1974	802	8.0	45	3	0	12.51	3.74	6.78	4.75
08C	390847	761902	05/02/1974	800	10.0	45	3	0	12.23	3.92	7.10	5.04
08C	390847	761902	06/12/1974	1040	.0	320	5	1	22.62	2.20	4.01	.72
08C	390847	761902	06/12/1974	1038	2.0	320	5	1	22.56	2.24	4.07	.79
08C	390847	761902	06/12/1974	1036	4.0	320	5	1	21.24	3.96	7.18	3.44
08C	390847	761902	06/12/1974	1034	6.0	320	5	1	18.84	5.87	10.63	6.59
08C	390847	761902	06/12/1974	1032	8.0	320	5	1	17.23	7.23	13.09	8.79
08C	390847	761902	06/12/1974	1030	9.0	320	5	1	17.27	7.25	13.12	8.81
08C	390847	761902	07/31/1974	830	.0			1	25.73	4.90	8.88	3.58
08C	390847	761902	07/31/1974	828	2.0			1	25.40	5.05	9.15	3.87
08C	390847	761902	07/31/1974	826	4.0			1	24.69	5.63	10.20	4.85
08C	390847	761902	07/31/1974	824	6.0			1	24.52	5.72	10.36	5.01
08C	390847	761902	07/31/1974	822	8.0			1	24.13	6.23	11.27	5.80
08C	390847	761902	07/31/1974	820	8.6			1	24.04	6.29	11.39	5.91
08C	390847	761902	09/18/1974	1140	.0	340	9	0	23.19	4.87	8.82	4.21
08C	390847	761902	09/18/1974	1138	2.0	340	9	0	23.07	5.09	9.22	4.54
08C	390847	761902	09/18/1974	1136	4.0	340	9	0	23.09	5.72	10.36	5.39
08C	390847	761902	09/18/1974	1134	6.0	340	9	0	23.57	6.70	12.12	6.59
08C	390847	761902	09/18/1974	1132	8.0	340	9	0	23.62	6.84	12.38	6.77
08C	390847	761902	09/18/1974	1130	9.0	340	9	0	23.68	6.84	12.38	6.75
08C	390847	761902	11/25/1974	1135	.0	200	6	0	8.94	5.12	9.27	7.11
08C	390847	761902	11/25/1974	1133	2.0	200	6	0	8.93	5.92	10.71	8.23
08C	390847	761902	11/25/1974	1131	4.0	200	6	0	8.95	6.53	11.81	9.08
08C	390847	761902	11/25/1974	1129	6.0	200	6	0	9.31	7.00	12.67	9.72
08C	390847	761902	11/25/1974	1127	8.0	200	6	0	9.70	7.33	13.27	10.13
08C	390847	761902	11/25/1974	1125	9.0	200	6	0	10.00	7.68	13.90	10.59
09A	390411	761605	12/14/1973	930	.0	310	6	2	6.58	4.32	7.84	6.17

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
09A	390411	761605	12/14/1973	1015	2.0	310	6	2	6.35	4.72	8.54	6.74
09A	390411	761605	12/14/1973	1028	4.0	310	6	2	6.68	5.39	9.75	7.67
09A	390411	761605	12/14/1973	1033	6.0	310	6	2	6.68	5.59	10.06	7.92
09A	390411	761605	12/14/1973	1040	8.0	310	6	2	8.21	6.55	11.84	9.19
09A	390411	761605	01/24/1974	1530	.0	315	4	2	3.71	3.75	6.79	5.46
09A	390411	761605	01/24/1974	1535	2.0	315	4	2	3.65	3.72	6.75	5.43
09A	390411	761605	01/24/1974	1520	4.0	315	4	2	3.88	4.47	8.11	6.51
09A	390411	761605	01/24/1974	1615	6.0	315	4	2	4.11	6.06	10.96	8.77
09A	390411	761605	01/24/1974	1620	8.0	315	4	2	4.17	6.79	12.28	9.81
09A	390411	761605	03/21/1974	821	.0				6.12	3.46	6.27	4.96
09A	390411	761605	03/21/1974	819	2.0				6.12	3.47	6.30	4.99
09A	390411	7 1605	03/21/1974	817	4.0				6.13	3.93	7.13	5.64
09A	390411	761605	03/21/1974	815	6.0				6.08	6.36	11.50	9.09
09A	390411	761605	05/02/1974	936	.0	10	5	2	15.73	2.65	4.81	2.74
09A	390411	761605	05/02/1974	934	2.0	10	5	2	15.72	2.64	4.80	2.74
09A	390411	761605	05/02/1974	932	4.0	10	5	2	15.43	2.93	5.32	3.19
09A	390411	761605	05/02/1974	930	6.0	10	5	2	13.22	3.88	7.03	4.85
09A	390411	761605	06/14/1974	1108	.0	100	6	0	24.18	3.44	6.24	2.01
09A	390411	761605	06/14/1974	1106	2.0	100	6	0	22.72	3.39	6.15	2.31
09A	390411	761605	06/14/1974	1104	4.0	100	6	0	22.45	3.76	6.81	2.87
09A	390411	761605	06/14/1974	1102	6.0	100	6	0	18.38	7.04	12.73	8.28
09A	390411	761605	06/14/1974	1100	8.4	100	6	0	17.79	7.75	14.02	9.38
09A	390411	761605	07/31/1974	1618	.0			1	28.77	5.30	9.60	3.23
09A	390411	761605	07/31/1974	1616	1.7			1	27.43	5.34	9.67	3.68
09A	390411	761605	07/31/1974	1614	3.7			1	25.39	5.88	10.63	4.98
09A	390411	761605	07/31/1974	1612	5.7			1	25.01	5.89	10.66	5.11
09A	390411	761605	07/31/1974	1610	7.7			1	24.66	6.16	11.15	5.57
09A	390411	761605	09/18/1974	1013	.0	140	9	0	23.13	5.65	10.23	5.28
09A	390411	761605	09/18/1974	1011	2.0	140	9	0	23.06	5.67	10.26	5.32
09A	390411	761605	09/18/1974	1009	4.0	140	9	0	23.12	5.93	10.73	5.66
09A	390411	761605	09/18/1974	1007	6.0	140	9	0	23.36	6.30	11.40	6.10
09A	390411	761605	09/18/1974	1005	8.0	140	9	0	23.46	6.81	12.31	6.76
09A	390411	761605	11/25/1974	1048	.0	200	4	1	9.60	7.30	13.21	10.10
09A	390411	761605	11/25/1974	1046	2.0	200	4	1	9.60	7.37	13.33	10.19
09A	390411	761605	11/25/1974	1044	4.0	200	4	1	9.55	7.36	13.31	10.19
09A	390411	761605	11/25/1974	1042	6.0	200	4	1	9.58	7.35	13.29	10.17
09A	390411	761605	11/25/1974	1040	7.5	200	4	1	10.23	7.85	14.20	10.79
10A	390231	762332	12/13/1973	1030	.0	140	15	1	6.77	5.33	9.66	7.59
10A	390231	762332	12/13/1973	1045	2.0	140	15	1	6.67	5.37	9.72	7.64
10A	390231	762332	12/13/1973	1100	4.0	140	15	1	8.49	7.91	14.31	11.08
10A	390231	762332	12/13/1973	1120	6.0	140	15	1	9.31	7.85	14.19	10.90
10A	390231	762332	12/13/1973	1140	8.0	140	15	1	9.55	7.66	13.86	10.61
10A	390231	762332	12/13/1973	1200	10.0	140	15	1	9.40	7.89	14.28	10.95
10A	390231	762332	12/13/1973	1220	11.0	140	15	1	9.39	7.88	14.26	10.94
10A	390231	762332	01/23/1974	1708	.0	0	0	2	3.72	3.25	5.89	4.75
10A	390231	762332	01/23/1974	1706	2.0	0	0	2	3.71	4.61	8.36	6.71
10A	390231	762332	01/23/1974	1704	4.0	0	0	2	4.07	6.35	11.49	9.19
10A	390231	762332	01/23/1974	1702	6.0	0	0	2	4.41	6.97	12.60	10.05
10A	390231	762332	01/23/1974	1700	8.0	0	0	2	4.64	7.38	13.36	10.64
10A	390231	762332	02/11/1974	1258	.0	30	32	1	2.56	5.29	9.58	7.70

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STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
10A	390231	762332	02/11/1974	1256	2.0	30	32	1	2.67	5.76	10.43	8.38
10A	390231	762332	02/11/1974	1254	4.0	30	32	1	2.85	6.08	11.01	8.84
10A	390231	762332	02/11/1974	1252	6.0	30	32	1	3.15	6.24	11.29	9.05
10A	390231	762332	02/11/1974	1250	8.0	30	32	1	3.39	6.78	12.27	9.83
10A	390231	762332	03/20/1974	1240	.0	40	10	0	6.40	3.17	5.76	4.55
10A	390231	762332	03/20/1974	1238	2.0	40	10	0	6.54	3.17	5.75	4.53
10A	390231	762332	03/20/1974	1236	4.0	40	10	0	6.35	3.25	5.89	4.65
10A	390231	762332	03/20/1974	1234	6.0	40	10	0	6.22	3.51	6.36	5.03
10A	390231	762332	03/20/1974	1232	8.0	40	10	0	6.02	6.90	12.48	9.87
10A	390231	762332	03/20/1974	1230	9.0	40	10	0	6.04	7.06	12.78	10.10
10A	390231	762332	05/01/1974	1538	.0	330	18	0	15.91	2.97	5.38	3.15
10A	390231	762332	05/01/1974	1536	2.0	330	18	0	15.75	2.98	5.41	3.20
10A	390231	762332	05/01/1974	1534	4.0	330	18	0	15.74	2.98	5.41	3.20
10A	390231	762332	05/01/1974	1532	6.0	330	18	0	15.21	3.01	5.46	3.33
10A	390231	762332	05/01/1974	1530	8.0	330	18	0	11.61	5.33	9.66	7.10
10A	390231	762332	06/14/1974	1157	.0	100	6	0	24.12	3.33	6.04	1.88
10A	390231	762332	06/14/1974	1155	2.0	100	6	0	22.18	3.60	6.53	2.73
10A	390231	762332	06/14/1974	1153	4.0	100	6	0	21.07	4.65	8.42	4.42
10A	390231	762332	06/14/1974	1151	6.0	100	6	0	18.34	7.50	13.57	8.93
10A	390231	762332	06/14/1974	1149	8.0	100	6	0	17.65	8.20	14.83	10.02
10A	390231	762332	06/14/1974	1147	10.0	100	6	0	17.60	8.35	15.09	10.24
10A	390231	762332	06/14/1974	1145	12.0	100	6	0	17.44	4.83	8.76	5.54
10A	390231	762332	07/31/1974	1243	1.0			1	27.04	5.01	9.08	3.36
10A	390231	762332	07/31/1974	1241	3.0			1	25.64	5.23	9.46	4.04
10A	390231	762332	07/31/1974	1239	5.0			1	25.24	5.52	9.99	4.54
10A	390231	762332	07/31/1974	1237	7.0			1	25.24	5.62	10.17	4.68
10A	390231	762332	07/31/1974	1235	9.0			1	25.17	5.75	10.41	4.87
10A	390231	762332	09/18/1974	912	.0	140	7	0	23.13	5.81	10.53	5.50
10A	390231	762332	09/18/1974	910	2.0	140	7	0	23.31	6.50	11.76	6.38
10A	390231	762332	09/18/1974	908	4.0	140	7	0	23.78	7.73	13.99	7.93
10A	390231	762332	09/18/1974	906	6.0	140	7	0	23.88	8.10	14.65	8.40
10A	390231	762332	09/18/1974	904	8.0	140	7	0	23.91	8.16	14.76	8.47
10A	390231	762332	09/18/1974	902	10.0	140	7	0	23.92	8.21	14.85	8.54
10A	390231	762332	09/18/1974	900	11.0	140	7	0	23.95	8.32	15.05	8.68
10A	390231	762332	11/25/1974	931	.0	200	5	0	9.03	6.87	12.44	9.56
10A	390231	762332	11/25/1974	929	2.0	200	5	0	9.08	6.79	12.29	9.44
10A	390231	762332	11/25/1974	927	4.0	200	5	0	9.38	7.20	13.02	9.98
10A	390231	762332	11/25/1974	925	6.0	200	5	0	9.94	7.74	14.00	10.67
10A	390231	762332	11/25/1974	922	8.0	200	5	0	10.02	7.75	14.01	10.68
10A	390231	762332	11/25/1974	920	9.0	200	5	0	10.23	7.73	13.99	10.63
10B	390227	762136	12/12/1973	1255	.0	275	14	2	7.12	4.50	8.15	6.38
10B	390227	762136	12/12/1973	1253	2.0	275	14	2	7.09	4.48	8.12	6.37
10B	390227	762136	12/12/1973	1251	4.0	275	14	2	7.04	4.54	8.23	6.45
10B	390227	762136	12/12/1973	1249	6.0	275	14	2	7.72	5.55	10.04	7.82
10B	390227	762136	12/12/1973	1247	8.0	275	14	2	8.54	6.19	11.21	8.66
10B	390227	762136	12/12/1973	1245	10.0	275	14	2	9.62	7.86	14.22	10.89
10B	390227	762136	12/13/1973	845	.0	130	12	1	6.84	5.27	9.54	7.50
10B	390227	762136	12/13/1973	855	2.0	130	12	1	6.84	5.32	9.64	7.57
10B	390227	762136	12/13/1973	910	4.0	130	12	1	6.83	5.39	9.76	7.67
10B	390227	762136	12/13/1973	920	6.0	130	12	1	8.24	6.78	12.26	9.51

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
10B	390227	762136	12/13/1973	930	8.0	130	12	1	9.27	7.83	14.17	10.89
10B	390227	762136	12/13/1973	950	10.0	130	12	1	9.39	7.93	14.34	11.00
10B	390227	762136	01/23/1974	1635	.0	0	0	2	3.72	2.69	4.88	3.94
10B	390227	762136	01/23/1974	1540	.0				4.91	2.68	4.87	3.90
10B	390227	762136	01/23/1974	1538	2.0				4.68	2.74	4.97	3.99
10B	390227	762136	01/23/1974	1700	2.0	0	0	2	3.29	2.87	5.21	4.21
10B	390227	762136	01/23/1974	1536	4.0				4.31	4.56	8.26	6.62
10B	390227	762136	01/23/1974	1705	4.0	0	0	2	3.16	4.70	8.52	6.85
10B	390227	762136	01/23/1974	1715	6.0	0	0	2	3.68	6.06	10.96	8.78
10B	390227	762136	01/23/1974	1534	6.0				4.75	6.15	11.12	8.87
10B	390227	762136	01/23/1974	1532	8.0				5.41	7.23	13.08	10.38
10B	390227	762136	01/23/1974	1720	8.0	0	0	2	4.95	8.02	14.51	11.53
10B	390227	762136	01/23/1974	1530	10.0				5.73	7.46	13.50	10.69
10B	390227	762136	01/23/1974	1725	10.0	0	0	2	5.03	8.10	14.66	11.64
10B	390227	762136	02/11/1974	1330	.0	30	32	1	2.49	5.43	9.83	7.90
10B	390227	762136	02/11/1974	1328	2.0	30	32	1	2.49	5.43	9.83	7.90
10B	390227	762136	02/11/1974	1326	4.0	30	32	1	2.56	5.46	9.88	7.94
10B	390227	762136	02/11/1974	1324	6.0	30	32	1	2.56	5.51	9.97	8.01
10B	390227	762136	02/11/1974	1322	8.0	30	32	1	2.62	5.55	10.04	8.07
10B	390227	762136	02/11/1974	1320	10.0	30	32	1	2.70	.52	.96	.80
10B	390227	762136	03/20/1974	940	.0	35	15	1	6.06	2.79	5.06	4.01
10B	390227	762136	03/20/1974	1352	.0	40	10	1	6.73	2.91	5.29	4.16
10B	390227	762136	03/20/1974	1350	2.0	40	10	1	6.45	3.05	5.53	4.36
10B	390227	762136	03/20/1974	938	2.0	35	15	1	6.01	2.92	5.30	4.21
10B	390227	762136	03/20/1974	936	4.0	35	15	1	5.93	3.23	5.86	4.65
10B	390227	762136	03/20/1974	1348	4.0	40	10	1	6.09	4.00	7.25	5.74
10B	390227	762136	03/20/1974	934	6.0	35	15	1	5.96	3.30	5.99	4.75
10B	390227	762136	03/20/1974	1346	6.0	40	10	1	6.07	6.11	11.07	8.75
10B	390227	762136	03/20/1974	932	8.0	35	15	1	6.06	7.07	12.78	10.10
10B	390227	762136	03/20/1974	1344	8.0	40	10	1	6.09	7.22	13.06	10.32
10B	390227	762136	03/20/1974	930	10.0	35	15	1	6.10	7.29	13.19	10.42
10B	390227	762136	03/20/1974	1342	10.0	40	10	1	6.09	7.31	13.22	10.44
10B	390227	762136	03/20/1974	1340	12.0	40	10	1	6.13	7.63	13.80	10.89
10B	390227	762136	05/02/1974	1005	.0	40	9	1	14.86	2.77	5.03	3.06
10B	390227	762136	05/02/1974	742	.0	0	10	2	14.66	2.88	5.22	3.24
10B	390227	762136	05/02/1974	740	2.0	0	10	2	14.69	2.88	5.23	3.24
10B	390227	762136	05/02/1974	1003	2.0	40	9	1	14.87	2.77	5.03	3.05
10B	390227	762136	05/02/1974	738	4.0	0	10	2	14.69	2.88	5.23	3.24
10B	390227	762136	05/02/1974	1001	4.0	40	9	1	14.87	2.78	5.04	3.06
10B	390227	762136	05/02/1974	736	6.0	0	10	2	14.70	2.91	5.28	3.27
10B	390227	762136	05/02/1974	959	6.0	40	9	1	14.86	2.78	5.05	3.07
10B	390227	762136	05/02/1974	734	8.0	0	10	2	14.67	2.92	5.31	3.30
10B	390227	762136	05/02/1974	957	8.0	40	9	1	14.72	2.82	5.11	3.14
10B	390227	762136	05/02/1974	732	10.0	0	10	2	10.73	6.37	11.53	8.66
10B	390227	762136	05/02/1974	730	11.0	0	10	2	10.56	6.56	11.86	8.94
10B	390227	762136	05/02/1974	955	11.0	40	9	1	10.96	6.54	11.84	8.87
10B	390227	762136	06/12/1974	907	.0	300	3	1	22.81	3.04	5.52	1.81
10B	390227	762136	06/12/1974	905	2.0	300	3	1	22.58	3.25	5.89	2.15
10B	390227	762136	06/12/1974	903	4.0	300	3	1	21.50	4.21	7.63	3.72
10B	390227	762136	06/12/1974	901	6.0	300	3	1	18.26	7.03	12.73	8.30

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
108	390227	762136	06/12/1974	859	8.0	300	3	1	17.11	8.21	14.85	10.15
108	390227	762136	06/12/1974	857	10.0	300	3	1	16.82	8.88	16.05	11.13
108	390227	762136	06/12/1974	855	11.0	300	3	1	16.82	8.90	16.09	11.16
108	390227	762136	07/31/1974	1340	.0			1	27.00	5.22	9.45	3.65
108	390227	762136	07/31/1974	1338	2.0			1	24.88	5.51	9.98	4.63
108	390227	762136	07/31/1974	1336	4.0			1	24.78	5.57	10.08	4.73
108	390227	762136	07/31/1974	1334	6.0			1	24.70	5.70	10.32	4.94
108	390227	762136	07/31/1974	1332	8.0			1	24.52	6.03	10.91	5.43
108	390227	762136	07/31/1974	1330	10.0			1	24.37	6.47	11.70	6.06
108	390227	762136	09/18/1974	930	.0	140	7	0	23.14	6.08	11.00	5.86
108	390227	762136	09/18/1974	928	2.0	140	7	0	23.20	6.08	11.00	5.84
108	390227	762136	09/18/1974	926	4.0	140	7	0	23.56	6.68	12.09	6.57
108	390227	762136	09/18/1974	924	6.0	140	7	0	23.59	7.02	12.71	7.02
108	390227	762136	09/18/1974	922	8.0	140	7	0	23.85	7.60	13.75	7.74
108	390227	762136	09/18/1974	920	10.0	140	7	0	24.06	8.53	15.48	8.98
108	390227	762136	09/18/1974	918	12.0	140	7	0	24.08	8.68	15.70	9.14
108	390227	762136	11/25/1974	956	.0	200	3	1	9.18	7.10	12.84	9.86
108	390231	762332	11/25/1974	954	2.0	200	3	1	9.78	7.20	13.02	9.98
108	390227	762136	11/25/1974	952	4.0	200	3	1	9.91	7.89	14.28	10.89
108	390227	762136	11/25/1974	950	6.0	200	3	1	10.32	8.04	14.55	11.05
108	390227	762136	11/25/1974	949	8.0	200	3	1	10.54	.34	15.09	11.44
108	390227	762136	11/25/1974	947	10.0	200	3	1	10.61	8.37	15.14	11.48
108	390227	762136	11/25/1974	945	11.5	200	3	1	10.65	8.39	15.18	11.50
10C	390223	761942	12/12/1973	1525	.0	270	14	2	6.93	4.29	7.78	6.10
10C	390223	761942	12/12/1973	1545	2.0	270	14	2	6.93	4.43	8.02	6.30
10C	390223	761942	12/12/1973	1600	4.5	270	14	2	8.20	6.20	11.22	8.70
10C	390223	761942	01/23/1974	1510	.0	0	0	2	3.37	2.39	4.35	3.52
10C	390223	761942	01/23/1974	1520	2.0	0	0	2	3.22	2.68	4.87	3.93
10C	390223	761942	01/23/1974	1530	4.0	0	0	2	3.53	4.51	8.17	6.57
10C	390223	761942	01/23/1974	1550	6.0	0	0	2	4.10	6.40	11.59	9.26
10C	390223	761942	02/11/1974	1356	.0				2.34	5.07	9.18	7.38
10C	390223	761942	02/11/1974	1354	2.0				2.33	5.07	9.18	7.38
10C	390223	761942	02/11/1974	1352	4.0				2.38	5.09	9.22	7.42
10C	390223	761942	02/11/1974	1350	6.0				2.26	5.06	9.17	7.37
10C	390223	761942	03/20/1974	1501	.0	40	10	0	6.57	3.27	5.93	4.67
10C	390223	761942	03/20/1974	1459	2.0	40	10	0	6.19	3.78	6.85	5.41
10C	390223	761942	03/20/1974	1457	4.0	40	10	0	6.14	4.20	7.61	6.02
10C	390223	761942	03/20/1974	1455	6.0	40	10	0	6.11	6.36	11.50	9.09
10C	390223	761942	06/14/1974	1221	.0	225	6	0	24.12	3.08	5.58	1.54
10C	390223	761942	06/14/1974	1219	2.0	225	6	0	22.33	3.36	6.09	2.36
10C	390223	761942	06/14/1974	1217	4.0	225	6	0	21.80	4.23	7.67	3.68
10C	390223	761942	06/14/1974	1215	5.3	225	6	0	19.44	6.48	11.73	7.29
10C	390223	761942	07/31/1974	1519	.4			1	28.20	5.46	9.89	3.62
10C	390223	761942	07/31/1974	1517	2.4			1	25.04	6.08	11.01	5.36
10C	390223	761942	07/31/1974	1515	4.4			1	24.96	6.31	11.41	5.68
10C	390223	761942	09/18/1974	948	.0	140	7	0	23.14	6.19	11.20	6.01
10C	390223	761942	09/18/1974	946	2.0	140	7	0	23.13	6.20	11.23	6.03
10C	390223	761942	09/18/1974	944	4.0	140	7	0	23.13	6.24	11.30	6.09
10C	390223	761942	09/18/1974	942	6.0	140	7	0	23.38	6.39	11.56	6.22
10C	390223	761942	09/18/1974	940	7.0	140	7	0	23.79	7.79	14.10	8.01

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
10C	390223	761942	11/25/1974	1016	.0	200	2	1	9.94	7.63	13.80	10.52
10C	390223	761942	11/25/1974	1014	2.0	200	2	1	9.97	7.82	14.15	10.79
10C	390223	761942	11/25/1974	1012	4.0	200	2	1	10.00	7.96	14.39	10.97
10C	390223	761942	11/25/1974	1010	6.0	200	2	1	10.17	7.98	14.43	10.98
11A	385810	762458	12/12/1973	851	.0	270	18	1	6.93	5.85	10.58	8.31
11A	385810	762458	12/12/1973	930	.0	260	16	1	6.92	5.80	10.50	8.25
11A	385810	762458	12/12/1973	849	2.0	270	18	1	6.96	5.85	10.58	8.30
11A	385810	762458	12/12/1973	945	2.0	260	16	1	6.98	5.81	10.52	8.26
11A	385810	762458	12/12/1973	1000	4.0	260	16	1	7.02	5.85	10.59	8.31
11A	385810	762458	12/12/1973	847	4.0	270	18	1	7.01	5.86	10.61	8.33
11A	385810	762458	12/12/1973	845	5.0	270	18	1	7.10	5.89	10.65	8.35
11A	385810	762458	12/12/1973	1020	6.0	260	16	1	8.73	6.67	12.07	9.31
11A	385810	762458	01/23/1974	845	.0			4	3.06	3.03	5.49	4.43
11A	385810	762458	01/23/1974	738	.0				3.78	3.10	5.63	4.53
11A	385810	762458	01/23/1974	736	1.0				3.67	3.17	5.76	4.64
11A	385810	762458	01/23/1974	858	2.0			4	3.08	3.17	5.75	4.64
11A	385810	762458	01/23/1974	734	2.0				3.83	3.32	6.02	4.85
11A	385810	762458	01/23/1974	732	4.0				4.05	4.05	7.33	5.89
11A	385810	762458	01/23/1974	910	4.0			4	3.34	3.77	6.84	5.50
11A	385810	762458	01/23/1974	920	5.0			4	3.48	4.62	8.36	6.72
11A	385810	762458	01/23/1974	730	6.0				4.86	7.18	12.99	10.34
11A	385810	762458	02/11/1974	1006	.0	30	36	1	2.73	5.81	10.51	8.45
11A	385810	762458	02/11/1974	1004	2.0	30	36	1	2.83	5.82	10.54	8.46
11A	385810	762458	02/11/1974	1002	4.0	30	36	1	2.79	5.83	10.55	8.47
11A	385810	762458	02/11/1974	1000	6.0	30	36	1	2.83	5.86	10.61	8.52
11A	385810	762458	03/20/1974	853	.0	30	15	2	6.20	3.59	6.50	5.14
11A	385810	762458	03/20/1974	751	.0	40	13	1	6.16	3.57	6.47	5.12
11A	385810	762458	03/20/1974	851	2.0	30	15	2	6.20	3.59	6.51	5.15
11A	385810	762458	03/20/1974	749	2.0	40	13	1	6.16	3.59	6.52	5.16
11A	385810	762458	03/20/1974	747	4.0	40	13	1	6.18	3.63	6.58	5.21
11A	385810	762458	03/20/1974	849	4.0	30	15	2	6.18	3.74	6.77	5.36
11A	385810	762458	03/20/1974	745	6.0	40	13	1	6.17	3.91	7.08	5.60
11A	385810	762458	03/20/1974	847	6.0	30	15	2	6.17	4.21	7.63	6.03
11A	385810	762458	03/20/1974	845	6.6	30	15	2	6.17	4.32	7.82	6.18
11A	385810	762458	05/01/1974	813	.0	285	15		14.78	3.95	7.16	4.71
11A	385810	762458	05/01/1974	811	2.0	285	15		14.77	3.95	7.16	4.71
11A	385810	762458	05/01/1974	809	4.0	285	15		14.16	4.02	7.28	4.90
11A	385810	762458	05/01/1974	807	6.0	285	15		13.41	4.13	7.48	5.16
11A	385810	762458	05/01/1974	805	8.0	285	15		13.20	4.18	7.58	5.27
11A	385810	762458	05/02/1974	719	.0	40	5	2	14.65	2.89	5.25	3.26
11A	385810	762458	05/02/1974	717	2.0	40	5	2	14.92	2.90	5.27	3.23
11A	385810	762458	05/02/1974	715	4.7	40	5	2	14.89	2.94	5.35	3.30
11A	385810	762458	06/12/1974	806	.0	290	3	1	22.64	3.41	6.18	2.36
11A	385810	762458	06/12/1974	804	2.0	290	3	1	22.38	3.75	6.80	2.89
11A	385810	762458	06/12/1974	802	4.0	290	3	1	20.58	4.84	8.77	4.79
11A	385810	762458	06/12/1974	800	6.0	290	3	1	18.78	6.29	11.38	7.17
11A	385810	762458	07/31/1974	719	.4			4	25.34	6.29	11.37	5.55
11A	385810	762458	07/31/1974	717	2.4			4	25.13	6.44	11.65	5.82
11A	385810	762458	07/31/1974	715	4.4			4	24.88	6.52	11.80	6.00
11A	385810	762458	09/18/1974	730	.0	140	7	0	23.00	6.49	11.75	6.45

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
11A	385810	762458	09/18/1974	728	2.0	140	7	0	23.17	6.74	12.20	6.75
11A	385810	762458	09/18/1974	726	4.0	140	7	0	23.44	6.89	12.47	6.89
11A	385810	762458	09/18/1974	724	6.0	140	7	0	23.39	7.27	13.14	7.40
11A	385810	762458	11/25/1974	751	.0	200	5	0	10.13	8.15	14.75	11.23
11A	385810	762458	11/25/1974	749	2.0	200	5	0	10.26	8.24	14.91	11.34
11A	385810	762458	11/25/1974	747	4.0	200	5	0	10.42	8.33	15.07	11.44
11A	385810	762458	11/25/1974	745	5.0	200	5	0	10.43	8.34	15.08	11.45
11B	385756	762348	12/12/1973	1136	.0	270	17	1	7.65	5.60	10.14	7.90
11B	385756	762348	12/12/1973	1146	2.0	270	17	1	7.50	5.62	10.18	7.95
11B	385756	762348	12/12/1973	1156	4.0	270	17	1	7.48	5.61	10.15	7.92
11B	385756	762348	12/12/1973	1205	6.0	270	17	1	7.73	5.81	10.51	8.18
11B	385756	762348	12/12/1973	1212	8.0	270	17	1	8.13	5.46	9.89	7.66
11B	385756	762348	12/12/1973	1220	10.0	270	17	1	9.28	5.35	9.68	7.39
11B	385756	762348	12/12/1973	1228	12.0	270	17	1	9.89	8.53	15.43	11.79
11B	385756	762348	12/12/1973	1235	13.0	270	17	1	9.91	8.56	15.49	11.83
11B	385756	762348	01/23/1974	1009	.0				2.96	2.96	5.37	4.34
11B	385756	762348	01/23/1974	1030	2.0				2.93	3.07	5.56	4.49
11B	385756	762348	01/23/1974	1037	4.0				3.57	4.67	8.46	6.80
11B	385756	762348	01/23/1974	1045	6.0				4.03	6.28	11.36	9.08
11B	385756	762348	01/23/1974	1100	8.0				4.42	6.88	12.44	9.92
11B	385756	762348	01/23/1974	1120	10.0				4.97	8.01	14.48	11.51
11B	385756	762348	01/23/1974	1126	12.0				5.24	8.44	15.27	12.11
11B	385756	762348	01/23/1974	1140	13.0				5.23	8.42	15.23	12.09
11B	385756	762348	02/11/1974	1047	.0	30	40	1	2.81	5.84	10.58	8.49
11B	385756	762348	02/11/1974	1045	2.0	30	40	1	2.77	5.85	10.59	8.50
11B	385756	762348	02/11/1974	1043	4.0	30	40	1	2.76	5.85	10.58	8.50
11B	385756	762348	02/11/1974	1041	6.0	30	40	1	2.81	5.84	10.56	8.48
11B	385756	762348	02/11/1974	1039	8.0	30	40	1	2.79	5.85	10.58	8.50
11B	385756	762348	02/11/1974	1037	10.0	30	40	1	4.49	7.90	14.29	11.39
11B	385756	762348	02/11/1974	1035	12.3	30	40	1	4.81	8.55	15.45	12.29
11B	385756	762348	03/20/1974	854	.0	40	10	1	6.05	3.73	6.77	5.36
11B	385756	762348	03/20/1974	852	2.0	40	10	1	6.02	3.84	6.97	5.52
11B	385756	762348	03/20/1974	850	4.0	40	10	1	5.99	3.86	6.99	5.54
11B	385756	762348	03/20/1974	848	6.0	40	10	1	6.08	5.06	9.16	7.25
11B	385756	762348	03/20/1974	846	8.0	40	10	1	6.05	5.55	10.05	7.95
11B	385756	762348	03/20/1974	844	10.0	40	10	1	6.03	6.98	12.63	9.98
11B	385756	762348	03/20/1974	842	12.0	40	10	1	6.06	7.23	13.08	10.34
11B	385756	762348	03/20/1974	840	13.0	40	10	1	6.08	7.51	13.59	10.73
11B	385756	762348	05/01/1974	1029	.0	285	25	1	15.14	3.19	5.79	3.60
11B	385756	762348	05/01/1974	1027	2.0	285	25	1	15.12	3.19	5.79	3.60
11B	385756	762348	05/01/1974	1025	4.0	285	25	1	14.92	3.21	5.83	3.66
11B	385756	762348	05/01/1974	1023	6.0	285	25	1	14.90	3.31	6.01	3.81
11B	385756	762348	05/01/1974	1021	8.0	285	25	1	14.34	4.07	7.38	4.94
11B	385756	762348	05/01/1974	1019	10.0	285	25	1	12.56	4.76	8.61	6.16
11B	385756	762348	05/01/1974	1017	12.0	285	25	1	11.75	5.40	9.77	7.17
11B	385756	762348	05/01/1974	1015	13.0	285	25	1	11.37	5.80	10.50	7.78
11B	385756	762348	06/14/1974	1259	.0			0	23.81	3.44	6.24	2.11
11B	385756	762348	06/14/1974	1257	2.0			0	22.53	3.47	6.29	2.46
11B	385756	762348	06/14/1974	1255	4.0			0	22.11	3.61	6.54	2.75
11B	385756	762348	06/14/1974	1253	6.0			0	20.36	5.42	9.21	5.63

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
11B	385756	762348	06/14/1974	1251	8.0			0	17.73	8.08	14.61	9.84
11B	385756	762348	06/14/1974	1249	10.0			0	17.43	8.76	15.85	10.85
11B	385756	762348	06/14/1974	1247	12.0			0	17.51	8.93	16.14	11.05
11B	385756	762348	06/14/1974	1245	14.4			0	17.50	9.03	16.32	11.19
11B	385756	762348	07/31/1974	827	.0			4	25.23	6.03	10.92	5.24
11B	385756	762348	07/31/1974	825	2.0			4	24.98	6.40	11.58	5.80
11B	385756	762348	07/31/1974	823	4.0			4	24.88	6.45	11.68	5.91
11B	385756	762348	07/31/1974	821	6.0			4	24.82	6.52	11.80	6.02
11B	385756	762348	07/31/1974	819	8.0			4	24.41	6.96	12.58	6.71
11B	385756	762348	07/31/1974	817	10.0			4	23.62	8.23	14.89	8.65
11B	385756	762348	07/31/1974	815	12.0			4	23.44	8.72	15.77	9.36
11B	385756	762348	09/18/1974	756	.0	140	7	0	23.10	6.60	11.95	6.58
11B	385756	762348	09/18/1974	754	2.0	140	7	0	23.15	6.61	11.97	6.58
11B	385756	762348	09/18/1974	752	4.0	140	7	0	23.25	6.63	12.00	6.58
11B	385756	762348	09/18/1974	750	6.0	140	7	0	23.57	6.98	12.63	6.97
11B	385756	762348	09/18/1974	748	8.0	140	7	0	23.76	7.58	13.71	7.73
11B	385756	762348	09/18/1974	746	10.0	140	7	0	23.88	8.04	14.54	8.32
11B	385756	762348	09/18/1974	744	12.0	140	7	0	23.95	8.36	15.12	8.74
11B	385756	762348	09/18/1974	742	14.0	140	7	0	24.06	8.73	15.79	9.21
11B	385756	762348	09/18/1974	740	15.0	140	7	0	24.04	8.81	15.94	9.32
11B	385756	762348	11/25/1974	814	.0	200	5	1	10.22	8.12	14.68	11.17
11B	385756	762348	11/25/1974	812	2.0	200	5	1	10.26	8.08	14.61	11.11
11B	385756	762348	11/25/1974	810	4.0	200	5	1	10.35	8.28	14.97	11.38
11B	385756	762348	11/25/1974	808	6.0	200	5	1	10.49	8.35	15.11	11.46
11B	385756	762348	11/25/1974	806	8.0	200	5	1	10.58	8.33	15.07	11.43
11B	385756	762348	11/25/1974	804	10.0	200	5	1	10.57	8.37	15.11	11.43
11B	385756	762348	11/25/1974	802	12.0	200	5	1	10.96	8.49	15.35	11.59
11B	385756	762348	11/25/1974	800	13.0	200	5	1	10.94	8.56	15.47	11.69
11C	385743	762248	12/12/1973	1304	.0	250	15	2	7.17	5.17	9.37	7.34
11C	385743	762248	12/12/1973	1320	2.0	250	15	2	7.11	5.21	9.44	7.40
11C	385743	762248	12/12/1973	1335	4.0	250	15	2	8.06	6.58	11.91	9.25
11C	385743	762248	12/12/1973	1350	8.0	250	15	2	9.06	7.28	13.17	10.13
11C	385743	762248	12/12/1973	1405	12.0	250	15	2	9.38	8.13	14.71	11.29
11C	385743	762248	12/12/1973	1420	16.0	250	15	2	9.59	8.36	15.12	11.58
11C	385743	762248	12/12/1973	1435	20.0	250	15	2	9.94	8.77	15.86	12.12
11C	385743	762248	12/12/1973	1450	24.0	250	15	2	10.03	8.91	16.11	12.30
11C	385743	762248	12/12/1973	1504	27.5	250	15	2	10.00	9.09	16.44	12.56
11C	385743	762248	01/23/1974	926	.0	175	13	4	4.12	3.57	6.48	5.21
11C	385743	762248	01/23/1974	1215	.0	160	6	0	3.63	3.86	7.00	5.63
11C	385743	762248	01/23/1974	1220	2.0	160	6	0	3.34	3.82	6.93	5.58
11C	385743	762248	01/23/1974	924	2.0	175	13	4	4.43	4.77	8.64	6.91
11C	385743	762248	01/23/1974	922	4.0	175	13	4	4.66	5.76	10.42	8.31
11C	385743	762248	01/23/1974	1235	4.0	160	6	0	3.38	4.72	8.56	6.87
11C	385743	762248	01/23/1974	920	6.0	175	13	4	5.03	6.94	12.56	9.99
11C	385743	762248	01/23/1974	918	8.0	175	13	4	5.24	7.36	13.31	10.57
11C	385743	762248	01/23/1974	1300	8.0	160	6	0	4.39	6.98	12.62	10.07
11C	385743	762248	01/23/1974	916	10.0	175	13	4	5.82	8.35	15.11	11.94
11C	385743	762248	01/23/1974	914	12.0	175	13	4	5.92	8.56	15.48	12.23
11C	385743	762248	01/23/1974	1315	12.0	160	6	0	5.00	8.10	14.66	11.65
11C	385743	762248	01/23/1974	912	14.0	175	13	4	5.93	8.63	15.60	12.33

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
11C	385743	762248	01/23/1974	1320	16.0	160	6	0	5.33	8.66	15.66	12.41
11C	385743	762248	01/23/1974	910	16.0	175	13	4	5.95	8.74	15.81	12.49
11C	385743	762248	01/23/1974	908	18.0	175	13	4	5.96	8.79	15.90	12.56
11C	385743	762248	01/23/1974	1350	20.0	160	6	0	5.39	8.74	15.80	2.52
11C	385743	762248	01/23/1974	906	20.0	175	13	4	6.01	9.00	16.28	12.85
11C	385743	762248	01/23/1974	904	22.0	175	13	4	6.05	9.13	16.51	13.03
11C	385743	762248	01/23/1974	902	24.0	175	13	4	6.03	9.13	16.52	13.04
11C	385743	762248	01/23/1974	1400	24.0	160	6	0	5.45	8.84	15.98	12.66
11C	385743	762248	01/23/1974	900	26.0	175	13	4	6.05	9.12	16.49	13.01
11C	385743	762248	01/23/1974	1405	27.0	160	6	0	5.56	9.06	16.39	12.97
11C	385743	762248	02/11/1974	1148	.0	30	40	1	2.64	5.57	10.09	8.11
11C	385743	762248	02/11/1974	1146	2.0	30	40	1	2.59	5.60	10.14	8.15
11C	385743	762248	02/11/1974	1144	4.0	30	40	1	2.53	5.59	10.12	8.14
11C	385743	762248	02/11/1974	1142	6.0	30	40	1	2.51	5.58	10.10	8.11
11C	385743	762248	02/11/1974	1140	8.0	30	40	1	2.56	5.59	10.11	8.13
11C	385743	762248	02/11/1974	1138	10.0	30	40	1	2.62	5.59	10.12	8.13
11C	385743	762248	02/11/1974	1136	12.0	30	40	1	4.68	8.57	15.49	12.32
11C	385743	762248	02/11/1974	1134	16.0	30	40	1	4.67	8.75	15.83	12.59
11C	385743	762248	02/11/1974	1132	20.0	30	40	1	4.98	9.13	16.51	13.11
11C	385743	762248	02/11/1974	1130	24.0	30	40	1	5.26	9.65	17.45	13.83
11C	385743	762248	03/20/1974	1046	.0	40	13	1	6.32	3.90	7.08	5.59
11C	385743	762248	03/20/1974	1044	4.0	40	13	1	6.04	5.12	9.28	7.34
11C	385743	762248	03/20/1974	1042	8.0	40	13	1	6.03	6.31	11.42	9.03
11C	385743	762248	03/20/1974	1040	12.0	40	13	1	6.16	7.26	13.14	10.37
11C	385743	762248	03/20/1974	1038	16.0	40	13	1	6.42	8.05	14.56	11.47
11C	385743	762248	03/20/1974	1036	20.0	40	13	1	6.66	8.34	15.08	11.86
11C	385743	762248	03/20/1974	1034	24.0	40	13	1	6.78	8.47	15.32	12.03
11C	385743	762248	03/20/1974	1032	28.0	40	13	1	6.85	8.56	15.49	12.16
11C	385743	762248	03/20/1974	1030	29.0	40	13	1	6.84	8.55	15.46	12.14
11C	385743	762248	05/01/1974	1345	.0	285	15	0	15.44	3.07	5.57	3.38
11C	385743	762248	05/01/1974	1343	4.0	285	15	0	15.35	3.10	5.63	3.44
11C	385743	762248	05/01/1974	1341	8.0	285	15	0	12.96	4.16	7.54	5.28
11C	385743	762248	05/01/1974	1339	12.0	285	15	0	11.38	5.18	9.38	6.91
11C	385743	762248	05/01/1974	1337	16.0	285	15	0	10.43	6.39	11.56	8.72
11C	385743	762248	05/01/1974	1335	20.0	285	15	0	10.18	6.18	11.18	8.46
11C	385743	762248	06/12/1974	724	.0	315	5	0	22.28	3.37	6.12	2.39
11C	385743	762248	06/12/1974	722	2.0	315	5	0	22.19	3.57	6.47	2.68
11C	385743	762248	06/12/1974	720	4.0	315	5	0	20.38	4.93	8.93	4.96
11C	385743	762248	06/12/1974	718	6.0	315	5	0	18.59	6.60	11.95	7.64
11C	385743	762248	06/12/1974	716	8.0	315	5	0	17.06	8.42	15.22	10.45
11C	385743	762248	06/12/1974	714	10.0	315	5	0	17.00	9.08	16.42	11.37
11C	385743	762248	06/12/1974	712	12.0	315	5	0	17.23	9.30	16.82	11.63
11C	385743	762248	06/12/1974	710	14.0	315	5	0	17.31	9.45	17.09	11.81
11C	385743	762248	06/12/1974	708	16.0	315	5	0	17.34	9.53	17.23	11.92
11C	385743	762248	06/12/1974	706	18.0	315	5	0	17.37	9.58	17.32	11.98
11C	385743	762248	06/12/1974	704	20.0	315	5	0	17.37	9.59	17.33	11.99
11C	385743	762248	06/12/1974	702	24.0	315	5	0	17.38	9.60	17.35	12.00
11C	385743	762248	06/12/1974	700	26.0	315	5	0	17.50	9.59	17.33	11.96
11C	385743	762248	07/31/1974	1012	2.4			4	25.13	6.36	11.50	5.71
11C	385743	762248	07/31/1974	1010	6.4			4	24.21	7.14	12.93	7.02

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	WIND DIR D C205	WIND KNTS C206	WEATHER CODE C207	WATER TEMP C C211	CHLORNT H20 PPT C216	SALINT H20 PPT C217	WATER SIGMA T C218
**												
11C	385743	762248	07/31/1974	1008	10.4			4	23.57	8.44	15.27	8.95
11C	385743	762248	07/31/1974	1006	14.4			4	23.36	9.09	16.43	9.88
11C	385743	762248	07/31/1974	1004	18.4			4	23.27	9.47	17.13	10.42
11C	385743	762248	07/31/1974	1002	22.4			4	23.28	9.78	17.69	10.84
11C	385743	762248	07/31/1974	1000	26.4			4	23.31	9.87	17.84	10.95
11C	385743	762248	09/18/1974	824	.0	140	7	0	23.09	6.61	11.96	6.59
11C	385743	762248	09/18/1974	822	2.0	140	7	0	23.16	6.62	11.98	6.59
11C	385743	762248	09/18/1974	820	4.0	140	7	0	23.31	6.69	12.11	6.65
11C	385743	762248	09/18/1974	818	6.0	140	7	0	23.38	6.78	12.28	6.75
11C	385743	762248	09/18/1974	816	8.0	140	7	0	23.61	7.14	12.92	7.17
11C	385743	762248	09/18/1974	814	10.0	140	7	0	23.99	8.10	14.65	8.37
11C	385743	762248	09/18/1974	812	12.0	140	7	0	24.11	8.52	15.40	8.90
11C	385743	762248	09/18/1974	810	14.0	140	7	0	24.13	8.67	15.68	9.11
11C	385743	762248	09/18/1974	808	16.0	140	7	0	24.18	8.83	15.96	9.30
11C	385743	762248	09/18/1974	806	18.0	140	7	0	24.20	8.99	16.25	9.52
11C	385743	762248	09/18/1974	804	20.0	140	7	0	24.29	9.22	16.68	9.81
11C	385743	762248	09/18/1974	802	22.0	140	7	0	24.34	9.61	17.38	10.33
11C	385743	762248	09/18/1974	800	26.0	140	7	0	24.39	9.88	17.86	10.67
11C	385743	762248	09/18/1974	758	27.0	140	7	0	24.38	9.88	17.87	10.68
11C	385743	762248	11/25/1974	843	.0	200	5	1	9.84	7.80	14.10	10.77
11C	385743	762248	11/25/1974	841	2.0	200	5	1	9.87	7.73	13.98	10.67
11C	385743	762248	11/25/1974	839	4.0	200	5	1	10.05	7.87	14.23	10.89
11C	385743	762248	11/25/1974	837	6.0	200	5	1	10.13	8.05	14.56	11.09
11C	385743	762248	11/25/1974	835	8.0	200	5	1	10.13	8.22	14.87	11.32
11C	385743	762248	11/25/1974	833	10.0	200	5	1	10.17	8.32	15.04	11.46
11C	385743	762248	11/25/1974	831	12.0	200	5	1	10.34	8.38	15.15	11.52
11C	385743	762248	11/25/1974	829	16.0	200	5	1	11.27	8.71	15.74	11.85
11C	385743	762248	11/25/1974	827	20.0	200	5	1	11.62	9.01	16.30	12.23
11C	385743	762248	11/25/1974	825	24.0	200	5	1	11.86	9.39	16.97	12.71

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
01A	393255	763255	12/13/1973	1427	.0	41.33	15.2	2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1430	2.0	42.57		2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1433	4.0	40.55		2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1436	6.0	41.57	14.3	2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1439	8.0	42.42		2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1442	10.0	42.74	12.6	2	XKH2952	10595	6260	12.0
01A	393255	760447	12/13/1973	1445	11.0			2	XKH2952	10595	6260	12.0
01A	393255	760447	01/24/1974	1307	.0	32.49	13.1		XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	720	.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	1305	2.0	35.03			XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	718	2.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	716	4.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	1303	4.0	36.07			XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	714	6.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	1301	6.0	31.27	12.8		XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	712	8.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	1259	8.0	35.55			XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	710	10.0				XKH2952	10595	6260	11.2
01A	393255	760447	01/24/1974	1257	10.0	37.10			XKH2952	10595	6260	12.8
01A	393255	760447	01/24/1974	1255	11.8	33.86	11.9		XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1352	.0	4.78	19.6	1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1350	2.0	5.76		1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1348	4.0	5.31		1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1346	6.0	4.92	23.7	1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1344	8.0	6.34		1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1342	10.0	4.84		1	XKH2952	10595	6260	12.8
01A	393255	760447	02/12/1974	1340	11.8	5.00	24.7	1	XKH2952	10595	6260	12.8
01A	393255	760447	03/21/1974	1157	.0	11.30		2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1155	2.0	13.06		2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1153	4.0	13.18		2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1151	6.0	13.32	13.1	2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1149	8.0	13.20		2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1147	10.0	12.66		2	XKH2952	10595	6260	14.0
01A	393255	760447	03/21/1974	1145	13.0	14.86	14.7	2	XKH2952	10595	6260	14.0
01A	393255	760447	05/03/1974	1107	.0	9.58		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1105	2.0	11.63		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1103	4.0	12.46		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1101	6.0	15.03		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1059	8.0	21.50		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1057	10.0	43.34		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1055	12.0	16.73		4	XKH2952	10595	6260	12.8
01A	393255	760447	05/03/1974	1053	12.8			4	XKH2952	10595	6260	12.8
01A	393255	760447	06/13/1974	1242	.0	6.24		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1240	2.0	7.53		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1238	4.0	7.36		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1236	6.0	9.10		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1234	8.0	9.76		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1232	10.0	11.16		9	XKH2952	10595	6260	13.7
01A	393255	760447	06/13/1974	1230	12.7	13.20		9	XKH2952	10595	6260	13.7
01A	393255	760447	07/31/1974	1556	.0	23.89		9	XKH2952	10595	6260	16.0

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
01A	393255	760447	07/31/1974	1554	2.0	6.60		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1552	4.0	8.88		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1550	6.0	6.90		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1548	8.0	11.67		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1546	10.0	13.79		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1544	12.0	13.52		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1542	14.0	20.74		9	XKH2952	10595	6260	16.0
01A	393255	760447	07/31/1974	1540	15.0	29.72		9	XKH2952	10595	6260	16.0
01A	393255	760447	09/20/1974	1002	.0	4.68		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	959	2.0	5.16		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	957	4.0	4.92		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	955	6.0	4.92		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	952	8.0	5.09		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	949	10.0	6.03		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	946	12.0	7.70		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	943	14.0	10.16		9	XKH2952	10595	6260	
01A	393255	760447	09/20/1974	940	16.0	12.29		9	XKH2952	10595	6260	
02A	392632	760303	12/14/1973	1257	.0			2	XJH6570	10681	5872	4.0
02A	392632	760303	12/14/1973	1256	2.0			2	XJH6570	10681	5872	4.0
02A	392632	760303	12/14/1973	1255	3.5			2	XJH6570	10681	5872	4.0
02A	392632	760303	01/23/1974	1602	.0				XJH6570	10681	5872	3.3
02A	392632	760303	01/23/1974	1600	2.3				XJH6570	10681	5872	3.3
02A	392632	760303	02/12/1974	1247	.0			1	XJH6570	10681	5872	3.6
02A	392632	760303	02/12/1974	1245	2.6			1	XJH6570	10681	5872	3.6
02A	392632	760303	03/20/1974	1622	.0	16.37		2	XJH6570	10681	5872	3.0
02A	392632	760303	03/20/1974	1620	2.0	68.34		2	XJH6570	10681	5872	3.0
02A	392632	760303	05/03/1974	754	.0	22.22		4	XJH6570	10681	5872	3.6
02A	392632	760303	05/03/1974	752	2.0	19.77		4	XJH6570	10681	5872	3.6
02A	392632	760303	05/03/1974	754	3.6	21.90		4	XJH6570	10681	5872	3.6
02A	392632	760303	06/13/1974	1402	.0	16.16		9	XJH6570	10681	5872	2.7
02A	392632	760303	06/13/1974	1400	1.7	21.89		9	XJH6570	10681	5872	2.7
02A	392632	760303	07/31/1974	1427	.0			9	XJH6570	10681	5872	3.0
02A	392632	760303	07/31/1974	1425	2.0			9	XJH6570	10681	5872	3.0
02A	392632	760303	09/20/1974	807	.0	18.87		9	XJH6570	10681	5872	
02A	392632	760303	09/20/1974	804	2.0	25.19		9	XJH6570	10681	5872	
02A	392632	760303	09/20/1974	801	3.0	43.88		9	XJH6570	10681	5872	
02B	392635	760200	12/14/1973	1304	.0			2	XJH6680	10732	5877	5.0
02B	392635	760200	12/14/1973	1302	2.0			2	XJH6680	10732	5877	5.0
02B	392635	760200	12/14/1973	1300	4.4			2	XJH6680	10732	5877	5.0
02B	392635	760200	01/23/1974	1549	.0				XJH6680	10732	5877	4.2
02B	392635	760200	01/23/1974	1547	2.0				XJH6680	10732	5877	4.2
02B	392635	760200	01/23/1974	1545	3.2				XJH6680	10732	5877	4.2
02B	392635	760200	03/20/1974	1604	.0	12.66	16.6	2	XJH6680	10732	5877	4.2
02B	392635	760200	03/20/1974	1602	2.0	16.43	14.1	2	XJH6680	10732	5877	4.2
02B	392635	760200	03/20/1974	1600	3.2	17.23	13.9	2	XJH6680	10732	5877	4.2
02B	392635	760200	05/03/1974	744	.0	17.18		4	XJH6680	10732	5877	4.4
02B	392635	760200	05/03/1974	742	2.0	17.27		4	XJH6680	10732	5877	4.4
02B	392635	760200	05/03/1974	740	4.4	17.41		4	XJH6680	10732	5877	4.4
02B	392635	760200	06/13/1974	1414	.0	11.34		9	XJH6680	10732	5877	4.4
02B	392635	760200	06/13/1974	1412	2.0	16.64		9	XJH6680	10732	5877	4.4

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
02B	392635	760200	06/13/1974	1410	3.4	19.67		9	XJH6680	10732	5877	4.4
02B	392635	760200	07/31/1974	1414	.0	12.66		9	XJH6680	10732	5877	4.5
02B	392635	760200	07/31/1974	1412	2.0	23.44		9	XJH6680	10732	5877	4.5
02B	392635	760200	07/31/1974	1410	3.5	30.56		9	XJH6680	10732	5877	4.5
02B	392635	760200	09/20/1974	859	.0	14.08		9	XJH6680	10732	5877	
02B	392635	760200	09/20/1974	757	2.0	16.36		9	XJH6680	10732	5877	
02B	392635	760200	09/20/1974	755	4.0	26.47		9	XJH6680	10732	5877	
02C	392636	755949	12/14/1973	1320	.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	12/14/1973	1318	2.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	12/14/1973	1316	4.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	12/14/1973	1314	6.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	12/14/1973	1312	8.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	12/14/1973	1310	10.0			2	XJI6702	10833	5881	10.5
02C	392636	755949	01/23/1974	1535	.0				XJI6702	10833	5881	10.0
02C	392636	755949	01/23/1974	1533	2.0				XJI6702	10833	5881	10.0
02C	392636	755949	01/23/1974	1531	4.0				XJI6702	10833	5881	10.0
02C	392636	755949	01/23/1974	1529	6.0				XJI6702	10833	5881	10.0
02C	392636	755949	01/23/1974	1527	8.0				XJI6702	10833	5881	10.0
02C	392636	755949	01/23/1974	1525	9.0				XJI6702	10833	5881	10.0
02C	392636	755949	02/14/1974	1220	.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	02/14/1974	1218	2.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	02/14/1974	1216	4.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	02/14/1974	1214	6.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	02/14/1974	1212	8.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	02/14/1974	1210	10.0			1	XJI6702	10833	5881	11.0
02C	392636	755949	03/20/1974	1538	.0	35.46		2	XJI6702	10833	5881	10.3
02C	392636	755949	03/20/1974	1536	2.0	47.54		2	XJI6702	10833	5881	10.3
02C	392636	755949	03/20/1974	1534	4.0	48.74		2	XJI6702	10833	5881	10.3
02C	392636	755949	03/20/1974	1532	6.0	46.08		2	XJI6702	10833	5881	10.3
02C	392636	755949	03/20/1974	1530	9.0	50.43		2	XJI6702	10833	5881	10.3
02C	392636	755949	05/03/1974	722	.0	32.52		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	720	2.0	33.96		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	718	4.0	43.62		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	716	6.0	40.87		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	714	8.0	41.72		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	712	10.0	53.37		4	XJI6702	10833	5881	12.0
02C	392636	755949	05/03/1974	710	11.3			4	XJI6702	10833	5881	12.0
02C	392636	755949	06/13/1974	1430	.0	12.70		9	XJI6702	10833	5881	11.4
02C	392636	755949	06/13/1974	1428	2.0	21.09		9	XJI6702	10833	5881	11.4
02C	392636	755949	06/13/1974	1426	4.0	34.20		9	XJI6702	10833	5881	11.4
02C	392636	755949	06/13/1974	1424	6.0	41.82		9	XJI6702	10833	5881	11.4
02C	392636	755949	06/13/1974	1422	8.0	55.64		9	XJI6702	10833	5881	11.4
02C	392636	755949	06/13/1974	1420	10.4	74.20		9	XJI6702	10833	5881	11.4
02C	392636	755949	07/31/1974	1400	.0	21.44		9	XJI6702	10833	5881	11.0
02C	392636	755949	07/31/1974	1358	2.0	35.22		9	XJI6702	10833	5881	11.0
02C	392636	755949	07/31/1974	1356	4.0	35.44		9	XJI6702	10833	5881	11.0
02C	392636	755949	07/31/1974	1354	6.0	36.61		9	XJI6702	10833	5881	11.0
02C	392636	755949	07/31/1974	1352	8.0	48.86		9	XJI6702	10833	5881	11.0
02C	392636	755949	07/31/1974	1350	10.0	57.52		9	XJI6702	10833	5881	11.0
02C	392636	755949	09/20/1974	745	.0	27.23		9	XJI6702	10833	5881	

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
02C	392636	755949	09/20/1974	743	2.0	30.19		9	XJI6702	10833	5881	
02C	392636	755949	09/20/1974	741	4.0	31.14		9	XJI6702	10833	5881	
02C	392636	755949	09/20/1974	739	6.0	39.39		9	XJI6702	10833	5881	
02C	392636	755949	09/20/1974	737	8.0	35.44		9	XJI6702	10833	5881	
02C	392636	755949	09/20/1974	735	10.0	24.73		9	XJI6702	10833	5881	
03A	392410	760607	12/14/1973	1239	.0			2	XJH4239	10537	5728	4.0
03A	392410	760607	12/14/1973	1237	2.0			2	XJH4239	10537	5728	4.0
03A	392410	760607	12/14/1973	1235	3.5			2	XJH4239	10537	5728	4.0
03A	392410	760607	01/23/1974	1422	.0				XJH4239	10537	5728	3.3
03A	392410	760607	01/23/1974	1420	2.3				XJH4239	10537	5728	3.3
03A	392410	760607	02/12/1974	1132	.0			1	XJH4239	10537	5728	3.3
03A	392410	760607	02/12/1974	1130	2.3			1	XJH4239	10537	5728	3.3
03A	392410	760607	03/20/1974	1452	.0	19.43		2	XJH4239	10537	5728	3.3
03A	392410	760607	03/20/1974	1450	2.0	24.46		2	XJH4239	10537	5728	3.3
03A	392410	760607	05/02/1974	1439	.0	48.81		4	XJH4239	10537	5728	2.7
03A	392410	760607	05/02/1974	1437	2.0	37.62		4	XJH4239	10537	5728	2.7
03A	392410	760607	05/02/1974	1435	2.7			4	XJH4239	10537	5728	2.7
03A	392410	760607	06/13/1974	1534	.0	20.39		9	XJH4239	10537	5728	4.5
03A	392410	760607	06/13/1974	1532	2.0	20.39		9	XJH4239	10537	5728	4.5
03A	392410	760607	06/13/1974	1530	3.5	20.39		9	XJH4239	10537	5728	4.5
03A	392410	760607	07/31/1974	1309	.0	13.86		9	XJH4239	10537	5728	4.5
03A	392410	760607	07/31/1974	1307	2.0	24.74		9	XJH4239	10537	5728	4.5
03A	392410	760607	07/31/1974	1305	3.5	47.37		9	XJH4239	10537	5728	4.5
03A	392410	760607	09/19/1974	1214	.0	22.03		9	XJH4299	10537	5728	
03A	392410	760607	09/19/1974	1212	2.0	28.30		9	XJH4299	10537	5728	
03A	392410	760607	09/19/1974	1210	3.5	30.60		9	XJH4299	10537	5728	
03A	392410	760607	11/27/1974	747	.0	41.39		9	XJH4299	10537	5728	2.6
03A	392410	760607	11/27/1974	745	2.6	52.12		9	XJH4299	10537	5728	2.6
03B	392302	760530	12/14/1973	1232	.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1230	2.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1228	4.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1226	6.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1224	8.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1222	10.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	12/14/1973	1220	11.0			2	XJH3045	10569	5660	11.5
03B	392302	760530	01/23/1974	1445	.0				XJH3045	10569	5660	10.3
03B	392302	760530	01/23/1974	1443	2.0				XJH3045	10569	5660	10.3
03B	392302	760530	01/23/1974	1441	4.0				XJH3045	10569	5660	10.3
03B	392302	760530	01/23/1974	1439	6.0				XJH3045	10569	5660	10.3
03B	392302	760530	01/23/1974	1437	8.0				XJH3045	10569	5660	10.3
03B	392302	760530	01/23/1974	1435	9.3				XJH3045	10569	5660	10.3
03B	392302	760530	02/12/1974	1110	.0			1	XJH3045	10569	5660	11.5
03B	392302	760530	02/12/1974	1108	2.0			1	XJH3045	10569	5660	11.5
03B	392302	760530	02/12/1974	1106	4.0			1	XJH3045	10569	5660	11.5
03B	392302	760530	02/12/1974	1104	6.0			1	XJH3045	10569	5660	11.5
03B	392302	760530	02/12/1974	1102	8.0			1	XJH3045	10569	5660	11.5
03B	392302	760530	02/12/1974	1100	10.5			1	XJH3045	10569	5660	11.5
03B	392302	760530	03/20/1974	1439	.0	19.37	14.3	2	XJH3045	10569	5660	10.5
03B	392302	760530	03/20/1974	1437	2.0	26.28		2	XJH3045	10569	5660	10.5
03B	392302	760530	03/20/1974	1435	4.0	28.17		2	XJH3045	10569	5660	10.5

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
03B	392302	760530	03/20/1974	1433	6.0	32.23	10.0	2	XJH3045	10569	5660	10.5
03B	392302	760530	03/20/1974	1431	8.0	33.88		2	XJH3045	10569	5660	10.5
03B	392302	760530	03/20/1974	1429	9.5	37.40	12.2	2	XJH3045	10569	5660	10.5
03B	392302	760530	05/02/1974	1417	.0	28.73		4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1415	2.0	27.83		4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1413	4.0	27.34		4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1411	6.0	28.00		4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1409	8.0	24.27		4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1407	10.0			4	XJH3045	10569	5660	10.8
03B	392302	760530	05/02/1974	1405	10.8			4	XJH3045	10569	5660	10.8
03B	392302	760530	06/13/1974	1515	.0	12.63		9	XJH3045	10569	5660	11.6
03B	392302	760530	06/13/1974	1513	2.0	15.20		9	XJH3045	10569	5660	11.6
03B	392302	760530	06/13/1974	1511	4.0	18.20		9	XJH3045	10569	5660	11.6
03B	392302	760530	06/13/1974	1509	6.0	23.82		9	XJH3045	10569	5660	11.6
03B	392302	760530	06/13/1974	1507	8.0	25.52		9	XJH3045	10569	5660	11.6
03B	392302	760530	06/13/1974	1505	10.6	29.52		9	XJH3045	10569	5660	11.6
03B	392302	760530	07/31/1974	1255	.0	13.19		9	XJH3045	10569	5660	11.2
03B	392302	760530	07/31/1974	1253	2.0	17.74		9	XJH3045	10569	5660	11.2
03B	392302	760530	07/31/1974	1251	4.0	20.28		9	XJH3045	10569	5660	11.2
03B	392302	760530	07/31/1974	1249	6.0	20.58		9	XJH3045	10569	5660	11.2
03B	392302	760530	07/31/1974	1247	8.0	25.94		9	XJH3045	10569	5660	11.2
03B	392302	760530	07/31/1974	1245	10.2	35.04		9	XJH3045	10569	5660	11.2
03B	392302	760530	09/19/1974	1230	.0	14.50		9	XJH3045	10569	5660	
03B	392302	760530	09/19/1974	1228	2.0	19.14		9	XJH3045	10569	5660	
03B	392302	760530	09/19/1974	1226	4.0	21.58		9	XJH3045	10569	5660	
03B	392302	760530	09/19/1974	1224	6.0	22.21		9	XJH3045	10569	5660	
03B	392302	760530	09/19/1974	1222	8.0	24.19		9	XJH3045	10569	5660	
03B	392302	760530	09/19/1974	1220	10.0	25.09		9	XJH3045	10569	5660	
03B	392302	760530	11/27/1974	730	.0	12.33		9	XJH3045	10569	5660	10.7
03B	392302	760530	11/27/1974	728	2.0	12.86		9	XJH3045	10569	5660	10.7
03B	392302	760530	11/27/1974	726	4.0	15.78		9	XJH3045	10569	5660	10.7
03B	392302	760530	11/27/1974	724	6.0	21.22		9	XJH3045	10569	5660	10.7
03B	392302	760530	11/27/1974	722	8.0	22.79		9	XJH3045	10569	5660	10.7
03B	392302	760530	11/27/1974	720	10.5	26.47		9	XJH3045	10569	5660	10.7
03C	392234	760513	12/14/1973	1218	.0			2	XJH2648	10581	5632	6.0
03C	392234	760513	12/14/1973	1217	2.0			2	XJH2648	10581	5632	6.0
03C	392234	760513	12/14/1973	1216	4.0			2	XJH2648	10581	5632	6.0
03C	392234	760513	12/14/1973	1215	5.3			2	XJH2648	10581	5632	6.0
03C	392234	760513	01/23/1974	1361	.0				XJH2648	10581	5632	6.0
03C	392234	760513	01/23/1974	1359	2.0				XJH2648	10581	5632	6.0
03C	392234	760513	01/23/1974	1357	4.0				XJH2648	10581	5632	6.0
03C	392234	760513	01/23/1974	1355	5.0				XJH2648	10581	5632	6.0
03C	392234	760513	02/12/1974	1051	.0			1	XJH2648	10581	5632	6.6
03C	392234	760513	02/12/1974	1049	2.0			1	XJH2648	10581	5632	6.6
03C	392234	760513	02/12/1974	1047	4.0			1	XJH2648	10581	5632	6.6
03C	392234	760513	02/12/1974	1045	5.6			1	XJH2648	10581	5632	6.6
03C	392234	760513	03/20/1974	1421	.0	24.11		2	XJH2648	10581	5632	6.0
03C	392234	760513	03/20/1974	1419	2.0	24.60		2	XJH2648	10581	5632	6.0
03C	392234	760513	03/20/1974	1417	4.0	26.97		2	XJH2648	10581	5632	6.0
03C	392234	760513	03/20/1974	1415	5.0	27.51		2	XJH2648	10581	5632	6.0

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
03C	392234	760513	05/02/1974	1341	.0	32.77		4	XJH2648	10581	5632	5.0
03C	392234	760513	05/02/1974	1339	2.0	31.83		4	XJH2648	10581	5632	5.0
03C	392234	760513	05/02/1974	1337	4.0	32.90		4	XJH2648	10581	5632	5.0
03C	392234	760513	05/02/1974	1335	5.0			4	XJH2648	10581	5632	5.0
03C	392234	760513	06/13/1974	1504	.0	16.49		9	XJH2648	10581	5632	4.3
03C	392234	760513	06/13/1974	1502	2.0	22.00		9	XJH2648	10581	5632	4.3
03C	392234	760513	06/13/1974	1500	3.3	34.06		9	XJH2648	10581	5632	4.3
03C	392234	760513	07/31/1974	1241	.0	11.41		9	XJH2648	10581	5632	7.0
03C	392234	760513	07/31/1974	1239	2.0	16.05		9	XJH2648	10581	5632	7.0
03C	392234	760513	07/31/1974	1237	4.0	36.02		9	XJH2648	10581	5632	7.0
03C	392234	760513	07/31/1974	1235	6.0	57.40		9	XJH2648	10581	5632	7.0
03C	392234	760513	09/19/1974	1241	.0	13.17		9	XJH2648	10581	5632	
03C	392234	760513	09/19/1974	1239	2.0	17.92		9	XJH2648	10581	5632	
03C	392234	760513	09/19/1974	1237	4.0	19.12		9	XJH2648	10581	5632	
03C	392234	760513	09/19/1974	1235	6.0	29.39		9	XJH2648	10581	5632	
03C	392234	760513	11/27/1974	711	.0	18.41		9	XJH2648	10581	5632	5.6
03C	392334	760513	11/27/1974	709	2.0	19.50		9	XJH2648	10581	5632	5.6
03C	392334	760513	11/27/1974	707	4.0	44.74		9	XJH2648	10581	5632	5.6
03C	392334	760513	11/27/1974	705	5.4	47.49		9	XJH2648	10581	5632	5.6
04A	92120	761058	12/14/1973	1141	.0			2	XJG1390	10312	5555	7.4
04A	92120	761058	12/14/1973	1139	2.0			2	XJG1390	10312	5555	7.4
04A	92120	761058	12/14/1973	1138	4.0			2	XJG1390	10312	5555	7.4
04A	92120	761058	12/14/1973	1137	6.0			2	XJG1390	10312	5555	7.4
04A	92120	761058	12/14/1973	1135	7.4			2	XJG1390	10312	5555	7.4
04A	392120	761058	01/23/1974	1316	.0				XJG1390	10312	5555	7.6
04A	392120	761058	01/23/1974	1314	2.0				XJG1390	10312	5555	7.6
04A	392120	761058	01/23/1974	1312	4.0				XJG1390	10312	5555	7.6
04A	392120	761058	01/23/1974	1310	6.6				XJG1390	10312	5555	7.6
04A	392120	761058	02/12/1974	926	.0			1	XJG1390	10312	5555	7.4
04A	392120	761058	02/12/1974	924	2.0			1	XJG1390	10312	5555	7.4
04A	392120	761058	02/12/1974	922	4.0			1	XJG1390	10312	5555	7.4
04A	392120	761058	02/12/1974	920	6.4			1	XJG1390	10312	5555	7.4
04A	392120	761058	03/20/1974	1246	.0	43.06		2	XJG1390	10312	5555	7.5
04A	392120	761058	03/20/1974	1244	2.0	46.11		2	XJG1390	10312	5555	7.5
04A	392120	761058	03/20/1974	1242	4.0	52.00		2	XJG1390	10312	5555	7.5
04A	392120	761058	03/20/1974	1240	6.5	56.37		2	XJG1390	10312	5555	7.5
04A	392120	761058	05/02/1974	1308	.0	53.03		4	XJG1390	10312	5555	6.9
04A	392120	761058	05/02/1974	1306	2.0	33.45		4	XJG1390	10312	5555	6.9
04A	392120	761058	05/02/1974	1304	4.0	42.98		4	XJG1390	10312	5555	6.9
04A	392120	761058	05/02/1974	1302	6.0	61.73		4	XJG1390	10312	5555	6.9
04A	392120	761058	05/02/1974	1300	6.9			4	XJG1390	10312	5555	6.9
04A	392120	761058	06/13/1974	1606	.0	12.65		9	XJG1390	10312	5555	7.3
04A	392120	761058	06/13/1974	1604	2.0	15.48		9	XJG1390	10312	5555	7.3
04A	392120	761058	06/13/1974	1602	4.0	13.44		9	XJG1390	10312	5555	7.3
04A	392120	761058	06/13/1974	1600	6.3	22.63		9	XJG1390	10312	5555	7.3
04A	392120	761058	07/31/1974	1201	.0	21.13		9	XJG1390	10312	5555	6.4
04A	392120	761058	07/31/1974	1159	2.0	26.96		9	XJG1390	10312	5555	6.4
04A	392120	761058	07/31/1974	1157	4.0	51.23		9	XJG1390	10312	5555	6.4
04A	392120	761058	07/31/1974	1155	5.4	77.03		9	XJG1390	10312	5555	6.4
04A	392120	761058	09/19/1974	1113	.0	24.61		9	XJG1390	10312	5555	

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
04A	392120	761058	09/19/1974	1111	2.0	31.51		9	XJG1390	10312	5555	
04A	392120	761058	09/19/1974	1104	4.0	45.91		9	XJG1390	10312	5555	
04A	392120	761058	09/19/1974	1107	6.0	55.55		9	XJG1390	10312	5555	
04A	392120	761058	09/19/1974	1105	8.0	79.92		9	XJG1390	10312	5555	
04A	392120	761058	11/27/1974	839	.0	22.16		9	XJG1390	10312	5555	7.3
04A	392120	761058	11/27/1974	837	2.0	33.85		9	XJG1390	10312	5555	7.3
04A	392120	761058	11/27/1974	835	4.0	44.53		9	XJG1390	10312	5555	7.3
04A	392120	761058	11/27/1974	832	6.0	209.84		9	XJG1390	10312	5555	7.3
04A	392120	761058	11/27/1974	830	7.0	65.67		9	XJG1390	10312	5555	7.3
04B	92052	761022	12/14/1973	1152	.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1150	2.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1148	4.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1146	6.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1144	8.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1142	10.0			2	XJG0996	10340	5525	12.0
04B	92052	761022	12/14/1973	1140	11.3			2	XJG0996	10340	5525	12.0
04B	392052	761022	01/23/1974	1260	.0				XJG0996	10340	5525	11.0
04B	392052	761022	01/23/1974	1258	2.0				XJG0996	10340	5525	11.0
04B	392052	761022	01/23/1974	1256	4.0				XJG0996	10340	5525	11.0
04B	392052	761022	01/23/1974	1254	6.0				XJG0996	10340	5525	11.0
04B	392052	761022	01/23/1974	1252	8.0				XJG0996	10340	5525	11.0
04B	392052	761022	01/23/1974	1250	10.0				XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	955	.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	953	2.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	951	4.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	949	6.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	947	8.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	02/12/1974	945	10.0			1	XJG0996	10340	5525	11.0
04B	392052	761022	03/20/1974	1350	.0	41.74	13.8	2	XJG0996	10340	5525	10.7
04B	392052	761022	03/20/1974	1348	2.0	43.28		2	XJG0996	10340	5525	10.7
04B	392052	761022	03/20/1974	1346	4.0	46.68		2	XJG0996	10340	5525	10.7
04B	392052	761022	03/20/1974	1344	6.0	49.31	9.9	2	XJG0996	10340	5525	10.7
04B	392052	761022	03/20/1974	1342	8.0	59.46		2	XJG0996	10340	5525	10.7
04B	392052	761022	03/20/1974	1340	9.5	80.80	8.8	2	XJG0996	10340	5525	10.7
04B	392052	761022	05/02/1974	1242	.0	92.11		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1240	2.0	38.17		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1238	4.0	45.29		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1236	6.0	48.95		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1234	8.0	75.44		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1232	10.0	40.15		4	XJG0996	10340	5525	11.0
04B	392052	761022	05/02/1974	1230	11.0			4	XJG0996	10340	5525	11.0
04B	392052	761022	06/13/1974	1620	.0	8.98		9	XJG0996	10340	5525	11.3
04B	392052	761022	06/13/1974	1618	2.0	10.15		9	XJG0996	10340	5525	11.3
04B	392052	761022	06/13/1974	1616	4.0	10.89		9	XJG0996	10340	5525	11.3
04B	392052	761022	06/13/1974	1614	6.0	17.65		9	XJG0996	10340	5525	11.3
04B	392052	761022	06/13/1974	1612	8.0	19.88		9	XJG0996	10340	5525	11.3
04B	392052	761022	06/13/1974	1610	10.8	22.38		9	XJG0996	10340	5525	11.3
04B	392052	761022	07/31/1974	1150	.0	12.27		9	XJG0996	10340	5525	11.5
04B	392052	761022	07/31/1974	1148	2.0	15.56		9	XJG0996	10340	5525	11.5
04B	392052	761022	07/31/1974	1146	4.0	16.00		9	XJG0996	10340	5525	11.5

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
04B	392052	761022	07/31/1974	1144	6.0	22.94		9	XJG0996	10340	5525	11.5
04B	392052	761022	07/31/1974	1142	8.0	30.84		9	XJG0996	10340	5525	11.5
04B	392052	761022	07/31/1974	1140	10.5	62.94		9	XJG0996	10340	5525	11.5
04B	392052	761022	09/19/1974	1127	.0	13.62		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1125	2.0	19.48		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1123	4.0	24.56		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1121	6.0	28.37		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1119	8.0	29.81		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1117	10.0	30.75		9	XJG0996	10340	5525	
04B	392052	761022	09/19/1974	1115	11.0			9	XJG0996	10340	5525	
04B	392052	761022	11/27/1974	855	.0	8.23		9	XJG0996	10340	5525	10.9
04B	392052	761022	11/27/1974	853	2.0	9.98		9	XJG0996	10340	5525	10.9
04B	392052	761022	11/27/1974	851	4.0	10.40		9	XJG0996	10340	5525	10.9
04B	392052	761022	11/27/1974	849	6.0	9.32		9	XJG0996	10340	5525	10.9
04B	392052	761022	11/27/1974	847	8.0	36.42		9	XJG0996	10340	5525	10.9
04B	392052	761022	11/27/1974	845	10.5	44.69		9	XJG0996	10340	5525	10.9
04C	92018	760940	12/14/1973	1159	.0			2	XJH0303	10374	5494	5.8
04C	92018	760940	12/14/1973	1158	2.0			2	XJH0303	10374	5494	5.8
04C	92018	760940	12/14/1973	1156	4.0			2	XJH0303	10374	5494	5.8
04C	92018	760940	12/14/1973	1155	5.3			2	XJH0303	10374	5494	5.8
04C	392018	760940	01/23/1974	1239	.0				XJH0303	10374	5494	5.2
04C	392018	760940	01/23/1974	1237	2.0				XJH0303	10374	5494	5.2
04C	392018	760940	01/23/1974	1235	4.2				XJH0303	10374	5494	5.2
04C	392018	760940	02/12/1974	1011	.0			1	XJH0303	10374	5494	6.0
04C	392018	760940	02/12/1974	1009	2.0			1	XJH0303	10374	5494	6.0
04C	392018	760940	02/12/1974	1007	4.0			1	XJH0303	10374	5494	6.0
04C	392018	760940	02/12/1974	1005	5.0			1	XJH0303	10374	5494	6.0
04C	392018	760940	03/20/1974	1316	.0	46.80		2	XJH0303	10374	5494	6.7
04C	392018	760940	03/20/1974	1314	2.0	58.80		2	XJH0303	10374	5494	6.7
04C	392018	760940	03/20/1974	1312	4.0	56.08		2	XJH0303	10374	5494	6.7
04C	392018	760940	03/20/1974	1310	5.5	99.51		2	XJH0303	10374	5494	6.7
04C	392018	790940	05/02/1974	1221	.0	33.83		4	XJH0303	10374	5494	6.0
04C	392018	790940	05/02/1974	1219	2.0	34.76		4	XJH0303	10374	5494	6.0
04C	392018	790940	05/02/1974	1217	4.0	36.15		4	XJH0303	10374	5494	6.0
04C	392018	790940	05/02/1974	1215	6.0	44.06		4	XJH0303	10374	5494	6.0
04C	392018	760940	06/13/1974	1629	.0	15.01		9	XJH0303	10374	5494	4.4
04C	392018	760940	06/13/1974	1627	2.0	16.08		9	XJH0303	10374	5494	4.4
04C	392018	760940	06/13/1974	1625	3.4	25.31		9	XJH0303	10374	5494	4.4
04C	392018	760940	07/31/1974	1136	.0	12.91		9	XJH0303	10374	5494	6.6
04C	392018	760940	07/31/1974	1134	2.0	30.10		9	XJH0303	10374	5494	6.6
04C	392018	760940	07/31/1974	1132	4.0	38.26		9	XJH0303	10374	5494	6.6
04C	392018	760940	07/31/1974	1130	5.6	49.57		9	XJH0303	10374	5494	6.6
04C	392018	760940	09/19/1974	1139	.0	11.19		9	XJH0303	10374	5494	
04C	392018	760940	09/19/1974	1137	2.0	14.86		9	XJH0303	10374	5494	
04C	392018	760940	09/19/1974	1135	4.0	13.37		9	XJH0303	10374	5494	
04C	392018	760940	09/19/1974	1133	6.0	12.06		9	XJH0303	10374	5494	
04C	392018	760940	11/27/1974	906	.0	12.41		9	XJH0303	10374	5494	6.0
04C	392018	760940	11/27/1974	904	2.0	14.53		9	XJH0303	10374	5494	6.0
04C	392018	760940	11/27/1974	902	4.0	14.84		9	XJH0303	10374	5494	6.0
04C	392018	760940	11/27/1974	900	5.8	28.80		9	XJH0303	10374	5494	6.0

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
05A	391637	761522	12/14/1973	1053	.0	17.88		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1040	.0	21.02		2	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1038	2.0	21.16		2	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1051	2.0	24.65		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1049	4.0	22.65		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1036	4.0	23.84		2	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1048	6.0	22.30		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1034	6.0	25.70		2	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1046	8.0	24.89		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1032	8.0	27.10		2	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1045	10.0	24.87		4	XIG6647	10107	5266	12.0
05A	391637	761522	12/14/1973	1030	10.0	22.68		2	XIG6647	10107	5266	12.0
05A	391637	761522	01/23/1974	1063	.0				XIG6647	10107	5266	9.3
05A	391637	761522	01/23/1974	1061	2.0				XIG6647	10107	5266	9.3
05A	391637	761522	01/23/1974	1059	4.0				XIG6647	10107	5266	9.3
05A	391637	761522	01/23/1974	1057	6.0				XIG6647	10107	5266	9.3
05A	391637	761522	01/23/1974	1055	8.3				XIG6647	10107	5266	9.3
05A	391637	761522	01/24/1974	938	.0	10.96			XIG6647	10107	5266	10.3
05A	391637	761522	01/24/1974	936	2.0	9.53			XIG6647	10107	5266	10.3
05A	391637	761522	01/24/1974	934	4.0	9.84			XIG6647	10107	5266	10.3
05A	391637	761522	01/24/1974	932	6.0	19.86			XIG6647	10107	5266	10.3
05A	391637	761522	01/24/1974	930	7.5				XIG6647	10107	5266	10.3
05A	391637	761522	02/12/1974	845	.0	12.92		1	XIG6647	10107	5266	11.5
05A	391637	761522	02/12/1974	843	2.0	13.95		1	XIG6647	10107	5266	11.5
05A	391637	761522	02/12/1974	841	4.0	14.38		1	XIG6647	10107	5266	11.5
05A	391637	761522	02/12/1974	839	6.0	26.80		1	XIG6647	10107	5266	11.5
05A	391637	761522	02/12/1974	837	8.0	20.98		1	XIG6647	10107	5266	11.5
05A	391637	761522	02/12/1974	835	10.0	49.65		1	XIG6647	10107	5266	11.5
05A	391637	761522	03/20/1974	1125	.0	73.97		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/20/1974	1123	2.0	53.34		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/20/1974	1121	4.0	71.00		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/20/1974	1119	6.0	164.54		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/20/1974	1117	8.0	161.03		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/20/1974	1115	10.5	264.11		2	XIG6647	10107	5266	12.1
05A	391637	761522	03/21/1974	755	.0	26.80		1	XIG6647	10107	5266	10.7
05A	391637	761522	03/21/1974	753	2.0	27.93		1	XIG6647	10107	5266	10.7
05A	391637	761522	03/21/1974	751	4.0	29.23		1	XIG6647	10107	5266	10.7
05A	391637	761522	03/21/1974	749	6.0	29.37		1	XIG6647	10107	5266	10.7
05A	391637	761522	03/21/1974	747	7.5	62.57		1	XIG6647	10107	5266	10.7
05A	391637	761522	03/21/1974	745	8.0	51.07		1	XIG6647	10107	5266	10.7
05A	391637	761522	05/02/1974	1115	.0	53.93		4	XIG6647	10107	5266	10.0
05A	391637	761522	05/02/1974	1113	2.0	55.93		4	XIG6647	10107	5266	10.0
05A	391637	761522	05/02/1974	1111	4.0	45.78		4	XIG6647	10107	5266	10.0
05A	391637	761522	05/02/1974	1109	6.0	43.27		4	XIG6647	10107	5266	10.0
05A	391637	761522	05/02/1974	1107	8.0	43.09		4	XIG6647	10107	5266	10.0
05A	391637	761522	05/02/1974	1105	10.0			4	XIG6647	10107	5266	10.0
05A	391637	761522	05/03/1974	731	.0	20.67		1	XIG6647	10107	5266	7.5
05A	391637	761522	05/03/1974	729	2.0	15.87		1	XIG6647	10107	5266	7.5
05A	391637	761522	05/03/1974	727	4.0	30.82		1	XIG6647	10107	5266	7.5
05A	391637	761522	05/03/1974	725	6.5	39.95		1	XIG6647	10107	5266	7.5

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
05A	391637	761522	06/13/1974	753	.0	11.77		1	XIG6647	10107	5266	8.5
05A	391637	761522	06/13/1974	751	2.0	15.42		1	XIG6647	10107	5266	8.5
05A	391637	761522	06/13/1974	749	4.0	16.60		1	XIG6647	10107	5266	8.5
05A	391637	761522	06/13/1974	747	6.0	21.82		1	XIG6647	10107	5266	8.5
05A	391637	761522	06/13/1974	745	7.0	39.34		1	XIG6647	10107	5266	8.5
05A	391637	761522	06/14/1974	808	.0			1	XIG6647	10107	5266	9.0
05A	391637	761522	06/14/1974	806	2.0			1	XIG6647	10107	5266	9.0
05A	391637	761522	06/14/1974	804	4.0			1	XIG6647	10107	5266	9.0
05A	391637	761522	06/14/1974	802	6.0			1	XIG6647	10107	5266	9.0
05A	391637	761522	06/14/1974	800	8.0			1	XIG6647	10107	5266	9.0
05A	391637	761522	07/31/1974	1021	.0	7.16		9	XIG6647	10107	5266	7.0
05A	391637	761522	07/31/1974	1019	2.0	7.22		9	XIG6647	10107	5266	7.0
05A	391637	761522	07/31/1974	1017	4.0	9.26		9	XIG6647	10107	5266	7.0
05A	391637	761522	07/31/1974	1015	6.0	11.73		9	XIG6647	10107	5266	7.0
05A	391637	761522	09/19/1974	1026	.0	7.32		9	XIG6647	10107	5266	
05A	391637	761522	09/19/1974	1024	2.0	8.05		9	XIG6647	10107	5266	
05A	391637	761522	09/19/1974	1022	4.0	8.22		9	XIG6647	10107	5266	
05A	391637	761522	09/19/1974	1020	6.0	8.33		9	XIG6647	10107	5266	
05A	391637	761522	09/19/1974	1018	8.0	9.72		9	XIG6647	10107	5266	
05A	391637	761522	09/19/1974	1016	9.0			9	XIG6647	10107	5266	
05A	391637	761522	11/25/1974	1640	.0	3.42		9	XIG6647	10107	5266	12.5
05A	391637	761522	11/25/1974	1638	2.0	3.87		9	XIG6647	10107	5266	12.5
05A	391637	761522	11/25/1974	1636	4.0	4.12		9	XIG6647	10107	5266	12.5
05A	391637	761522	11/25/1974	1634	6.0	3.79		9	XIG6647	10107	5266	12.5
05A	391637	761522	11/25/1974	1632	8.0	6.10		9	XIG6647	10107	5266	12.5
05A	391637	761522	11/25/1974	1630	12.0	24.80		9	XIG6647	10107	5266	12.5
05B	391614	761403	12/14/1973	1039	.0			4	XIG6259	10169	5243	10.2
05B	391614	761403	12/14/1973	1037	2.0			4	XIG6259	10169	5243	10.2
05B	391614	761403	12/14/1973	1035	4.0			4	XIG6259	10169	5243	10.2
05B	391614	761403	12/14/1973	1033	6.0			4	XIG6259	10169	5243	10.2
05B	391614	761403	12/14/1973	1031	8.0			4	XIG6259	10169	5243	10.2
05B	391614	761403	12/14/1973	1030	9.7			4	XIG6259	10169	5243	10.2
05B	391614	761403	01/23/1974	1123	.0				XIG6259	10169	5243	9.5
05B	391614	761403	01/23/1974	1121	2.0				XIG6259	10169	5243	9.5
05B	391614	761403	01/23/1974	1119	4.0				XIG6259	10169	5243	9.5
05B	391614	761403	01/23/1974	1117	6.0				XIG6259	10169	5243	9.5
05B	391614	761403	01/23/1974	1115	8.5				XIG6259	10169	5243	9.5
05B	391614	761403	02/12/1974	815	.0			1	XIG6259	10169	5243	10.6
05B	391614	761403	02/12/1974	813	2.0			1	XIG6259	10169	5243	10.6
05B	391614	761403	02/12/1974	811	4.0			1	XIG6259	10169	5243	10.6
05B	391614	761403	02/12/1974	809	6.0			1	XIG6259	10169	5243	10.6
05B	391614	761403	02/12/1974	807	8.0			1	XIG6259	10169	5243	10.6
05B	391614	761403	02/12/1974	805	9.6			1	XIG6259	10169	5243	10.6
05B	391614	761403	03/20/1974	1148	.0	46.00	12.6	2	XIG6259	10169	5243	9.7
05B	391614	761403	03/20/1974	1146	2.0	51.26		2	XIG6259	10169	5243	9.7
05B	391614	761403	03/20/1974	1144	4.0	44.31	12.3	2	XIG6259	10169	5243	9.7
05B	391614	761403	03/20/1974	1142	6.0	115.23		2	XIG6259	10169	5243	9.7
05B	391614	761403	03/20/1974	1140	8.5	134.94	9.7	2	XIG6259	10169	5243	9.7
05B	391614	761403	05/02/1974	1043	.0	23.63		4	XIG6259	10169	5243	6.8
05B	391614	761403	05/02/1974	1041	2.0	32.21		4	XIG6259	10169	5243	6.8

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
05B	391614	761403	05/02/1974	1039	4.0	65.28		4	XIG6259	10169	5243	6.8
05B	391614	761403	05/02/1974	1037	6.0	77.13		4	XIG6259	10169	5243	6.8
05B	391614	761403	05/02/1974	1035	6.8			4	XIG6259	10169	5243	6.8
05B	391614	761403	06/14/1974	752	.0	5.27		9	XIG6259	10169	5243	10.2
05B	391614	761403	06/14/1974	750	2.0	7.94		9	XIG6259	10169	5243	10.2
05B	391614	761403	06/14/1974	748	4.0	6.28		9	XIG6259	10169	5243	10.2
05B	391614	761403	06/14/1974	746	6.0	12.30		9	XIG6259	10169	5243	10.2
05B	391614	761403	06/14/1974	744	8.0	29.02		9	XIG6259	10169	5243	10.2
05B	391614	761403	06/14/1974	742	9.2	31.21		9	XIG6259	10169	5243	10.2
05B	391614	761403	07/31/1974	1040	.0	7.56		9	XIG6259	10169	5243	9.7
05B	391614	761403	07/31/1974	1038	2.0	9.45		9	XIG6259	10169	5243	9.7
05B	391614	761403	07/31/1974	1036	4.0	7.17		9	XIG6259	10169	5243	9.7
05B	391614	761403	07/31/1974	1034	6.0	13.46		9	XIG6259	10169	5243	9.7
05B	391614	761403	07/31/1974	1032	8.0			9	XIG6259	10169	5243	9.7
05B	391614	761403	07/31/1974	1030	8.7	44.30		9	XIG6259	10169	5243	9.7
05B	391614	761403	09/19/1974	1005	.0	9.09		9	XIG6259	10169	5243	
05B	391614	761403	09/19/1974	1003	2.0	13.10		9	XIG6259	10169	5243	
05B	391614	761403	09/19/1974	1001	4.0	15.81		9	XIG6259	10169	5243	
05B	391614	761403	09/19/1974	959	6.0	19.00		9	XIG6259	10169	5243	
05B	391614	761403	09/19/1974	957	8.0	40.87		9	XIG6259	10169	5243	
05B	391614	761403	09/19/1974	955	9.0			9	XIG6259	10169	5243	
05B	391614	761403	11/25/1974	1708	.0	4.61		9	XIG6259	10169	5243	8.4
05B	391614	761403	11/25/1974	1706	2.0	5.11		9	XIG6259	10169	5243	8.4
05B	391614	761403	11/25/1974	1704	4.0	5.01		9	XIG6259	10169	5243	8.4
05B	391614	761403	11/25/1974	1702	6.0	42.29		9	XIG6259	10169	5243	8.4
05B	391614	761403	11/25/1974	1700	8.0	72.12		9	XIG6259	10169	5243	8.4
05C	391604	761329	12/14/1973	1026	.0			4	XIG6259	10196	5233	6.0
05C	391604	761329	12/14/1973	1024	2.0			4	XIG6259	10196	5233	6.0
05C	391604	761329	12/14/1973	1022	4.0			4	XIG6259	10196	5233	6.0
05C	391604	761329	12/14/1973	1020	5.3			4	XIG6259	10196	5233	6.0
05C	391604	761329	01/23/1974	1144	.0				XIG6259	10196	5233	5.4
05C	391604	761329	01/23/1974	1142	2.0				XIG6259	10196	5233	5.4
05C	391604	761329	01/23/1974	1140	4.4				XIG6259	10196	5233	5.4
05C	391604	761329	02/12/1974	754	.0			1	XIG6259	10196	5233	5.5
05C	391604	761329	02/12/1974	752	2.0			1	XIG6259	10196	5233	5.5
05C	391604	761329	02/12/1974	750	4.5			1	XIG6259	10196	5233	5.5
05C	391604	761329	03/20/1974	1206	.0	34.97		2	XIG6259	10196	5233	7.1
05C	391604	761329	03/20/1974	1204	2.0	35.34		2	XIG6259	10196	5233	7.1
05C	391604	761329	03/20/1974	1202	4.0	44.83		2	XIG6259	10196	5233	7.1
05C	391604	761329	03/20/1974	1200	6.0	46.40		2	XIG6259	10196	5233	7.1
05C	391604	761329	05/01/1974	1023	.0	40.54		4	XIG6259	10196	5233	6.7
05C	391604	761329	05/01/1974	1021	2.0	110.36		4	XIG6259	10196	5233	6.7
05C	391604	761329	05/01/1974	1019	4.0	309.63		4	XIG6259	10196	5233	6.7
05C	391604	761329	05/01/1974	1017	6.0	21.08		4	XIG6259	10196	5233	6.7
05C	391604	761329	05/01/1974	1015	6.7			4	XIG6259	10196	5233	6.7
05C	391604	761329	06/14/1974	736	.0	10.20		9	XIG6259	10196	5233	5.9
05C	391604	761329	06/14/1974	734	2.0	12.48		9	XIG6259	10196	5233	5.9
05C	391604	761329	06/14/1974	732	4.0	9.54		9	XIG6259	10196	5233	5.9
05C	391604	761329	06/14/1974	730	4.9	18.98		9	XIG6259	10196	5233	5.9
05C	391604	761329	07/31/1974	1054	.0	7.34		9	XIG6259	10196	5233	4.6

STAT ION C202	LATT TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
05C	391604	761329	07/31/1974	1052	2.0	13.58		9	XIG6259	10196	5233	4.6
05C	391604	761329	07/31/1974	1050	3.6	13.92		9	XIG6259	10196	5233	4.6
05C	391604	761329	09/19/1974	956	.0	11.32		9	XIG6259	10196	5233	
05C	391604	761329	09/19/1974	954	2.0	11.17		9	XIG6259	10196	5233	
05C	391604	761329	09/19/1974	952	4.0	10.55		9	XIG6259	10196	5233	
05C	391604	761329	09/19/1974	950	6.0	36.34		9	XIG6259	10196	5233	
05C	391604	761329	09/19/1974	940	7.0			9	XIG6259	10196	5233	
06A	391357	761932	12/14/1973	916	.0			2	XIG3905	09912	5102	6.2
06A	391357	761932	12/14/1973	914	2.0			2	XIG3905	09912	5102	6.2
06A	391357	761932	12/14/1973	912	4.0			2	XIG3905	09912	5102	6.2
06A	391357	761932	12/14/1973	910	6.0			2	XIG3905	09912	5102	6.2
06A	391357	761932	01/23/1974	1026	.0				XIG3905	09912	5102	6.7
06A	391357	761932	01/23/1974	1024	2.0				XIG3905	09912	5102	6.7
06A	391357	761932	01/23/1974	1022	4.0				XIG3905	09912	5102	6.7
06A	391357	761932	01/23/1974	1020	5.7				XIG3905	09912	5102	6.7
06A	391357	761932	02/12/1974	626	.0			1	XIG3905	09912	5102	6.0
06A	391357	761932	02/12/1974	624	2.0			1	XIG3905	09912	5102	6.0
06A	391357	761932	02/12/1974	622	4.0			1	XIG3905	09912	5102	6.0
06A	391357	761932	02/12/1974	620	5.0			1	XIG3905	09912	5102	6.0
06A	391357	761932	03/20/1974	1036	.0	29.05		2	XIG3905	09912	5102	6.7
06A	391357	761932	03/20/1974	1034	2.0	29.72		2	XIG3905	09912	5102	6.7
06A	391357	761932	03/20/1974	1032	4.0	26.40		2	XIG3905	09912	5102	6.7
06A	391357	761932	03/20/1974	1030	5.5	26.90		2	XIG3905	09912	5102	6.7
06A	391357	761932	05/01/1974	1000	.0	26.39		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	958	2.0	25.90		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	956	4.0	33.11		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	954	6.0	40.12		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	952	8.0	38.81		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	950	10.0	42.29		4	XIG3905	09912	5102	
06A	391357	761932	05/01/1974	948	10.6			4	XIG3905	09912	5102	
06A	391357	761932	06/14/1974	836	.0	2.26		9	XIG3905	09912	5102	5.9
06A	391357	761932	06/14/1974	834	2.0	2.84		9	XIG3905	09912	5102	5.9
06A	391357	761932	06/14/1974	832	4.0	3.36		9	XIG3905	09912	5102	5.9
06A	391357	761932	06/14/1974	830	4.9	3.78		9	XIG3905	09912	5102	5.9
06A	391357	761932	07/31/1974	946	.0	3.58		9	XIG3905	09912	5102	6.2
06A	391357	761932	07/31/1974	944	2.0	5.86		9	XIG3905	09912	5102	6.2
06A	391357	761932	07/31/1974	942	4.0	6.98		9	XIG3905	09912	5102	6.2
06A	391357	761932	07/31/1974	940	5.2	8.55		9	XIG3905	09912	5102	6.2
06A	391357	761932	09/19/1974	821	.0	2.65		9	XIG3905	09912	5102	
06A	391357	761932	09/19/1974	819	2.0	2.81		9	XIG3905	09912	5102	
06A	391357	761932	09/19/1974	817	4.0	5.03		9	XIG3905	09912	5102	
06A	391357	761932	09/19/1974	815	6.0	8.55		9	XIG3905	09912	5102	
06A	391357	761932	11/25/1974	1511	.0	2.35		9	XIG3905	09912	5102	6.6
06A	391357	761932	11/25/1974	1509	2.0	2.20		9	XIG3905	09912	5102	6.6
06A	391357	761932	11/25/1974	1507	4.0	2.13		9	XIG3905	09912	5102	6.6
06A	391357	761932	11/25/1974	1505	6.4	7.32		9	XIG3905	09912	5102	6.6
06B	391322	761720	12/14/1973	934	.0			2	XIG3427	10016	5068	4.5
06B	391322	761720	12/14/1973	932	2.0			2	XIG3427	10016	5068	4.5
06B	391322	761720	12/14/1973	930	4.0			2	XIG3427	10016	5068	4.5
06B	391322	761720	01/23/1974	957	.0				XIG3427	10016	5068	3.3

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
06B	391322	761720	01/23/1974	955	2.3				XIG3427	10016	5068	3.3
06B	391322	761720	02/12/1974	647	.0			1	XIG3427	10016	5068	3.6
06B	391322	761720	02/12/1974	645	2.6			1	XIG3427	10016	5068	3.6
06B	391322	761720	03/20/1974	1014	.0	30.40		2	XIG3427	10016	5068	3.9
06B	391322	761720	03/20/1974	1012	2.0	30.48		2	XIG3427	10016	5068	3.9
06B	391322	761720	03/20/1974	1010	3.0	30.75		2	XIG3427	10016	5068	3.9
06B	391322	761720	05/01/1974	914	.0	28.52		4	XIG3427	10016	5068	12.0
06B	391322	761720	05/01/1974	912	2.0	34.89		4	XIG3427	10016	5068	12.0
06B	391322	761720	05/01/1974	910	3.5	19.63		4	XIG3427	10016	5068	12.0
06B	391322	761720	06/14/1974	849	.0	7.28		9	XIG3427	10016	5068	3.9
06B	391322	761720	06/14/1974	847	2.0	9.51		9	XIG3427	10016	5068	3.9
06B	391322	761720	06/14/1974	845	2.9	7.68		9	XIG3427	10016	5068	3.9
06B	391322	761720	07/31/1974	929	.0	4.02		9	XIG3427	10016	5068	3.4
06B	391322	761720	07/31/1974	927	2.0			9	XIG3427	10016	5068	3.4
06B	391322	761720	07/31/1974	925	2.4	7.16		9	XIG3427	10016	5068	3.4
06B	391322	761720	09/19/1974	834	.0	3.63		9	XIG3427	10016	5068	
06B	391322	761720	09/19/1974	832	2.0	3.51		9	XIG3427	10016	5068	
06B	391322	761720	09/19/1974	830	4.0	7.15		9	XIG3427	10016	5068	
06B	391322	761720	11/25/1974	1535	.0	3.22		9	XIG3427	10016	5068	4.2
06B	391322	761720	11/25/1974	1532	2.0	2.81		9	XIG3427	10016	5068	4.2
06B	391322	761720	11/25/1974	1530	4.0	5.58		9	XIG3427	10016	5068	4.2
06C	391247	761507	12/14/1973	1062	.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	1060	2.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	959	4.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	957	6.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	955	8.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	953	10.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	951	12.0			2	XIG2849	10120	5033	15.0
06C	391247	761507	12/14/1973	950	14.4			2	XIG2849	10120	5033	15.0
06C	391247	761507	01/23/1974	939	.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	937	2.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	935	4.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	933	6.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	931	8.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	929	10.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	927	12.0				XIG2849	10120	5033	15.2
06C	391247	761507	01/23/1974	925	14.0				XIG2849	10120	5033	15.2
06C	391247	761507	02/12/1974	720	.0			1	XIG2849	10120	5033	11.6
06C	391247	761507	02/12/1974	718	2.0			1	XIG2849	10120	5033	11.6
06C	391247	761507	02/12/1974	716	4.0			1	XIG2849	10120	5033	11.6
06C	391247	761507	02/12/1974	714	6.0			1	XIG2849	10120	5033	11.6
06C	391247	761507	02/12/1974	712	8.0			1	XIG2849	10120	5033	11.6
06C	391247	761507	02/12/1974	710	10.5			1	XIG2849	10120	5033	11.6
06C	391247	761507	03/20/1974	952	.0	26.62	12.7	2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	950	2.0	25.50		2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	948	4.0	23.62		2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	946	6.0	24.60	12.5	2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	944	8.0	20.98		2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	942	10.0	25.55		2	XIG2849	10120	5033	12.8
06C	391247	761507	03/20/1974	940	11.5	29.42	12.7	2	XIG2849	10120	5033	12.8

STAT TON C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
06C	391247	761507	05/02/1974	842	.0	15.58		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	840	2.0	18.18		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	838	4.0	29.67		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	836	6.0	38.76		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	834	8.0	34.66		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	832	10.0	223.10		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	830	12.0	67.05		4	XIG2849	10120	5033	14.0
06C	391247	761507	05/02/1974	828	14.0	19.17		4	XIG2849	10120	5033	14.0
06C	391247	761507	06/14/1974	912	.0	3.84		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	910	2.0	4.18		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	908	4.0	4.18		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	906	6.0	12.84		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	904	8.0	10.74		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	902	10.0	12.70		9	XIG2849	10120	5033	12.5
06C	391247	761507	06/14/1974	900	12.5	11.73		9	XIG2849	10120	5033	12.5
06C	391247	761507	07/31/1974	912	.0	46.00		9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	910	2.0	5.28		9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	908	4.0	5.04		9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	906	6.0	8.90		9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	904	8.0	12.32		9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	902	10.0			9	XIG2849	10120	5033	11.8
06C	391247	761507	07/31/1974	900	10.8	14.48		9	XIG2849	10120	5033	11.8
06C	391247	761507	09/19/1974	904	.0	6.68		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	902	2.0	5.51		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	900	4.0	4.86		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	858	6.0	7.11		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	856	8.0	13.89		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	854	10.0	17.40		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	852	12.0	44.34		9	XIG2849	10120	5033	
06C	391247	761507	09/19/1974	850	13.0			9	XIG2849	10120	5033	
06C	391247	761507	11/25/1974	1602	.0	3.36		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1600	2.0	3.60		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1558	4.0	3.60		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1556	6.0	4.63		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1554	8.0	7.74		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1552	10.0	12.13		9	XIG2849	10120	5033	13.5
06C	391247	761507	11/25/1974	1550	13.0	11.65		9	XIG2849	10120	5033	13.5
07A	391528	763423	12/13/1973	1435	.0	8.30	26.2	3	XIE5556	09210	5192	7.6
07A	391528	763423	12/13/1973	1445	2.0	7.16	26.2	3	XIE5556	09210	5192	7.6
07A	391528	763423	12/13/1973	1455	4.0	8.08	28.5	3	XIE5556	09210	5192	7.6
07A	391528	763423	12/13/1973	1510	6.5	7.50	23.9	3	XIE5556	09210	5192	7.6
07A	391528	763423	01/23/1974	1208	.0				XIE5556	09210	5192	9.5
07A	391528	763423	01/23/1974	1206	2.0				XIE5556	09210	5192	9.5
07A	391528	763423	01/23/1974	1204	4.0				XIE5556	09210	5192	9.5
07A	391528	763423	01/23/1974	1202	6.0				XIE5556	09210	5192	9.5
07A	391528	763423	01/23/1974	1200	8.0				XIE5556	09210	5192	9.5
07A	391528	763423	01/24/1974	1015	.0	11.14	22.4	3	XIE5556	09210	5192	10.5
07A	391528	763423	01/24/1974	1020	2.0			3	XIE5556	09210	5192	10.5
07A	391528	763423	01/24/1974	1050	4.0	10.30		3	XIE5556	09210	5192	10.5
07A	391528	763423	01/24/1974	1110	6.0	8.32	19.5	3	XIE5556	09210	5192	10.5

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
07A	391528	763423	01/24/1974	1130	8.0	8.70		3	XIE5556	09210	5192	10.5
07A	391528	763423	01/24/1974	1140	9.0	8.80	13.2	3	XIE5556	09210	5192	10.5
07A	391528	763423	03/21/1974	1310	.0	9.47	22.3	3	XIE5556	09210	5192	10.0
07A	391528	763423	03/21/1974	1308	2.0	9.67		3	XIE5556	09210	5192	10.0
07A	391528	763423	03/21/1974	1306	4.0	10.59		3	XIE5556	09210	5192	10.0
07A	391528	763423	03/21/1974	1304	6.0	8.14	17.3	3	XIE5556	09210	5192	10.0
07A	391528	763423	03/21/1974	1302	8.0	7.85		3	XIE5556	09210	5192	10.0
07A	391528	763423	03/21/1974	1300	9.0	8.30	1.2	3	XIE5556	09210	5192	10.0
07A	391528	763423	05/02/1974	1410	.0	6.32		3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1411	.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1408	2.0	5.23		3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1409	2.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1406	4.0	4.88		3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1407	4.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1404	6.0	5.13		3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1405	6.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1402	8.0	4.66		3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1403	8.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1401	10.0			3	XIE5556	09210	5192	11.0
07A	391528	763423	05/02/1974	1400	10.0	8.03		3	XIE5556	09210	5192	11.0
07A	391528	763423	08/01/1974	918	.7	11.66		3	XIE5556	09210	5192	9.7
07A	391528	763423	08/01/1974	916	2.7	8.17		3	XIE5556	09210	5192	9.7
07A	391528	763423	08/01/1974	914	4.7	6.48		3	XIE5556	09210	5192	9.7
07A	391528	763423	08/01/1974	912	6.7	5.86		3	XIE5556	09210	5192	9.7
07A	391528	763423	08/01/1974	910	8.7	6.26		3	XIE5556	09210	5192	9.7
07A	391528	763423	09/18/1974	1433	.0	7.39		9	XIE5556	09210	5192	
07A	391528	763423	09/18/1974	1431	2.0	7.80		9	XIE5556	09210	5192	
07A	391528	763423	09/18/1974	1429	4.0	6.06		9	XIE5556	09210	5192	
07A	391528	763423	09/18/1974	1427	6.0	5.46		9	XIE5556	09210	5192	
07A	391528	763423	09/18/1974	1425	8.0	4.44		9	XIE5556	09210	5192	
07A	391528	763423	09/18/1974	1423	9.0			9	XIE5556	09210	5192	
07A	391528	763423	11/25/1974	1337	.0	2.40		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1335	2.0	2.72		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1333	4.0	2.73		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1331	6.0	2.30		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1329	8.0	2.78		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1327	10.0	3.36		9	XIE5556	09210	5192	12.2
07A	391528	763423	11/25/1974	1325	12.0	3.08		9	XIE5556	09210	5192	12.2
08A	391049	762556	12/14/1973	1340	.0	7.94		3	XIE0841	09610	4911	5.5
08A	391049	762556	12/14/1973	1355	2.0	10.00		3	XIE0841	09610	4911	5.5
08A	391049	762556	12/14/1973	1415	4.0	6.92		3	XIE0841	09610	4911	5.5
08A	391049	762556	01/24/1974	1310	.0	2.08		3	XIE0841	09610	4911	5.0
08A	391049	762556	01/24/1974	1320	2.0	4.02		3	XIE0841	09610	4911	5.0
08A	391049	762556	01/24/1974	1340	4.0	4.52		3	XIE0841	09610	4911	5.0
08A	391049	762556	03/21/1974	1119	.0	14.91		3	XIE0841	09610	4911	5.0
08A	391049	762556	03/21/1974	1117	2.0	21.43	11.4	3	XIE0841	09610	4911	5.0
08A	391049	762556	03/21/1974	1115	4.0	14.95	15.4	3	XIE0841	09610	4911	5.0
08A	391049	762556	05/02/1974	1214	.0			3	XIE0841	09610	4911	5.0
08A	391049	762556	05/02/1974	1214	.0	9.02		3	XIE0841	09610	4911	5.0
08A	391049	762556	05/02/1974	1212	2.0	9.49		3	XIE0841	09610	4911	5.0

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
08A	391049	762556	05/02/1974	1212	2.0			3	XIE0841	09610	4911	5.0
08A	391049	762556	05/02/1974	1210	4.0	10.98		3	XIE0841	09610	4911	5.0
08A	391049	762556	05/02/1974	1210	4.0			3	XIE0841	09610	4911	5.0
08A	391049	762556	06/14/1974	1006	.0	5.48		9	XIE0841	09610	4911	6.6
08A	391049	762556	06/14/1974	1004	2.0	4.25		9	XIE0841	09610	4911	6.6
08A	391049	762556	06/14/1974	1002	4.0	4.83		9	XIE0841	09610	4911	6.6
08A	391049	762556	06/14/1974	1000	5.6	6.30		9	XIE0841	09610	4911	6.6
08A	391049	762556	08/01/1974	754	.0	16.26		3	XIE0841	09610	4911	5.0
08A	391049	762556	08/01/1974	752	2.0	6.28		3	XIE0841	09610	4911	5.0
08A	391049	762556	08/01/1974	750	4.0	8.28		3	XIE0841	09610	4911	5.0
08A	391049	762556	09/18/1974	1319	.0	6.27		9	XIE0841	09610	4911	
08A	391049	762556	09/18/1974	1317	2.0	6.03		9	XIE0841	09610	4911	
08A	391049	762556	09/18/1974	1315	4.0	7.45		9	XIE0841	09610	4911	
08A	391049	762556	11/25/1974	1229	.0	3.29		9	XIE0841	09610	4911	4.0
08A	391049	762556	11/25/1974	1227	2.0	2.92		9	XIE0841	09610	4911	4.0
08A	391049	762556	11/25/1974	1225	4.0	4.20		9	XIE0841	09610	4911	4.0
08B	390948	762230	12/14/1973	1231	.0	7.08	22.5	3	XHF9875	09772	4851	5.5
08B	390948	762230	12/14/1973	1245	2.0	6.96	18.7	3	XHF9875	09772	4851	5.5
08B	390948	762230	12/14/1973	1250	4.5	4.16	12.8	3	XHF9875	09772	4851	5.5
08B	390948	762230	01/24/1974	1415	.0	3.26	22.8		XHF9875	09772	4851	5.0
08B	390948	762230	01/24/1974	1430	2.0	3.38	26.9	3	XHF9875	09772	4851	5.0
08B	390948	762230	01/24/1974	1435	4.0	3.60	24.7	3	XHF9875	09772	4851	5.0
08B	390948	762230	02/11/1974	1529	.0	27.08	15.6	1	XHF9875	09772	4851	5.1
08B	390948	762230	02/11/1974	1527	2.0	27.65	13.8	1	XHF9875	09772	4851	5.1
08B	390948	762230	02/11/1974	1525	4.0	33.45	13.5	1	XHF9875	09772	4851	5.1
08B	390948	762230	03/21/1974	1144	.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	03/21/1974	1142	2.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	03/21/1974	1140	4.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1418	.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1420	.0	12.17		3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1414	2.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1416	2.0	11.95		3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1410	4.0			3	XHF9875	09772	4851	5.0
08B	390948	762230	05/02/1974	1412	4.0	26.97		3	XHF9875	09772	4851	5.0
08B	390948	762230	06/12/1974	1136	.0	3.65		1	XHF9875	09772	4851	6.1
08B	390948	762230	06/12/1974	1134	2.0	3.25		1	XHF9875	09772	4851	6.1
08B	390948	762230	06/12/1974	1132	3.5			1	XHF9875	09772	4851	6.1
08B	390948	762230	06/12/1974	1130	4.1	11.12		1	XHF9875	09772	4851	6.1
08B	390948	762230	09/18/1974	1239	.0	2.59		9	XHF9875	09772	4851	
08B	390948	762230	09/18/1974	1237	2.0	3.36		9	XHF9875	09772	4851	
08B	390948	762230	09/18/1974	1235	4.0	2.71		9	XHF9875	09772	4851	
08B	390948	762230	09/18/1974	1232	6.0	6.78		9	XHF9875	09772	4851	
08B	390948	762230	09/18/1974	1230	7.0			9	XHF9875	09772	4851	
08B	390948	762230	11/25/1974	1206	.0	1.95		9	XHF9875	99772	4851	5.1
08B	390948	762230	11/25/1974	1204	2.0	2.17		9	XHF9875	99772	4851	5.1
08B	390948	762230	11/25/1974	1202	4.0	2.93		9	XHF9875	99772	4851	5.1
08B	390948	762230	11/25/1974	1200	4.8	4.02		9	XHF9875	99772	4851	5.1
08C	390847	761902	12/12/1973	1200	.0				XHG8810	09937	4790	9.5
08C	390847	761902	12/12/1973	1200	2.0				XHG8810	09937	4790	9.5
08C	390847	761902	12/12/1973	1200	4.0				XHG8810	09937	4790	9.5

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
08C	390847	761902	12/12/1973	1200	6.0				XHG8810	09937	4790	9.5
08C	390847	761902	12/12/1973	1200	8.0				XHG8810	09937	4790	9.5
08C	390847	761902	12/12/1973	1200	9.0				XHG8810	09937	4790	9.5
08C	390847	761902	01/23/1974	848	.0				XHG8810	09937	4790	9.4
08C	390847	761902	01/23/1974	846	2.0				XHG8810	09937	4790	9.4
08C	390847	761902	01/23/1974	844	4.0				XHG8810	09937	4790	9.4
08C	390847	761902	01/23/1974	842	6.0				XHG8810	09937	4790	9.4
08C	390847	761902	01/23/1974	840	8.4				XHG8810	09937	4790	9.4
08C	390847	761902	02/11/1974	1458	.0			1	XHG8810	09937	4790	9.0
08C	390847	761902	02/11/1974	1456	2.0			1	XHG8810	09937	4790	9.0
08C	390847	761902	02/11/1974	1454	4.0			1	XHG8810	09937	4790	9.0
08C	390847	761902	02/11/1974	1452	6.0			1	XHG8810	09937	4790	9.0
08C	390847	761902	02/11/1974	1450	8.0			1	XHG8810	09937	4790	9.0
08C	390847	761902	03/20/1974	845	.0	12.65	4.0	2	XHG8810	09937	4790	10.5
08C	390847	761902	03/20/1974	843	2.0	12.65		2	XHG8810	09937	4790	10.5
08C	390847	761902	03/20/1974	841	4.0	11.45		2	XHG8810	09937	4790	10.5
08C	390847	761902	03/20/1974	839	6.0	13.95	15.6	2	XHG8810	09937	4790	10.5
08C	390847	761902	03/20/1974	837	8.0	16.00		2	XHG8810	09937	4790	10.5
08C	390847	761902	03/20/1974	835	9.5	21.92	16.6	2	XHG8810	09937	4790	10.5
08C	390847	761902	05/02/1974	810	.0	10.43		3	XHG8810	09937	4790	13.0
08C	390847	761902	05/02/1974	808	2.0	8.58		3	XHG8810	09937	4790	13.0
08C	390847	761902	05/02/1974	806	4.0	12.63		3	XHG8810	09937	4790	13.0
08C	390847	761902	05/02/1974	804	6.0	14.43		3	XHG8810	09937	4790	13.0
08C	390847	761902	05/02/1974	802	8.0	23.04		3	XHG8810	09937	4790	13.0
08C	390847	761902	05/02/1974	800	10.0	27.55		3	XHG8810	09937	4790	13.0
08C	390847	761902	06/12/1974	1040	.0	4.62		1	XHG8810	09937	4790	10.7
08C	390847	761902	06/12/1974	1038	2.0	3.80		1	XHG8810	09937	4790	10.7
08C	390847	761902	06/12/1974	1036	4.0	2.58		1	XHG8810	09937	4790	10.7
08C	390847	761902	06/12/1974	1034	6.0	2.75		1	XHG8810	09937	4790	10.7
08C	390847	761902	06/12/1974	1032	8.0	2.38		1	XHG8810	09937	4790	10.7
08C	390847	761902	06/12/1974	1030	9.0	2.38		1	XHG8810	09937	4790	10.7
08C	390847	761902	07/31/1974	830	.0	7.85		9	XHG8810	09937	4790	9.6
08C	390847	761902	07/31/1974	828	2.0	3.51		9	XHG8810	09937	4790	9.6
08C	390847	761902	07/31/1974	826	4.0	3.32		9	XHG8810	09937	4790	9.6
08C	390847	761902	07/31/1974	824	6.0	5.14		9	XHG8810	09937	4790	9.6
08C	390847	761902	07/31/1974	822	8.0			9	XHG8810	09937	4790	9.6
08C	390847	761902	07/31/1974	820	8.6	16.58		9	XHG8810	09937	4790	9.6
08C	390847	761902	09/18/1974	1140	.0	4.88		9	XHG8810	09937	4790	
08C	390847	761902	09/18/1974	1138	2.0	4.30		9	XHG8810	09937	4790	
08C	390847	761902	09/18/1974	1136	4.0	4.11		9	XHG8810	09937	4790	
08C	390847	761902	09/18/1974	1134	6.0	19.94		9	XHG8810	09937	4790	
08C	390847	761902	09/18/1974	1132	8.0	13.20		9	XHG8810	09937	4790	
08C	390847	761902	09/18/1974	1130	9.0	25.54		9	XHG8810	09937	4790	
08C	390847	761902	11/25/1974	1135	.0	2.65		9	XHG8810	09937	4790	9.1
08C	390847	761902	11/25/1974	1133	2.0	2.74		9	XHG8810	09937	4790	9.1
08C	390847	761902	11/25/1974	1131	4.0	6.92		9	XHG8810	09937	4790	9.1
08C	390847	761902	11/25/1974	1129	6.0	2.95		9	XHG8810	09937	4790	9.1
08C	390847	761902	11/25/1974	1127	8.0	13.84		9	XHG8810	09937	4790	9.1
08C	390847	761902	11/25/1974	1125	9.0	12.16		9	XHG8810	09937	4790	9.1
09A	390411	761605	12/14/1973	930	.0	3.88		3	XHG4239	10078	4510	9.8

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
09A	390411	761605	12/14/1973	1015	2.0	3.72		3	XHG4239	10078	4510	9.8
09A	390411	761605	12/14/1973	1028	4.0	3.04	6.5	3	XHG4239	10078	4510	9.8
09A	390411	761605	12/14/1973	1033	6.0	3.00		3	XHG4239	10078	4510	9.8
09A	390411	761605	12/14/1973	1040	8.0	4.18	12.2	3	XHG4239	10078	4510	9.8
09A	390411	761605	01/24/1974	1530	.0	2.16	21.4	3	XHG4239	10078	4510	9.0
09A	390411	761605	01/24/1974	1535	2.0	2.26		3	XHG4239	10078	4510	9.0
09A	390411	761605	01/24/1974	1520	4.0	1.82	18.7	3	XHG4239	10078	4510	9.0
09A	390411	761605	01/24/1974	1615	6.0	2.10		3	XHG4239	10078	4510	9.0
09A	390411	761605	01/24/1974	1620	8.0	2.90	18.6	3	XHG4239	10078	4510	9.0
09A	390411	761605	03/21/1974	821	.0	8.67	17.4	3	XHG4239	10078	4510	7.0
09A	390411	761605	03/21/1974	819	2.0	9.00		3	XHG4239	10078	4510	7.0
09A	390411	761605	03/21/1974	817	4.0	8.65	22.7	3	XHG4239	10078	4510	7.0
09A	390411	761605	03/21/1974	815	6.0	6.71	20.4	3	XHG4239	10078	4510	7.0
09A	390411	761605	05/02/1974	936	.0	1.38		3	XHG4239	10078	4510	7.0
09A	390411	761605	05/02/1974	934	2.0	2.95		3	XHG4239	10078	4510	7.0
09A	390411	761605	05/02/1974	932	4.0	2.89		3	XHG4239	10078	4510	7.0
09A	390411	761605	05/02/1974	930	6.0	4.66		3	XHG4239	10078	4510	7.0
09A	390411	761605	06/14/1974	1108	.0	2.08		9	XHG4239	10078	4510	9.4
09A	390411	761605	06/14/1974	1106	2.0	2.19		9	XHG4239	10078	4510	9.4
09A	390411	761605	06/14/1974	1104	4.0	2.16		9	XHG4239	10078	4510	9.4
09A	390411	761605	06/14/1974	1102	6.0	2.39		9	XHG4239	10078	4510	9.4
09A	390411	761605	06/14/1974	1100	8.4	1.81		9	XHG4239	10078	4510	9.4
09A	390411	761605	07/31/1974	1618	.0	2.97		3	XHG4239	10078	4510	8.8
09A	390411	761605	07/31/1974	1616	1.7	2.46		3	XHG4239	10078	4510	8.8
09A	390411	761605	07/31/1974	1614	3.7	3.28		3	XHG4239	10078	4510	8.8
09A	390411	761605	07/31/1974	1612	5.7	3.08		3	XHG4239	10078	4510	8.8
09A	390411	761605	07/31/1974	1610	7.7	6.14		3	XHG4239	10078	4510	8.8
09A	390411	761605	09/18/1974	1013	.0	3.79		9	XHG4239	10078	4510	
09A	390411	761605	09/18/1974	1011	2.0	3.68		9	XHG4239	10078	4510	
09A	390411	761605	09/18/1974	1009	4.0	2.16		9	XHG4239	10078	4510	
09A	390411	761605	09/18/1974	1007	6.0	2.16		9	XHG4239	10078	4510	
09A	390411	761605	09/18/1974	1005	8.0	3.22		9	XHG4239	10078	4510	
09A	390411	761605	11/25/1974	1048	.0	10.57		9	XHG4239	10078	4510	7.9
09A	390411	761605	11/25/1974	1046	2.0	6.44		9	XHG4239	10078	4510	7.9
09A	390411	761605	11/25/1974	1044	4.0	1.71		9	XHG4239	10078	4510	7.9
09A	390411	761605	11/25/1974	1042	6.0	2.00		9	XHG4239	10078	4510	7.9
09A	390411	761605	11/25/1974	1040	7.5	5.64		9	XHG4239	10078	4510	7.9
10A	390231	762332	12/13/1973	1030	.0	6.02		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1045	2.0	5.90		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1100	4.0	9.52		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1120	6.0	9.66		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1140	8.0	9.34		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1200	10.0	13.84		3	XHF2565	09726	4407	11.5
10A	390231	762332	12/13/1973	1220	11.0	13.16		3	XHF2565	09726	4407	11.5
10A	390231	762332	01/23/1974	1708	.0	3.02		3	XHF2565	09726	4407	9.0
10A	390231	762332	01/23/1974	1706	2.0	3.92		3	XHF2565	09726	4407	9.0
10A	390231	762332	01/23/1974	1704	4.0	5.74		3	XHF2565	09726	4407	9.0
10A	390231	762332	01/23/1974	1702	6.0	15.74		3	XHF2565	09726	4407	9.0
10A	390231	762332	01/23/1974	1700	8.0	37.58		3	XHF2565	09726	4407	9.0
10A	390231	762332	02/11/1974	1258	.0	7.05		1	XHF2565	09726	4407	12.0

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
10A	390231	762332	02/11/1974	1256	2.0	6.70		1	XHF2565	09726	4407	12.0
10A	390231	762332	02/11/1974	1254	4.0	6.15		1	XHF2565	09726	4407	12.0
10A	390231	762332	02/11/1974	1252	6.0	5.72		1	XHF2565	09726	4407	12.0
10A	390231	762332	02/11/1974	1250	8.0	7.70		1	XHF2565	09726	4407	12.0
10A	390231	762332	03/20/1974	1240	.0	11.80		3	XHF2565	09726	4407	10.7
10A	390231	762332	03/20/1974	1238	2.0	11.19		3	XHF2565	09726	4407	10.7
10A	390231	762332	03/20/1974	1236	4.0	10.52		3	XHF2565	09726	4407	10.7
10A	390231	762332	03/20/1974	1234	6.0	11.08		3	XHF2565	09726	4407	10.7
10A	390231	762332	03/20/1974	1232	8.0	13.97		3	XHF2565	09726	4407	10.7
10A	390231	762332	03/20/1974	1230	9.0	17.42		3	XHF2565	09726	4407	10.7
10A	390231	762332	05/01/1974	1538	.0	4.34		3	XHF2565	09726	4407	8.8
10A	390231	762332	05/01/1974	1536	2.0	4.84		3	XHF2565	09726	4407	8.8
10A	390231	762332	05/01/1974	1534	4.0	4.19		3	XHF2565	09726	4407	8.8
10A	390231	762332	05/01/1974	1532	6.0	4.56		3	XHF2565	09726	4407	8.8
10A	390231	762332	05/01/1974	1530	8.0	23.84		3	XHF2565	09726	4407	8.8
10A	390231	762332	06/14/1974	1157	.0	1.82		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1155	2.0	2.11		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1153	4.0	1.97		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1151	6.0	2.70		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1149	8.0	2.10		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1147	10.0	2.38		9	XHF2565	09726	4407	13.0
10A	390231	762332	06/14/1974	1145	12.0	3.15		9	XHF2565	09726	4407	13.0
10A	390231	762332	07/31/1974	1243	1.0	11.02		3	XHF2565	09726	4407	10.0
10A	390231	762332	07/31/1974	1241	3.0	5.62		3	XHF2565	09726	4407	10.0
10A	390231	762332	07/31/1974	1239	5.0	5.20		3	XHF2565	09726	4407	10.0
10A	390231	762332	07/31/1974	1237	7.0	9.31		3	XHF2565	09726	4407	10.0
10A	390231	762332	07/31/1974	1235	9.0	13.14		3	XHF2565	09726	4407	10.0
10A	390231	762332	09/18/1974	912	.0	4.56		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	910	2.0	4.78		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	908	4.0	9.38		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	906	6.0	8.16		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	904	8.0	9.54		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	902	10.0	9.78		9	XHF2565	09726	4407	
10A	390231	762332	09/18/1974	900	11.0			9	XHF2565	09726	4407	
10A	390231	762332	11/25/1974	931	.0	2.42		9	XHF2565	09726	4407	9.0
10A	390231	762332	11/25/1974	929	2.0	1.91		9	XHF2565	09726	4407	9.0
10A	390231	762332	11/25/1974	927	4.0	1.42		9	XHF2565	09726	4407	9.0
10A	390231	762332	11/25/1974	925	6.0	2.51		9	XHF2565	09726	4407	9.0
10A	390231	762332	11/25/1974	922	8.0	3.32		9	XHF2565	09726	4407	9.0
10A	390231	762332	11/25/1974	920	9.0	4.31		9	XHF2565	09726	4407	9.0
10B	390227	762136	12/12/1973	1255	.0	6.90	20.6	2	XHF2584	09817	4403	11.6
10B	390227	762136	12/12/1973	1253	2.0	6.74		2	XHF2584	09817	4403	11.6
10B	390227	762136	12/12/1973	1251	4.0	6.64		2	XHF2584	09817	4403	11.6
10B	390227	762136	12/12/1973	1249	6.0	6.00		2	XHF2584	09817	4403	11.6
10B	390227	762136	12/12/1973	1247	8.0	4.78		2	XHF2584	09817	4403	11.6
10B	390227	762136	12/12/1973	1245	10.0	12.86	10.4	2	XHF2584	09817	4403	11.6
10B	390227	762136	12/13/1973	845	.0	4.06	23.3	3	XHF2584	09817	4403	11.6
10B	390227	762136	12/13/1973	855	2.0	4.24		3	XHF2584	09817	4403	11.6
10B	390227	762136	12/13/1973	910	4.0	4.56		3	XHF2584	09817	4403	11.6
10B	390227	762136	12/13/1973	920	6.0	6.44		3	XHF2584	09817	4403	11.6

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
10B	390227	762136	12/13/1973	930	8.0	10.62		3	XHF2584	09817	4403	11.6
10B	390227	762136	12/13/1973	950	10.0	15.46	13.3	3	XHF2584	09817	4403	11.6
10B	390227	762136	01/23/1974	1635	.0	2.74	20.6	3	XHF2584	09817	4403	11.0
10B	390227	762136	01/23/1974	1540	.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1538	2.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1700	2.0	3.58		3	XHF2584	09817	4403	11.0
10B	390227	762136	01/23/1974	1536	4.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1705	4.0	2.38		3	XHF2584	09817	4403	11.0
10B	390227	762136	01/23/1974	1715	6.0	2.48	19.4	3	XHF2584	09817	4403	11.0
10B	390227	762136	01/23/1974	1534	6.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1532	8.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1720	8.0	9.44		3	XHF2584	09817	4403	11.0
10B	390227	762136	01/23/1974	1530	10.0				XHF2584	09817	4403	12.8
10B	390227	762136	01/23/1974	1725	10.0	29.96	13.8	3	XHF2584	09817	4403	11.0
10B	390227	762136	02/11/1974	1330	.0	5.32	27.2	1	XHF2584	09817	4403	12.0
10B	390227	762136	02/11/1974	1328	2.0	4.52		1	XHF2584	09817	4403	12.0
10B	390227	762136	02/11/1974	1326	4.0	5.40		1	XHF2584	09817	4403	12.0
10B	390227	762136	02/11/1974	1324	6.0	4.40		1	XHF2584	09817	4403	12.0
10B	390227	762136	02/11/1974	1322	8.0	4.40		1	XHF2584	09817	4403	12.0
10B	390227	762136	02/11/1974	1320	10.0	4.48	30.2	1	XHF2584	09817	4403	12.0
10B	390227	762136	03/20/1974	940	.0	13.08	15.4	1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	1352	.0	12.58	15.6	3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	1350	2.0	12.31	15.6	3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	938	2.0	12.26		1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	936	4.0	11.70		1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	1348	4.0	11.98	15.6	3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	934	6.0	11.38	17.2	1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	1346	6.0	5.85	13.3	3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	932	8.0	11.86		1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	1344	8.0	12.64		3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	930	10.0	11.82	20.3	1	XHF2584	09817	4403	11.5
10B	390227	762136	03/20/1974	1342	10.0	37.59		3	XHF2584	09817	4403	13.0
10B	390227	762136	03/20/1974	1340	12.0	56.20	13.2	3	XHF2584	09817	4403	13.0
10B	390227	762136	05/02/1974	1005	.0	5.44		1	XHF2584	09817	4403	12.1
10B	390227	762136	05/02/1974	742	.0	3.40		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	740	2.0	4.23		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	1003	2.0	5.74		1	XHF2584	09817	4403	12.1
10B	390227	762136	05/02/1974	738	4.0	3.44		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	1001	4.0	5.48		1	XHF2584	09817	4403	12.1
10B	390227	762136	05/02/1974	736	6.0	4.23		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	959	6.0	5.34		1	XHF2584	09817	4403	12.1
10B	390227	762136	05/02/1974	734	8.0	3.16		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	957	8.0	5.94		1	XHF2584	09817	4403	12.1
10B	390227	762136	05/02/1974	732	10.0	9.46		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	730	11.0	6.52		3	XHF2584	09817	4403	11.9
10B	390227	762136	05/02/1974	955	11.0	7.36		1	XHF2584	09817	4403	12.1
10B	390227	762136	06/12/1974	907	.0	1.72		1	XHF2584	09817	4403	12.0
10B	390227	762136	06/12/1974	905	2.0	1.72		1	XHF2584	09817	4403	12.0
10B	390227	762136	06/12/1974	903	4.0	2.35		1	XHF2584	09817	4403	12.0
10B	390227	762136	06/12/1974	901	6.0	1.88		1	XHF2584	09817	4403	12.0

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
10B	390227	762136	06/12/1974	859	8.0	1.96		1	XHF2584	09817	4403	12.0
10B	390227	762136	06/12/1974	857	10.0			1	XHF2584	09817	4403	12.0
10B	390227	762136	06/12/1974	855	11.0	1.16		1	XHF2584	09817	4403	12.0
10B	390227	762136	07/31/1974	1340	.0	5.46		3	XHF2584	09817	4403	11.0
10B	390227	762136	07/31/1974	1338	2.0	3.28		3	XHF2584	09817	4403	11.0
10B	390227	762136	07/31/1974	1336	4.0	2.68		3	XHF2584	09817	4403	11.0
10B	390227	762136	07/31/1974	1334	6.0	3.66		3	XHF2584	09817	4403	11.0
10B	390227	762136	07/31/1974	1332	8.0	6.57		3	XHF2584	09817	4403	11.0
10B	390227	762136	07/31/1974	1330	10.0	11.02		3	XHF2584	09817	4403	11.0
10B	390227	762136	09/18/1974	930	.0	3.99		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	928	2.0	4.11		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	926	4.0	3.51		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	924	6.0	4.27		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	922	8.0	4.25		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	920	10.0	9.00		9	XHF2584	09817	4403	
10B	390227	762136	09/18/1974	918	12.0	9.68		9	XHF2584	09817	4403	
10B	390227	762136	11/25/1974	956	.0	1.63		9	XHF2584	09817	4403	11.7
10B	390231	762332	11/25/1974	954	2.0	1.42		9	XHF2565	09726	4407	9.0
10B	390227	762136	11/25/1974	952	4.0	1.27		9	XHF2584	09817	4403	11.7
10B	390227	762136	11/25/1974	950	6.0	1.62		9	XHF2584	09817	4403	11.7
10B	390227	762136	11/25/1974	949	8.0	1.71		9	XHF2584	09817	4403	11.7
10B	390227	762136	11/25/1974	947	10.0	2.53		9	XHF2584	09817	4403	11.7
10B	390227	762136	11/25/1974	945	11.5	4.04		9	XHF2584	09817	4403	11.7
10C	390223	761942	12/12/1973	1525	.0	6.84		3	XHG2403	09908	4440	5.5
10C	390223	761942	12/12/1973	1545	2.0	6.98		3	XHG2403	09908	4440	5.5
10C	390223	761942	12/12/1973	1600	4.5	10.44		3	XHG2403	09908	4440	5.5
10C	390223	761942	01/23/1974	1510	.0	3.30		3	XHG2403	09908	4440	6.0
10C	390223	761942	01/23/1974	1520	2.0	3.16		3	XHG2403	09908	4440	6.0
10C	390223	761942	01/23/1974	1530	4.0	2.78		3	XHG2403	09908	4440	6.0
10C	390223	761942	01/23/1974	1550	6.0	5.50		3	XHG2403	09908	4440	6.0
10C	390223	761942	02/11/1974	1356	.0	21.92		1	XHG2403	09908	4440	7.0
10C	390223	761942	02/11/1974	1354	2.0	22.15		1	XHG2403	09908	4440	7.0
10C	390223	761942	02/11/1974	1352	4.0	23.48		1	XHG2403	09908	4440	7.0
10C	390223	761942	02/11/1974	1350	6.0	24.60		1	XHG2403	09908	4440	7.0
10C	390223	761942	03/20/1974	1501	.0	11.51		3	XHG2403	09908	4440	7.0
10C	390223	761942	03/20/1974	1459	2.0	12.19		3	XHG2403	09908	4440	7.0
10C	390223	761942	03/20/1974	1457	4.0	10.06		3	XHG2403	09908	4440	7.0
10C	390223	761942	03/20/1974	1455	6.0	13.29		3	XHG2403	09908	4440	7.0
10C	390223	761942	06/14/1974	1221	.0	1.51		9	XHG2403	09908	4440	6.3
10C	390223	761942	06/14/1974	1219	2.0	2.82		9	XHG2403	09908	4440	6.3
10C	390223	761942	06/14/1974	1217	4.0	3.21		9	XHG2403	09908	4440	6.3
10C	390223	761942	06/14/1974	1215	5.3	3.26		9	XHG2403	09908	4440	6.3
10C	390223	761942	07/31/1974	1519	.4	8.51		3	XHG2403	09908	4440	5.4
10C	390223	761942	07/31/1974	1517	2.4	4.20		3	XHG2403	09908	4440	5.4
10C	390223	761942	07/31/1974	1515	4.4	14.40		3	XHG2403	09908	4440	5.4
10C	390223	761942	09/18/1974	948	.0	5.07		9	XHG2403	09908	4440	
10C	390223	761942	09/18/1974	946	2.0	4.72		9	XHG2403	09908	4440	
10C	390223	761942	09/18/1974	944	4.0	5.03		9	XHG2403	09908	4440	
10C	390223	761942	09/18/1974	942	6.0	11.38		9	XHG2403	09908	4440	
10C	390223	761942	09/18/1974	940	7.0			9	XHG2403	09908	4440	

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
10C	390223	761942	11/25/1974	1016	.0	4.51		9	XHG2403	09908	4440	6.0
10C	390223	761942	11/25/1974	1014	2.0	1.84		9	XHG2403	09908	4440	6.0
10C	390223	761942	11/25/1974	1012	4.0	2.07		9	XHG2403	09908	4440	6.0
10C	390223	761942	11/25/1974	1010	6.0	27.70		9	XHG2403	09908	4440	6.0
11A	385810	762458	12/12/1973	851	.0	5.82		2	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	930	.0	5.92		3	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	849	2.0	5.34		2	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	945	2.0	6.26		3	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	1000	4.0	6.34		3	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	847	4.0	5.60		2	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	845	5.0	5.72		2	XGF8250	09660	4146	6.5
11A	385810	762458	12/12/1973	1020	6.0	6.44		3	XGF8250	09660	4146	6.5
11A	385810	762458	01/23/1974	845	.0	2.45		3	XGF8250	09660	4146	6.0
11A	385810	762458	01/23/1974	738	.0				XGF8250	09660	4146	8.5
11A	385810	762458	01/23/1974	736	1.0				XGF8250	09660	4146	8.5
11A	385810	762458	01/23/1974	858	2.0	2.86		3	XGF8250	09660	4146	6.0
11A	385810	762458	01/23/1974	734	2.0				XGF8250	09660	4146	8.5
11A	385810	762458	01/23/1974	732	4.0				XGF8250	09660	4146	8.5
11A	385810	762458	01/23/1974	910	4.0	2.90		3	XGF8250	09660	4146	6.0
11A	385810	762458	01/23/1974	920	5.0	7.98		3	XGF8250	09660	4146	6.0
11A	385810	762458	01/23/1974	730	6.0				XGF8250	09660	4146	8.5
11A	385810	762458	02/11/1974	1006	.0	4.36		1	XGF8250	09660	4146	7.0
11A	385810	762458	02/11/1974	1004	2.0	4.24		1	XGF8250	09660	4146	7.0
11A	385810	762458	02/11/1974	1002	4.0	4.66		1	XGF8250	09660	4146	7.0
11A	385810	762458	02/11/1974	1000	6.0	4.22		1	XGF8250	09660	4146	7.0
11A	385810	762458	03/20/1974	853	.0	8.96		1	XGF8250	09660	4146	6.6
11A	385810	762458	03/20/1974	751	.0	9.71		3	XGF8250	09660	4146	7.0
11A	385810	762458	03/20/1974	851	2.0	8.76		1	XGF8250	09660	4146	6.6
11A	385810	762458	03/20/1974	749	2.0	9.82		3	XGF8250	09660	4146	7.0
11A	385810	762458	03/20/1974	747	4.0	9.55		3	XGF8250	09660	4146	7.0
11A	385810	762458	03/20/1974	849	4.0	8.62		1	XGF8250	09660	4146	6.6
11A	385810	762458	03/20/1974	745	6.0	11.00		3	XGF8250	09660	4146	7.0
11A	385810	762458	03/20/1974	847	6.0	9.34		1	XGF8250	09660	4146	6.6
11A	385810	762458	03/20/1974	845	6.6			1	XGF8250	09660	4146	6.6
11A	385810	762458	05/01/1974	813	.0	4.11		3	XGF8250	09660	4146	9.0
11A	385810	762458	05/01/1974	811	2.0	4.42		3	XGF8250	09660	4146	9.0
11A	385810	762458	05/01/1974	809	4.0	4.06		3	XGF8250	09660	4146	9.0
11A	385810	762458	05/01/1974	807	6.0	5.74		3	XGF8250	09660	4146	9.0
11A	385810	762458	05/01/1974	805	8.0	14.14		3	XGF8250	09660	4146	9.0
11A	385810	762458	05/02/1974	719	.0	10.38		1	XGF8250	09660	4146	
11A	385810	762458	05/02/1974	717	2.0	10.16		1	XGF8250	09660	4146	
11A	385810	762458	05/02/1974	715	4.7	10.48		1	XGF8250	09660	4146	
11A	385810	762458	06/12/1974	806	.0	1.95		1	XGF8250	09660	4146	7.9
11A	385810	762458	06/12/1974	804	2.0	2.72		1	XGF8250	09660	4146	7.9
11A	385810	762458	06/12/1974	802	4.0	3.20		1	XGF8250	09660	4146	7.9
11A	385810	762458	06/12/1974	800	6.0	3.66		1	XGF8250	09660	4146	7.9
11A	385810	762458	07/31/1974	719	.4	6.42		3	XGF8250	09660	4146	5.5
11A	385810	762458	07/31/1974	717	2.4	7.15		3	XGF8250	09660	4146	5.5
11A	385810	762458	07/31/1974	715	4.4	7.38		3	XGF8250	09660	4146	5.5
11A	385810	762458	09/18/1974	730	.0	7.34		9	XGF8250	09660	4146	

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
11A	385810	762458	09/18/1974	728	2.0	4.17		9	XGF8250	09660	4146	
11A	385810	762458	09/18/1974	726	4.0	4.59		9	XGF8250	09660	4146	
11A	385810	762458	09/18/1974	724	6.0	6.34		9	XGF8250	09660	4146	
11A	385810	762458	11/25/1974	751	.0	1.53		9	XGF8250	09660	4146	5.0
11A	385810	762458	11/25/1974	749	2.0	1.53		9	XGF8250	09660	4146	5.0
11A	385810	762458	11/25/1974	747	4.0	2.57		9	XGF8250	09660	4146	5.0
11A	385810	762458	11/25/1974	745	5.0	2.53		9	XGF8250	09660	4146	5.0
11B	385756	762348	12/12/1973	1136	.0	5.18		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1146	2.0	5.22		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1156	4.0	5.40		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1205	6.0	4.92		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1212	8.0	4.20		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1220	10.0	5.28		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1228	12.0	4.08		3	XGF7962	09714	4132	14.0
11B	385756	762348	12/12/1973	1235	13.0	27.94		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1009	.0	3.02		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1030	2.0	2.82		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1037	4.0	3.08		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1045	6.0	4.04		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1100	8.0	9.28		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1120	10.0	6.92		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1126	12.0	9.48		3	XGF7962	09714	4132	14.0
11B	385756	762348	01/23/1974	1140	13.0	14.48		3	XGF7962	09714	4132	14.0
11B	385756	762348	02/11/1974	1047	.0	3.76		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1045	2.0	3.66		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1043	4.0	3.66		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1041	6.0	3.50		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1039	8.0	3.42		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1037	10.0	5.88		1	XGF7962	09714	4132	13.3
11B	385756	762348	02/11/1974	1035	12.3	6.40		1	XGF7962	09714	4132	13.3
11B	385756	762348	03/20/1974	854	.0	8.08		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	852	2.0	8.81		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	850	4.0	11.31		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	848	6.0	7.81		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	846	8.0	6.91		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	844	10.0	12.56		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	842	12.0	15.56		3	XGF7962	09714	4132	14.0
11B	385756	762348	03/20/1974	840	13.0	14.80		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1029	.0	3.38		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1027	2.0	3.11		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1025	4.0	3.25		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1023	6.0	2.69		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1021	8.0	3.72		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1019	10.0	8.65		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1017	12.0	11.50		3	XGF7962	09714	4132	14.0
11B	385756	762348	05/01/1974	1015	13.0	11.89		3	XGF7962	09714	4132	14.0
11B	385756	762348	06/14/1974	1259	.0	2.16		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1257	2.0	2.30		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1255	4.0	2.16		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1253	6.0	1.60		9	XGF7962	09714	4132	15.4

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
11B	385756	762348	06/14/1974	1251	8.0	.98		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1249	10.0	1.50		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1247	12.0	2.02		9	XGF7962	09714	4132	15.4
11B	385756	762348	06/14/1974	1245	14.4	2.34		9	XGF7962	09714	4132	15.4
11B	385756	762348	07/31/1974	827	.0	4.32		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	825	2.0	3.35		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	823	4.0	4.92		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	821	6.0	5.15		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	819	8.0	6.18		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	817	10.0	9.75		3	XGF7962	09714	4132	13.0
11B	385756	762348	07/31/1974	815	12.0	18.72		3	XGF7962	09714	4132	13.0
11B	385756	762348	09/18/1974	756	.0	3.50		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	754	2.0	3.46		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	752	4.0	3.91		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	750	6.0	3.53		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	748	8.0	3.61		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	746	10.0	5.19		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	744	12.0	10.42		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	742	14.0	20.00		9	XGF7962	09714	4132	
11B	385756	762348	09/18/1974	740	15.0	19.06		9	XGF7962	09714	4132	
11B	385756	762348	11/25/1974	814	.0	1.49		9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	812	2.0			9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	810	4.0	1.81		9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	808	6.0			9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	806	8.0	2.40		9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	804	10.0			9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	802	12.0	5.55		9	XGF7962	09714	4132	13.0
11B	385756	762348	11/25/1974	800	13.0	13.30		9	XGF7962	09714	4132	13.0
11C	385743	762248	12/12/1973	1304	.0	5.42		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1320	2.0	5.50		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1335	4.0	4.02		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1350	8.0	4.20		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1405	12.0	4.24	26.0	3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1420	16.0	4.26		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1435	20.0	8.54		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1450	24.0	5.76		3	XGF7772	09762	4118	29.3
11C	385743	762248	12/12/1973	1504	27.5	12.14	15.6	3	XGF7772	09762	4118	29.3
11C	385743	762248	01/23/1974	926	.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1215	.0	2.86	29.4	3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	1220	2.0	2.66		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	924	2.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	922	4.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1235	4.0	2.66		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	920	6.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	918	8.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1300	8.0	3.06		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	916	10.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	914	12.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1315	12.0	8.98	15.4	3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	912	14.0				XGF7772	09762	4118	27.0

STATION C202	LATITUDE C222	LONGITUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
11C	385743	762248	01/23/1974	1320	16.0	13.10		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	910	16.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	908	18.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1350	20.0	11.42		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	906	20.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	904	22.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	902	24.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1400	24.0	9.58		3	XGF7772	09762	4118	28.0
11C	385743	762248	01/23/1974	900	26.0				XGF7772	09762	4118	27.0
11C	385743	762248	01/23/1974	1405	27.0	10.84	8.7	3	XGF7772	09762	4118	28.0
11C	385743	762248	02/11/1974	1148	.0	3.78	19.2	1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1146	2.0	3.40		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1144	4.0	3.58		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1142	6.0	3.62		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1140	8.0	3.70		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1138	10.0			1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1136	12.0	4.08	22.1	1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1134	16.0	4.80		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1132	20.0	6.32		1	XGF7772	09762	4118	25.0
11C	385743	762248	02/11/1974	1130	24.0	8.90		1	XGF7772	09762	4118	25.0
11C	385743	762248	03/20/1974	1046	.0	7.79	15.5	3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1044	4.0	7.18		3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1042	8.0	5.89		3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1040	12.0	7.69	9.0	3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1038	16.0	9.82		3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1036	20.0	11.10		3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1034	24.0	13.50		3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1032	28.0	16.65	15.8	3	XGF7772	09762	4118	30.0
11C	385743	762248	03/20/1974	1030	29.0			3	XGF7772	09762	4118	30.0
11C	385743	762248	05/01/1974	1345	.0	9.53		3	XGF7772	09762	4118	21.0
11C	385743	762248	05/01/1974	1343	4.0	3.21		3	XGF7772	09762	4118	21.0
11C	385743	762248	05/01/1974	1341	8.0	2.47		3	XGF7772	09762	4118	21.0
11C	385743	762248	05/01/1974	1339	12.0	3.31		3	XGF7772	09762	4118	21.0
11C	385743	762248	05/01/1974	1337	16.0	4.56		3	XGF7772	09762	4118	21.0
11C	385743	762248	05/01/1974	1335	20.0	10.57		3	XGF7772	09762	4118	21.0
11C	385743	762248	06/12/1974	724	.0	1.82		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	722	2.0	1.68		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	720	4.0	1.80		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	718	6.0			1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	716	8.0	1.84		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	714	10.0			1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	712	12.0	1.94		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	710	14.0			1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	708	16.0	1.38		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	706	18.0			1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	704	20.0	1.35		1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	702	24.0			1	XGF7772	09762	4118	27.0
11C	385743	762248	06/12/1974	700	26.0	1.57		1	XGF7772	09762	4118	27.0
11C	385743	762248	07/31/1974	1012	2.4	3.22		3	XGF7772	09762	4118	27.4
11C	385743	762248	07/31/1974	1010	6.4	4.74		3	XGF7772	09762	4118	27.4

STAT ION C202	LATI TUDE C222	LONGI TUDE C223	DATE MM DD YY C203	TIME HRS C204	SAMPLE DEPT M C210	T S SED MG-L C219	S SED P ORGN C220	VESSEL CODE C221	DNR STATION C224	MD GRID CODE E C225	MD GRID CODE N C226	STATION DEPT M C227
**												
11C	385743	762248	07/31/1974	1008	10.4	3.34		3	XGF7772	09762	4118	27.4
11C	385743	762248	07/31/1974	1006	14.4	2.77		3	XGF7772	09762	4118	27.4
11C	385743	762248	07/31/1974	1004	18.4	3.02		3	XGF7772	09762	4118	27.4
11C	385743	762248	07/31/1974	1002	22.4	6.02		3	XGF7772	09762	4118	27.4
11C	385743	762248	07/31/1974	1000	26.4	28.74		3	XGF7772	09762	4118	27.4
11C	385743	762248	09/18/1974	824	.0	4.38		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	822	2.0	2.88		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	820	4.0	3.26		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	818	6.0	4.43		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	816	8.0	4.11		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	814	10.0	3.86		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	812	12.0	3.16		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	810	14.0	5.02		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	808	16.0	12.07		9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	806	18.0			9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	804	20.0			9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	802	22.0			9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	800	26.0			9	XGF7772	09762	4118	
11C	385743	762248	09/18/1974	758	27.0			9	XGF7772	09762	4118	
11C	385743	762248	11/25/1974	843	.0	1.40		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	841	2.0	1.10		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	839	4.0	1.38		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	837	6.0	1.38		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	835	8.0	1.07		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	833	10.0			9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	831	12.0	1.16		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	829	16.0	3.12		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	827	20.0	3.93		9	XGF7772	09762	4118	24.0
11C	385743	762248	11/25/1974	825	24.0	5.01		9	XGF7772	09762	4118	24.0

STA TION C402	LATI TUDE C414	LONGI TUDE C415	DATE MM DD YY C403	TIME HRS C404	MED GRAIN SIZE PHI C405	MODE GRAIN SIZE PHI C406	PERCT SAND C407	PERCT CLAY C408
**								
001	391640	763555	10/10/1973	1022	6.36	3.92	9.37	90.63
002	391520	763410	10/10/1973	1115	9.03	10.25	1.93	98.07
003	391520	763542	10/10/1973	1140	6.56	3.90	9.88	90.12
005	391317	763347	10/10/1973	1305	3.87	3.87	2.18	97.82
006	391333	763010	10/10/1973	1347	5.31	4.25	3.45	96.55
007	391024	762926	10/10/1973	1422	9.03	10.25	6.45	93.55
007X	391024	762926	10/10/1973		9.07	10.25	5.52	94.48
008	391122	762723	10/10/1973		4.00	1.88	50.00	50.00
009	391006	762610	10/10/1973	1512	7.62	7.25	1.64	98.36
010	391135	762534	10/10/1973		6.38	1.88	35.49	64.51
011	390446	762356	10/10/1973		2.87	1.88	61.37	38.63
012	390407	762247	10/10/1973	1625	9.44	10.25	2.31	97.69
013	390232	761845	10/10/1973		1.96	1.88	90.08	9.92
014	390045	762106	10/10/1973	1720	8.68	10.25	5.73	94.27
015	390912	761724	10/12/1973		1.94	1.88	84.92	15.08
016	390950	762030	10/12/1973	1010	8.12	10.25	.82	99.18
017	391218	761551	10/12/1973	1125	7.06	6.25	2.96	97.04
018	391328	761852	10/12/1973	1140	4.00	3.88	50.85	49.15
019	391536	761648	10/12/1973	1430	7.22	3.90	7.34	92.66
020	391548	761948	10/12/1973		2.96	2.87	66.72	33.28
021	391736	761806	10/12/1973	1300	7.80	10.25	2.47	97.53
023	391648	761512	10/12/1973	1555	7.08	10.25	5.88	94.12
024	391403	762142	10/12/1973	1155	8.57	10.25	4.60	95.40
025	391518	761342	10/16/1973	1620	7.99	10.25	1.61	98.39
027	391910	761148	10/16/1973		4.58	2.87	44.54	55.46
028	392036	761142	10/16/1973	1532	7.43	10.25	5.64	94.36
032	392218	760649	10/16/1973		4.22	1.88	48.55	51.45
033	392242	760754	10/16/1973	1435	6.46	5.25	4.08	95.92
034	392509	760538	10/16/1973	1120	7.36	3.91	7.39	92.61
034X	392509	760538	10/16/1973		7.37	7.25	6.32	93.68
035	392403	760442	10/16/1973	1055	6.00	3.93	8.49	91.51
036	392248	760306	10/16/1973	1030	6.74	3.90	9.71	90.29
037	392212	755830	10/16/1973		1.89	1.88	95.76	4.24
038	392142	755318	10/16/1973	910	9.01	10.25	4.76	95.24
040	392622	760130	10/15/1973		6.88	10.25	4.61	95.39
041	391330	763146	10/10/1973	1220	9.14	10.25	6.29	93.71
041X	392640	760250	10/16/1973		3.97	3.89	54.01	45.99
042	392940	760515	10/16/1973		2.77	1.88	88.66	11.34
043	393245	760450	10/16/1973		.92	.88	99.99	.01
044	392912	760000	10/15/1973		1.89	1.88	96.29	3.71
045	392906	765636	10/15/1973		3.90	3.88	80.59	19.41
046	393940	755336	10/15/1973		6.87	2.87	23.58	76.42
047	393152	755042	10/15/1973		1.90	1.88	99.99	.01
048	393320	755230	10/15/1973	1240	7.18	10.25	6.53	93.47
049	392833	755321	10/15/1973	1440	7.85	10.25	2.14	97.86
050	393340	755925	10/15/1973	1715	7.12	10.25	3.40	96.60
051	390810	761922	10/17/1973	1300	8.69	10.25	5.88	94.12
052	390305	761514	10/17/1973	1020	9.56	10.25	.99	99.01
053	390048	761538	10/17/1973	1035	10.00	10.25	2.65	97.35

STA TION C402	LATI TUDE C414	LONGI TUDE C415	DATE MM DD YY C403	TIME HRS C404	INMAN MEAN C409	INMAN SIGMA C410	INMAN SKEWN 1 C411	INMAN SKEWN 2 C412	INMAN KURTOS C413
**									
001	391640	763555	10/10/1973	1022	7.17	2.83	.29	.33	.20
002	391520	763410	10/10/1973	1115	8.72	1.89	-00.16	-00.55	.52
003	391520	763542	10/10/1973	1140	7.36	2.89	.28	.26	.19
005	391317	763347	10/10/1973	1305	3.87	.08	.00	.00	.32
006	391333	763010	10/10/1973	1347	7.16	2.87	.64	.72	.16
007	391024	762926	10/10/1973	1422	8.35	2.22	-00.31	-00.73	.56
007X	391024	762926	10/10/1973		8.40	2.17	-00.31	-00.77	.60
008	391122	762723	10/10/1973		5.43	3.62	.40	.47	.33
009	391006	762610	10/10/1973	1512	7.74	1.83	.07	-00.01	.63
010	391135	762534	10/10/1973		6.13	4.18	-00.06	-00.03	.08
011	390446	762356	10/10/1973		5.09	3.28	.68	.84	.43
012	390407	762247	10/10/1973	1625	8.48	2.18	-00.45	-00.79	.45
013	390232	761845	10/10/1973		2.37	.59	.70	4.66	5.50
014	390045	762106	10/10/1973	1720	8.06	2.53	-00.25	-00.50	.37
015	390912	761724	10/12/1973		2.87	1.07	.87	3.29	2.47
016	390950	762030	10/12/1973	1010	8.33	2.08	.10	-00.12	.42
017	391218	761551	10/12/1973	1125	7.62	2.41	.23	.16	.35
018	391328	761852	10/12/1973	1140	6.95	3.12	.95	1.04	.11
019	391536	761648	10/12/1973	1430	7.65	2.76	.16	.05	.25
020	391548	761948	10/12/1973		5.71	2.91	.95	1.13	.48
021	391736	761806	10/12/1973	1300	7.69	2.67	-00.04	-00.12	.24
023	391648	761512	10/12/1973	1555	7.57	2.82	.17	.11	.21
024	391403	762142	10/12/1973	1155	8.20	2.34	-00.16	-00.45	.43
025	391518	761342	10/16/1973	1620	8.28	2.14	.14	.02	.31
027	391910	761148	10/16/1973		6.23	3.35	.49	.63	.18
028	392036	761142	10/16/1973	1532	7.67	2.76	.09	-00.01	.24
032	392218	760649	10/16/1973		5.36	3.51	.33	.44	.36
033	392242	760754	10/16/1973	1435	7.57	2.63	.42	.36	.27
034	392509	760538	10/16/1973	1120	7.41	2.73	.01	-00.01	.25
034X	392509	760538	10/16/1973		7.43	2.71	.02	-00.02	.25
035	392403	760442	10/16/1973	1055	7.20	2.82	.43	.46	.21
036	392248	760306	10/16/1973	1030	7.46	2.94	.24	.20	.18
037	392212	755830	10/16/1973		2.30	.54	.76	.05	1.00
038	392142	755318	10/16/1973	910	8.27	2.32	-00.32	-00.66	.46
040	392622	760130	10/15/1973		7.63	2.57	.29	.20	1.31
041	391330	763146	10/10/1973	1220	8.47	2.13	-00.31	-00.81	.62
041X	392640	760250	10/16/1973		4.46	1.50	.32	1.60	1.40
042	392940	760515	10/16/1973		2.41	.58	-00.62	2.70	3.42
043	393245	760450	10/16/1973		1.33	.53	.78	.84	.14
044	392912	760000	10/15/1973		1.92	.98	.02	.47	.58
045	392906	765636	10/15/1973		4.11	.32	.65	6.28	8.15
046	393940	755336	10/15/1973		7.13	3.34	.08	-00.02	.20
047	393152	755042	10/15/1973		2.31	.52	.77	.09	.92
048	393320	755230	10/15/1973	1240	7.79	2.67	.23	.08	.29
049	392833	755321	10/15/1973	1440	7.93	2.61	.03	-00.11	.26
050	393340	755925	10/15/1973	1715	7.68	2.55	.22	.13	.30
051	390810	761922	10/17/1973	1300	8.29	2.32	-00.17	-00.55	.49
052	390305	761514	10/17/1973	1020	8.40	2.24	-00.52	-00.80	.40
053	390048	761538	10/17/1973	1035	8.40	2.28	-00.70	-01.06	.45

STA TION C402	LATI TUDE C414	LONGI TUDE C415	DATE MM DD YY C403	SAMPL DEPTH M C416	MEAN MICRN C417	SIGMA MICRN C418	MODE CLASS C419	CLASS DIAMTR C420	COARSE MIDPT C421	PERCT ORGANC C422
**										
01A	393255	760447	06/13/1974	.1	1.635	2.482	1	21.8	40.6837	
01A	393255	760447	09/20/1974	.1	1.430	1.658	3	21.1	21.1908	32.7
01A	393255	760447	12/13/1973	.1	1.342	.808	3	20.5	6.7712	
01A	393255	760447	03/21/1974	.1	1.484	1.993	1	24.4	40.6837	
01A	393255	760447	03/21/1974	6.1	1.439	1.300	2	18.8	24.1436	
01A	393255	760447	12/13/1973	6.1	1.349	.917	3	19.9	13.4175	
01A	393255	760447	09/13/1974	6.1	1.524	1.387	1	18.8	24.1436	23.0
01A	393255	760447	06/13/1974	6.1	1.427	1.141	1	21.5	10.3600	
01A	393255	760447	09/20/1974	12.2	1.493	1.222	1	20.6	13.4175	13.4
01A	393255	760447	12/13/1973	12.2	1.399	1.131	3	22.9	21.1905	
01A	393255	760447	06/13/1974	12.2	1.933	1.530	4	14.4	13.4400	
01A	393255	760447	03/21/1974	12.2	1.404	1.176	1	22.1	14.3280	
02B	392635	760200	09/20/1974	.1	1.816	1.974	1	15.9	27.5078	22.9
02B	392635	760200	03/20/1974	.1	1.210	.895	1	30.5	19.8528	
02B	392635	760200	06/13/1974	.1	1.908	1.731	1	14.0	12.8400	
02B	392635	760200	12/14/1973	.1	1.445	.791	3	18.9	7.9650	
02B	392635	760200	12/14/1973	2.3	1.386	.841	3	19.7	7.9650	
02B	302635	760200	06/13/1974	2.3	1.588	1.210	3	17.9	10.3600	
02B	392635	760200	03/20/1974	2.3	1.338	.958	1	29.7	7.4625	
02B	392635	760200	09/20/1974	2.3	1.640	1.657	1	25.9	13.3233	21.7
02B	392635	760200	12/14/1973	4.6	1.510	.950	3	16.6	11.0350	
02B	392635	760200	06/13/1974	4.6	1.600	1.430	1	19.5	12.9937	
02B	392635	760200	03/20/1974	4.6	1.329	1.153	1	27.5	10.4860	
02B	392635	760200	09/20/1974	4.6	1.848	2.115	1	20.1	25.7708	19.5
03B	392302	760530	06/13/1974	.1	1.556	1.361	1	17.3	14.8108	
03B	392302	760530	03/20/1974	.1	1.600	1.368	1	20.0	12.1737	
03B	392302	760530	12/14/1973	.1	1.313	1.125	2	24.1	27.5080	
03B	392302	760530	09/20/1974	.1	1.433	1.274	1	26.0	12.1350	23.5
03B	392302	760530	12/14/1973	5.4	1.311	.909	2	22.1	8.6240	
03B	392302	760530	03/20/1974	5.4	1.547	1.468	1	22.9	19.2260	
03B	392302	760530	09/20/1974	5.4	1.563	1.369	1	23.5	12.9200	14.9
03B	392302	760530	06/13/1974	5.4	1.526	1.142	1	18.7	11.7775	
03B	392302	760530	06/13/1974	10.7	1.570	1.299	1	19.8	12.5975	
03B	392302	760530	12/14/1973	10.7	1.347	.908	2	20.9	8.2340	
03B	392302	760530	03/20/1974	10.7	1.337	1.225	1	30.6	12.5700	
03B	392302	760530	09/20/1974	10.7	1.832	1.504	1	16.4	13.4175	17.6
04B	392052	761022	03/20/1975	.1	1.425	1.368	1	25.6	16.3245	
04B	392052	761022	12/14/1973	.1	1.600	1.186	2	16.5	17.4248	
04B	392052	761022	06/13/1974	.1	1.445	1.293	1	26.7	12.1737	
04B	392052	761022	09/20/1974	.1	1.661	1.353	1	16.0	15.3262	
04B	392052	761022	06/13/1974	5.8	1.576	1.275	1	21.2	11.7775	
04B	392052	761022	09/13/1974	5.8	1.536	1.536	2	17.6	12.3242	
04B	392052	761022	12/14/1973	5.8	1.390	1.129	2	21.4	15.2937	
04B	392052	761022	03/20/1975	5.8	1.218	.876	1	27.9	8.2337	
04B	392052	761022	09/20/1974	11.6	1.756	1.790	1	18.8	35.7080	
04B	392052	761022	03/20/1975	11.6	1.354	1.420	1	35.1	21.9049	
04B	392052	761022	12/14/1973	11.6	1.440	.743	3	20.5	5.8808	
04B	392052	761022	06/13/1974	11.6	1.552	1.349	1	25.4	12.5975	
05A	391637	761522	03/21/1974	.1	1.332	1.048	1	27.6	11.7775	
05A	391637	761522	06/13/1974	.1	1.354	.958	1	22.7	7.9650	

STA TION C402	LATI TUDE C414	LONGI TUDE C415	DATE MM DD YY C403	SAMPL DEPTH M C416	MEAN MICRN C417	SIGMA MICRN C418	MODE CLASS C419	CLASS DIAMTR C420	COARSE MIDPT C421	PERCT ORGANC C422
**										
05A	391637	761522	03/21/1974	6.7	1.306	1.604	1	25.7	16.3245	
05A	391637	761522	06/13/1974	6.7	1.991	1.960	5	13.7	22.6191	
05A	391637	761522	06/13/1974	13.4	1.688	1.559	1	20.6	12.5883	
05A	391637	761522	03/21/1974	13.4	1.317	1.112	1	30.7	11.9756	
05B	391614	761403	03/21/1974	.1	1.110	1.721	1	37.1	49.4768	
05B	391614	761403	09/13/1974	.1	1.360	.981	1	22.4	11.7775	
05B	391614	761403	12/14/1973	.1	11.697	11.195	3	18.2	15.2937	
05B	391614	761403	06/13/1974	.1	1.361	1.414	1	24.0	18.5992	
05B	391614	761403	09/20/1974	4.1	1.605	1.228	1	19.8	11.7775	
05B	391614	761403	03/20/1974	4.1	1.256	1.083	1	33.3	11.7775	
05B	391614	761403	06/13/1974	4.1						
05B	391614	761403	12/14/1973	4.1	1.433	.840	2	18.4	6.9925	
05B	391614	761403	03/20/1974	8.2	1.519	1.668	1	30.1	24.1436	
05B	391614	761403	06/13/1974	8.2	1.667	1.582	1	16.7	12.7673	
05B	391614	761403	12/14/1973	8.2	1.543	.969	3	15.2	7.9650	
05B	391614	761403	09/20/1974	8.2	1.998	2.040	1	17.6	25.7708	
06C	391247	761507	03/20/1974	.1	1.391	1.048	1	20.7		
06C	391247	761507	12/14/1973	.1	1.493	1.028	2	17.0	8.2337	
06C	391247	761507	09/20/1974	.1	1.491	1.559	1	21.0	24.1436	
06C	391247	761507	06/13/1974	.1	1.583	1.496	4	17.9	22.6191	
06C	391247	761507	12/14/1973	7.9	1.303	.856	1	21.1	8.3350	
06C	391247	761507	03/20/1974	7.9	1.587	1.236	1	15.2		
06C	391247	761507	09/20/1974	7.9	1.725	1.521	1	16.3	12.1737	
06C	391247	761507	06/13/1974	7.9	2.210	1.892	4	17.5	38.1148	
06C	391247	761507	12/14/1973	13.7	1.532	1.028	3	15.3	17.4248	
06C	391247	761507	09/13/1974	13.7	2.663	2.916	1	13.9	31.3409	
06C	391247	761507	06/13/1974	13.7	2.504	1.760	6	16.8	17.4248	
06C	391247	761507	03/20/1974	13.7	1.293	1.167	1	30.8		
07A	391528	763423	03/21/1974	.1	1.412	1.036	1	22.8	12.5700	
07A	391528	763423	03/21/1974	5.0	1.261	.950	1	30.2	14.3280	
07A	391528	763423	03/21/1974	10.1	1.357	1.190	1	28.7	24.1436	
08B	390848	762230	12/14/1973	.1	1.328	.911	1	23.2	12.5700	
08B	390848	762230	12/14/1973	2.6	1.503	1.118	1	21.6	8.6933	
08B	390848	762230	12/14/1973	5.2	1.734	1.513	1	24.5	13.4175	
08C	390847	761902	12/12/1973	.1	1.779	1.236	6	16.6	24.1436	
08C	390847	761902	09/18/1974	.1	1.345	1.152	1	28.4	12.5975	45.6
08C	390847	761902	03/20/1974	.1	1.262	.876	1	29.5	10.3375	
08C	390847	761902	06/13/1974	.1	2.061	1.751	4	15.8	29.3618	
08C	390847	761902	03/20/1974	6.4	1.464	1.083	1	21.1	12.5700	
08C	390847	761902	09/18/1974	6.4	2.025	1.949	1	16.2	21.1908	14.2
08C	390847	761902	06/13/1974	6.4	1.372	1.001	1	22.4	13.4175	
08C	390847	761902	12/12/1973	6.4	1.610	1.146	1	16.9	10.1350	
08C	390847	761902	06/13/1974	12.8	1.754	1.318	5	14.3	12.8708	
08C	390847	761902	03/20/1974	12.8	1.533	1.440	1	23.0	19.8528	
08C	390847	761902	12/12/1973	12.8	2.137	1.847	1	14.8	24.1436	
08C	390847	761902	09/18/1974	12.8	1.716	1.610	1	20.6	17.4248	13.1
09A	390411	761605	12/14/1973	.1	1.613	1.234	1	19.5	12.1737	
09A	390411	761605	03/21/1974	.1	1.365	1.096	1	25.5	10.3375	
09A	390411	761605	06/13/1974	.1	1.457	1.908	1	26.8	38.1148	
09A	390411	761605	09/18/1974	.1	1.354	1.269	1	24.7	24.1436	71.8

STA TION C402	LATI TUDE C414	LONGI TUDE C415	DATE MM DD YY C403	SAMPL DEPTH M C416	MEAN MICRN C417	SIGMA MICRN C418	MODE CLASS C419	CLASS DIAMTR C420	COARSE MIDPT C421	PERCT ORGANC C422
**										
09A	390411	761605	06/13/1974	4.0	1.723	2.968	2	19.3	44.8892	
09A	390411	761605	03/21/1974	4.0	1.695	.966	4	20.5	13.4175	
09A	390411	761605	09/13/1974	4.0	1.268	1.062	1	28.3	12.9937	
09A	390411	761605	12/14/1973	4.0	1.937	1.346	1	11.3	16.3245	
09A	390411	761605	06/13/1974	7.9	1.243	1.178	1	33.2	25.7708	
09A	390411	761605	03/21/1974	7.9	1.845	1.518	5	17.1	27.5078	
09A	390411	761605	09/18/1974	7.9	1.559	1.322	1	20.7	19.8528	
09A	390411	761605	12/14/1973	7.9	1.975	1.514	3	13.3	13.4175	
10B	390227	762136	06/13/1974	.1	1.153	.941	1	39.0	18.5992	
10B	390227	762136	09/18/1974	.1	1.445	1.181	1	24.7	19.8528	30.7
10B	390227	762136	12/13/1973	.1	1.793	1.706	1	16.9	22.6672	
10B	390227	762136	03/20/1974	.1	1.291	.951	1	26.5	10.3375	
10B	390227	762136	06/13/1974	6.0	1.476	1.163	1	24.7	10.0112	
10B	390227	762136	09/18/1974	6.0	1.484	1.210	1	21.6	12.5700	15.9
10B	390227	762136	12/13/1973	6.0	1.849	1.475	1	17.7	11.7775	
10B	390227	762136	03/20/1974	6.0	1.425	1.057	1	20.2	9.6850	
10B	390227	762136	09/13/1974	11.9	1.639	1.711	1	22.3	15.3197	
10B	390227	762136	03/20/1974	11.9	1.709	1.502	1	17.0	18.5992	
10B	390227	762136	12/13/1973	11.9	1.970	1.588	1	20.0	13.4175	
10B	390227	762136	06/13/1974	11.9	1.172	.911	1	33.9	11.7775	
11A	385810	762458	03/20/1974	.1	1.416	1.001	1	25.6	8.5200	
11A	385810	762458	06/13/1974	.1	1.416	1.121	1	22.5	10.1744	
11A	385810	762458	03/20/1974	2.8	1.318	.993	1	27.1	10.3375	
11A	385810	762458	06/13/1974	2.8	1.348	1.092	1	21.6	14.3280	
11A	385810	762458	03/20/1974	5.5	1.380	1.181	1	26.6	13.4175	
11A	385810	762458	06/13/1974	5.5	1.225	.874	1	26.9	13.4175	
11B	385810	762348	09/18/1974	.1	1.366	1.517	1	29.7	31.3409	
11B	385756	762348	03/20/1974	.1	1.232	.949	1	30.2	11.7775	
11B	385756	762348	12/12/1973	.1	1.764	1.264	1	13.7	11.7775	
11B	385756	762348	12/12/1973	7.0	1.514	1.271	1	24.3	10.2437	
11B			03/20/1974	7.0	1.278	.947	1	24.1	7.9650	
11B	385810	762348	09/18/1974	7.0	1.330	1.010	1	25.2	11.7775	
11B	385756	762348	12/12/1973	14.0	2.000	1.867	1	14.9	19.8528	
11B	385810	762348	09/18/1974	14.0	1.453	1.022	1	19.3	12.5700	
11B			03/20/1974	14.0	1.499	1.282	1	25.5	16.3245	

DITTO WH SAME:

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
1388	04A	BENTH WET PPM	09/20/1974				.0810	.0000	.0510	.0097	.0200
1086	05C	BENTH WET PPM	05/03/1974	1335			.0090	.0000	.0000	.0090	.0000
1171	05C	BENTH WET PPM	05/03/1974				.3500	.0000	.0230	.1200	.2100
1380	05C	BENTH WET PPM	08/02/1974				.1200	.0000	.0270	.0069	.0820
1077	06A	BENTH WET PPM	03/22/1974	1125			.0310	.0000	.0000	.0310	.0000
1084	06A	BENTH WET PPM	05/03/1974	1155			.0870	.0000	.0000	.0870	.0000
1378	06A	BENTH WET PPM	08/02/1974				.0890	.0000	.0230	.0300	.0360
1385	06A	BENTH WET PPM	09/20/1974				.0580	.0000	.0000	.0210	.0370
1079	06B	BENTH WET PPM	03/22/1974	1145			.0510	.0000	.0000	.0510	.0000
1080	06C	BENTH WET PPM	03/22/1974	1200			.0310	.0000	.0000	.0310	.0000
1085	06C	BENTH WET PPM	05/03/1974	1255			.0020	.0000	.0000	.0020	.0000
1379	06C	BENTH WET PPM	08/02/1974				.0450	.0000	.0059	.0130	.0260
1386	06C	BENTH WET PPM	09/20/1974				.0930	.0000	.0000	.0320	.0610
1081	08A	BENTH WET PPM	03/22/1974				.0940	.0000	.0000	.0940	.0000
1369	08A	BENTH WET PPM	03/22/1974	1200			.0460	.0000	.0000	.0460	.0000
1376	08A	BENTH WET PPM	08/02/1974				.0740	.0000	.0240	.0150	.0350
1377	08A	BENTH WET PPM	08/26/1974				.1500	.0000	.0650	.0350	.0460
1384	08A	BENTH WET PPM	09/20/1974				.0084	.0000	.0028	.0020	.0036
1187	08B	BENTH WET PPM	01/25/1974	1740			.0210	.0000	.0000	.0210	.0000
1519	08B	BENTH WET PPM	03/20/1974				.0430	.0000	.0000	.0200	.0230
1189	10A	BENTH WET PPM	01/25/1974	1635			.0310	.0000	.0000	.0310	.0000
1367	10A	BENTH WET PPM	03/22/1974	935			.0560	.0250	.0000	.0310	.0004
1365	10A	BENTH WET PPM	03/22/1974	930			1.2000	.0000	.0000	.6100	.5900
1372	10A	BENTH WET PPM	05/03/1974				.0640	.0000	.0000	.0430	.0210
1381	10A	BENTH WET PPM	08/02/1974	925			.0290	.0110	.0000	.0180	.0000
1374	10A	BENTH WET PPM	08/02/1974	910			.0150	.0000	.0000	.0150	.0000
1382	10A	BENTH WET PPM	09/20/1974				.0290	.0000	.0000	.0210	.0090
1141	11A	BENTH WET PPM	03/20/1974				.0000	.0000	.0000	.0000	.0000
728	001	BOTM SED PPM	10/10/1973				.3600	.0000	.0000	.2900	.0700
729	002	BOTM SED PPM	10/10/1973				.5500	.0000	.0000	.4300	.1200
730	003	BOTM SED PPM	10/10/1973				1.2000	1.1000	.0000	.0770	.0000
731	004	BOTM SED PPM	10/10/1973				.1100	.0000	.0600	.0400	.0100
732	005	BOTM SED PPM	10/10/1973				.9300	.0000	.0000	.5600	.3700
733	006	BOTM SED PPM	10/10/1973				3.7000	.0000	.0000	3.4000	.2700
734	007	BOTM SED PPM	10/10/1973				.8400	.0000	.6700	.1700	.0000
735	008	BOTM SED PPM	10/10/1973				.1100	.0590	.0000	.0360	.0100
736	009	BOTM SED PPM	10/10/1973				.7200	.0000	.5100	.2000	.0100
996	01A	BOTM SED PPM	03/21/1974				.0110	.0054	.0000	.0035	.0017
1303	01A	BOTM SED PPM	07/10/1974				.0120	.0068	.0000	.0018	.0030
1426	01A	BOTM SED PPM	10/25/1974				.0560	.0000	.0250	.0220	.0094
738	011	BOTM SED PPM	10/10/1973				.0220	.0000	.0000	.0220	.0000
739	012	BOTM SED PPM	10/10/1973				.0980	.0000	.0000	.0980	.0000
741	014	BOTM SED PPM	10/10/1973				.0600	.0000	.0160	.0440	.0000
746	018	BOTM SED PPM	10/12/1973				.1700	.0000	.0000	.1500	.0160
747	019	BOTM SED PPM	10/12/1973				.2200	.0000	.1300	.0760	.0170
748	020	BOTM SED PPM	10/12/1973				.1600	.0000	.0000	.1400	.0240
749	021	BOTM SED PPM	10/12/1973				.2100	.0000	.1500	.0550	.0000
750	022	BOTM SED PPM	10/12/1973				1.3000	.0000	.8600	.3900	.0000
751	023	BOTM SED PPM	10/16/1973				.0850	.0000	.0700	.0150	.0000
752	024	BOTM SED PPM	10/12/1973				.1700	.0000	.0000	.1700	.0000

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
753	025	BOTM SED PPM	10/16/1973				.1300	.0000	.0000	.1300	.0000
755	027	BOTM SED PPM	10/16/1973				.0650	.0000	.0000	.0650	.0000
756	028	BOTM SED PPM	10/16/1973				.2000	.0000	.0930	.1100	.0000
760	032	BOTM SED PPM	10/16/1973				.0870	.0000	.0000	.0870	.0000
761	033	BOTM SED PPM	10/16/1973				.1900	.0000	.0950	.0950	.0000
762	034	BOTM SED PPM	10/16/1973				.1900	.1500	.0000	.0430	.0000
763	035	BOTM SED PPM	10/16/1973				.1900	.0500	.0000	.1400	.0000
764	036	BOTM SED PPM	10/16/1973				.0350	.0000	.0000	.0350	.0000
765	037	BOTM SED PPM	10/16/1973				.0000	.0000	.0000	.0000	.0000
766	038	BOTM SED PPM	10/16/1973				.0360	.0000	.0000	.0360	.0000
768	040	BOTM SED PPM	10/16/1973				.0460	.0000	.0000	.0460	.0000
769	041	BOTM SED PPM	10/16/1973				.1700	.1200	.0000	.0450	.0000
771	042	BOTM SED PPM	10/16/1973				.0180	.0000	.0000	.0180	.0000
772	043	BOTM SED PPM	10/16/1973				.0000	.0000	.0000	.0000	.0000
774	045	BOTM SED PPM	10/15/1973				.1100	.0000	.0000	.1100	.0000
775	046	BOTM SED PPM	10/15/1973				.1500	.0000	.0490	.0860	.0160
777	048	BOTM SED PPM	10/15/1973				.0710	.0000	.0250	.0390	.0070
811	05A	BOTM SED PPM	12/13/1973				.0690	.0002	.0000	.0250	.0440
978	05A	BOTM SED PPM	03/21/1974				.0350	.0250	.0000	.0074	.0024
1302	05A	BOTM SED PPM	07/09/1974				.0260	.0140	.0000	.0100	.0015
1425	05A	BOTM SED PPM	10/25/1974				.0740	.0000	.0520	.0150	.0066
779	050	BOTM SED PPM	10/15/1973				.0240	.0000	.0130	.0110	.0000
1002	07A	BOTM SED PPM	03/19/1974				.0520	.0360	.0000	.0110	.0053
1298	07A	BOTM SED PPM	07/08/1974				.3000	.0000	.1200	.1200	.0590
1423	07B	BOTM SED PPM	10/25/1974				1.2000	.0000	.2900	.2000	.7000
810	10B	BOTM SED PPM	12/12/1973				.0360	.0000	.0000	.0120	.0240
999	10B	BOTM SED PPM	03/20/1974				.0530	.0270	.0000	.0140	.0120
1301	10B	BOTM SED PPM	07/09/1974				.0550	.0290	.0000	.0140	.0120
1424	10B	BOTM SED PPM	10/25/1974				.1000	.0000	.0520	.0330	.0150
809	11A	BOTM SED PPM	12/12/1973	1015			.0520	.0000	.0000	.0520	.0000
1300	11A	BOTM SED PPM	07/09/1974				.0930	.0000	.0570	.0220	.0140
1000	11C	BOTM SED PPM	03/20/1974				.3400	.0000	.1300	.1000	.1100
1075	0FS	GRWAT H20 PPT	05/03/1974	845			26.0000	.0000	.0000	26.0000	.0000
1255	0FS	GRWAT H20 PPT	07/17/1974	1030			1.0000	.0000	.0000	1.0000	.0000
1318	0FS	GRWAT H20 PPT	09/04/1974	830			7.8000	.0000	.0000	2.7000	5.1000
1421	0FS	GRWAT H20 PPT	10/16/1974	1030			1.7000	.0000	.0000	1.3000	.4200
1486	0FS	GRWAT H20 PPT	11/05/1974	1200			8.5000	.0000	.0000	8.5000	.0000
787	01A	PLANK H20 PPT	12/13/1973				.3600	.0000	.0000	.3600	.0000
881	01A	PLANK H20 PPT	01/24/1974				.0017	.0000	.0009	.0008	.0000
1173	01A	PLANK H20 PPT	03/21/1974				.1500	.0000	.0000	.1500	.0000
1185	01A	PLANK H20 PPT	05/03/1974				.0000	.0000	.0000	.0000	.0000
1304	01A	PLANK H20 PPT	06/13/1974				.0000	.0000	.0000	.0000	.0000
1254	01A	PLANK H20 PPT	07/10/1974				.0032	.0000	.0000	.0021	.0011
1327	01A	PLANK H20 PPT	09/18/1974				.0140	.0000	.0034	.0094	.0009
882	03B	PLANK H20 PPT	01/24/1974				.0110	.0000	.0000	.0110	.0000
1174	03B	PLANK H20 PPT	03/21/1974				.1600	.0000	.0000	.1600	.0000
1184	03B	PLANK H20 PPT	05/03/1974				.0160	.0000	.0079	.0062	.0016
1306	03B	PLANK H20 PPT	06/13/1974				.0021	.0000	.0005	.0013	.0003
1251	03B	PLANK H20 PPT	07/10/1974				.0021	.0000	.0000	.0021	.0000
1331	03B	PLANK H20 PPT	09/20/1974				.0070	.0000	.0049	.0017	.0004

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
786	05A	PLANK H20 PPT	12/13/1973				.1500	.0000	.0000	.1500	.0000
880	05A	PLANK H20 PPT	01/24/1974				.0120	.0000	.0061	.0054	.0000
1172	05A	PLANK H20 PPT	03/21/1974				.0091	.0000	.0000	.0042	.0049
1183	05A	PLANK H20 PPT	05/03/1974				.0005	.0000	.0000	.0005	.0000
1311	05A	PLANK H20 PPT	06/13/1974				.0001	.0000	.0000	.0001	.0000
1250	05A	PLANK H20 PPT	07/09/1974				.0038	.0000	.0000	.0022	.0016
1329	05A	PLANK H20 PPT	09/19/1974				.0008	.0000	.0000	.0008	.0000
883	05B	PLANK H20 PPT	01/24/1974				.0025	.0012	.0000	.0005	.0008
1175	05B	PLANK H20 PPT	03/21/1974				.0270	.0000	.0210	.0058	.0000
1186	05B	PLANK H20 PPT	05/03/1974				.0027	.0000	.0000	.0018	.0009
788	07A	PLANK H20 PPT	12/14/1973				1.3000	.0000	.4300	.8900	.0000
877	07A	PLANK H20 PPT	01/23/1974				.0120	.0000	.0000	.0120	.0000
1166	07A	PLANK H20 PPT	03/19/1974				.0660	.0000	.0470	.0004	.0100
1310	07A	PLANK H20 PPT	06/11/1974				.0028	.0000	.0000	.0019	.0009
1176	07B	PLANK H20 PPT	05/01/1974				.0010	.0000	.0045	.0054	.0000
1305	07B	PLANK H20 PPT	06/11/1974				.0056	.0030	.0000	.0023	.0003
1248	07B	PLANK H20 PPT	07/08/1974				.0000	.0000	.0000	.0000	.0000
1324	07B	PLANK H20 PPT	09/18/1974				.0022	.0000	.0000	.0022	.0000
816	08A	PLANK H20 PPT	12/14/1973				.0170	.0000	.0000	.0170	.0000
879	08B	PLANK H20 PPT	01/24/1974				.0180	.0000	.0078	.0100	.0000
1171	08B	PLANK H20 PPT	03/20/1974				.0740	.0000	.0078	.0800	.0059
1182	08B	PLANK H20 PPT	05/02/1974				.0001	.0000	.0000	.0001	.0000
1307	08B	PLANK H20 PPT	06/13/1974				.0021	.0000	.0005	.0012	.0004
884	08C	PLANK H20 PPT	01/24/1974				.0064	.0039	.0000	.0010	.0015
1170	08C	PLANK H20 PPT	03/20/1974				.0110	.0000	.0000	.0069	.0039
1181	08C	PLANK H20 PPT	05/02/1974				.0001	.0000	.0000	.0001	.0000
1308	08C	PLANK H20 PPT	06/12/1974				.0001	.0000	.0000	.0001	.0000
1249	08C	PLANK H20 PPT	07/09/1974				.0003	.0000	.0000	.0003	.0000
1330	08C	PLANK H20 PPT	09/19/1974				.0000	.0000	.0000	.0000	.0000
817	09A	PLANK H20 PPT	12/14/1973				.1000	.0000	.0000	.1000	.0000
820	09A	PLANK H20 PPT	01/17/1974				.0029	.0000	.0000	.0029	.0000
822	09B	PLANK H20 PPT	01/17/1974				.0400	.0000	.0000	.0400	.0000
821	09C	PLANK H20 PPT	01/17/1974				.0100	.0000	.0000	.0100	.0000
818	10B	PLANK H20 PPT	12/12/1973				.0320	.0000	.0000	.0320	.0000
878	10B	PLANK H20 PPT	01/23/1974				.0090	.0000	.0000	.0090	.0000
1169	10B	PLANK H20 PPT	03/20/1974				.0360	.0000	.0140	.0190	.0027
1180	10B	PLANK H20 PPT	05/02/1974				.0001	.0000	.0000	.0000	.0000
1312	10B	PLANK H20 PPT	06/12/1974				.0001	.0000	.0000	.0001	.0001
1245	10B	PLANK H20 PPT	07/09/1974				.0008	.0000	.0000	.0008	.0000
1332	10B	PLANK H20 PPT	09/19/1974				.0002	.0000	.0001	.0001	.0000
789	11A	PLANK H20 PPT	12/12/1973				.1500	.0000	.0000	.1500	.0000
875	11A	PLANK H20 PPT	01/23/1974				.0093	.0000	.0000	.0093	.0000
1167	11A	PLANK H20 PPT	03/20/1974				.0090	.0000	.0000	.0070	.0020
1179	11A	PLANK H20 PPT	05/02/1974				.0008	.0000	.0000	.0008	.0000
1246	11A	PLANK H20 PPT	07/09/1974				.0008	.0000	.0000	.0007	.0001
1325	11A	PLANK H20 PPT	09/19/1974				.0022	.0000	.0008	.0013	.0001
876	11C	PLANK H20 PPT	01/23/1974				.0001	.0000	.0000	.0001	.0000
1168	11C	PLANK H20 PPT	03/20/1974				.0250	.0000	.0000	.0140	.0110
1178	11C	PLANK H20 PPT	05/02/1974				.0001	.0000	.0000	.0001	.0000
1313	11C	PLANK H20 PPT	06/12/1974				.0000	.0000	.0000	.0000	.0000

SAMPL NUMBR C501	STAT TON C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
1253	11C	PLANK H20 PPT	07/09/1974				.0007	.0000	.0000	.0006	.0001
1326	11C	PLANK H20 PPT	09/19/1974				.0018	.0000	.0011	.0007	.0000
1177	11D	PLANK H20 PPT	05/01/1974				.0020	.0000	.0000	.0015	.0005
1309	11D	PLANK H20 PPT	06/11/1974				.0011	.0000	.0002	.0007	.0002
1247	11D	PLANK H20 PPT	07/08/1974				.0019	.0000	.0018	.0001	.0000
1252	11E	PLANK H20 PPT	07/09/1974				.0046	.0000	.0000	.0029	.0017
787	01A	PLANK WET PPM	12/13/1973				7.5000	.0000	.0000	7.5000	.0000
881	01A	PLANK WET PPM	01/24/1974				.0900	.0000	.0490	.0410	.0000
1173	01A	PLANK WET PPM	03/21/1974				5.6000	.0000	.0000	5.6000	.0000
1185	01A	PLANK WET PPM	05/03/1974				.0061	.0000	.0000	.0061	.0000
1304	01A	PLANK WET PPM	06/13/1974				.0000	.0000	.0000	.0000	.0000
1254	01A	PLANK WET PPM	07/10/1974				.2300	.0000	.0000	.1500	.0770
1327	01A	PLANK WET PPM	09/18/1974				.2900	.0000	.0730	.2000	.0180
882	03B	PLANK WET PPM	01/24/1974				.3200	.0000	.0000	.3200	.0000
1174	03B	PLANK WET PPM	03/21/1974				7.2000	.0000	.0000	7.2000	.0000
1184	03B	PLANK WET PPM	05/03/1974				.3700	.0000	.1800	.1500	.0370
1306	03B	PLANK WET PPM	06/13/1974				.2300	.0000	.0530	.1400	.0340
1251	03B	PLANK WET PPM	07/10/1974				2.1000	.0000	.0000	2.1000	.0000
1331	03B	PLANK WET PPM	09/20/1974				.0450	.0000	.0320	.0100	.0030
786	05A	PLANK WET PPM	12/13/1973				1.8000	.0000	.0000	1.8000	.0000
880	05A	PLANK WET PPM	01/24/1974				.9600	.0000	.5100	.4500	.0000
1172	05A	PLANK WET PPM	03/21/1974				.4100	.0000	.0000	.1900	.2200
1183	05A	PLANK WET PPM	05/03/1974				.0330	.0000	.0000	.0330	.0000
1311	05A	PLANK WET PPM	06/13/1974				.1200	.0000	.0000	.0780	.0400
1250	05A	PLANK WET PPM	07/09/1974				.0790	.0000	.0000	.0450	.0340
1329	05A	PLANK WET PPM	09/19/1974				.0450	.0000	.0000	.0450	.0000
883	05B	PLANK WET PPM	01/24/1974				.3400	.1600	.0000	.0700	.1100
1175	05B	PLANK WET PPM	03/21/1974				.0730	.0000	.0570	.0160	.0000
1186	05B	PLANK WET PPM	05/03/1974				.1200	.0000	.0000	.0830	.0410
788	07A	PLANK WET PPM	12/14/1973				1.2000	.0000	.3900	.8000	.0000
877	07A	PLANK WET PPM	01/23/1974				.0250	.0000	.0000	.0250	.0000
1166	07A	PLANK WET PPM	03/19/1974				.0810	.0000	.0570	.0120	.0120
1310	07A	PLANK WET PPM	06/11/1974				.0710	.0000	.0000	.0490	.0220
1176	07B	PLANK WET PPM	05/01/1974				.1700	.0000	.0780	.0940	.0000
1305	07B	PLANK WET PPM	06/11/1974				.4600	.2500	.0000	.1900	.0240
1248	07B	PLANK WET PPM	07/08/1974				.0000	.0000	.0000	.0000	.0000
1324	07B	PLANK WET PPM	09/18/1974				.1300	.0000	.0000	.1300	.0000
816	08A	PLANK WET PPM	12/14/1973				.2700	.0000	.0000	.2700	.0000
879	08B	PLANK WET PPM	01/24/1974				.4900	.0000	.2100	.2800	.0000
1171	08B	PLANK WET PPM	03/20/1974				.2500	.0000	.0210	.2100	.0160
1182	08B	PLANK WET PPM	05/02/1974				.0360	.0000	.0000	.0360	.0000
1307	08B	PLANK WET PPM	06/13/1974				.5200	.0000	.1100	.3000	.1100
884	08C	PLANK WET PPM	01/24/1974				.1900	.1200	.0000	.0300	.0440
1170	08C	PLANK WET PPM	03/20/1974				.0250	.0000	.0000	.0160	.0090
1181	08C	PLANK WET PPM	05/02/1974				.1700	.0000	.0000	.1700	.0000
1308	08C	PLANK WET PPM	06/12/1974				.0290	.0000	.0000	.0290	.0000
1249	08C	PLANK WET PPM	07/09/1974				.0620	.0000	.0000	.0620	.0000
1330	08C	PLANK WET PPM	09/19/1974				.0000	.0000	.0000	.0000	.0000
817	09A	PLANK WET PPM	12/14/1973				.9000	.0000	.0000	.9000	.0000
820	09A	PLANK WET PPM	01/17/1974				.0250	.0000	.0000	.0250	.0000

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
822	09B	PLANK WET PPM	01/17/1974				.0880	.0000	.0000	.0880	.0000
821	09C	PLANK WET PPM	01/17/1974				.0220	.0000	.0000	.0220	.0000
818	10B	PLANK WET PPM	12/12/1973				.3100	.0000	.0000	.3100	.0000
878	10B	PLANK WET PPM	01/23/1974				.1600	.0000	.0000	.1600	.0000
1169	10B	PLANK WET PPM	03/20/1974				.1200	.0000	.0450	.0640	.0091
1180	10B	PLANK WET PPM	05/02/1974				.0440	.0000	.0220	.0220	.0000
1312	10B	PLANK WET PPM	06/12/1974				.0071	.0000	.0000	.0045	.0026
1245	10B	PLANK WET PPM	07/09/1974				.0810	.0000	.0000	.0810	.0000
1332	10B	PLANK WET PPM	09/19/1974				.0159	.0000	.0092	.0057	.0010
789	11A	PLANK WET PPM	12/12/1973				.1100	.0000	.0000	.1100	.0000
875	11A	PLANK WET PPM	01/23/1974				.0790	.0000	.0000	.0790	.0000
1167	11A	PLANK WET PPM	03/20/1974				.0360	.0000	.0000	.0280	.0079
1179	11A	PLANK WET PPM	05/02/1974				.1100	.0000	.0000	.1100	.0000
1246	11A	PLANK WET PPM	07/09/1974				.0230	.0000	.0000	.0190	.0038
1325	11A	PLANK WET PPM	09/19/1974				.0430	.0000	.0160	.0250	.0024
876	11C	PLANK WET PPM	01/23/1974				.0006	.0000	.0000	.0006	.0000
1168	11C	PLANK WET PPM	03/20/1974				.0260	.0000	.0000	.0150	.0110
1178	11C	PLANK WET PPM	05/02/1974				.0110	.0000	.0000	.0110	.0000
1313	11C	PLANK WET PPM	06/12/1974				.0180	.0000	.0000	.0180	.0000
1253	11C	PLANK WET PPM	07/09/1974				.0140	.0000	.0000	.0120	.0018
1326	11C	PLANK WET PPM	09/19/1974				.0380	.0000	.0230	.0150	.0004
1177	11D	PLANK WET PPM	05/01/1974				.0220	.0000	.0000	.0170	.0054
1309	11D	PLANK WET PPM	06/11/1974				.2700	.0000	.0400	.1700	.0560
1247	11D	PLANK WET PPM	07/08/1974				.0140	.0000	.0130	.0005	.0000
1252	11E	PLANK WET PPM	07/09/1974				.2500	.0000	.0000	.1600	.0910
784	01A	S SED DRY PPM	12/13/1973	1530	2.0	42.57	.7100	.0000	.0000	.7100	.0000
782	01A	S SED DRY PPM	12/13/1973	1445	8.0	42.70	1.3000	.0000	.0000	1.3000	.0000
992	01A	S SED DRY PPM	01/24/1974	1305	2.0	35.03	.7900	.0000	.0000	.6500	.1400
897	01A	S SED DRY PPM	03/21/1974	1157	.0	11.30	.1400	.0000	.0000	.1400	.0000
898	01A	S SED DRY PPM	03/21/1974	1145	13.0	14.86	.1300	.0000	.0000	.1300	.0000
1073	01A	S SED DRY PPM	05/03/1974	1107	.0	9.58	.7200	.0000	.0000	.7200	.0000
1072	01A	S SED DRY PPM	05/03/1974	1055	12.0	16.73	.6400	.0000	.3700	.0860	.1800
799	05A	S SED DRY PPM	12/13/1973	1045	10.0	24.87	.3500	.0000	.0000	.3000	.0530
989	05A	S SED DRY PPM	01/24/1974	936	2.0	9.53	.8300	.5000	.0000	.2600	.0650
988	05A	S SED DRY PPM	01/24/1974	932	6.0	19.86	.8800	.3900	.0000	.3800	.1100
981	05A	S SED DRY PPM	03/21/1974	753	2.0	27.93	.6200	.3200	.0000	.2300	.0720
0980	05A	S SED DRY PPM	03/21/1974	845	7.5	62.57	.9900	.0000	.8600	.0430	.0840
1074	05A	S SED DRY PPM	05/03/1974		.0		2.1000	.3500	.0000	.3800	1.4000
1161	05A	S SED DRY PPM	06/13/1974	751	2.0		.5500	.0000	.5100	.0000	.0430
1160	05A	S SED DRY PPM	06/13/1974	745	7.0		.6900	.6300	.0000	.0560	.0000
792	05A	S SED DRY PPM	12/13/1974	1045	2.0		.8000	.0000	.0000	.8000	.0000
790	07A	S SED DRY PPM	12/13/1973	1445	2.0	7.16	3.4000	.0000	2.3000	1.1000	.0000
783	07A	S SED DRY PPM	12/13/1973	1520	6.5	7.50	1.1000	.4500	.0000	.3600	.3200
863	07A	S SED DRY PPM	01/24/1974	1015	.0	11.14	2.2000	.0000	.0000	2.2000	.0000
853	07A	S SED DRY PPM	01/24/1974	1140	9.0	8.80	.8700	.0000	.0000	.3700	.5000
970	07A	S SED DRY PPM	03/21/1974	1310	.0	9.47	1.6000	1.3000	.0000	.2200	.0790
969	07A	S SED DRY PPM	03/21/1974	1300	9.0	8.30	1.4000	1.3000	.0000	.0980	.0360
1067	07A	S SED DRY PPM	05/02/1974	1410	.0	6.32	1.2000	.0000	.6300	.5400	.0000
1068	07A	S SED DRY PPM	05/02/1974	1404	6.0	5.13	3.8000	3.5000	.0000	.1200	.2200
1069	07A	S SED DRY PPM	05/02/1974	1400	10.0		.1300	.0000	.0000	.0630	.0710

SAMPL NUMBR C501	STAT TON C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
858	08R	S SED DRY PPM	01/24/1974	1415	.0	3.26	2.7000	.0000	.9500	.2900	1.5000
1064	08R	S SED DRY PPM	05/02/1974	1455	.0	12.17	.5100	.2100	.0000	.1900	.1100
1065	08B	S SED DRY PPM	05/02/1974	1515	2.5	11.95	.7800	.3200	.0000	.2900	.1700
1066	08R	S SED DRY PPM	05/02/1974	1530	5.0	26.97	.2800	.1900	.0000	.0570	.0350
806	10A	S SED DRY PPM	12/13/1973	955	2.0	5.90	.3800	.0000	.0000	.3800	.0000
862	10A	S SED DRY PPM	01/22/1974	1700	8.0	37.58	.3200	.1900	.0000	.1300	.0000
795	10B	S SED DRY PPM	12/12/1973	1235	2.0		1.9000	.0000	.0000	1.6000	.2800
796	10B	S SED DRY PPM	12/12/1973	1235	10.0	12.86	.8600	.0000	.0000	.8600	.0000
804	10R	S SED DRY PPM	12/13/1973	845	2.0	4.24	1.2000	.0000	.0000	1.2000	.0000
805	10B	S SED DRY PPM	12/13/1973	940	10.0	15.46	.0079	.0000	.0000	.0079	.0000
857	10R	S SED DRY PPM	01/23/1974	1635	.0	2.74	.8300	.4300	.0000	.2400	.1600
866	10R	S SED DRY PPM	01/23/1974	1725	10.0	29.96	.2300	.0000	.0000	.2300	.0000
960	10B	S SED DRY PPM	03/20/1974	940	.0	13.08	.2500	.0000	.0000	.1600	.0940
959	10R	S SED DRY PPM	03/20/1974	1340	12.0	56.20	.2900	.2000	.0000	.0650	.0240
1055	10B	S SED DRY PPM	05/02/1974	1005	.0	5.40	.1300	.0000	.0470	.0370	.0410
1056	10B	S SED DRY PPM	05/02/1974	959	6.0		.0640	.0000	.0580	.0064	.0000
1057	10B	S SED DRY PPM	05/02/1974	955	11.0	7.36	2.7000	.0000	1.3000	1.3000	.0820
1159	10B	S SED DRY PPM	06/12/1974	905	2.0		1.3000	.0000	.0000	1.3000	.0000
1158	10B	S SED DRY PPM	06/12/1974	855	11.0		.1100	.0000	.0760	.0380	.0000
1287	10B	S SED DRY PPM	07/31/1974	1340	.0	5.42	.6400	.0000	.2200	.2800	.1400
1286	10R	S SED DRY PPM	07/31/1974	1500	6.0	3.66	.3300	.0000	.0000	.1700	.1600
1285	10R	S SED DRY PPM	07/31/1974	1330	10.0	11.02	.3900	.0000	.0000	.3000	.0880
803	10C	S SED DRY PPM	12/12/1973	1545	2.0	6.98	1.2000	.0000	.3700	.8600	.0000
860	10C	S SED DRY PPM	01/23/1974	1510	.0	3.30	.9400	.0000	.4700	.4700	.0000
868	10C	S SED DRY PPM	01/23/1974	1550	6.0	5.50	.1600	.0000	.0000	.0280	.1300
780	11A	S SED DRY PPM	12/12/1973	955	2.0	6.26	.5900	.0000	.0000	.5900	.0000
794	11A	S SED DRY PPM	12/12/1973	1000	2.0	6.34	3.5000	.0000	.5900	2.9000	.0000
791	11A	S SED DRY PPM	12/12/1973	1100	6.0	6.44	1.3000	.7200	.0000	.4700	.1100
871	11A	S SED DRY PPM	01/23/1974	845	.0	2.45	.1500	.0000	.1000	.0530	.0000
861	11A	S SED DRY PPM	01/23/1974	920	5.0	7.98	.0750	.0000	.0520	.0097	.0130
952	11A	S SED DRY PPM	03/20/1974	853	.0	8.96	.8700	.0000	.7600	.0920	.0150
951	11A	S SED DRY PPM	03/20/1974	847	6.0	9.34	.8200	.0220	.0000	.8000	.0000
1045	11A	S SED DRY PPM	05/01/1974	805	8.0		.1300	.0000	.0770	.0480	.0000
1275	11A	S SED DRY PPM	07/31/1974	719	.4	6.42	.5500	.0000	.0000	.5500	.0000
1274	11A	S SED DRY PPM	07/31/1974	715	4.4	7.38	.2300	.0000	.0000	.1900	.0400
956	11C	S SED DRY PPM	03/20/1974	1150	.0	7.79	2.4000	1.5000	.0000	.5100	.3700
955	11C	S SED DRY PPM	03/20/1974	1032	28.0		.2600	.0000	.0540	.1500	.0590
1049	11C	S SED DRY PPM	05/01/1974	1402	.0	9.53	.5300	.3400	.0000	.1300	.0560
1050	11C	S SED DRY PPM	05/01/1974	1440	10.5	3.00	1.7000	1.2000	.0000	.3000	.1500
1051	11C	S SED DRY PPM	05/01/1974	1525	21.0	10.57	1.1000	.6900	.0000	.3000	.1000
1281	11C	S SED DRY PPM	07/31/1974	1205	2.4	3.22	.2200	.0000	.0000	.2200	.0000
784	01A	S SED H20 PPT	12/13/1973	1530	2.0	42.57	30.0000	.0000	.0000	30.0000	.0000
782	01A	S SED H20 PPT	12/13/1973	1445	8.0	42.70	57.0000	.0000	.0000	57.0000	.0000
992	01A	S SED H20 PPT	01/24/1974	1305	2.0	35.03	28.0000	.0000	.0000	23.0000	4.8000
897	01A	S SED H20 PPT	03/21/1974	1157	.0	11.30	1.6000	.0000	.0000	1.6000	.0000
898	01A	S SED H20 PPT	03/21/1974	1145	13.0	14.86	2.0000	.0000	.0000	2.0000	.0000
1073	01A	S SED H20 PPT	05/03/1974	1107	.0	9.58	5.8000	.0000	.0000	5.8000	.0000
1072	01A	S SED H20 PPT	05/03/1974	1055	12.0	16.73	11.0000	.0000	6.2000	1.4000	3.0000
799	05A	S SED H20 PPT	12/13/1973	1045	10.0	24.87	8.7000	.0000	.0000	7.4000	1.3000
989	05A	S SED H20 PPT	01/24/1974	936	2.0	9.53	7.8000	4.7000	.0000	2.5000	.6200

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
988	05A	S SED H20 PPT	01/24/1974	932	6.0	19.86	17.0000	7.7000	.0000	7.5000	2.2000
981	05A	S SED H20 PPT	03/21/1974	753	2.0	27.93	18.0000	9.0000	.0000	6.6000	1.9000
0980	05A	S SED H20 PPT	03/21/1974	845	7.5	62.57	61.0000	.0000	53.0000	2.7000	5.2000
1074	05A	S SED H20 PPT	05/03/1974		.0		43.0000	7.2000	.0000	7.8000	28.0000
1161	05A	S SED H20 PPT	06/13/1974	751	2.0		8.5000	.0000	7.8000	.0000	.6700
1160	05A	S SED H20 PPT	06/13/1974	745	7.0		27.0000	25.0000	.0000	2.2000	.0000
792	05A	S SED H20 PPT	12/13/1974	1045	2.0		17.0000	.0000	.0000	17.0000	.0000
790	07A	S SED H20 PPT	12/13/1973	1445	2.0	7.16	25.0000	.0000	17.0000	8.0000	.0000
783	07A	S SED H20 PPT	12/13/1973	1520	6.5	7.50	8.5000	3.4000	.0000	2.7000	2.4000
863	07A	S SED H20 PPT	01/24/1974	1015	.0	11.14	25.0000	.0000	.0000	25.0000	.0000
853	07A	S SED H20 PPT	01/24/1974	1140	9.0	8.80	7.7000	.0000	.0000	3.3000	4.4000
970	07A	S SED H20 PPT	03/21/1974	1310	.0	9.47	16.0000	13.0000	.0000	2.1000	.7500
969	07A	S SED H20 PPT	03/21/1974	1300	9.0	8.30	12.0000	11.0000	.0000	.8100	.3000
1067	07A	S SED H20 PPT	05/02/1974	1410	.0	6.32	7.4000	.0000	4.0000	3.4000	.0000
1068	07A	S SED H20 PPT	05/02/1974	1404	6.0	5.13	20.0000	18.0000	.0000	.6300	1.1000
1069	07A	S SED H20 PPT	05/02/1974	1400	10.0		1.1000	.0000	.0000	.5100	.5700
982	07B	S SED H20 PPT	03/19/1974	950	2.0		34.0000	23.0000	.0000	6.1000	4.6000
858	08B	S SED H20 PPT	01/24/1974	1415	.0	3.26	8.8000	.0000	3.1000	.9500	4.7000
965	08B	S SED H20 PPT	03/21/1974	1110	4.0		15.0000	12.0000	.0000	2.2000	1.0000
1064	08B	S SED H20 PPT	05/02/1974	1455	.0	12.17	6.3000	2.6000	.0000	2.4000	1.3000
1065	08B	S SED H20 PPT	05/02/1974	1515	2.5	11.95	9.3000	3.8000	.0000	3.5000	2.0000
1066	08B	S SED H20 PPT	05/02/1974	1530	5.0	26.97	7.5000	5.1000	.0000	1.5000	.9300
806	10A	S SED H20 PPT	12/13/1973	955	2.0	5.90	2.3000	.0000	.0000	2.3000	.0000
862	10A	S SED H20 PPT	01/22/1974	1700	8.0	37.58	12.0000	7.2000	.0000	5.1000	.0000
795	10B	S SED H20 PPT	12/12/1973	1235	2.0		13.0000	.0000	.0000	11.0000	1.9000
796	10B	S SED H20 PPT	12/12/1973	1235	10.0	12.86	11.0000	.0000	.0000	11.0000	.0000
804	10B	S SED H20 PPT	12/13/1973	845	2.0	4.24	5.1000	.0000	.0000	5.1000	.0000
805	10B	S SED H20 PPT	12/13/1973	940	10.0	15.46	1.2000	.0000	.0000	1.2000	.0000
857	10B	S SED H20 PPT	01/23/1974	1635	.0	2.74	2.3000	1.2000	.0000	.6600	.4300
866	10B	S SED H20 PPT	01/23/1974	1725	10.0	29.96	6.8000	.0000	.0000	6.8000	.0000
960	10B	S SED H20 PPT	03/20/1974	940	.0	13.08	3.9000	.0000	.0000	2.7000	1.2000
959	10B	S SED H20 PPT	03/20/1974	1340	12.0	56.20	16.0000	11.0000	.0000	3.6000	1.3000
1055	10B	S SED H20 PPT	05/02/1974	1005	.0	5.40	.6800	.0000	.2500	.2000	.2200
1056	10B	S SED H20 PPT	05/02/1974	959	6.0		.3400	.0000	.3100	.0340	.0000
1057	10B	S SED H20 PPT	05/02/1974	955	11.0	7.36	57.0000	.0000	27.0000	28.0000	1.8000
1159	10B	S SED H20 PPT	06/12/1974	905	2.0		2.2000	.0000	.0000	2.2000	.0000
1158	10B	S SED H20 PPT	06/17/1974	855	11.0		.1300	.0000	.0880	.0450	.0000
1287	10B	S SED H20 PPT	07/31/1974	1340	.0	5.42	3.5000	.0000	1.2000	1.5000	.7600
1286	10B	S SED H20 PPT	07/31/1974	1500	6.0	3.66	1.2000	.0000	.0000	.6100	.5700
1285	10B	S SED H20 PPT	07/31/1974	1330	10.0	11.02	4.3000	.0000	.0000	3.3000	.9600
803	10C	S SED H20 PPT	12/12/1973	1545	2.0	6.98	8.6000	.0000	2.6000	6.0000	.0000
860	10C	S SED H20 PPT	01/23/1974	1510	.0	3.30	3.0000	.0000	1.5000	1.5000	.0000
868	10C	S SED H20 PPT	01/23/1974	1550	6.0	5.50	1.1000	.0000	.0000	.1900	.8600
794	11A	S SED H20 PPT	12/12/1973	1000	2.0	6.34	18.0000	.0000	3.2000	15.0000	.0000
780	11A	S SED H20 PPT	12/12/1973	955	2.0	6.26	3.8000	.0000	.0000	3.8000	.0000
791	11A	S SED H20 PPT	12/12/1973	1100	6.0	6.44	8.4000	4.7000	.0000	3.0000	.6900
871	11A	S SED H20 PPT	01/23/1974	845	.0	2.45	.3800	.0000	.2500	.1300	.0000
861	11A	S SED H20 PPT	01/23/1974	920	5.0	7.98	.5900	.0000	.4100	.0780	.1000
952	11A	S SED H20 PPT	03/20/1974	853	.0	8.96	7.8000	.0000	6.8000	.8300	.1400
951	11A	S SED H20 PPT	03/20/1974	847	6.0	9.34	7.7000	.2000	.0000	7.5000	.0000

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	SUS SED MG L C520	TOTAL PCB C508	1242 AROCLOR C509	1248 AROCLOR C510	1254 AROCLOR C511	1262 AROCLOR C512
**											
1045	11A	S SED H20 PPT	05/01/1974	805	8.0		1.8000	.0000	1.1000	.6800	.0000
1275	11A	S SED H20 PPT	07/31/1974	719	.4	6.42	3.6000	.0000	.0000	3.6000	.0000
1274	11A	S SED H20 PPT	07/31/1974	715	4.4	7.38	1.7000	.0000	.0000	1.4000	.2900
956	11C	S SED H20 PPT	03/20/1974	1150	.0	7.79	22.0000	14.0000	.0000	4.7000	3.4000
955	11C	S SED H20 PPT	03/20/1974	1032	28.0		4.3000	.0000	.9000	2.4000	.9800
1049	11C	S SED H20 PPT	05/01/1974	1402	.0	9.53	5.0000	3.3000	.0000	1.2000	.5400
1050	11C	S SED H20 PPT	05/01/1974	1440	10.5	3.00	5.0000	3.7000	.0000	.8900	.4500
1051	11C	S SED H20 PPT	05/01/1974	1525	21.0	10.57	12.0000	7.3000	.0000	3.2000	1.1000
1281	11C	S SED H20 PPT	07/31/1974	1205	2.4	3.22	.7000	.0000	.0000	.7000	.0000
906B	0MP	SSEW H20 PPB	03/29/1974	830			.0017	.0012	.0000	.0004	.0002
907B	0MP	SSEW H20 PPB	03/29/1974	1830			.5800	.0000	.4100	.1700	.0000
1076B	0MP	SSEW H20 PPB	05/03/1974	730			.0460	.0000	.0000	.0460	.0000
1487	MP	WSEW H20 PPB	11/05/1974	1100			.0072	.0000	.0000	.0061	.0011
907A	0MP	WSEW H20 PPB	03/29/1974	1830			.0000	.0000	.0000	.0000	.0000
906A	0MP	WSEW H20 PPB	03/29/1974	830			.0250	.0000	.0000	.0250	.0000
1076A	0MP	WSEW H20 PPB	05/03/1974	730			.0000	.0000	.0000	.0000	.0000
1319	0MP	WSEW H20 PPT	09/04/1974	730			181.0000	.0000	6.4000	120.0000	60.0000

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
1388	04A	BENTH WET PPM	09/20/1974			.0500	.0053	.0039	.0260	.0100	.0130	.0025
1086	05C	BENTH WET PPM	05/03/1974	1335		.0140	.0000	.0000	.0180	.0110	.0070	.0000
1171	05C	BENTH WET PPM	05/03/1974			.0400	.0130	.0032	.1800	.0610	.0630	.0510
1380	05C	BENTH WET PPM	08/02/1974			.0700	.0069	.0031	.0550	.0130	.0330	.0087
1077	06A	BENTH WET PPM	03/22/1974	1125		.0320	.0120	.0040	.0270	.0150	.0120	.0000
1084	06A	BENTH WET PPM	05/03/1974	1155		.1700	.0000	.0000	.2300	.0960	.0610	.0690
1378	06A	BENTH WET PPM	08/02/1974			.0950	.0320	.0320	.0190	.0110	.0022	.0053
1385	06A	BENTH WET PPM	09/20/1974			.0170	.0041	.0025	.0270	.0044	.0091	.0068
1079	06B	BENTH WET PPM	03/22/1974	1145		.0560	.0110	.0140	.0320	.0190	.0130	.0000
1080	06C	BENTH WET PPM	03/22/1974	1200		.0210	.0090	.0070	.0040	.0040	.0000	.0000
1085	06C	BENTH WET PPM	05/03/1974	1255		.0009	.0001	.0001	.0002	.0000	.0002	.0000
1379	06C	BENTH WET PPM	08/02/1974			.0350	.0038	.0021	.0240	.0055	.0150	.0033
1386	06C	BENTH WET PPM	09/20/1974			.0220	.0024	.0018	.0290	.0082	.0160	.0048
1081	08A	BENTH WET PPM	03/22/1974			.0800	.0000	.0170	.0470	.0210	.0000	.0260
1369	08A	BENTH WET PPM	03/22/1974	1200		.0370	.0038	.0034	.0150	.0003	.0140	.0008
1376	08A	BENTH WET PPM	08/02/1974			.0950	.0100	.0074	.0370	.0098	.0220	.0048
1377	08A	BENTH WET PPM	08/26/1974			.1900	.0200	.0130	.0560	.0140	.0360	.0055
1384	08A	BENTH WET PPM	09/20/1974			.0490	.0071	.0046	.0230	.0074	.0140	.0020
1187	08B	BENTH WET PPM	01/25/1974	1740		.0000	.0000	.0000	.0140	.0045	.0066	.0029
1519	08B	BENTH WET PPM	03/20/1974			.0430	.0037	.0072	.0190	.0038	.0150	.0000
1189	10A	BENTH WET PPM	01/25/1974	1635		.0450	.0060	.0038	.0140	.0046	.0093	.0000
1367	10A	BENTH WET PPM	03/22/1974	935		.0000	.0000	.0000	.0340	.0110	.0220	.0011
1365	10A	BENTH WET PPM	03/22/1974	930		.4400	.1100	.0440	.7200	.2200	.2600	.2400
1372	10A	BENTH WET PPM	05/03/1974			.0350	.0060	.0034	.0540	.0032	.0074	.0000
1381	10A	BENTH WET PPM	08/02/1974	925		.0920	.0099	.0000	.0310	.0066	.0220	.0020
1374	10A	BENTH WET PPM	08/02/1974	910		.0230	.0190	.0023	.0170	.0064	.0058	.0050
1382	10A	BENTH WET PPM	09/20/1974			.2400	.0220	.0310	.0280	.0077	.0180	.0023
1141	11A	BENTH WET PPM	03/20/1974			.0370	.0130	.0035	.0250	.0021	.0230	.0000
728	001	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0160	.0040	.0120	.0000
729	002	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.2700	.0920	.1800	.0000
730	003	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.1100	.0660	.0380	.0038
731	004	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0070	.0000	.0070	.0000
732	005	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
733	006	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
734	007	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0200	.0050	.0070	.0080
735	008	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0090	.0090	.0000	.0000
736	009	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
996	01A	BOTM SED PPM	03/21/1974			.0043	.0004	.0003	.0017	.0003	.0011	.0003
1303	01A	BOTM SED PPM	07/10/1974			.0069	.0006	.0007	.0025	.0006	.0015	.0004
1426	01A	BOTM SED PPM	10/25/1974			.0290	.0030	.0023	.0140	.0040	.0050	.0047
738	011	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0230	.0060	.0170	.0000
739	012	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
741	014	BOTM SED PPM	10/10/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
746	018	BOTM SED PPM	10/12/1973			.0550	.0150	.0130	.1000	.0280	.0730	.0000
747	019	BOTM SED PPM	10/12/1973			.0000	.0000	.0000	.0710	.0000	.0710	.0000
748	020	BOTM SED PPM	10/12/1973			.0120	.0000	.0000	.0270	.0000	.0270	.0000
749	021	BOTM SED PPM	10/12/1973			.0000	.0000	.0000	.0910	.0200	.0710	.0000
750	022	BOTM SED PPM	10/12/1973			.0000	.0000	.0000	.2700	.0860	.1800	.0000
751	023	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
752	024	BOTM SED PPM	10/12/1973			.0000	.0000	.0000	.0260	.0210	.0050	.0000

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
753	025	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.1600	.0460	.1100	.0000
755	027	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0380	.0000	.0380	.0000
756	028	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.1400	.0320	.1100	.0000
760	032	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0440	.0140	.0300	.0000
761	033	BOTM SED PPM	10/16/1973			.0190	.0070	.0070	.0500	.0080	.0420	.0000
762	034	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0360	.0130	.0230	.0000
763	035	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.1400	.0480	.0920	.0000
764	036	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.1500	.1500	.0000	.0000
765	037	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
766	038	BOTM SED PPM	10/16/1973			.0660	.0160	.0100	.0540	.0000	.0540	.0000
768	040	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0230	.0230	.0000	.0000
769	041	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0100	.0030	.0070	.0000
771	042	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0200	.0200	.0000	.0000
772	043	BOTM SED PPM	10/16/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
774	045	BOTM SED PPM	10/15/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
775	046	BOTM SED PPM	10/15/1973			.0000	.0000	.0000	.1600	.0210	.1400	.0000
777	048	BOTM SED PPM	10/15/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
811	05A	BOTM SED PPM	12/13/1973			.0000	.0000	.0000	.0690	.0290	.0400	.0000
978	05A	BOTM SED PPM	03/21/1974			.0067	.0006	.0011	.0054	.0010	.0032	.0012
1302	05A	BOTM SED PPM	07/09/1974			.0043	.0005	.0004	.0012	.0000	.0012	.0000
1425	05A	BOTM SED PPM	10/25/1974			.0150	.0012	.0014	.0140	.0008	.0120	.0010
779	050	BOTM SED PPM	10/15/1973			.0040	.0009	.0008	.0520	.0000	.0430	.0090
1002	07A	BOTM SED PPM	03/19/1974			.0074	.0008	.0011	.0100	.0025	.0068	.0011
1298	07A	BOTM SED PPM	07/08/1974			.1700	.0190	.0310	.1300	.0092	.1100	.0088
1423	07B	BOTM SED PPM	10/25/1974			.2300	.0430	.0390	.1900	.0057	.1200	.0640
810	10B	BOTM SED PPM	12/12/1973			.0680	.0000	.0000	.0000	.0000	.0680	.0000
999	10B	BOTM SED PPM	03/20/1974			.0070	.0007	.0020	.0150	.0037	.0096	.0015
1301	10B	BOTM SED PPM	07/09/1974			.0140	.0012	.0032	.0180	.0045	.0110	.0023
1424	10B	BOTM SED PPM	10/25/1974			.0140	.0014	.0012	.0760	.0200	.0330	.0230
809	11A	BOTM SED PPM	12/12/1973	1015		.0240	.0000	.0000	.0110	.0110	.0000	.0000
1300	11A	BOTM SED PPM	07/09/1974			.0210	.0023	.0029	.0210	.0053	.0140	.0021
1000	11C	BOTM SED PPM	03/20/1974			.1100	.0110	.0098	.0660	.0086	.0520	.0054
1075	0FS	GRWAT H20 PPT	05/03/1974	845		.0000	.0000	.0000	6.0000	.0000	.0000	6.0000
1255	0FS	GRWAT H20 PPT	07/17/1974	1030		5.7000	.9800	.5900	1.3000	.2900	.2500	.7500
1318	0FS	GRWAT H20 PPT	09/04/1974	830		4.1000	1.0000	.9500	.6000	.0290	.1300	.4400
1421	0FS	GRWAT H20 PPT	10/16/1974	1030		4.2000	.6000	.2300	1.3000	.0067	.3300	1.0000
1486	0FS	GRWAT H20 PPT	11/05/1974	1200		2.9000	.7700	.3800	.0000	.0000	.0000	.0000
787	01A	PLANK H20 PPT	12/13/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
881	01A	PLANK H20 PPT	01/24/1974			.0000	.0000	.0000	.0002	.0000	.0001	.0001
1173	01A	PLANK H20 PPT	03/21/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1185	01A	PLANK H20 PPT	05/03/1974			.0007	.0001	.0001	.0008	.0001	.0003	.0003
1304	01A	PLANK H20 PPT	06/13/1974			.0000	.0000	.0000	.2200	.0018	.2100	.0069
1254	01A	PLANK H20 PPT	07/10/1974			.0013	.0003	.0003	.0007	.0001	.0004	.0002
1327	01A	PLANK H20 PPT	09/18/1974			.0050	.0005	.0003	.1800	.0011	.1800	.0022
882	03B	PLANK H20 PPT	01/24/1974			.0017	.0005	.0003	.0028	.0005	.0019	.0004
1174	03B	PLANK H20 PPT	03/21/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1184	03B	PLANK H20 PPT	05/03/1974			.0140	.0024	.0021	.0096	.0036	.0060	.0000
1306	03B	PLANK H20 PPT	06/13/1974			.0000	.0000	.0000	.0002	.0001	.0001	.0001
1251	03B	PLANK H20 PPT	07/10/1974			.0000	.0000	.0000	.0002	.0000	.0000	.0001
1331	03B	PLANK H20 PPT	09/20/1974			.0059	.0008	.0006	.0032	.0011	.0016	.0005

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
786	05A	PLANK H20 PPT	12/13/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
880	05A	PLANK H20 PPT	01/24/1974			.0000	.0000	.0000	.0002	.0000	.0000	.0000
1172	05A	PLANK H20 PPT	03/21/1974			.0120	.0027	.0023	.0140	.0044	.0069	.0026
1183	05A	PLANK H20 PPT	05/03/1974			.0017	.0003	.0004	.0008	.0008	.0000	.0000
1311	05A	PLANK H20 PPT	06/13/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1250	05A	PLANK H20 PPT	07/09/1974			.0037	.0005	.0003	.0014	.0005	.0008	.0001
1329	05A	PLANK H20 PPT	09/19/1974			.0004	.0001	.0001	.0001	.0000	.0001	.0001
883	05B	PLANK H20 PPT	01/24/1974			.0009	.0002	.0002	.0000	.0000	.0000	.0000
1175	05B	PLANK H20 PPT	03/21/1974			.0840	.0140	.0110	.0310	.0092	.0160	.0054
1186	05B	PLANK H20 PPT	05/03/1974			.0016	.0004	.0003	.0019	.0005	.0010	.0004
788	07A	PLANK H20 PPT	12/14/1973			.2100	.0000	.0000	.0000	.0000	.0000	.0000
877	07A	PLANK H20 PPT	01/23/1974			.0840	.0180	.0100	.0098	.0045	.0032	.0021
1166	07A	PLANK H20 PPT	03/19/1974			.0330	.0046	.0016	.0068	.0012	.0038	.0018
1310	07A	PLANK H20 PPT	06/11/1974			.0052	.0009	.0007	.0017	.0002	.0010	.0005
1176	07B	PLANK H20 PPT	05/01/1974			.0150	.0026	.0016	.0011	.0000	.0009	.0003
1305	07B	PLANK H20 PPT	06/11/1974			.0069	.0010	.0006	.0010	.0002	.0007	.0001
1248	07B	PLANK H20 PPT	07/08/1974			.0024	.0004	.0005	.0000	.0000	.0000	.0000
1324	07B	PLANK H20 PPT	09/18/1974			.0009	.0002	.0002	.0004	.0000	.0002	.0002
816	08A	PLANK H20 PPT	12/14/1973			.0120	.0022	.0017	.0065	.0011	.0043	.0011
879	08B	PLANK H20 PPT	01/24/1974			.0000	.0000	.0000	.0005	.0000	.0000	.0000
1171	08B	PLANK H20 PPT	03/20/1974			.0740	.0100	.0032	.0120	.0032	.0085	.0000
1182	08B	PLANK H20 PPT	05/02/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1307	08B	PLANK H20 PPT	06/13/1974			.0016	.0002	.0002	.0005	.0001	.0003	.0001
884	08C	PLANK H20 PPT	01/24/1974			.0095	.0014	.0006	.0015	.0007	.0006	.0002
1170	08C	PLANK H20 PPT	03/20/1974			.0510	.0053	.0042	.0210	.0079	.0080	.0054
1181	08C	PLANK H20 PPT	05/02/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1308	08C	PLANK H20 PPT	06/12/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1249	08C	PLANK H20 PPT	07/09/1974			.0001	.0000	.0000	.0000	.0000	.0000	.0000
1330	08C	PLANK H20 PPT	09/19/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
817	09A	PLANK H20 PPT	12/14/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
820	09A	PLANK H20 PPT	01/17/1974			.0230	.0018	.0019	.0040	.0012	.0023	.0005
822	09B	PLANK H20 PPT	01/17/1974			.0390	.0078	.0050	.0220	.0045	.0170	.0000
821	09C	PLANK H20 PPT	01/17/1974			.0500	.0052	.0046	.0160	.0048	.0070	.0041
818	10B	PLANK H20 PPT	12/12/1973			.0031	.0000	.0000	.0000	.0000	.0000	.0000
878	10B	PLANK H20 PPT	01/23/1974			.0069	.0000	.0000	.0028	.0009	.0019	.0000
1169	10B	PLANK H20 PPT	03/20/1974			.1100	.0160	.0073	.0160	.0046	.0097	.0014
1180	10B	PLANK H20 PPT	05/02/1974			.0001	.0000	.0000	.0001	.0000	.0000	.0000
1312	10B	PLANK H20 PPT	06/12/1974			.0003	.0001	.0001	.0003	.0000	.0000	.0001
1245	10B	PLANK H20 PPT	07/09/1974			.0002	.0001	.0000	.0001	.0000	.0001	.0000
1332	10B	PLANK H20 PPT	09/19/1974			.0001	.0000	.0000	.0000	.0000	.0000	.0000
789	11A	PLANK H20 PPT	12/12/1973			.1300	.0000	.0000	.0490	.0120	.0270	.0099
875	11A	PLANK H20 PPT	01/23/1974			.0075	.0000	.0000	.0021	.0009	.0012	.0000
1167	11A	PLANK H20 PPT	03/20/1974			.0880	.0051	.0022	.0500	.0049	.0370	.0083
1179	11A	PLANK H20 PPT	05/02/1974			.0000	.0000	.0000	.0002	.0000	.0001	.0001
1246	11A	PLANK H20 PPT	07/09/1974			.0010	.0001	.0000	.0002	.0000	.0002	.0000
1325	11A	PLANK H20 PPT	09/19/1974			.0018	.0002	.0001	.0003	.0002	.0000	.0000
876	11C	PLANK H20 PPT	01/23/1974			.0031	.0002	.0002	.0001	.0001	.0000	.0000
1168	11C	PLANK H20 PPT	03/20/1974			.0500	.0120	.0066	.0180	.0031	.0066	.0078
1178	11C	PLANK H20 PPT	05/02/1974			.0013	.0002	.0002	.0006	.0001	.0003	.0001
1313	11C	PLANK H20 PPT	06/12/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
1253	11C	PLANK H20 PPT	07/09/1974			.0013	.0001	.0001	.0005	.0001	.0002	.0001
1326	11C	PLANK H20 PPT	09/19/1974			.0022	.0003	.0001	.0012	.0001	.0010	.0001
1177	11D	PLANK H20 PPT	05/01/1974			.0047	.0008	.0007	.0031	.0003	.0014	.0014
1309	11D	PLANK H20 PPT	06/11/1974			.0001	.0000	.0000	.0001	.0000	.0000	.0001
1247	11D	PLANK H20 PPT	07/08/1974			.0014	.0002	.0002	.0005	.0001	.0002	.0002
1252	11E	PLANK H20 PPT	07/09/1974			.0080	.0010	.0001	.0013	.0002	.0009	.0003
787	01A	PLANK WET PPM	12/13/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
881	01A	PLANK WET PPM	01/24/1974			.0000	.0000	.0000	.0120	.0020	.0035	.0062
1173	01A	PLANK WET PPM	03/21/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1185	01A	PLANK WET PPM	05/03/1974			.0650	.0110	.0090	.0750	.0110	.0330	.0310
1304	01A	PLANK WET PPM	06/13/1974			.0000	.0000	.0000	4.2000	.0340	4.1000	.0460
1254	01A	PLANK WET PPM	07/10/1974			.0990	.0210	.0180	.0530	.0087	.0280	.0160
1327	01A	PLANK WET PPM	09/18/1974			.1100	.0110	.0055	3.9000	.0240	3.8000	.0460
882	03B	PLANK WET PPM	01/24/1974			.0510	.0200	.0074	.0720	.0160	.0560	.0100
1174	03B	PLANK WET PPM	03/21/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1184	03B	PLANK WET PPM	05/03/1974			.3200	.0550	.0480	.1700	.0340	.1400	.0000
1306	03B	PLANK WET PPM	06/13/1974			.0000	.0000	.0000	.0210	.0056	.0100	.0056
1251	03B	PLANK WET PPM	07/10/1974			.0000	.0000	.0000	.1600	.0280	.0240	.1100
1331	03B	PLANK WET PPM	09/20/1974			.0360	.0052	.0035	.0200	.0069	.0100	.0031
786	05A	PLANK WET PPM	12/13/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
880	05A	PLANK WET PPM	01/24/1974			.0000	.0000	.0000	.0180	.0000	.0000	.0000
1172	05A	PLANK WET PPM	03/21/1974			.5500	.1200	.1100	.6300	.2000	.3100	.1200
1183	05A	PLANK WET PPM	05/03/1974			.1000	.0180	.0270	.0510	.0510	.0000	.0000
1311	05A	PLANK WET PPM	06/13/1974			.0190	.0052	.0027	.0160	.0031	.0055	.0077
1250	05A	PLANK WET PPM	07/09/1974			.0770	.0099	.0069	.0270	.0100	.0160	.0014
1329	05A	PLANK WET PPM	09/19/1974			.0200	.0047	.0033	.0140	.0025	.0077	.0042
883	05B	PLANK WET PPM	01/24/1974			.1200	.0240	.0230	.0000	.0000	.0000	.0000
1175	05B	PLANK WET PPM	03/21/1974			.2300	.0390	.0300	.0820	.0250	.0430	.0140
1186	05B	PLANK WET PPM	05/03/1974			.0730	.0180	.0120	.0850	.0210	.0450	.0190
788	07A	PLANK WET PPM	12/14/1973			.1900	.0000	.0000	.0000	.0000	.0000	.0000
877	07A	PLANK WET PPM	01/23/1974			.1700	.0380	.0210	.0200	.0093	.0067	.0044
1166	07A	PLANK WET PPM	03/19/1974			.0390	.0056	.0020	.0082	.0014	.0047	.0021
1310	07A	PLANK WET PPM	06/11/1974			.1300	.0240	.0190	.0460	.0062	.0280	.0120
1176	07B	PLANK WET PPM	05/01/1974			.2700	.0460	.0270	.0720	.0015	.0530	.0170
1305	07B	PLANK WET PPM	06/11/1974			.5700	.0830	.0530	.0850	.0180	.0550	.0120
1248	07B	PLANK WET PPM	07/08/1974			.3000	.0520	.0590	.0000	.0000	.0000	.0000
1324	07B	PLANK WET PPM	09/18/1974			.0550	.0100	.0110	.0220	.0000	.0120	.0099
816	08A	PLANK WET PPM	12/14/1973			.1900	.0350	.0270	.1000	.0170	.0690	.0170
879	08B	PLANK WET PPM	01/24/1974			.0000	.0000	.0000	.0640	.0000	.0000	.0000
1171	08B	PLANK WET PPM	03/20/1974			.1900	.0260	.0085	.0300	.0083	.0220	.0000
1182	08B	PLANK WET PPM	05/02/1974			.0000	.0000	.0000	.0028	.0028	.0000	.0000
1307	08B	PLANK WET PPM	06/13/1974			.4000	.0510	.0540	.1200	.0250	.0770	.0210
884	08C	PLANK WET PPM	01/24/1974			.2800	.0400	.0160	.0430	.0190	.0180	.0055
1170	08C	PLANK WET PPM	03/20/1974			.1200	.0120	.0097	.0500	.0180	.0190	.0130
1181	08C	PLANK WET PPM	05/02/1974			.0190	.0027	.0000	.0250	.0063	.0160	.0023
1308	08C	PLANK WET PPM	06/12/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
1249	08C	PLANK WET PPM	07/09/1974			.0200	.0063	.0039	.0092	.0028	.0064	.0000
1330	08C	PLANK WET PPM	09/19/1974			.0000	.0000	.0000	.0000	.0000	.0000	.0000
817	09A	PLANK WET PPM	12/14/1973			.0000	.0000	.0000	.0000	.0000	.0000	.0000
820	09A	PLANK WET PPM	01/17/1974			.2000	.0150	.0170	.0340	.0100	.0190	.0046

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
822	09B	PLANK WET PPM	01/17/1974			.0850	.0170	.0110	.0480	.0100	.0380	.0000
821	09C	PLANK WET PPM	01/17/1974			.0380	.0720	.0085	.0330	.0110	.0200	.0016
818	10B	PLANK WET PPM	12/12/1973			.0440	.0000	.0000	.0000	.0000	.0000	.0000
878	10B	PLANK WET PPM	01/23/1974			.1200	.0000	.0000	.0490	.0160	.0330	.0000
1169	10B	PLANK WET PPM	03/20/1974			.3600	.0530	.0240	.0510	.0150	.0310	.0048
1180	10B	PLANK WET PPM	05/02/1974			.0380	.0065	.0050	.0300	.0024	.0180	.0100
1312	10B	PLANK WET PPM	06/12/1974			.0170	.0030	.0040	.0130	.0017	.0075	.0038
1245	10B	PLANK WET PPM	07/09/1974			.0210	.0057	.0025	.0140	.0011	.0099	.0034
1332	10B	PLANK WET PPM	09/19/1974			.0088	.0013	.0013	.0029	.0008	.0004	.0017
789	11A	PLANK WET PPM	12/12/1973			.1000	.0000	.0000	.0380	.0090	.0210	.0077
875	11A	PLANK WET PPM	01/23/1974			.0640	.0000	.0000	.0180	.0075	.0100	.0000
1167	11A	PLANK WET PPM	03/20/1974			.3600	.0210	.0088	.2100	.0220	.1500	.0340
1179	11A	PLANK WET PPM	05/02/1974			.0000	.0000	.0000	.0220	.0000	.0090	.0130
1246	11A	PLANK WET PPM	07/09/1974			.0290	.0031	.0013	.0050	.0006	.0044	.0000
1325	11A	PLANK WET PPM	09/19/1974			.0360	.0049	.0015	.0048	.0043	.0000	.0005
876	11C	PLANK WET PPM	01/23/1974			.0180	.0014	.0010	.0008	.0006	.0002	.0000
1168	11C	PLANK WET PPM	03/20/1974			.0530	.0120	.0070	.0190	.0033	.0069	.0083
1178	11C	PLANK WET PPM	05/02/1974			.1100	.0200	.0190	.0500	.0120	.0290	.0088
1313	11C	PLANK WET PPM	06/12/1974			.0000	.0000	.0000	.0025	.0000	.0010	.0015
1253	11C	PLANK WET PPM	07/09/1974			.0260	.0028	.0020	.0100	.0022	.0052	.0028
1326	11C	PLANK WET PPM	09/19/1974			.0470	.0067	.0022	.0260	.0025	.0220	.0011
1177	11D	PLANK WET PPM	05/01/1974			.0560	.0095	.0084	.0360	.0032	.0170	.0160
1309	11D	PLANK WET PPM	06/11/1974			.0300	.0026	.0086	.0200	.0034	.0000	.0170
1247	11D	PLANK WET PPM	07/08/1974			.0100	.0017	.0072	.0027	.0011	.0014	.0002
1252	11E	PLANK WET PPM	07/09/1974			.4300	.0520	.0074	.0720	.0110	.0470	.0140
784	01A	S SED DRY PPM	12/13/1973	1530	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
782	01A	S SED DRY PPM	12/13/1973	1445	8.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
992	01A	S SED DRY PPM	01/24/1974	1305	2.0	.1200	.0180	.0370	.1900	.0260	.0870	.0790
897	01A	S SED DRY PPM	03/21/1974	1157	.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
898	01A	S SED DRY PPM	03/21/1974	1145	13.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1073	01A	S SED DRY PPM	05/03/1974	1107	.0	.2600	.0064	.0450	.0240	.0130	.0000	.0110
1072	01A	S SED DRY PPM	05/03/1974	1055	12.0	.1200	.0140	.0620	.0280	.0120	.0083	.0080
799	05A	S SED DRY PPM	12/13/1973	1045	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
989	05A	S SED DRY PPM	01/24/1974	936	2.0	.3800	.0540	.1400	.1800	.0420	.1000	.0420
988	05A	S SED DRY PPM	01/24/1974	932	6.0	.0240	.0150	.0000	.0120	.0000	.0120	.0000
981	05A	S SED DRY PPM	03/21/1974	753	2.0	.0000	.0000	.0000	.1200	.0044	.0340	.0840
0980	05A	S SED DRY PPM	03/21/1974	845	7.5	.0000	.0000	.0000	.0420	.0087	.0330	.0000
1074	05A	S SED DRY PPM	05/03/1974		.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1161	05A	S SED DRY PPM	06/13/1974	751	2.0	.0000	.0000	.3100	.0540	.0000	.0540	.0000
1160	05A	S SED DRY PPM	06/13/1974	745	7.0	.0000	.0000	.0000	.0290	.0039	.0250	.0000
792	05A	S SED DRY PPM	12/13/1974	1045	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
790	07A	S SED DRY PPM	12/13/1973	1445	2.0	.3200	.0000	.0000	.0260	.0260	.0000	.0000
783	07A	S SED DRY PPM	12/13/1973	1520	6.5	.3000	.0610	.0560	.1500	.0052	.0840	.0610
863	07A	S SED DRY PPM	01/24/1974	1015	.0	.1200	.0000	.0000	.0000	.0000	.0000	.0000
853	07A	S SED DRY PPM	01/24/1974	1140	9.0	.0220	.0000	.0000	.0000	.0000	.0000	.0000
970	07A	S SED DRY PPM	03/21/1974	1310	.0	.6300	.0910	.0760	.3000	.0400	.2300	.0270
969	07A	S SED DRY PPM	03/21/1974	1300	9.0	.4500	.0670	.0760	.2100	.0053	.1500	.0500
1067	07A	S SED DRY PPM	05/02/1974	1410	.0	.2700	.1000	.0000	.2400	.0220	.1300	.0880
1068	07A	S SED DRY PPM	05/02/1974	1404	6.0	1.7000	.2400	.0980	.0270	.0000	.0000	.0270
1069	07A	S SED DRY PPM	05/02/1974	1400	10.0	.2400	.0390	.0550	.1500	.0240	.1300	.0000

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SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
858	08B	S SED DRY PPM	01/24/1974	1415	.0	.4500	.0910	.2200	.0910	.0910	.0000	.0000
1064	08B	S SED DRY PPM	05/02/1974	1455	.0	.0450	.0090	.0087	.0750	.0064	.0320	.0370
1065	08B	S SED DRY PPM	05/02/1974	1515	2.5	.0640	.0160	.0120	.1100	.0078	.0420	.0560
1066	08B	S SED DRY PPM	05/02/1974	1530	5.0	.0041	.0024	.0000	.0250	.0026	.0110	.0110
806	10A	S SED DRY PPM	12/13/1973	955	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
862	10A	S SED DRY PPM	01/22/1974	1700	8.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
795	10B	S SED DRY PPM	12/12/1973	1235	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
796	10B	S SED DRY PPM	12/12/1973	1235	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
804	10B	S SED DRY PPM	12/13/1973	845	2.0	.1800	.0340	.0220	.0810	.0120	.0460	.0230
805	10B	S SED DRY PPM	12/13/1973	940	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
857	10B	S SED DRY PPM	01/23/1974	1635	.0	.0920	.0130	.0220	.0250	.0056	.0059	.0130
866	10B	S SED DRY PPM	01/23/1974	1725	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
960	10B	S SED DRY PPM	03/20/1974	940	.0	.0000	.0000	.0000	.0650	.0110	.0380	.0160
959	10B	S SED DRY PPM	03/20/1974	1340	12.0	.0260	.0042	.0059	.0100	.0013	.0050	.0037
1055	10B	S SED DRY PPM	05/02/1974	1005	.0	.0580	.0094	.0031	.0590	.0062	.0250	.0280
1056	10B	S SED DRY PPM	05/02/1974	959	6.0	.0000	.0000	.0000	.0670	.0000	.0380	.0290
1057	10B	S SED DRY PPM	05/02/1974	955	11.0	.9100	.1600	.0440	.0610	.0670	.0000	.0000
1159	10B	S SED DRY PPM	06/12/1974	905	2.0	.9000	.1500	.1600	.0480	.0480	.0000	.0000
1158	10B	S SED DRY PPM	06/12/1974	855	11.0	.0000	.0000	.0000	.0150	.0150	.0000	.0000
1287	10B	S SED DRY PPM	07/31/1974	1340	.0	.6300	.0900	.0760	.1100	.0000	.0760	.0310
1286	10B	S SED DRY PPM	07/31/1974	1500	6.0	.5300	.0750	.0930	.1200	.0059	.0810	.0340
1285	10B	S SED DRY PPM	07/31/1974	1330	10.0	.2900	.0420	.0460	.0990	.0092	.0760	.0140
803	10C	S SED DRY PPM	12/12/1973	1545	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
860	10C	S SED DRY PPM	01/23/1974	1510	.0	.1100	.0000	.0000	.0000	.0000	.0000	.0000
868	10C	S SED DRY PPM	01/23/1974	1550	6.0	.0280	.0051	.0360	.0380	.0051	.0330	.0000
780	11A	S SED DRY PPM	12/12/1973	955	2.0	.2100	.0350	.0380	.0000	.0000	.0000	.0000
794	11A	S SED DRY PPM	12/12/1973	1000	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
791	11A	S SED DRY PPM	12/12/1973	1100	6.0	.0790	.0150	.0160	.0075	.0075	.0000	.0000
871	11A	S SED DRY PPM	01/23/1974	845	.0	.1800	.0320	.1000	.1500	.0160	.1300	.0000
861	11A	S SED DRY PPM	01/23/1974	920	5.0	.1100	.0190	.0420	.0660	.0200	.0460	.0000
952	11A	S SED DRY PPM	03/20/1974	853	.0	.2600	.0340	.0250	.1200	.0140	.0700	.0310
951	11A	S SED DRY PPM	03/20/1974	847	6.0	.0000	.0000	.0000	.0930	.0210	.0720	.0000
1045	11A	S SED DRY PPM	05/01/1974	805	8.0	.0930	.0170	.0150	.0350	.0097	.0250	.0000
1275	11A	S SED DRY PPM	07/31/1974	719	.4	.2600	.0330	.0360	.0520	.0000	.0410	.0110
1274	11A	S SED DRY PPM	07/31/1974	715	4.4	.3500	.0560	.0840	.0850	.0130	.0440	.0280
956	11C	S SED DRY PPM	03/20/1974	1150	.0	.0000	.0000	.0000	.0150	.0029	.0120	.0000
955	11C	S SED DRY PPM	03/20/1974	1032	28.0	.3200	.0420	.0280	.1200	.0220	.0630	.0310
1049	11C	S SED DRY PPM	05/01/1974	1402	.0	.0310	.0084	.0065	.0240	.0048	.0120	.0072
1050	11C	S SED DRY PPM	05/01/1974	1440	10.5	.1100	.0260	.0180	.0750	.0060	.0280	.0410
1051	11C	S SED DRY PPM	05/01/1974	1525	21.0	.0320	.0053	.0070	.0550	.0028	.0130	.0390
1281	11C	S SED DRY PPM	07/31/1974	1205	2.4	.0760	.0110	.0180	.0010	.0000	.0010	.0000
784	01A	S SED H20 PPT	12/13/1973	1530	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
782	01A	S SED H20 PPT	12/13/1973	1445	8.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
992	01A	S SED H20 PPT	01/24/1974	1305	2.0	4.3000	.6400	1.3000	6.8000	.9100	3.1000	2.8000
897	01A	S SED H20 PPT	03/21/1974	1157	.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
898	01A	S SED H20 PPT	03/21/1974	1145	13.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1073	01A	S SED H20 PPT	05/03/1974	1107	.0	2.1000	.0520	.3600	.2000	.1000	.0000	.1000
1072	01A	S SED H20 PPT	05/03/1974	1055	12.0	2.0000	.2400	1.0000	.4700	.2000	.1400	.1300
799	05A	S SED H20 PPT	12/13/1973	1045	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
989	05A	S SED H20 PPT	01/24/1974	936	2.0	3.7000	.5200	1.3000	1.8000	.4000	1.0000	.4000

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
988	05A	S SED H20 PPT	01/24/1974	932	6.0	.4800	.3000	.0000	.2400	.0000	.2400	.0000
981	05A	S SED H20 PPT	03/21/1974	753	2.0	.0000	.0000	.0000	2.9000	.1100	.8900	1.9000
0980	05A	S SED H20 PPT	03/21/1974	845	7.5	.0000	.0000	.0000	2.7000	.5500	2.1000	.0000
1074	05A	S SED H20 PPT	05/03/1974		.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1161	05A	S SED H20 PPT	06/13/1974	751	2.0	.0000	.0000	4.8000	.8200	.0000	.8200	.0000
1160	05A	S SED H20 PPT	06/13/1974	745	7.0	.0000	.0000	.0000	1.1000	.1500	.9800	.0000
792	05A	S SED H20 PPT	12/13/1974	1045	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
790	07A	S SED H20 PPT	12/13/1973	1445	2.0	2.3000	.0000	.0000	.1900	.1900	.0000	.0000
783	07A	S SED H20 PPT	12/13/1973	1520	6.5	2.2000	.4600	.4200	1.1000	.0390	.6300	.4600
863	07A	S SED H20 PPT	01/24/1974	1015	.0	1.4000	.0000	.0000	.0000	.0000	.0000	.0000
853	07A	S SED H20 PPT	01/24/1974	1140	9.0	.1900	.0000	.0000	.0000	.0000	.0000	.0000
970	07A	S SED H20 PPT	03/21/1974	1310	.0	6.0000	.8600	.7200	2.9000	.3700	2.2000	.3100
969	07A	S SED H20 PPT	03/21/1974	1300	9.0	3.7000	.5300	.6300	1.7000	.0440	1.2000	.4200
1067	07A	S SED H20 PPT	05/02/1974	1410	.0	1.7000	.6600	.0000	1.5000	.1400	.8300	.5600
1068	07A	S SED H20 PPT	05/02/1974	1404	6.0	8.5000	1.2000	.5000	.1400	.0000	.0000	.1400
1069	07A	S SED H20 PPT	05/02/1974	1400	10.0	1.9000	.0320	.4400	1.3000	.1900	1.1000	.0000
982	07B	S SED H20 PPT	03/19/1974	950	2.0	1.2000	.5000	.1700	.8000	.0000	.3500	.4500
858	08B	S SED H20 PPT	01/24/1974	1415	.0	1.9000	.3000	.7200	.3000	.3000	.0000	.0000
965	08B	S SED H20 PPT	03/21/1974	1110	4.0	.6000	.1000	.1300	.4800	.0540	.1900	.2400
1064	08B	S SED H20 PPT	05/02/1974	1455	.0	.5500	.1100	.1100	.9200	.0780	.3900	.4500
1065	08B	S SED H20 PPT	05/02/1974	1515	2.5	.7600	.1900	.1500	1.3000	.0950	.5100	.6700
1066	08B	S SED H20 PPT	05/02/1974	1530	5.0	.1100	.0630	.0000	.6700	.0700	.3100	.2900
806	10A	S SED H20 PPT	12/13/1973	955	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
862	10A	S SED H20 PPT	01/22/1974	1700	8.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
795	10B	S SED H20 PPT	12/12/1973	1235	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
796	10B	S SED H20 PPT	12/12/1973	1235	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
804	10B	S SED H20 PPT	12/13/1973	845	2.0	.7800	.1500	.0900	.3400	.0490	.1900	.0990
805	10B	S SED H20 PPT	12/13/1973	940	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
857	10B	S SED H20 PPT	01/23/1974	1635	.0	.2500	.0360	.0610	.0670	.0160	.0160	.0350
866	10B	S SED H20 PPT	01/23/1974	1725	10.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
960	10B	S SED H20 PPT	03/20/1974	940	.0	.0000	.0000	.0000	.8500	.1400	.5000	.2100
959	10B	S SED H20 PPT	03/20/1974	1340	12.0	1.5000	.2300	.3300	.5600	.0710	.2800	.2100
1055	10B	S SED H20 PPT	05/02/1974	1005	.0	.3100	.0510	.0170	.3200	.0340	.1400	.1500
1056	10B	S SED H20 PPT	05/02/1974	959	6.0	.0000	.0000	.0000	.3500	.0000	.2000	.1500
1057	10B	S SED H20 PPT	05/02/1974	955	11.0	19.0000	3.5000	.9300	1.3000	1.3000	.0000	.0000
1159	10B	S SED H20 PPT	06/12/1974	905	2.0	1.5000	.2600	.2800	.0820	.0820	.0000	.0000
1158	10B	S SED H20 PPT	06/17/1974	855	11.0	.0000	.0000	.0000	.0170	.0170	.0000	.0000
1287	10B	S SED H20 PPT	07/31/1974	1340	.0	3.4000	.4900	.4200	.5900	.0000	.4200	.1700
1286	10B	S SED H20 PPT	07/31/1974	1500	6.0	2.0000	.2700	.3400	.4400	.0220	.3000	.1200
1285	10B	S SED H20 PPT	07/31/1974	1330	10.0	3.2000	.4700	.5100	1.1000	.1000	.8400	.1500
803	10C	S SED H20 PPT	12/12/1973	1545	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
860	10C	S SED H20 PPT	01/23/1974	1510	.0	.3700	.0000	.0000	.0000	.0000	.0000	.0000
868	10C	S SED H20 PPT	01/23/1974	1550	6.0	.1900	.0340	.2400	.2500	.0340	.2200	.0000
794	11A	S SED H20 PPT	12/12/1973	1000	2.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
780	11A	S SED H20 PPT	12/12/1973	955	2.0	1.4000	.2200	.2400	.0000	.0000	.0000	.0000
791	11A	S SED H20 PPT	12/12/1973	1100	6.0	.5100	.0960	.0100	.0490	.0490	.0000	.0000
871	11A	S SED H20 PPT	01/23/1974	845	.0	.4400	.0770	.2400	.3600	.0390	.3200	.0000
861	11A	S SED H20 PPT	01/23/1974	920	5.0	.9200	.1600	.3500	.5400	.1600	.3800	.0000
952	11A	S SED H20 PPT	03/20/1974	853	.0	2.3000	.3000	.2300	1.0000	.1300	.6300	.2800
951	11A	S SED H20 PPT	03/20/1974	847	6.0	.0000	.0000	.0000	.8600	.1900	.6700	.0000

SAMPL NUMBR C501	STAT ION C502	SAMPLE TYPE AND UNITS C506	DATE MM DD YY C503	TIME HRS C504	SAMPLE DEPT M C505	TECHN CHLORDANE C513	ALPHA CHLORDANE C514	GAMMA CHLORDANE C515	TOTAL DDT C516	DDE - C517	DDD - C518	DDT - C519
**												
1045	11A	S SED H20 PPT	05/01/1974	805	8.0	1.3000	.3300	.2100	.4800	.1300	.3500	.0000
1275	11A	S SED H20 PPT	07/31/1974	719	.4	1.7000	.2200	.2300	.2800	.0000	.2600	.0150
1274	11A	S SED H20 PPT	07/31/1974	715	4.4	2.8000	.4100	.6200	.6300	.0970	.3200	.2100
956	11C	S SED H20 PPT	03/20/1974	1150	.0	.0000	.0000	.0000	.1400	.0270	.1100	.0000
955	11C	S SED H20 PPT	03/20/1974	1032	28.0	5.3000	.7000	.4600	2.0000	.3600	1.1000	.5200
1049	11C	S SED H20 PPT	05/01/1974	1402	.0	.3000	.0800	.0620	.1900	.0150	.1100	.0690
1050	11C	S SED H20 PPT	05/01/1974	1440	10.5	.3300	.0780	.0520	.2200	.0180	.0820	.1200
1051	11C	S SED H20 PPT	05/01/1974	1525	21.0	.3300	.0560	.0740	.5700	.0300	.1300	.4100
1281	11C	S SED H20 PPT	07/31/1974	1205	2.4	.2500	.0360	.0590	.0320	.0000	.0320	.0000
906B	0MP	SSEW H20 PPB	03/29/1974	830		.0000	.0000	.0000	.0000	.0000	.0000	.0000
907B	0MP	SSEW H20 PPB	03/29/1974	1830		.0000	.0000	.0000	.0004	.0004	.0000	.0000
1076B	0MP	SSEW H20 PPB	05/03/1974	730		.0000	.0000	.0000	.0010	.0000	.0010	.0000
1487	MP	WSEW H20 PPB	11/05/1974	1100		.0570	.0080	.0052	.0076	.0003	.0048	.0015
907A	0MP	WSEW H20 PPB	03/29/1974	1830		.0970	.0420	.0210	.0048	.0000	.0027	.0021
906A	0MP	WSEW H20 PPB	03/29/1974	830		.0096	.0090	.0020	.0120	.0000	.0120	.0000
1076A	0MP	WSEW H20 PPB	05/03/1974	730		.0000	.0000	.0000	.0300	.0000	.0300	.0000
1319	0MP	WSEW H20 PPT	09/04/1974	730		24.0000	3.4000	1.8000	12.0000	.1500	7.9000	4.0000

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STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	SURF TEMP C606	BOTM TEMP C607	D OXYG SURF C608	D OXYG BOTM C609	PH SURF C610	PH BOTM C611	SALNT SURF C612	SALNT BOTM C613	RCTV PHOSPH MCG A L C614	RCTV NITRAT MCG A L C615
**													
00C	06/13/1974	910	BOTM WATER	23.50						.00	.00		
00C	09/20/1974	930	BOTM WATER										
00C	10/25/1974	930	BOTM WATER										
00C	11/28/1974	930	BOTM WATER										
00C	12/18/1974	930	BOTM WATER										
01A	12/13/1973	1425	BOTM WATER	4.50	4.30	12.90	13.00			.05	.04		
01A	01/24/1974	1355	BOTM WATER	2.65	2.46	13.60				.00	.00		
01A	03/21/1974	1200	BOTM WATER	6.00	5.00	11.60	11.20						
01A	05/03/1974	1145	BOTM WATER	16.00	15.80	9.90	9.60						
01A	06/13/1974	1350	BOTM WATER	25.90	24.99	8.40	6.80						
01A	07/10/1974	1035	BOTM WATER	27.70	26.80	7.90	6.30						
01A	09/20/1974	1200	BOTM WATER	22.80	22.50	8.80	8.60			1.60	.00		
01A	12/18/1974	1230	BOTM WATER	3.50	3.50	6.65	6.75			.00	.00		
05A	12/13/1973	1040	BOTM WATER	5.00	5.00	12.50	11.20			1.65	2.16		
05A	01/24/1974	1040	BOTM WATER	2.11	2.20	13.30	12.20			1.59	2.00		
05A	03/21/1974	830	BOTM WATER	5.35	5.43	12.60	11.60			.53	1.94		
05A	05/03/1974	845	BOTM WATER	15.00	14.82	10.20	14.80			1.20	1.30		
05A	06/13/1974	845	BOTM WATER	22.40	22.35	8.80	8.40			2.82	3.16		
05A	07/09/1974	1200	BOTM WATER	27.80	27.20	8.00	8.00			2.54	2.84		
05A	09/19/1974	1135	BOTM WATER	23.50	23.00	8.30	7.45			5.40	6.20		
05A	10/24/1974	1245	BOTM WATER	13.20	12.50	10.15	9.80			5.50	6.70		
05A	11/27/1974	1130	BOTM WATER	6.00	6.00	12.10	12.00			4.26	4.48		
05A	12/17/1974	1040	BOTM WATER	4.22	5.14	12.80	12.00			2.56	6.80		
10B	12/12/1973	1150	BOTM WATER	6.50	8.00	11.40	9.50			8.15	12.70		
10B	01/23/1974	1625	BOTM WATER	4.70	4.50	12.70	12.20			4.28	12.60		
10B	03/20/1974	1020	BOTM WATER	6.00	5.50	12.20	11.30			4.18	11.70		
10B	05/02/1974	1000	BOTM WATER	14.66	14.53	10.20	10.40			5.18	5.02		
10B	06/12/1974	1057	BOTM WATER	23.32	17.06	8.40	1.00			5.71	16.11		
10B	07/09/1974	935	BOTM WATER	26.08	22.30	8.10	1.40			7.20	13.52		
10B	09/19/1974	930	BOTM WATER	23.00	23.80	8.25	4.25			11.00	16.30		
10B	10/24/1974	1010	BOTM WATER	12.50	16.00	10.00	6.60			11.44	18.64		
10B	11/27/1974	930	BOTM WATER	6.20	10.10	11.60	10.20			11.74	16.84		
10B	12/17/1974	830	BOTM WATER	4.48	7.00	12.20	10.30			5.00	17.40		
11A	12/12/1973	830	BOTM WATER	6.50	6.50	11.50	11.70			10.58	10.58		
11A	01/23/1974	810	BOTM WATER	2.90	3.30	11.30	11.30			5.50			
11A	03/20/1974	755	BOTM WATER	5.66	5.71	12.40	12.40			5.58	5.67		
11A	05/02/1974	815	BOTM WATER	14.94	14.87	10.00	11.10			5.30	5.34		
11A	06/12/1974	950	BOTM WATER	22.89	19.87	8.20	3.20			6.45	10.73		
11A	07/09/1974	825	BOTM WATER	25.70	24.23	8.20	4.80			7.75	10.57		
11A	09/19/1974	800	BOTM WATER	23.00	23.00	8.20	7.10			12.01	12.88		
11A	10/24/1974	800	BOTM WATER	13.50	13.00	9.80	9.50			12.50	12.94		
11A	11/27/1974	800	BOTM WATER	7.80	7.80	10.60	10.40			13.26	14.10		
11A	12/17/1974	700	BOTM WATER	6.50	6.20	11.90	11.60			8.40	11.80		
01A	12/13/1973	1425	SED	4.50	4.30	12.90	13.00			.05	.04		
01A	01/24/1974	1355	SED	2.65	2.46	13.60				.00	.00		
01A	03/21/1974	1200	SED	6.00	5.00	11.60	11.20						
01A	05/03/1974	1145	SED	16.00	15.80	9.90	9.60						
01A	06/13/1974	1350	SED	25.90	24.99	8.40	6.80						
01A	07/10/1974	1035	SED	27.70	26.80	7.90	6.30						
01A	09/20/1974	1200	SED	22.80	22.50	8.80	8.60			1.60	.00		

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STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	SURF TEMP C606	BOTM TEMP C607	D OXYG SURF C608	D OXYG BOTM C609	PH SURF C610	PH BOTM C611	SALNT SURF C612	SALNT BOTM C613	RCTV PHOSPH MCG A L C614	RCTV NITRAT MCG A L C615
**													
01A	12/18/1974	1230	SED	3.50	3.50	6.65	6.75			.00	.00		
05A	12/13/1973	1040	SED	5.00	5.00	12.50	11.20			1.65	2.16		
05A	01/24/1974	1040	SED	2.11	2.20	13.30	12.20			1.59	2.00		
05A	03/21/1974	830	SED	5.35	5.43	12.60	11.60			.53	1.94		
05A	05/03/1974	845	SED	15.00	14.82	10.20	14.80			1.20	1.30		
05A	06/13/1974	845	SED	22.40	22.35	8.80	8.40			2.82	3.16		
05A	07/09/1974	1200	SED	27.80	27.20	8.00	8.00			2.54	2.84		
05A	09/19/1974	1135	SED	23.50	23.00	8.30	7.45			5.40	6.20		
05A	10/24/1974	1245	SED	13.20	12.50	10.15	9.80			5.50	6.70		
05A	11/27/1974	1130	SED	6.00	6.00	12.10	12.00			4.26	4.48		
05A	12/17/1974	1040	SED	4.22	5.14	12.80	12.00			2.56	6.80		
10B	12/12/1973	1150	SED	6.50	8.00	11.40	9.50			8.15	12.70		
10B	01/23/1974	1625	SED	4.70	4.50	12.70	12.20			4.28	12.60		
10B	03/20/1974	1020	SED	6.00	5.50	12.20	11.30			4.18	11.70		
10B	05/02/1974	1000	SED	14.66	14.53	10.20	10.40			5.18	5.02		
10B	06/12/1974	1057	SED	23.32	17.06	8.40	1.00			5.71	16.11		
10B	07/09/1974	935	SED	26.08	22.30	8.10	1.40			7.20	13.52		
10B	09/19/1974	930	SED	23.00	23.80	8.25	4.25			11.00	16.30		
10B	10/24/1974	1010	SED	12.50	16.00	10.00	6.60			11.44	18.64		
10B	11/27/1974	930	SED	6.20	10.10	11.60	10.20			11.74	16.84		
10B	12/17/1974	830	SED	4.48	7.00	12.20	10.30			5.00	17.40		
11A	12/12/1973	830	SED	6.50	6.50	11.50	11.70			10.58	10.58		
11A	01/23/1974	810	SED	2.90	3.30	11.30	11.30			5.50			
11A	03/20/1974	755	SED	5.66	5.71	12.40	12.40			5.58	5.67		
11A	05/02/1974	815	SED	14.94	14.87	10.00	11.10			5.30	5.34		
11A	06/12/1974	950	SED	22.89	19.87	8.20	3.20			6.45	10.73		
11A	07/09/1974	825	SED	25.70	24.23	8.20	4.80			7.75	10.57		
11A	09/19/1974	800	SED	23.00	23.00	8.20	7.10			12.01	12.88		
11A	10/24/1974	800	SED	13.50	13.00	9.80	9.50			12.50	12.94		
11A	11/27/1974	800	SED	7.80	7.80	10.60	10.40			13.26	14.10		
11A	12/17/1974	700	SED	6.50	6.20	11.80	11.60			8.40	11.80		
05A	03/21/1974	830	SURF WATER	5.35	5.43	12.60	11.60			.53	1.94		
10B	03/20/1974	1020	SURF WATER	6.00	5.50	12.20	11.30			4.18	11.70		
11A	03/20/1974	755	SURF WATER	5.66	5.71	12.40	12.40			5.58	5.67		
01A	12/13/1973	1425	SUS SED	4.50	4.30	12.90	13.00			.05	.04		
01A	01/24/1974	1355	SUS SED	2.65	2.46	13.60				.00	.00		
01A	03/21/1974	1200	SUS SED	6.00	5.00	11.60	11.20						
01A	05/03/1974	1145	SUS SED	16.00	15.80	9.90	9.60						
01A	06/13/1974	1350	SUS SED	25.90	24.99	8.40	6.80						
01A	07/10/1974	1035	SUS SED	27.70	26.80	7.90	6.30						
01A	09/20/1974	1200	SUS SED	22.80	22.50	8.80	8.60			1.60	.00		
01A	12/18/1974	1230	SUS SED	3.50	3.50	6.65	6.75			.00	.00		
11A	12/12/1973	830	SUS SED	6.50	6.50	11.50	11.70			10.58	10.58		
11A	01/23/1974	810	SUS SED	2.90	3.30	11.30	11.30			5.50			
11A	03/20/1974	755	SUS SED	5.66	5.71	12.40	12.40			5.58	5.67		
11A	05/02/1974	815	SUS SED	14.94	14.87	10.00	11.10			5.30	5.34		
11A	06/12/1974	950	SUS SED	22.89	19.87	8.20	3.20			6.45	10.73		
11A	07/09/1974	825	SUS SED	25.70	24.23	8.20	4.80			7.75	10.57		
11A	09/19/1974	800	SUS SED	23.00	23.00	8.20	7.10			12.01	12.88		
11A	10/24/1974	800	SUS SED	13.50	13.00	9.80	9.50			12.50	12.94		

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STAT ION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	SURF TEMP C606	BOTM TEMP C607	D OXYG SURF C608	D OXYG BOTM C609	PH SURF C610	PH BOTM C611	SALNT SURF C612	SALNT BOTM C613	RCTV PHOSPH MCG A L C614	RCTV NITRAT MCG A L C615
**													
11A	11/27/1974	800	SUS SED	7.80	7.80	10.60	10.40			13.26	14.10		
11A	12/17/1974	700	SUS SED	6.50	6.20	11.80	11.60			8.40	11.80		

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STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	AMMONIA MCG A L C616	ORG CARBON H20 MG AL C617	ORG NITROGN MCG A L C618	HUMIC ACID PPM C619	TOTAL VIABLE CNT CFU ML C620	TOTAL COLIF MPN 100ML C621	FAECAL COL MPN 100ML C622	FAECAL STR MNP 100ML C623
**											
00C	06/13/1974	910	BOTM WATER					10500.00	130.00	18.00	7.20
00C	09/20/1974	930	BOTM WATER					5500.00	170.00	6.80	8.60
00C	10/25/1974	930	BOTM WATER					8300.00	23.00	13.00	.60
00C	11/28/1974	930	BOTM WATER					29900.00	240.00	79.00	92.00
00C	12/18/1974	930	BOTM WATER					49800.00	1600.00	430.00	220.00
01A	12/13/1973	1425	BOTM WATER					114000.00		1600.00	220.00
01A	01/24/1974	1355	BOTM WATER					238000.00	16000.00	2400.00	2200.00
01A	03/21/1974	1200	BOTM WATER					62000.00	330.00	78.00	86.00
01A	05/03/1974	1145	BOTM WATER					97800.00	200.00	85.00	48.00
01A	06/13/1974	1350	BOTM WATER					11700.00	45.00	20.00	14.60
01A	07/10/1974	1035	BOTM WATER					20300.00	110.00	23.00	4.60
01A	09/20/1974	1200	BOTM WATER					1850.00	540.00	4.50	15.00
01A	12/18/1974	1230	BOTM WATER					910000.00	1600.00	33.00	220.00
05A	12/13/1973	1040	BOTM WATER					10400.00		23.00	15.00
05A	01/24/1974	1040	BOTM WATER					25300.00	70.00	4.50	4.20
05A	03/21/1974	830	BOTM WATER					24000.00	170.00	13.00	4.60
05A	05/03/1974	845	BOTM WATER					21700.00	6.80	2.00	1.80
05A	06/13/1974	845	BOTM WATER					3250.00	1.80	1.80	1.40
05A	07/09/1974	1200	BOTM WATER					3000.00	7.80	2.00	1.50
05A	09/19/1974	1135	BOTM WATER					1500.00	1.80	1.80	.72
05A	10/24/1974	1245	BOTM WATER					560.00	6.80	2.00	.72
05A	11/27/1974	1130	BOTM WATER					22100.00	2.00	2.00	.72
05A	12/17/1974	1040	BOTM WATER					43100.00	920.00	220.00	220.00
10B	12/12/1973	1150	BOTM WATER					1070.00		2.00	1.80
10B	01/23/1974	1625	BOTM WATER					7080.00	33.00	7.80	.70
10B	03/20/1974	1020	BOTM WATER					14000.00	2.00	1.80	1.80
10B	05/02/1974	1000	BOTM WATER					13500.00	2.00	1.80	1.80
10B	06/12/1974	1057	BOTM WATER					4600.00	3.00	1.80	4.60
10B	07/09/1974	935	BOTM WATER					1570.00	4.50	1.80	.60
10B	09/19/1974	930	BOTM WATER					1170.00	7.80	1.80	1.44
10B	10/24/1974	1010	BOTM WATER					490.00	13.00	1.80	2.20
10B	11/27/1974	930	BOTM WATER					1800.00	1.80	1.80	.60
10B	12/17/1974	830	BOTM WATER					31800.00	2.00	2.00	1.46
11A	12/12/1973	830	BOTM WATER					19800.00		7.80	1.50
11A	01/23/1974	810	BOTM WATER					41100.00	21.00	2.00	3.00
11A	03/20/1974	755	BOTM WATER					17000.00	33.00	1.80	1.80
11A	05/02/1974	815	BOTM WATER					113000.00	1.80	1.80	1.80
11A	06/12/1974	950	BOTM WATER					13900.00	33.00	2.00	15.00
11A	07/09/1974	825	BOTM WATER					5500.00	49.00	2.00	30.00
11A	09/19/1974	800	BOTM WATER					4150.00	22.00	1.80	92.00
11A	10/24/1974	800	BOTM WATER					6900.00	7.80	2.00	1.80
11A	11/27/1974	800	BOTM WATER					18100.00	4.50	1.80	.60
11A	12/17/1974	700	BOTM WATER					12100.00	33.00	4.50	3.00
01A	12/13/1973	1425	SED					7500000.00		14.00	460.00
01A	01/24/1974	1355	SED					930000.00	130.00	17.00	46.00
01A	03/21/1974	1200	SED					850000.00	31.00	1.80	7.20
01A	05/03/1974	1145	SED					3640000.00	14.00	1.80	14.60
01A	06/13/1974	1350	SED					10000000.00	540.00	79.00	14.60
01A	07/10/1974	1035	SED					37400000.00	170.00	33.00	7.20
01A	09/20/1974	1200	SED					10100000.00	49.00	49.00	7.20

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STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	AMMONIA MCG A L C616	ORG CARBON H20 MG AL C617	ORG NITROGN MCG A L C618	HUMIC ACID PPM C619	TOTAL VIABLE CNT CFU ML C620	TOTAL COLIF MPN 100ML C621	FAECAL COL MPN 100ML C622	FAECAL STR MNP 100ML C623
**											
01A	12/18/1974	1230	SED					4500000.00	79.00	11.00	18.20
05A	12/13/1973	1040	SED					750000.00		1.80	60.00
05A	01/24/1974	1040	SED					1200000.00	46.00	13.00	18.20
05A	03/21/1974	830	SED					4300000.00	49.00	4.50	42.00
05A	05/03/1974	845	SED					91300.00	1.80	1.80	6.00
05A	06/13/1974	845	SED					31500.00	2.00	1.80	6.00
05A	07/09/1974	1200	SED					111000.00	1.80	1.80	6.00
05A	09/19/1974	1135	SED					121000.00	4.50	3.60	7.20
05A	10/24/1974	1245	SED					89000.00	1.80	1.80	3.60
05A	11/27/1974	1130	SED					260000.00	1.80	1.80	6.00
05A	12/17/1974	1040	SED					386000.00	9.30	1.80	6.00
10B	12/12/1973	1150	SED					380000.00		1.80	72.00
10B	01/23/1974	1625	SED					256000.00	2.00	1.80	7.20
10B	03/20/1974	1020	SED					1500000.00	1.80	1.80	46.00
10B	05/02/1974	1000	SED					2040000.00	1.80	1.80	18.20
10B	06/12/1974	1057	SED					257000.00	3.60	1.80	6.00
10B	07/09/1974	935	SED					1690000.00	17.00	1.80	6.00
10B	09/19/1974	930	SED					2950000.00	1.80	1.80	7.20
10B	10/24/1974	1010	SED					110000.00	1.80	1.80	7.20
10B	11/27/1974	930	SED					241000.00	1.80	1.80	6.00
10B	12/17/1974	830	SED					2520000.00	2.00	1.80	6.00
11A	12/12/1973	830	SED					6600000.00		1.80	1860.00
11A	01/23/1974	810	SED					3250000.00	13.00	4.50	6.00
11A	03/20/1974	755	SED					2400000.00	7.80	2.00	46.00
11A	05/02/1974	815	SED					1340000.00	1.80	1.80	6.00
11A	06/12/1974	950	SED					7900000.00	17.00	1.80	30.00
11A	07/09/1974	825	SED					670000.00	1.80	1.80	18.20
11A	09/19/1974	800	SED					281000.00	9.10	1.80	12.00
11A	10/24/1974	800	SED					465000.00	1.80	1.80	6.00
11A	11/27/1974	800	SED					45000000.00	4.00	1.80	22.00
11A	12/17/1974	700	SED					2620000.00	1.80	1.80	6.00
05A	03/21/1974	830	SURF WATER					29000.00	220.00	7.80	2.80
10B	03/20/1974	1020	SURF WATER					27000.00	14.00	2.00	.70
11A	03/20/1974	755	SURF WATER					13000.00	17.00	1.80	1.40
01A	12/13/1973	1425	SUS SED					750000.00		9200.00	22000.00
01A	01/24/1974	1355	SUS SED					1280000.00	32000.00	4800.00	44000.00
01A	03/21/1974	1200	SUS SED					20000.00	2200.00	1360.00	120.00
01A	05/03/1974	1145	SUS SED					985000.00	110.00	110.00	400.00
01A	06/13/1974	1350	SUS SED					149000.00	400.00	360.00	120.00
01A	07/10/1974	1035	SUS SED					2110.00	1580.00	980.00	120.00
01A	09/20/1974	1200	SUS SED					2030000.00	45.00	1300.00	120.00
01A	12/18/1974	1230	SUS SED						1600.00	1600.00	880.00
11A	12/12/1973	830	SUS SED					910000.00		20.00	6.00
11A	01/23/1974	810	SUS SED					314000.00	540.00	76.00	120.00
11A	03/20/1974	755	SUS SED					150000.00	90.00	36.00	120.00
11A	05/02/1974	815	SUS SED					2400000.00	20.00	18.00	60.00
11A	06/12/1974	950	SUS SED					217000.00	1100.00	78.00	144.00
11A	07/09/1974	825	SUS SED					2990.00	460.00	40.00	136.00
11A	09/19/1974	800	SUS SED					14100.00	45.00	4.50	220.00
11A	10/24/1974	800	SUS SED					10000.00	20.00	18.00	60.00

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STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	AMMONIA MCG A L C616	ORG CARBON H20 MG AL C617	ORG NITROGN MCG A L C618	HUMIC ACID PPM C619	TOTAL VIABLE CNT CFU ML C620	TOTAL COLIF MPN 100ML C621	FAECAL COL MPN 100ML C622	FAECAL STR MNP 100ML C623
**											
11A	11/27/1974	800	SUS SED					47000.00	4.80	1.80	460.00
11A	12/17/1974	700	SUS SED					371000.00	220.00	45.00	6.00

STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	TOTAL COL MILL TVC NM C625	FAECAL COL MILL TVC NM C626	FAECAL STR MILL TVC NM C627	SECCHI DISC M C628	COMMENTS OF SAMPLE C629
**								
00C	06/13/1974	910	BOTM WATER	123.80	17.10	6.90		622=<
00C	09/20/1974	930	BOTM WATER	309.06	12.36	15.63		
00C	10/25/1974	930	BOTM WATER	27.70	15.67			
00C	11/28/1974	930	BOTM WATER	80.25	26.41	30.76		
00C	12/18/1974	930	BOTM WATER	321.60	86.46	44.22		621,622=<
01A	12/13/1973	1425	BOTM WATER		140.00	19.10	.25	623,627=>
01A	01/24/1974	1355	BOTM WATER	672.00	100.80	92.40	.30	623,627=>
01A	03/21/1974	1200	BOTM WATER	53.20	12.60	13.90		
01A	05/03/1974	1145	BOTM WATER	20.40	8.67	4.90	.80	
01A	06/13/1974	1350	BOTM WATER	38.50	17.10	12.50	1.25	
01A	07/10/1974	1035	BOTM WATER	54.90	11.33	2.26	1.20	
01A	09/20/1974	1200	BOTM WATER	2918.90	24.32	81.10	1.50	
01A	12/18/1974	1230	BOTM WATER	16.80	.34	2.31	.25	621,623,625=<
05A	12/13/1973	1040	BOTM WATER		22.00	14.40	.60	
05A	01/24/1974	1040	BOTM WATER	27.65	1.80	1.66	.75	
05A	03/21/1974	830	BOTM WATER	70.80	5.40	1.90	.30	
05A	05/03/1974	845	BOTM WATER	3.13	.92	.83	.50	
05A	06/13/1974	845	BOTM WATER	5.50	5.50	4.30	1.25	621,622,625,626=<
05A	07/09/1974	1200	BOTM WATER	26.00	6.66	5.00	.80	
05A	09/19/1974	1135	BOTM WATER	12.00	12.00	4.80		621,622,625-627=<
05A	10/24/1974	1245	BOTM WATER	121.38	35.70	12.85	1.50	
05A	11/27/1974	1130	BOTM WATER	.90	.90	.32	2.00	
05A	12/17/1974	1040	BOTM WATER	213.40	51.04	51.04	.75	
10B	12/12/1973	1150	BOTM WATER		18.70	16.80	1.00	
10B	01/23/1974	1625	BOTM WATER	46.60	11.00	.99	1.75	
10B	03/20/1974	1020	BOTM WATER	1.40	1.30	1.30	.75	622,626=<
10B	05/02/1974	1000	BOTM WATER	1.48	1.33	1.33	1.25	622,626=<
10B	06/12/1974	1057	BOTM WATER	6.50	3.90	10.00	2.25	622,626=<
10B	07/09/1974	935	BOTM WATER	28.66	11.46	3.82	1.50	
10B	09/19/1974	930	BOTM WATER	66.66	15.38	12.30	1.25	622,626=<
10B	10/24/1974	1010	BOTM WATER	265.20	36.70	44.88	2.25	622,626=<
10B	11/27/1974	930	BOTM WATER	9.90	9.90	3.33	2.00	621-627=<
10B	12/17/1974	830	BOTM WATER	.63	.63	.45	1.25	
11A	12/12/1973	830	BOTM WATER		3.90	.76	1.50	
11A	01/23/1974	810	BOTM WATER	5.10	.48	.73	2.25	
11A	03/20/1974	755	BOTM WATER	19.40	1.10	1.10	.80	622,626=<
11A	05/02/1974	815	BOTM WATER	.16	.16	.16	.75	621,622,625,626=<
11A	06/12/1974	950	BOTM WATER	23.70	1.40	10.80	2.25	
11A	07/09/1974	825	BOTM WATER	89.10	3.64	54.54	1.90	622,626=<
11A	09/19/1974	800	BOTM WATER	52.99	4.33	221.62	1.25	622,626=<
11A	10/24/1974	800	BOTM WATER	11.30	2.89	2.60	2.00	
11A	11/27/1974	800	BOTM WATER	2.48	.90	.33	2.00	622,626=<
11A	12/17/1974	700	BOTM WATER	27.27	37.18	2.48	1.25	
01A	12/13/1973	1425	SED		1.88	6.20	.25	
01A	01/24/1974	1355	SED	140.40	18.40	49.70	.30	
01A	03/21/1974	1200	SED	36.60	2.10	8.50		622=<
01A	05/03/1974	1145	SED	3.78	.49	3.94	.80	
01A	06/13/1974	1350	SED	54.00	7.90	1.50	1.25	
01A	07/10/1974	1035	SED	5.10	1.00	.22	1.20	
01A	09/20/1974	1200	SED	4.41	4.41	.65	1.50	

STATION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	TOTAL COL MILL TVC NM C625	FAECAL COL MILL TVC NM C626	FAECAL STR MILL TVC NM C627	SECCHI DISC M C628	COMMENTS OF SAMPLE C629
**								
01A	12/18/1974	1230	SED	17.38	2.42	4.00	.25	
05A	12/13/1973	1040	SED		2.40	8.00	.60	622,623,626,627=<
05A	01/24/1974	1040	SED	38.18	10.79	15.10	.75	
05A	03/21/1974	830	SED	11.30	1.00	9.70	.30	
05A	05/03/1974	845	SED	19.71	19.71	65.70	.50	621-23,625-27=<
05A	06/13/1974	845	SED	63.50	57.15	190.50	1.25	622,623,626,627=<
05A	07/09/1974	1200	SED	16.20	16.20	54.00	.80	621,622,625,626=<
05A	09/19/1974	1135	SED	37.17	29.70	59.47		622,626=<
05A	10/24/1974	1245	SED	20.16	20.16	40.32	1.50	621,622,625,626=<
05A	11/27/1974	1130	SED	6.93	6.93	23.10	2.00	621-626=<
05A	12/17/1974	1040	SED	24.18	4.68	15.60	.75	622,626=<
10B	12/12/1973	1150	SED		4.73	18.90	1.00	622,626=<
10B	01/23/1974	1625	SED	7.80	7.04	28.20	1.75	622,626=<
10B	03/20/1974	1020	SED	.90	.90	30.80	.75	621,622,625,626=<
10B	05/02/1974	1000	SED	.88	.88	8.92	1.25	621,622,625,626=<
10B	06/12/1974	1057	SED	14.00	7.00	23.30	2.25	622,623,626,627=<
10B	07/09/1974	935	SED	10.03	1.06	3.54	1.50	622,623,626,627=<
10B	09/19/1974	930	SED	.61	.61	2.45	1.25	622,626=<
10B	10/24/1974	1010	SED	5.06	5.06	65.52	2.25	622,626=<
10B	11/27/1974	930	SED	7.47	7.47	24.90	2.00	621-626=<
10B	12/17/1974	830	SED	.80	.72	2.40	1.25	622,623,626,627=<
11A	12/12/1973	830	SED		.30	28.10	1.50	622,626=<
11A	01/23/1974	810	SED	4.00	1.40	1.85	2.25	623,627=<
11A	03/20/1974	755	SED	3.30	.80	19.20	.80	
11A	05/02/1974	815	SED	1.35	1.35	4.50	.75	621,622,625,626=<
11A	06/12/1974	950	SED	2.20	.20	3.90	2.25	622,626=<
11A	07/09/1974	825	SED	2.68	2.68	27.10	1.90	622,623,626,627=<
11A	09/19/1974	800	SED	32.40	6.41	42.72	1.25	
11A	10/24/1974	800	SED	3.87	3.87	12.90	2.00	621,622,625,626=<
11A	11/27/1974	800	SED	.08	.03	.44	2.00	622,626=<
11A	12/17/1974	700	SED	.68	.68	2.28	1.25	621-627=<
05A	03/21/1974	830	SURF WATER	75.90	2.70	1.00	.30	
10B	03/20/1974	1020	SURF WATER	5.20	.70	.30	.75	
11A	03/20/1974	755	SURF WATER	13.10	1.40	1.10	.80	622,626=<
01A	12/13/1973	1425	SUS SED		123.00	295.00	.30	623,627=>
01A	01/24/1974	1355	SUS SED	249.60	37.40	343.00	.30	621,623,627=>
01A	03/21/1974	1200	SUS SED	1100.00	680.00	60.00		623,627=<
01A	05/03/1974	1145	SUS SED	28.90	28.40	10.20	.80	
01A	06/13/1974	1350	SUS SED	26.80	24.20	1.80	1.25	622,623,626,627=<
01A	07/10/1974	1035	SUS SED	143.62	89.08	10.90	1.20	623,627=<
01A	09/20/1974	1200	SUS SED	.22	6.37	.58	1.50	623,627=<
01A	12/18/1974	1230	SUS SED					621,622=<
11A	12/12/1973	830	SUS SED		.22	.66	1.50	623,627=<
11A	01/23/1974	810	SUS SED	17.20	2.40	3.80	2.25	623,627=<
11A	03/20/1974	755	SUS SED	6.00	2.40	8.60	.80	622,623,626,627=<
11A	05/02/1974	815	SUS SED	8.40	7.60	25.20	.75	622,623,626,627=<
11A	06/12/1974	950	SUS SED	50.70	3.60	6.60	2.25	
11A	07/09/1974	825	SUS SED	1583.24	133.76	454.78	1.90	
11A	09/19/1974	800	SUS SED	31.90	3.19	155.98	1.25	622,627=<
11A	10/24/1974	800	SUS SED	33.34	30.00	100.00	2.00	622,626=<

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STAT ION C602	DATE MMDDYY C603	TIME HRS C604	TYPE OF SAMPLE C605	TOTAL COL MILL TVC NM C625	FAECAL COL MILL TVC NM C626	FAECAL STR MILL TVC NM C627	SECCHI DISC M C628	COMMENTS OF SAMPLE C629
**								
11A	11/27/1974	800	SUS SED	1.02	.38	97.90	2.00	622,626=<
11A	12/17/1974	700	SUS SED	5.94	1.21	.16	1.25	623,627=<

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	SMPG METH C704	DATE MM DD YY C705	TIME HRS C706	SURF TEMP C707	SURF SALN C708	SURF OXYG C709	SURF PH C710	DEPTH RANGE C711	BIOMAS MG"M3 C713	BIOM W MG"M3 C714	BIOM D MG"M3 C715	BI-ASH MG"M3 C716	A-FR O MG"M3 C717
**															
ZOOPLANKTN	1	11A	001	12/12/1973	1100	7.0	7.9	13.4		0.. 8	158.29	128.34	17.135	15.879	1.236
ZOOPLANKTN	2	10B	001	12/12/1973	1300	7.0	5.4	11.4		0..15	133.81	99.59	13.094	11.756	1.338
ZOOPLANKTN	3	05A	001	12/13/1973	1025	5.3	.1	12.5	7.5	0.. 7	110.66	80.32	9.501	.000	.000
ZOOPLANKTN	4	01A	001	12/13/1973	1410	4.5	.0	13.0	7.5	0..08	126.98	50.98	20.499	5.986	14.513
ZOOPLANKTN	5	09A	001	12/14/1973	1110	6.5	5.0		7.5	0..06	243.06	115.14	16.528	15.417	1.111
ZOOPLANKTN	6	08A	001	12/14/1973	1350	6.7	5.0		7.4	0..04	173.29	65.42	89.531	82.455	7.081
ZOOPLANKTN	7	07A	001	12/14/1973	1515	6.0	5.1		7.2	0..07	999.99	990.99	99.999	99.999	21.471
ZOOPLANKTN	8	09A	001	01/17/1974	928	2.5	2.4		7.5	0..07	121.56	118.06	15.651	13.751	1.809
ZOOPLANKTN	9	09B	001	01/17/1974	1037	2.0	2.4		7.5	0..11	491.68	434.73	66.786	61.050	5.736
ZOOPLANKTN	10	09C	001	01/17/1974	1132	2.0	1.8		7.5	0..05	109.16	248.42	41.637	37.739	3.899
ZOOPLANKTN	11	11A	001	01/23/1974	842	3.5	3.9	11.3	7.5	0..04	120.22	121.02	15.009	13.260	1.749
ZOOPLANKTN	12	11C	001	01/23/1974	1000	4.5	1.3		7.6	0..20	200.58	164.47	23.607	20.675	2.932
ZOOPLANKTN	13	07A	001	01/23/1974	1305	7.0	1.3		7.1	0..04	467.11	476.93	59.601	53.806	5.795
ZOOPLANKTN	14	10B	001	01/23/1974	1635	5.0	1.7	12.7	7.5	0..10	69.26	59.70	8.797	7.273	1.524
ZOOPLANKTN	15	08B	001	01/24/1974	925	3.0	1.2		7.4	0..08	36.23	39.41	5.631	11.094	-5.463
ZOOPLANKTN	16	05A	001	01/24/1974	1100	2.5	1.6	13.3	7.3	0..06	14.34	11.89	1.706	1.276	.430
ZOOPLANKTN	17	01A	001	01/24/1974	1400	2.7	.0			0..24	123.84	137.09	47.183	17.833	29.350
ZOOPLANKTN	18	03B	001	01/24/1974	1610	3.5	.2		7.5	0..09	38.43	33.97	7.480	4.228	3.252
ZOOPLANKTN	19	05B	001	01/24/1974	1655	2.5	.1		7.4	0..07	8.09	7.91	.956	.706	.250
ZOOPLANKTN	20	08C	001	01/24/1974	1745	2.5	.9		7.5	0..06	26.32	21.28	2.807	1.028	1.780
ZOOPLANKTN	21	07A	001	03/19/1974	1105	7.0			7.3	0..09	877.91	838.90	97.546	90.474	7.072
ZOOPLANKTN	22	11D	001	03/19/1974	1413	7.0			7.7	0..05	999.99	999.99	99.999	99.999	-2.138
ZOOPLANKTN	23	11A	001	03/20/1974	820	6.0	5.6	12.4	7.6	0..04	479.93	492.85	67.559	60.545	7.014
ZOOPLANKTN	24	11C	001	03/20/1974	945	6.0			7.6	0..16	999.99	999.99	99.999	99.999	8.901
ZOOPLANKTN	25	10B	001	03/20/1974	1110	6.5	4.2	12.2	7.5	0..09	290.49	284.39	38.635	37.473	1.162
ZOOPLANKTN	26	08C	001	03/20/1974	1200	6.5			7.6	0..08	899.76	999.99	99.999	99.999	13.301
ZOOPLANKTN	27	08B	001	03/20/1974	1215	6.5			7.5	0..05	371.88	349.33	40.442	33.469	6.973
ZOOPLANKTN	28	05A	001	03/21/1974	845	6.0	.5	12.6	7.3	0..04	97.56	84.93	9.073	7.659	1.415
ZOOPLANKTN	29	01A	001	03/21/1974	1310	7.0	.0	11.6	7.4	0..06	18.30	21.13	2.745	1.372	1.372
ZOOPLANKTN	30	03B	001	03/21/1974	1430	7.2			7.2	0..05	33.83	29.21	6.653	5.300	1.353
ZOOPLANKTN	31	05B	001	03/21/1974	1515	7.1			7.3	0..05	433.18	365.05	40.955	34.851	6.104
ZOOPLANKTN	32	07B	001	05/01/1974	850	17.5	3.8	8.2	7.3	0-- 9	97.72	55.70	8.404	5.537	2.867
ZOOPLANKTN	33	11D	001	05/01/1974	1340	17.2	8.5	8.8	7.9	0--06	198.90	86.41	12.155	10.387	1.768
ZOOPLANKTN	34	11C	001	05/02/1974	755	13.5	7.2	9.2	7.7	0--24	18.52	9.11	1.148	.889	.259
ZOOPLANKTN	35	11A	001	05/02/1974	830	15.0	6.4	9.6	7.8	0--06	25.71	7.56	.771	.000	
ZOOPLANKTN	36	10B	001	05/02/1974	954	14.9	6.2	9.7	8.0	0--12	6.05	1.60	.182	.000	
ZOOPLANKTN	37	08C	001	05/02/1974	1110	14.9	4.2	8.6	7.6	0--10	6.70	.80	.067	.045	.022
ZOOPLANKTN	38	08B	001	05/02/1974	1152	15.0	3.2	8.5	7.5	0--05	9.02	1.92	.195	.165	.030
ZOOPLANKTN	39	05A	001	05/03/1974	825	15.0	1.6	8.6	7.5	0--04	32.29	15.71	1.758	1.327	.431
ZOOPLANKTN	40	03B	001	05/03/1974	1010	16.7	1.4		7.5	0--03	55.08	62.38	7.573	6.678	.895
ZOOPLANKTN	41	01A	001	05/03/1974	1200	16.0	.0	9.9		0--05	28.57	11.81	1.810	.667	1.143
ZOOPLANKTN	42	05B	001	05/03/1974	1430	17.3				0--03	16.50	22.14	2.680	1.938	.742
ZOOPLANKTN	43	07B	001	06/11/1974	835	24.3	6.6	7.8	7.7	0--09	16.78	11.75	2.005	1.571	.435
ZOOPLANKTN	44	07A	001	06/11/1974	1033						55.46	36.81	6.655	6.586	.069
ZOOPLANKTN	45	11D	001	06/11/1974	1325	23.7	8.4	7.8	7.7	0--04	10.59	4.21	.503	.529	
ZOOPLANKTN	46	11C	001	06/12/1974	800	22.5	5.8	8.3	7.7	0--09	3.31	1.57	.133	.199	
ZOOPLANKTN	47	11A	001	06/12/1974	854	22.5	5.7	9.1	7.7	0--10	7.60	2.26	.361	.285	.076
ZOOPLANKTN	48	10B	001	06/12/1974	953	24.0	5.2	7.8	7.7	0--10	49.13	20.49	.532	.450	.082
ZOOPLANKTN	49	08C	001	06/12/1974	1120	22.5	4.4	9.2	7.7	0--09	13.36	4.14	.267	.172	.095
ZOOPLANKTN	50	08B	001	06/12/1974	1225	22.7	4.5	8.0	7.7	0--06	26.82	4.34	.760	.804	

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	SMPG METH C704	DATE MM DD YY C705	TIME HRS C706	SURF TEMP C707	SURF SALN C708	SURF OXYG C709	SURF PH C710	DEPTH RANGE C711	BIOMAS MG"M3 C713	BIOM W MG"M3 C714	BIOM D MG"M3 C715	BI-ASH MG"M3 C716	A-FR D MG"M3 C717
**															
ZOOPLANKTN	51	05B	001	06/13/1974	820						8.60	1.91	.237	.495	
ZOOPLANKTN	52	05A	001	06/13/1974	840	22.1	3.4	7.1	7.6	0--09	8.19	.96	.143	.287	
ZOOPLANKTN	53	03B	001	06/13/1974	1050						20.88	8.52	1.211	1.044	.167
ZOOPLANKTN	54	01A	001	06/13/1974	1346	29.5	.0	8.4		0--10	29.94	55.39	3.952	3.772	.180
ZOOPLANKTN	55	07B	001	07/08/1974	835	27.1		6.3	7.7	0--09	19.36	8.03	1.710	1.355	.355
ZOOPLANKTN	56	11D	001	07/08/1974	1400	28.0	9.4	8.1	7.6	0--10	147.74	133.04	14.848	13.149	1.699
ZOOPLANKTN	57	11C	001	07/09/1974	800						60.91	52.26	6.010	5.523	.487
ZOOPLANKTN	58	11A	001	07/09/1974	825	25.2	8.7	8.4	7.7	0--06	36.24	36.24	4.983	4.439	.544
ZOOPLANKTN	59	10B	001	07/09/1974	940	25.4	5.6	7.7	7.6	0--06	8.31	10.14	1.591	1.473	.119
ZOOPLANKTN	60	08C	001	07/09/1974	1040					0..05	8.90	4.89	.645	.556	.089
ZOOPLANKTN	61	05A	001	07/09/1974	1140	26.5	4.2	6.4	7.7	0--06	58.21	48.07	6.154	5.988	.166
ZOOPLANKTN	62	03B	001	07/10/1974	845					0..06	2.37	1.30	.284	.190	.095
ZOOPLANKTN	63	01A	001	07/10/1974	1145	27.6	.0	7.8	7.7	0--04	29.23	14.45	1.127	1.002	.125
ZOOPLANKTN	64	11D	001	09/18/1974	915	26.5	12.3	5.6	7.9	00..08	530.19	438.53	45.479	40.530	4.949
ZOOPLANKTN	65	07B	001	09/18/1974	1355	24.5	8.5	3.1	7.0	00..09	28.20	16.18	2.690	2.213	.477
ZOOPLANKTN	66	11A	001	09/19/1974	800	23.1	10.5	6.2	7.5	00..05	41.67	54.17	8.281	7.656	.625
ZOOPLANKTN	67	11C	001	09/19/1974	900	23.1	10.5	5.4	7.4		62.50	49.97	5.987	5.428	.559
ZOOPLANKTN	68	10B	001	09/19/1974	937	23.1	9.5	5.9	7.4	00..12	15.87	12.01	.688	.635	.053
ZOOPLANKTN	69	08C	001	09/19/1974	1033	23.0	9.5	7.3	8.0	00..08	32.79	11.80	.656	.749	-0.094
ZOOPLANKTN	70	05A	001	09/19/1974	1215	23.5	4.8	6.0	7.4	00..08	23.77	22.27	2.523	2.450	.073
ZOOPLANKTN	71	01A	001	09/20/1974	1047	23.3	.0	8.8		00..16	50.76	42.79	3.655	3.452	.203
ZOOPLANKTN	72	03B	001	09/20/1974	1315						205.48	151.10	20.411	19.726	.685
ZOOPLANKTN	73	11A	001	10/24/1974	800	13.4	10.8	10.7	8.0	00..10	4.16	2.50	4.719	.249	4.470
ZOOPLANKTN	74	11C	001	10/24/1974	930					00..27	11.43	11.03	6.657	.549	6.109
ZOOPLANKTN	75	10B	001	10/24/1974	1010	13.1	10.3	11.0	8.3	00..13	4.20	3.94	2.319	.092	2.227
ZOOPLANKTN	76	08C	001	10/24/1974	1130					00..11	9.93	6.86	2.316	.143	2.173
ZOOPLANKTN	77	05B	001	10/24/1974	1225					0..11	10.42	6.34	2.777	.365	2.413
ZOOPLANKTN	78	05A	001	10/24/1974	1250	13.0	5.1	10.5	7.8	00..09	22.32	12.38	4.605	1.141	3.464
ZOOPLANKTN	79	03B	001	11/25/1974	1140					00..11	28.53	21.21	6.732	2.209	4.523
ZOOPLANKTN	80	001	001	11/25/1974	1020	12.0	.5	5.3	7.9	00..03	264.90	205.30	50.596	20.662	29.934
ZOOPLANKTN	81	002	001	11/25/1974	1155	10.0	1.0	3.5	8.2	00..08	468.57	400.46	82.743	46.400	36.343
ZOOPLANKTN	82	003	001	11/25/1974		9.0	.9	3.3	8.2	00..09					
ZOOPLANKTN	83	005	001	11/25/1974	1515	9.0	.6	4.0	8.8	00..05	22.51	11.07	6.567	1.726	4.841
ZOOPLANKTN	84	11A	001	11/27/1974	715	7.6	12.3	7.0	7.4	00..09	24.34	16.71	5.139	1.893	3.246
ZOOPLANKTN	85	11C	001	11/27/1974						00..21	66.80	51.48	11.818	6.063	5.755
ZOOPLANKTN	86	10B	001	11/27/1974	925	6.8	10.4	7.5	7.6	00..12	64.39	46.36	14.318	5.985	8.333
ZOOPLANKTN	87	05A	001	11/27/1974	1140	6.8	3.9	7.4	7.6	00..09	62.50	47.19	13.750	5.078	8.672
ZOOPLANKTN	88	08B	001	11/27/1974	1330					00..05	144.62	94.26	26.952	98.340	
ZOOPLANKTN	89	11A	001	12/17/1974	700	5.5	7.2	5.9	8.0	00..08	166.30	136.48	31.952	17.663	14.290
ZOOPLANKTN	90	11C	001	12/17/1974	800					00..23	223.21	194.78	37.032	20.637	16.396
ZOOPLANKTN	91	10B	001	12/17/1974	830	4.8	4.7	6.1	7.7	00..15	46.55	50.26	14.625	5.558	9.067
ZOOPLANKTN	92	08C	001	12/17/1974	940					00..11	51.81	45.08	9.261	5.729	3.532
ZOOPLANKTN	93	05A	001	12/17/1974	1035	4.7	2.5	6.4	7.7	00..10	48.29	30.11	7.710	3.927	3.782
ZOOPLANKTN	94	03B	001	12/18/1974		4.3	2.8	6.4	7.6	00..08	3.63	2.86	2.421	.446	1.975
ZOOPLANKTN	95	01A	001	12/18/1974	1210	3.5	.7	6.7	7.5	00..10	20.39	17.26	9.002	2.880	6.122

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
ZOOPLANKTN	1	11A	12/12/1973			COPEPOD	ACARTIA TONSA	3716.08	94.85	1
						COPEPOD	EURYTEMORA AFFINIS	31.26	.80	2
						COPEPOD	CYCLOPOID NAUPLII	.50	.01	3
						COPEPOD	OITHONA BREVICORNIS	.10	.00	4
						CLADOCERA	PODON LEUCARTI	136.93	3.50	5
						CLADOCERA	PODON EPHIPPIAL EGGS	.15	.00	6
						BARNACLE	BARNACLE NAUPLII	5.13	.13	7
						BRYOZOA	BRYOZOAN FLOATOBLAST	.10	.00	8
						GASTROPOD	SNAIL	.05	.00	9
						MOLLUSK	CLAM LARVAE PELECYPD	.05	.00	10
						MYSID	NEOMYSIS	.05	.00	11
						OSTRACOD	OSTRACOD	.10	.00	12
						OSTRACOD	PRIONOCYPRIS LONGFMA	.70	.02	13
						POLYCHAETE	POLYCHAETE LARVAE	26.43	.67	14
						ROTIFER	ROTIFER	.15	.00	15
						PLANT	OAK LEAF HAIRS	.05	.00	16
						PLANT	UNKNOWN	.05	.00	17
						DEBRIS	INORGANIC SLAG			18
ZOOPLANKTN	2	108	12/12/1973			COPEPOD	ACARTIA TONSA	2577.78	48.48	1
						COPEPOD	EURYTEMORA AFFINIS	103.23	1.94	2
						COPEPOD	ERGASILUS CHAUTAUQNS	.10	.00	3
						COPEPOD	CYCLOPOID A	.29	.01	4
						COPEPOD	HALICYCLOPS B	.10	.00	5
						COPEPOD	CYCLOPOID D	.48	.01	6
						COPEPOD	CYCLOPOID NAUPLII	1.91	.04	7
						CLADOCERA	PODON LEUCARTI	1630.59	30.67	8
						CLADOCERA	PODON EPHIPPIAL EGGS	.19	.00	9
						BARNACLE	BARNACLE NAUPLII	1.72	.03	10
						BRYOZOA	BRYOZOAN FLOATOBLAST	.10	.00	11
						OSTRACOD	PRIONOCYPRIS LONGFMA	.96	.02	12
						POLYCHAETE	POLYCHAETE LARVAE	999.76	18.80	13
						ROTIFER	ROTIFER	.19	.00	14
ZOOPLANKTN	3	05A	12/13/1973			COPEPOD	ACARTIA TONSA	36.71	3.07	1
						COPEPOD	EURYTEMORA AFFINIS	1071.52	89.48	2
						COPEPOD	CYCLOPOID A	3.18	.27	3
						COPEPOD	HALICYCLOPS B	.43	.04	4
						COPEPOD	CYCLOPOID C	1.94	.16	5
						COPEPOD	CYCLOPOID NAUPLII	15.82	1.32	6
						COPEPOD	ERGASILUS CHAUTAUQNS	.11	.01	7
						COPEPOD	OITHONA BREVICORNIS	.11	.01	8
						COPEPOD	ROBERTSONIA CHESAPEK	.97	.08	9
						CLADOCERA	ALONA RECTANGULA	.32	.03	10
						CLADOCERA	BOSMINA LONGIROSTRIS	7.94	.66	11
						CLADOCERA	CHYDORUS SPHAERICUS	.11	.01	12
						CLADOCERA	DAPHNIA	2.65	.22	13
						CLADOCERA	EPHIPPIAL EGGS	.27	.02	14
						CLADOCERA	ILYOCRYPTUS SPINIFER	.05	.00	15
						CLADOCERA	PODON LEUCARTI	.76	.06	16
						CLADOCERA	PODON EPHIPPIAL EGGS	.11	.01	17
						BRYOZOA	BRYOZOAN FLOATOBLAST	1.78	.15	18

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						MYSID	NEOMYSIS	.11	.01	19
						OSTRACOD	PRIONOCYPRIS LONGEMA	.22	.02	20
						POLYCHAETE	POLYCHAETE LARVAE	51.28	4.28	21
						ROTIFER	ROTIFER	.86	.07	22
						FEATHER	FEATHER	.05	.00	23
						PLANT	OAK LEAF HAIRS	.16	.01	24
						DEBRIS	ORGANIC			25
ZOOPLANKTN	4	01A	12/13/1973			COPEPOD	ACARTIA TONSA	4.72	.91	1
						COPEPOD	EURYTEMORA AFFINIS	19.95	3.86	2
						COPEPOD	CYCLOPOID A	4.35	.85	3
						COPEPOD	HALICYCLOPS B	1.63	.31	4
						COPEPOD	CYCLOPOID C	2.90	.56	5
						COPEPOD	EUCYCLOPS F	3.27	.63	6
						COPEPOD	CYCLOPS VERNALIS G	.91	.18	7
						COPEPOD	CYCLOPOID NAUPLII	8.16	1.58	8
						COPEPOD	OITHONA BREVICORNIS	1.27	.25	9
						CLADOCERA	ALONA AFFINIS	.36	.07	10
						CLADOCERA	ALONA QUADRANGULARIS	1.09	.21	11
						CLADOCERA	ALONA RECTANGULA	1.27	.25	12
						CLADOCERA	BOSMINA COREGONI	2.00	.39	13
						CLADOCERA	BOSMINA LONGIROSTRIS	31.38	6.06	14
						CLADOCERA	CHYDORUS SPHAERICUS	11.61	2.24	15
						CLADOCERA	DAPHNIA	2.90	.56	16
						CLADOCERA	EPHIPPIAL EGGS	1.63	.31	17
						CLADOCERA	ILYOCRYPTUS SPINIFER	15.06	2.91	18
						CLADOCERA	LEYDIGIA ANTHROCERCS	1.63	.31	19
						CLADOCERA	LEYDIGIA QUADRANGULS	12.70	2.45	20
						CLADOCERA	PLEUROXUS DENTICULAT	.36	.07	21
						CLADOCERA	PODON EPHIPPIAL EGG	.54	.10	22
						BRYOZOA	FLOATOBLAST	21.22	4.10	23
						BRYOZOA	FLOATOBLAST LARGE	1.27	.25	24
						DIATOM	CHAINS	299.32	57.84	25
						GASTROPOD	SNAIL	.18	.03	26
						HYDROID	HYDROID	3.81	.74	27
						INSECT	DIPTERID LARVAE	.54	.10	28
						INSECT	INSECT	.36	.07	29
						INSECT	UNKNOWN CRUSTACEAN	.54	.10	30
						POLYCHAETE	POLYCHAETE LARVAE	2.18	.42	31
						RHIZOPOD	DIFFLUGIA LEBES	2.00	.39	32
						RHIZOPOD	DIFFLUGIA URCEOLATA	6.17	1.19	33
						RHIZOPOD	CENTROPYXIS ACULEATA	28.66	5.54	34
						ROTIFER	ROTIFER	15.24	2.94	35
						PLANT	OAK LEAF HAIRS	21.41	4.14	36
						DEBRIS	ORGANIC MASSIVE AMT			37
ZOOPLANKTN	5	09A	12/14/1973							
ZOOPLANKTN	6	08A	12/14/1973							
ZOOPLANKTN	7	07A	12/14/1973							
ZOOPLANKTN	8	09A	01/17/1974							
ZOOPLANKTN	9	09B	01/17/1974							
ZOOPLANKTN	10	09C	01/17/1974							

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
ZOOPLANKTN	11	11A	01/23/1974			COPEPOD	ACARTIA TONSA	1585.43	44.86	1
						COPEPOD	EURYTEMORA AFFINIS	1814.21	51.33	2
						COPEPOD	CALANOID NAUPLII	.07	.00	3
						COPEPOD	CYCLOPOID A	.07	.00	4
						COPEPOD	CYCLOPOID C	.15	.00	5
						COPEPOD	CYCLOPOID NAUPLII	.44	.01	6
						COPEPOD	HARPACTICOID B	.51	.01	7
						COPEPOD	HARPACTICOID D	.07	.00	8
						COPEPOD	OITHONA BREVICORNIS	.15	.00	9
						CLADOCERA	PODON LEUCARTI	115.85	3.28	10
						CLADOCERA	EPHIPPIAL EGGS	.07	.00	11
						BARNACLE	BARNACLE NAUPLII	2.11	.06	12
						BRYOZOA	FLOATOBLAST	.07	.00	13
						OSTRACOD	OSTRACOD	.15	.00	14
						OSTRACOD	PRIONOCYPRIS LONGEMA	.07	.00	15
						POLYCHAETE	POLYCHAETE LARVAE	14.35	.41	16
						RHIZOPOD	DIFFLUGIA LOBOSTOMA	.22	.01	17
						PLANT	OAK LEAF HAIRS	.44	.01	18
ZOOPLANKTN	12	11C	01/23/1974			COPEPOD	ACARTIA TONSA	3150.63	51.96	1
						COPEPOD	EURYTEMORA AFFINIS	1498.17	24.71	2
						COPEPOD	HARPACTICOID B	.93	.02	3
						COPEPOD	CYCLOPOID NAUPLII	2.78	.05	4
						CLADOCERA	PODON LEUCARTI	1249.76	20.61	5
						BARNACLE	BARNACLE NAUPLII	40.12	.66	6
						FISH	FISH LARVAE	.15	.00	7
						OSTRACOD	OSTRACOD	.15	.00	8
						OSTRACOD	PRIONOCYPRIS LONGEMA	.15	.00	9
						POLYCHAETE	POLYCHAETE LARVAE	117.11	1.93	10
						UNKNOWN	UNKNOWN	.15	.00	11
						PLANT	OAK LEAF HAIRS	3.39	.06	12
ZOOPLANKTN	13	07A	01/23/1974			COPEPOD	ACARTIA TONSA	383.72	20.90	1
ZOOPLANKTN	14	10B	01/23/1974			COPEPOD	EURYTEMORA AFFINIS	1405.37	76.54	2
						COPEPOD	CYCLOPOID C	.42	.02	3
						COPEPOD	EUCYCLOPS F	.42	.02	4
						COPEPOD	CYCLOPOID NAUPLII	1.32	.07	5
						COPEPOD	HARPACTICOID B	.28	.02	6
						COPEPOD	HARPACTICOID D	.14	.01	7
						CLADOCERA	CHYDORUS SPHAERICUS	.07	.00	8
						CLADOCERA	PODON LEUCARTI	33.25	1.81	9
						BARNACLE	BARNACLE NAUPLII	.83	.05	10
						BRYOZOA	FLOATOBLAST	.69	.04	11
						POLYCHAETE	POLYCHAETE LARVAE	8.59	.47	12
						RHIZOPOD	DIFFLUGIA LOBOSTOMA	.28	.02	13
						RHIZOPOD	DIFFLUGIA URCEOLATA	.07	.00	14
						ROTIFER	ROTIFER	.07	.00	15
						PLANT	OAK LEAF HAIRS	.55	.03	16
ZOOPLANKTN	15	08B	01/24/1974							
ZOOPLANKTN	16	05A	01/24/1974							
ZOOPLANKTN	17	01A	01/24/1974							

SAMPLE TYPE C701	SAMP NUMB C703	STATION C702	DATE MM DD YY C705	TOTAL-LIP MGUM3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SPO NUMB C730
**										
ZOOPLANKTN	18	03B	01/24/1974							
ZOOPLANKTN	19	05B	01/24/1974		15.20					
ZOOPLANKTN	20	08C	01/24/1974							
ZOOPLANKTN	21	07A	03/19/1974		17.20	COPEPOD	ACARTIA TONSA	307.27	1.76	1
						COPEPOD	EURYTEMORA AFFINIS	17077.88	97.81	2
						COPEPOD	CYCLOPOID A	5.61	.03	3
						COPEPOD	HALICYCLOPS B	4.15	.02	4
						COPEPOD	HARPACTICOID A	3.17	.02	5
						COPEPOD	HARPACTICOID B	53.89	.31	6
						BARNACLE	BARNACLE NAUPLII	.24	.00	7
						CLADOCERA	BOSMINA LONGIROSTRIS	.24	.00	8
						CLADOCERA	PODON LEUCARTI	5.12	.03	9
						ANNELID	ANNELID UNKNOWN	.24	.00	10
						MYSID	MYSID UNKNOWN	.24	.00	11
						POLYCHAETE	POLYCHAETE LARVAE	1.22	.01	12
						ALGAE	CLOSTERIUM	.24	.00	13
						PLANT	OAK LEAF HAIRS	.49	.00	14
ZOOPLANKTN	22	11D	03/19/1974		15.62	COPEPOD	ACARTIA TONSA	10538.69	19.52	1
						COPEPOD	EURYTEMORA AFFINIS	42945.70	79.56	2
						COPEPOD	HARPACTICOID B	4.28	.01	3
						CLADOCERA	EVADNE	1.07	.00	4
						CLADOCERA	PODON LEUCARTI	366.60	.68	5
						BARNACLE	BARNACLE NAUPLII	98.33	.18	6
						FISH	FISH EGG	21.38	.04	7
						POLYCHAETE	POLYCHAETE LARVAE	4.28	.01	8
ZOOPLANKTN	23	11A	03/20/1974		14.80	COPEPOD	EURYTEMORA AFFINIS	8125.52	74.21	1
						COPEPOD	ACARTIA TONSA	2624.83	23.97	2
						COPEPOD	HARPACTICOID B	1.11	.01	3
						COPEPOD	CYCLOPOID A	.37	.00	4
						BARNACLE	NAUPLII	12.92	.12	5
						CLADOCERA	PODON	181.63	1.66	6
						CLADOCERA	DAPHNIA	.37	.00	7
						POLYCHAETE	POLYCHAETE LARVAE	2.58	.02	8
ZOOPLANKTN	24	11C	03/20/1974		51.10	COPEPOD	ACARTIA TONSA	15972.18	73.73	1
						COPEPOD	EURYTEMORA AFFINIS	5507.65	25.43	2
						COPEPOD	HARPACTICOID B	2.23	.01	3
						COPEPOD	HARPACTICOID D	2.23	.01	4
						CLADOCERA	PODON	85.12	.39	5
						BARNACLE	BARNACLE NAUPLII	74.55	.34	6
						FISH	FISH EGG	5.56	.03	7
						POLYCHAETE	POLYCHAETE LARVAE	12.24	.03	8
ZOOPLANKTN	25	10B	03/20/1974		16.66	COPEPOD	ACARTIA TONSA	946.99	14.41	1
						COPEPOD	EURYTEMORA AFFINIS	5587.51	85.01	2
						COPEPOD	CYCLOPOID A	.58	.01	3
						COPEPOD	CYCLOPOID IMMATURES	.58	.01	4
						COPEPOD	HARPACTICOID B	1.16	.02	5
						COPEPOD	HARPACTICOID D	.29	.00	6
						COPEPOD	NAUPLII	3.92	.06	7
						CLADOCERA	PODON LEUCARTI	31.08	.47	8
						CLADOCERA	ALLONELLA	.15	.00	9

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						POLYCHAETE	POLYCHAETE LARVAE	.15	.00	10
						FISH	FISH EGG	.15	.00	11
						PLANT	OAK LEAF HAIRS	.29	.00	12
ZOOPLANKTN	26	08C	03/20/1974		12.63	COPEPOD	ACARTIA TONSA	6971.15	36.31	1
						COPEPOD	EURYTEMORA AFFINIS	12189.73	63.49	2
						COPEPOD	CYCLOPOID NAUPLII	3.91	.02	3
						CLADOCERA	PODON LEUCARTI	25.04	.13	4
						ARTHROPOD	ARTHROPOD UNKNOWN	2.35	.01	5
						BARNACLE	BARNACLE NAUPLII	5.48	.03	6
						OSTRACOD	OSTRACOD	.78	.00	7
						POLYCHAETE	POLYCHAETE LARVAE	.78	.00	8
						PLANT	OAK LEAF HAIR	.78	.00	9
ZOOPLANKTN	27	08B	03/20/1974		11.06	COPEPOD	ACARTIA TONSA	457.87	7.01	1
						COPEPOD	EURYTEMORA AFFINIS	6022.08	92.25	2
						COPEPOD	CYCLOPOID A	3.02	.05	3
						COPEPOD	CYCLOPOID NAUPLII	3.26	.05	4
						COPEPOD	HARPACTICOID B	2.32	.04	5
						COPEPOD	HARPACTICOID D	.46	.01	6
						CLADOCERA	BOSMINA LONGIROSTRIS	.23	.00	7
						CLADOCERA	DAPHNIA	.23	.00	8
						CLADOCERA	PODON LEUCARTI	13.95	.21	9
						BARNACLE	BARNACLE NAUPLII	.70	.01	10
						OSTRACOD	PRIONOCYPRIS LONGFMA	.46	.01	11
						POLYCHAETE	POLYCHAETE LARVAE	.23	.00	12
						ROTIFER	ROTIFER	.46	.01	13
						PLANT	OAK LEAF HAIRS	.23	.00	14
ZOOPLANKTN	28	05A	03/21/1974		7.60	COPEPOD	ACARTIA TONSA	4.98	.35	1
						COPEPOD	EURYTEMORA AFFINIS	1405.85	98.16	2
						COPEPOD	CYCLOPOID A	6.05	.42	3
						COPEPOD	IMMATURE CYCLOPOIDS	8.93	.62	4
						COPEPOD	HALICYCLOPS B	.15	.01	5
						COPEPOD	HARPACTIOID B	.88	.06	6
						COPEPOD	HARPACTICOID D	.05	.00	7
						CLADOCERA	BOSMINA LONGIROSTRIS	1.90	.13	8
						CLADOCERA	DAPHNIA	1.66	.11	9
						CLADOCERA	PODON LEUCARTI	.05	.00	10
						CLADOCERA	EPHIPPIAL EGGS	.20	.01	11
						POLYCHAETE	POLYCHAETE LARVAE	.05	.00	12
						INSECT	INSECT	.05	.00	13
						INSECT	DIPTERID LARVAE	.05	.00	14
						ROTIFER	ROTIFER	.29	.02	15
						BRYOZOA	BRYOZOAN FLOATOBLAST	.88	.06	16
						BRYOZOA	BRYOZOAN STATOBLAST	.05	.00	17
						PLANT	GLOBULAR SEED	.05	.00	18
						PLANT	3 SIDED SEED	.05	.00	19
						PLANT	OAK LEAF HAIRS	.15	.01	20
ZOOPLANKTN	29	01A	03/21/1974		6.80	COPEPOD	ACARTIA TONSA	.37	.49	1
						COPEPOD	EURYTEMORA AFFINIS	60.38	80.78	2
						COPEPOD	CYCLOPOID	2.20	2.94	3
						COPEPOD	HALICYCLOPS B	1.65	2.20	4

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG/M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						COPEPOD	CYCLOPOID C	.09	.12	5
						COPEPOD	EUCYCLOPS	.73	.98	6
						COPEPOD	IMMATURE CYCLOPOIDS	2.56	3.42	7
						COPEPOD	CALANOID NAUPLII	.09	.12	8
						CLADOCERA	BOSMINA LONGIROSTRIS	3.57	4.78	9
						CLADOCERA	DAPHNIA	.09	.12	10
						ANNELID	ANNELID	1.10	1.47	11
						INSECT	INSECT	.09	.12	12
						OSTRACOD	OSTRACOD	.27	.36	13
						TARDIGRADE	TARDIGRADE	.09	.12	14
						ROTIFER	ROTIFER	.46	.62	15
						PLANT	OAK LEAF HAIRS	1.01	1.35	16
						DEBRIS	ORGANIC			17
ZOOPLANKTN	30	03B	03/21/1974		6.10					
ZOOPLANKTN	31	05B	03/21/1974		12.60					
ZOOPLANKTN	32	07B	05/01/1974			COPEPOD	ACARTIA TONSA	.72	.02	1
						COPEPOD	EURYTEMORA AFFINIS	1893.16	44.42	2
						COPEPOD	CYCLOPOID A	.26	.01	3
						COPEPOD	HALICYCLOPS B	2.02	.05	4
						COPEPOD	CYCLOPOID NAUPLII	17.46	.41	5
						COPEPOD	HARPACTICOID A	.39	.01	6
						COPEPOD	HARPACTICOID D	.07	.00	7
						COPEPOD	ERGASILUS CHAUTAUQNS	.26	.01	8
						COPEPOD	CALANOID NAUPLII	.13	.00	9
						CLADOCERA	BOSMINA LONGIROSTRIS	.07	.00	10
						ANNELID	ANNELID	.07	.00	11
						BRYOZOA	BRYOZOAN FLOATOBLAST	1.04	.02	12
						INSECT	INSECT	.13	.00	13
						OSTRACOD	PRIONOCYPRIS LONGEMA	.07	.00	14
						ROTIFER	ROTIFER	.59	.01	15
						PLANT	OAK LEAF HAIRS	2345.28	55.03	16
ZOOPLANKTN	33	11D	05/01/1974		4.41					
ZOOPLANKTN	34	11C	05/02/1974		22.30					
ZOOPLANKTN	35	11A	05/02/1974			COPEPOD	ACARTIA TONSA	56.56	8.28	1
						COPEPOD	EURYTEMORA AFFINIS	34.45	5.04	2
						COPEPOD	IMMATURE CYCLOPOIDS	.46	.07	3
						CLADOCERA	BOSMINA LONGIROSTRIS	.10	.02	4
						CLADOCERA	DAPHNIA	.20	.03	5
						CLADOCERA	PODON	35.99	5.27	6
						BARNACLE	NAUPLII	22.26	3.26	7
						CRUSTACEAN	UNKNOWN LARVAE	.05	.01	8
						OSTRACOD	OSTRACOD	2.42	.35	9
						POLYCHAETE	POLYCHAETE LARVAE	2.83	.41	10
						SPIDER	SPIDER	.05	.01	11
						PLANT	OAK LEAF HAIRS	528.02	77.26	12
ZOOPLANKTN	36	10B	05/02/1974		25.60	COPEPOD	ACARTIA TONSA	36.01	7.54	1
						COPEPOD	EURYTEMORA AFFINIS	25.42	5.32	2
						COPEPOD	CYCLOPOID A	.06	.01	3
						COPEPOD	CYCLOPS X	.03	.01	4
						COPEPOD	CYCLOPOID IMMATURES	.33	.07	5

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPF C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						COPEPOD	ERGASILUS CHAUTAUQNS	.09	.02	6
						CLADOCERA	BOSMINA LONGIROSTRIS	.03	.01	7
						CLADOCERA	DAPHNIA	.03	.01	8
						CLADOCERA	PODON LEUCARTI	3.36	.70	9
						BARNACLE	BARNACLE NAUPLII	51.13	10.70	10
						POLYCHAETE	POLYCHAETE LARVAE	.45	.09	11
						OSTRACOD	OSTRACOD	.91	.19	12
						SPIDER	SPIDER	.06	.01	13
						CRUSTACEAN	UNKNOWN CRUSTACEAN	.03	.01	14
						PLANT	OAK LEAF HAIRS	359.76	75.31	15
ZOOPLANKTN	37	08C	05/02/1974		21.90					
ZOOPLANKTN	38	08B	05/02/1974		15.52					
ZOOPLANKTN	39	05A	05/03/1974		25.56	COPEPOD	ACARTIA TONSA	34.44	2.71	1
						COPEPOD	EURYTEMORA AFFINIS	245.74	19.31	2
						COPEPOD	CYCLOPOID A	6.13	.48	3
						COPEPOD	CYCLOPOID C	1.33	.10	4
						COPEPOD	IMMATURE CYCLOPOIDS	37.67	2.96	5
						COPEPOD	HALICYCLOPS B	.22	.02	6
						COPEPOD	HARPACTICOID A	.04	.00	7
						COPEPOD	HARPACTICOID B	.36	.03	8
						COPEPOD	HARPACTICOID D	.07	.01	9
						COPEPOD	ERGASILUS CHAUTAUQNS	1.18	.10	10
						CLADOCERA	BOSMINA LONGIROSTRIS	330.04	25.94	11
						CLADOCERA	CHYDORUS SPHAERICUS	.04	.00	12
						CLADOCERA	DAPHNIA	226.01	17.76	13
						CLADOCERA	PODON LEUCARTI	.07	.01	14
						CLADOCERA	EPHIPPIAL EGGS MOINA	.07	.01	15
						BARNACLE	BARNACLE NAUPLII	.36	.03	16
						OSTRACOD	OSTRACOD	.07	.01	17
						OSTRACOD	PRIONOCYPRIS LONGEMA	.04	.00	18
						FISH	FISH LARVAE	.93	.07	19
						SPIDER	SPIDER	.18	.01	20
						MYSID	MYSID	.18	.01	21
						INSECT	INSECT	.07	.01	22
						ANNELID	ANNELID	.04	.00	23
						BRYOZOA	BRYOZOAN FLOATOBLAST	.32	.03	24
						PLANT	OAK LEAF HAIRS	386.73	30.40	25
ZOOPLANKTN	40	03B	05/03/1974		46.46					
ZOOPLANKTN	41	01A	05/03/1974		15.79	COPEPOD	ACARTIA TONSA	5.33	1.07	1
						COPEPOD	EURYTEMORA AFFINIS	.76	.15	2
						COPEPOD	CYCLOPOID A	3.14	.63	3
						COPEPOD	HALICYCLOPS B	.48	.10	4
						COPEPOD	CYCLOPOID C	4.48	.90	5
						COPEPOD	CYCLOPOID D	1.06	.22	6
						COPEPOD	EUCYCLOPS F	.29	.06	7
						COPEPOD	CYCLOPOID G	.57	.11	8
						COPEPOD	IMMATURE CYCLOPOIDS	18.57	3.73	9
						COPEPOD	HARPACTICOID B NAUP	.19	.04	10
						CLADOCERA	ALONA RECTANGULA	.10	.02	11
						CLADOCERA	BOSMINA LONGIROSTRIS	64.76	13.02	12

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MGHM3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						CLADOCERA	CHYDORUS SPHAERICUS	.29	.06	13
						CLADOCERA	DAPHNIA	10.76	2.16	14
						CLADOCERA	EPHIPPIAL EGGS MOINA	1.43	.29	15
						ANNELID	ANNELID	5.52	1.11	16
						BRYOZOA	BRYOZOAN FLOATOBLAST	.76	.15	17
						FISH	FISH EGG	.10	.02	18
						FISH	FISH LARVAE	3.43	.69	19
						INSECT	DIPTERID LARVAE	.95	.19	20
						SPIDER	SPIDER	.10	.02	21
						ROTIFER	ROTIFER	4.67	.93	22
						POLYCHAETE	POLYCHAETE LARVAE	.48	.10	23
						PLANT	OAK LEAF HAIRS	368.57	74.09	24
						PLANT	LARGE LEAF	.10	.02	25
						DEBRIS	ORGANIC	.10	.02	26
ZOOPLANKTN	42	05B	05/03/1974		31.20					
ZOOPLANKTN	43	07B	06/11/1974		51.70	COPEPOD	ACARTIA TONSA	214.54	8.79	1
						COPEPOD	EURYTEMORA AFFINIS	61.15	2.51	2
						COPEPOD	CYCLOPOID B	.37	.02	3
						COPEPOD	CYCLOPOID C	.03	.00	4
						COPEPOD	CYCLOPOID NAUPLII	.57	.02	5
						COPEPOD	EUCLOPS F	.10	.00	6
						COPEPOD	ERGASILUS CHAUTAUQNS	.74	.03	7
						COPEPOD	HARPACTICOID A	.74	.03	8
						COPEPOD	HARPACTICOID B	.17	.01	9
						CLADOCERA	BOSMINA LONGIROSTRIS	3.51	.14	10
						CLADOCERA	BOSMINA COREGONI	.03	.00	11
						CLADOCERA	DAPHNIA	2.34	.10	12
						CLADOCERA	PODON	.07	.00	13
						PLANT	OAK LEAF HAIRS	2098.58	86.02	14
						BARNACLE	BARNACLE NAUPLII	15.54	.64	15
						BRACHYURAN	CALLINECTES SAP LARV	.94	.04	16
						BRYOZOA	BRYOZOAN FLOATOBLAST	.33	.01	17
						INSECT	INSECT	.23	.01	18
						OSTRACOD	PRIONOCYPRIS LONGEMA	39.43	1.62	19
						POLYCHAETE	POLYCHAETE LARVAE	.07	.00	20
						RHIZOPOD	RHIZOPOD	.03	.00	21
						PLANT	LARGE SEED	.03	.00	22
						PLANT	UNKNOWN HYDROID	.03	.00	23
						BRACHYURAN	BRACHYURAN ZOEA	.07	.00	24
ZOOPLANKTN	44	07A	06/11/1974		73.15	COPEPOD	ACARTIA TONSA	578.16	26.21	1
						COPEPOD	ARGULUS	.07	.00	
						COPEPOD	EURYTEMORA AFFINIS	95.67	4.34	3
						COPEPOD	ERGASILUS CHAUTAUQNS	.49	.02	4
						COPEPOD	CYCLOPOID A	.07	.00	5
						COPEPOD	CYCLOPOID	.35	.02	6
						COPEPOD	CYCLOPOID NAUPLII	.21	.01	7
						COPEPOD	HARPACTICOID A	.14	.01	8
						CLADOCERA	BOSMINA LONGIROSTRIS	.62	.03	9
						CLADOCERA	BOSMINA COREGONI	.07	.00	10
						CLADOCERA	DAPHNIA	.93	.04	11

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						CLADOCERA	PODON	.07	.00	12
						AMPHIPOD	AMPHIPOD LARVAE	.14	.01	13
						BARNACLE	NAUPLII	239.17	10.84	14
						BRACHYURAN	CALLINECTES SAP LARV	1.87	.08	15
						BRACHYURAN	CALLINECTES ZOEA	.28	.01	16
						BRYOZOA	BRYOZOAN FLOATOBLAST	.21	.01	17
						FISH	FISH LARVAE	.07	.00	18
						FLATWORM	FLATWORM	.07	.00	19
						INSECT	INSECT	.07	.00	20
						OSTRACOD	OSTRACOD	.14	.01	21
						OSTRACOD	PRIONOCYPRIS LONGEMA	142.81	6.47	22
						POLYCHAETE	POLYCHAETE LARVAE	.07	.00	23
						RHIZOPOD	RHIZOPOD	.07	.00	24
						PLANT	OAK LEAF HAIRS	1143.85	51.86	25
						DEBRIS	PAINT CHIP	.07	.00	26
						DEBRIS	INORGANIC BLACK SLAG			27
						DEBRIS	ORGANIC			28
ZOOPLANKTN	45	11D	06/11/1974		16.74					
ZOOPLANKTN	46	11C	06/12/1974		11.01					
ZOOPLANKTN	47	11A	06/12/1974		8.51	COPEPOD	ACARTIA TONSA	94.68	57.68	1
						CLADOCERA	BOSMINA LONGIROSTRIS	.11	.07	2
						CLADOCERA	CHYDORUS SPHAERICUS	.02	.01	3
						BARNACLE	BARNACLE NAUPLII	1.22	.74	4
						OSTRACOD	PRIONOCYPRIS LONGEMA	.34	.21	5
						POLYCHAETE	POLYCHAETE LARVAE	.13	.08	6
						BRACHYURAN	CALLINECTES SAP LARV	.49	.30	7
						AMPHIPOD	AMPHIPOD LARVAE	.02	.01	8
						INSECT	DIPTERID LARVAE	.02	.01	9
						PLANT	OAK LEAF HAIRS	67.11	40.89	10
ZOOPLANKTN	48	10B	06/12/1974		10.80	COPEPOD	ACARTIA TONSA	44.83	11.35	1
						COPEPOD	ARGULUS	.04	.01	2
						COPEPOD	ERGASILUS Y NAUPLII	.04	.01	3
						COPEPOD	ERGASILUS CHAUTAUQNS	.02	.01	4
						COPEPOD	HARPACTICOID B	.02	.01	5
						COPEPOD	HARPACTIOID D	.02	.01	6
						ANNELID	ANNELID	.02	.01	7
						BARNACLE	BARNACLE NAUPLII	3.71	.94	8
						BRACHYURAN	CALLINECTES SAP LARV	1.21	.31	9
						OSTRACOD	PRIONOCYPRIS LONGEMA	.33	.08	10
						GASTROPOD	SNAIL	.04	.01	11
						INSECT	INSECT	.12	.03	12
						COELENTERATE	LEPTO MEDUSAE	.25	.06	13
						POLYCHAETE	POLYCHAETE A	7.43	1.88	14
						POLYCHAETE	POLYCHAETE A LARVAE	8.39	2.12	15
						POLYCHAETE	POLYCHAETE B	1.56	.39	16
						FLATWORM	FLATWORM	.57	.14	17
						PLANT	OAK LEAF HAIRS	326.31	82.62	18
						PLANT	UNKNOWN	.02	.01	19
						ALGAE	CLOSTERIUM SETACEUM	.02	.01	20
						DEBRIS	ORGANIC			21

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
ZOOPLANKTN	49	08C	06/12/1974		28.94					
ZOOPLANKTN	50	08B	06/12/1974		18.17					
ZOOPLANKTN	51	05B	06/13/1974		19.87					
ZOOPLANKTN	52	05A	06/13/1974		14.41	COPEPOD	ACARTIA TONSA	8.02	6.07	1
						COPEPOD	EURYTEMORA AFFINIS	4.32	3.27	2
						COPEPOD	HALICYCLOPS B	.02	.02	3
						COPEPOD	CYCLOPOID C	.02	.02	4
						COPEPOD	CYCLOPOID IMMATURES	.04	.03	5
						COPEPOD	ERGASILUS CHAUTAUQNS	.47	.36	6
						COPEPOD	HARPACTICOID B	.02	.02	7
						CLADOCERA	BOSMINA LONGIROSTRIS	.08	.06	8
						CLADOCERA	DAPHNIA	.25	.19	9
						BARNACLE	BARNACLE NAUPLII	7.94	6.01	10
						BRACHYURAN	CALLINECTES SAP LARV	.23	.17	11
						OSTRACOD	PRIONOCYPRIS LONGFMA	.10	.08	12
						POLYCHAETE	POLYCHAETE LARVAE B	.02	.02	13
						POLYCHAETE	POLYCHAETE LARVAE A	.14	.11	14
						BRYOZOA	BRYOZOAN FLOATOBLAST	.04	.03	15
						INSECT	INSECT	.08	.06	16
						PLANT	OAK LEAF HAIRS	110.34	83.51	17
ZOOPLANKTN	53	03B	06/13/1974		24.60					
ZOOPLANKTN	54	01A	06/13/1974		9.64	COPEPOD	ACARTIA TONSA	79.64	4.64	1
						COPEPOD	ARGULUS	.06	.00	2
						COPEPOD	EURYTEMORA AFFINIS	2.22	.13	3
						COPEPOD	ERGASILUS CHAUTAUQNS	.78	.05	4
						COPEPOD	HARPACTICOID B	.12	.01	5
						COPEPOD	CYCLOPOID A	2.22	.13	6
						COPEPOD	HALICYCLOPS B	.18	.01	7
						COPEPOD	CYCLOPOID C	1.92	.11	8
						COPEPOD	CYCLOPOID D NAUPLII	.54	.03	9
						COPEPOD	CYCLOPOID E	.30	.02	10
						COPEPOD	EUCYCLOPS F	.18	.01	11
						COPEPOD	CYCLOPOID G	.36	.02	12
						COPEPOD	IMMATURE CYCLOPOIDS	98.80	5.76	13
						COPEPOD	MACROCYCLOP FUSCS A1	.96	.06	14
						CLADOCERA	ALONA RECTANGULA	1.26	.07	15
						CLADOCERA	BOSMINA LONGIROSTRIS	417.96	24.37	16
						CLADOCERA	BOSMINA COREGONI	18.62	1.09	17
						CLADOCERA	CHYDORUS SPHAERICUS	.54	.03	18
						CLADOCERA	DAPHNIA	777.25	45.32	19
						CLADOCERA	EPHIPPIAL EGGS MOINA	.78	.05	20
						CLADOCERA	LEYDIGIA ACANTHOCERC	.06	.00	21
						BARNACLE	BARNACLE NAUPLII	.24	.01	22
						BRYOZOA	BRYOZOAN FLOATOBLAST	.06	.00	23
						INSECT	INSECT	.06	.00	24
						INSECT	DIPTERID LARVAE	.12	.01	25
						OSTRACOD	OSTRACOD	.48	.03	26
						ROTIFER	BRACHIONUS	3.17	.18	27
						ROTIFER	GASTROPUS	2.99	.17	28
						SPIDER	SPIDER	.06	.00	29

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**						ALGAE	CLOSTERIUM	.06	.00	30
						PLANT	OAK LEAF HAIRS	302.99	17.67	31
						PLANT	POD	.06	.00	32
ZOOPLANKTN	55	07B	07/08/1974		50.00	COPEPOD	ACARTIA TONSA	243.87	59.46	1
						COPEPOD	CYCLOPOID A	.29	.07	2
						COPEPOD	CYCLOPOID B	.23	.06	3
						COPEPOD	ERGASILUS CHAUTAUQNS	.58	.14	4
						COPEPOD	EURYTEMORA AFFINIS	.84	.20	5
						COPEPOD	HARPACTICOID A	.06	.01	6
						CLADOCERA	ALONA AFFINIS	.03	.01	7
						CLADOCERA	ALONA RECTANGULA	.10	.02	8
						CLADOCERA	BOSMINA COREGONI	.65	.16	9
						CLADOCERA	BOSMINA LONGIROSTRIS	10.97	2.67	10
						CLADOCERA	CHYDORUS SPHAERICUS	.06	.01	11
						CLADOCERA	DAPHNIA	37.42	9.12	12
						CLADOCERA	EPHIPPIAL EGGS	.06	.01	13
						BARNACLE	BARNACLE NAUPLII	1.97	.48	14
						BRACHYURAN	CALLINECTES SAP LARV	.03	.01	15
						BRACHYURAN	CALLINECTES ZOEA	1.35	.33	16
						BRYOZOA	BRYOZOAN FLOATOBLAST	2.52	.61	17
						INSECT	INSECT	.32	.08	18
						OSTRACOD	PRIONOCYPRIS LONGFMA	18.71	4.56	19
						POLYCHAETE	POLYCHAETE LARVAE	.06	.01	20
						RHIZOPOD	RHIZOPOD	.90	.22	21
						SPIDER	SPIDER	.06	.01	22
						PLANT	OAK LEAF HAIRS	89.03	21.71	23
						PLANT	SEED POD	.03	.01	24
						DEBRIS	ORGANIC			25
						DEBRIS	INORGANIC BLACK SLAG			26
ZOOPLANKTN	56	11D	07/08/1974		91.88					
ZOOPLANKTN	57	11C	07/09/1974		11.12					
ZOOPLANKTN	58	11A	07/09/1974		10.85	COPEPOD	ACARTIA TONSA	833.88	86.26	1
						CLADOCERA	PODON LEUCARTI	28.08	2.90	2
						BARNACLE	BARNACLE NAUPLII	33.52	3.47	3
						OSTRACOD	PRIONOCYPRIS LONGFMA	9.47	.98	4
						POLYCHAETE	POLYCHAETE LARVAE	.14	.01	5
						BRACHYURAN	CALLINECTES SAP LARV	4.44	.46	6
						GASTROPOD	SNAIL	.09	.01	7
						INSECT	INSECT	.09	.01	8
						FISH	FISH EGG	.23	.02	9
						PLANT	OAK LEAF HAIRS	8.79	.91	10
ZOOPLANKTN	59	10B	07/09/1974		12.20	COPEPOD	ACARTIA TONSA	428.74	95.54	1
						COPEPOD	ARGULUS	.02	.00	2
						COPEPOD	HARPACTICOID D	.02	.00	3
						CLADOCERA	DAPHNIA	.07	.02	4
						CLADOCERA	PODON LEUCARTI	2.99	.67	5
						BRACHYURAN	CALLINECTES SAP LARV	3.14	.70	6
						BARNACLE	BARNACLE NAUPLII	4.68	1.04	7
						POLYCHAETE	POLYCHAETE LARVAE	.10	.02	8
						FISH	FISH LARVAE	.02	.00	9

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						FISH	FISH EGG	.10	.02	10
						ISOPOD	ISOPOD	.07	.02	11
						OSTRACOD	PRIONOCYPRIS LONGFMA	2.26	.50	12
						SPIDER	SPIDER	.02	.00	13
						INSECT	INSECT	.10	.02	14
						CRUSTACEAN	UNKNOWN	.02	.00	15
						PLANT	OAK LEAF HAIRS	6.39	1.42	16
ZOOPLANKTN	60	08C	07/09/1974		6.63					
ZOOPLANKTN	61	05A	07/09/1974		5.90	COPEPOD	ACARTIA TONSA	2097.30	87.45	1
						COPEPOD	EURYTEMORA AFFINIS	53.89	2.25	2
						COPEPOD	ERGASILUS M SPP	.17	.01	3
						COPEPOD	HARPACTICOID A	.17	.01	4
						CLADOCERA	DAPHNIA	1.33	.06	5
						CLADOCERA	PODON LEUCARTI	.17	.01	6
						BARNACLE	BARNACLE NAUPLII	212.89	8.88	7
						BRACHYURAN	CALLINECTES SAP LARV	6.49	.27	8
						BRYOZOA	BRYOZOAN FLOATOBLAST	.17	.01	9
						FISH	FISH LARVAE	.50	.02	10
						GASTROPOD	SNAIL	.17	.01	11
						INSECT	INSECT	.33	.01	12
						OSTRACOD	PRIONOCYPRIS LONGFMA	18.96	.79	13
						POLYCHAETE	POLYCHAETE LARVAE	1.83	.08	14
						PLANT	ALGAE UNKNOWN	.17	.01	15
						PLANT	OAK LEAF HAIRS	3.66	.15	16
ZOOPLANKTN	62	03B	07/10/1974		4.04					
ZOOPLANKTN	63	01A	07/10/1974		17.47	COPEPOD	ACARTIA TONSA	.84	.06	1
						COPEPOD	CYCLOPOID A	1.17	.09	2
						COPEPOD	MACROCYCLOPS FUSC A1	7.77	.58	3
						COPEPOD	CYCLOPOID C	2.00	.15	4
						COPEPOD	CYLOPOID NAUPLII	14.95	1.11	5
						COPEPOD	EUCYCLOPS F	4.34	.32	6
						COPEPOD	ERGASILUS CHAUTAUQNS	.17	.01	7
						CLADOCERA	ALONA AFFINIS	9.35	.70	8
						CLADOCERA	ALONA GUTTATA	2.34	.17	9
						CLADOCERA	ALONA QUADRANGULARIS	3.34	.25	10
						CLADOCERA	BOSMINA COREGONI	49.27	3.66	11
						CLADOCERA	BOSMINA LONGIROSTRIS	23.13	1.72	12
						CLADOCERA	CAMPTOCERUS RECTIROS	.08	.01	13
						CLADOCERA	CHYDORUS SPHAERICUS	3.17	.24	14
						CLADOCERA	DAPHNIA	1196.66	88.98	15
						CLADOCERA	ILYOCRYPTUS SPINIFER	11.44	.85	16
						CLADOCERA	LEYDIGIA QUADRANGULS	.08	.01	17
						CLADOCERA	MONOSPILUS DISPAR	.08	.01	18
						CLADOCERA	PODON LEUCARTI	.17	.01	19
						BRACHYURAN	CALLINECTES SAP LARV	.08	.01	20
						BRYOZOA	BRYOZOAN FLOATBLAST	.25	.02	21
						FISH	FISH EGG	.92	.07	23
						INSECT	INSECT	.08	.01	24
						BARNACLE	BARNACLE NAUPLII	.08	.01	25
						OSTRACOD	OSTRACOD	1.17	.09	26

SAMPLE TYPE C701	SAMP NUMB. C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG*M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						OSTRACOD	PRIONOCYPRIS LONGFMA	.08	.01	27
						ROTIFER	ROTIFER	6.26	.47	28
						SPIDER	SPIDER	1.42	.11	29
						PLANT	ALGAE	.08	.01	30
						PLANT	OAK LEAF HAIRS	4.09	.30	31
						DEBRIS	ORGANIC BLOBS			32
ZOOPLANKTN	64	11D	09/18/1974		8.38					
ZOOPLANKTN	65	07B	09/18/1974		47.94	COPEPOD	ACARTIA TONSA	1012.58	99.07	1
						COPEPOD	ARGULUS SPP	.04	.00	2
						COPEPOD	ERGASILUS CHAUTAUQNS	.09	.01	3
						COPEPOD	HALICYCLOPS B	.04	.00	4
						CLADOCERA	BOSMINA COPEGONI	.04	.00	5
						CLADOCERA	BOSMINA LONGIROSTRIS	.09	.01	6
						CLADOCERA	DAPHNIA	.13	.01	7
						CLADOCERA	PODON POLYPHEMOIDES	.04	.00	8
						BARNACLE	NAUPLII	2.60	.25	9
						BRACHYURAN	CALLINECTES SAP LARV	.04	.00	10
						BRYOZOA	BRYOZOAN FLOATOBLAST	.22	.02	11
						DIATOM	CENTRALES	2.78	.27	12
						NEMATODE	NEMATODE	.04	.00	13
						OSTRACOD	PRIONOCYPRIS LONGFMA	2.21	.22	14
						PLANT	OAK LEAF HAIRS	1.13	.11	15
						DEBRIS	BLACK SLAG INORGANIC			16
ZOOPLANKTN	66	11A	09/19/1974		157.89	COPEPOD	ACARTIA TONSA	2553.65	99.14	1
						COPEPOD	HALICYCLOPS B1	.05	.00	2
						COPEPOD	ERGASILUS X	.21	.00	3
						COPEPOD	HARPACTICOID A	.05	.00	4
						CLADOCERA	PODON LEUCARTI	2.45	.10	5
						AMPHIPOD	AMPHIPOD LARVAE	.05	.00	6
						BARNACLE	BARNACLE NAUPLII	12.03	.47	7
						BRACHYURAN	CALLINECTES SAP LARV	.10	.00	8
						OSTRACOD	PRIONOCYPRIS LONGFMA	1.35	.05	9
						POLYCHAETE	POLYCHAETE LARVAE	2.55	.10	10
						GASTROPOD	SNAIL	.10	.00	11
						ROTIFER	ROTIFER	.05	.00	12
						FLATWORM	FLATWORM	.16	.00	13
						INSECT	INSECT	.05	.00	14
						DIATOM	CENTRALES	2.50	.10	15
						ALGAE	CLOSTERIUM SETACEUM	.05	.00	16
						PLANT	OAK LEAF HAIRS	.36	.01	17
ZOOPLANKTN	67	11C	09/19/1974		27.70					
ZOOPLANKTN	68	10B	09/19/1974		33.15	COPEPOD	ACARTIA TONSA	268.25	96.76	1
						COPEPOD	NAUPLII	.42	.15	2
						CLADOCERA	PODON LEUCARTI	1.27	.46	3
						BARNACLE	BARNACLE NAUPLII	4.13	1.49	4
						OSTRACOD	PRIONOCYPRIS LONGFMA	1.11	.40	5
						DIATOM	CENTRALES	2.06	.74	6
						DEBRIS	ORGANIC			7
						DEBRIS	INORGANIC SLAG			8
ZOOPLANKTN	69	08C	09/19/1974		22.60					

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
ZOOPLANKTN	70	05A	09/19/1974		27.50	COPEPOD	ACARTIA TONSA	1168.56	97.46	1
						COPEPOD	EURYTEMORA AFFINIS	.91	.08	2
						COPEPOD	ARGULUS NAUPLII	.04	.00	3
						COPEPOD	OITHONA BREVICORNIS	.07	.01	4
						COPEPOD	ERGASILUS CHAUTAUQNS	.44	.04	5
						COPEPOD	HARPACTICOID A	.04	.00	6
						COPEPOD	CALANOID NAUPLII	.04	.00	7
						CLADOCERA	PODON LEUCAPTI	.04	.00	8
						CLADOCERA	EPHIPPIAL EGGS	.15	.01	9
						BARNACLE	BARNACLE NAUPLII	19.38	1.62	10
						BRYOZOA	BRYOZOAN FLOATOBLAST	.07	.01	11
						DIATOM	CENTRALES	1.17	.10	12
						FISH	FISH EGG	.04	.00	13
						GASTROPOD	SNAIL	.37	.03	14
						FLATWORM	FLATWORM	.33	.03	15
						MYSIS	MYSIS LARVAE	.04	.00	16
						OSTRACOD	PRIONOCYPRIS LONGFMA	2.41	.20	17
						POLYCHAETE	POLYCHAETE LARVAE	4.17	.35	18
						PLANT	OAK LEAF HAIRS	.73	.06	19
						DEBRIS	ORGANIC FEATHER			20
						DEBRIS	INORGANIC FIBER SLAG			21
ZOOPLANKTN	71	01A	09/20/1974		18.83	COPEPOD	ACARTIA TONSA	3.05	.20	1
						COPEPOD	EURYTEMORA AFFINIS	5.29	.35	2
						COPEPOD	CYCLOPOID A	.66	.04	3
						COPEPOD	MACROCYCLOPS FUSC A1	2.29	.15	4
						COPEPOD	HALICYCLOPS B	.05	.00	5
						COPEPOD	CYCLOPOID C	.86	.06	6
						COPEPOD	CYCLOPOID E	1.22	.08	7
						COPEPOD	CYCLOPOID NAUPLII	21.86	1.44	8
						COPEPOD	OITHONA BREVICORNIS	.20	.01	9
						COPEPOD	ERGASILUS CHAUTAUQNS	.05	.00	10
						CLADOCERA	ALONA AFFINIS	.05	.00	11
						CLADOCERA	BOSMINA LONGIROSTRIS	370.01	24.33	12
						CLADOCERA	BOSMINA COREGONI	173.82	11.43	13
						CLADOCERA	CHYDORUS SPHAERICUS	.81	.05	14
						CLADOCERA	DAPHNIA	908.77	59.75	15
						CLADOCERA	ILYOCRYPTUS SPINIFER	3.61	.24	16
						CLADOCERA	PLEUROXUS DENTICULAT	.05	.00	17
						INSECT	INSECT	.05	.00	18
						OSTRACOD	OSTRACOD	6.30	.41	19
						OSTRACOD	PRIONOCYPRIS LONGFMA	.41	.03	20
						MOLLUSK	PELECYPOD LARVAE	.05	.00	21
						ROTIFER	ROTIFER	20.64	1.36	22
						SPIDER	SPIDER	.20	.01	23
						DIATOM	CENTRALES	.41	.03	24
						PLANT	OAK LEAF HAIRS	.15	.01	25
						DEBRIS	ORGANIC			26
ZOOPLANKTN	72	03B	09/20/1974		9.04					
ZOOPLANKTN	73	11A	10/24/1974		16.26	COPEPOD	ACARTIA TONSA	20.67	41.64	1
						COPEPOD	OITHONA NANA	.04	.08	2

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						CLADOCERA	PODON LAUCARTI	25.03	50.42	3
						BARNACLE	BARNACLE NAUPLII	1.29	2.60	4
						DIATOM	CENTRALES	.08	.16	5
						FLATWORM	FLATWORM	.08	.16	6
						OSTRACOD	PRIONOCYPRIS LONGFMA	1.95	3.93	7
						POLYCHAETE	POLYCHAETE LARVAE	.42	.85	8
						PLANT	OAK LEAF HAIRS	.08	.16	9
						DEBRIS	ORGANIC			10
ZOOPLANKTN	74	11C	10/24/1974		11.90					
ZOOPLANKTN	75	10B	10/24/1974		10.87	COPEPOD	ACARTIA TONSA	2.56	76.42	1
						CLADOCERA	PODON LEUCARTI	.29	8.66	2
						BARNACLE	BARNACLE NAUPLII	.02	.60	3
						DIATOM	CENTRALES	.02	.60	4
						OSTRACOD	PRIONOCYPRIS LONGFMA	.21	6.27	5
						UNKNOWN	SMALL EGGS	.25	7.46	6
						DEBRIS	ORGANIC			7
ZOOPLANKTN	76	08C	10/24/1974		12.39					
ZOOPLANKTN	77	05B	10/24/1974		8.20					
ZOOPLANKTN	78	05A	10/24/1974		4.08	COPEPOD	ACARTIA TONSA	458.02	97.29	1
						COPEPOD	CALANOID NAUPLII	.03	.01	2
						COPEPOD	ERGASILUS CHAUTAUQNS	.08	.02	3
						COPEPOD	EURYTEMORA AFFINIS	2.65	.56	4
						COPEPOD	HARPACTICOID B	.03	.01	5
						COPEPOD	OITHONA BREVICORNIS	.75	.16	6
						COPEPOD	OITHONA NANA	.03	.01	7
						CLADOCERA	PODON	4.49	.95	8
						CLADOCERA	EPHIPPIAL EGGS	.61	.13	9
						BARNACLE	BARNACLE NAUPLII	.50	.11	10
						BRYOZOA	BRYOZOAN FLOATOBLAST	.53	.11	11
						DIATOM	CENTRALES	.42	.09	12
						EGG	EGG	.03	.01	13
						FLATWORM	FLATWORM	.14	.03	14
						GASTROPOD	SNAIL	.03	.01	15
						INSECT	LARVAE UNKNOWN	.03	.01	16
						INSECT	UNKNOWN	.06	.01	17
						MYSID	MYSID ZOEA	.08	.02	18
						OSTRACOD	PRIONOCYPRIS LONGFMA	.47	.10	19
						POLYCHAETE	POLYCHAETE LARVAE	.98	.21	20
						RHIZOPOD	ARCELLA POLYPORA	.11	.02	21
						RHIZOPOD	DIFFLUGIA CORONA	.03	.01	22
						ROTIFER	ROTIFER	.45	.10	23
						PLANT	OAK LEAF HAIRS	.25	.05	24
						DEBRIS	ORGANIC MASSIVE AMT			25
ZOOPLANKTN	79	03B	11/25/1974		14.28					
ZOOPLANKTN	80	001	11/25/1974		14.86					
ZOOPLANKTN	81	002	11/25/1974		32.16					
ZOOPLANKTN	82	003	11/25/1974		49.33					
ZOOPLANKTN	83	005	11/25/1974		12.18					
ZOOPLANKTN	84	11A	11/27/1974		21.25	COPEPOD	ACARTIA TONSA	590.67	85.77	1
						COPEPOD	EURYTEMORA AFFINIS	.51	.07	2

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						COPEPOD	CALANOID NAUPLII	.95	.14	3
						COPEPOD	CYCLOPOID NAUPLII	.03	.00	4
						COPEPOD	OITHONA BREVICORNIS	1.49	.22	5
						CLADOCERA	PODON LEUCARTI	59.23	8.60	6
						BARNACLE	BARNACLE NAUPLII	29.75	4.32	7
						CHAETOGNATHA	SAGITTA ARROW WORM	.03	.00	8
						DIATOM	CENTRALES	.08	.01	9
						FLATWORM	FLATWORM	.08	.01	10
						OSTRACOD	PRIONOCYPRIS LONGFMA	.14	.02	11
						POLYCHAETE	POLYCHAETE LARVAE	5.71	.83	12
ZOOPLANKTN	85	11C	11/27/1974		16.50					
ZOOPLANKTN	86	10B	11/27/1974		19.06	COPEPOD	ACARTIA TONSA	1833.33	96.58	1
						COPEPOD	CYCLOPOID NAUPLII	.08	.00	2
						COPEPOD	ERGASILUS CHAUTAUQNS	.08	.00	3
						COPEPOD	ERGASILUS Y NAUPLII	.08	.00	4
						COPEPOD	EURYTEMORA AFFINIS	.15	.01	5
						COPEPOD	OITHONA BREVICORNIS	.53	.03	6
						CLADOCERA	PODON LEUCARTI	40.15	2.12	7
						BARNACLE	BARNACLE NAUPLII	10.45	.55	8
						BRYOZOA	BRYOZOAN FLOATOBLAST	.15	.01	9
						DIATOM	CENTRALES	.15	.01	10
						OSTRACOD	PRIONOCYPRIS LONGFMA	.30	.02	11
						POLYCHAETE	POLYCHAETE LARVAE	11.67	.61	12
						RHIZOPOD	DIFFLUGIA ARCULA	.15	.01	13
						ROTIFER	ROTIFER	.91	.05	14
						PLANT	OAK LEAF HAIRS	.15	.01	15
						DEBRIS	INORGANIC BLACK SLAG			16
ZOOPLANKTN	87	05A	11/27/1974		11.17	COPEPOD	ACARTIA TONSA	1576.56	87.24	1
						COPEPOD	EURYTEMORA AFFINIS	35.94	1.99	2
						COPEPOD	CALANOID NAUPLII	.23	.01	3
						COPEPOD	EUCYCLOPS F	.94	.05	4
						COPEPOD	CYCLOPOID NAUPLII	1.64	.09	5
						COPEPOD	OITHONA BREVICORNIS	.08	.00	6
						CLADOCERA	BOSMINA COREGONI	.78	.04	7
						CLADOCERA	BOSMINA LONGIROSTRIS	4.14	.23	8
						CLADOCERA	BOSMINA X VARIETY	1.17	.06	9
						CLADOCERA	DAPHNIA	.08	.00	10
						CLADOCERA	PODON	7.73	.43	11
						CLADOCERA	EPHIPPIAL EGGS	.08	.00	12
						BARNACLE	BARNACLE NAUPLII	4.53	.25	13
						BRYOZOA	BRYOZOAN FLOATOBLAST	.78	.04	14
						DIATOM	CENTRALES	.31	.02	15
						INSECT	INSECT	.08	.00	16
						OSTRACOD	OSTRACOD	.08	.00	17
						OSTRACOD	PRIONOCYPRIS LONGFMA	.23	.01	18
						POLYCHAETE	POLYCHAETE LARVAE	170.31	9.42	19
						RHIZOPOD	RHIZOPOD	.23	.01	20
						ROTIFER	ROTIFER	.86	.05	21
						PLANT	OAK LEAF HAIRS	.39	.02	22
						DEBRIS	ORGANIC			23

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
ZOOPLANKTN	88	08B	11/27/1974		15.28					
ZOOPLANKTN	89	11A	12/17/1974		13.41	COPEPOD	ACARTIA TONSA	2223.61	75.68	1
						COPEPOD	EURYTEMORA AFFINIS	14.85	.51	2
						COPEPOD	CALANOID NAUPLII	.59	.02	3
						COPEPOD	CYCLOPOID A	.24	.01	4
						COPEPOD	CYCLOPOID C	.36	.01	5
						COPEPOD	EUCYCLOPS F	.12	.00	6
						COPEPOD	HALICYCLOPS FOSTERI	.12	.00	7
						COPEPOD	CYCLOPOD NAUPLII	.48	.02	8
						COPEPOD	HARPACTICOID B	.59	.02	9
						COPEPOD	HARPACTICOID D	8.08	.27	10
						COPEPOD	OITHONA BREVICORNIS	9.38	.32	11
						CLADOCERA	PODON LEUCARTI	123.53	4.20	12
						BARNACLE	BARNACLE NAUPLII	11.64	.40	13
						DIATOM	CENTRALES	.36	.01	14
						FLATWORM	FLATWORM	.24	.01	15
						OSTRACOD	OSTRACOD	.12	.00	16
						OSTRACOD	PRIONOCYPRIS LONGFMA	2.85	.10	17
						POLYCHAETE	POLYCHAETE LARVAE	539.27	18.35	18
						RHIZOPOD	ACTINOPHRYS	.12	.00	19
						ROTIFER	ROTIFER	1.66	.06	20
						PLANT	OAK LEAF HAIR	.12	.00	21
						DEBRIS	INORGANIC BLACK SLAG			22
ZOOPLANKTN	90	11C	12/17/1974		4.10					
ZOOPLANKTN	91	10B	12/17/1974		6.51	COPEPOD	ACARTIA TONSA	1214.46	70.38	1
						COPEPOD	EURYTEMORA AFFINIS	34.37	1.99	2
						COPEPOD	CALANOID NAUPLII	.29	.02	3
						COPEPOD	CYCLOPOID A	.57	.03	4
						COPEPOD	CYCLOPOID NAUPLII	.79	.05	5
						COPEPOD	ERGASILUS Y NAUPLII	.07	.00	6
						COPEPOD	HARPACTICOID B	2.58	.15	7
						COPEPOD	HARPACTICOID D	.29	.02	8
						COPEPOD	OITHONA BREVICORNIS	2.22	.13	9
						CLADOCERA	BOSMINA LONGIROSTRIS	.14	.01	10
						CLADOCERA	DAPHNIA	.07	.00	11
						CLADOCERA	PODON	309.34	17.93	12
						BARNACLE	BARNACLE NAUPLII	2.86	.17	13
						DIATOM	CENTRALES	.07	.00	14
						FLATWORM	FLATWORM	.36	.02	15
						OSTRACOD	OSTRACOD	.14	.01	16
						OSTRACOD	PRIONOCYPRIS LONGFMA	.79	.05	17
						POLYCHAETE	POLYCHAETE LARVAE	154.67	8.96	18
						ROTIFER	ROTIFER	.93	.05	19
						PLANT	OAK LEAF HAIRS	.14	.01	20
						DEBRIS	INORGANIC BLACK	.43	.02	21
ZOOPLANKTN	92	08C	12/17/1974		4.78					
ZOOPLANKTN	93	05A	12/17/1974		5.41	COPEPOD	ACARTIA TONSA	180.27	22.64	1
						COPEPOD	EURYTEMORA AFFINIS	536.94	67.44	2
						COPEPOD	CALANOID NAUPLII	.52	.07	3
						COPEPOD	OITHONA BREVICORNIS	1.38	.17	4

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**										
						COPEPOD	CYCLOPOID A	.61	.08	5
						COPEPOD	HALICYCLOPS B	.26	.03	6
						COPEPOD	CYCLOPOID C LG ADULT	1.03	.13	7
						COPEPOD	CYCLOPOID D	.19	.02	8
						COPEPOD	EUCYCLOPS F	.13	.02	9
						COPEPOD	CYCLOPOID NAUPLII	2.51	.32	10
						COPEPOD	HARPACTICOID B	1.83	.23	11
						COPEPOD	HARPACTICOID D	.45	.06	12
						COPEPOD	ROBERTSONIA CHESAPKN	2.99	.38	13
						CLADOCERA	ALONA AFFINIS	.03	.00	14
						CLADOCERA	BOSMINA LONGIROSTRIS	6.70	.84	15
						CLADOCERA	BOSMINA COREGONI	.13	.02	16
						CLADOCERA	BOSMINA X VARIETY	1.22	.15	17
						CLADOCERA	CHYDORUS SPHAERICUS	1.00	.13	18
						CLADOCERA	DAPHNIA	.84	.11	19
						CLADOCERA	EPHIPPIAL EGGS	.10	.01	20
						CLADOCERA	ILYOCRYPTUS SPINIFER	.45	.06	21
						CLADOCERA	PODON LEUCARTI	9.85	1.24	22
						BARNACLE	BARNACLE NAUPLII	.10	.01	23
						BRYOZOA	BRYOZOAN FLOATOBLAST	.06	.01	24
						DIATOM	CENTRALES	.03	.00	25
						FISH	LARGE FISH LARVAE	.06	.01	26
						FISH	TINY FISH SCALES	3.99	.50	27
						FISH	LARGE MENHADEN	.03	.00	28
						INSECT	DIPTERID LARVAE	.06	.01	29
						OSTRACOD	PRIONOCYPRIS LONGFMA	.03	.00	30
						POLYCHAETE	POLYCHAETE LARVAE	42.17	5.30	31
						PLANT	OAK LEAF HAIRS	.10	.01	32
						DEBRIS	INORGANIC PAINT SLAG	.10	.01	33
						DEBRIS	ORGANIC SMALL AMOUNT			34
ZOOPLANKTN	94	03B	12/18/1974		11.28					
ZOOPLANKTN	95	01A	12/18/1974		1.36	COPEPOD	ACARTIA TONSA	3.98	1.21	1
						COPEPOD	EURYTEMORA AFFINIS	5.20	1.58	2
						COPEPOD	OITHONA BREVICORNIS	2.04	.62	3
						COPEPOD	CYCLOPOID A	5.96	1.81	4
						COPEPOD	HALICYCLOPS B	.56	.17	5
						COPEPOD	CYCLOPOID C	1.94	.59	6
						COPEPOD	CYCLOPOID D	1.84	.56	7
						COPEPOD	EUCYCLOPS F	.66	.20	8
						COPEPOD	CYCLOPOID G	.71	.22	9
						COPEPOD	CYCLOPOID NAUPLII	29.06	8.84	10
						COPEPOD	HARPACTICOID B	2.60	.79	11
						COPEPOD	HARPACTICOID D	2.24	.68	12
						COPEPOD	ROBERTSONIA CHESAPKN	.46	.14	13
						CLADOCERA	ALONA AFFINIS	.31	.09	14
						CLADOCERA	ALONA RECTANGULA	.66	.20	15
						CLADOCERA	ALLONELLA SPP DENTIF	.25	.08	16
						CLADOCERA	BOSMINA COREGONI	.20	.06	17
						CLADOCERA	BOSMINA LONGIROSTRIS	198.29	60.32	18
						CLADOCERA	CHYDORUS SPHAERICUS	10.09	3.07	19

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	TOTAL-LIP MG"M3 C718	CHL A UGL C719	TOXONOMY ORGANIZM TYPE C726	- GENUS SPECIES C727	POPULAT. NUMBER C728	RELT PCMP C729	SEQ NUMB C730
**						CLADOCERA	DAPHNIA	17.84	5.43	20
						CLADOCERA	EPHIPPIAL EGGS	4.03	1.23	21
						CLADOCERA	ILYOCRYPTUS SPINIFER	2.55	.78	22
						CLADOCERA	LEYDIGIA ACANTHOCERC	9.18	2.79	23
						CLADOCERA	LEYDIGIA QUADRANGULA	9.18	2.79	24
						CLADOCERA	PLEUROXIS HAMULATUS	.25	.08	25
						CLADOCERA	PODON LEUCARTI	.36	.11	26
						AMPHIPOD	AMPHIPOD LARVAE	.05	.02	27
						ANNELLID	ANNELLID LARVAE	.51	.16	28
						BARNACLE	BARNACLE NAUPLII	.05	.02	29
						BRYOZOA	BRYOZOAN FLOATOBLAST	4.38	1.33	30
						BRYOZOA	PECTINATELLA MAGNIFI	.10	.03	31
						FISH	FISH EGGS	3.62	1.10	32
						FISH	FISH SCALES	.10	.03	33
						HYDROID	HYDROID	.46	.14	34
						INSECT	DIPTERID LARVAE	.15	.05	35
						INSECT	SPIDER-LIKE	.25	.08	36
						OSTRCOD	OSTRCOD	.56	.17	37
						OSTRACOD	PRIONOCYPRIS LONGFMA	.05	.02	38
						POLYCHAETE	POLYCHAETE LARVAE	.05	.02	39
						RHIZOPODS	RHIZOPODS	1.33	.40	40
						ROTIFERS	ROTIFERS	3.98	1.21	41
						PLANT	OAK LEAF HAIRS	2.24	.68	42
						PLANT	LARGE WINGED SEEDS	.36	.11	43
						DEBRIS	INORGANIC PAINT CHIP	.05	.02	44
						DEBRIS	INORGANIC BLACK SLAG			45
						DEBRIS	ORGANIC LARGE AMOUNT			46

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	DEPTH METRS C751	TEMP CENTG C752	DISLV OXYGN C753	CONDU CTIVT C754	PH " C755
ZOOPLANKTN	32	07B	05/01/1974	.0	17.50	8.20	6.50	7.30
				2.0	15.40	7.30	7.50	7.20
				4.0	15.20	6.90	8.70	7.20
				6.0	14.90	6.00	9.90	6.90
				7.0	14.80	5.90	10.70	6.90
ZOOPLANKTN	33	11D	05/01/1974	.0	17.20	8.80	13.50	7.90
				2.0	17.70	8.90	13.50	7.90
				4.0	17.20	9.00	13.50	7.90
				6.0	16.50	9.10	14.00	7.90
				7.0	15.50	8.80	14.00	7.70
ZOOPLANKTN	34	11C	05/02/1974	.0	13.50	9.20	11.20	7.70
ZOOPLANKTN	35	11A	05/02/1974	.0	15.00	9.60	9.10	7.80
				2.0	15.00	9.40	9.20	7.90
				4.0	15.00	9.50	9.20	8.00
				5.0	15.00	9.50	9.20	8.00
ZOOPLANKTN	36	10B	05/02/1974	.0	14.90	9.70	8.90	8.00
				2.0	15.00	9.50	8.80	7.90
				4.0	14.90	9.50	8.70	8.00
				6.0	14.90	9.60	8.70	7.90
				8.0	14.90	9.60	8.60	7.90
				10.0	11.00	6.40	19.00	7.10
				11.5	10.50	5.80	19.00	7.10
ZOOPLANKTN	37	08C	05/02/1974	.0	14.90	8.60	6.00	7.60
				4.0	14.90	8.30	8.80	7.40
				9.0	12.00	6.60	14.00	7.20
ZOOPLANKTN	38	08B	05/02/1974	.0	15.80	8.50	4.10	7.50
				2.0	15.70	8.40	4.20	7.40
				4.0	16.00	8.50	4.30	7.50
ZOOPLANKTN	39	05A	05/03/1974	.0	15.00	8.90	2.50	7.40
				2.0	15.00	8.60	2.40	7.40
				4.0	15.00	8.50	2.60	7.50
				6.0	15.00	8.40	2.80	7.50
				8.0	14.90	8.20	4.30	7.40
ZOOPLANKTN	43	07B	06/11/1974	.0	24.50	7.80	6.60	7.70
				4.0	23.00	7.20	7.50	7.70
				8.0	18.30	1.40	15.50	7.70
ZOOPLANKTN	45	11D	06/11/1974	.0	23.70	7.80	14.00	7.70
				4.0	23.20	7.90	14.00	7.70
				6.0	20.70	5.10	15.00	7.70
				8.0	18.00	1.80	18.00	7.60
ZOOPLANKTN	46	11C	06/12/1974	.0	22.50	8.30	9.40	7.70
				4.0	22.20	8.10	9.70	7.70
				8.0	19.40	3.90	16.00	7.70
				12.0	17.50	1.10	21.00	7.70
				16.0	17.50	.30	24.00	7.70
				20.0	17.50	.10	24.20	7.70
ZOOPLANKTN	47	11A	06/12/1974	.0	22.50	9.10	9.10	7.70
				2.0	21.50	7.70	11.00	7.70
				4.0	19.50	5.10	15.00	7.70
				6.0	17.70	2.60	20.00	7.70

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SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	DEPTH METRS C751	TEMP CENTG C752	DISLV OXYGN C753	CONDU CTIVT C754	PH " C755
**								
ZOOPLANKTN	48	10B	06/12/1974	.0	24.00	7.80	8.30	7.70
				2.0	22.00	7.20	10.00	7.70
				4.0	18.50	3.70	18.00	7.60
				6.0	17.50	1.60	21.00	7.70
				8.0	17.00	.80	22.00	7.70
				10.0	17.00	.40	22.50	7.60
ZOOPLANKTN	49	08C	06/12/1974	.0	22.50	9.20	6.20	7.70
				2.0	22.50	9.50	6.30	7.70
				4.0	20.50	5.50	11.50	7.60
				8.0	17.50	2.20	18.50	7.70
				10.0	17.50	1.20	18.50	7.60
ZOOPLANKTN	50	08B	06/12/1974	.0	22.70	8.00	7.30	7.60
				2.0	22.50	8.60	7.40	7.70
				4.0	20.00	3.80	12.40	7.70
ZOOPLANKTN	52	05A	06/13/1974	.0	22.10	7.10	4.40	7.60
				2.0	22.00	6.80	4.50	7.60
				4.0	22.00	6.60	4.90	7.70
ZOOPLANKTN	55	07B	07/08/1974	.0	27.10	6.30	11.40	7.70
				2.0	26.90	6.80	11.50	7.70
				4.0	26.90	4.60	12.00	7.70
				6.0	25.00	2.90	12.10	7.70
				8.0	24.40	1.60	12.80	7.70
ZOOPLANKTN	56	11D	07/08/1974	.0	28.00	8.10	16.90	7.60
				2.0	26.50	8.30	16.50	7.60
				4.0	26.00	8.60	16.50	7.60
				6.0	25.30	6.30	16.50	7.60
ZOOPLANKTN	58	11A	07/09/1974	.0	25.20	8.40	12.10	7.70
				2.0	25.00	7.60	12.50	7.70
				4.0	24.40	6.70	14.00	7.70
				6.0	24.00	5.90	15.00	7.70
				8.0	24.00	5.10	15.20	7.70
ZOOPLANKTN	59	10B	07/09/1974	.0	25.40	7.70	10.00	7.60
				2.0	25.00	7.90	12.10	7.70
				4.0	24.10	6.40	14.00	7.70
				6.0	22.20	3.90	19.00	7.70
				8.0	21.50	2.40	20.50	7.70
				10.0	21.00	1.60	22.10	7.70
				11.0	21.00	1.10	22.10	7.70
ZOOPLANKTN	61	05A	07/09/1974	.0	26.50	6.40	4.20	7.70
				2.0	26.10	6.40	4.40	7.70
				4.0	26.00	6.30	4.40	7.70
				6.0	26.00	6.30	4.40	7.70
				8.0	26.00	6.30	4.50	7.70
				9.0	26.00	6.30	4.40	7.70
ZOOPLANKTN	64	11D	09/18/1974	.0	26.50	5.60	21.20	7.90
				1.0	26.20	5.50	21.20	7.90
				2.0	26.80	5.70	21.50	8.00
				4.0	26.50	5.70	21.50	7.90
				6.0	26.50	5.60	21.00	7.90
ZOOPLANKTN	65	07B	09/18/1974	.0	24.50	3.10	14.90	7.00

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	DEPTH METRS C751	TEMP CENTG C752	DISLV OXYGN C753	CONDU CTIVT C754	PH " C755
**								
				2.0	24.00	2.10	15.10	6.80
				4.0	24.00	2.00	15.10	6.80
				6.0	24.00	.60	16.10	6.70
ZOOPLANKTN	66	11A	09/19/1974	.0	23.10	6.20	18.20	7.50
				2.0	23.20	5.90	18.50	7.30
				4.0	23.50	5.40	19.00	7.20
				5.0	23.00	4.50	19.00	7.20
ZOOPLANKTN	68	10B	09/19/1974	.0	23.10	5.90	16.50	7.40
				2.0	23.20	5.60	17.90	7.20
				4.0	23.50	4.50	19.00	7.10
				6.0	23.50	4.00	20.00	7.00
				8.0	24.00	1.90	24.00	7.00
				10.0	24.00	1.10	24.00	7.00
				12.0	23.90	.90	23.90	7.00
ZOOPLANKTN	69	08C	09/19/1974	.0	23.00	7.30	16.50	8.00
				2.0	23.00	7.30	16.10	7.60
				4.0	23.00	7.50	18.00	7.00
				6.0	23.20	3.90	19.00	6.90
				8.0	23.20	3.50	19.00	6.90
				8.5	23.20	3.10	19.00	6.90
ZOOPLANKTN	70	05A	09/19/1974	.0	23.50	6.00	8.70	7.40
				2.0	23.00	5.60	9.50	7.20
				4.0	23.00	5.40	9.60	7.20
				6.0	23.00	5.20	9.80	7.20
				8.0	23.00	5.20	9.80	7.20
ZOOPLANKTN	73	11A	10/24/1974	.0	13.40	10.70	18.60	7.95
				2.0	13.50	10.60	19.00	7.90
				4.0	13.70	10.20	19.50	7.90
				6.0	13.80	10.10	19.50	7.90
				8.0	14.00	9.50	20.00	7.80
ZOOPLANKTN	75	10B	10/24/1974	.0	13.10	10.95	17.80	8.25
				2.0	13.00	10.80	18.00	8.27
				4.0	13.30	10.20	18.20	8.19
				6.0	13.70	9.40	18.50	8.10
				8.0	16.80	6.40	26.90	7.70
				10.0	17.50	6.20	28.10	7.70
ZOOPLANKTN	78	05A	10/24/1974	.0	13.00	10.50	9.30	7.75
				2.0	13.00	10.30	9.50	7.75
				4.0	12.60	10.20	10.00	7.75
				6.0	12.70	9.90	10.90	7.67
				8.0	13.00	9.55	11.10	7.65
ZOOPLANKTN	80	001	11/25/1974	.0	12.00	5.30	1.10	7.90
				2.0	14.00	3.70	1.90	7.70
ZOOPLANKTN	81	002	11/25/1974	.0	10.00	3.50	2.00	8.20
				2.0	10.00	3.50	2.00	8.20
				4.0	10.00	3.70	1.90	8.30
				6.0	10.00	3.70	1.90	8.10
ZOOPLANKTN	82	003	11/25/1974	.0	9.00	3.30	1.80	8.20
				2.0	10.00	3.50	1.90	8.20
				4.0	10.00	3.50	1.90	8.50

MARINE BIOLOGY DEPTH PROFILE
75/07/18.

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	DEPTH METRS C751	TEMP CENTG C752	DISLV OXYGN C753	CONDU CTIVT C754	PH " C755
**				6.0	10.00	3.70	1.90	8.50
				7.0	10.00	3.80	1.90	8.60
ZOOPLANKTN	83	005	11/25/1974	.0	9.00	4.00	1.20	8.80
				2.0	10.00	4.10	1.70	8.40
				4.0	9.00	3.60	1.80	8.30
ZOOPLANKTN	84	11A	11/27/1974	.0	7.60	6.95	21.00	7.40
				2.0	7.50	6.60	21.00	7.45
				4.0	7.60	6.60	20.90	7.50
				6.0	8.50	6.55	21.20	7.49
				8.0	8.80	6.12	22.50	7.40
ZOOPLANKTN	85	11C	11/27/1974	.0	6.80	7.45	18.00	7.55
				2.0	6.80	7.20	18.00	7.55
				4.0	7.90	7.00	20.00	7.50
				6.0	8.90	6.70	20.50	7.50
				8.0	10.00	6.35	23.00	7.40
				10.0	11.00	6.10	25.00	7.50
				12.0	11.50	5.80	26.00	7.50
ZOOPLANKTN	87	05A	11/27/1974	.0	6.80	7.40	7.20	7.60
				2.0	6.80	7.30	7.30	7.60
				4.0	6.50	7.25	7.50	7.62
				6.0	6.50	7.25	7.50	7.60
				8.0	6.50	7.20	8.40	7.50
ZOOPLANKTN	89	11A	12/17/1974	.0	5.50	5.90	13.50	8.00
				2.0	5.50	5.90	14.50	7.90
				4.0	6.00	5.90	16.50	8.00
				6.0	6.00	5.90	17.00	8.00
				8.0	6.30	5.80	18.50	8.00
ZOOPLANKTN	91	10B	12/17/1974	.0	4.80	6.10	8.60	7.70
				2.0	5.00	6.20	8.90	7.70
				4.0	5.70	6.20	15.00	7.90
				6.0	6.00	6.00	16.00	7.90
				8.0	7.00	5.80	21.50	7.90
				10.0	7.50	5.30	25.50	7.90
				12.0	7.50	5.15	25.50	7.90
ZOOPLANKTN	93	05A	12/17/1974	.0	4.70	6.40	4.70	7.70
				2.0	4.60	6.10	4.90	7.70
				4.0	4.70	6.20	6.50	7.70
				6.0	5.00	6.10	8.20	7.60
				8.0	5.40	6.00	9.80	7.60
				10.0	5.50	5.80	11.50	7.60
ZOOPLANKTN	94	03B	12/18/1974	.0	4.30	6.40	5.30	7.60
				2.0	4.30	6.30	5.30	7.70
				4.0	4.30	6.30	5.20	7.60
				6.0	4.40	6.40	5.20	7.60
				8.0	4.30	6.40	5.10	7.60
ZOOPLANKTN	95	01A	12/18/1974	.0	3.50	6.70	1.40	7.50
				2.0	3.50	6.70	1.40	7.50
				4.0	3.50	6.70	1.40	7.50
				6.0	3.50	6.70	1.40	7.50
				8.0	3.50	6.70	1.30	7.50

MARINE BIOLOGY DEPTH PROFILE 5
75/07/18.

SAMPLE TYPE C701	SAMP NUMB C703	STAT ION C702	DATE MM DD YY C705	DEPTH METRS C751	TEMP CENTG C752	DISLV OXYGN C753	CONDU CTIVT C754	PH " C755
**				10.0	3.50	6.80	1.40	7.60

APPENDIX A

SUPPLEMENTARY DATA ON HYDROLOGY AND METEOROLOGY

Appendix A supplements Volume II, Chapter 5, on Hydrology and Meteorology by K.T.S. Tzou. While reference may be made to the following pages in Chapter 5, they do not enter directly into the discussion of the text. They are inserted here for that reason and to consolidate this basic data with the other data base information in Volume III.

Please note that the water column parameters depicted on Pages A-53 through A-82 include density, which is expressed in sigma-t units, not grams per 1,000 cubic centimeters as noted.

K. T. S. Tzou
Westinghouse Electric Corporation

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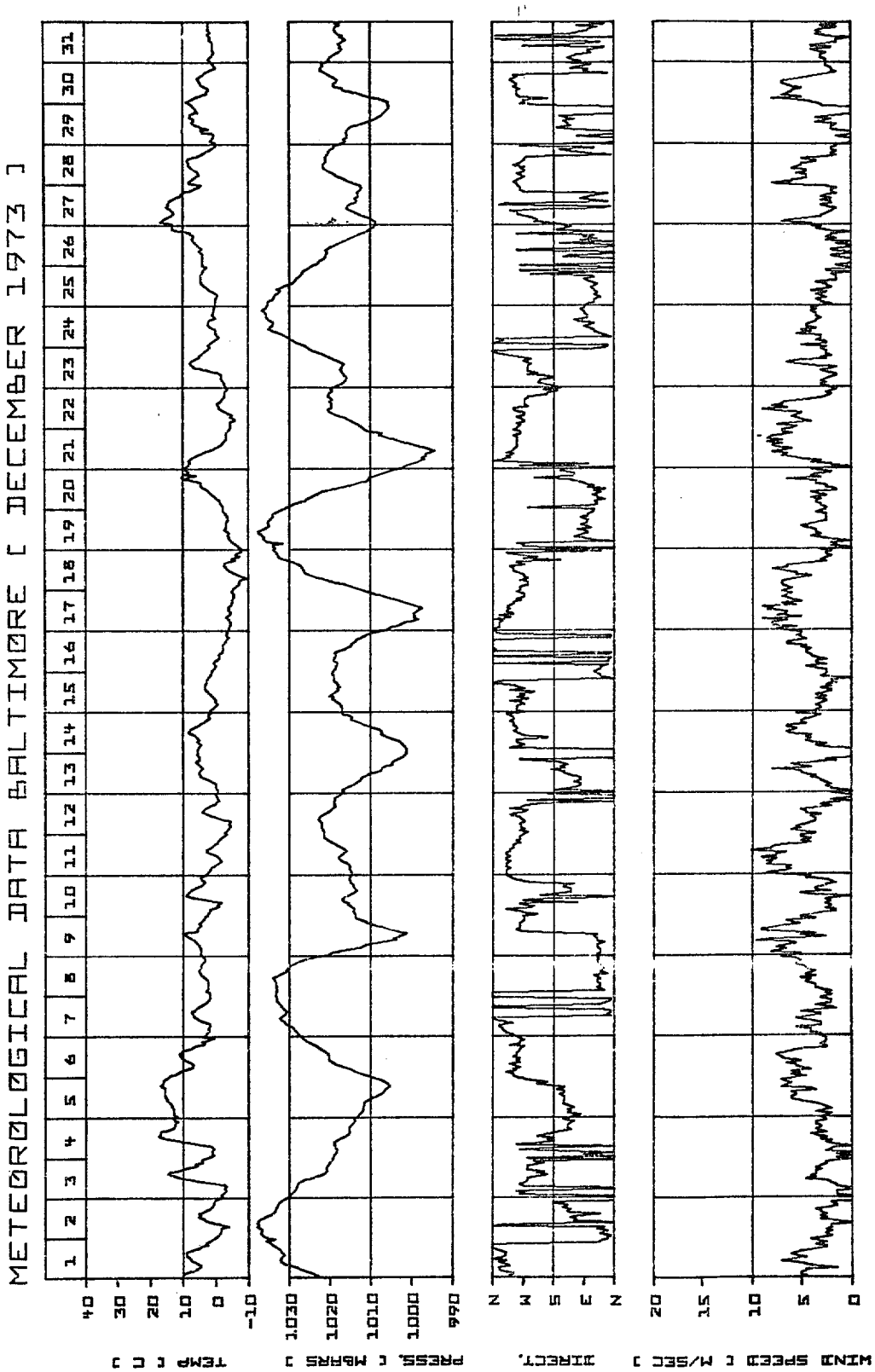
1. METEOROLOGICAL DATA

1.1 Air Temperature, Barometric Pressure, Wind Speed and Direction



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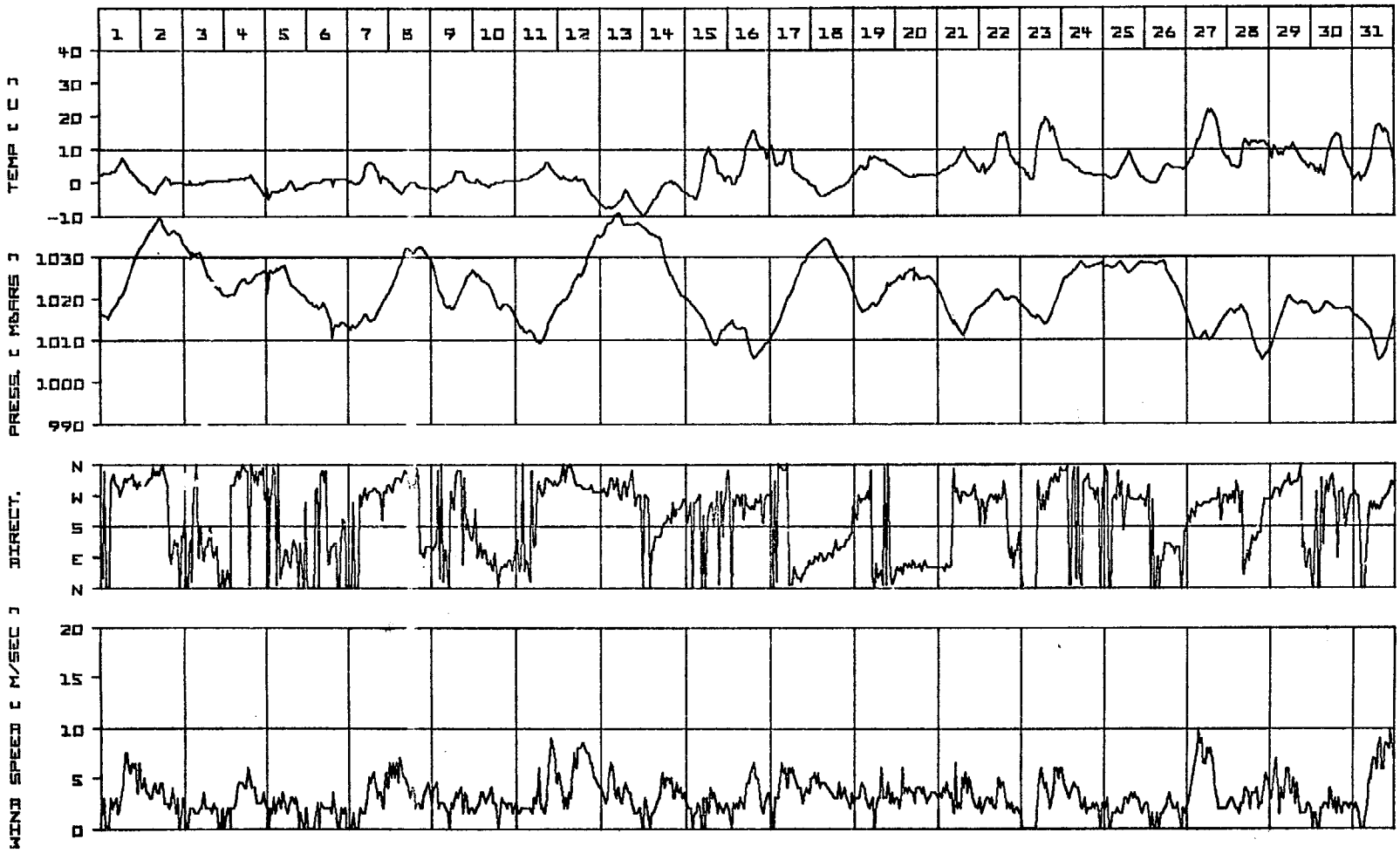

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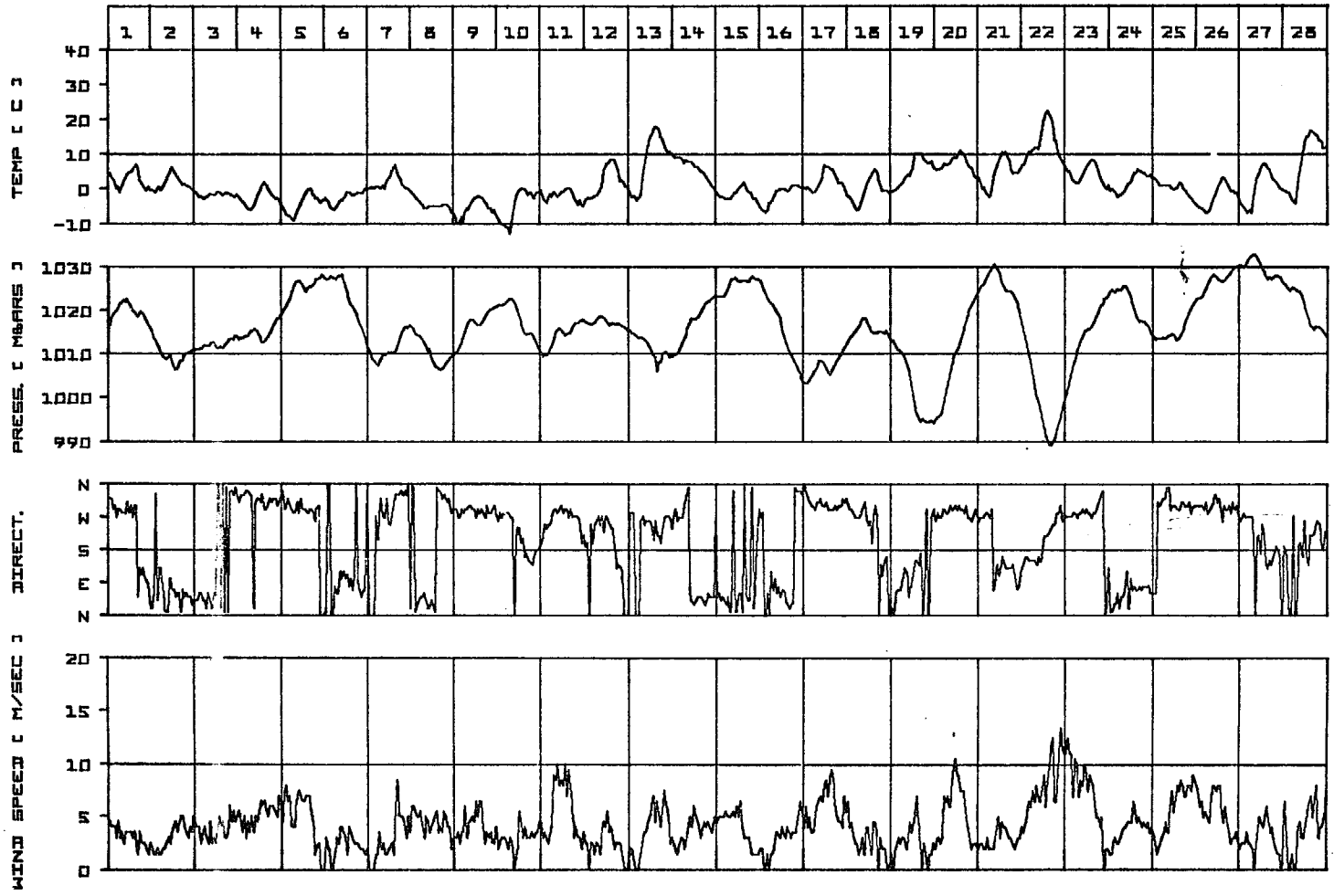

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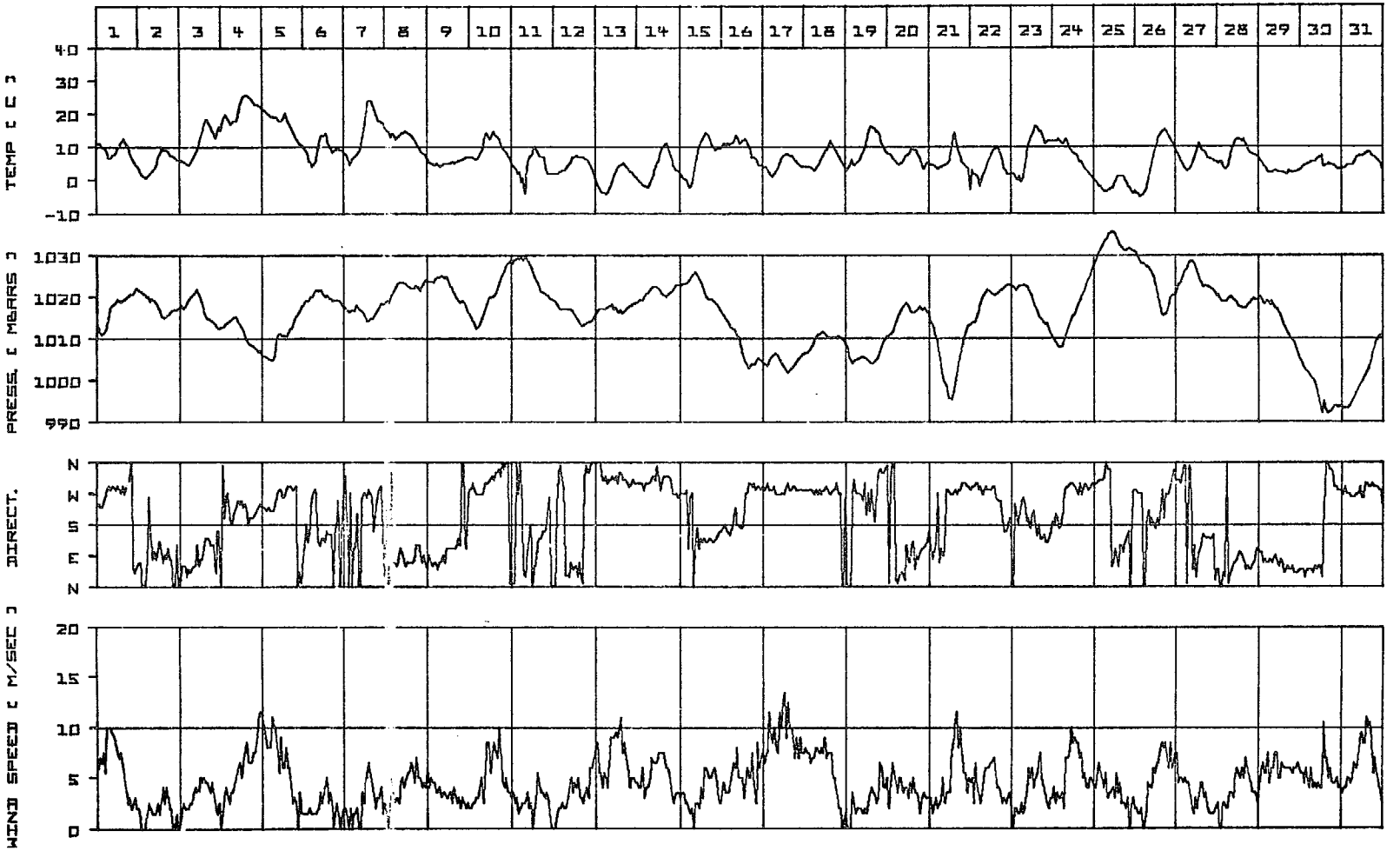

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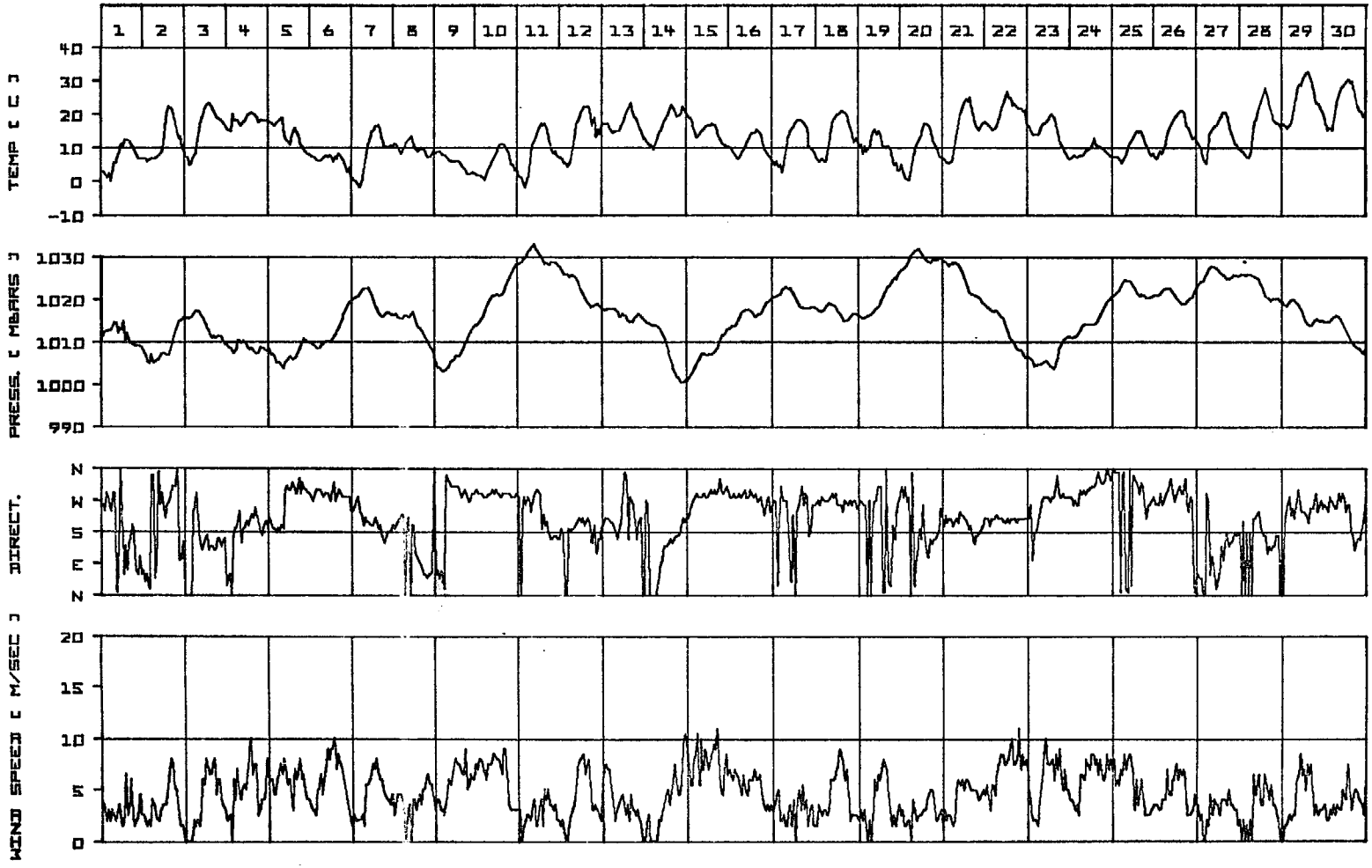

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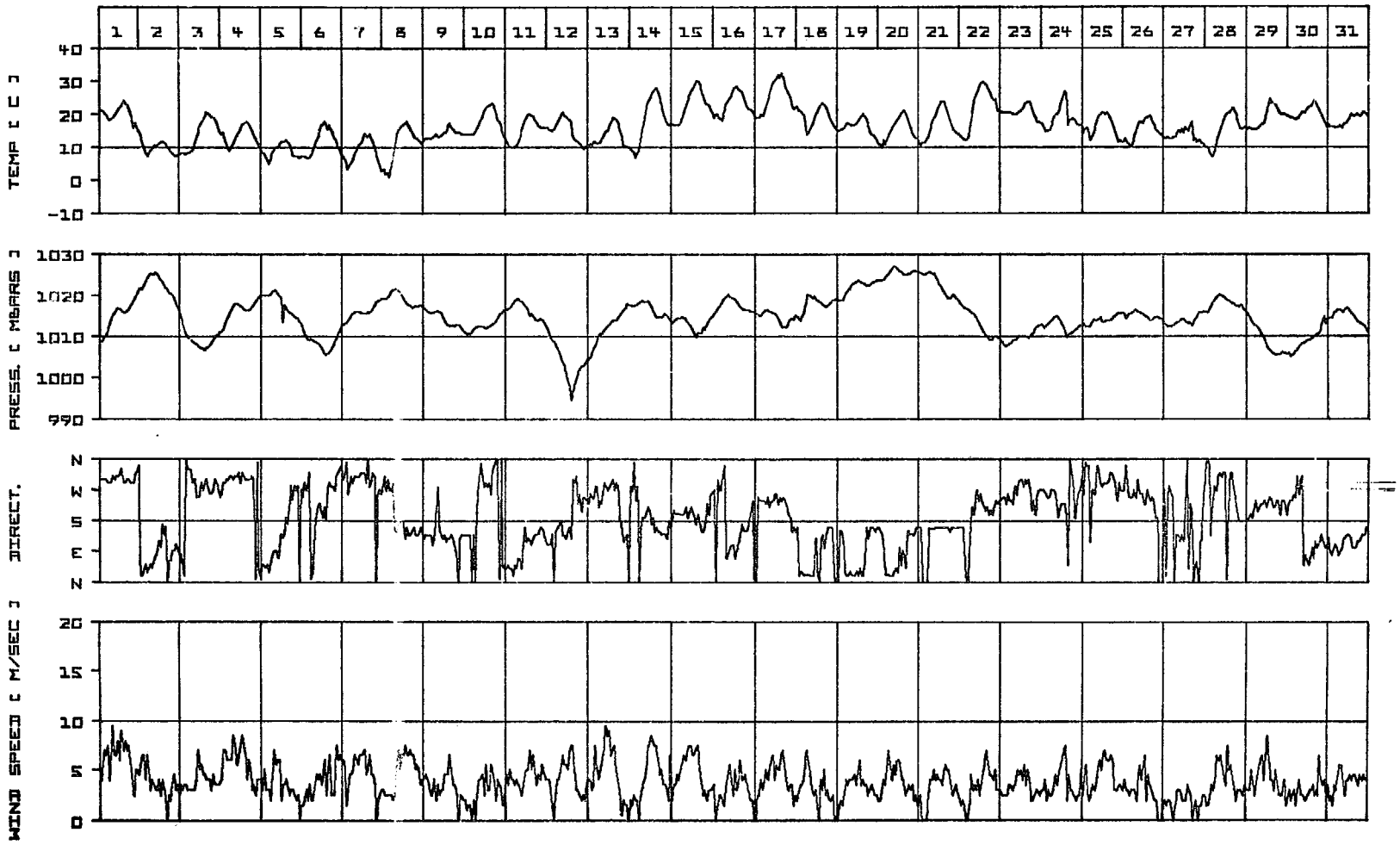

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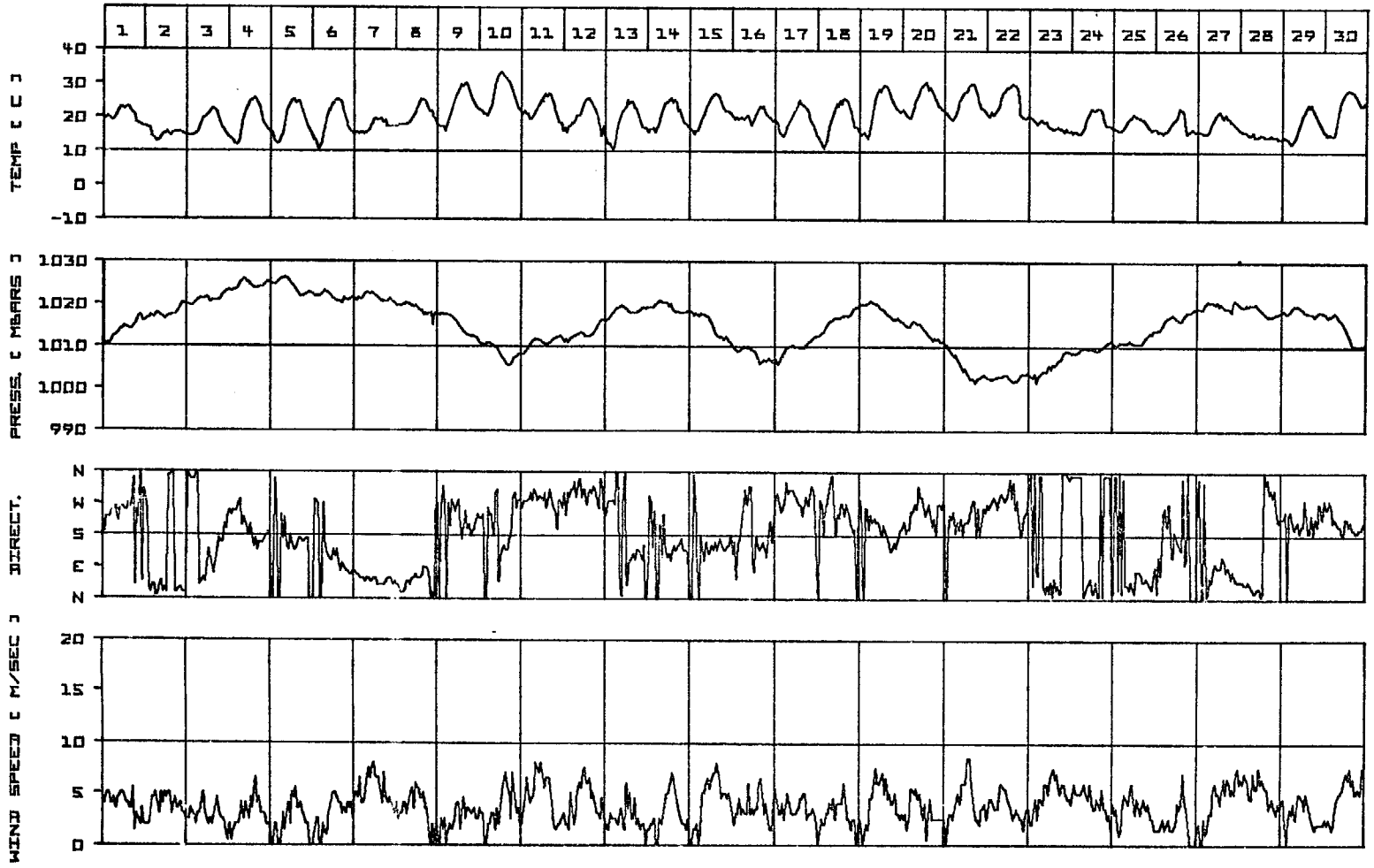

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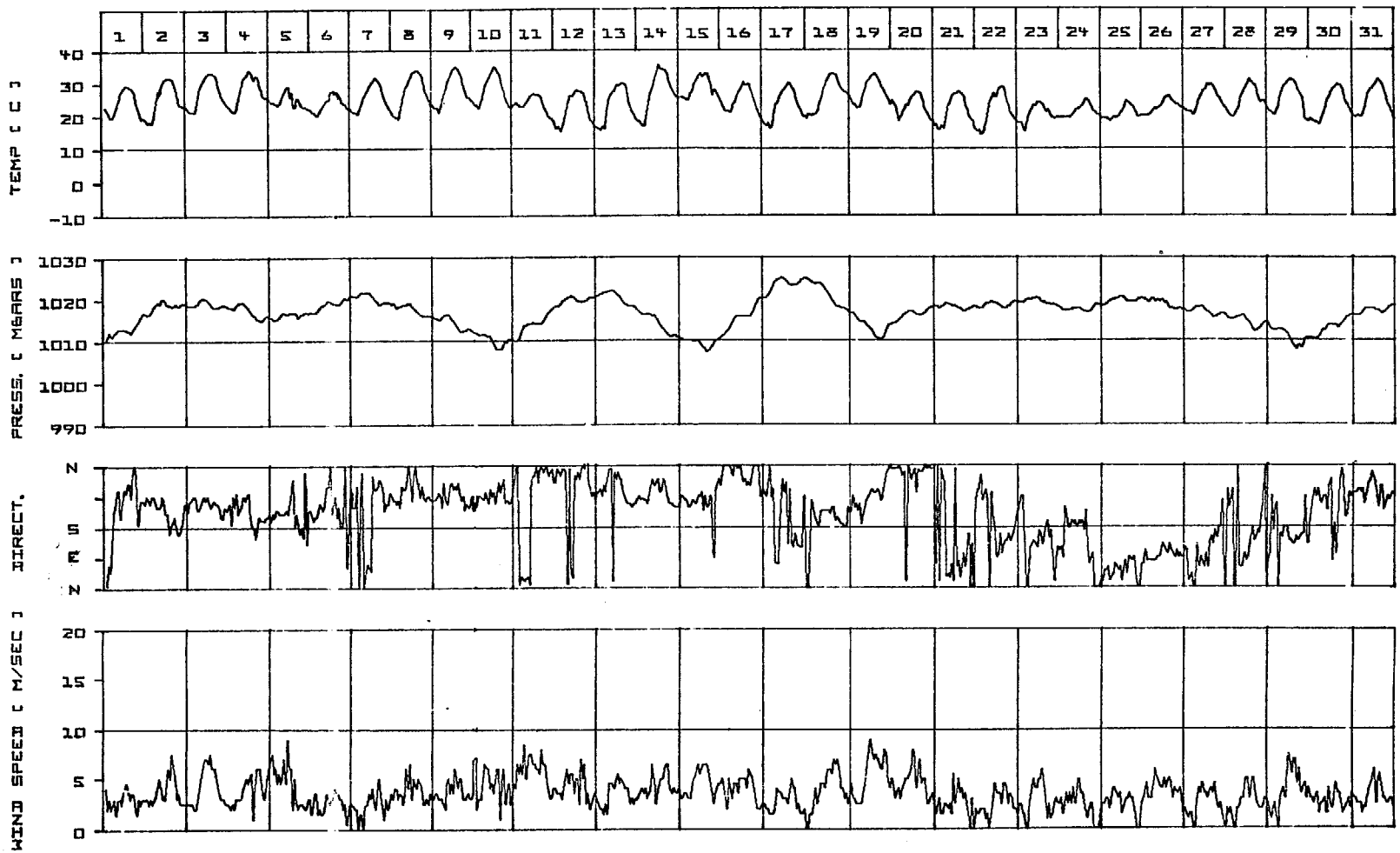
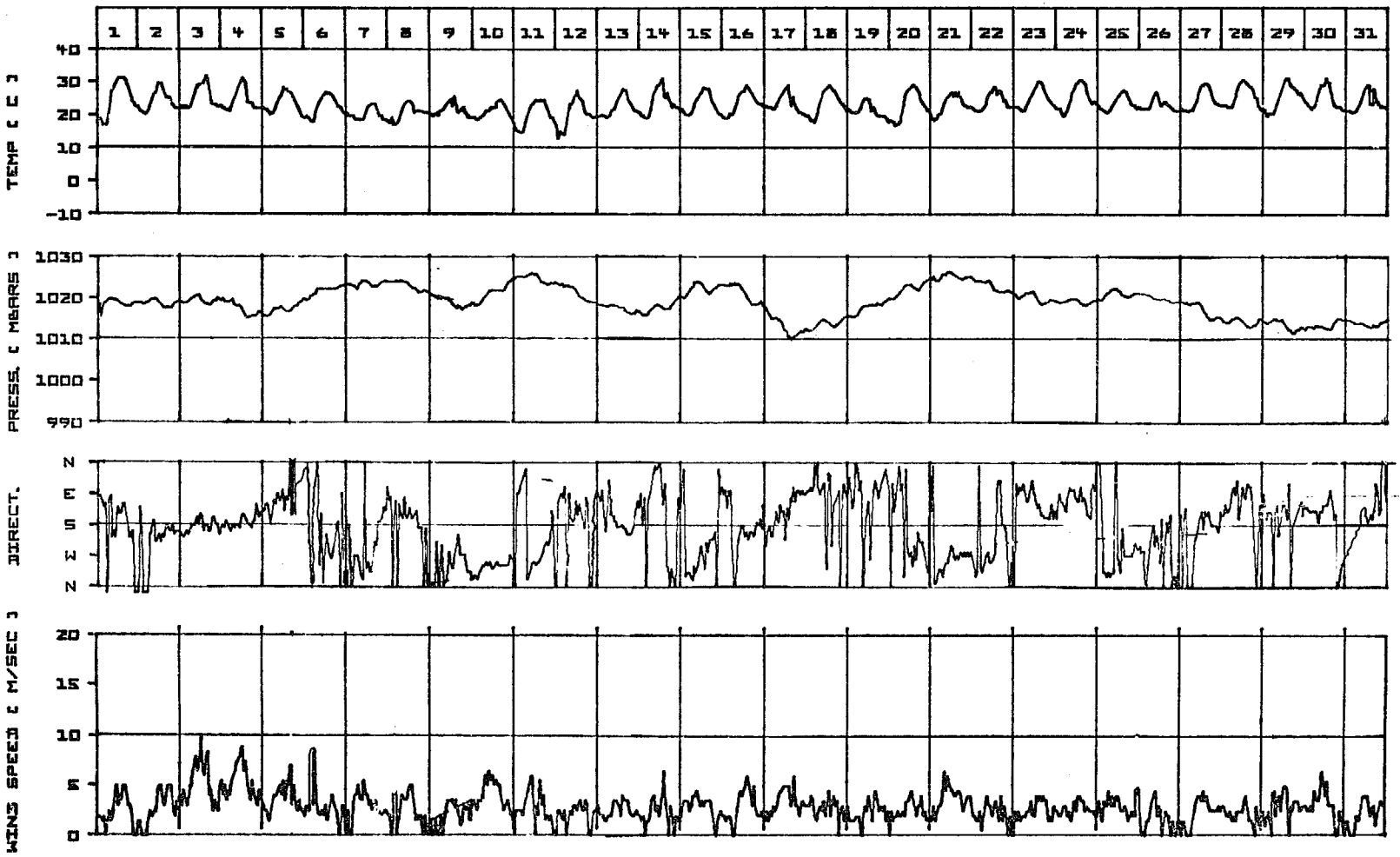
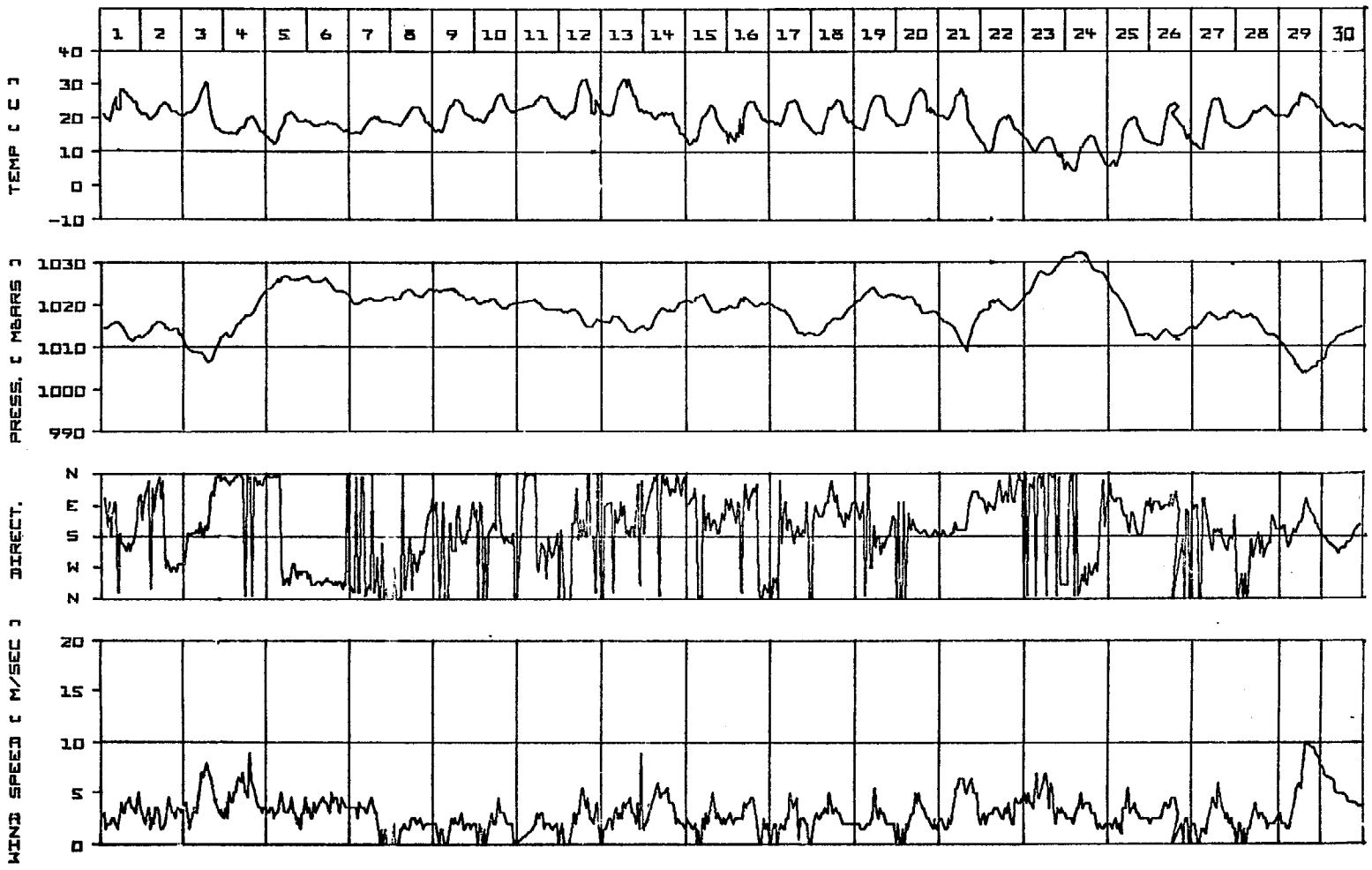


METEØRØLØGICAL DATA BALTIMØRE AUGUST [1974]



METEOROLOGICAL DATA BALTIMORE SEPTEMBER [1974]



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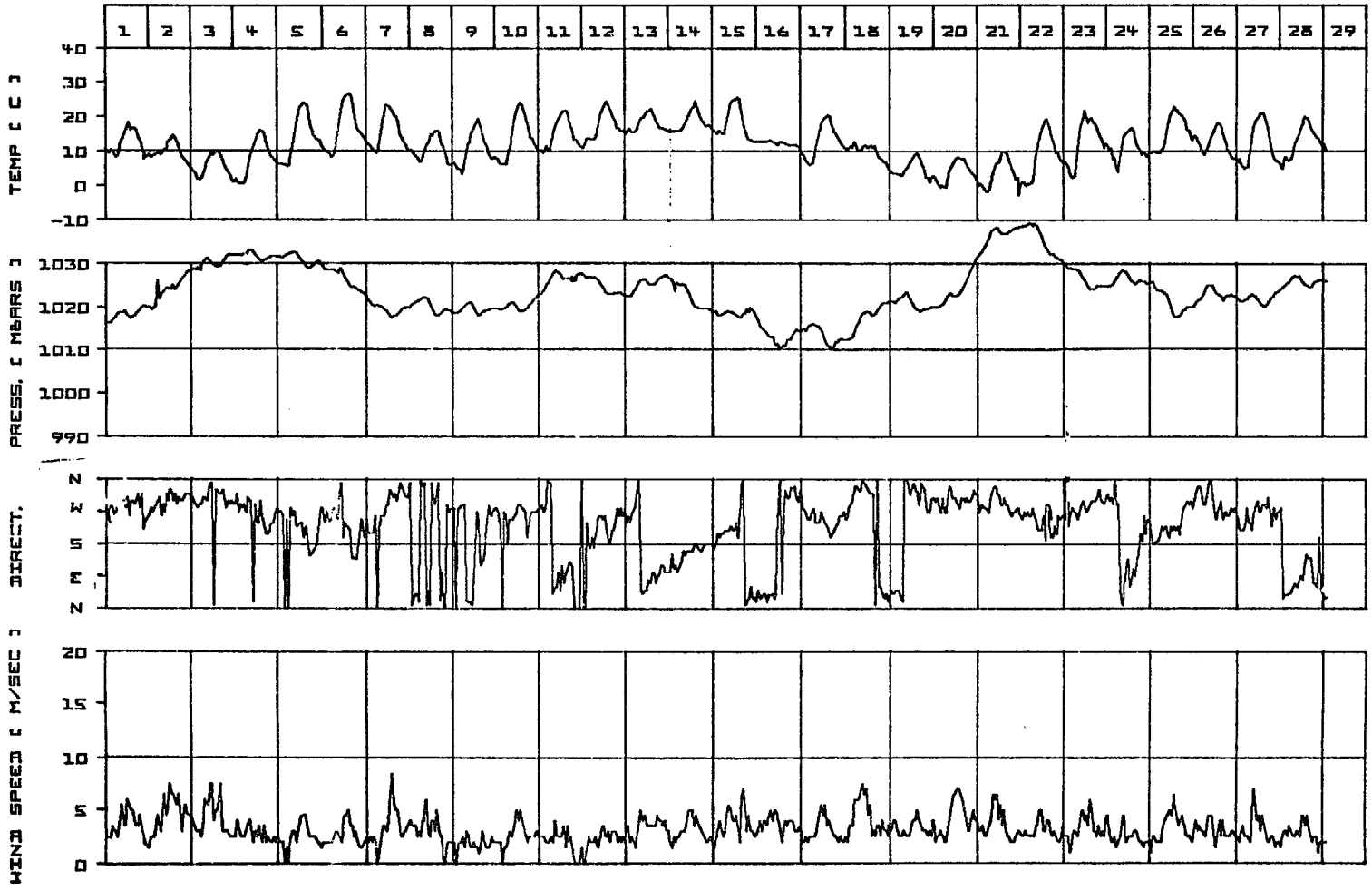

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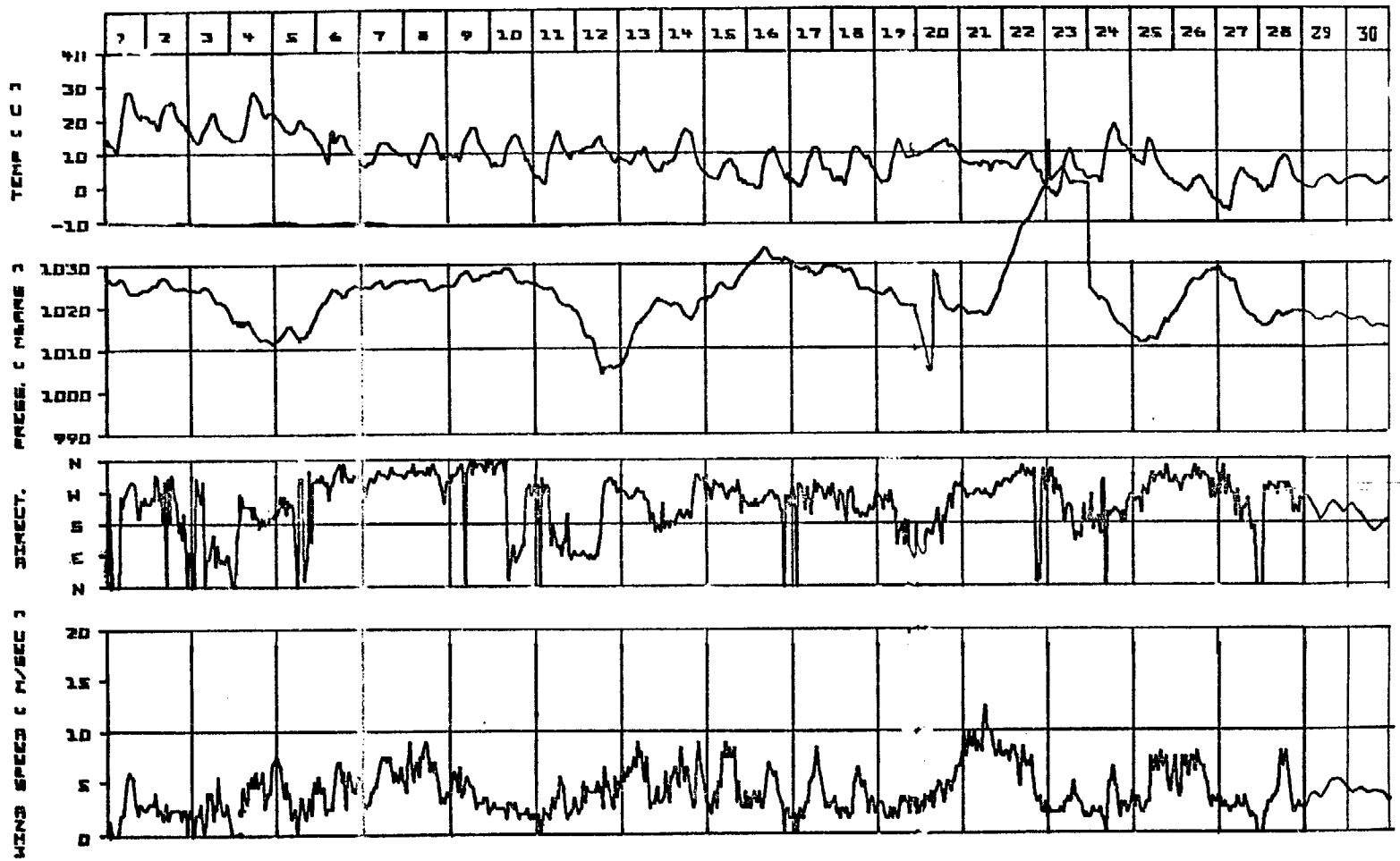

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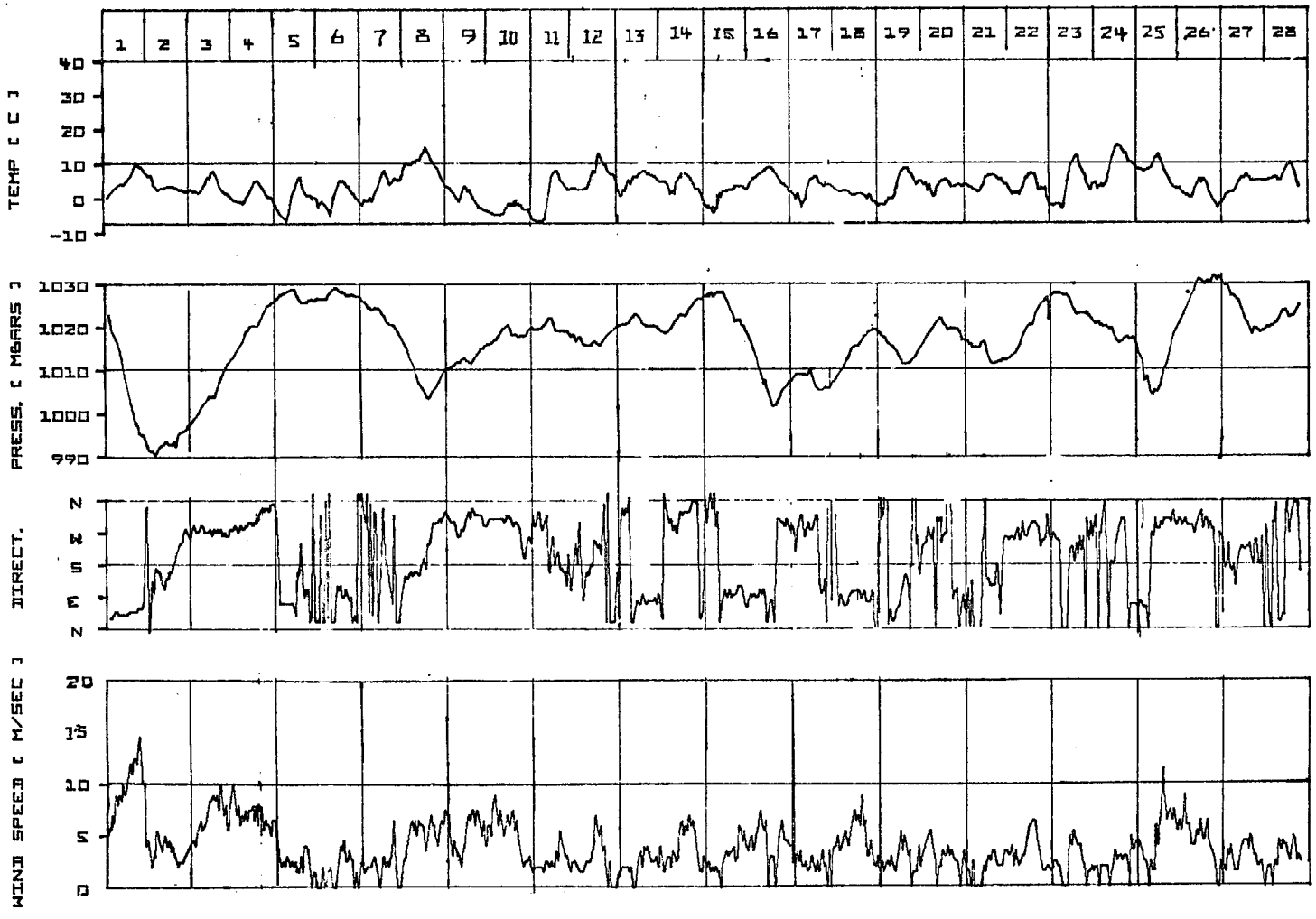
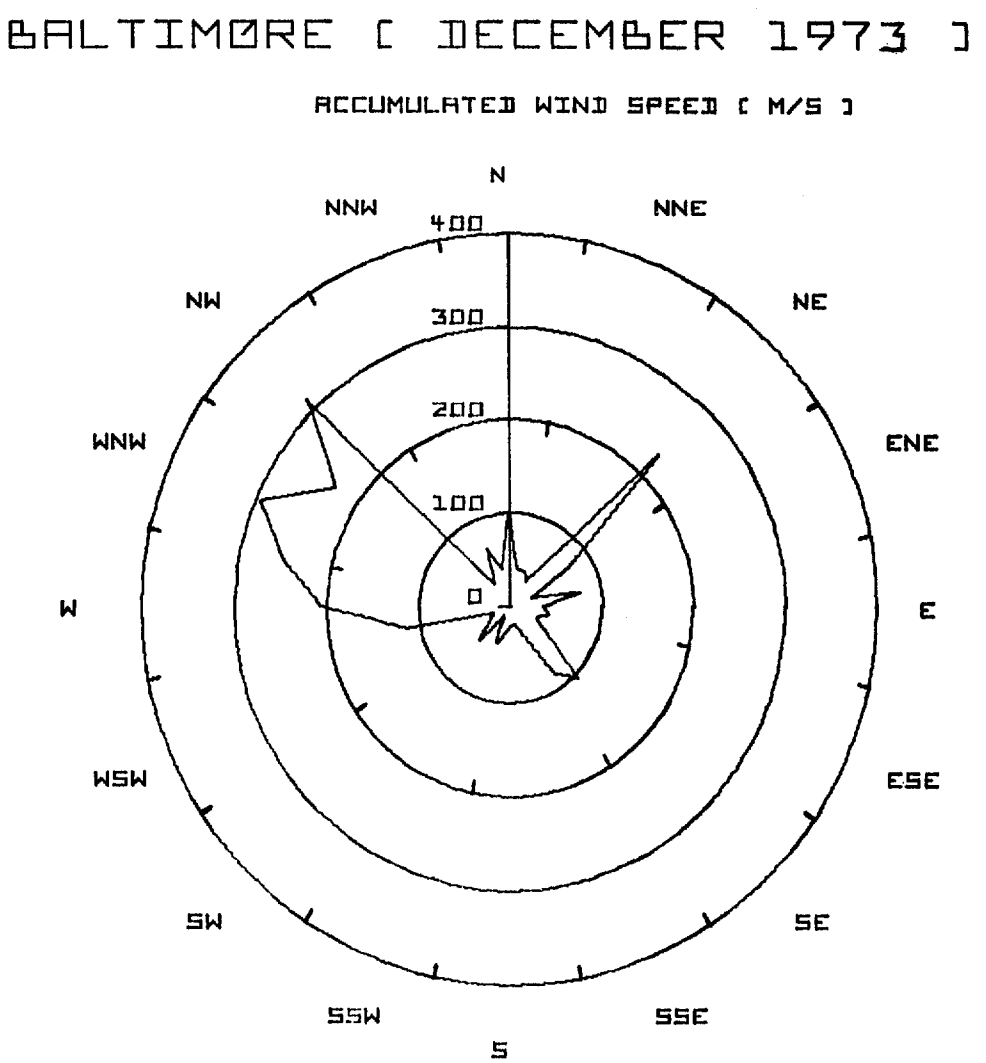
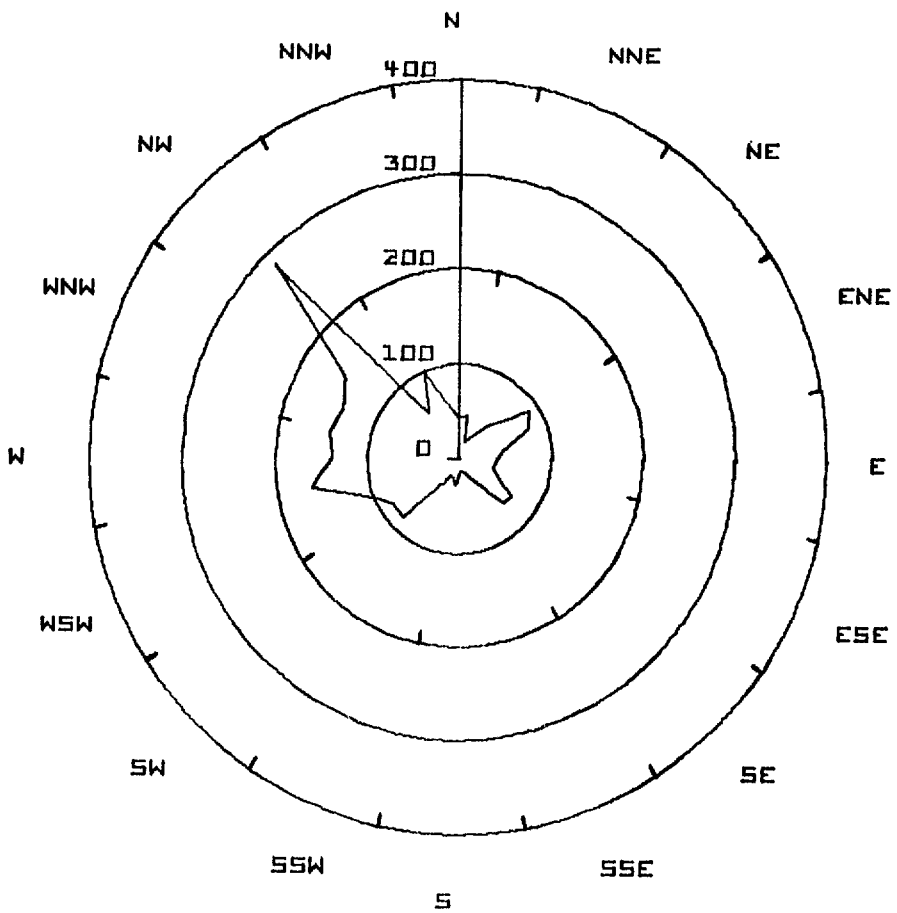


1.2 Monthly Wind Roses



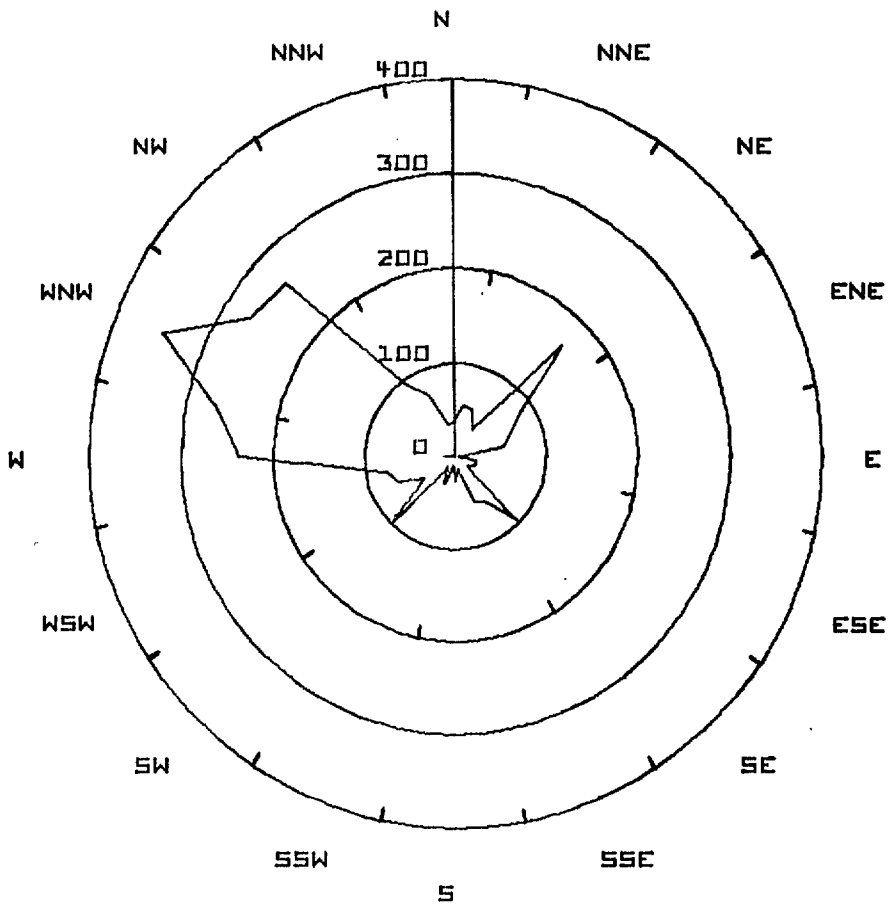
BALTIMORE [JANUARY 1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE [FEBRUARY 1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE [MARCH 1974]

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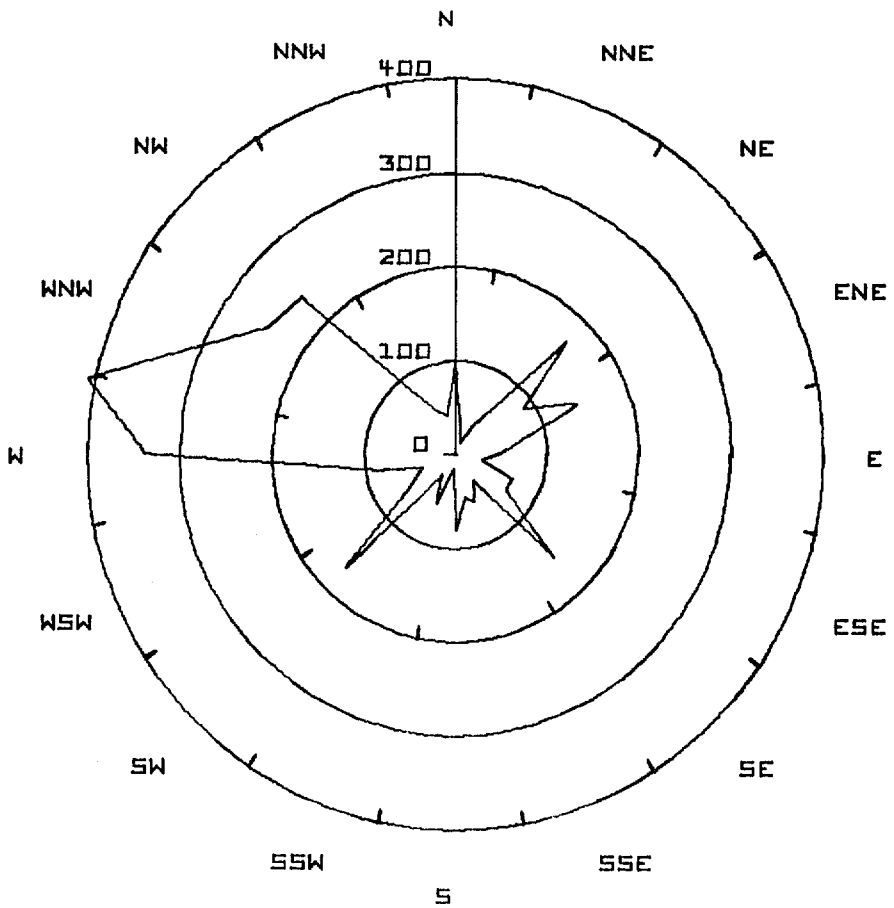
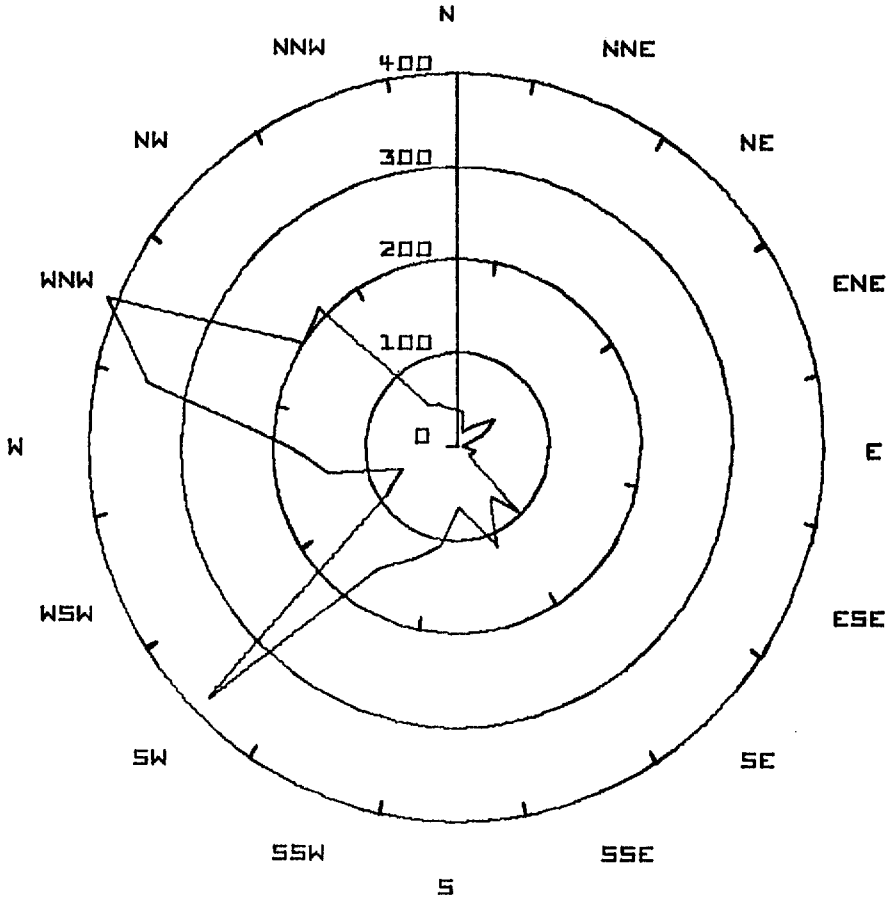


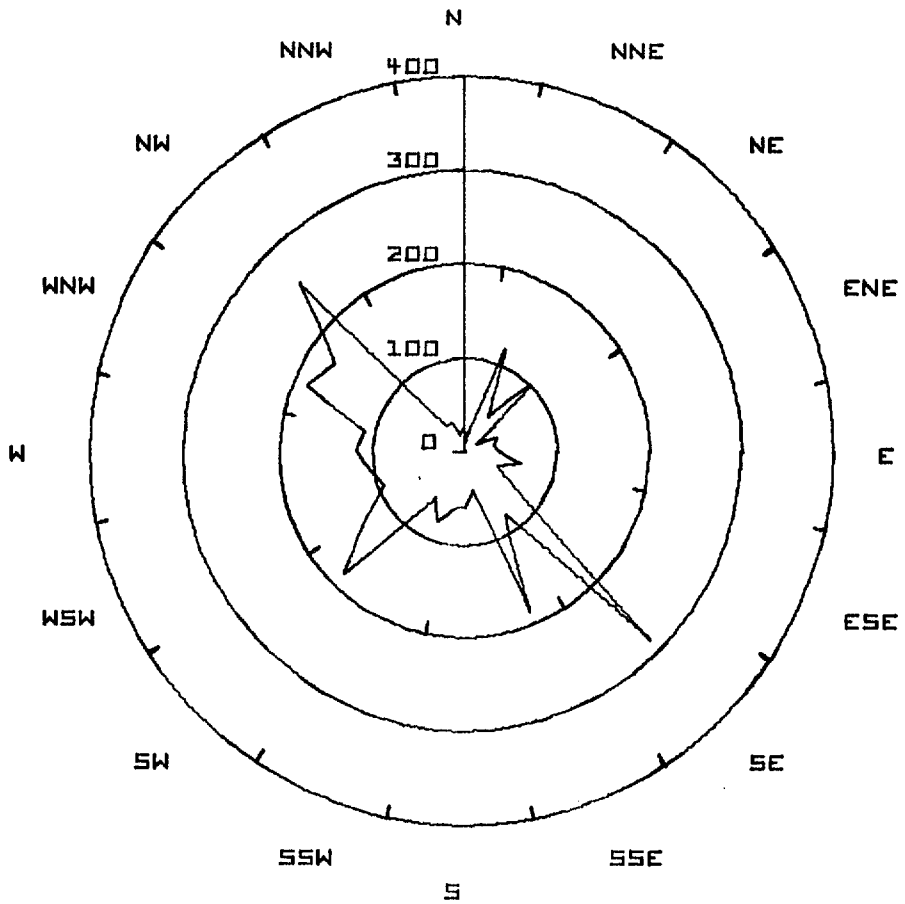
BALTIMORE [APRIL 1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE [MAY 1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE [JUNE 1974]

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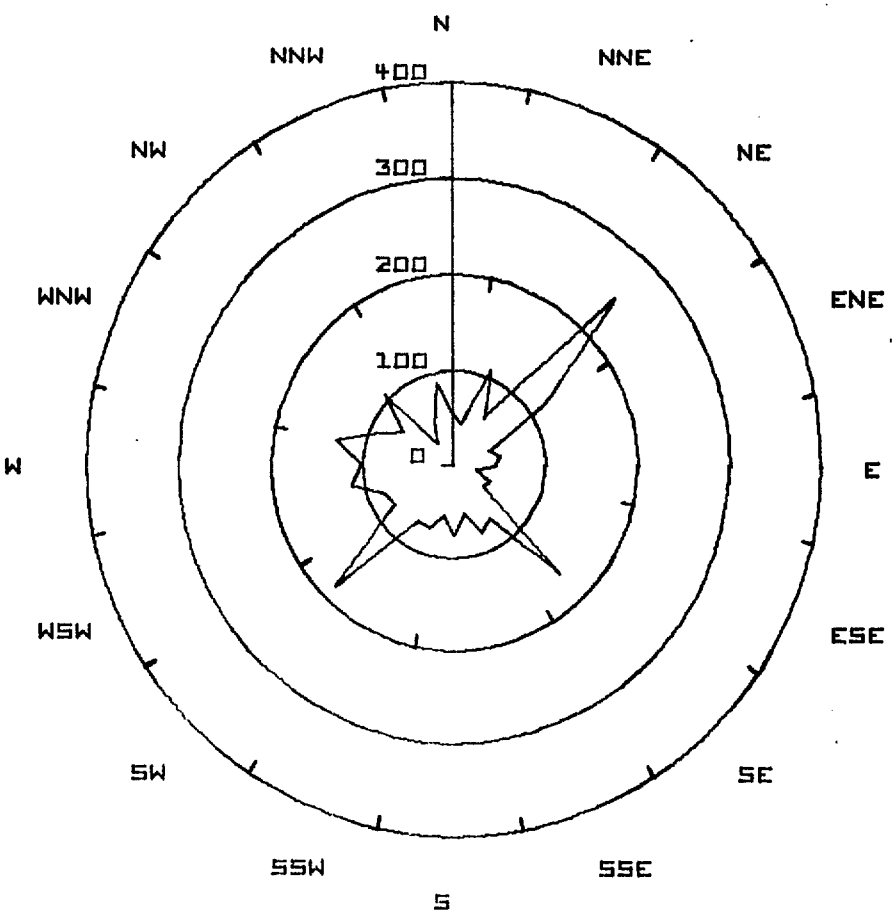

BALTIMORE [JULY 1974]

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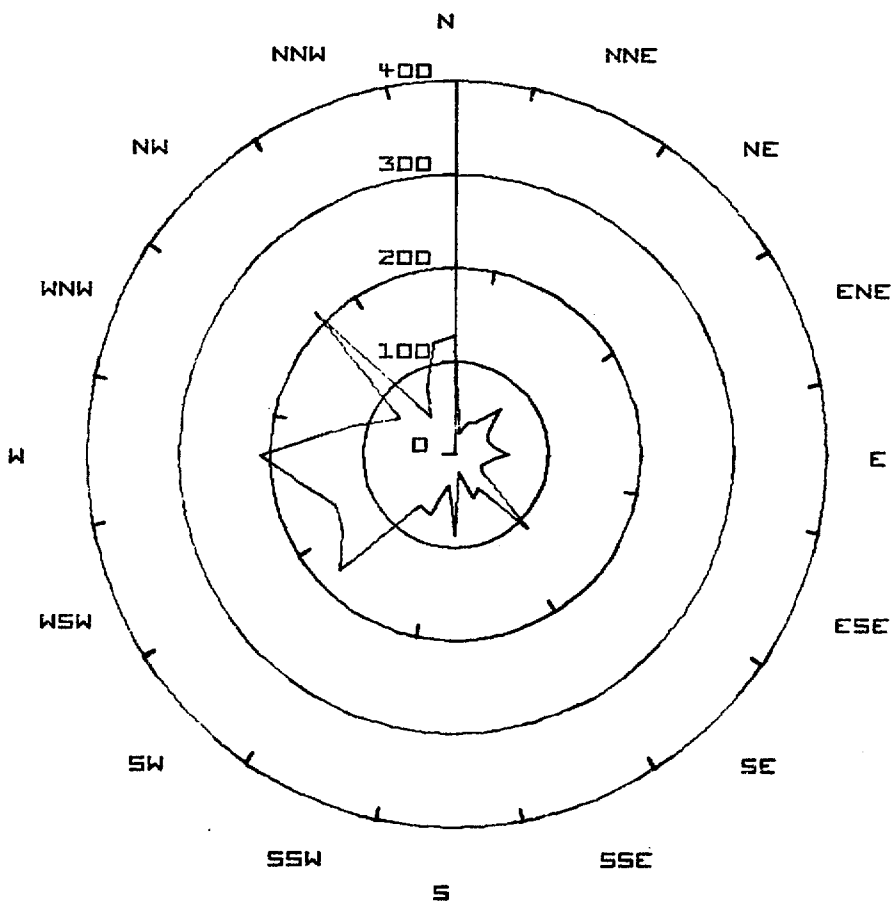
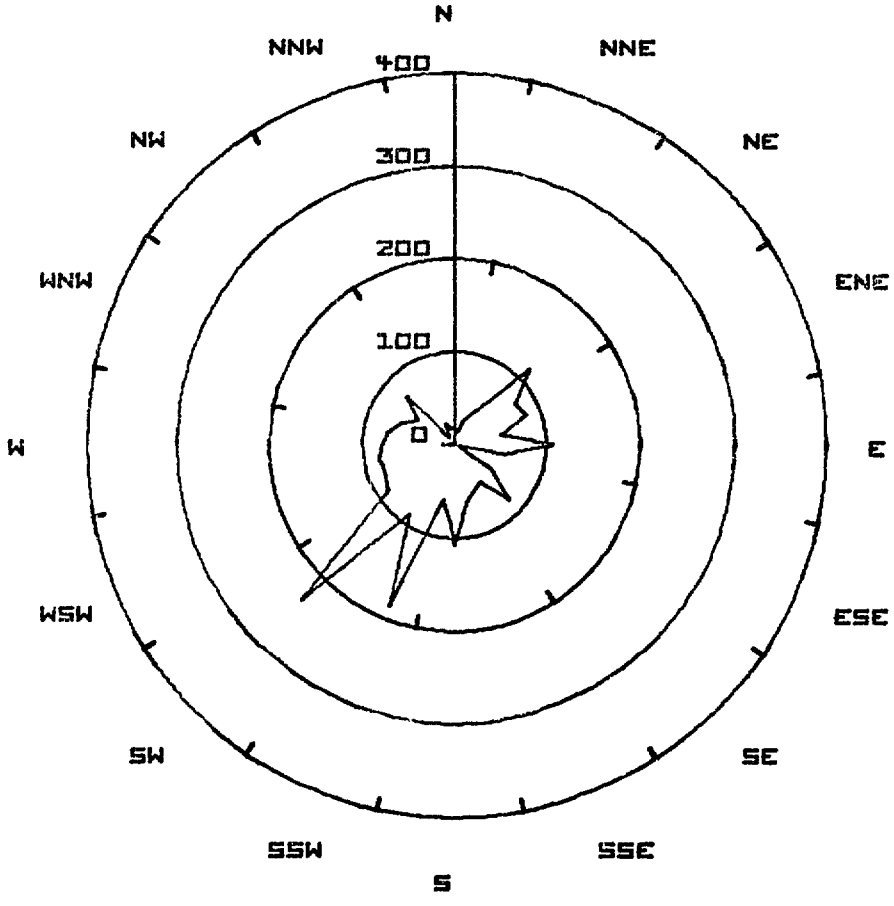


BALTIMORE AUGUST [1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE SEPTEMBER [1974]

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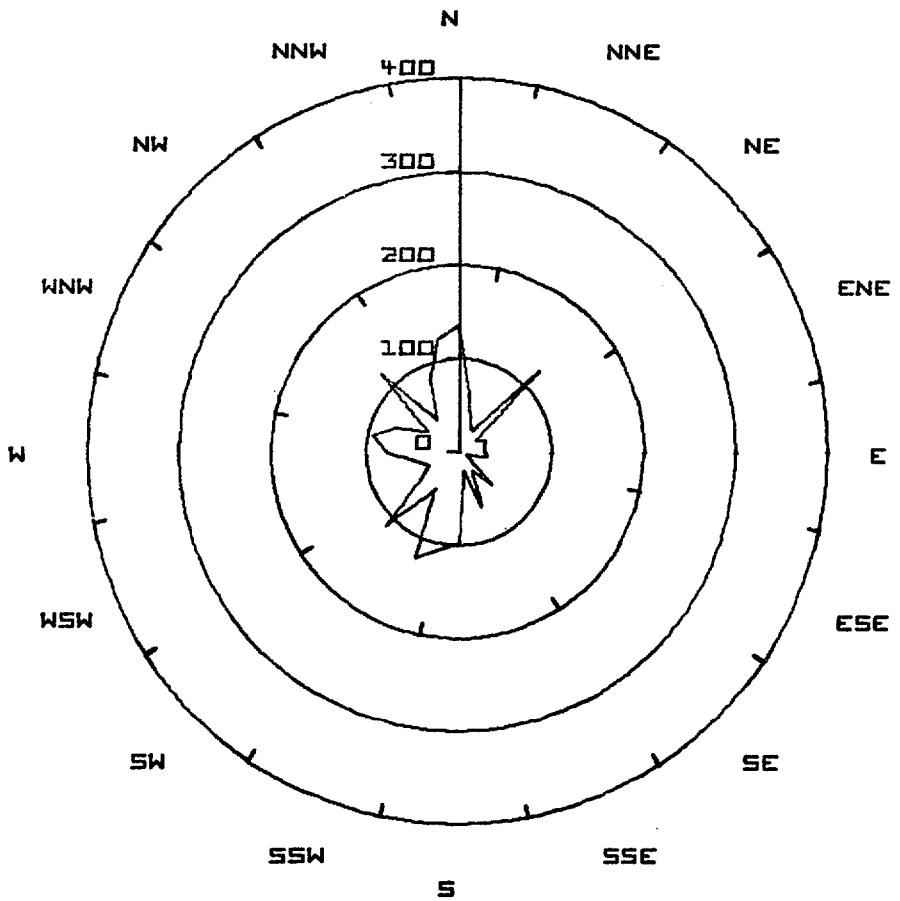
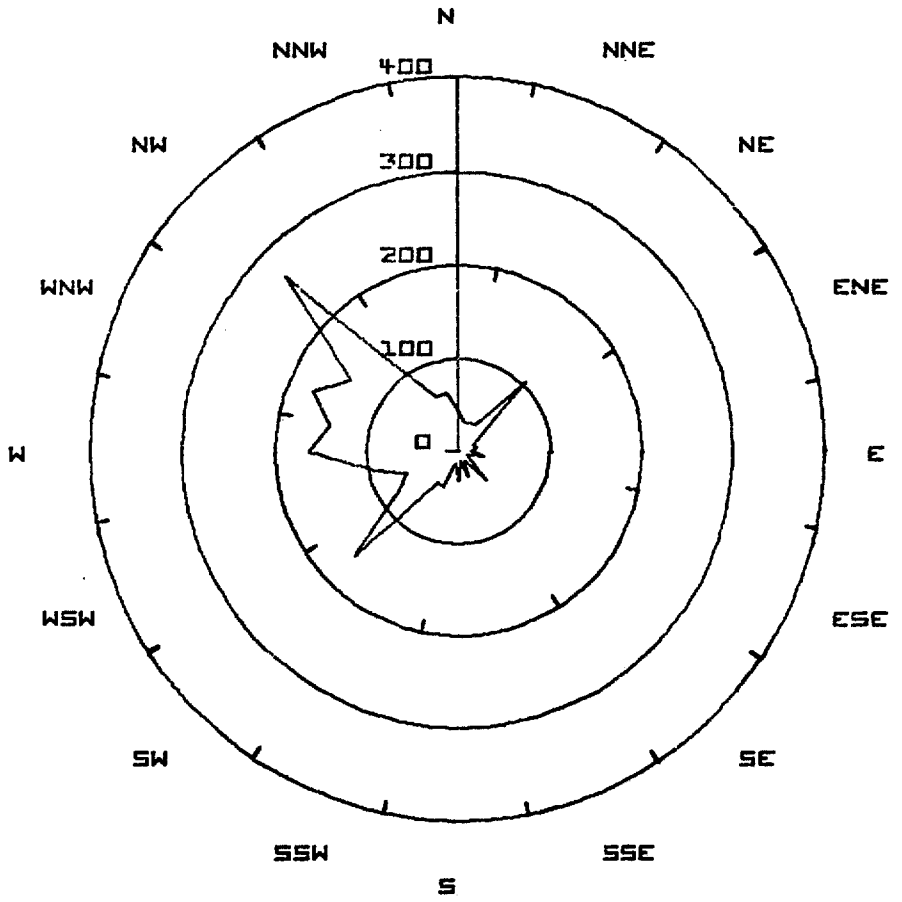


BALTIMORE OCTOBER [1974]

ACCUMULATED WIND SPEED [M/S]



BALTIMORE NOVEMBER [1974]

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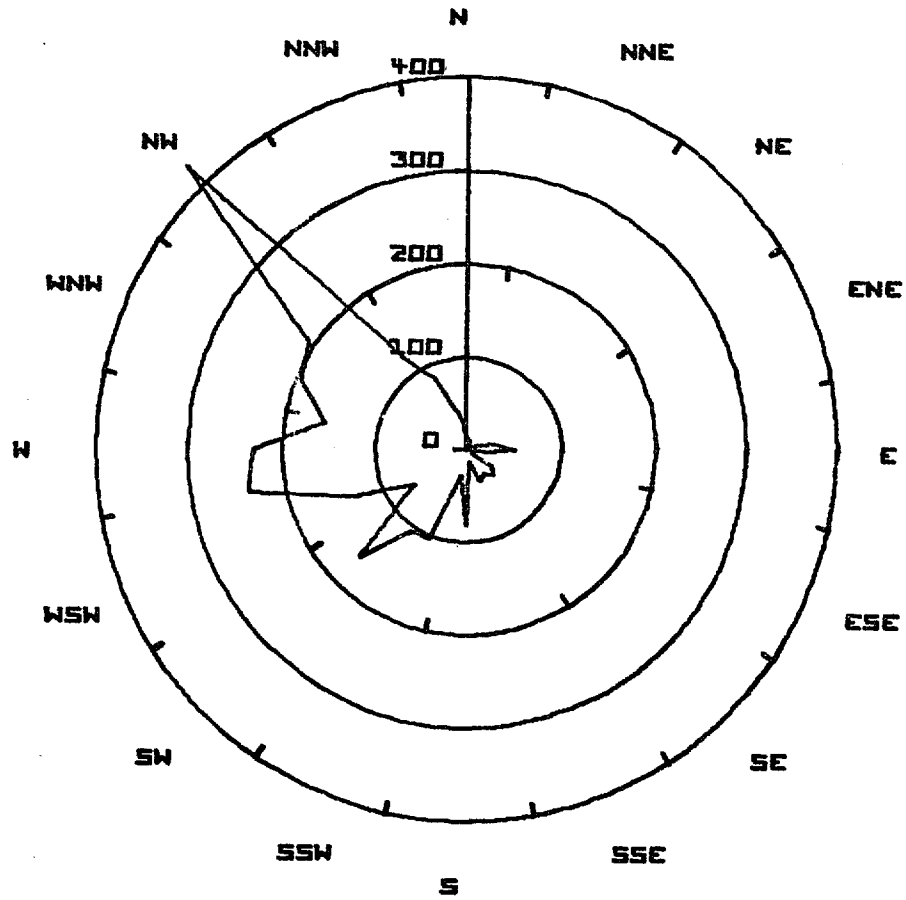
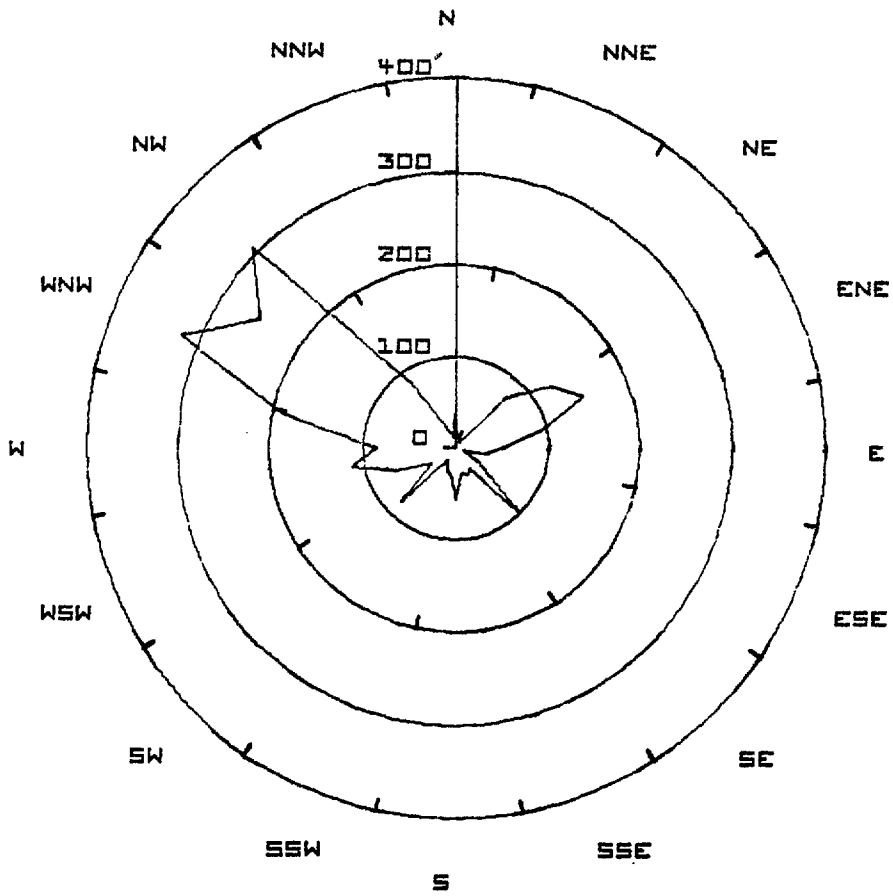
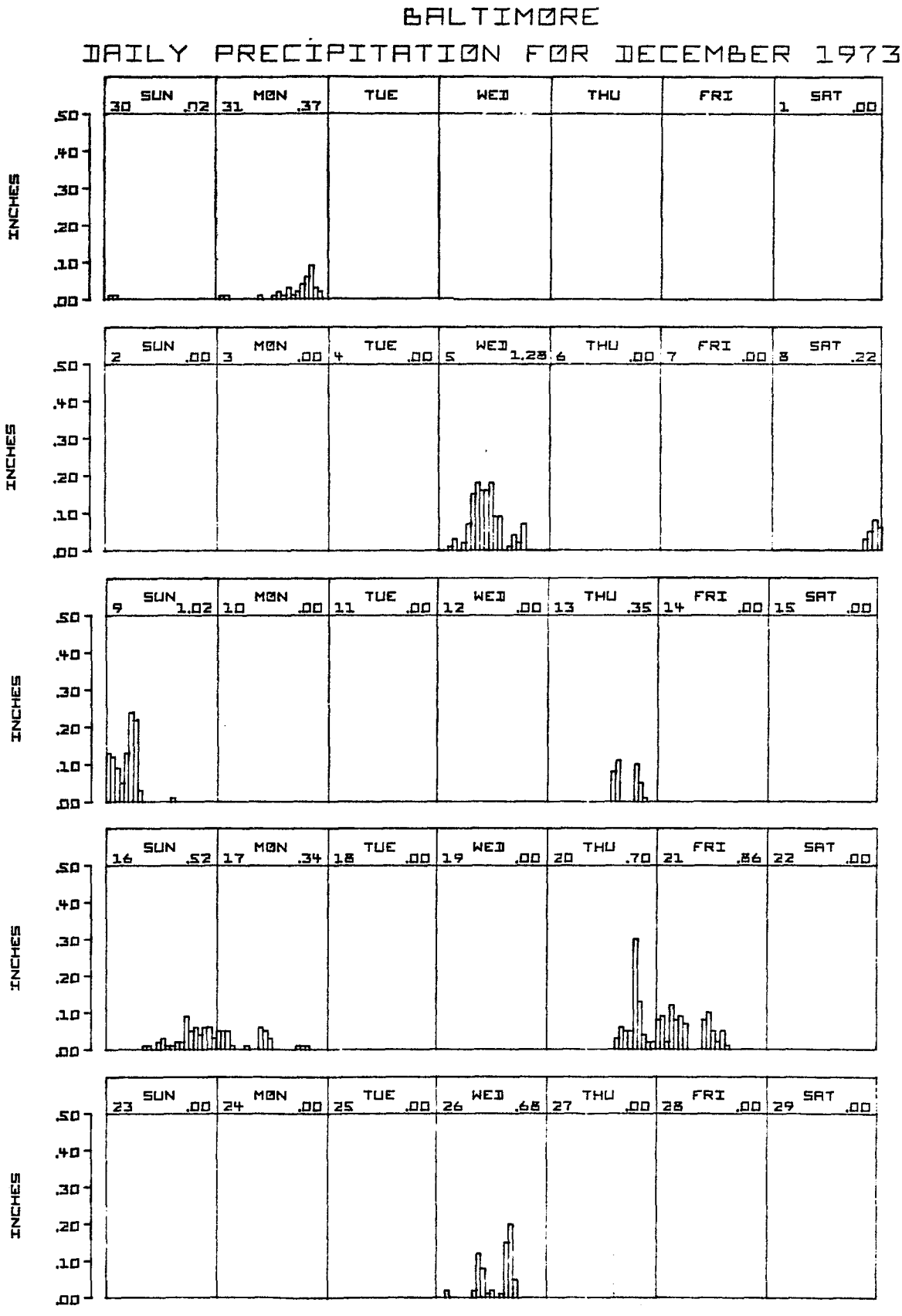


BALTIMORE DECEMBER [1974]

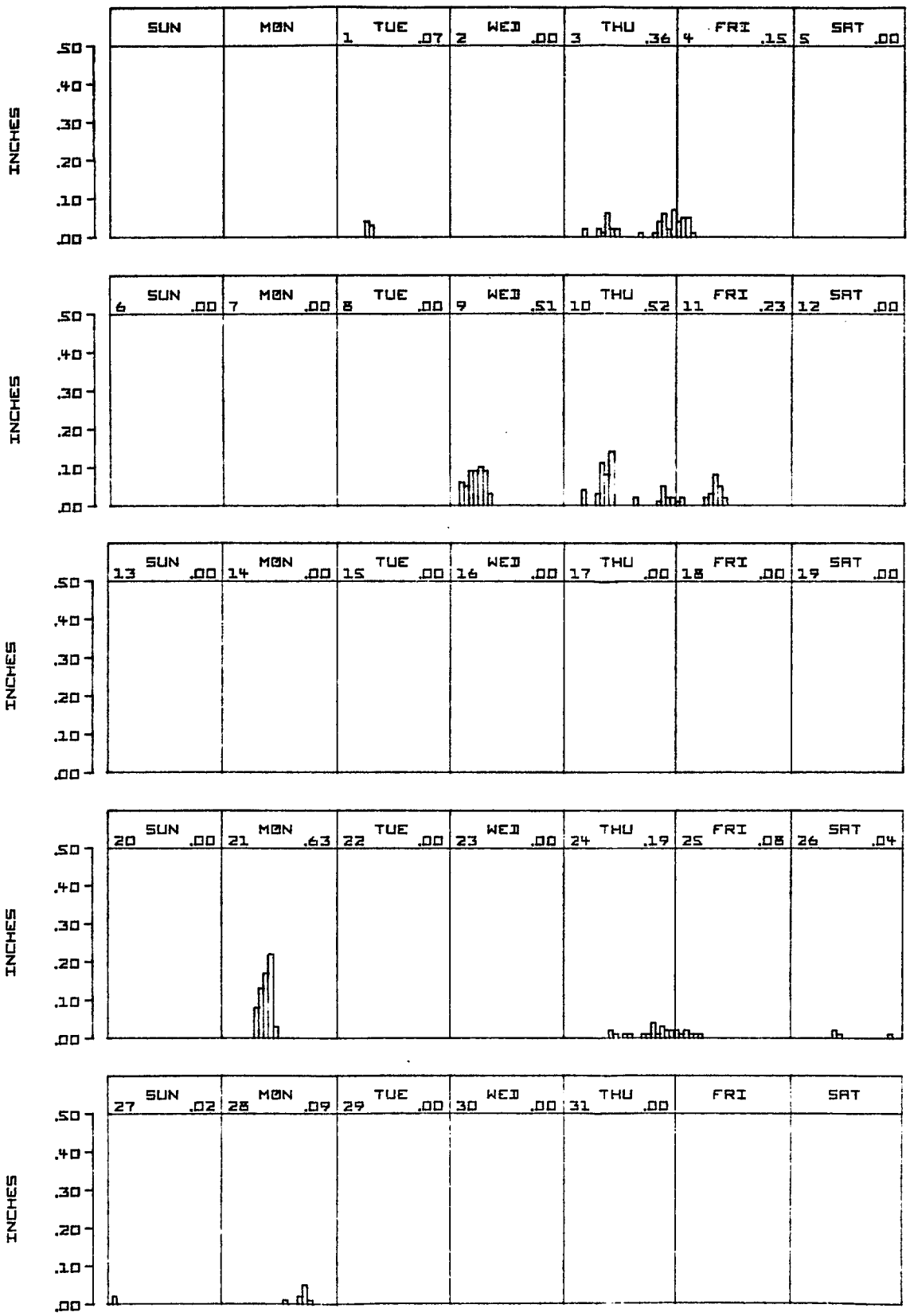
ACCUMULATED WIND SPEED [M/S]



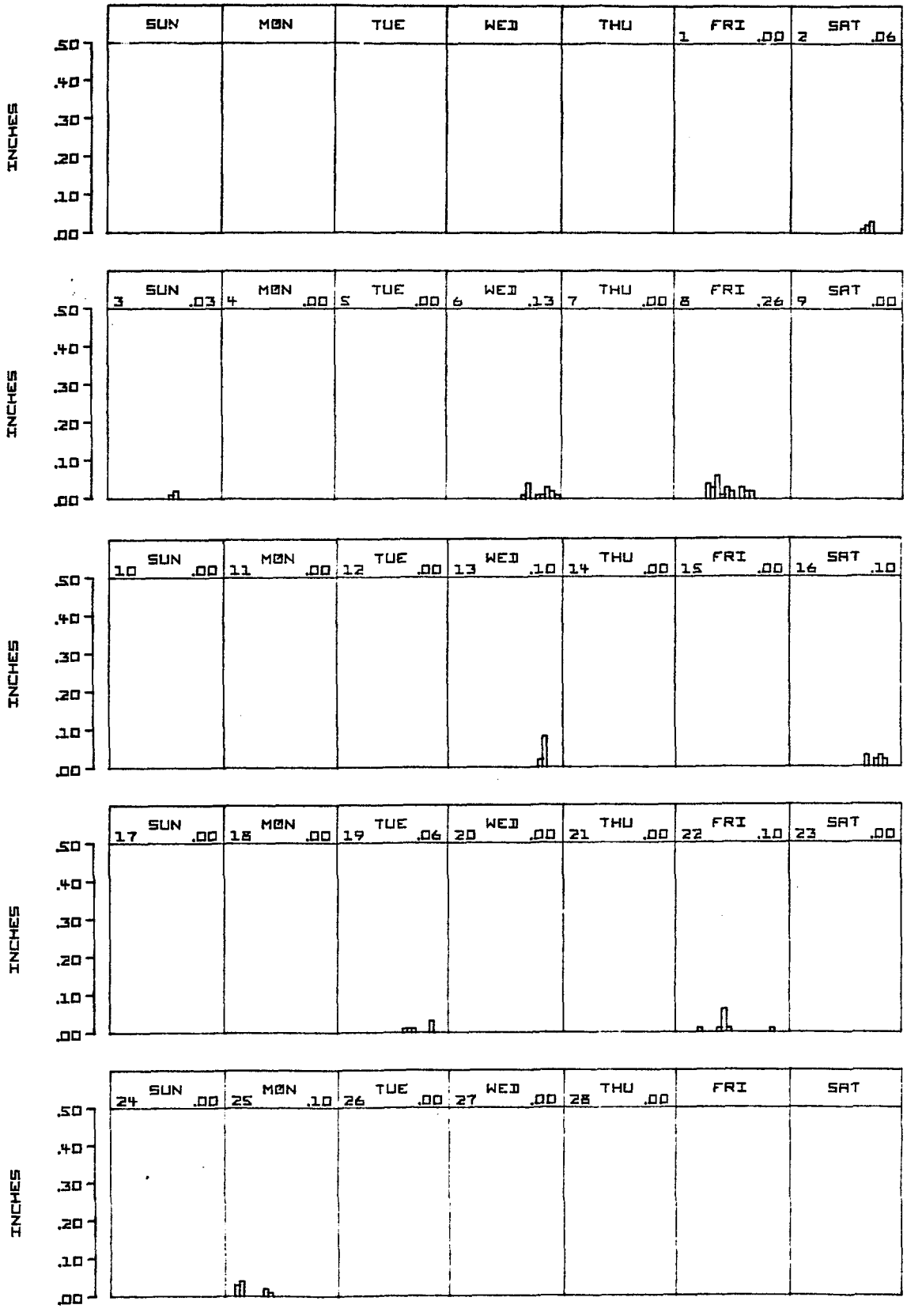
1.3 Daily Precipitation



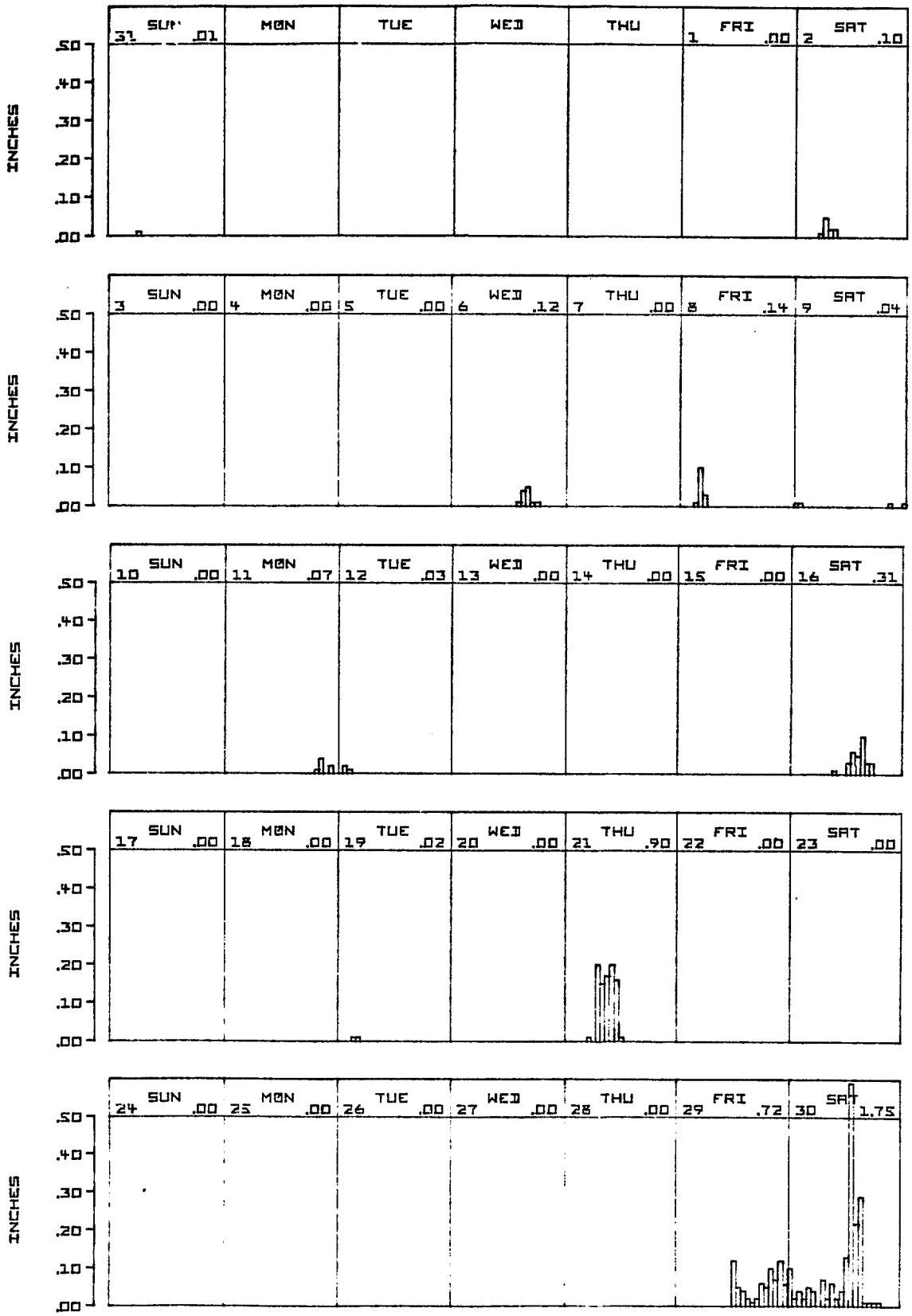
BALTIMORE
DAILY PRECIPITATION FOR JANUARY 1974



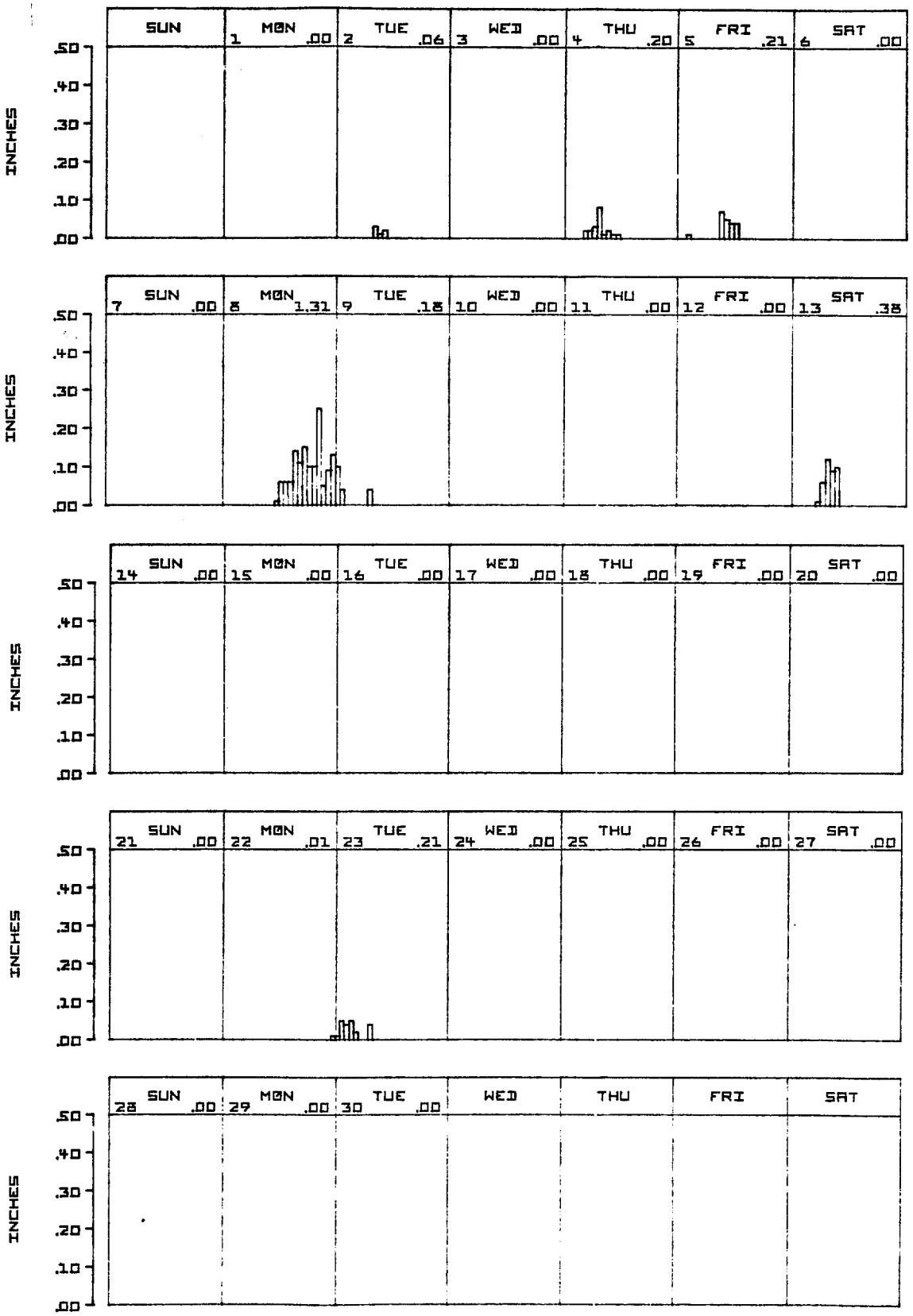
BALTIMORE
DAILY PRECIPITATION FOR FEBRUARY 1974



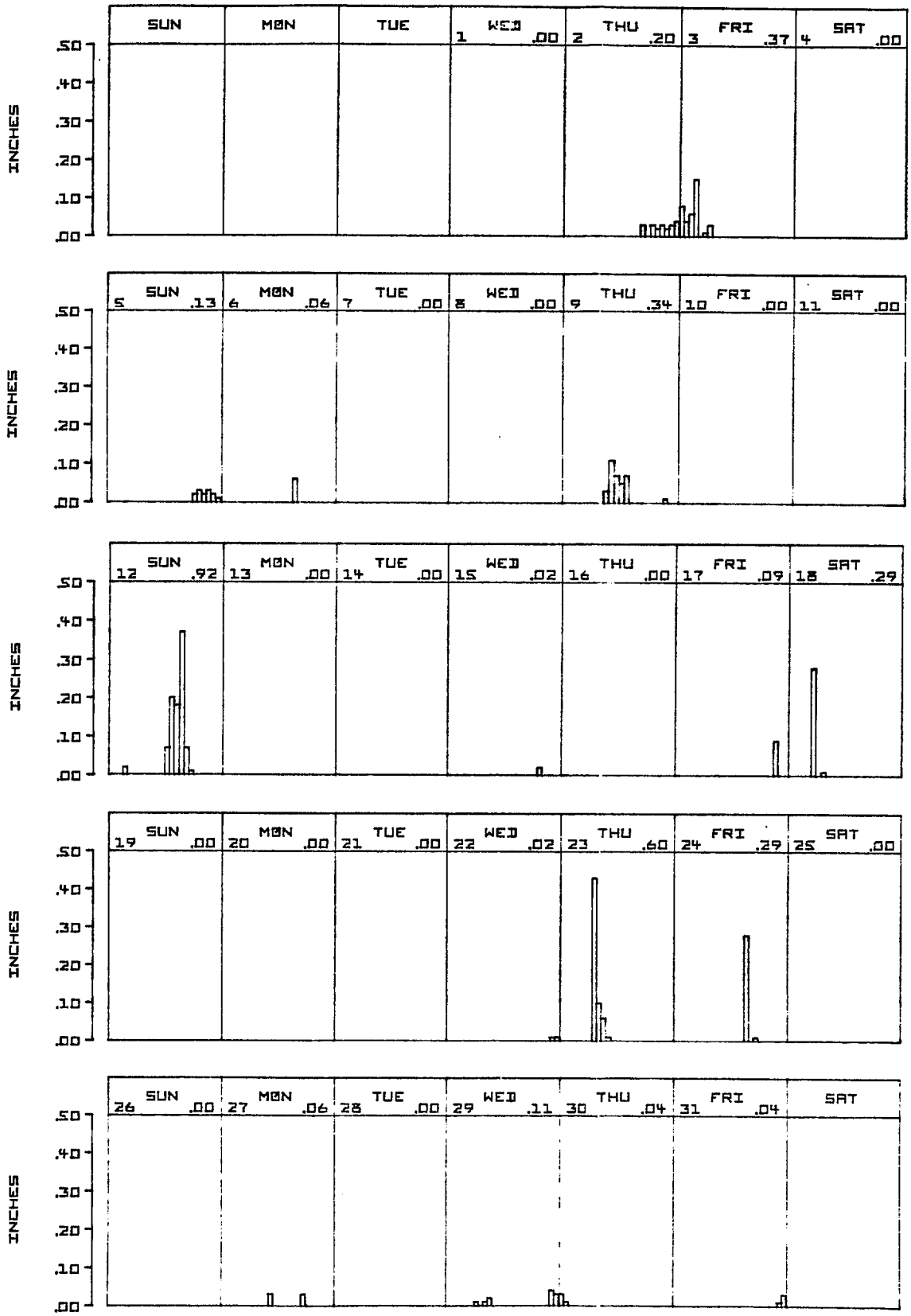
BALTIMORE
DAILY PRECIPITATION FOR MARCH 1974



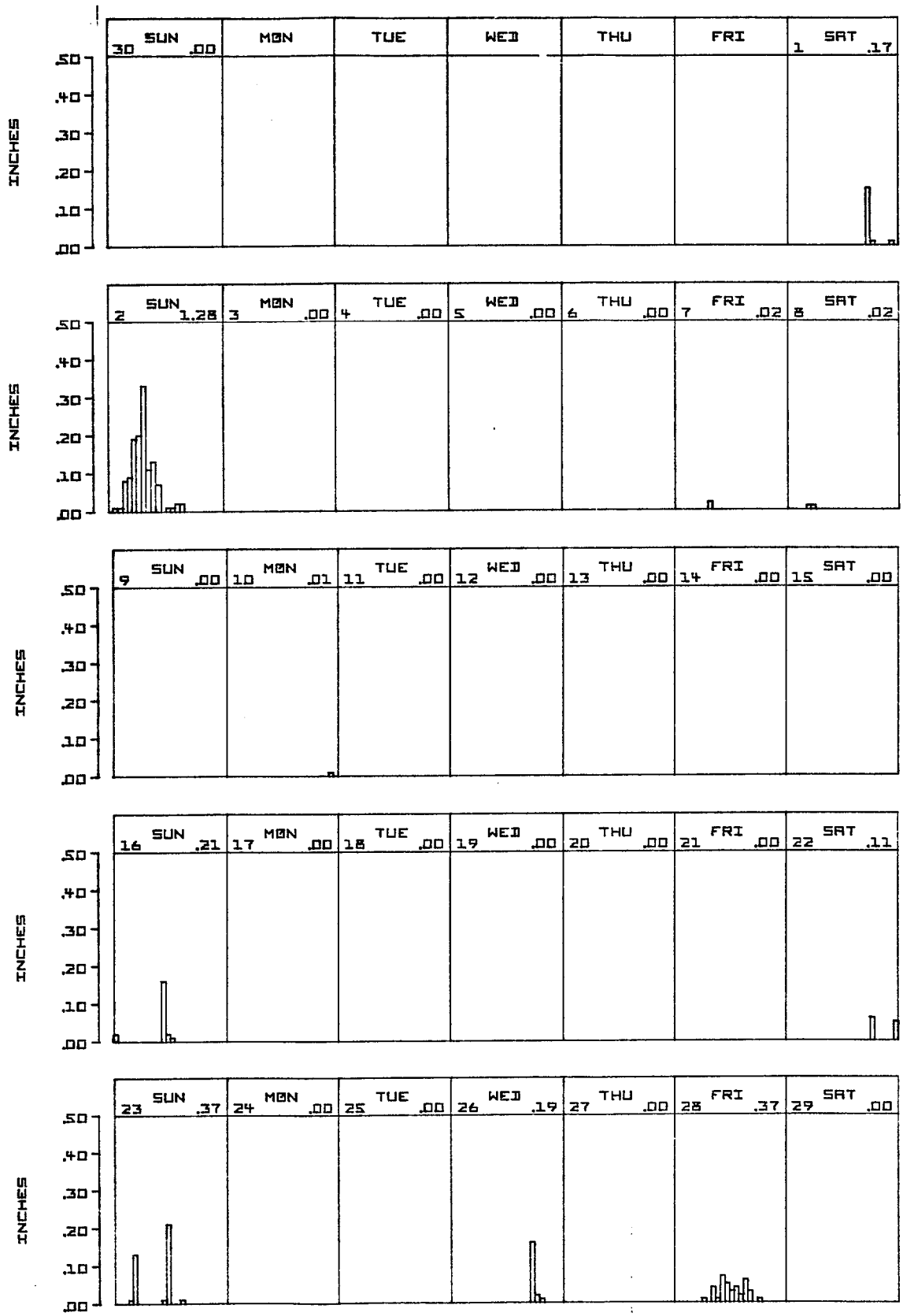
BALTIMORE
DAILY PRECIPITATION FOR APRIL 1974



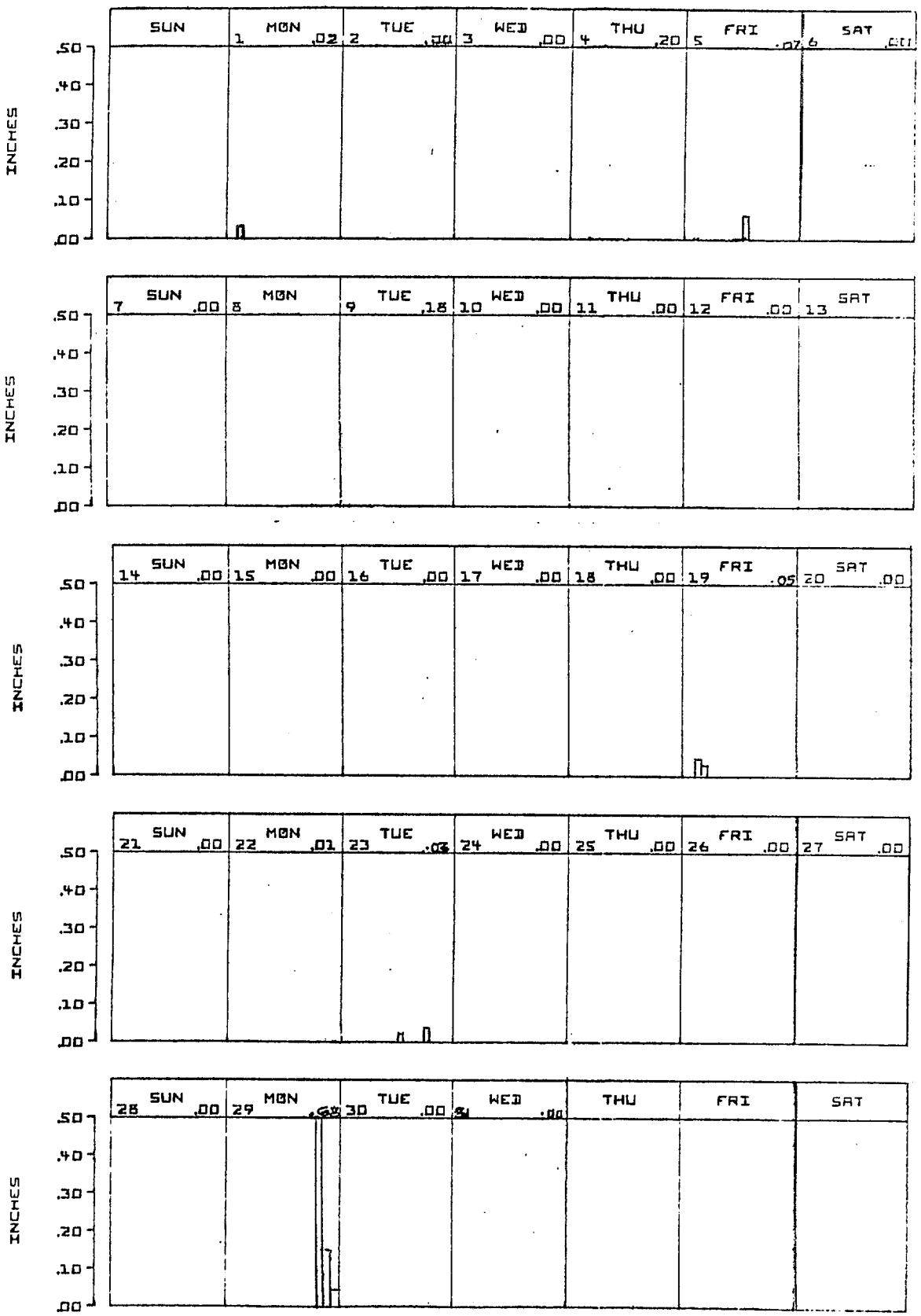
BALTIMORE
DAILY PRECIPITATION FOR MAY 1974



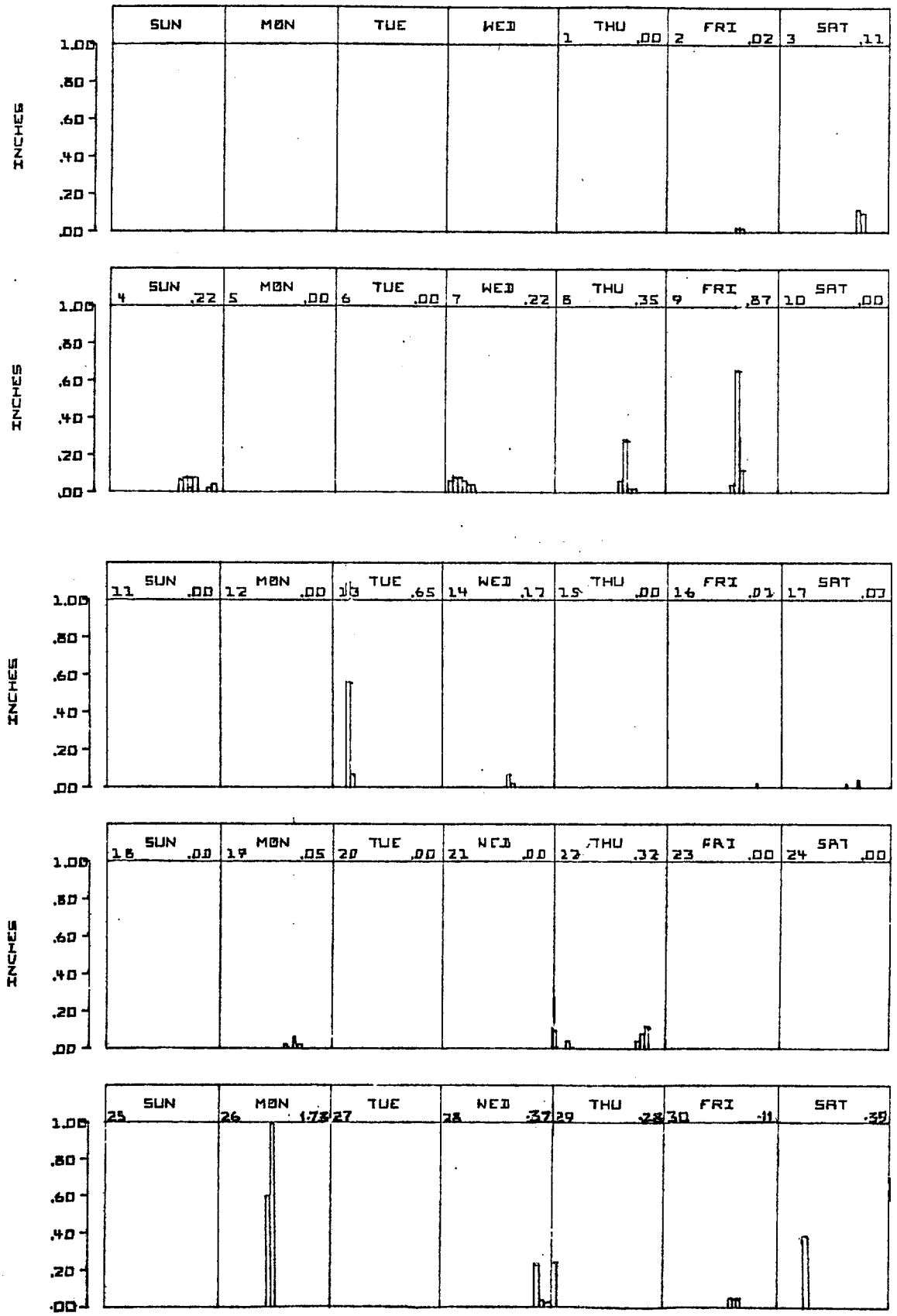
BALTIMORE
DAILY PRECIPITATION FOR JUNE 1974



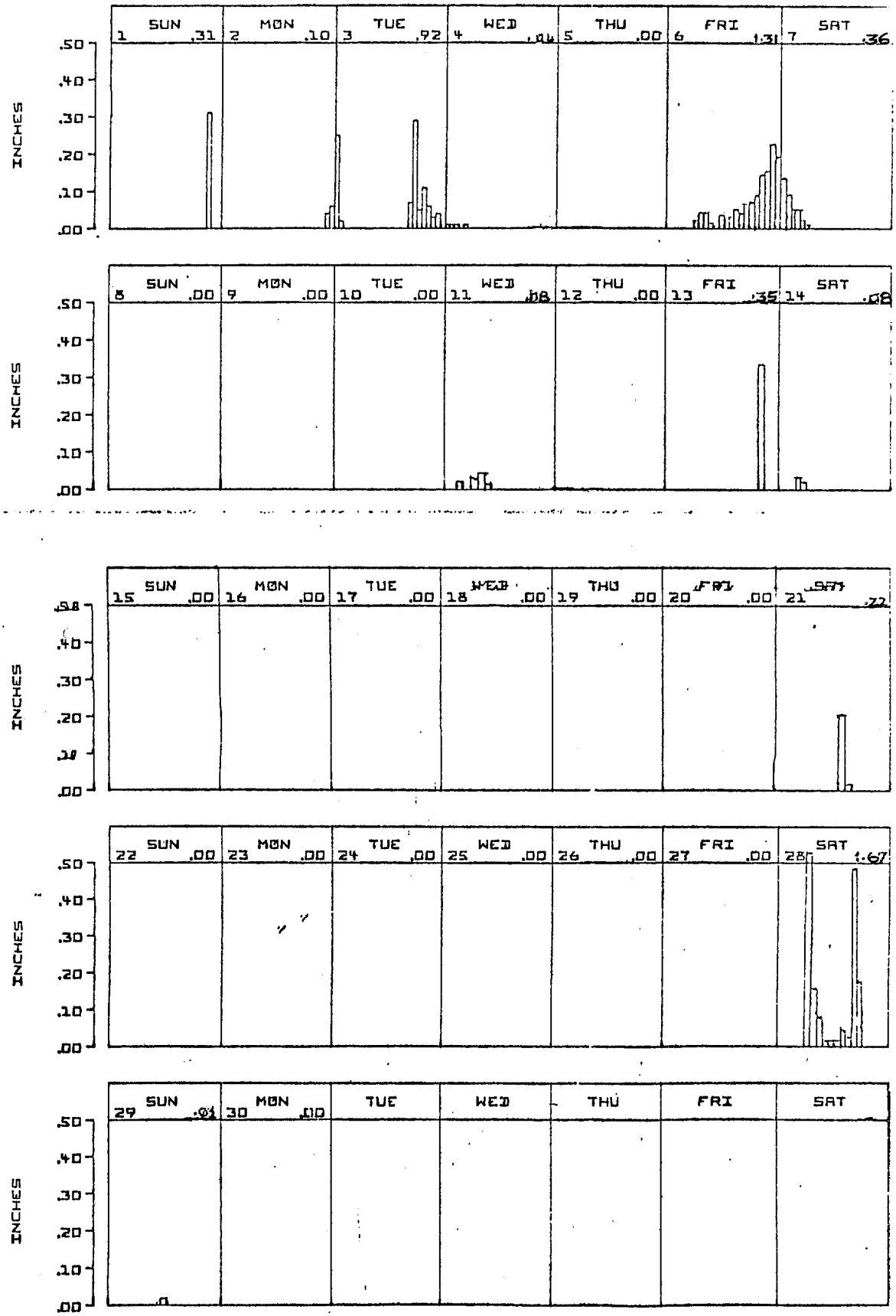
BALTIMORE
DAILY PRECIPITATION FOR JULY 1974



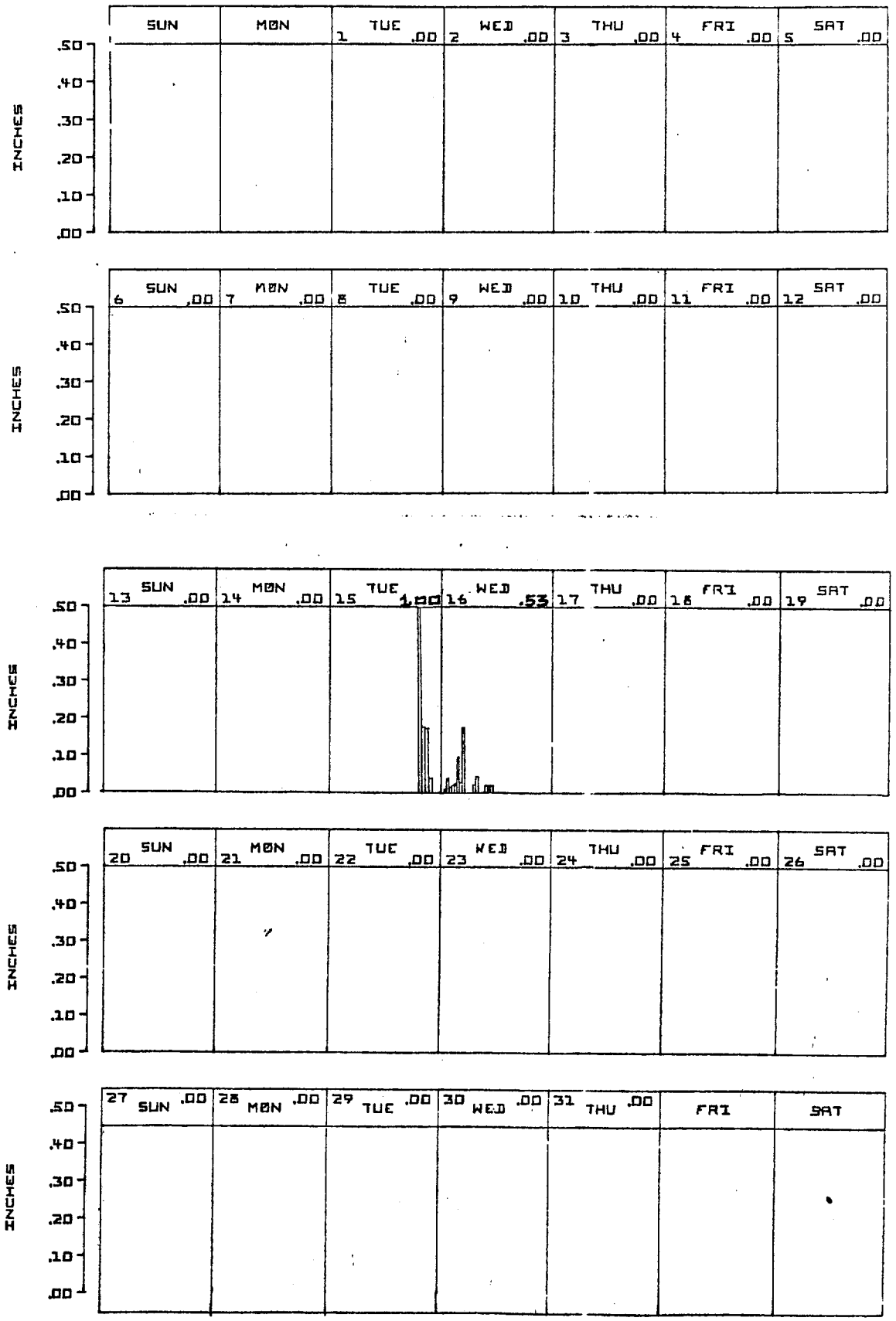
BALTIMORE
PRECIPITATION FOR AUGUST 1974



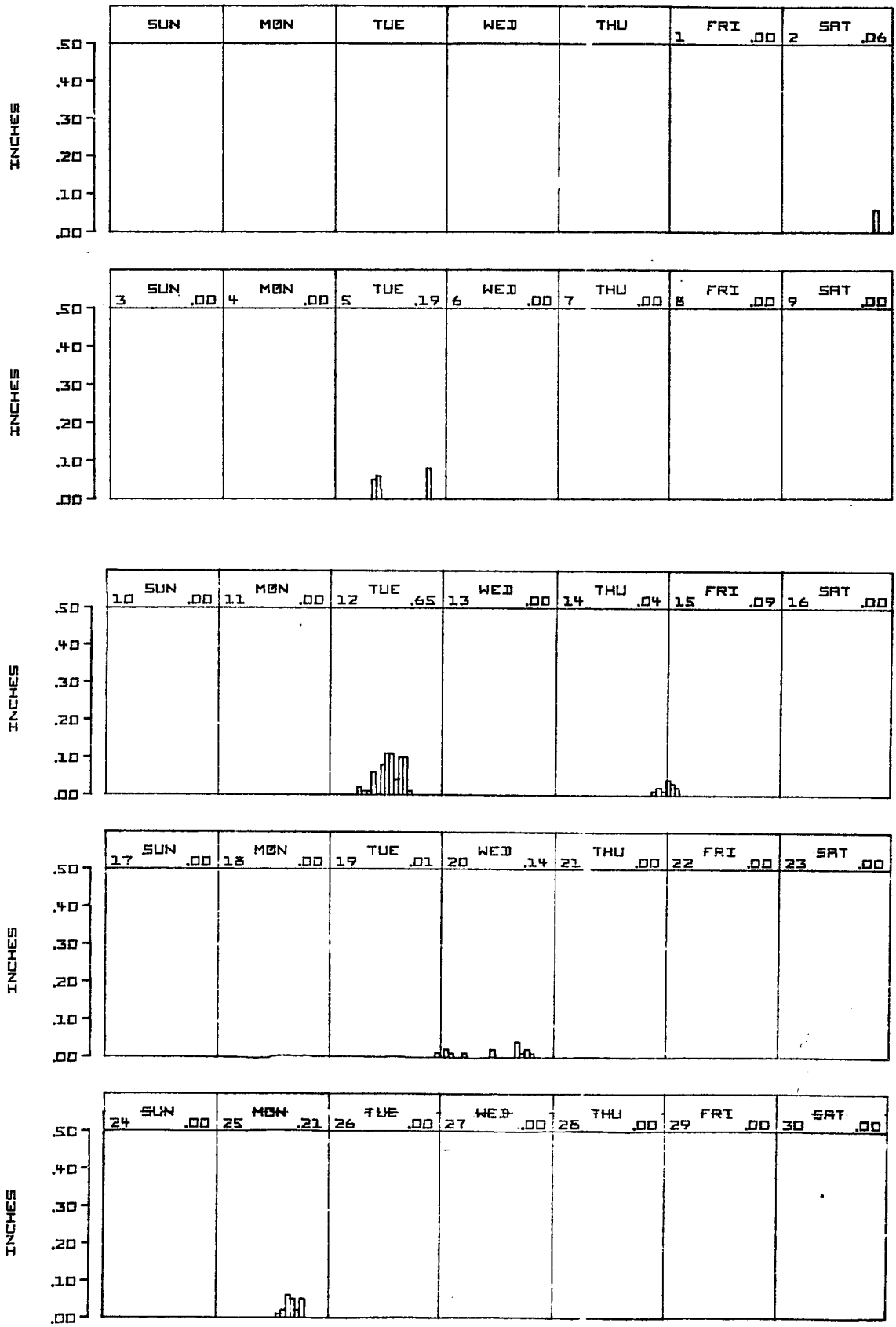
BALTIMORE
PRECIPITATION FOR SEPTEMBER 1974



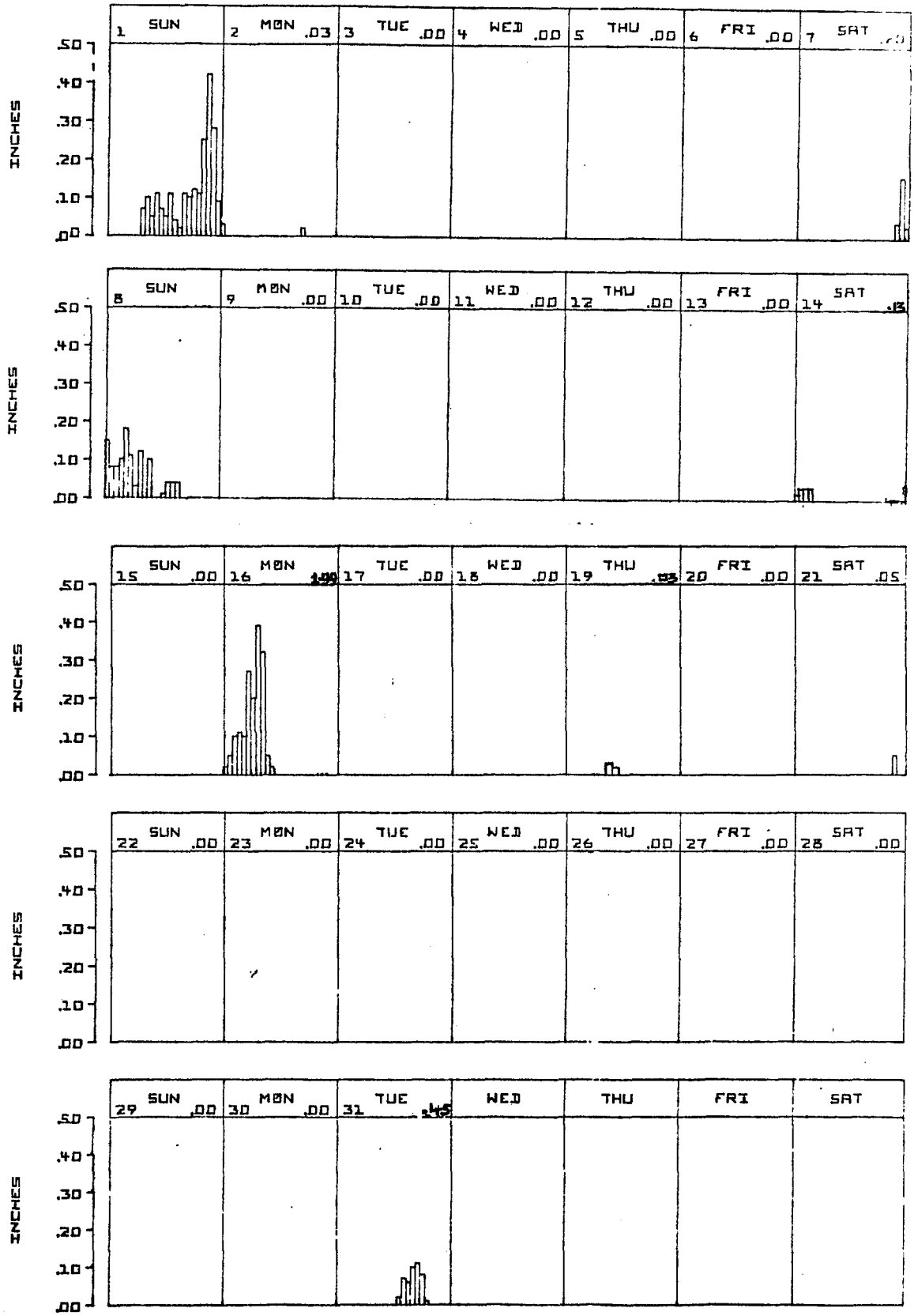
BALTIMORE
PRECIPITATION FOR OCTOBER 1974



BALTIMORE
PRECIPITATION FOR NOVEMBER 1974

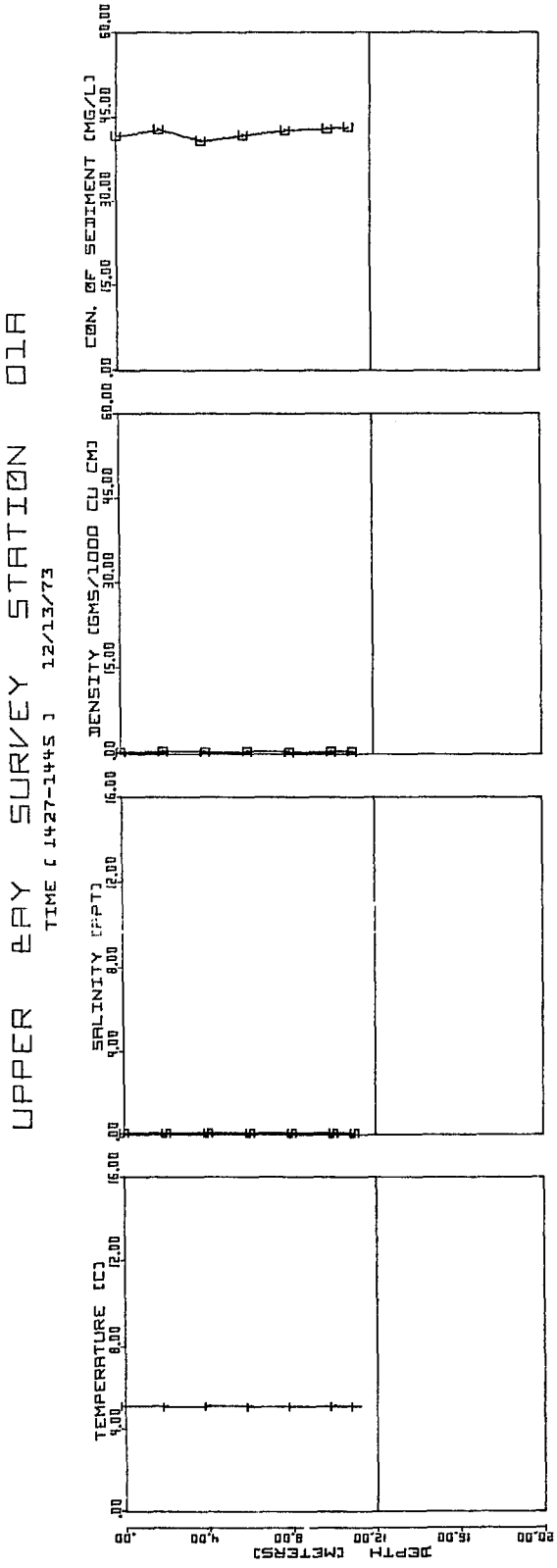


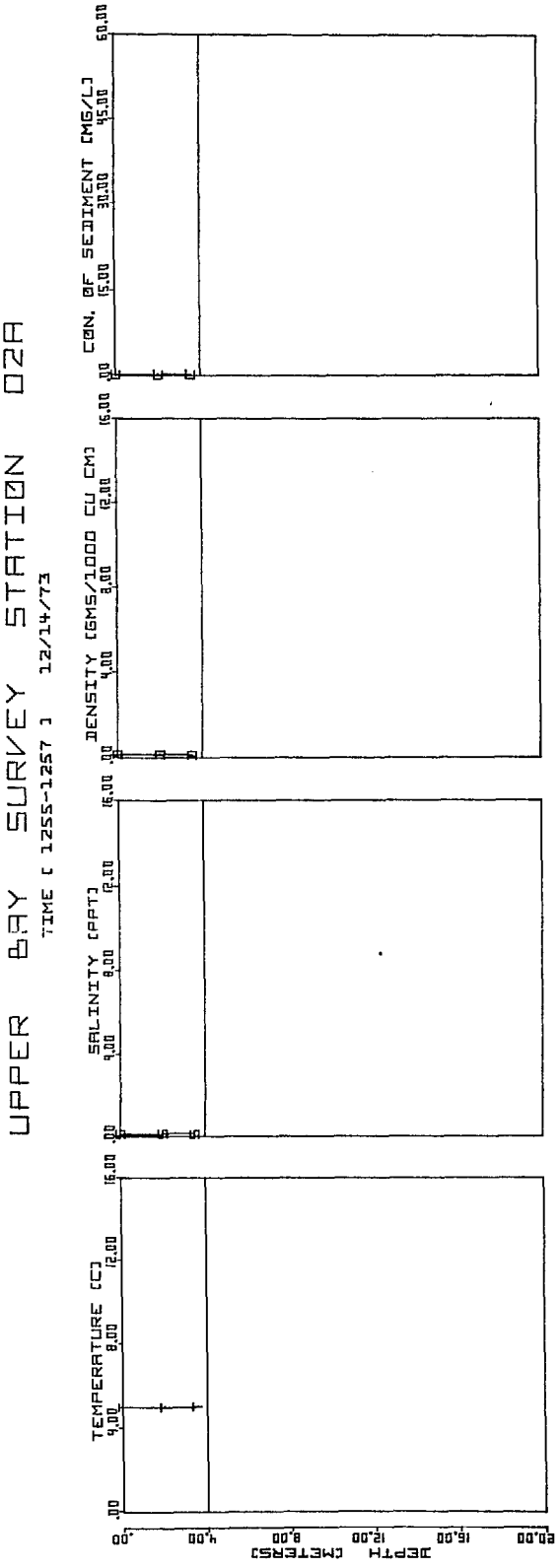
BALTIMORE
PRECIPITATION FOR DECEMBER 1974



2. WATER TEMPERATURE, SALINITY, SIGMA -t, AND SUSPENDED SEDIMENT CONCENTRATION

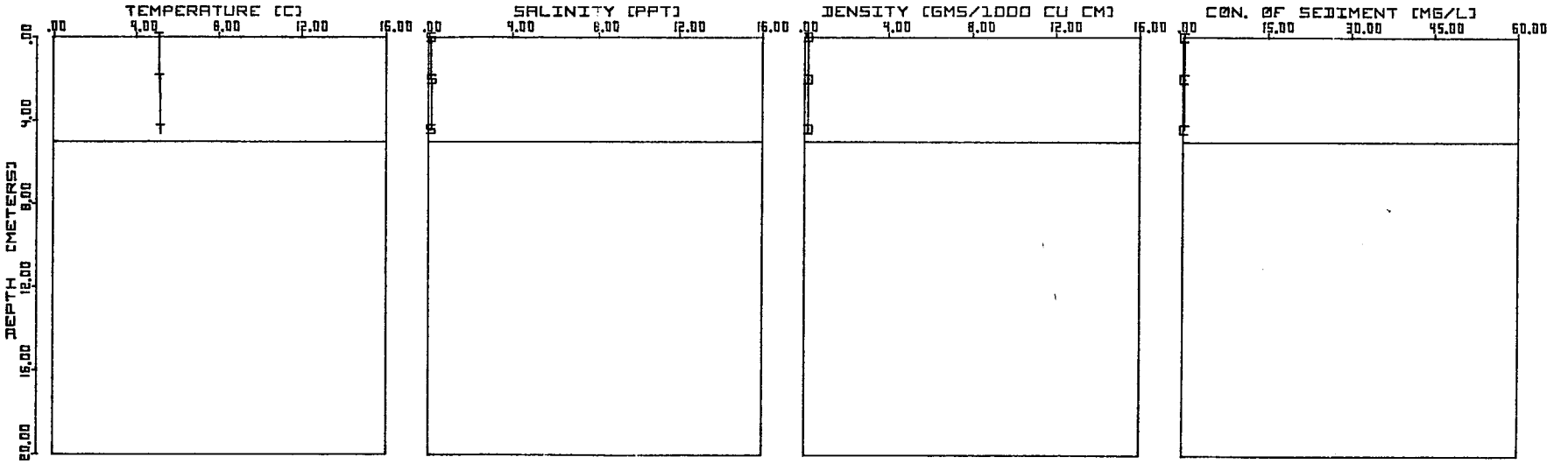
(NOTE: Density recorded in this section is in Sigma-t units, not gm/cm^3 as shown)





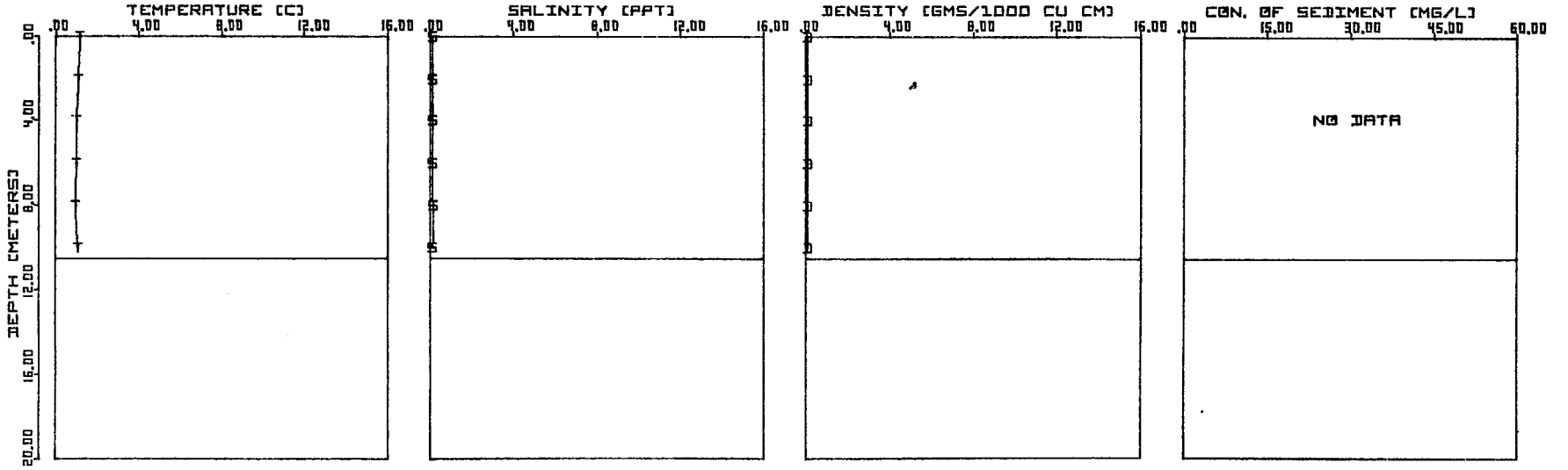
UPPER BAY SURVEY STATION 02B

TIME [1300-1304] 12/14/73



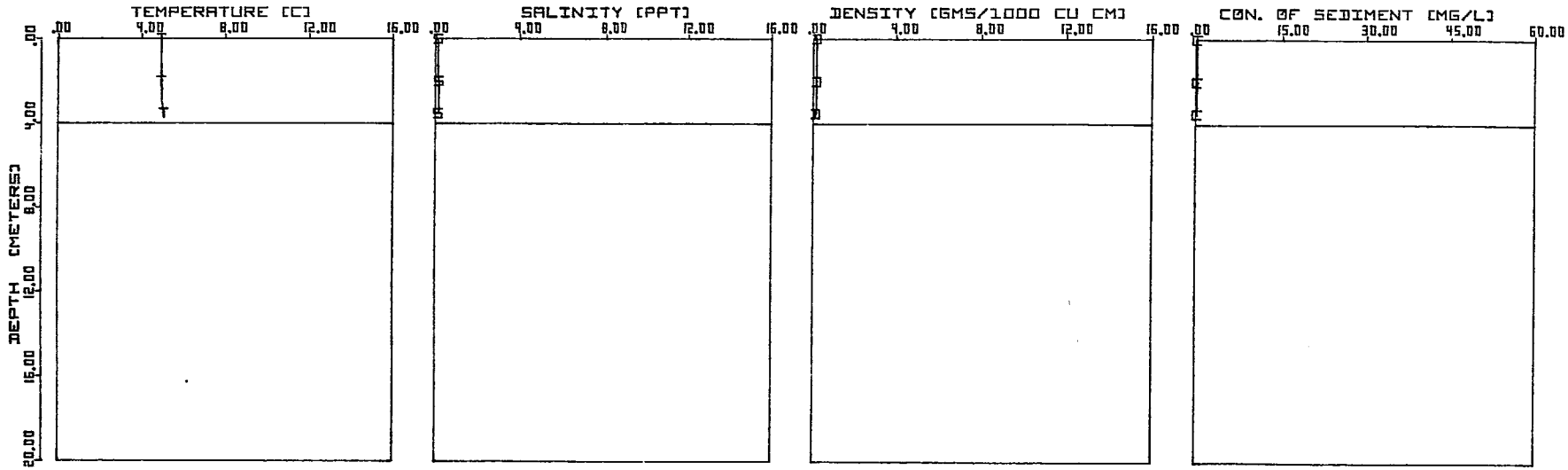
UPPER BAY SURVEY STATION 02C

TIME [1210-1220] 02/14/74



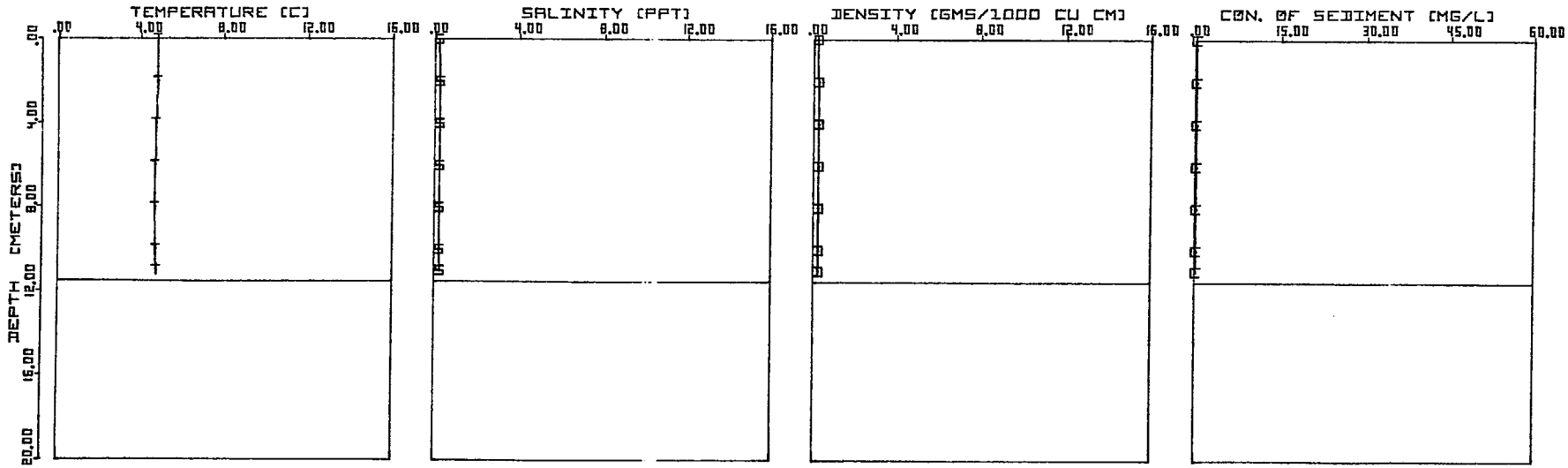
UPPER BAY SURVEY STATION 03A

TIME [1235-1239] 12/14/73



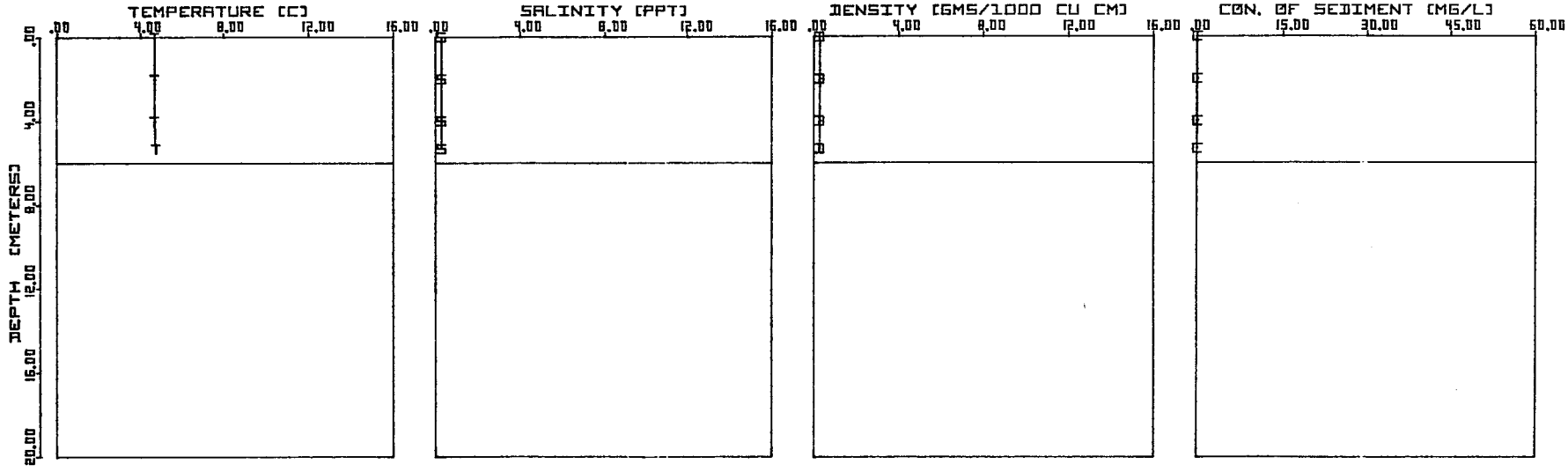
UPPER BAY SURVEY STATION 03B

TIME [1220-1232] 12/14/73



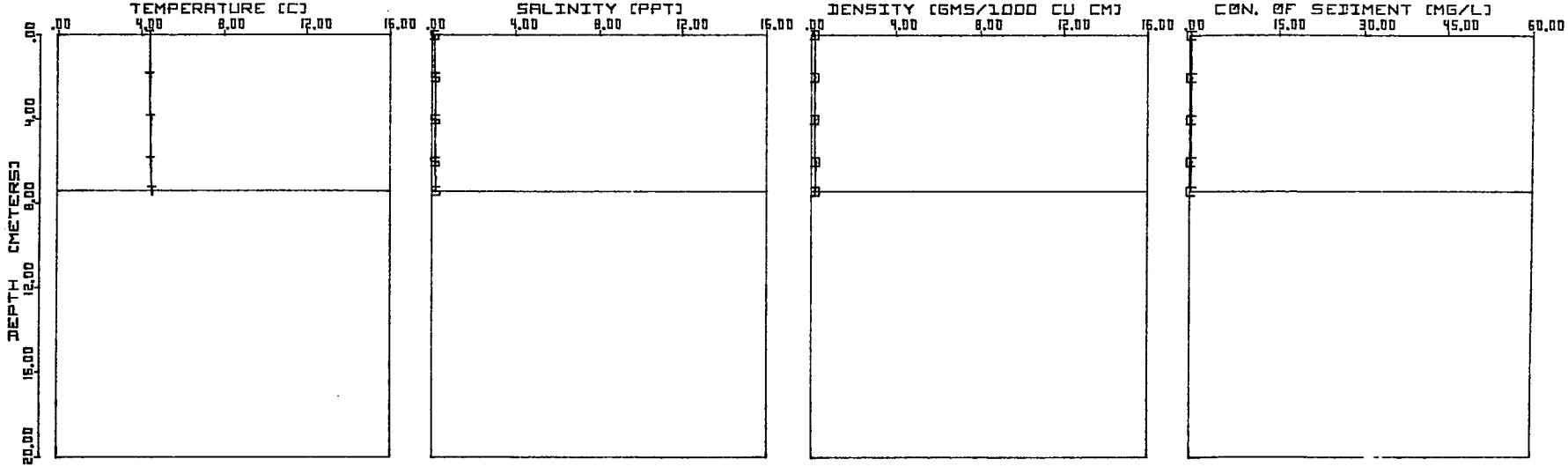
UPPER BAY SURVEY STATION 03C

TIME [1215-1218] 12/14/73



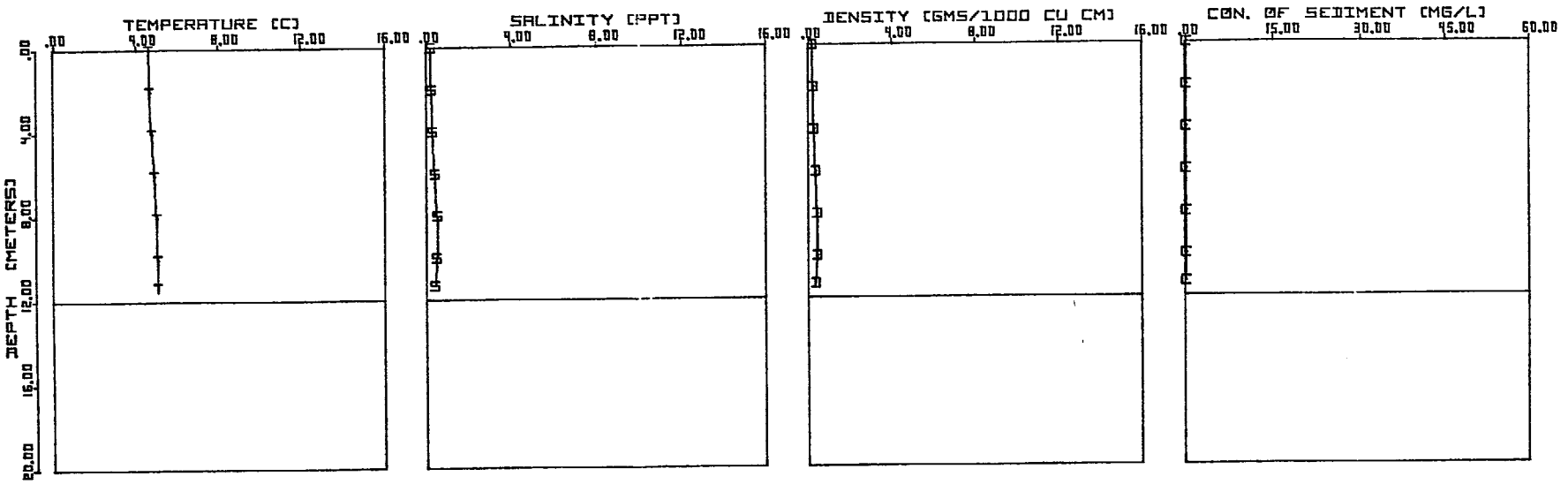
UPPER BAY SURVEY STATION 04A

TIME [1135-1141] 12/14/73



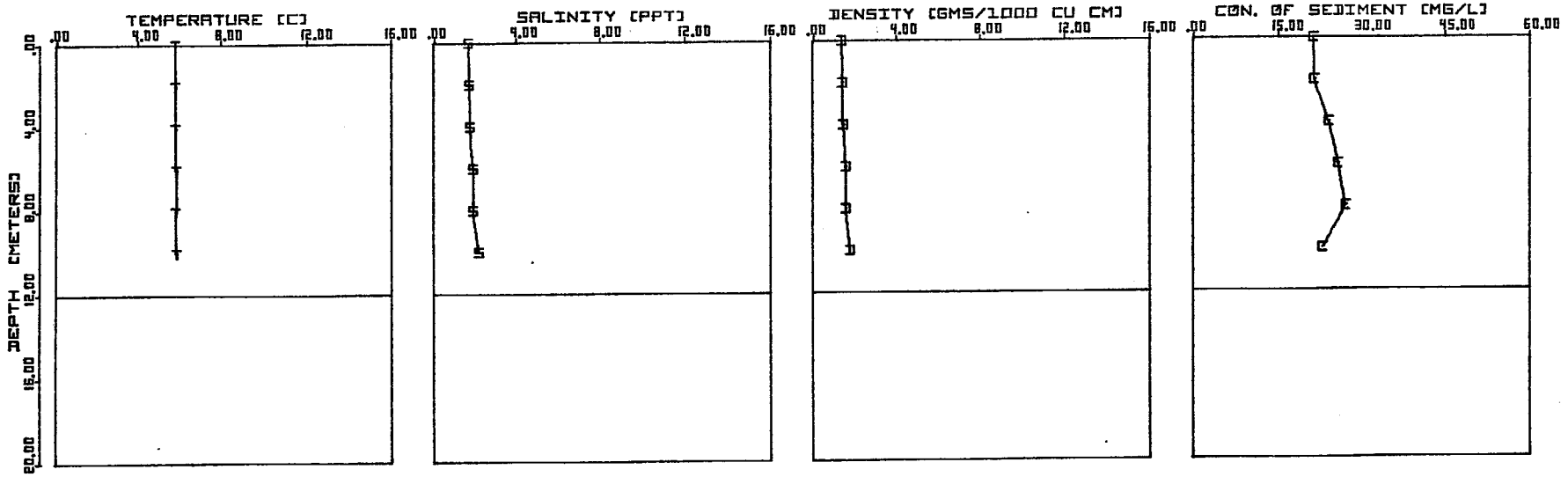
UPPER BAY SURVEY STATION 048

TIME [1140-1152] 12/14/731



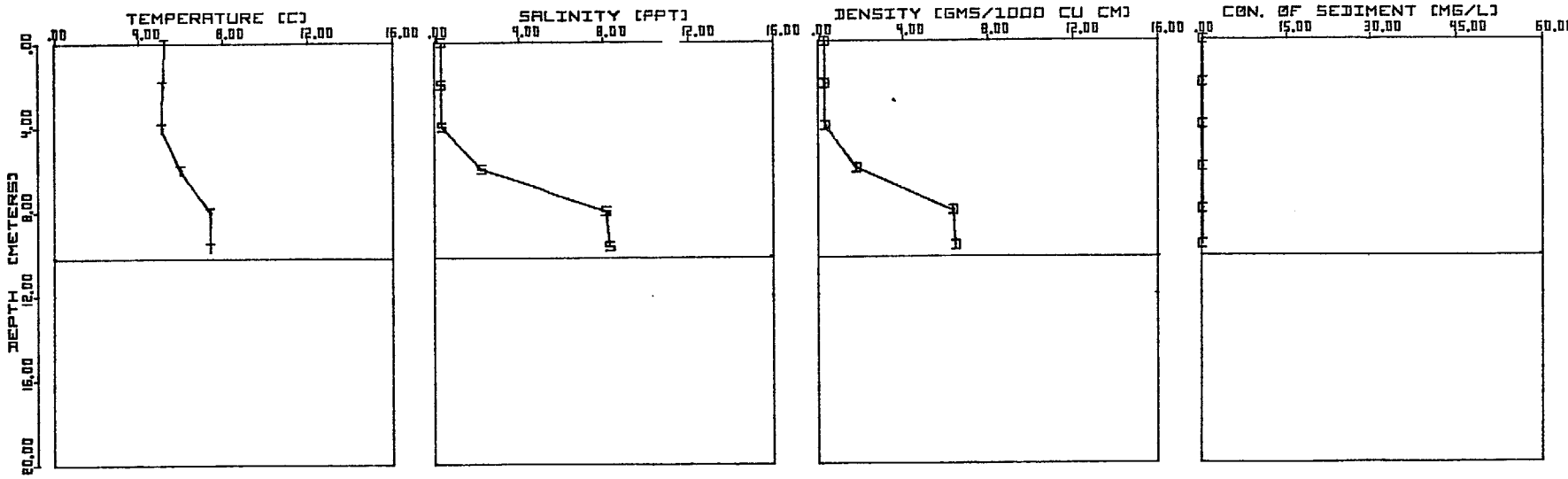
UPPER BAY SURVEY STATION 05A

TIME [1030-1040



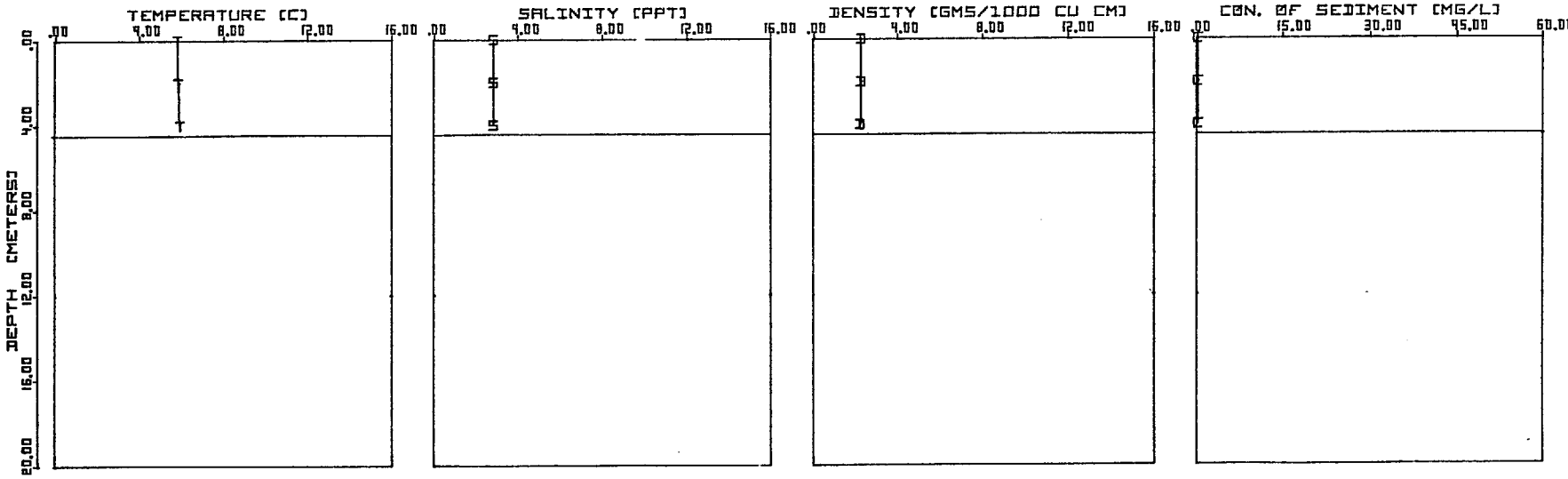
UPPER BAY SURVEY STATION 058

TIME [1030-1039]



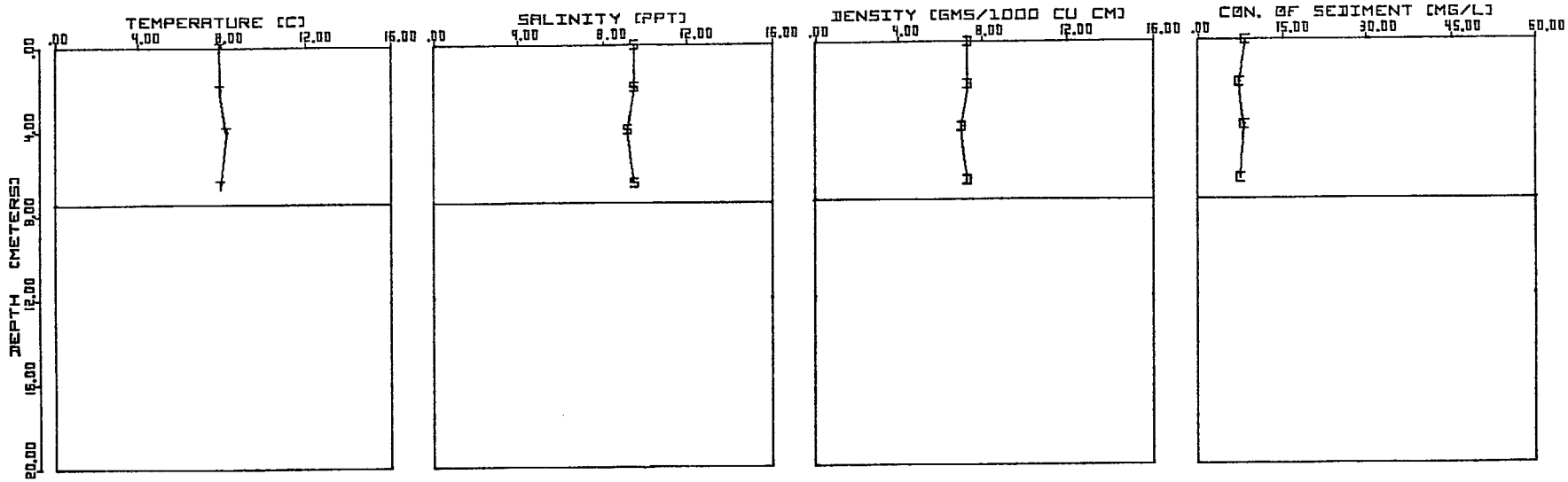
UPPER BAY SURVEY STATION 068

TIME [0930-0934]



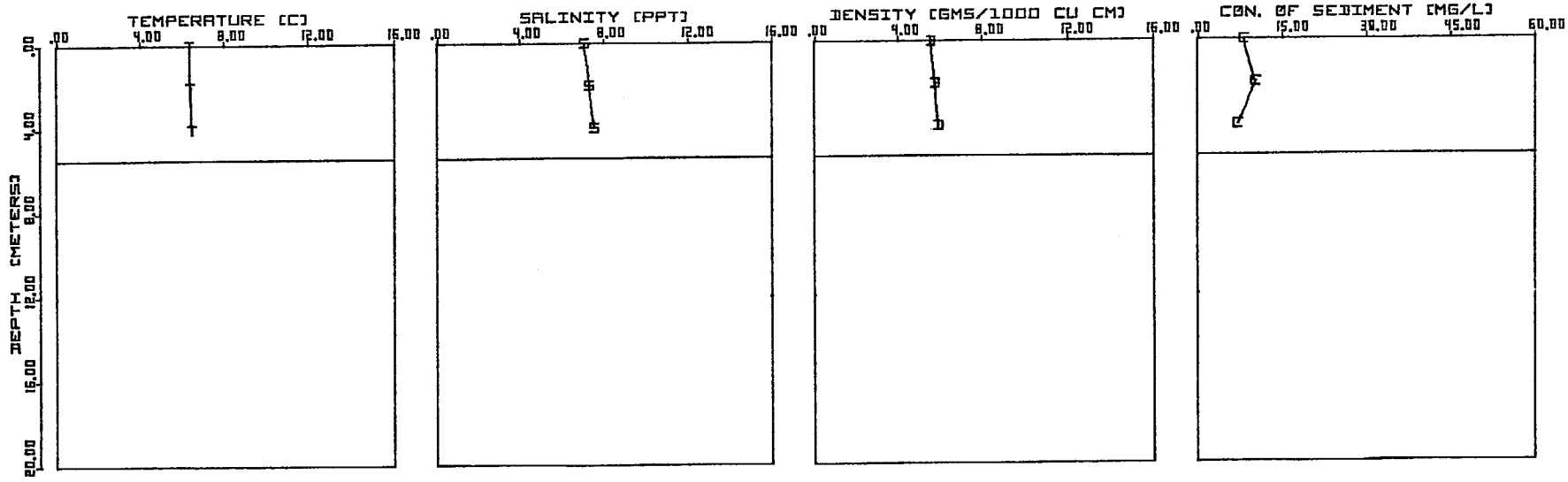
UPPER BAY SURVEY STATION 07A

TIME [1435-1510]



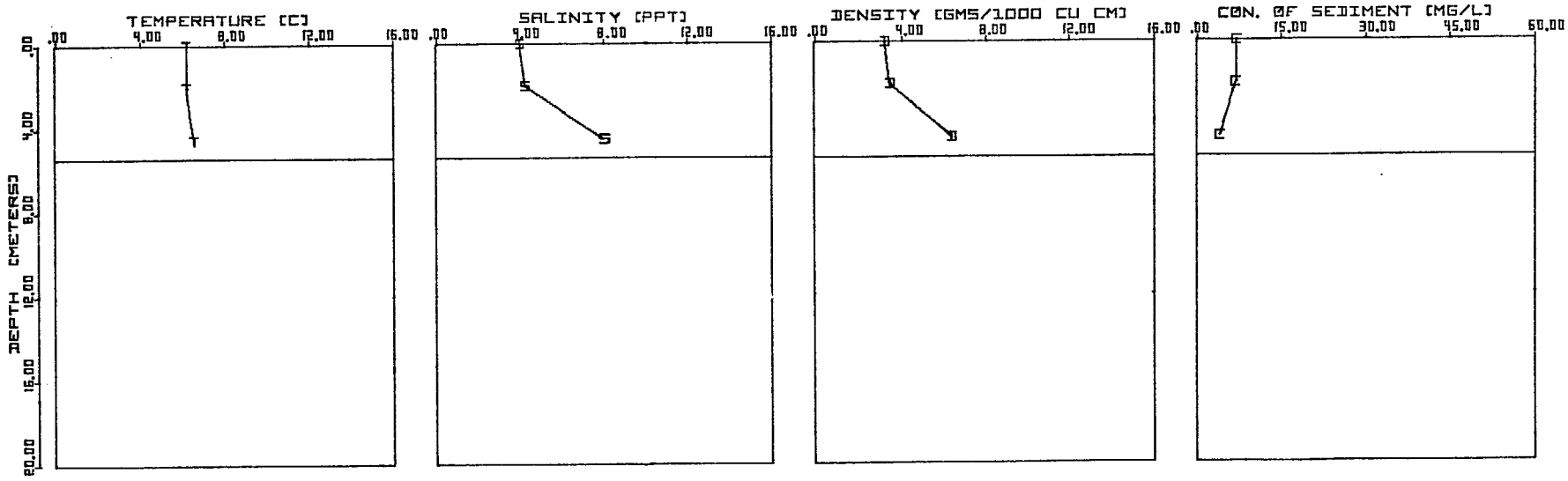
UPPER BAY SURVEY STATION 08A

TIME [1340-1415] 12/14/73



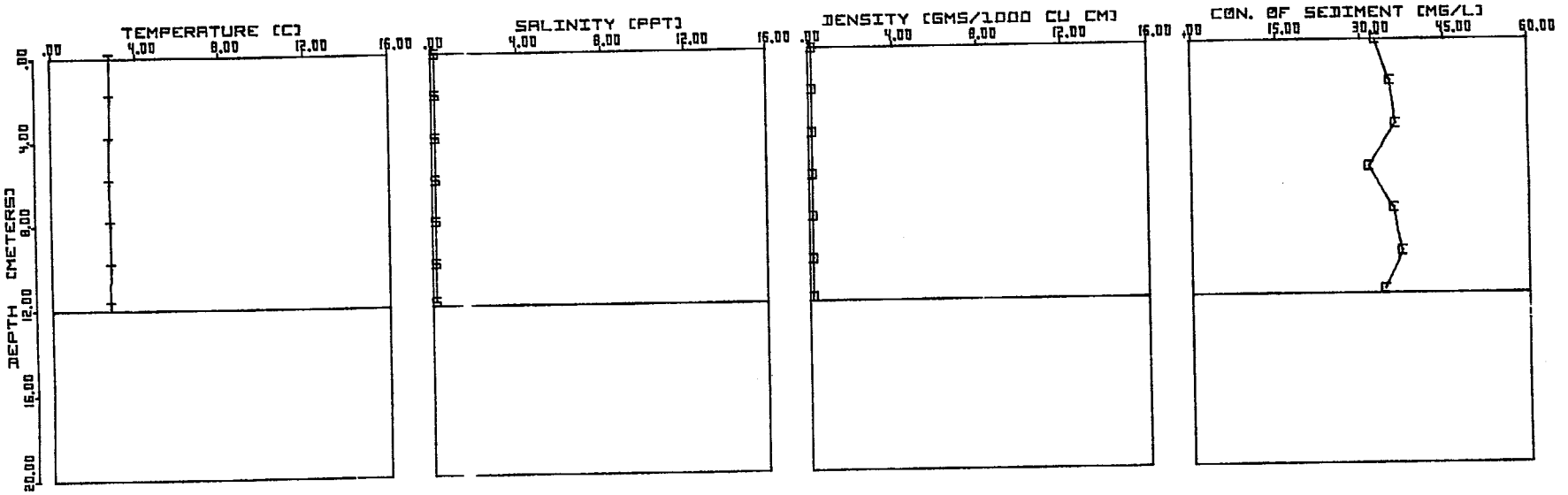
UPPER BAY SURVEY STATION 088

TIME [1231-1250] 12/14/73



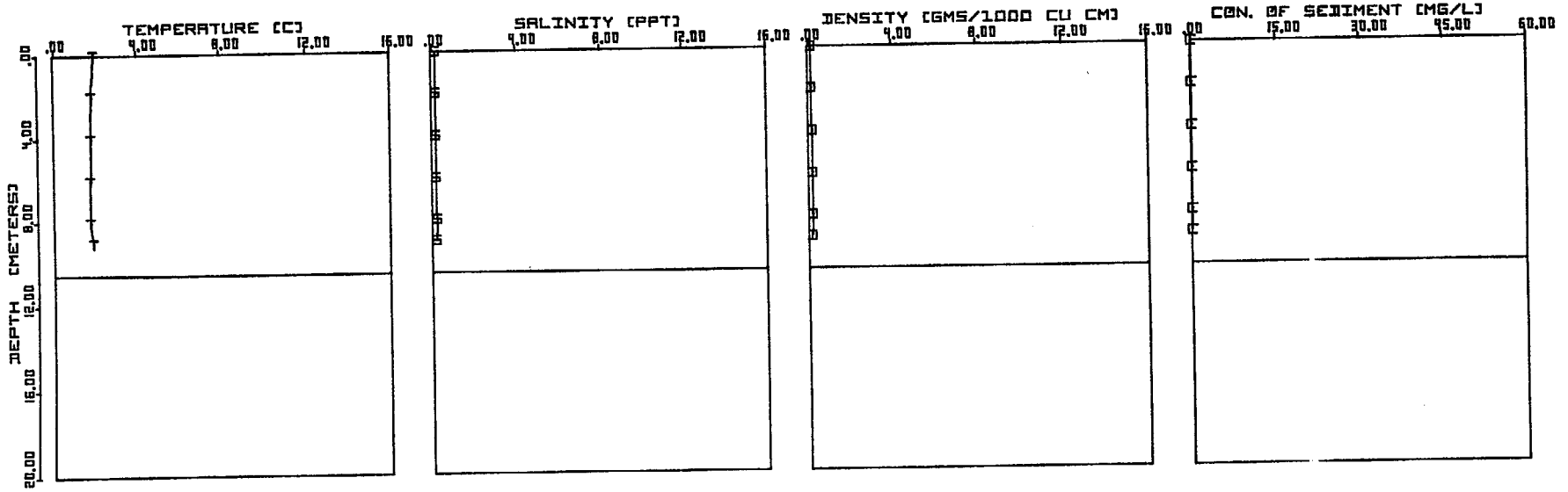
UPPER BAY SURVEY STATION 01A

TIME [1255-1307] 01/24/74



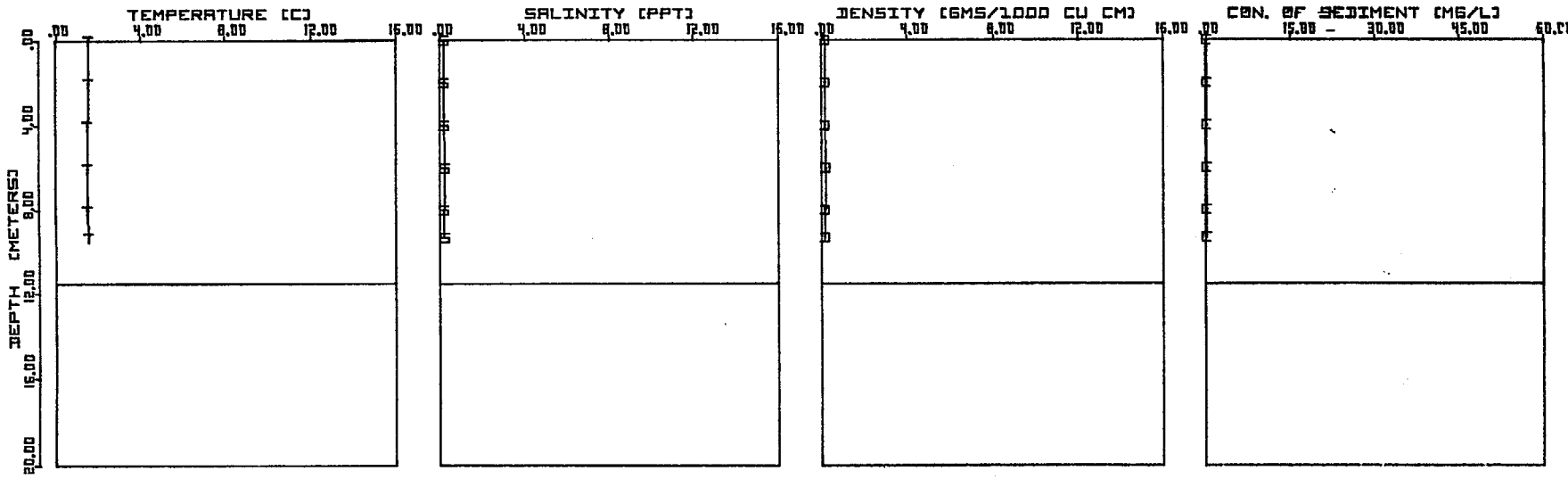
UPPER BAY SURVEY STATION 02C

TIME [1525-1535] 01/23/74



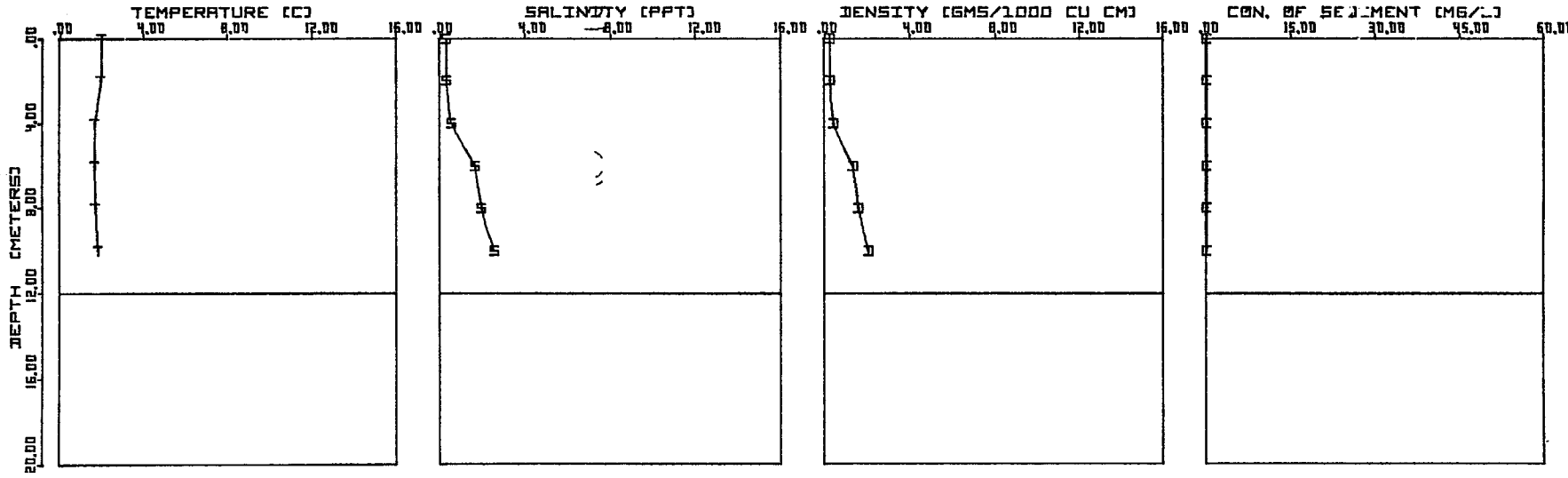
UPPER BAY SURVEY STATION .-03B

TIME [1435-1445] 01/23/74



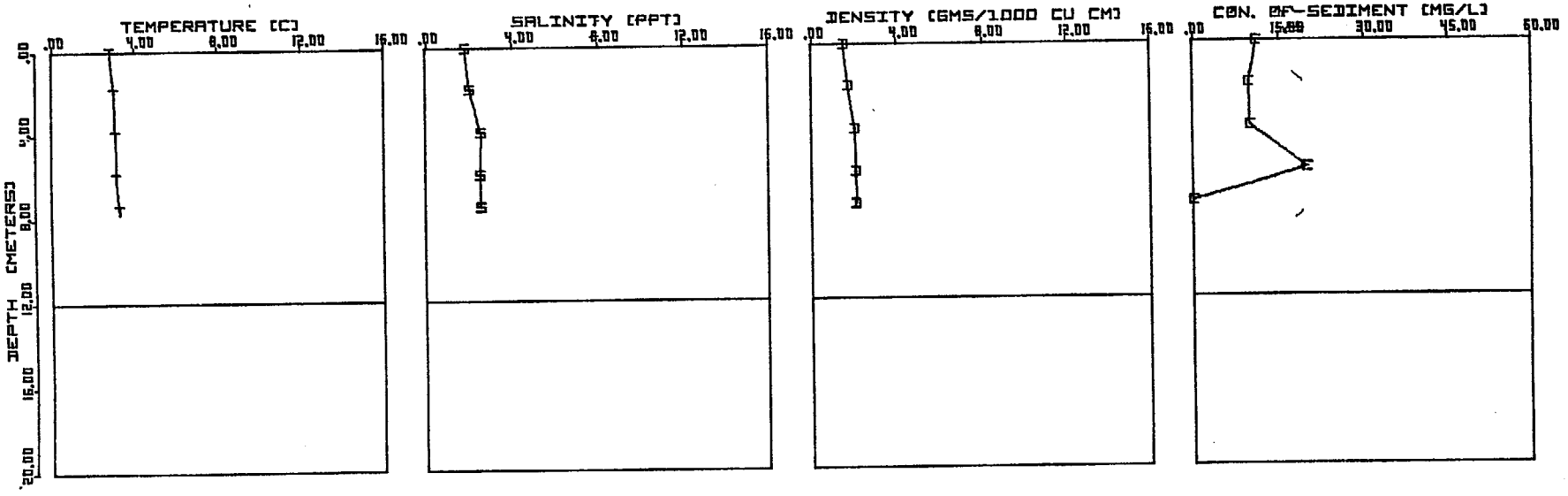
UPPER— BAY SURVEY STATION 04B

TIME [1250-1260] 01/23/74



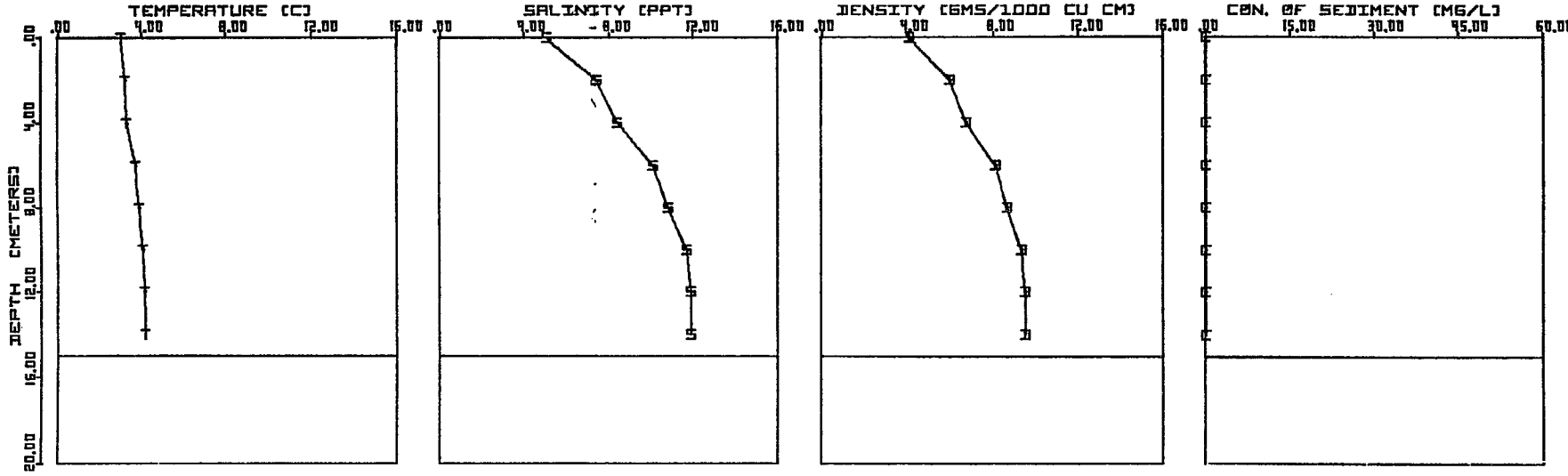
UPPER BAY SURVEY STATION 05A

TIME [0930-0938] 01/24/74



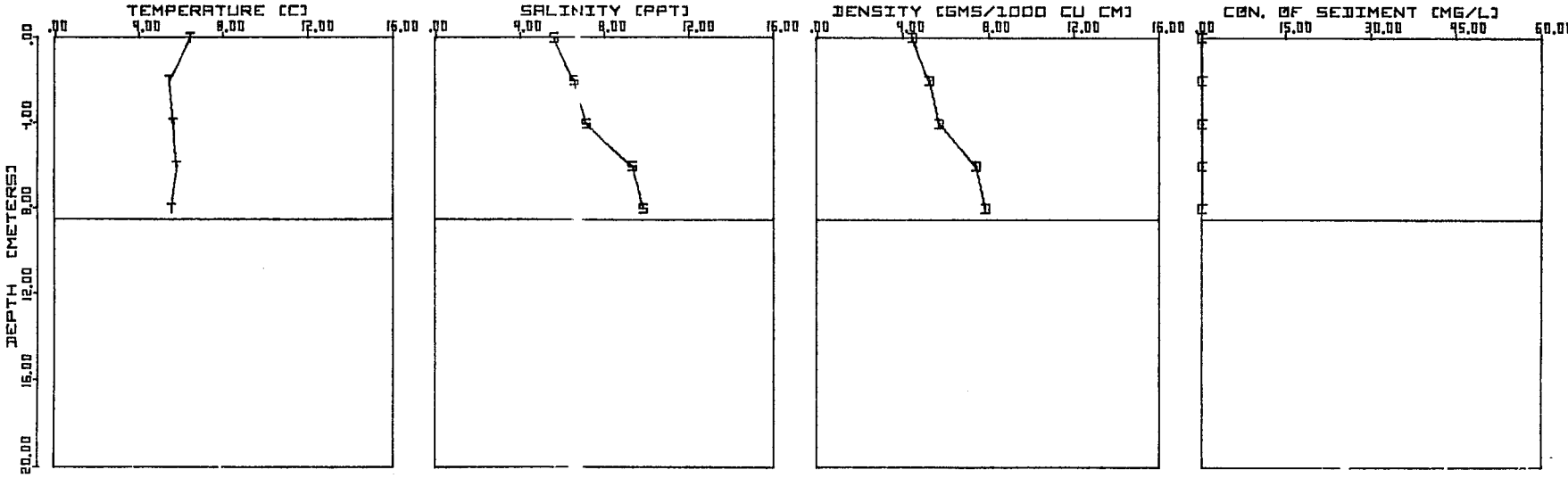
UPPER— BAY SURVEY STATION 06C

TIME [0925-0939] 01/23/74



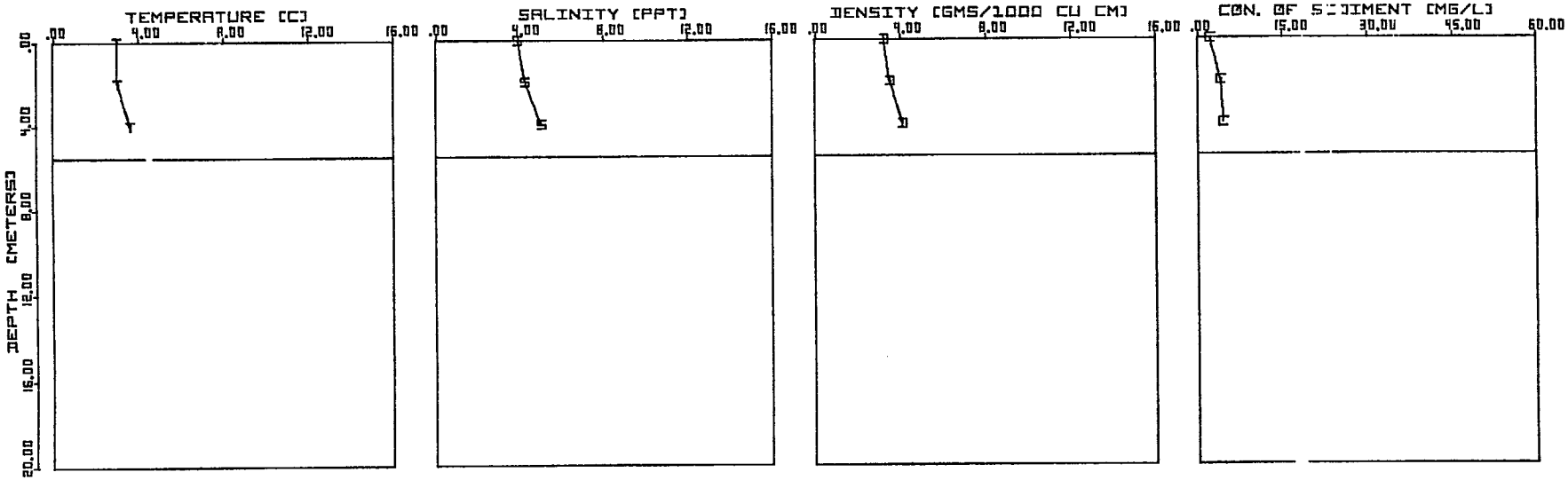
UPPER BAY SURVEY STATION 07A

TIME [1200-1208] 01/23/74



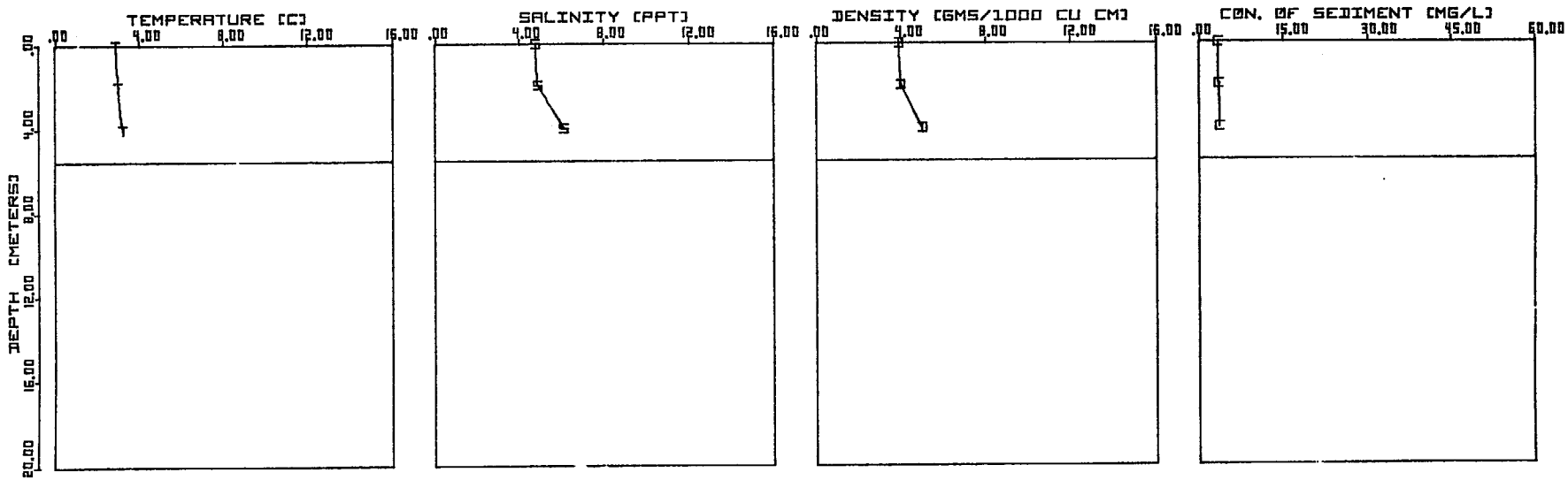
UPPER BAY SURVEY STATION 08A

TIME [1310-1340] 01/24/74



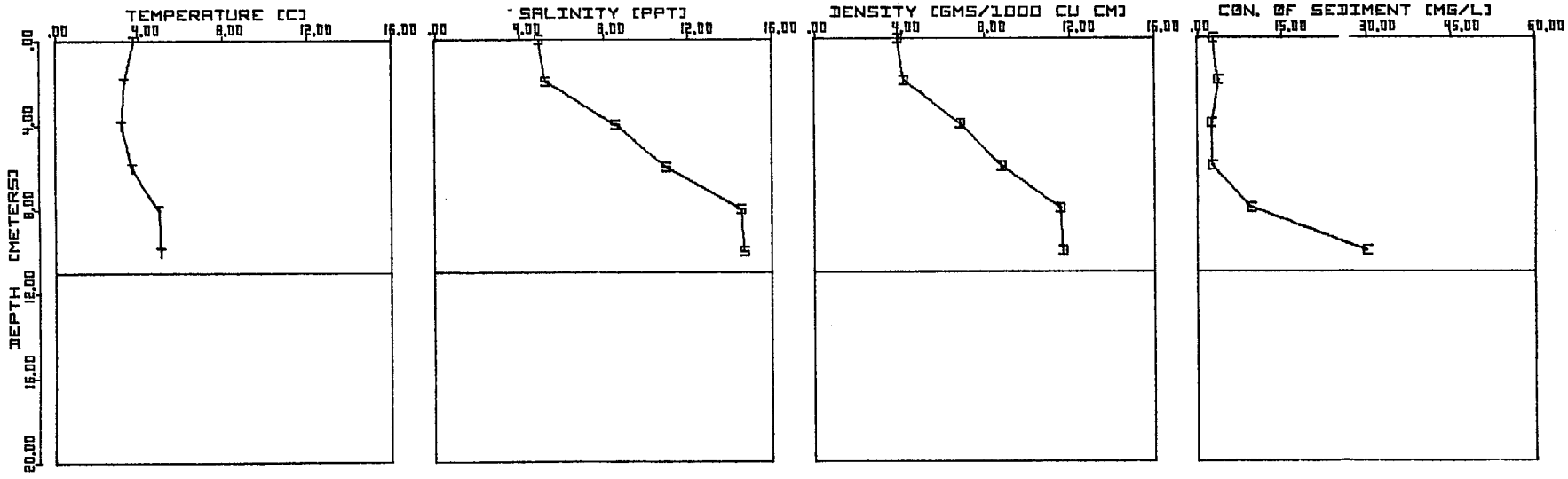
UPPER BAY SURVEY STATION 08B

TIME [1415-1435] 01/24/74



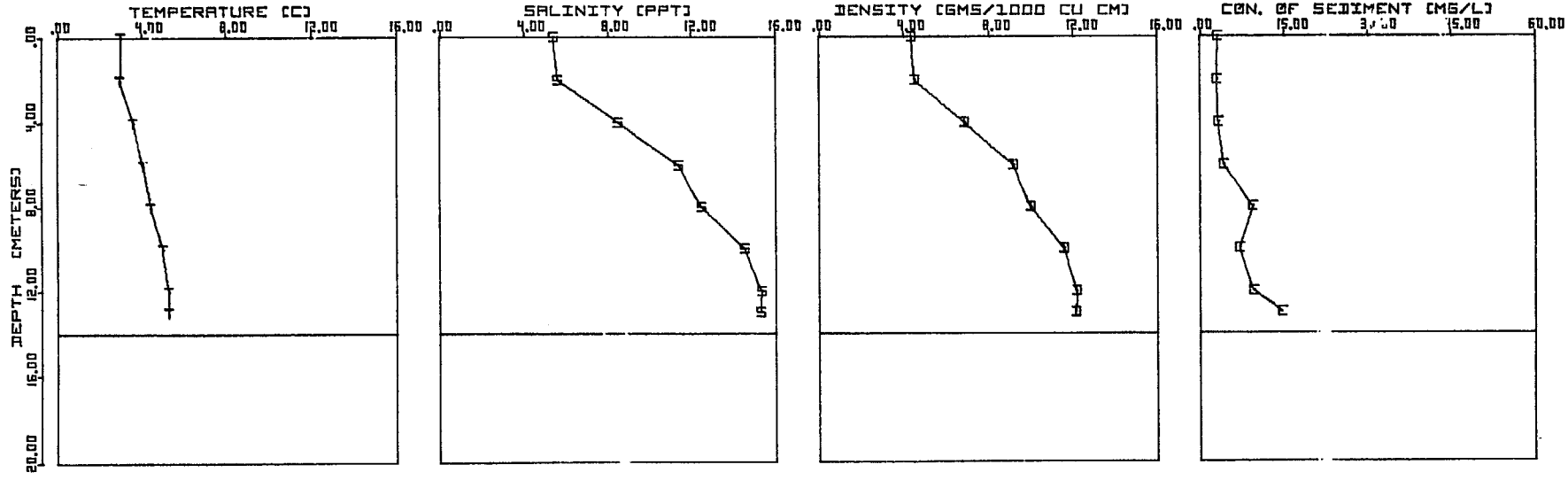
UPPER BAY SURVEY STATION 10B

TIME [1635-1725] 01/23/74



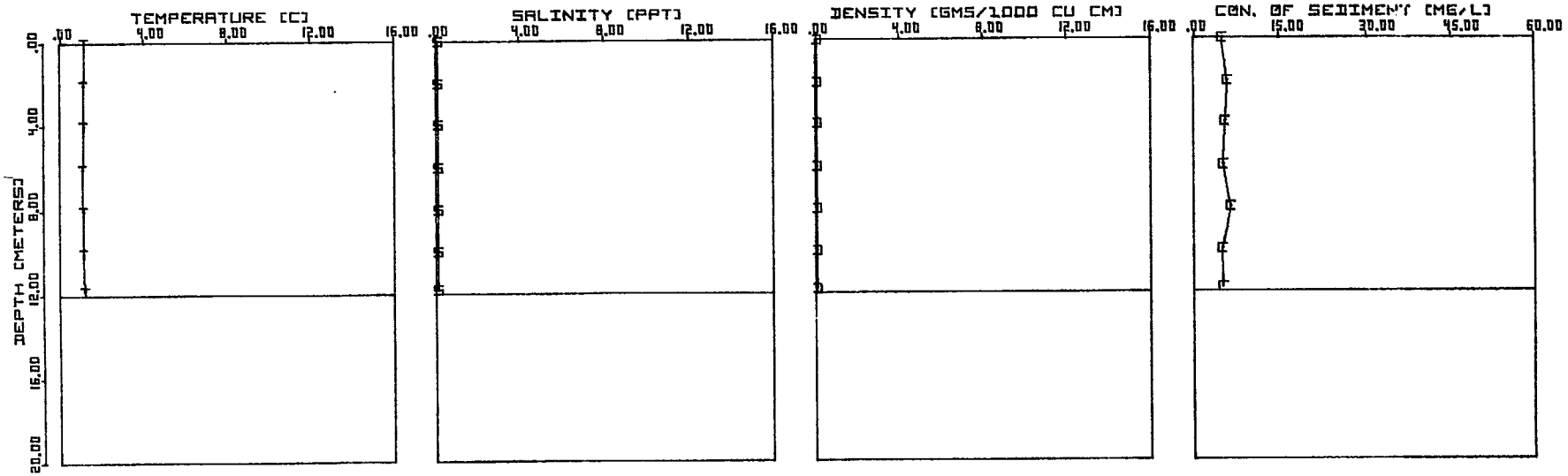
UPPER BAY SURVEY STATION 11B

TIME [1009-1140] 01/23/74



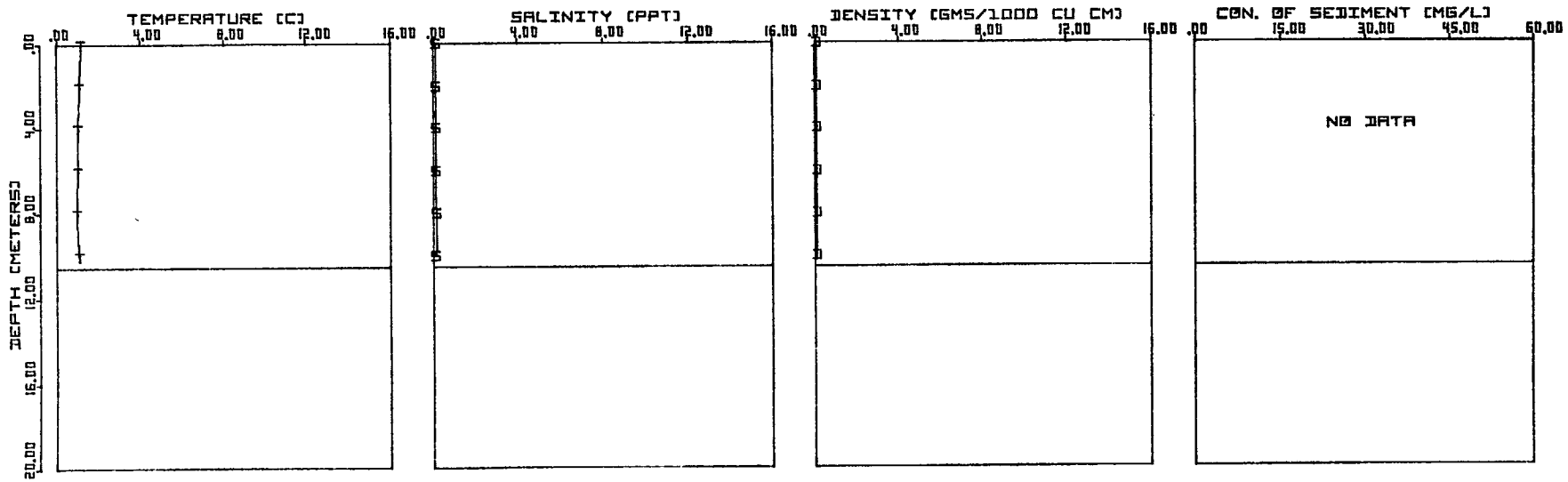
UPPER BAY SURVEY STATION 01A

TIME [1340-1352] 02/12/74



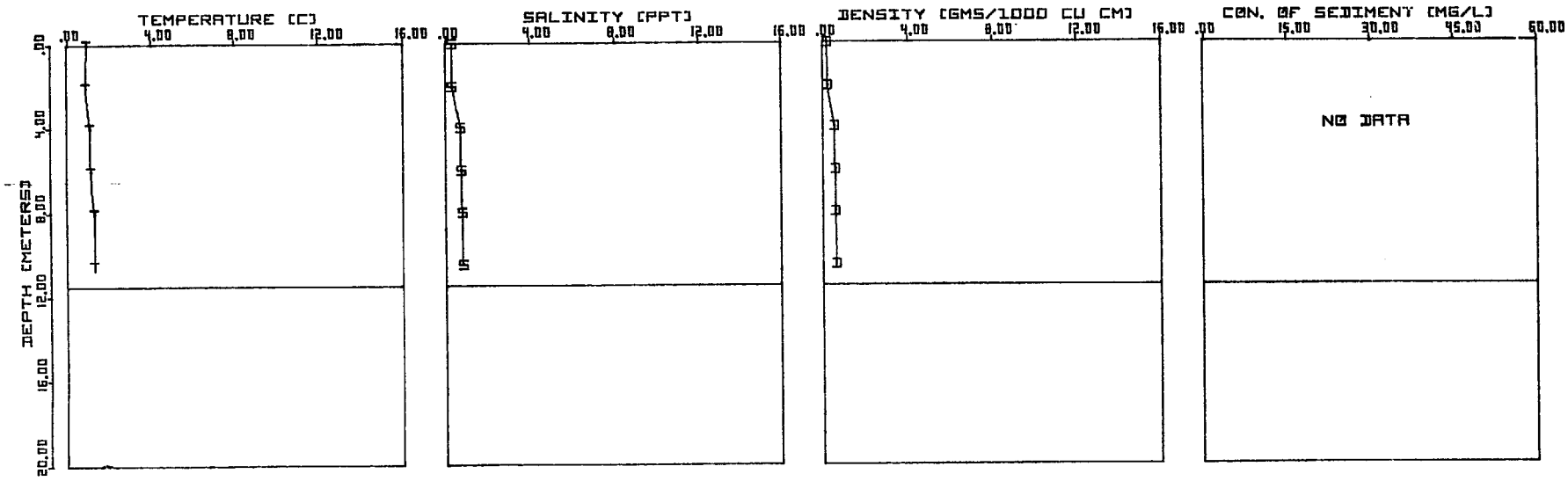
UPPER BAY SURVEY STATION 02C

TIME [1210-1220] 02/14/74



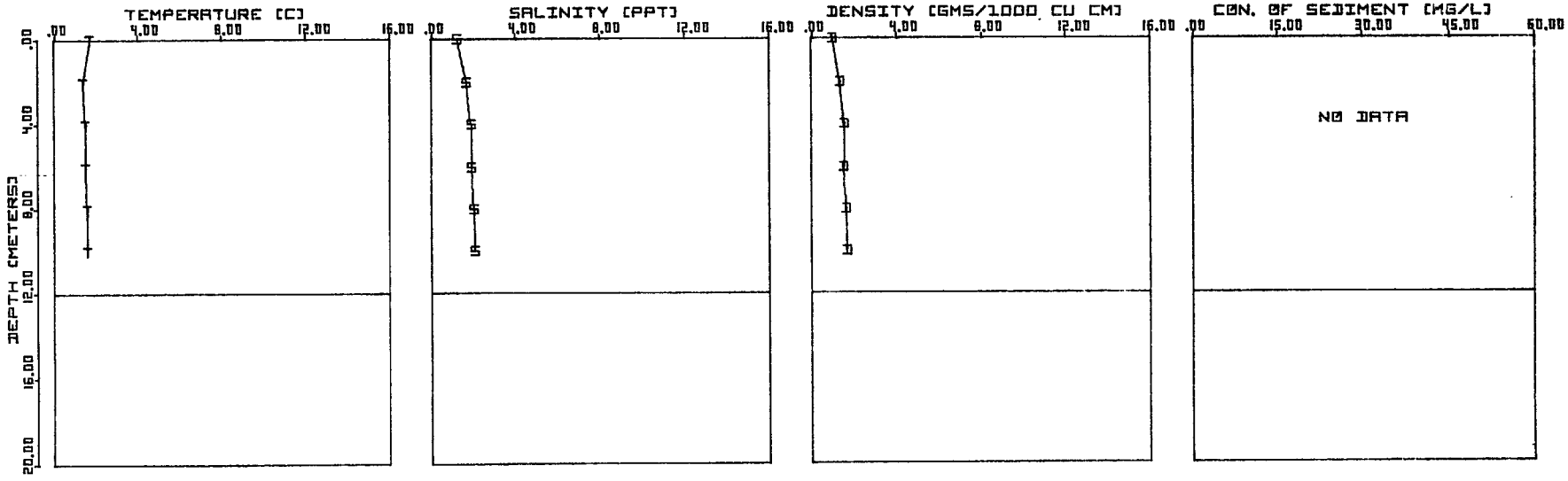
UPPER BAY SURVEY STATION 03B

TIME [1100-1110] 02/12/74



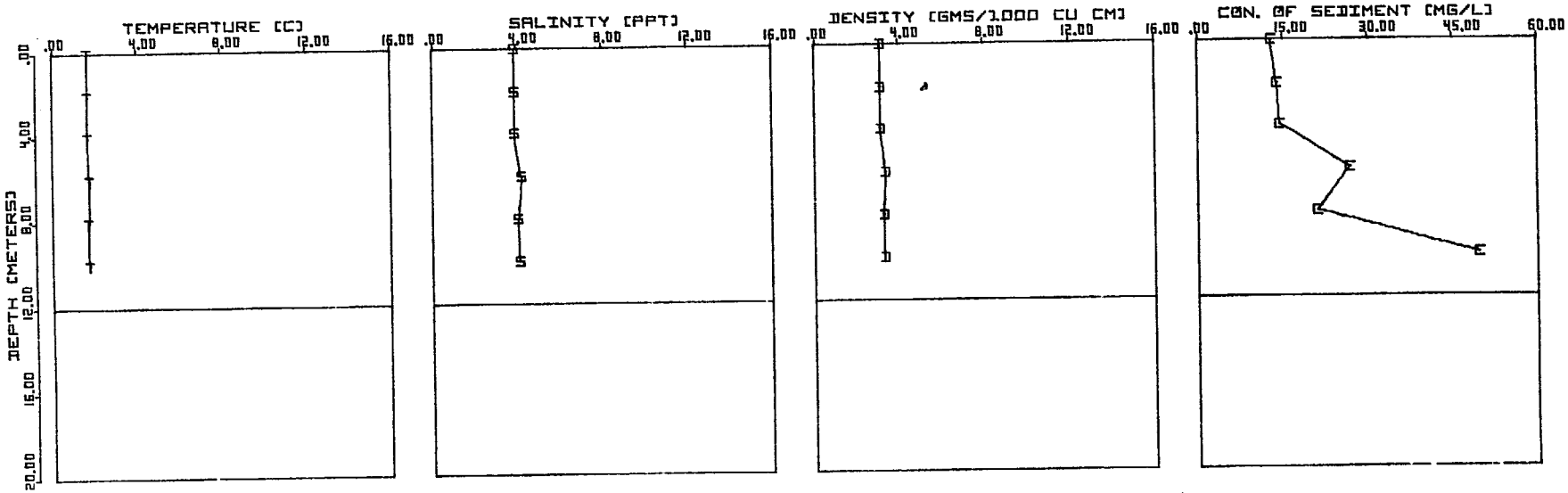
UPPER BAY SURVEY STATION 04B

TIME [0945-0955] 02/12/74



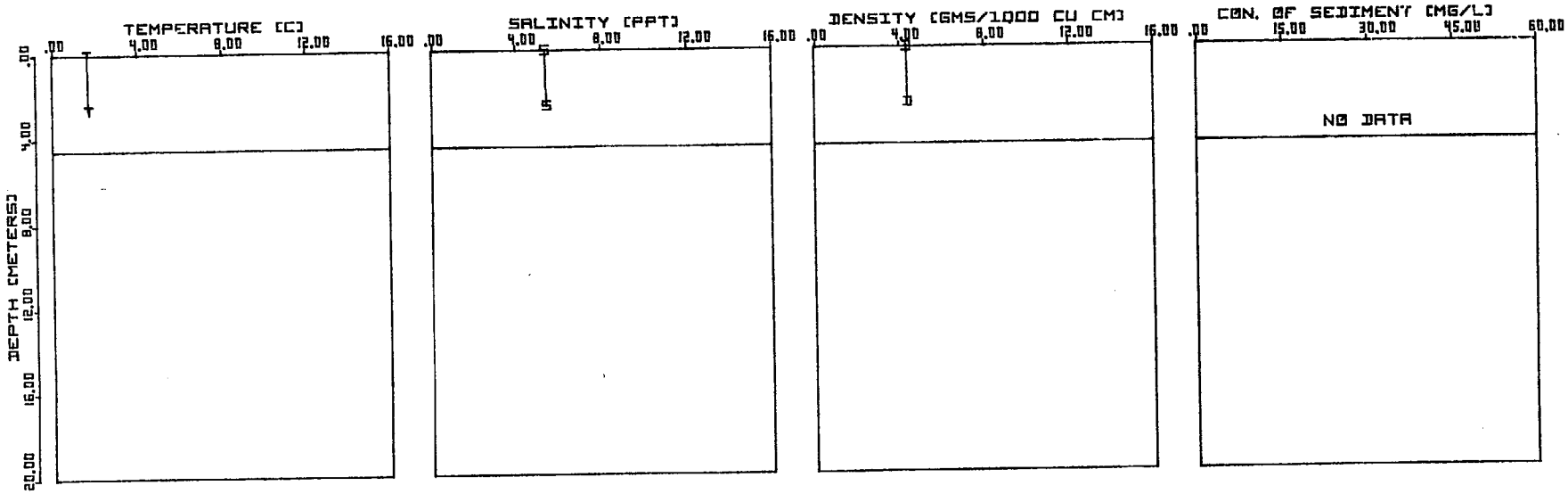
UPPER BAY SURVEY STATION 05A

TIME [0835-0845] 02/12/74



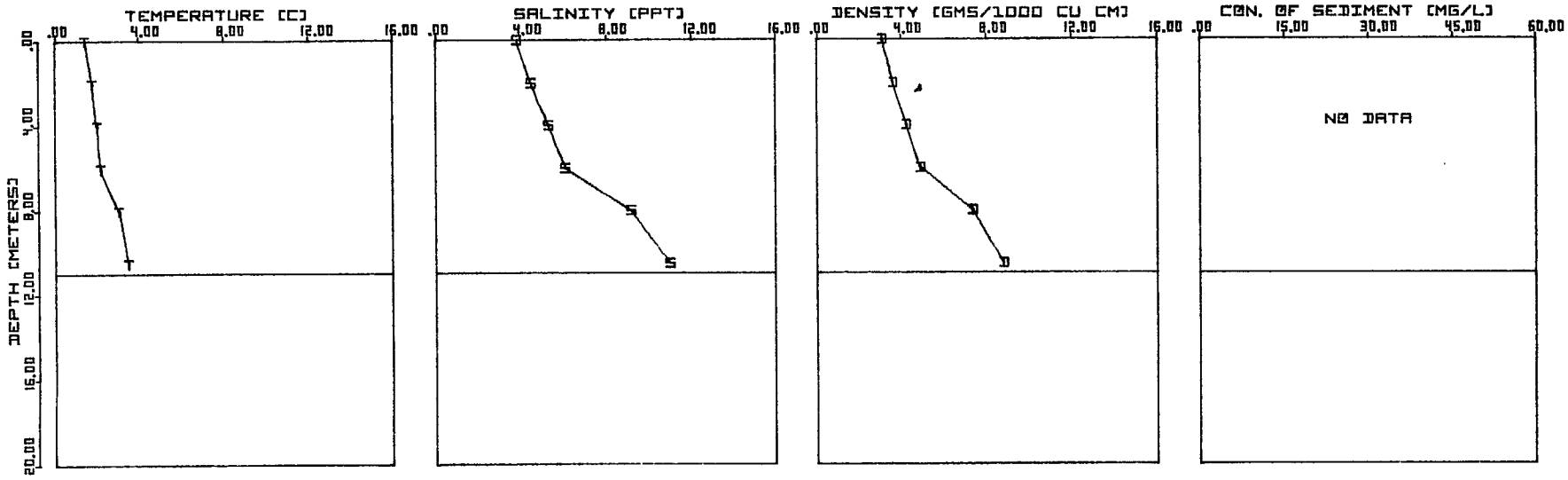
UPPER BAY SURVEY STATION 06B

TIME [0645-0647] 02/12/74



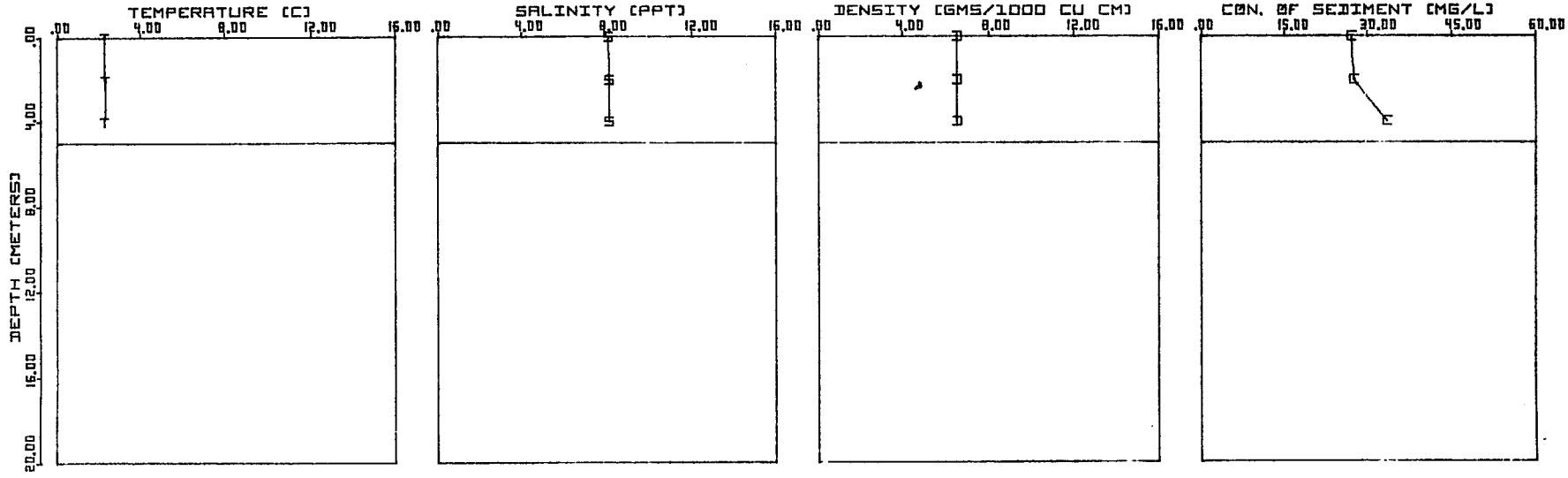
UPPER BAY SURVEY STATION 06C

TIME [0710-0720] 02/12/74



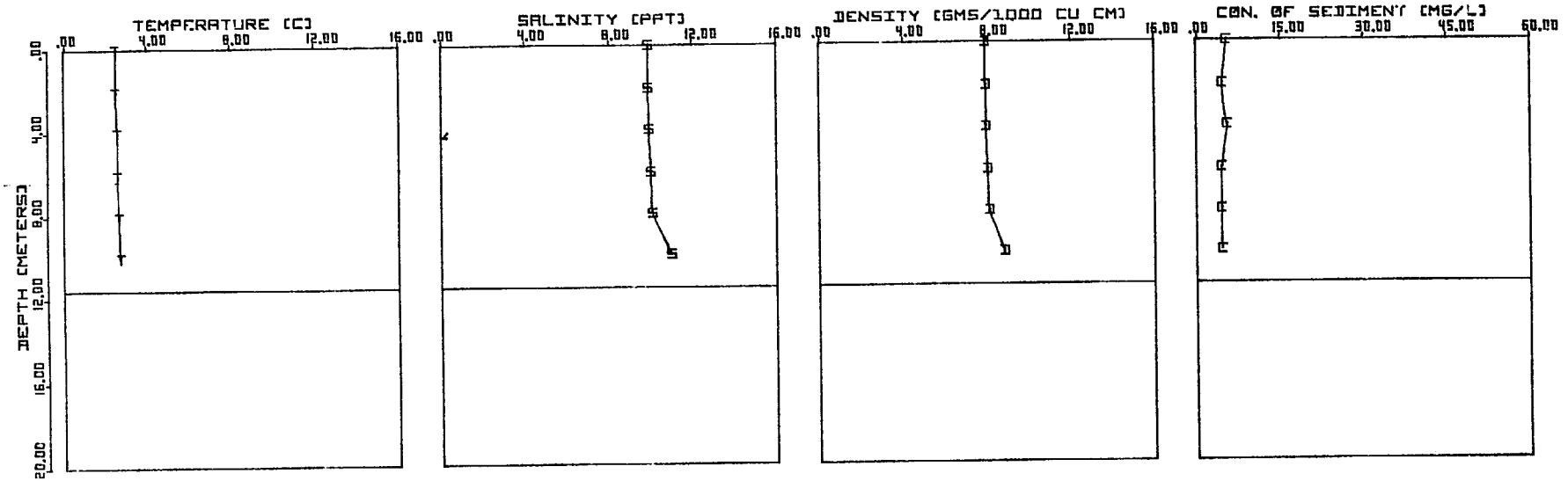
UPPER BAY SURVEY STATION 08B

TIME [1525-1529] 02/11/74



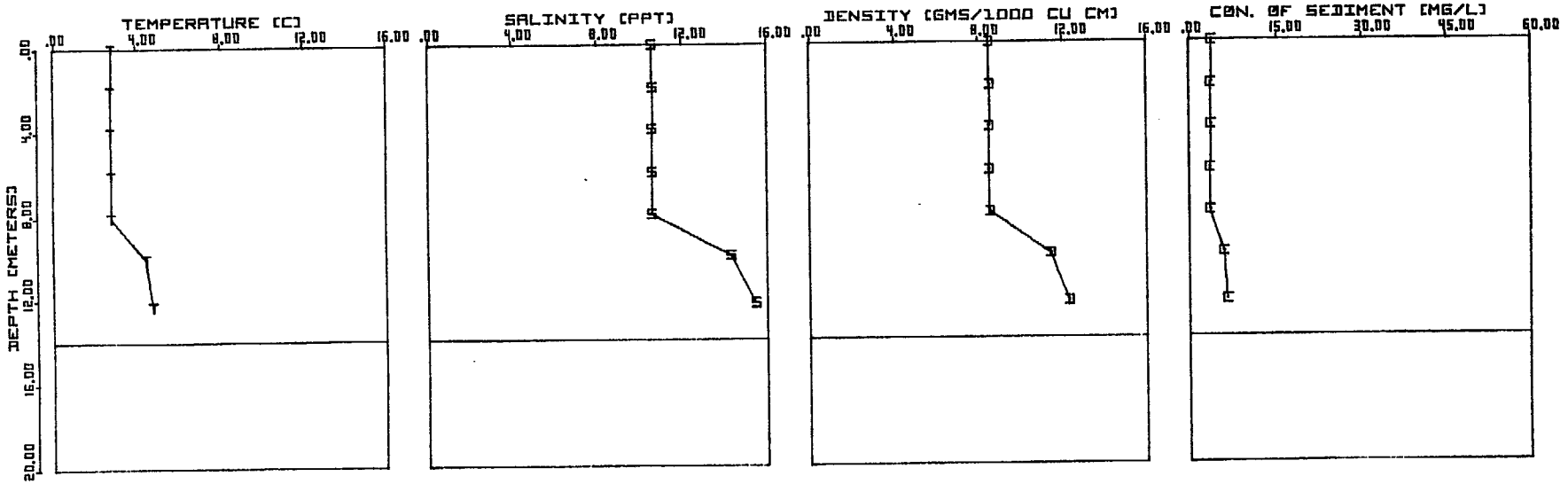
UPPER BAY SURVEY STATION 10B

TIME [1320-1330] 02/11/74



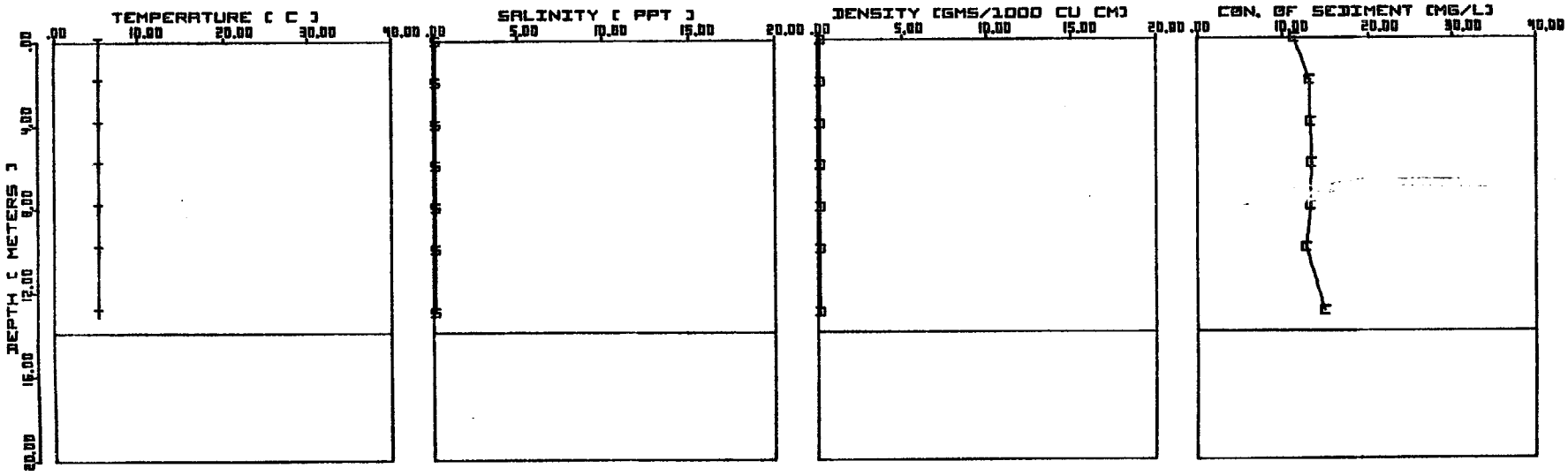
UPPER BAY SURVEY STATION 11B

TIME [1035-1047] 02/11/74



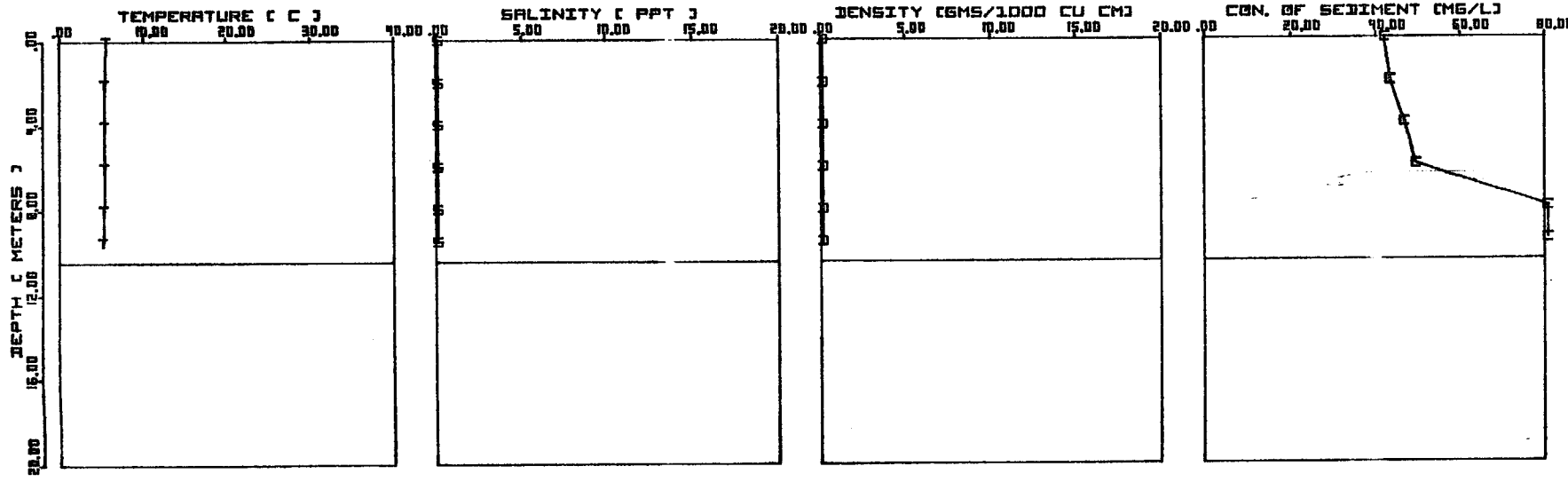
UPPER BAY SURVEY STATION 01A

TIME [1145-1150] 03/21/74



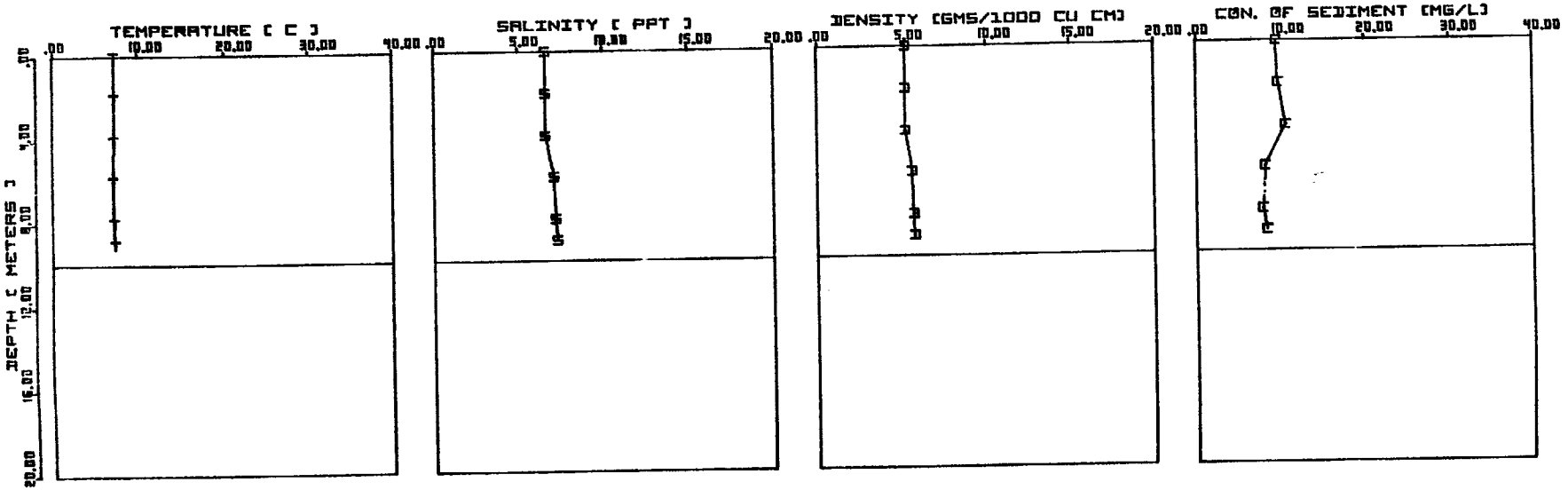
UPPER BAY SURVEY STATION 04B

TIME [1340-1350] 03/20/74



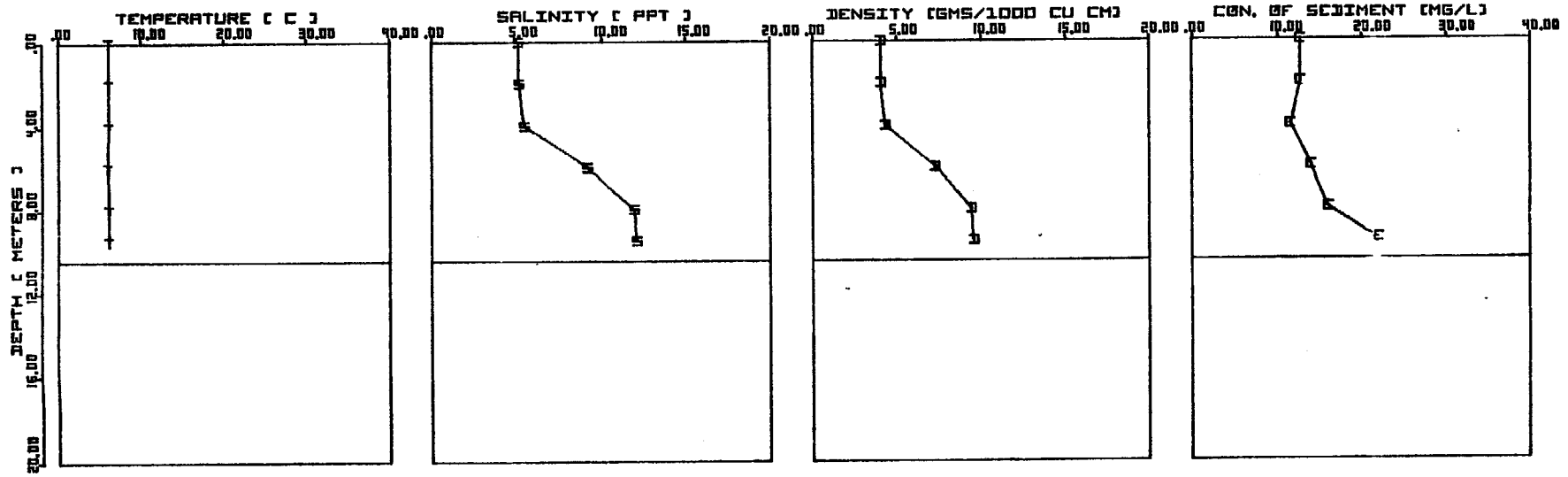
UPPER BAY SURVEY STATION 07A

TIME [1302-1310] 03/21/74



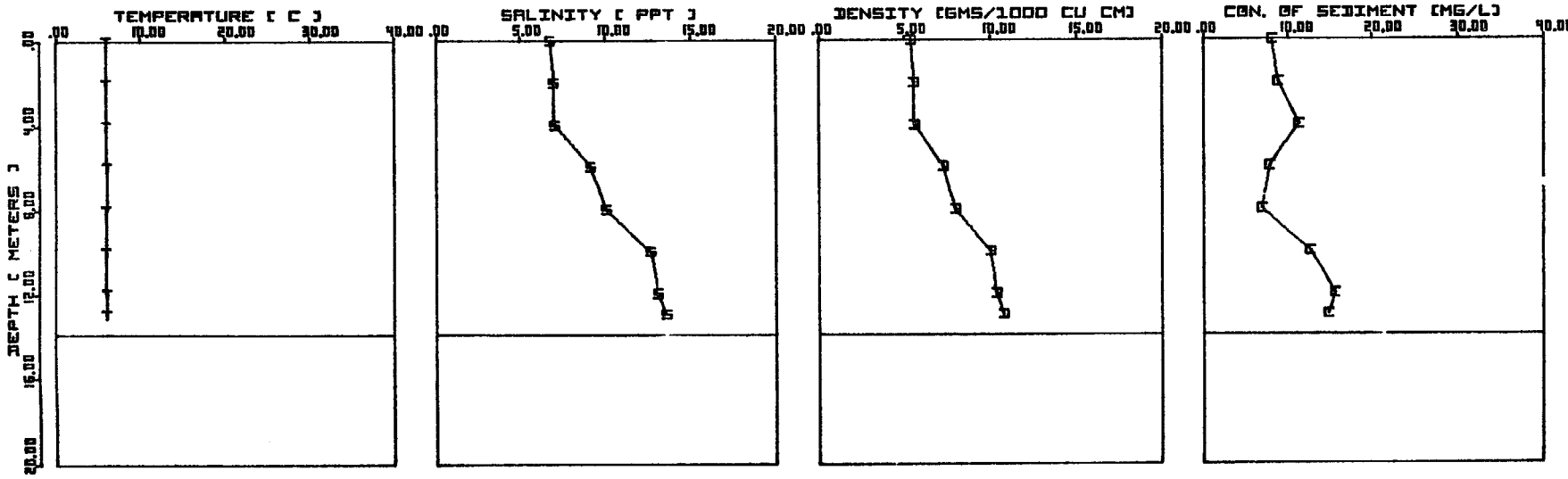
UPPER BAY SURVEY STATION 08C

TIME [0837-0845] 03/20/74



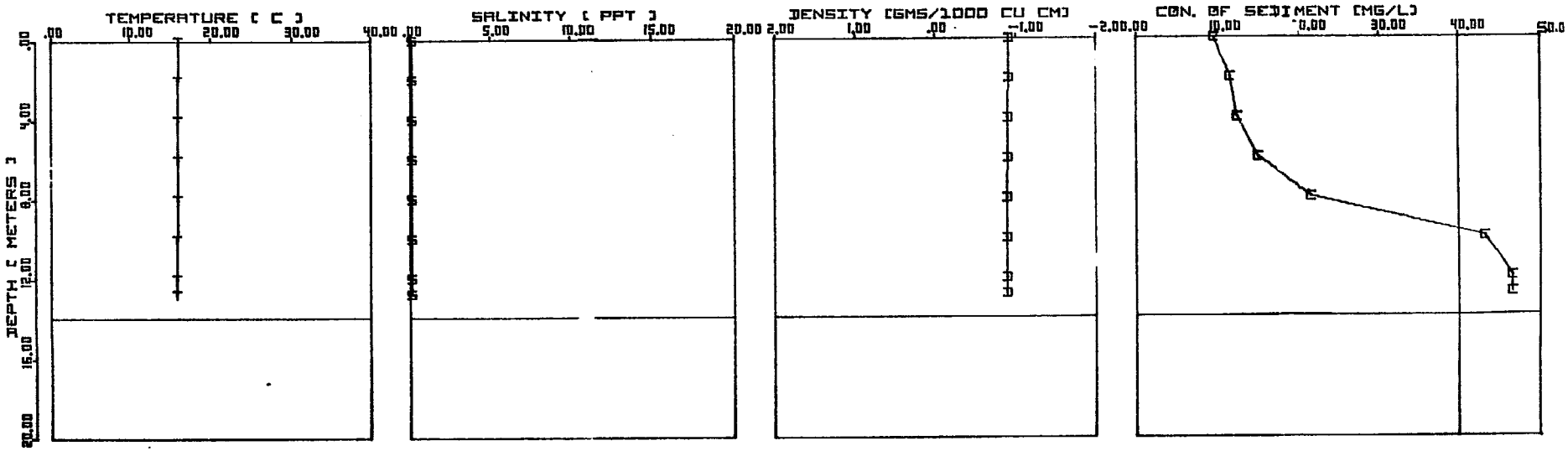
UPPER BAY SURVEY STATION 11B

TIME [0840-0854] 03/20/74



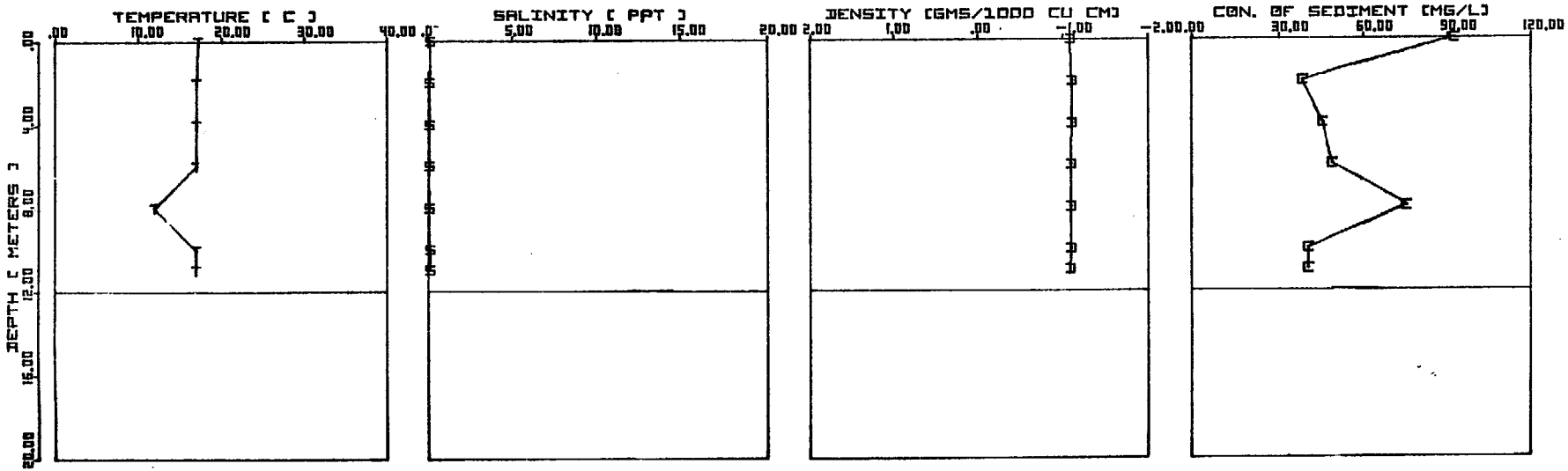
UPPER BAY SURVEY STATION 01A

TIME [1053-1107] 05/03/74



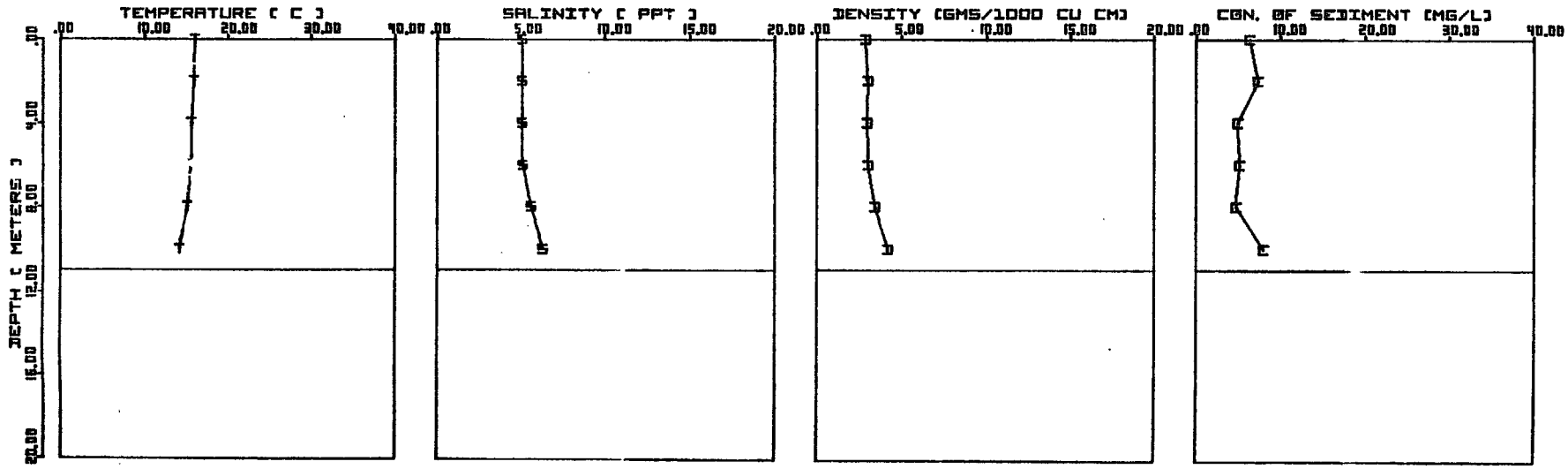
UPPER BAY SURVEY STATION 04B

TI. E [1230-1242] 05/02/74



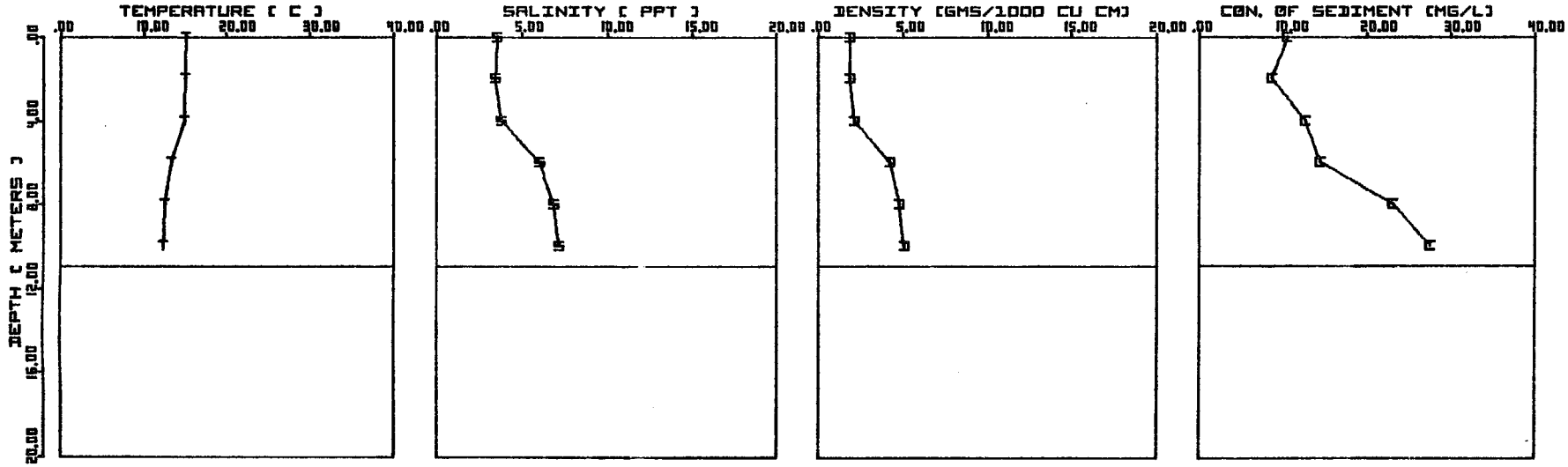
UPPER BAY SURVEY STATION 07A

TIME [1400-1410] 05/02/74



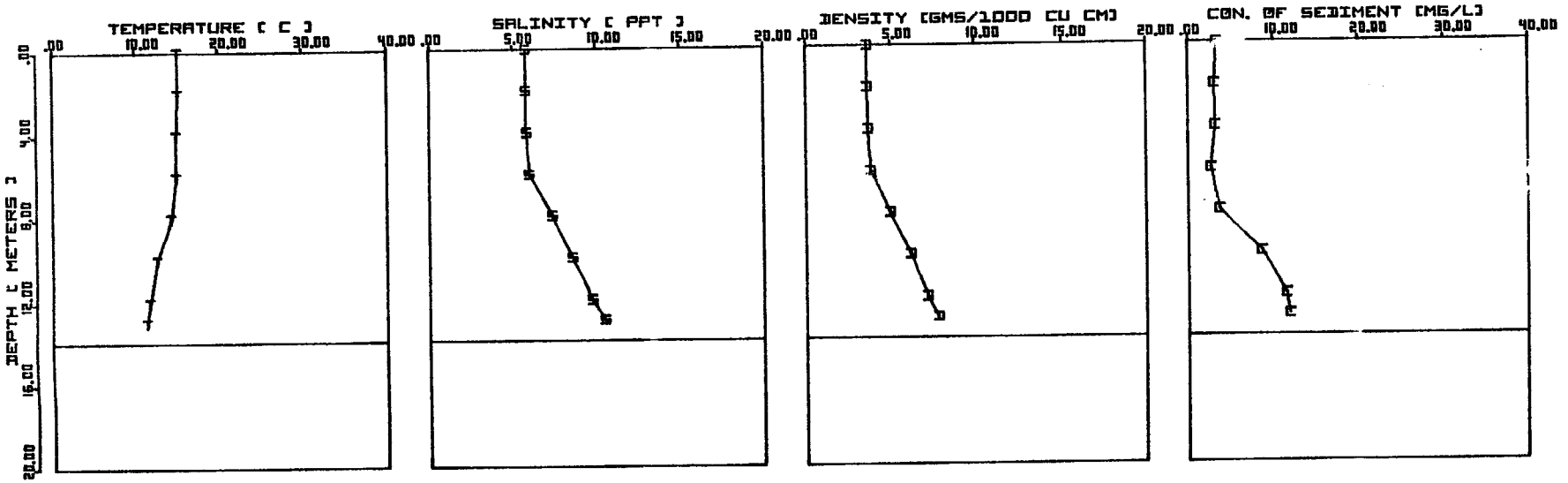
UPPER BAY SURVEY STATION 08C

TIME [0800-0810] 05/02/74



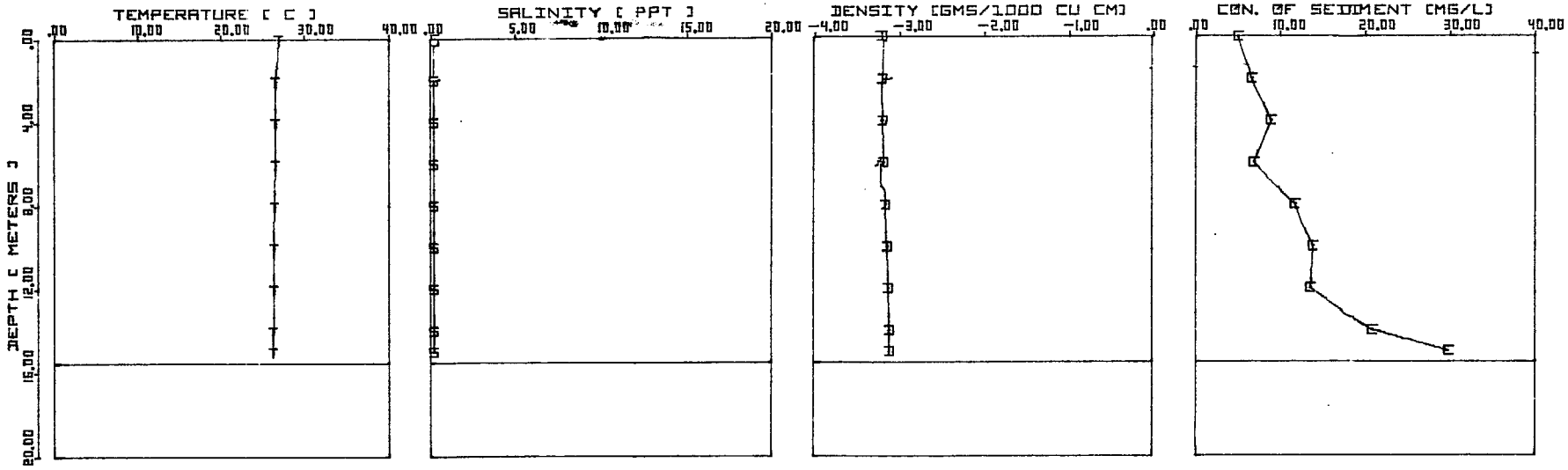
UPPER BAY SURVEY STATION 11B

TIME [1015-1029] 05/01/74



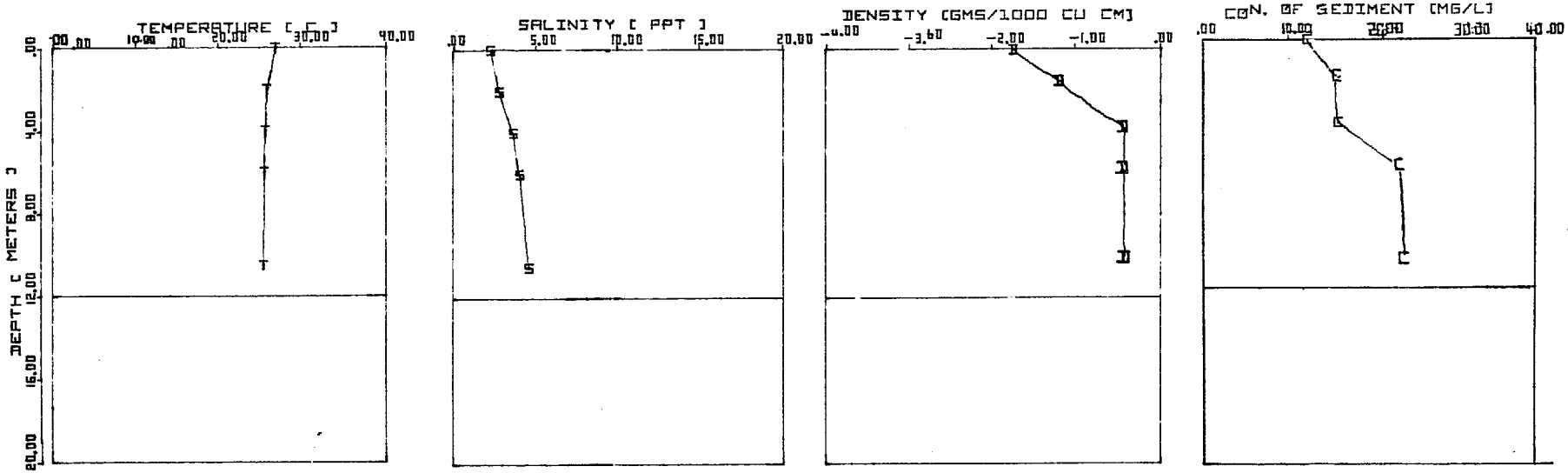
UPPER BAY SURVEY STATION 01A

TIME [1540-1556] 07/31/74



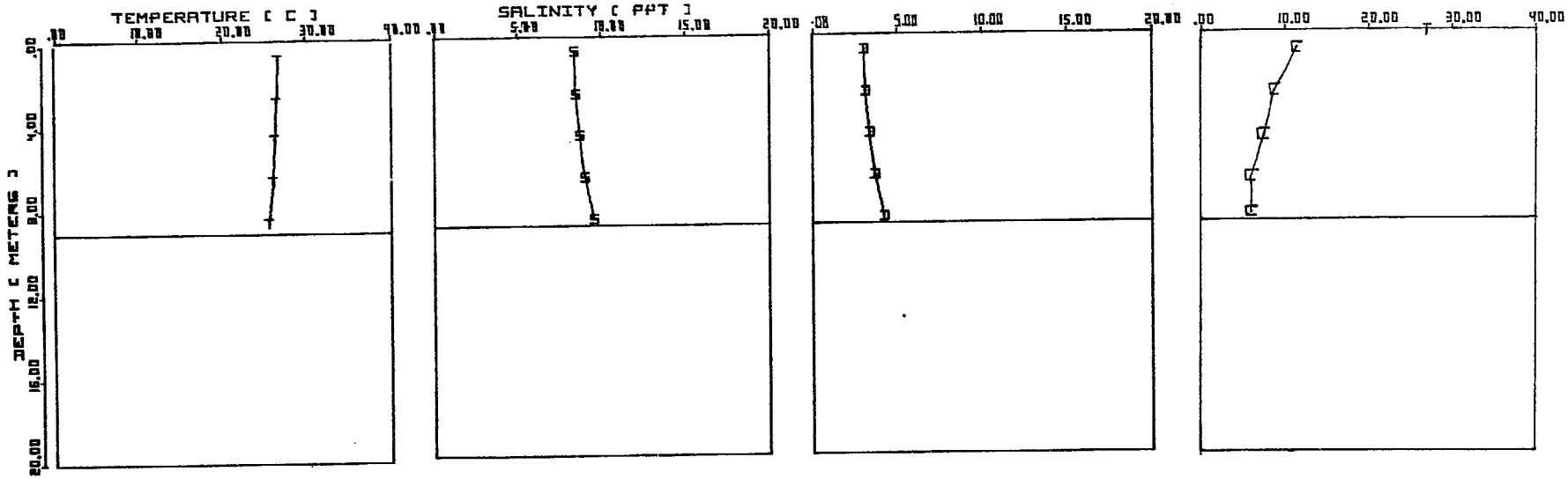
UPPER BAY SURVEY STATION 04B

TIME [1140-1150] 07/31/74



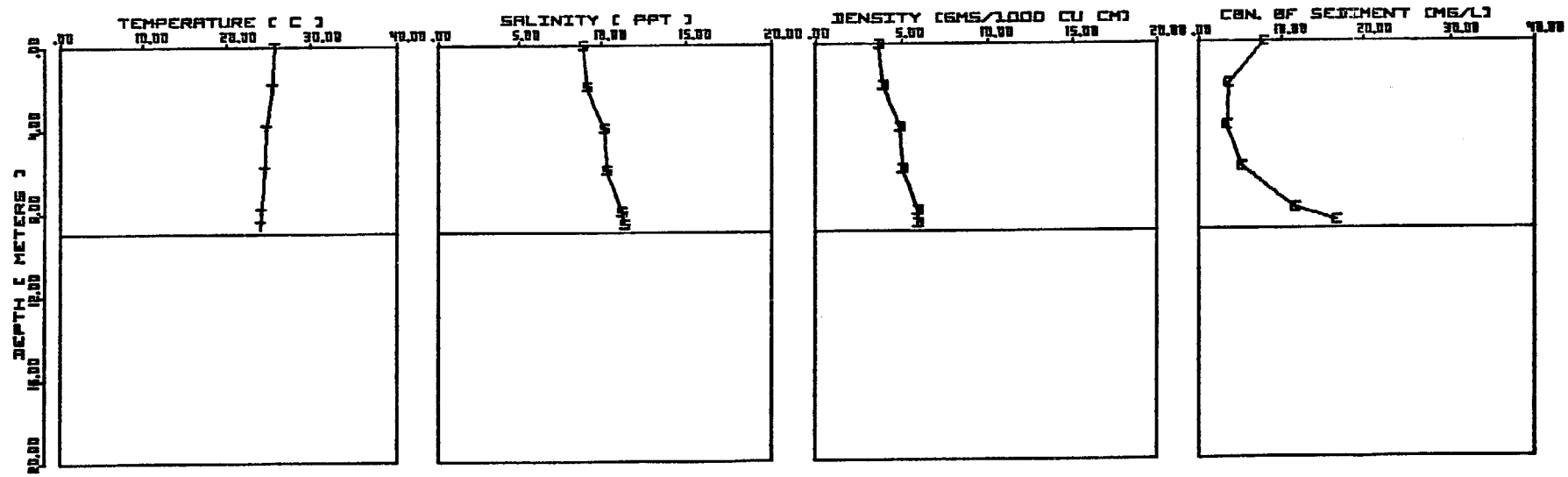
UPPER BAY SURVEY STATION 07A

TIME [0910-0916] 08/01/74



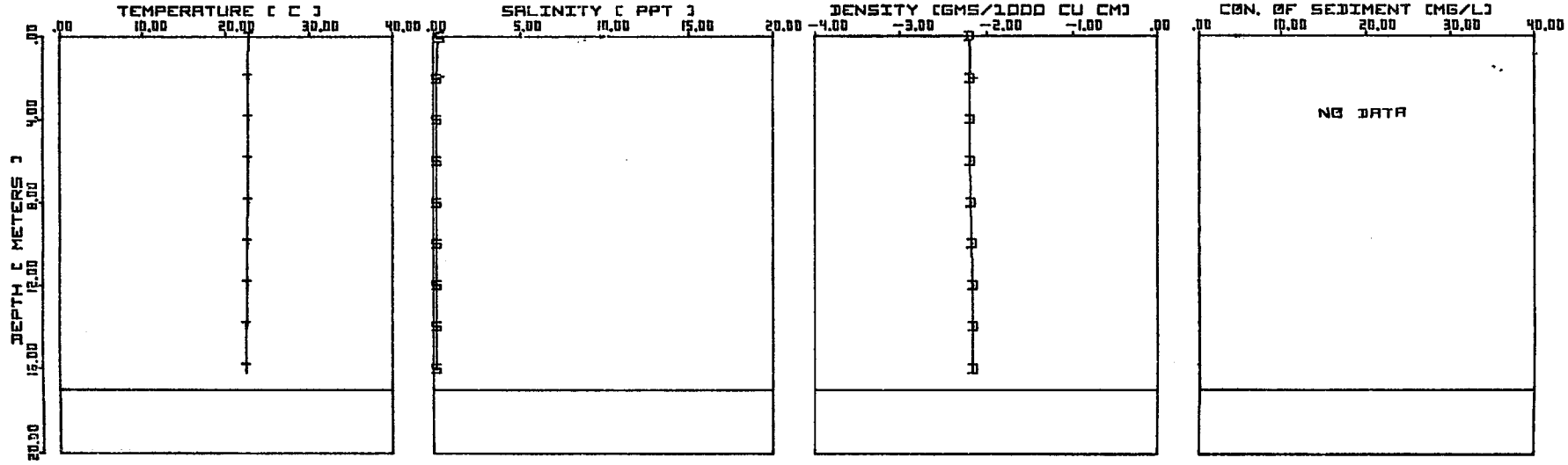
UPPER BAY SURVEY STATION 08C

TIME [0820-0830] 07/31/74



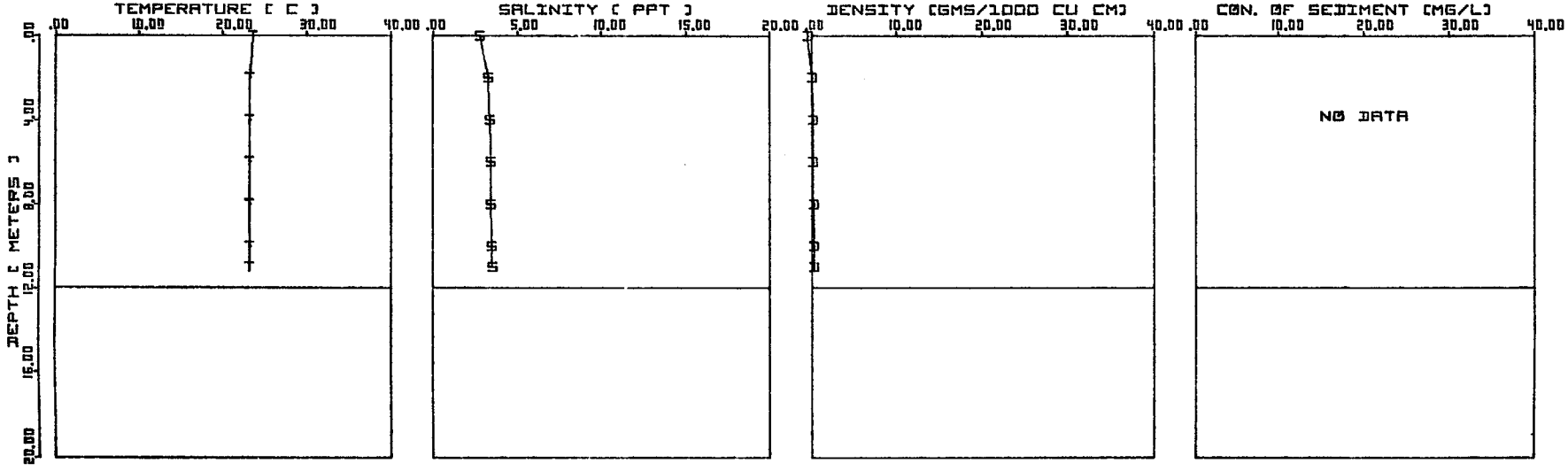
UPPER BAY SURVEY STATION 01A

TIME [1002-1040] 09/20/74



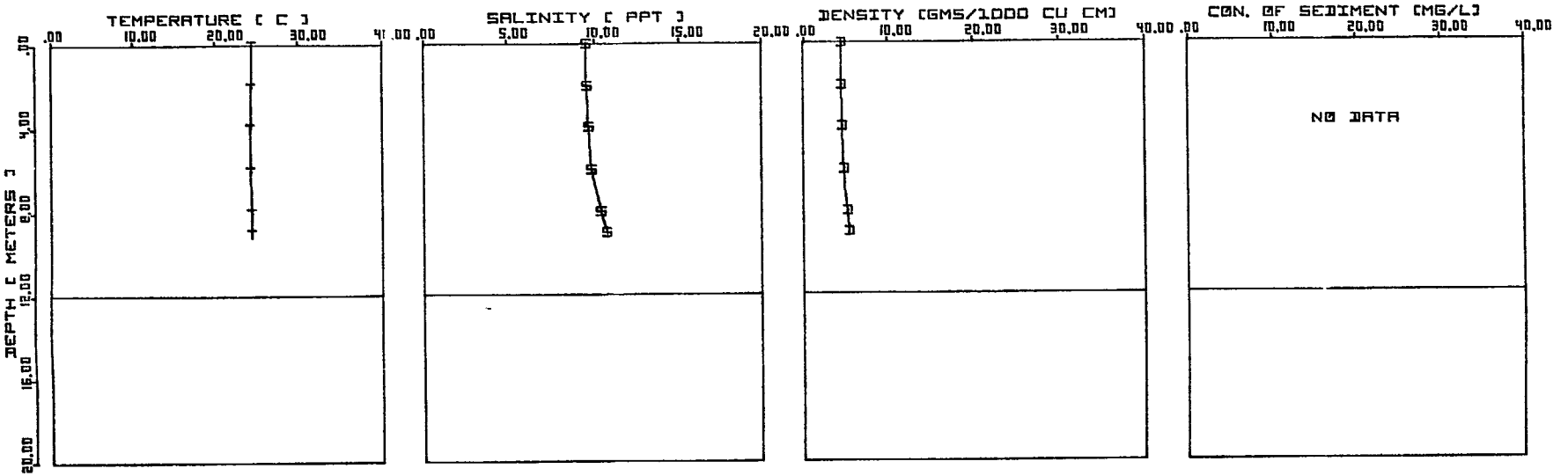
UPPER BAY SURVEY STATION 04B

TIME [1115-1127] 09/18/74



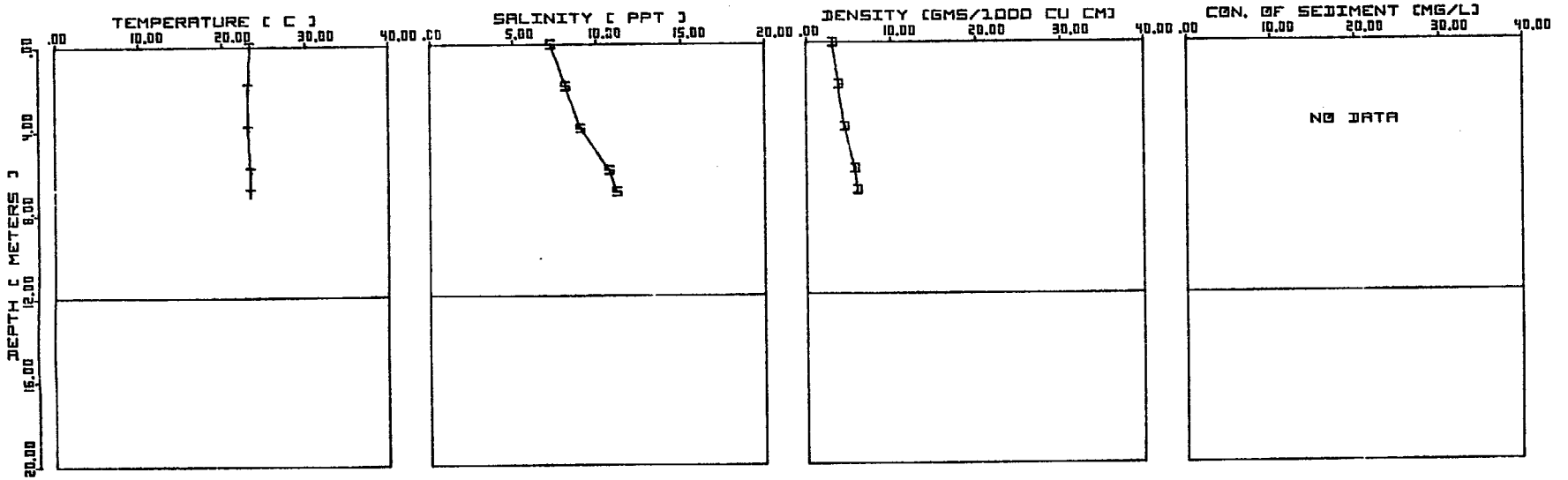
UPPER BAY SURVEY STATION 07A

TIME [1423-1433] 09/18/74



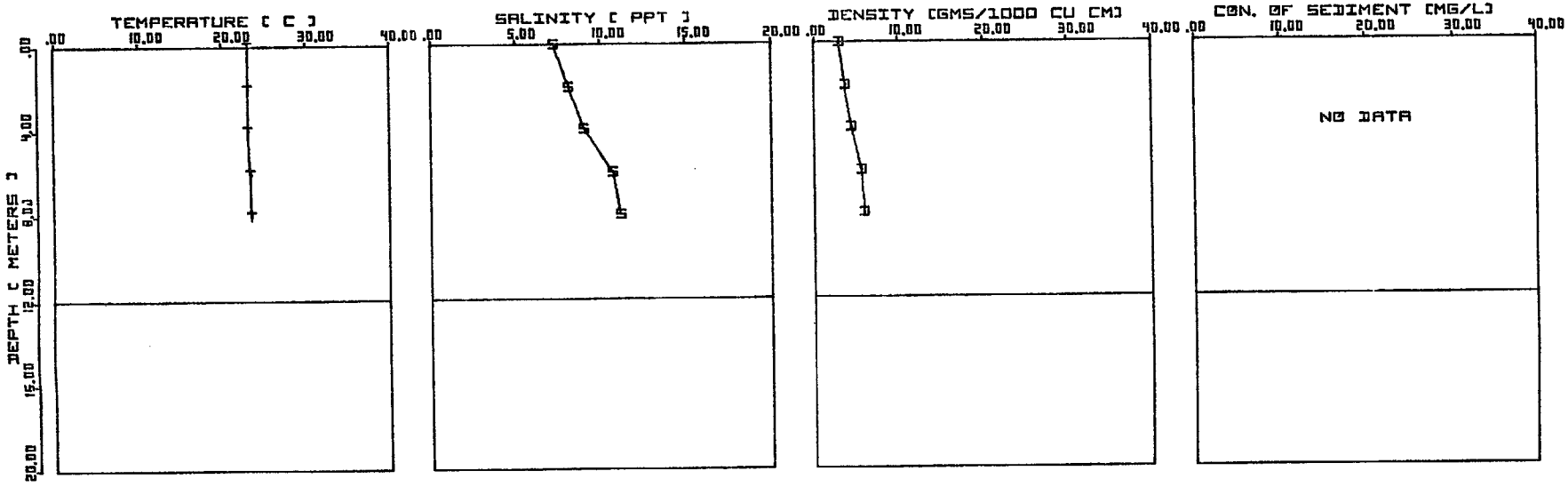
UPPER BAY SURVEY STATION 08B

TIME [1230-1239] 09/18/74



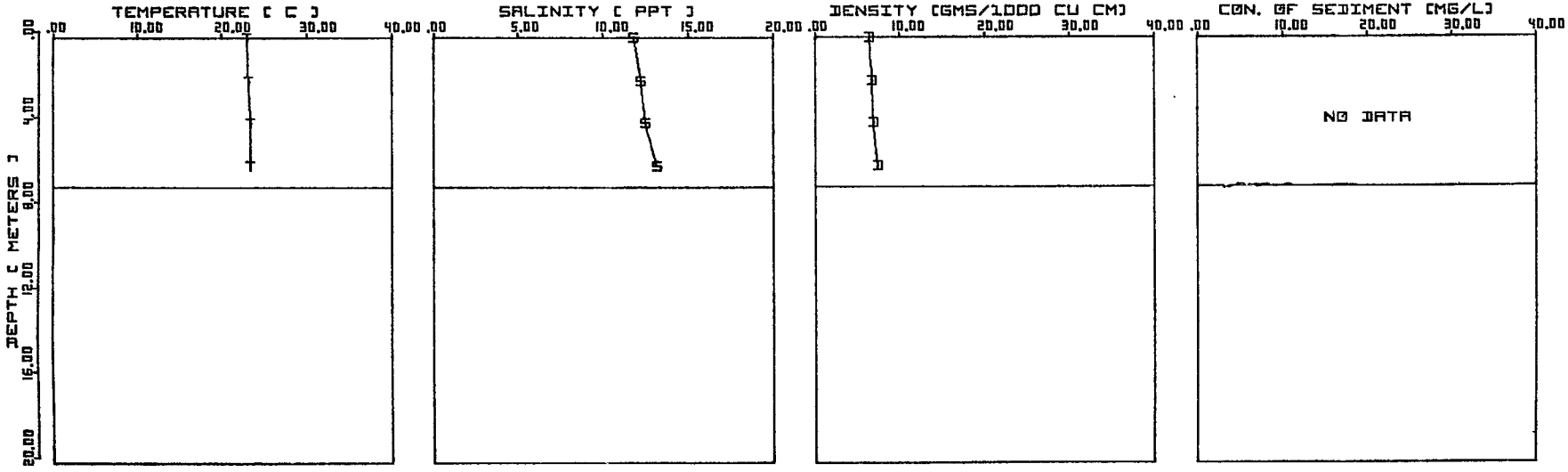
UPPER BAY SURVEY STATION 09A

TIME (1005-1013) 09/18/74



UPPER BAY SURVEY STATION 11A

TIME (0724-0730) 09/18/74



3. STREAM FLOW

3.1 Susquehanna River, December 1973 through December 1974

SUSQUEHANNA RIVER AT CONOWINGO, MD.
DRAINAGE AREA 27,100.000 SQ MI

DISCHARGE, IN CUBIC FEET PER SECOND,

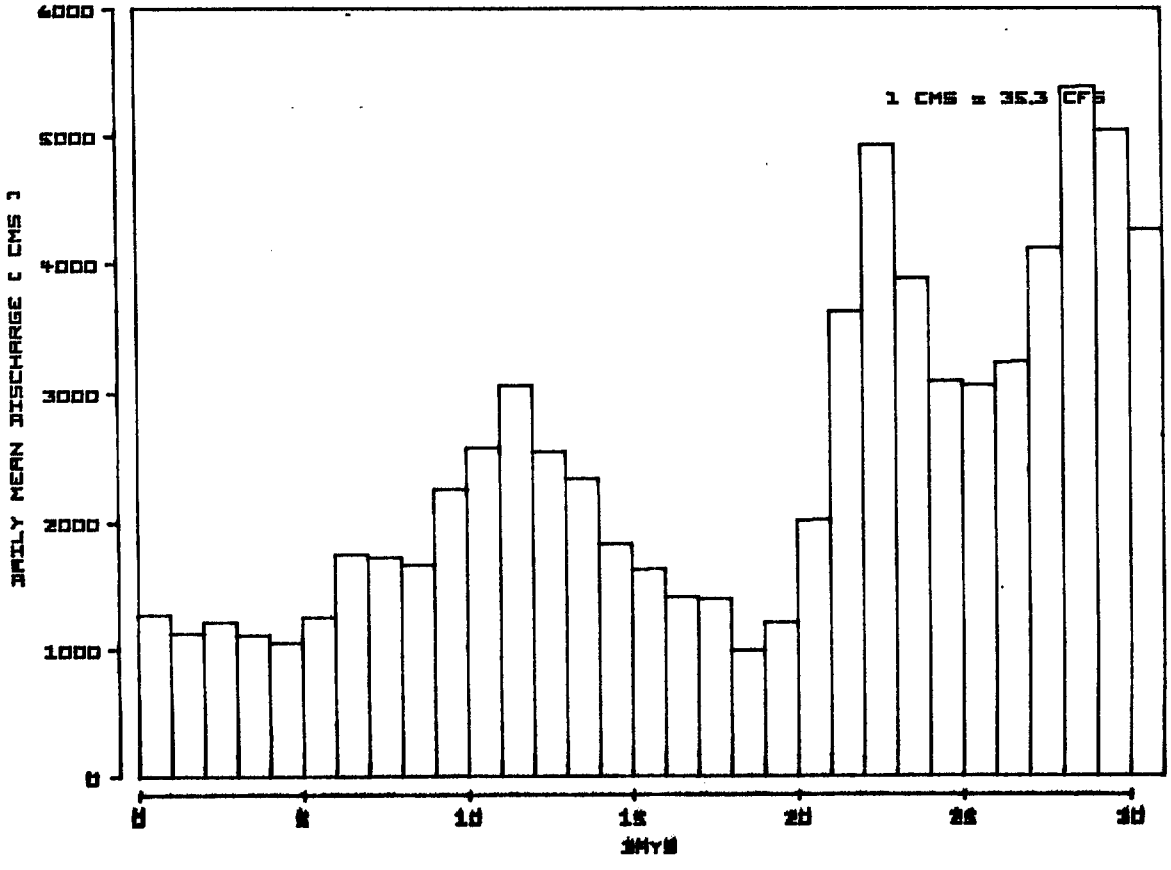
DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN
1	45,100	113,000	108,000	50,100	83,700	32,300	18,200
2	39,800	107,000	86,900	37,500	96,600	28,900	15,600
3	42,800	88,000	76,500	34,700	100,000	35,600	29,000
4	39,100	82,400	75,400	42,300	146,000	27,700	29,500
5	37,100	74,300	67,700	43,000	198,000	26,400	24,700
6	44,200	52,500	54,500	50,700	194,000	37,400	22,700
7	61,300	53,500	48,700	48,200	156,000	33,100	22,700
8	60,900	53,000	43,700	80,100	141,000	29,600	12,900
9	53,800	46,900	32,800	71,700	119,000	32,100	6,610
10	79,800	43,500	25,100	83,300	110,000	33,600	25,600
11	90,900	44,000	35,100	123,000	95,500	27,300	14,200
12	108,000	36,000	27,700	127,000	84,400	24,900	12,500
13	89,800	28,200	29,400	108,000	84,000	50,800	15,300
14	82,600	40,200	36,000	82,500	84,300	66,600	17,100
15	64,500	35,600	39,300	75,900	105,000	82,800	7,800
16	57,700	34,800	25,100	64,100	104,000	88,300	4,050
17	50,100	42,200	20,600	59,500	114,000	81,400	23,900
18	49,400	51,200	26,500	48,100	103,000	65,800	24,800
19	35,000	44,800	28,800	52,800	85,100	44,500	28,100
20	42,700	34,400	29,300	50,600	74,000	45,300	25,500
21	71,400	56,300	28,900	45,900	60,800	48,900	28,600
22	128,000	83,700	29,200	50,500	58,300	48,400	13,200
23	174,000	102,000	47,400	57,600	60,900	34,000	17,100
24	137,000	121,000	56,800	46,000	54,100	38,800	24,600
25	109,000	118,000	70,700	55,200	43,000	20,700	19,700
26	108,000	114,000	81,000	58,300	41,800	24,600	20,700
27	114,000	91,700	74,500	49,600	30,000	25,900	24,500
28	145,000	93,300	62,200	45,900	32,000	29,800	20,400
29	190,000	106,000	------	46,100	35,000	31,100	19,200
30	178,000	122,000	------	44,300	32,200	27,700	14,900
31	150,000	122,000	------	55,100	------	27,000	------

SUSQUEHANNA RIVER AT CONOWINGO, MD.
DRAINAGE AREA 27,100.000 SQ MI

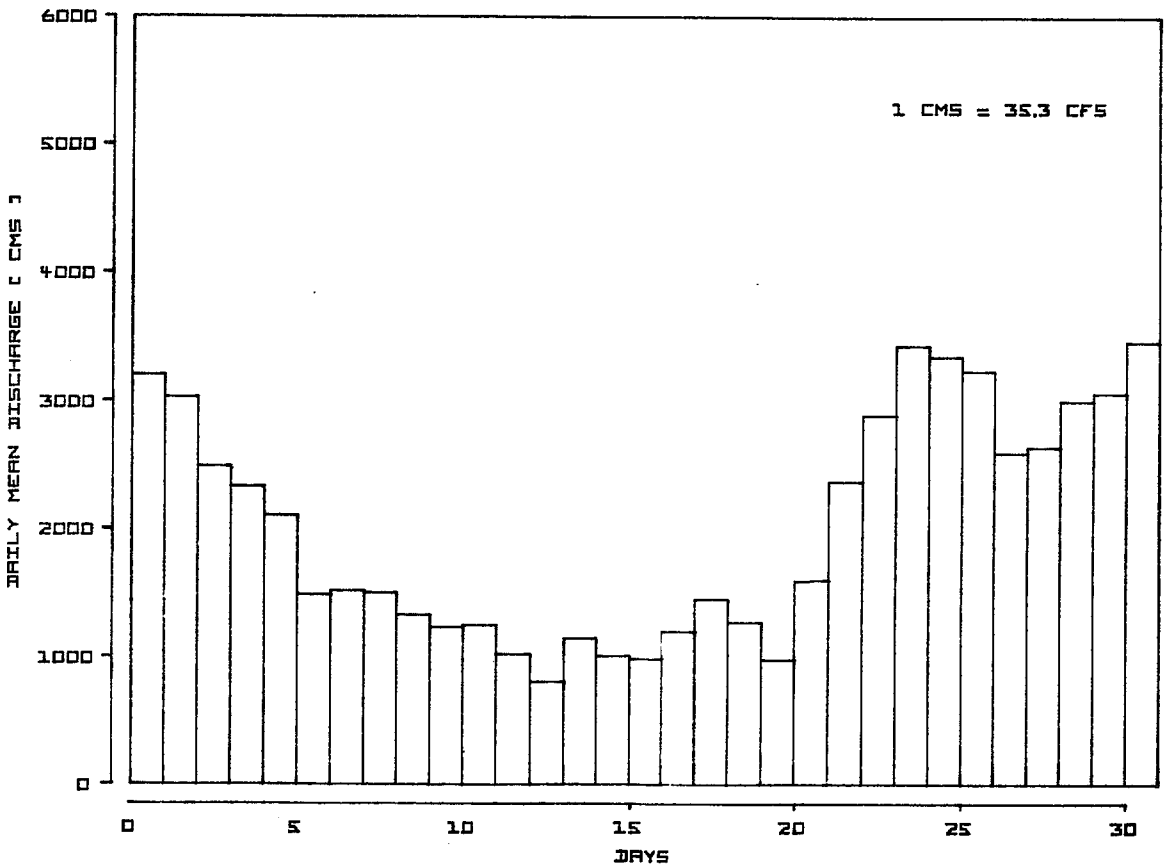
DISCHARGE, IN CUBIC FEET PER SECOND,

DAY	JUL	AUG	SEP	OCT	NOV	DEC
1	37,800	19,000	2,960	22,600	17,400	27,500
2	50,100	18,200	9,640	18,500	4,210	41,300
3	53,100	19,200	31,800	16,000	1,830	39,800
4	54,500	11,500	38,800	10,800	7,370	39,800
5	48,900	26,100	31,400	11,500	11,200	27,500
6	28,900	19,900	44,100	3,950	11,500	31,100
7	23,500	14,000	33,200	14,900	12,100	17,000
8	35,600	16,300	27,000	16,700	15,300	31,000
9	36,300	19,300	32,500	15,200	12,600	57,600
10	32,100	4,630	31,400	16,200	3,320	83,100
11	24,500	1,250	22,400	17,200	20,500	110,000
12	16,700	14,400	22,500	5,960	25,500	105,000
13	14,700	13,200	20,500	1,170	26,800	85,700
14	11,300	13,200	11,300	11,300	25,500	76,300
15	24,600	9,600	9,590	15,700	31,700	62,300
16	15,700	10,300	22,100	19,900	19,600	55,800
17	12,500	4,990	19,600	17,100	18,300	77,700
18	15,800	1,380	19,500	18,000	37,000	84,700
19	18,400	8,170	20,400	6,890	35,900	83,500
20	7,950	10,600	15,400	1,420	32,100	71,900
21	969	9,530	10,900	14,100	30,200	62,900
22	14,300	10,700	1,420	14,700	35,600	46,000
23	11,900	13,900	20,200	14,500	28,200	47,700
24	11,200	3,960	21,800	15,500	18,500	36,800
25	12,600	1,280	22,400	17,300	38,900	34,900
26	20,000	9,830	23,500	2,010	47,600	36,100
27	3,600	8,990	25,000	1,350	37,000	49,900
28	928	9,910	14,300	8,100	26,100	46,300
29	15,300	9,080	11,600	13,600	33,900	42,000
30	19,200	10,900	18,600	15,300	24,300	48,900
31	21,900	6,410	----	11,500	------	44,000

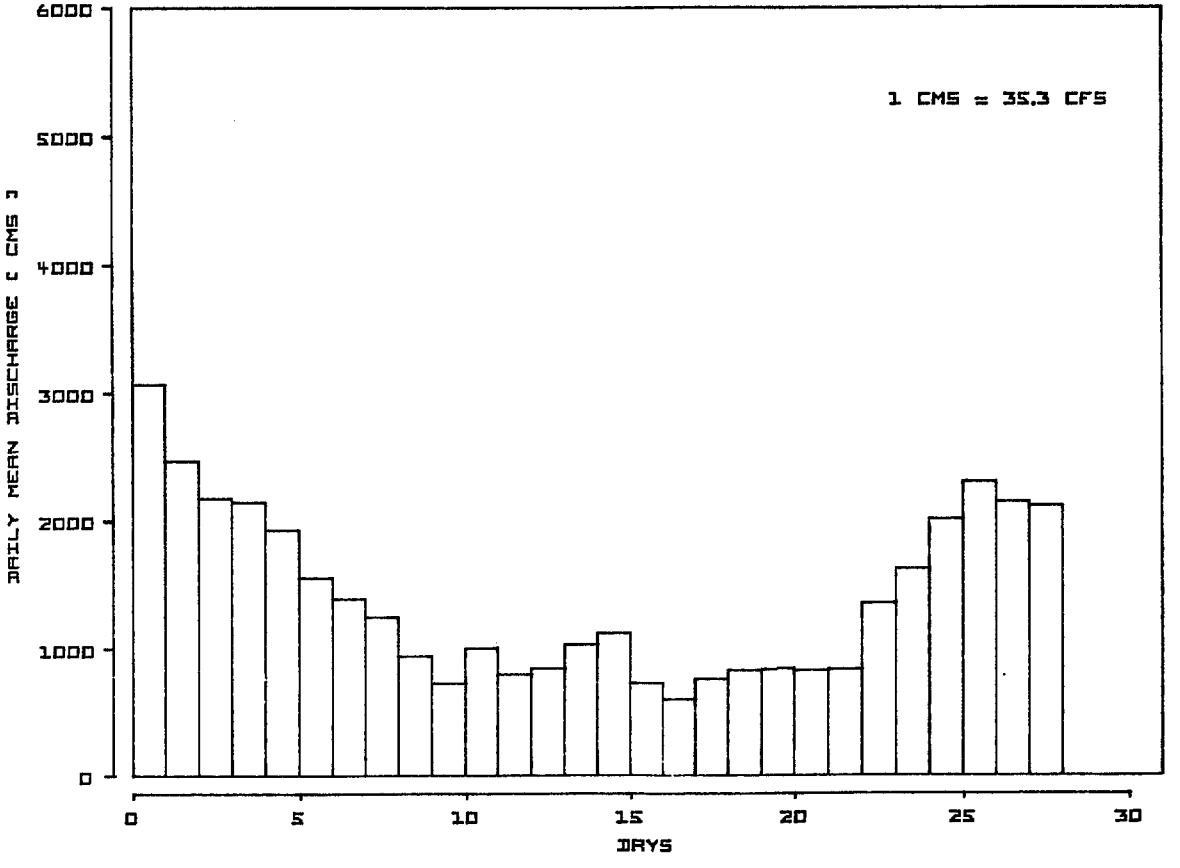
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
DECEMBER 1973
[MONTHLY AVERAGE IS 2453 CMS]



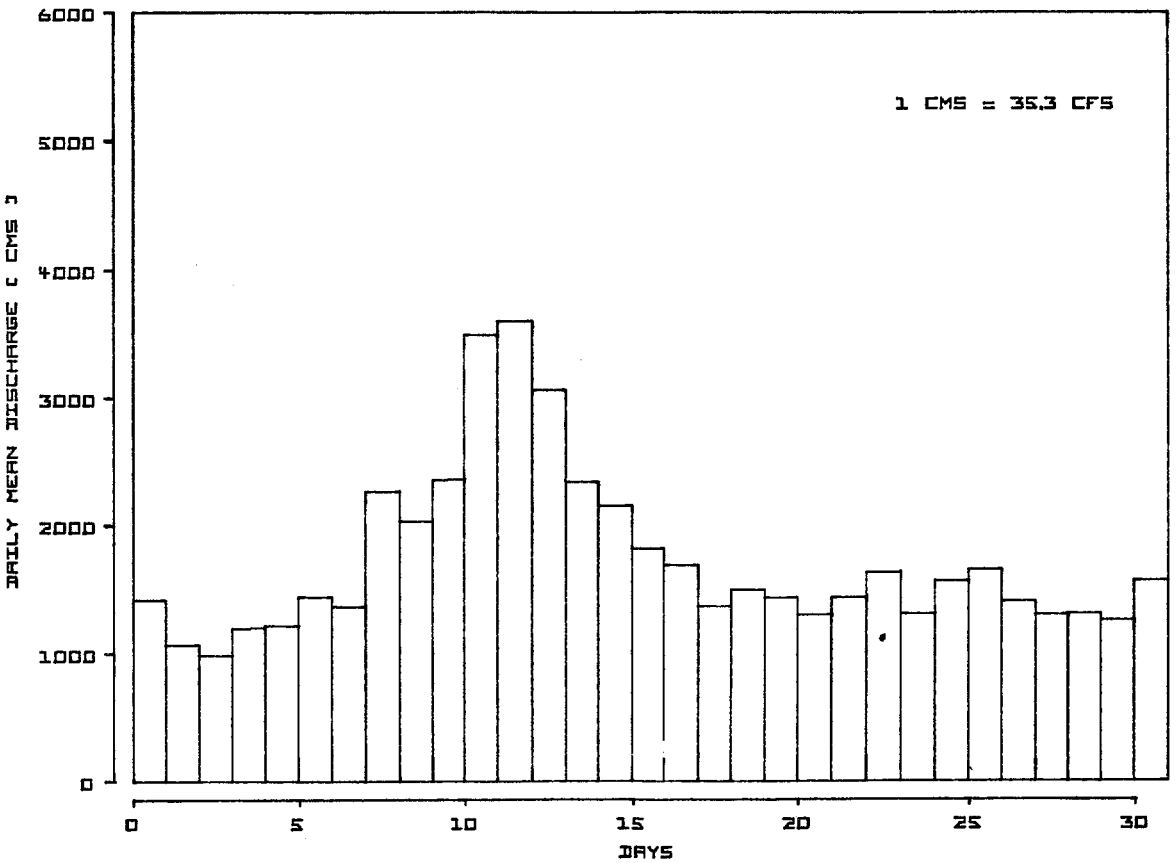
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
JANUARY 1974
[MONTHLY AVERAGE IS 2030 CMS]



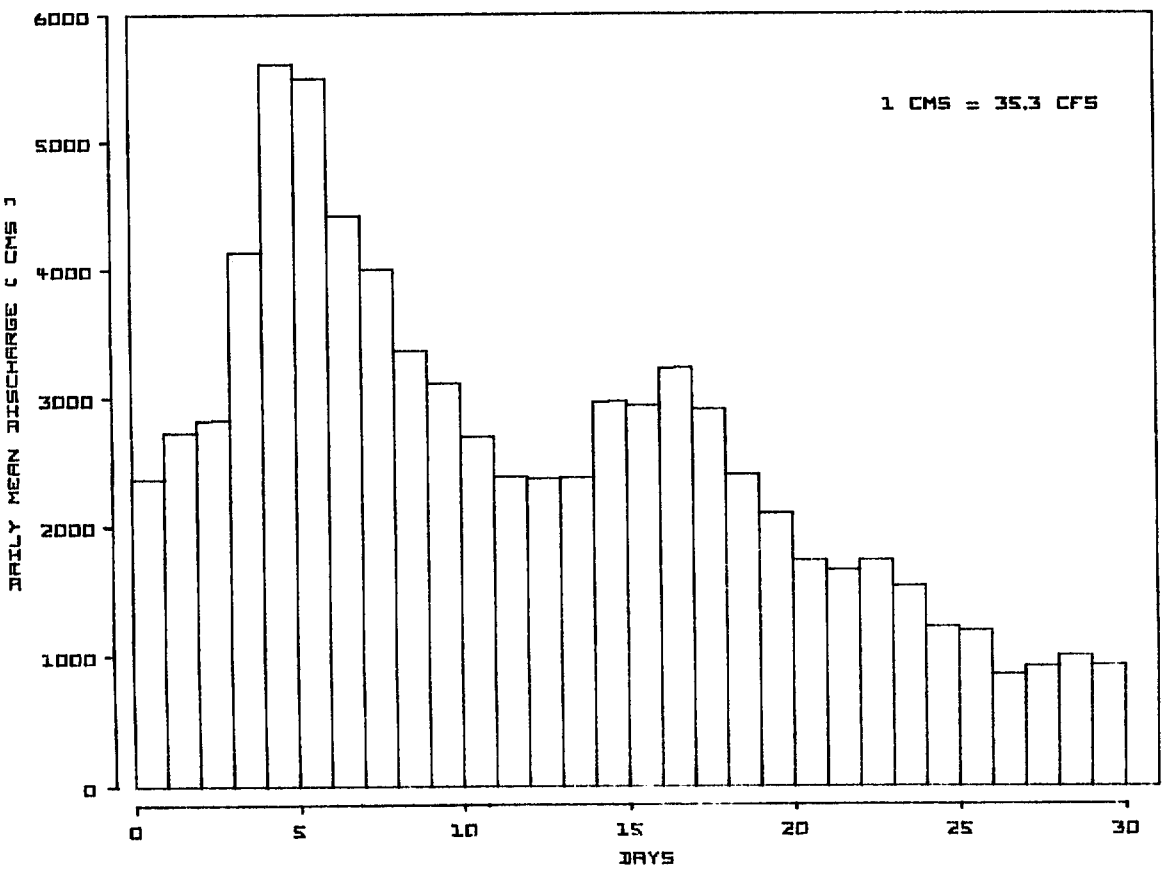
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
FEBRUARY 1974
[MONTHLY AVERAGE IS 1397 CMS]



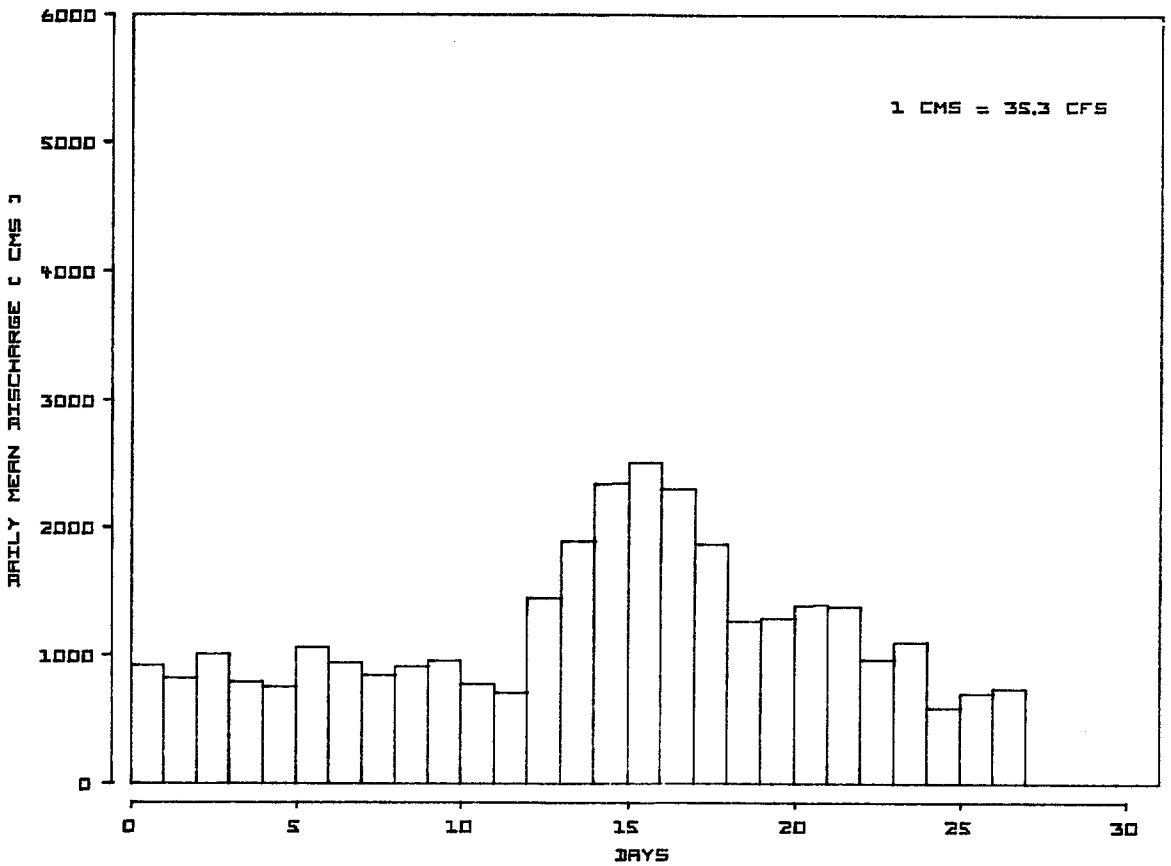
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
MARCH 1974
[MONTHLY AVERAGE IS 1725 CMS]



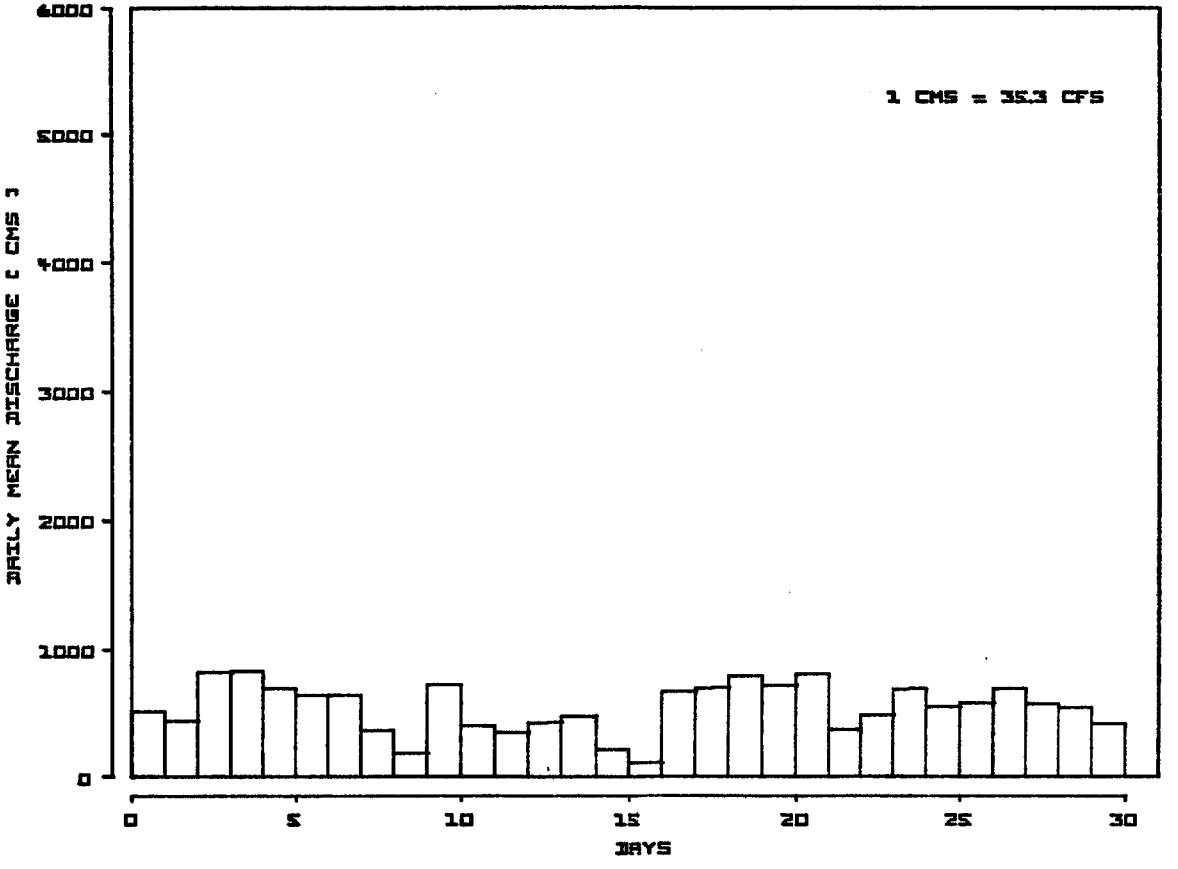
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
APRIL 1974
[MONTHLY AVERAGE IS 2574 CMS]



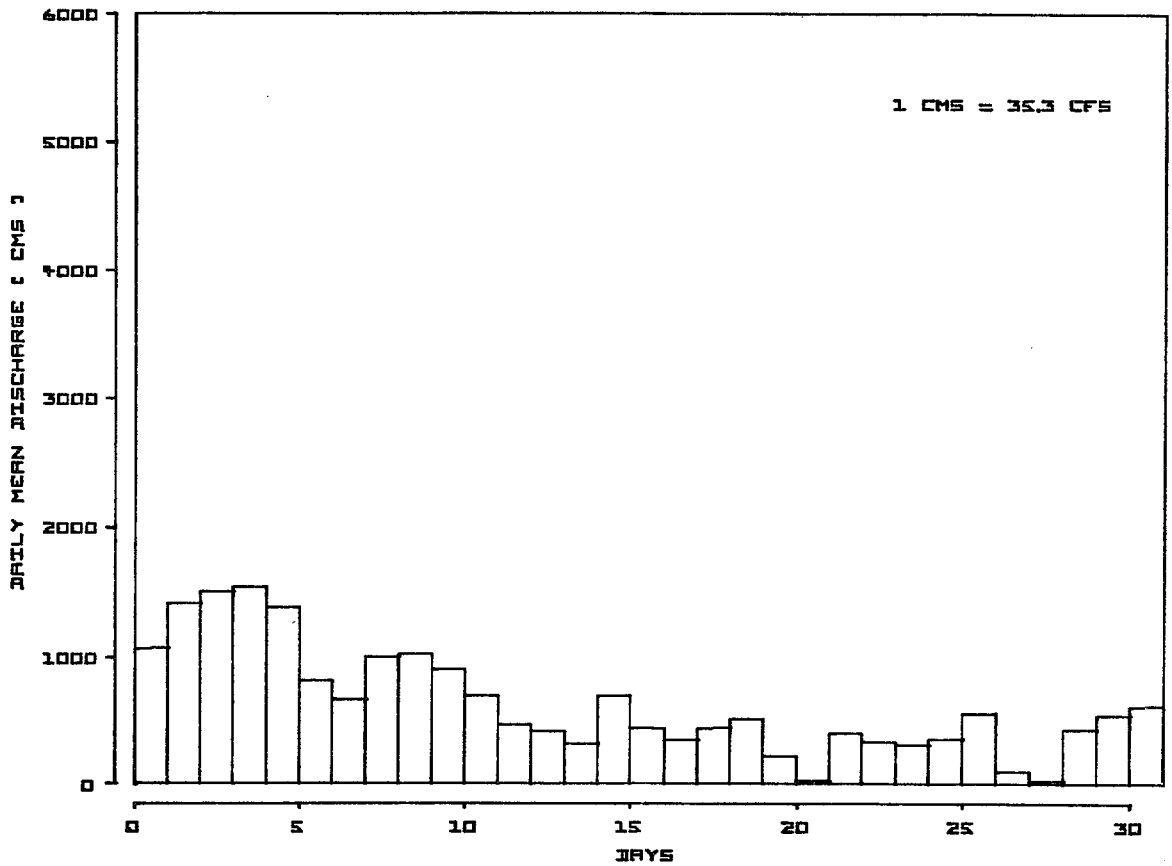
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
MAY 1974
[MONTHLY AVERAGE IS 1192 CMS]



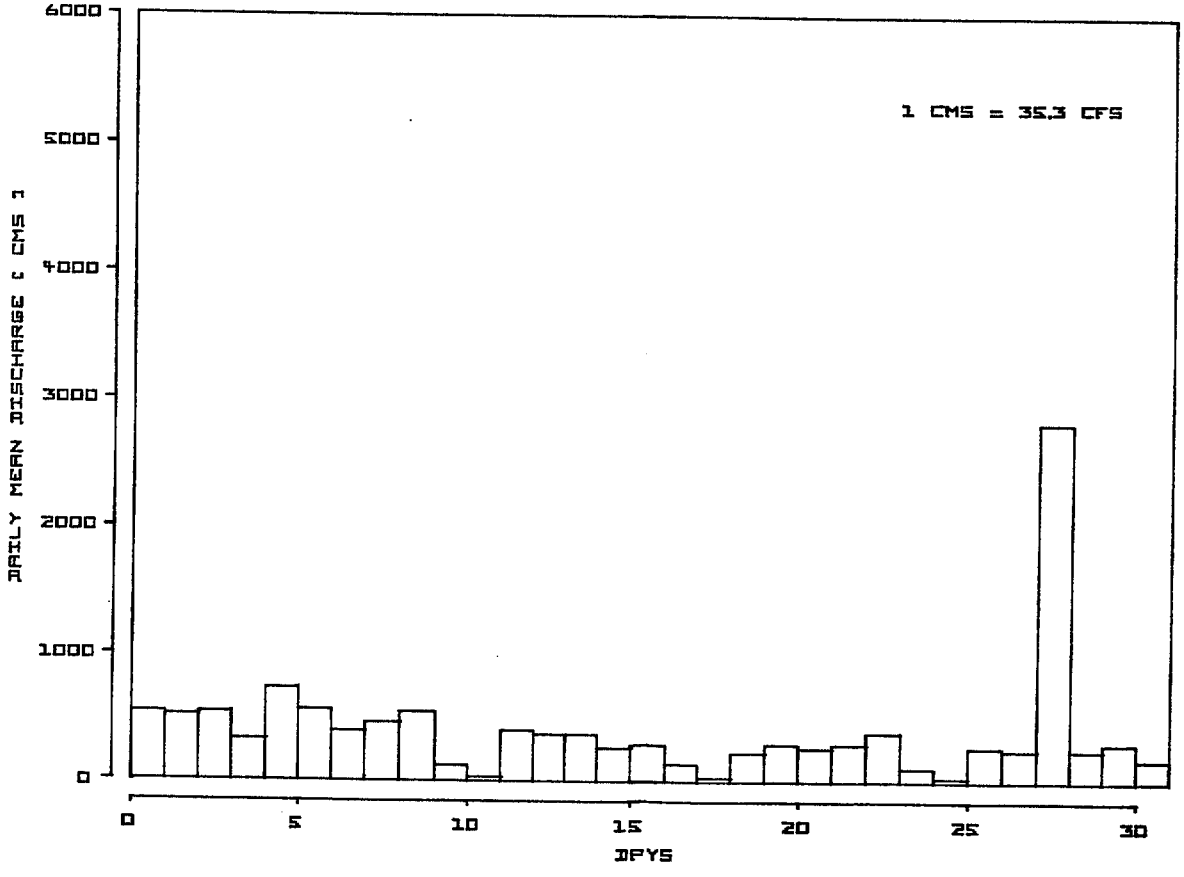
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
JUNE 1974
(MONTHLY AVERAGE IS 551 CMS)



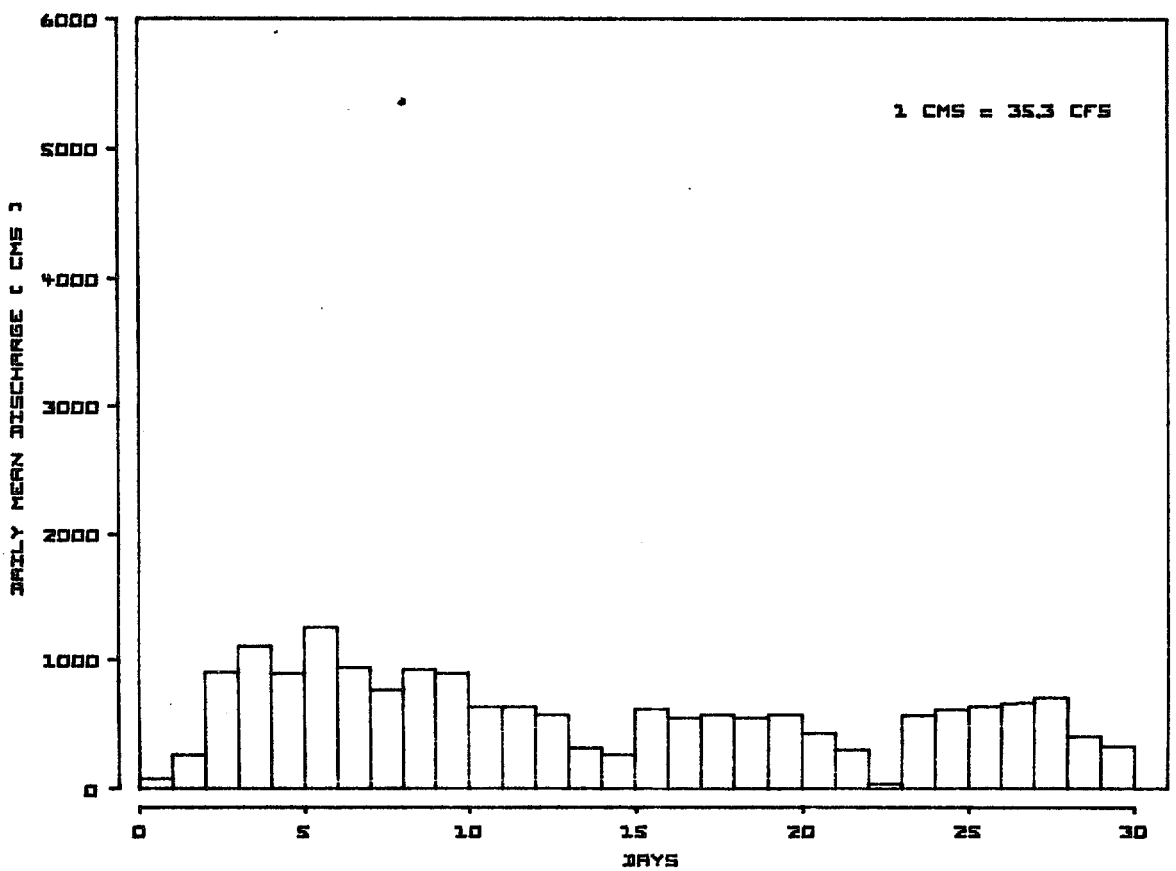
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
JULY 1974
[MONTHLY AVERAGE IS 635 CMS]



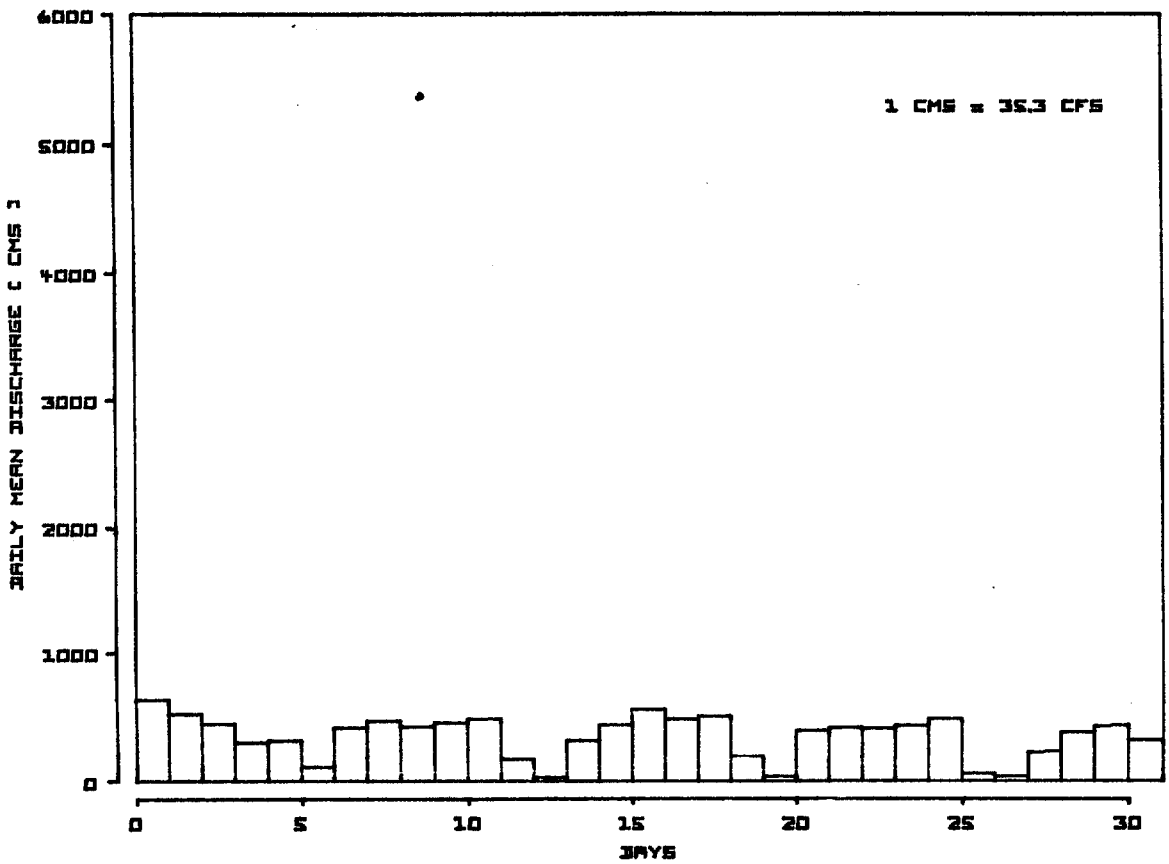
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
AUGUST 1974
[MONTHLY AVERAGE IS 402 CMS]



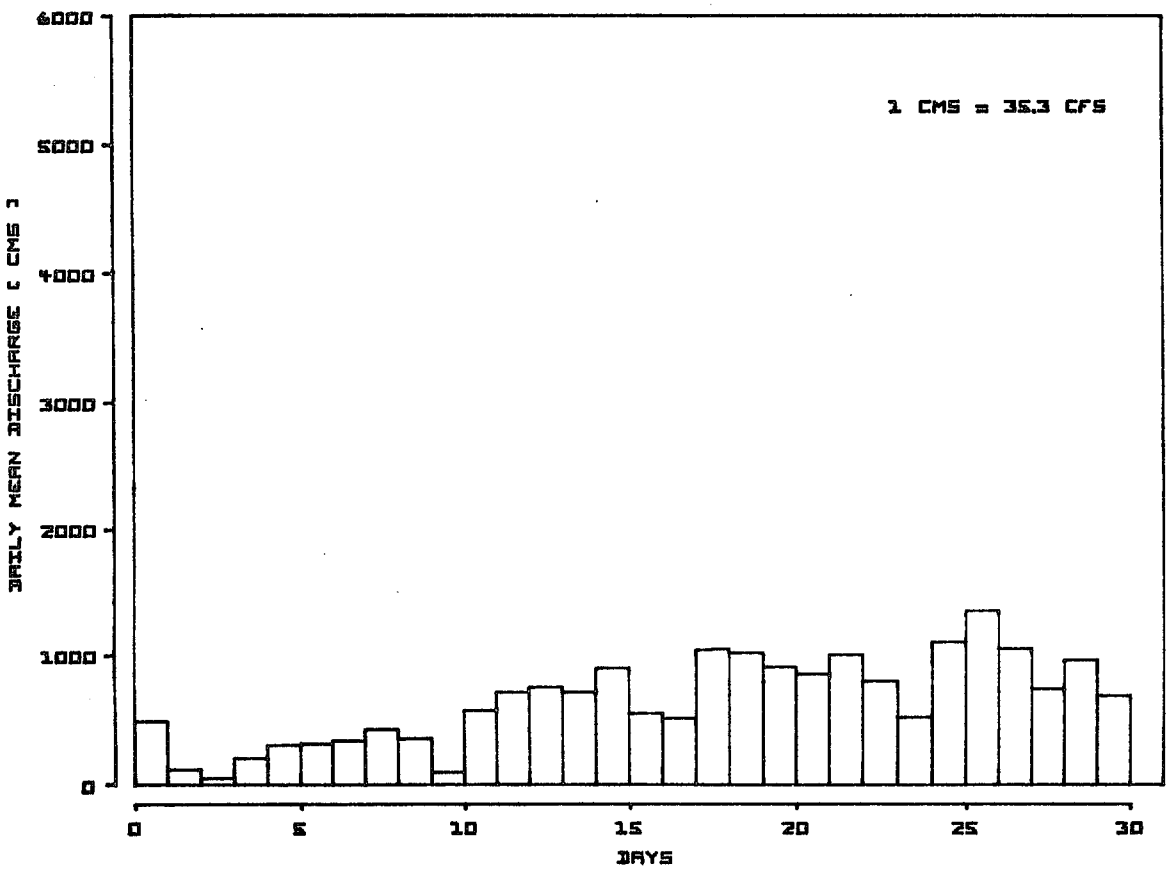
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
SEPTEMBER 1974
(MONTHLY AVERAGE IS 602 CMS)



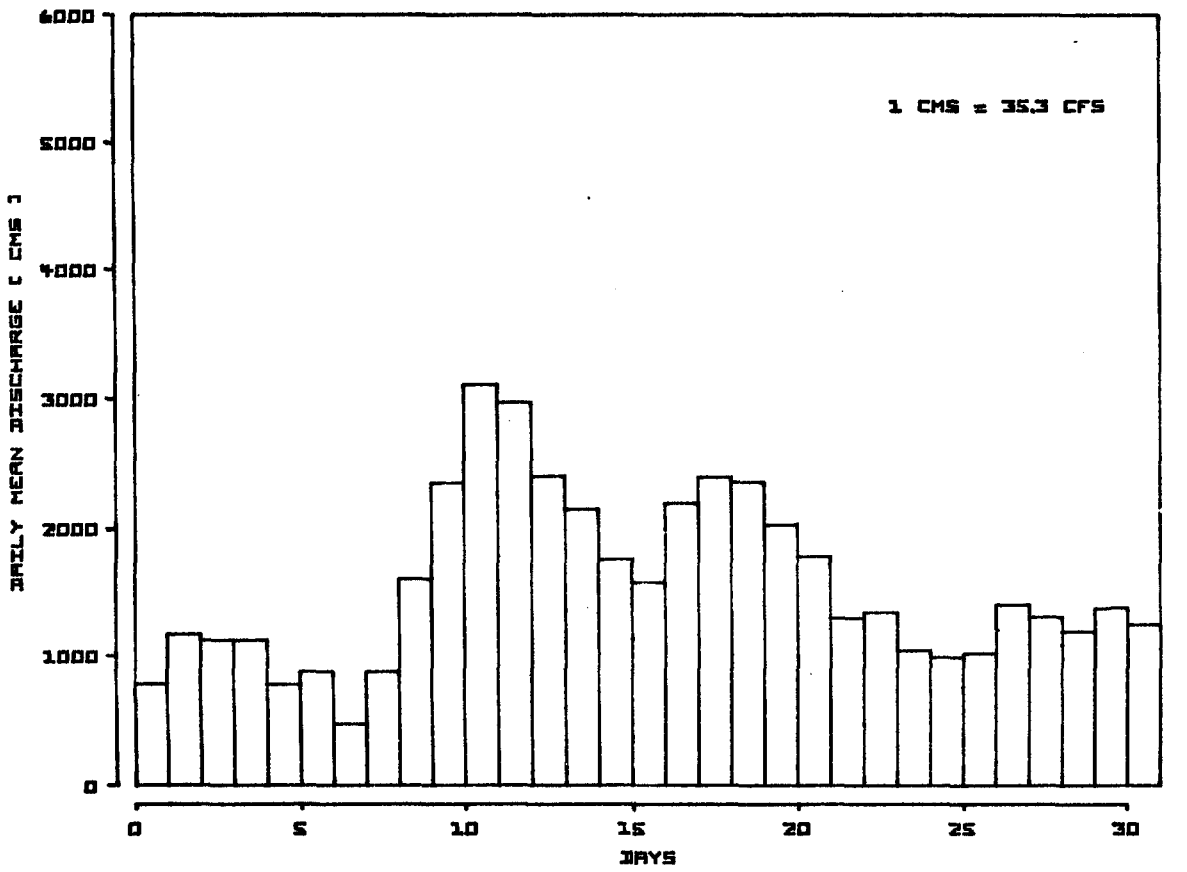
SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
OCTOBER 1974
[MONTHLY AVERAGE IS 355 CMS]



SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
NOVEMBER 1974
[MONTHLY AVERAGE IS 652 CMS]



SUSQUEHANNA RIVER AT CONOWINGO, MARYLAND
DAILY MEAN DISCHARGE
DECEMBER 1974
(MONTHLY AVERAGE IS 1556 CMS)



3.2 Patapsco River, December 1973 through December 1974

PATAPSCO RIVER AT HOLLOFIELD, MD.
DRAINAGE AREA 285.000 SQ MI

DISCHARGE, IN CUBIC FEET PER SECOND,

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN
1	71	157	136	108	287	124	179
2	65	137	136	108	235	121	550
3	65	132	151	111	204	149	419
4	65	204	134	108	292	136	263
5	140	150	120	105	291	120	199
6	162	137	120	103	243	125	160
7	95	130	134	107	199	118	132
8	84	121	139	108	226	118	122
9	388	130	130	110	467	149	116
10	183	170	128	115	258	169	106
11	117	379	452	105	215	127	101
12	98	310	117	108	202	269	97
13	96	182	130	102	293	377	90
14	116	160	146	98	268	174	88
15	96	150	125	97	213	145	86
16	90	154	116	103	190	131	121
17	93	156	121	113	178	122	120
18	102	138	119	98	170	144	95
19	104	133	117	98	166	147	87
20	143	132	127	98	163	133	84
21	1,190	558	113	187	155	116	84
22	275	296	123	177	156	106	93
23	165	204	123	122	183	198	147
24	142	178	108	112	165	209	131
25	123	187	114	104	162	238	96
26	825	168	106	102	147	175	100
27	750	176	104	101	139	153	119
28	241	162	107	99	135	155	105
29	183	168	------	105	134	132	133
30	163	149	------	1,000	131	135	108
31	146	143	------	813	------	137	------

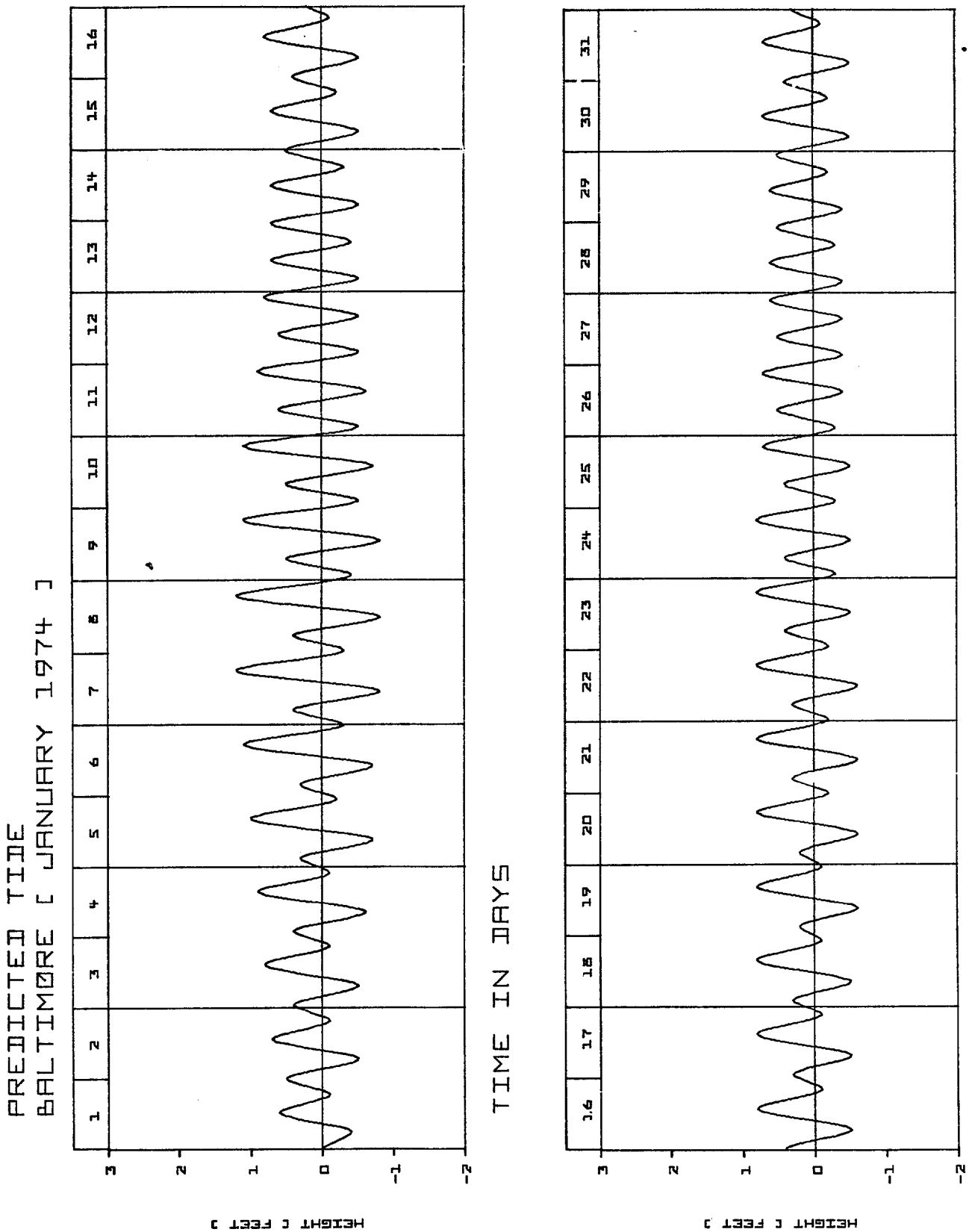
PATAPSCO RIVER AT HOLLOFIELD, MD.
DRAINAGE AREA 285.000 SQ MI

DISCHARGE, IN CUBIC FEET PER SECOND,

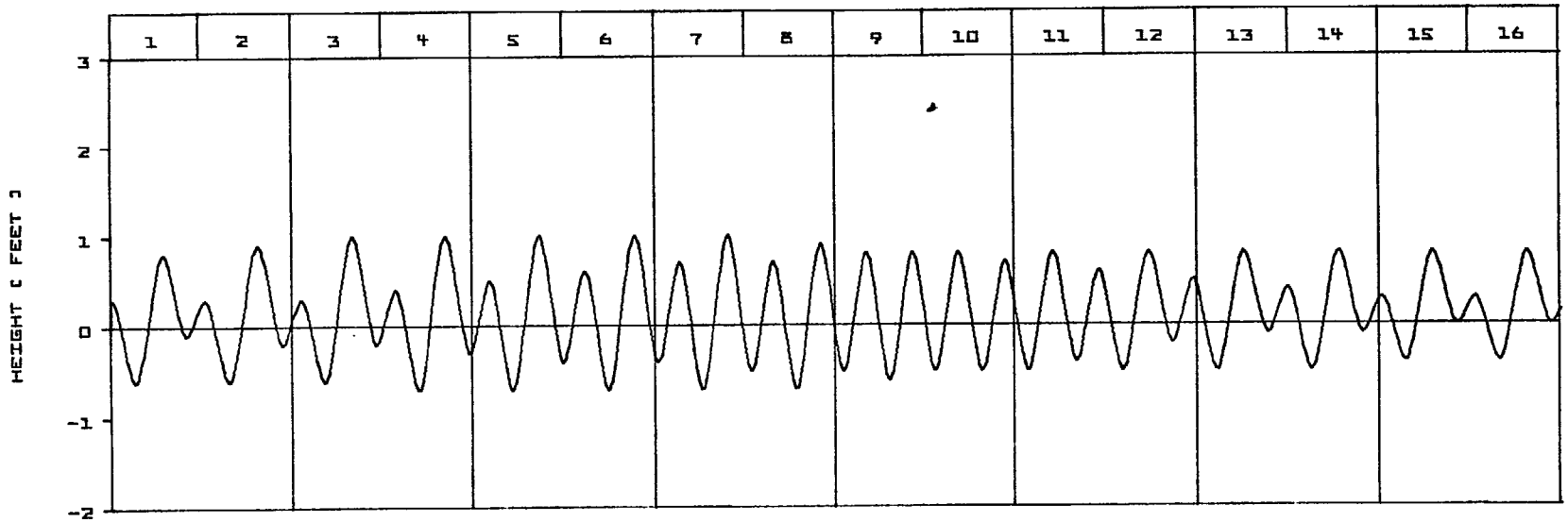
DAY	JUL	AUG	SEP	OCT	NOV	DEC
1	92	50	49	68	50	173
2	85	50	311	62	50	1,320
3	78	50	208	58	50	206
4	73	50	185	56	50	134
5	86	55	83	58	56	109
6	90	50	76	58	71	99
7	77	52	245	58	52	92
8	71	49	115	56	50	544
9	65	50	85	55	48	215
10	63	56	75	55	49	138
11	64	48	71	55	49	116
12	57	43	71	54	69	109
13	56	45	111	56	99	104
14	55	46	329	57	64	105
15	54	44	123	57	81	98
16	54	40	84	127	71	903
17	54	43	73	105	61	292
18	53	46	67	73	57	177
19	52	88	63	63	56	147
20	49	132	60	59	59	134
21	46	56	68	57	66	123
22	45	72	94	56	57	121
23	45	128	64	55	53	110
24	65	51	57	55	53	107
25	60	43	56	55	55	103
26	55	42	57	54	65	97
27	55	78	54	52	55	95
28	75	48	210	52	54	95
29	60	74	164	51	53	92
30	85	49	81	52	51	92
31	55	45	------	51	------	95

4. TIDE DATA

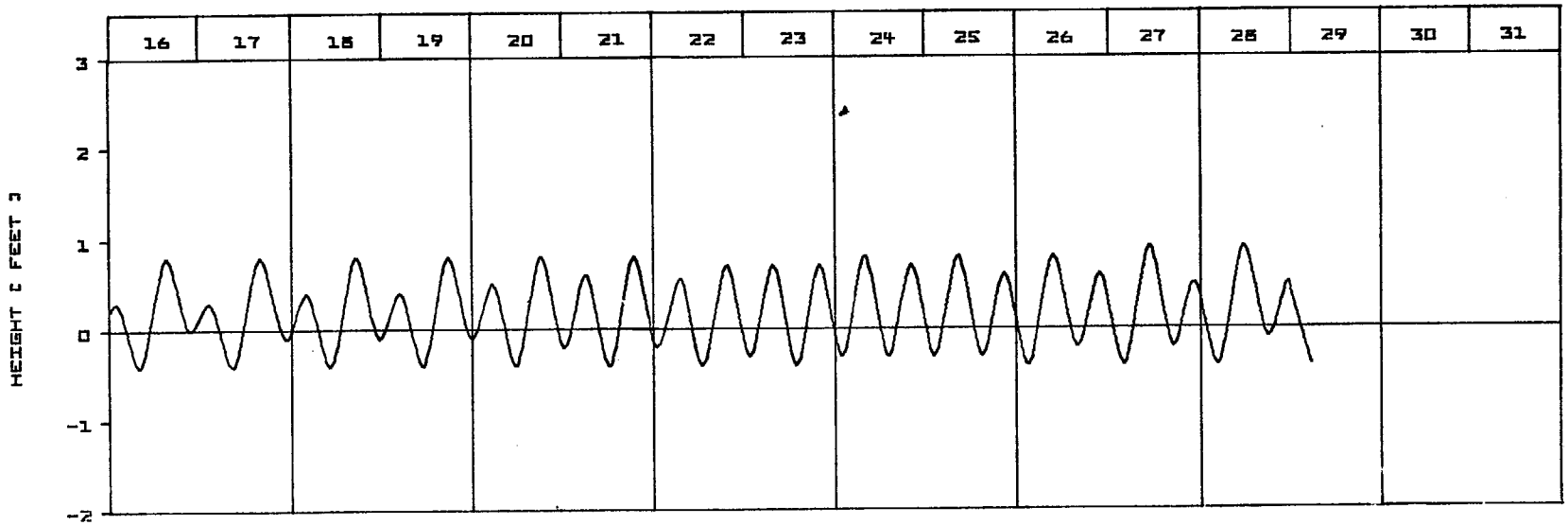
4.1 Predicted Tides-Baltimore



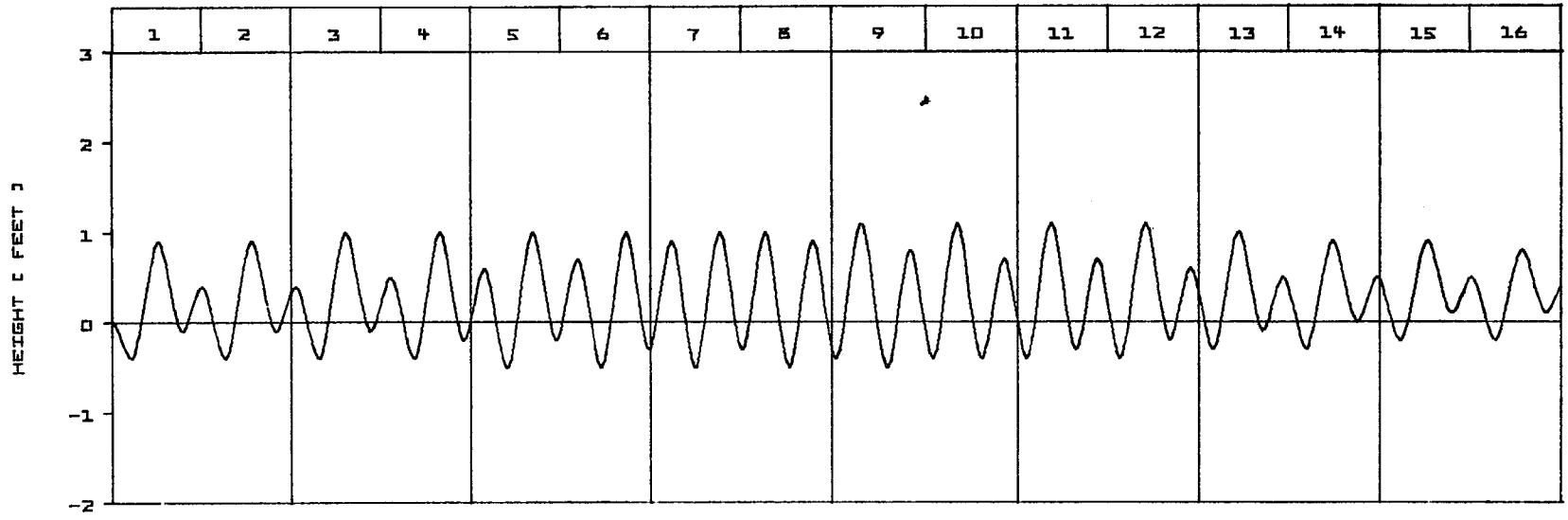
PREDICTED TIDE
BALTIMORE [FEBRUARY 1974]



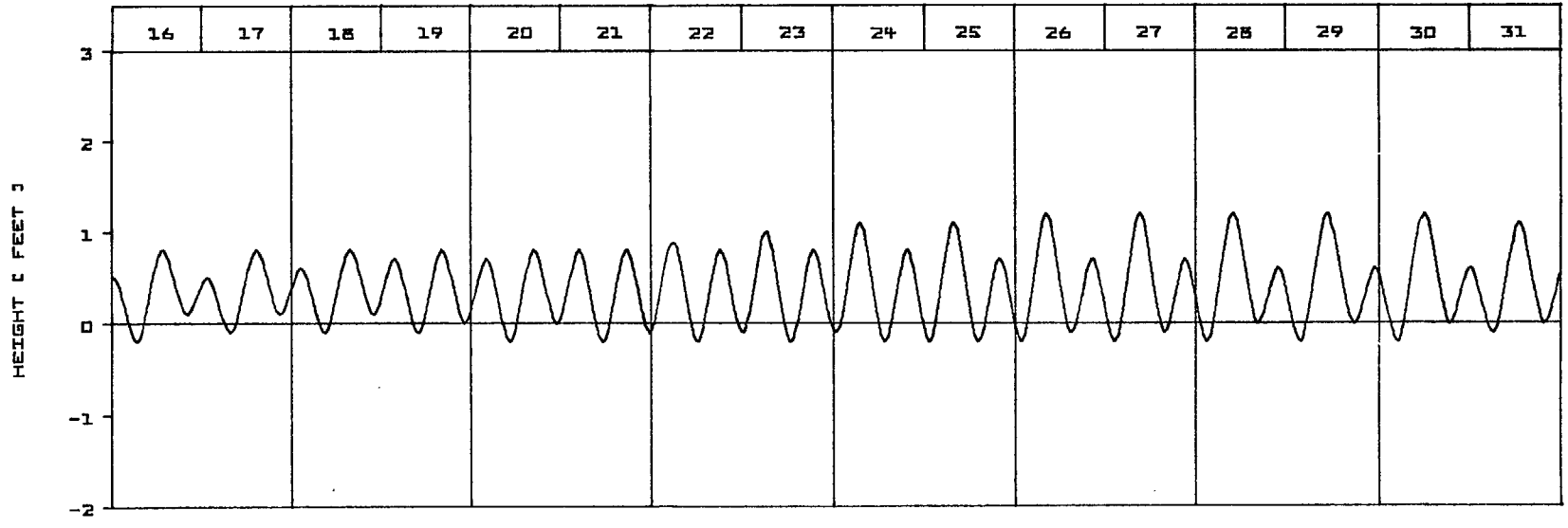
TIME IN DAYS



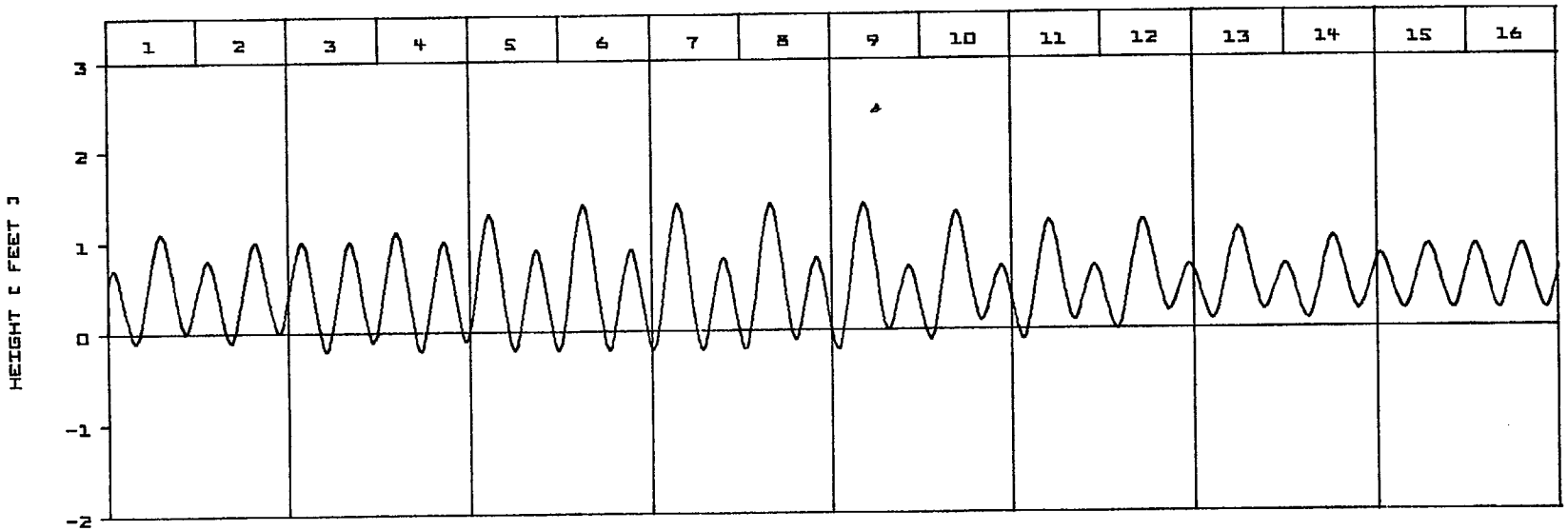
PREDICTED TIDE
BALTIMORE [MARCH 1974]



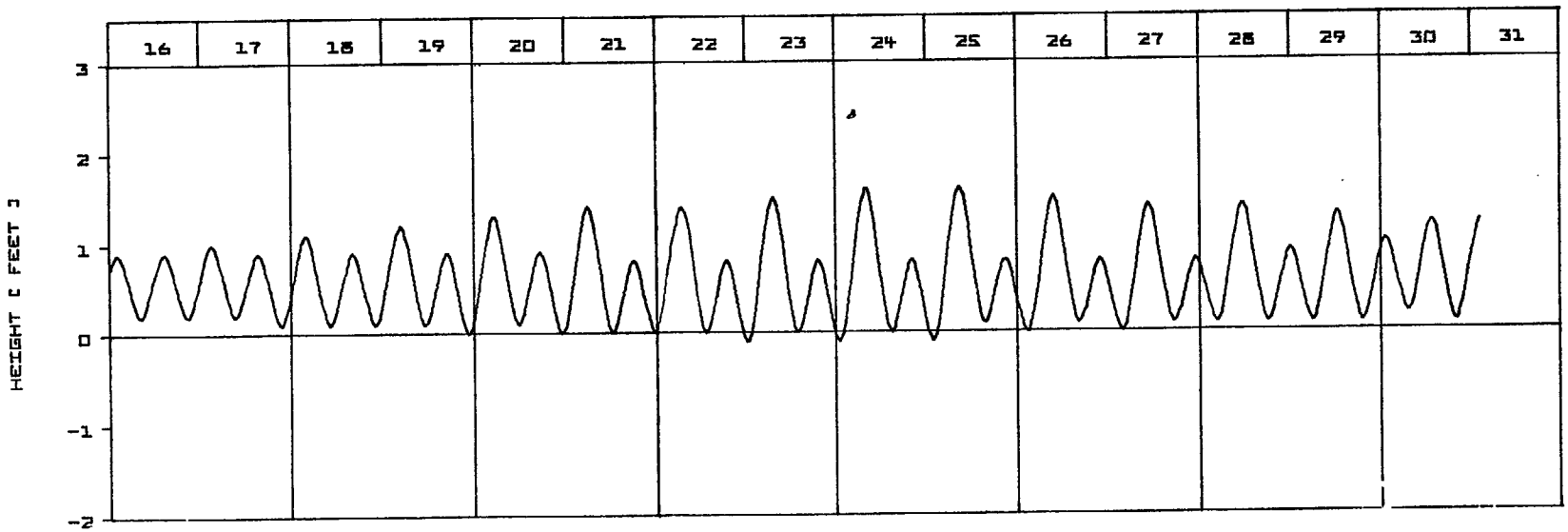
TIME IN DAYS



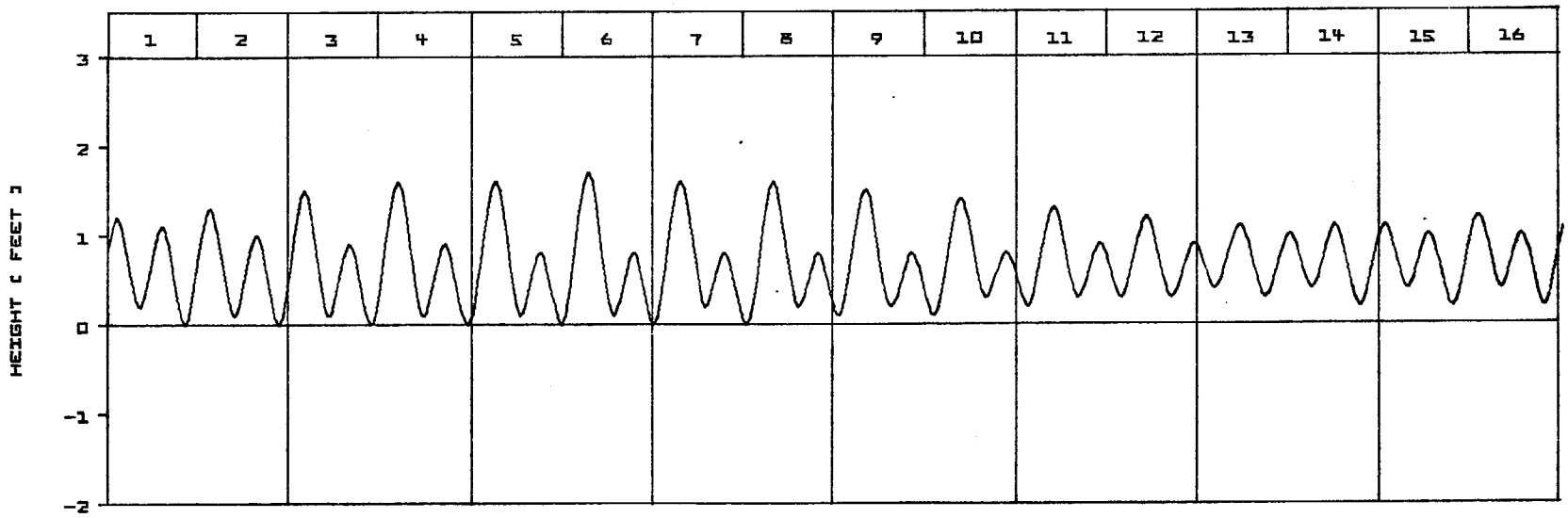
PREDICTED TIDE
BALTIMORE [APRIL 1974]



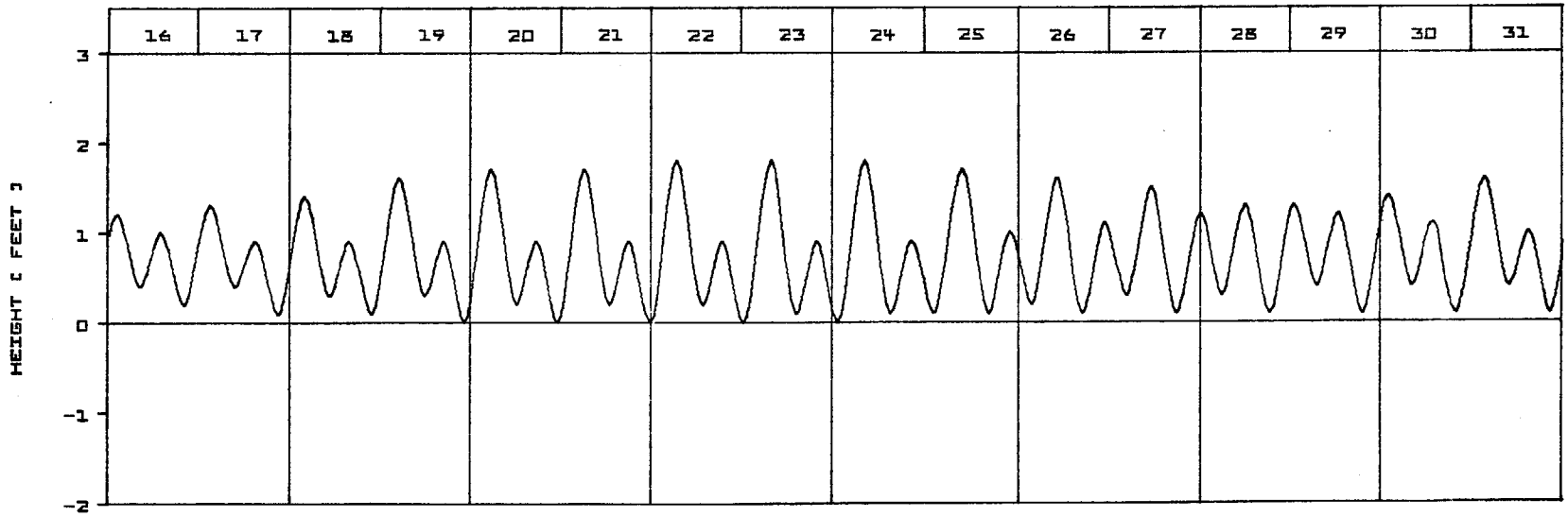
TIME IN DAYS



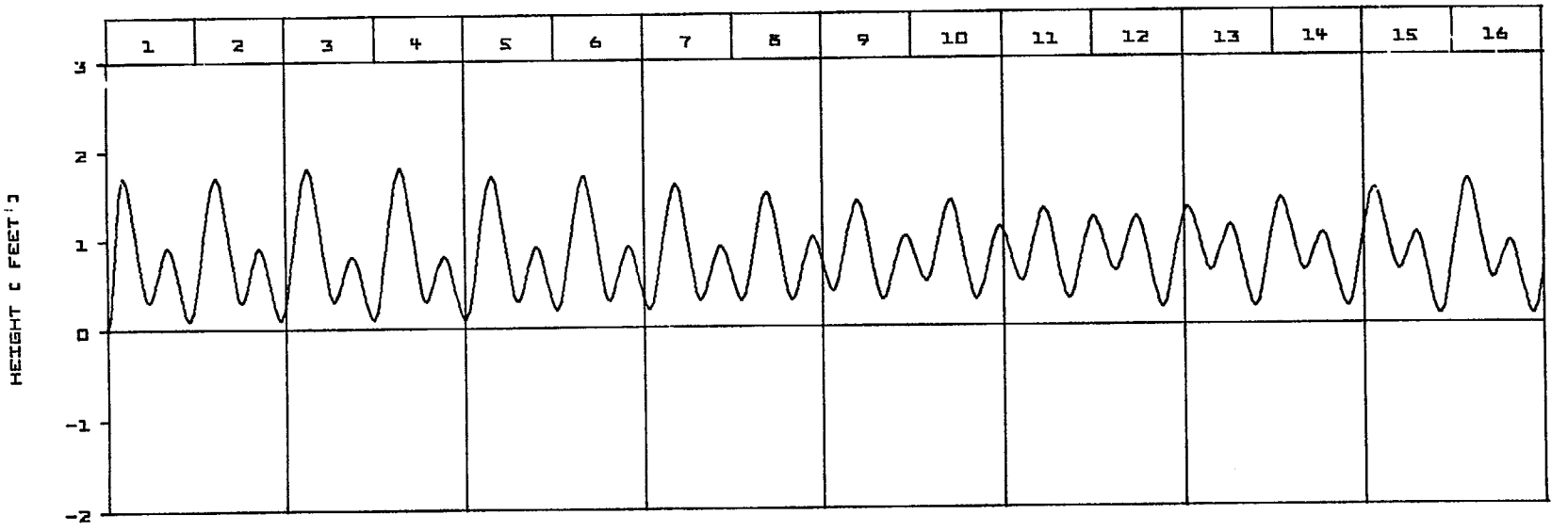
PREDICTED TIDE
BALTIMORE [MAY 1974]



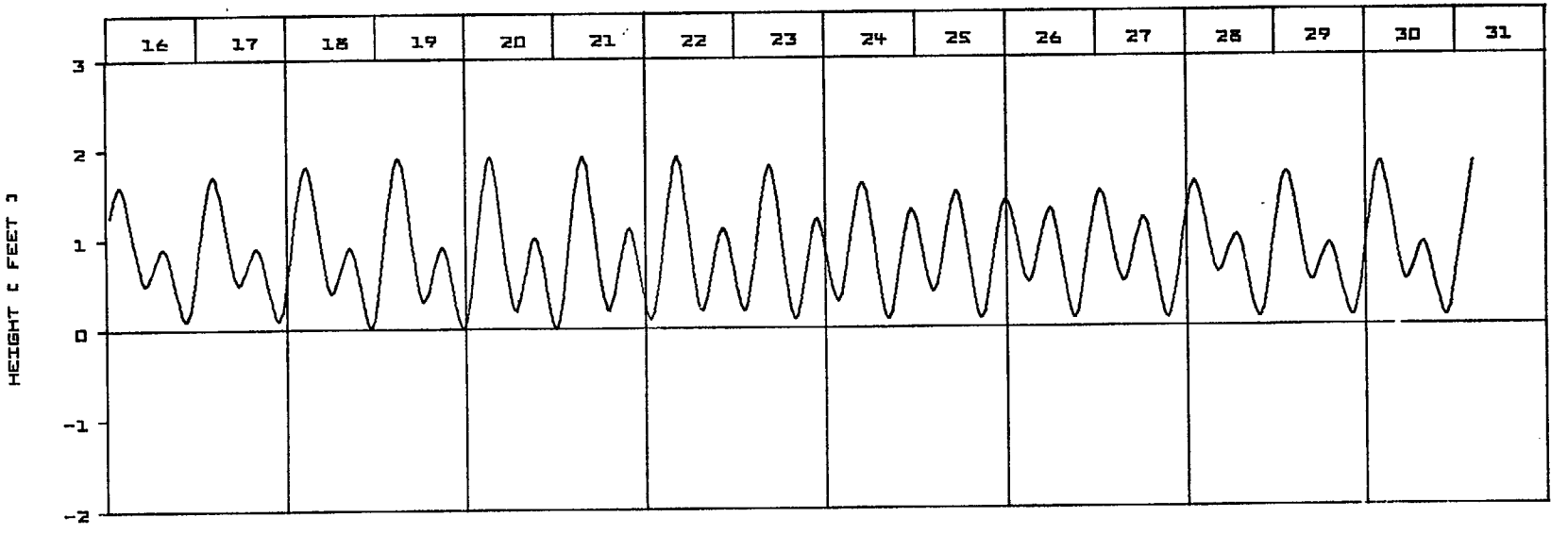
TIME IN DAYS



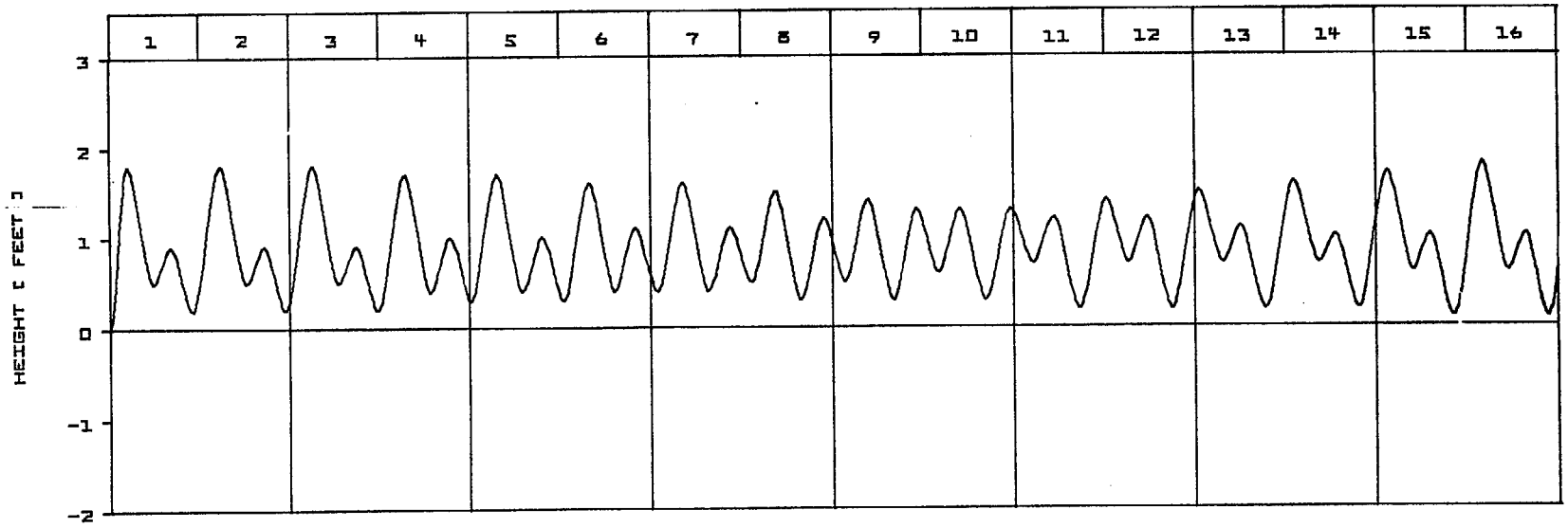
PREDICTED TIDE
BALTIMORE [JUNE 1974]



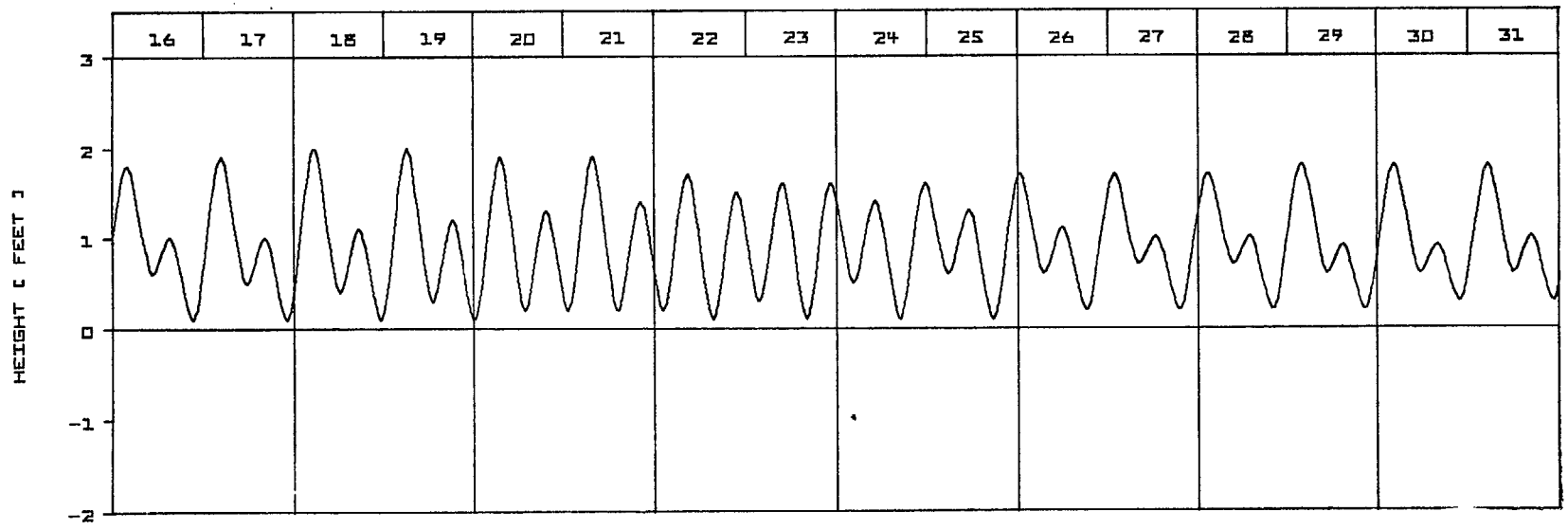
TIME IN DAYS



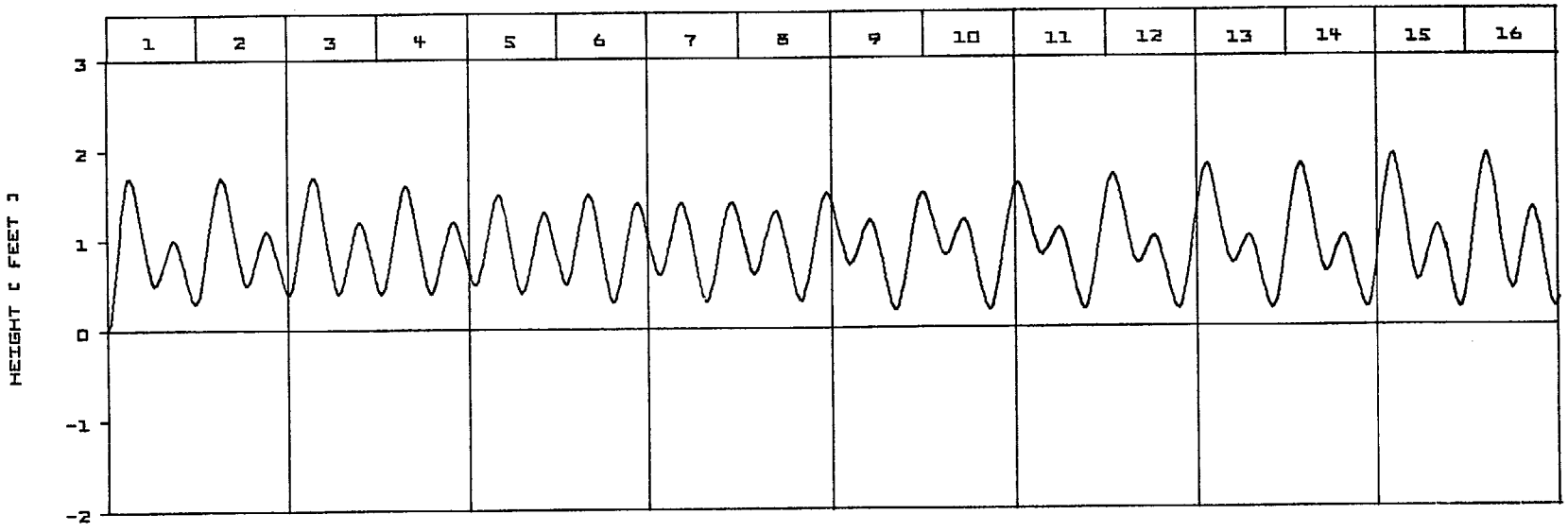
PREDICTED TIDE
BALTIMORE [JULY 1974]



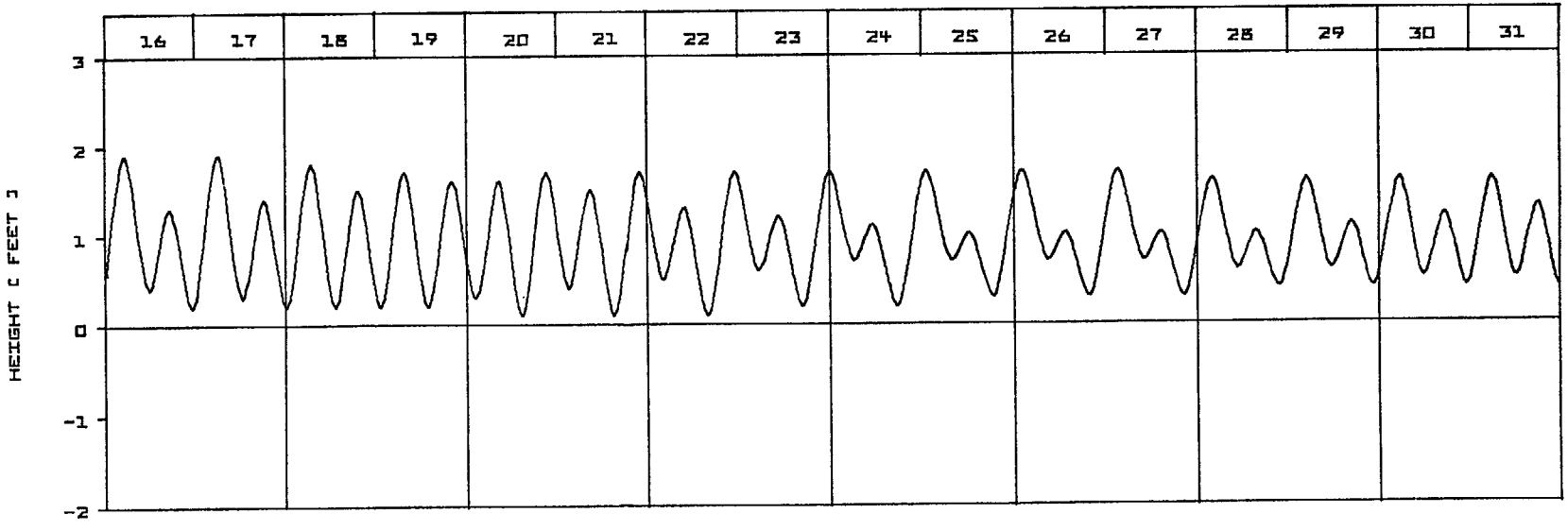
TIME IN DAYS



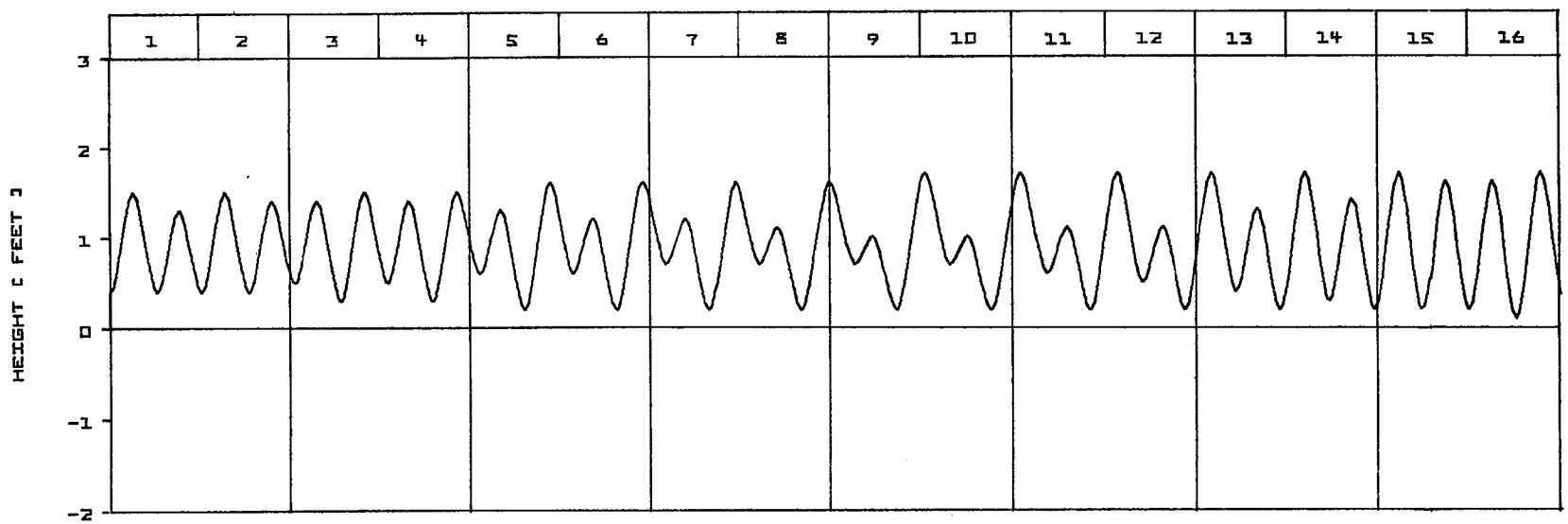
PREDICTED TIDE
BALTIMORE [AUGUST 1974]



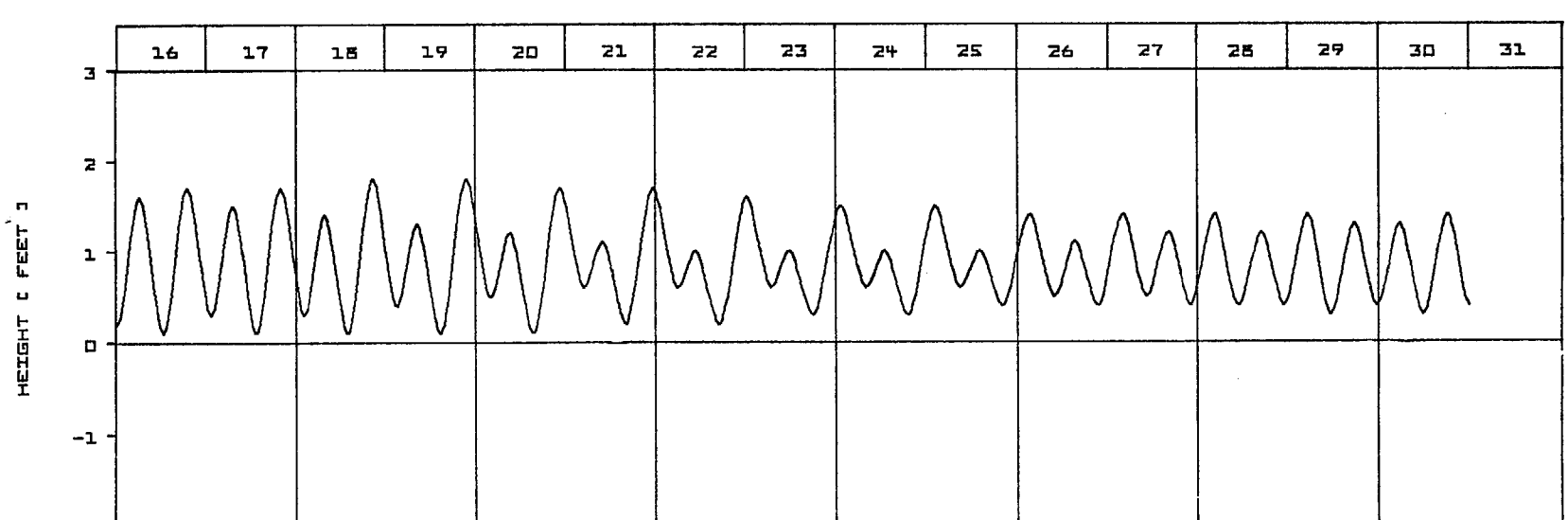
TIME IN DAYS



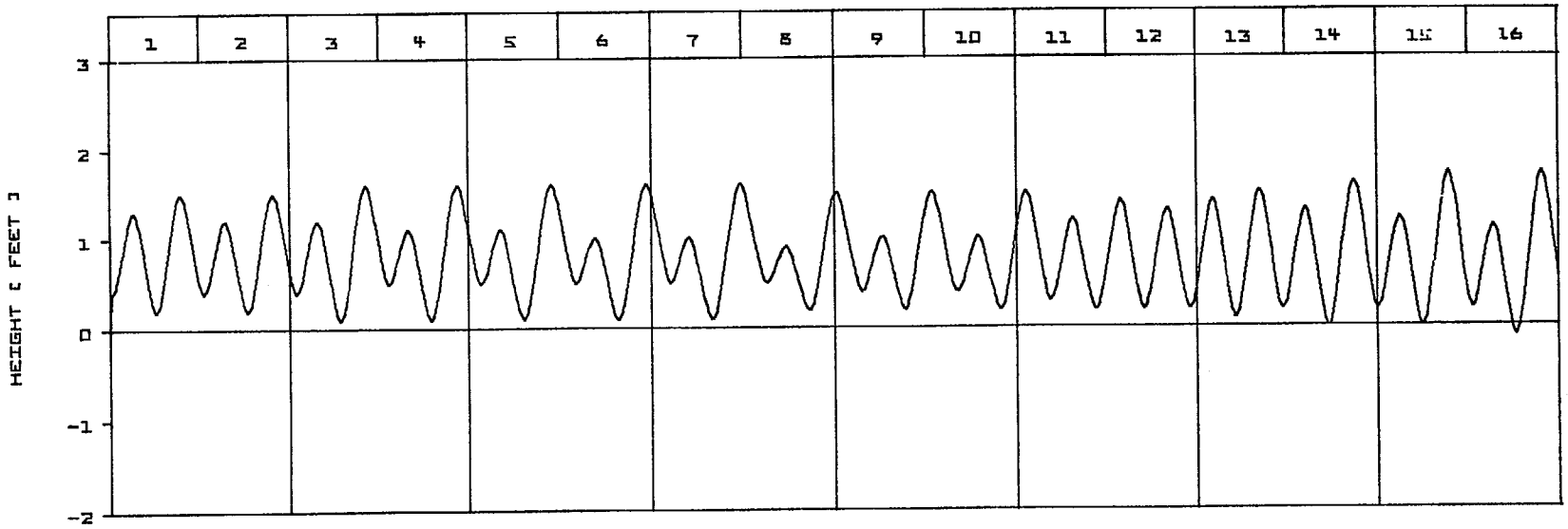
PREDICTED TIDE
BALTIMORE [SEPTEMBER 1974]



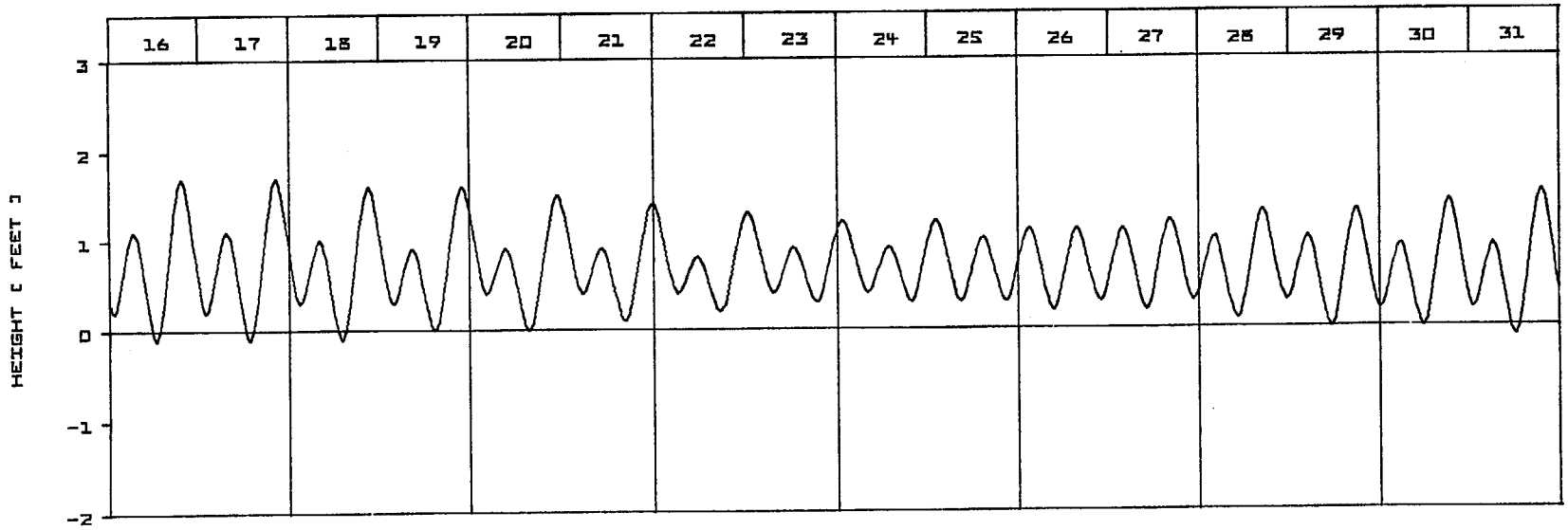
TIME IN DAYS



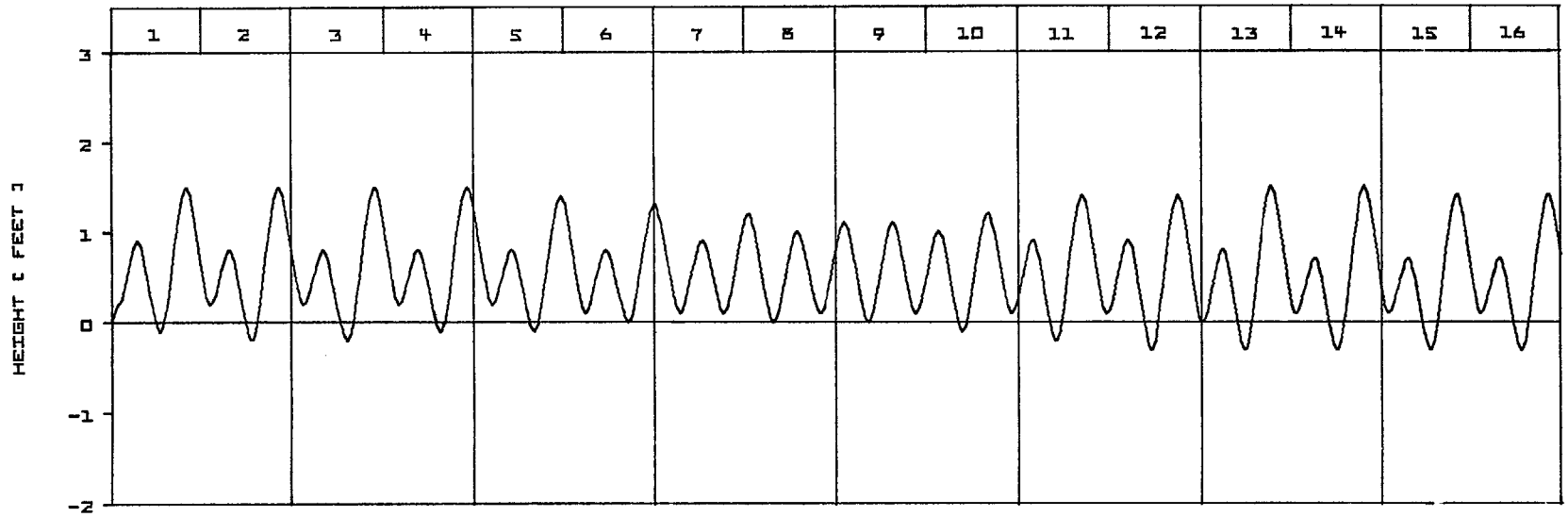
PREDICTED TIDE
BALTIMORE [OCTOBER 1974]



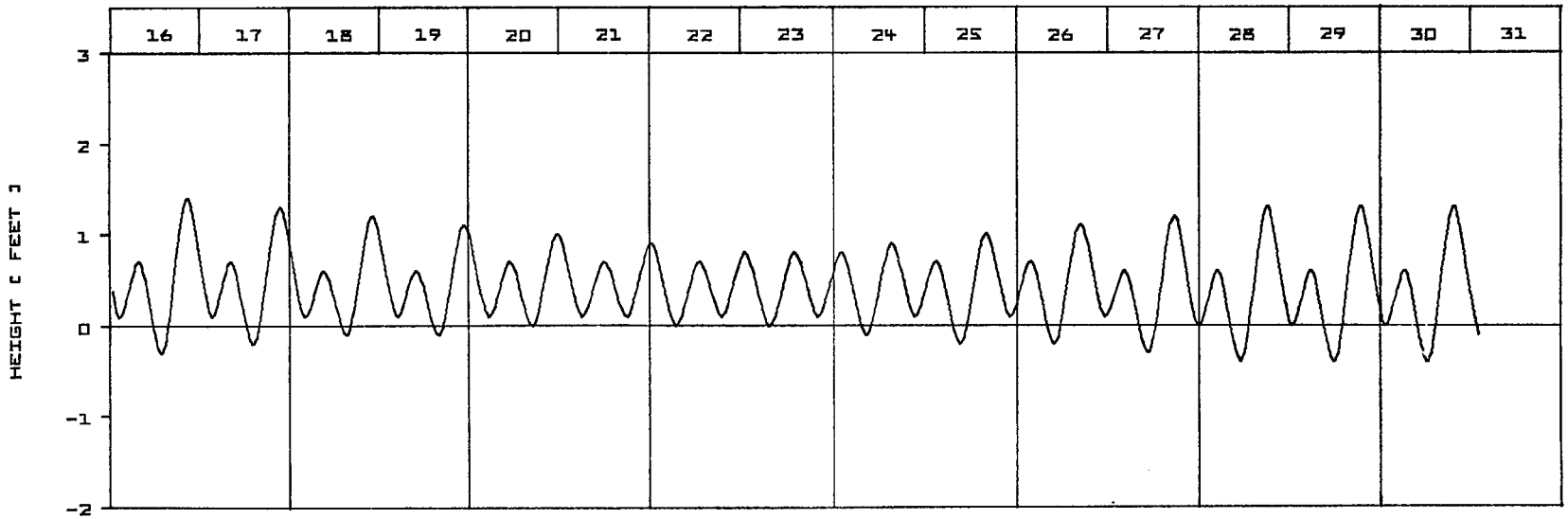
TIME IN DAYS



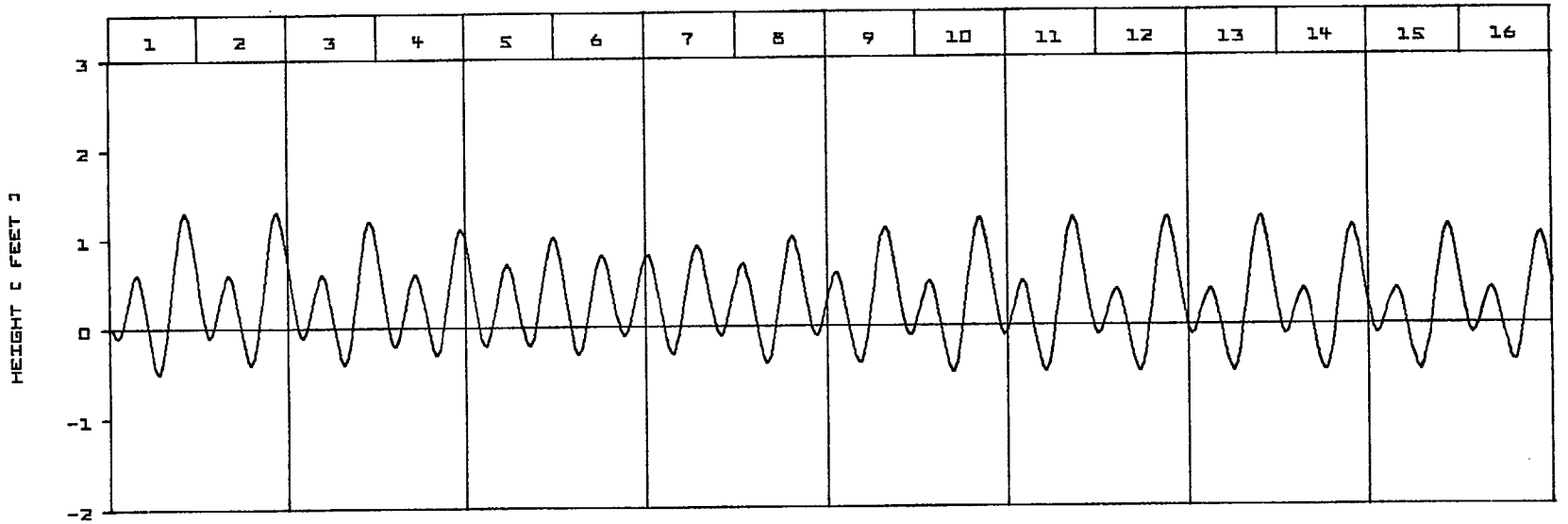
PREDICTED TIDE
BALTIMORE [NOVEMBER 1974]



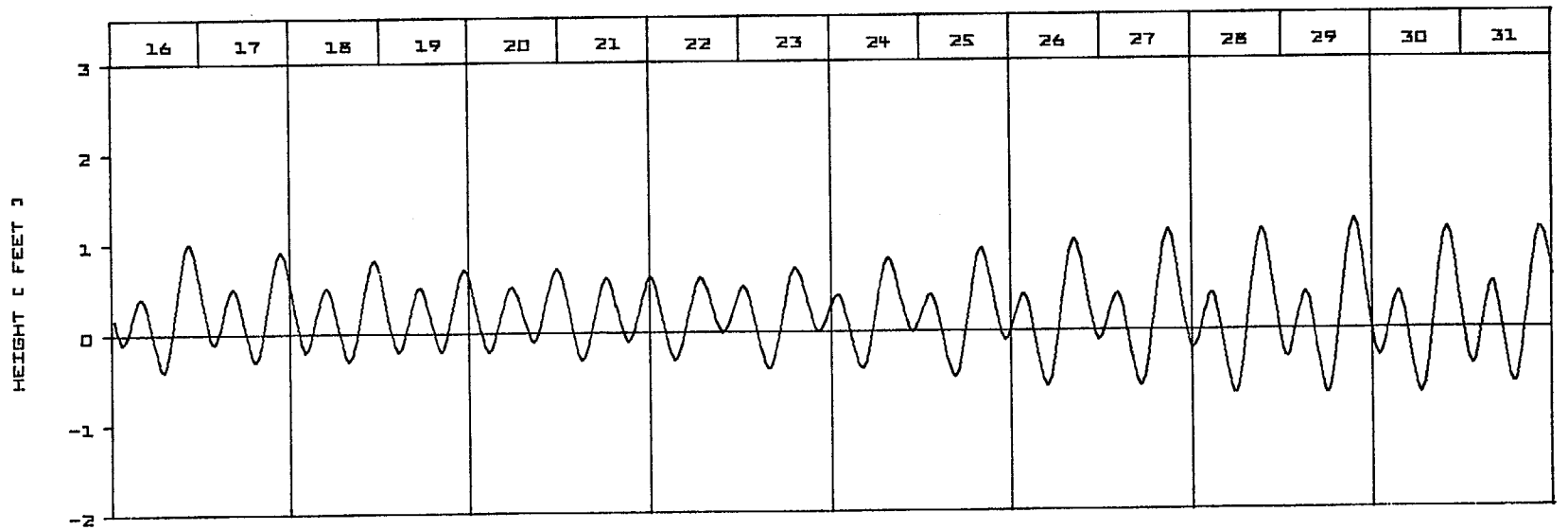
TIME IN DAYS



PREDICTED TIDE
BALTIMORE [DECEMBER 1974]

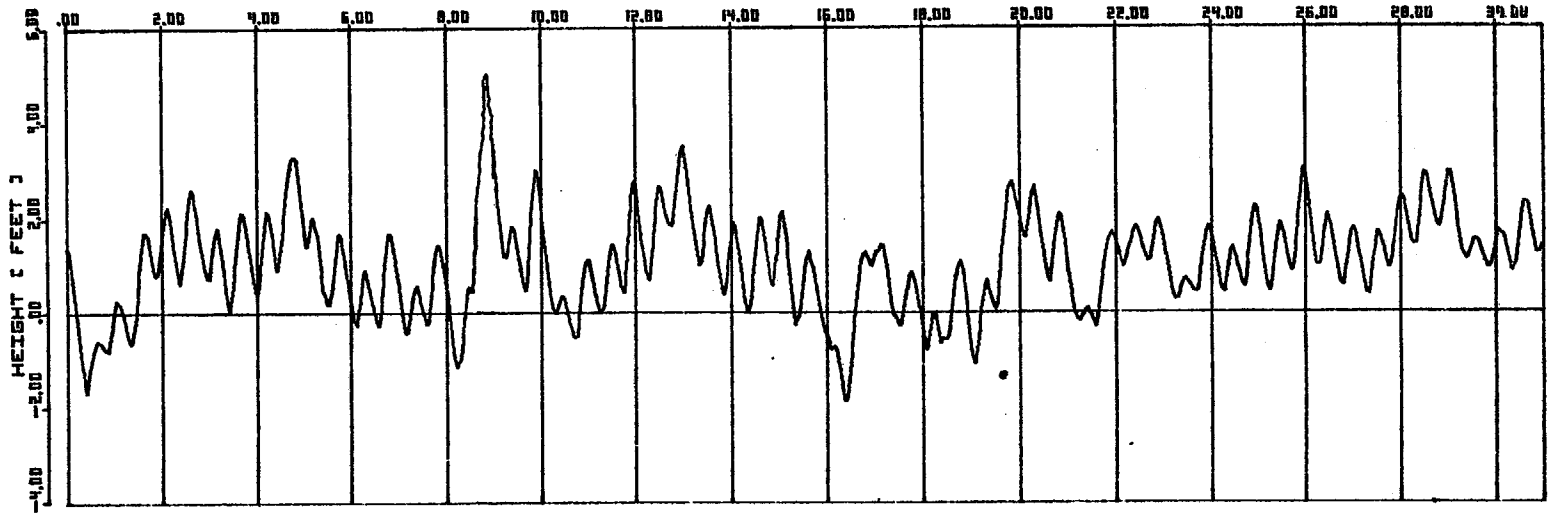


TIME IN DAYS

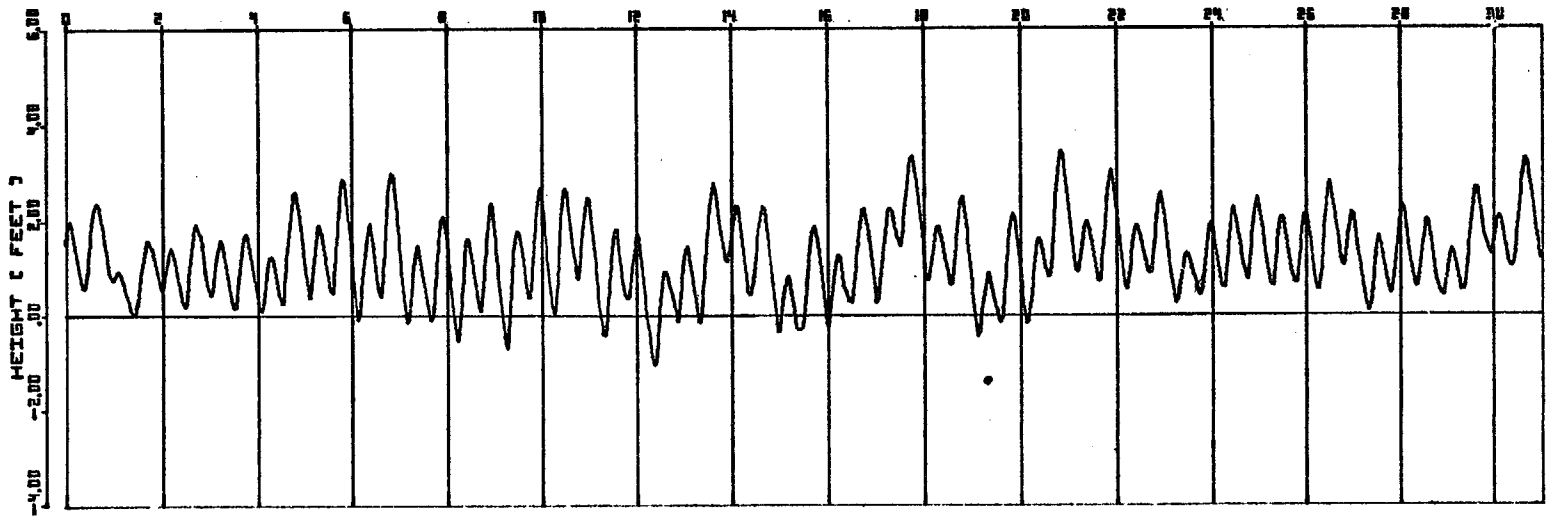


ACTUAL TIDE

HAVRE DE GRACE [DECEMBER 1973]



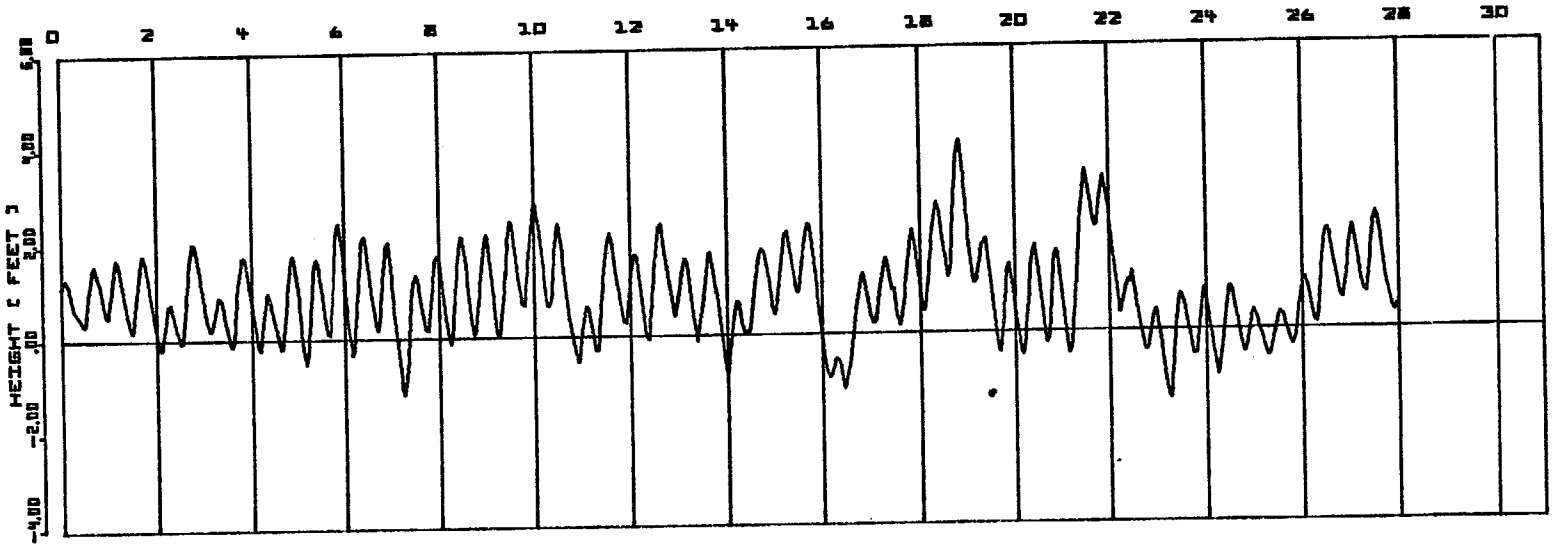
HAVRE DE GRACE [JANUARY 1974]



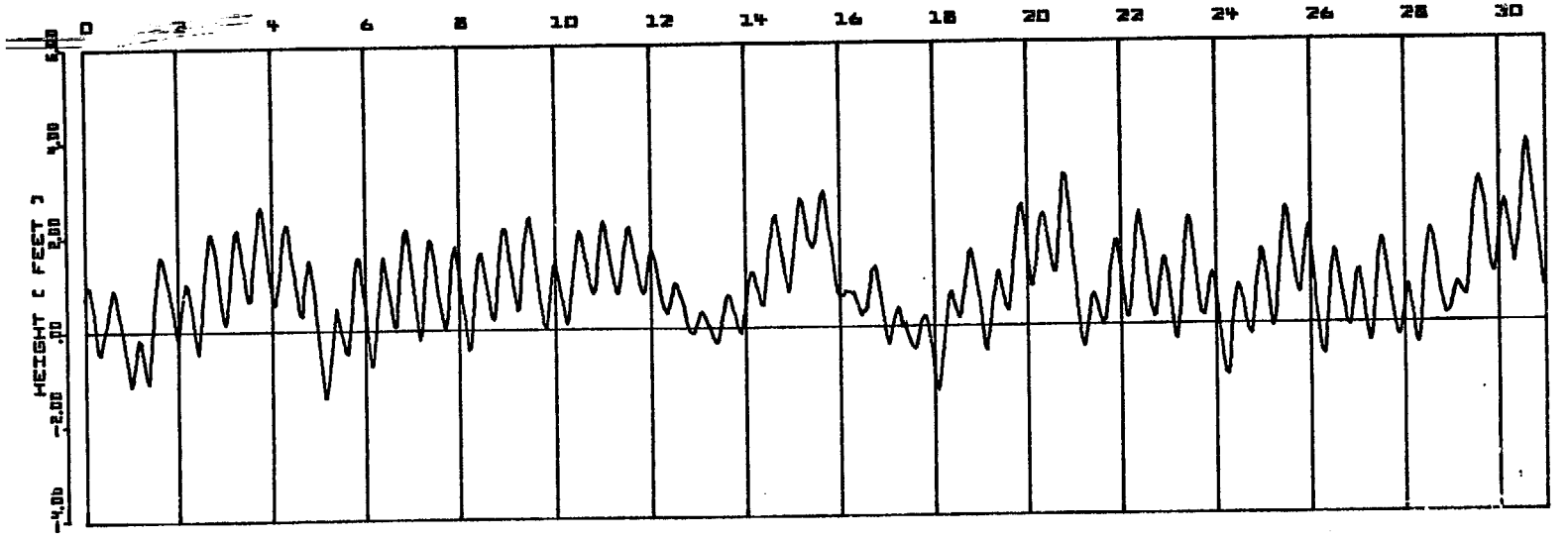
TIME IN DAYS

ACTUAL TIDE

HAVRE DE GRACE [FEBRUARY 1974]



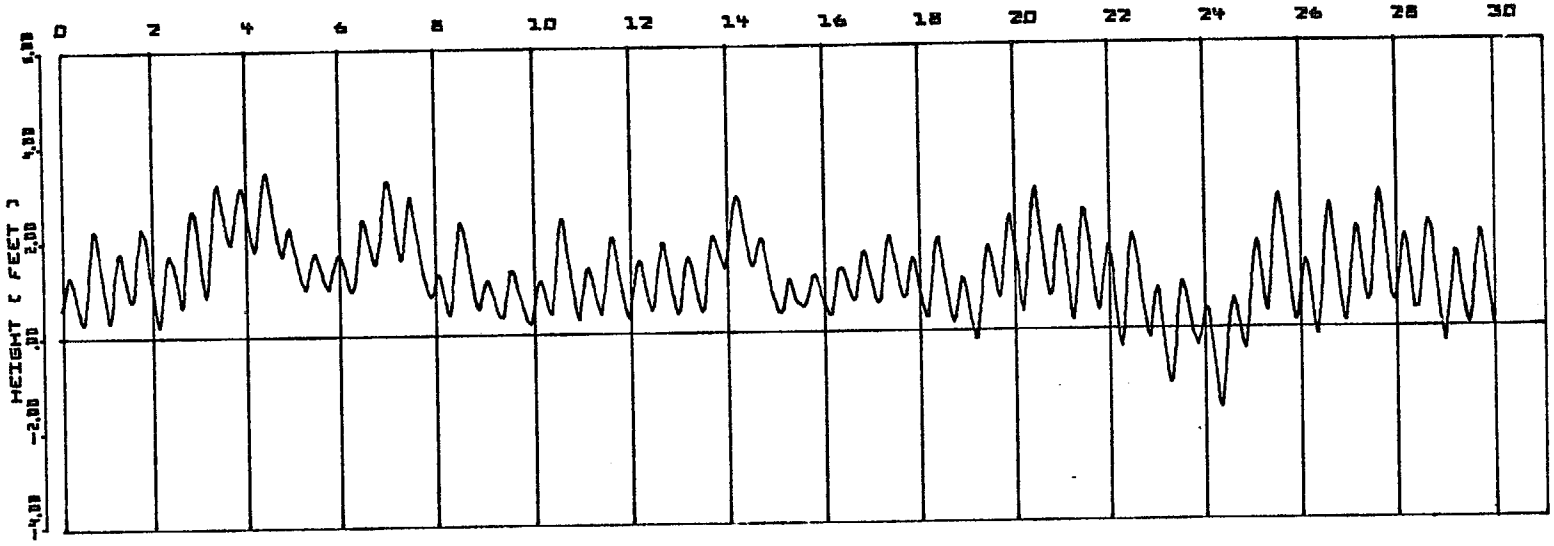
HAVRE DE GRACE [MARCH 1974]



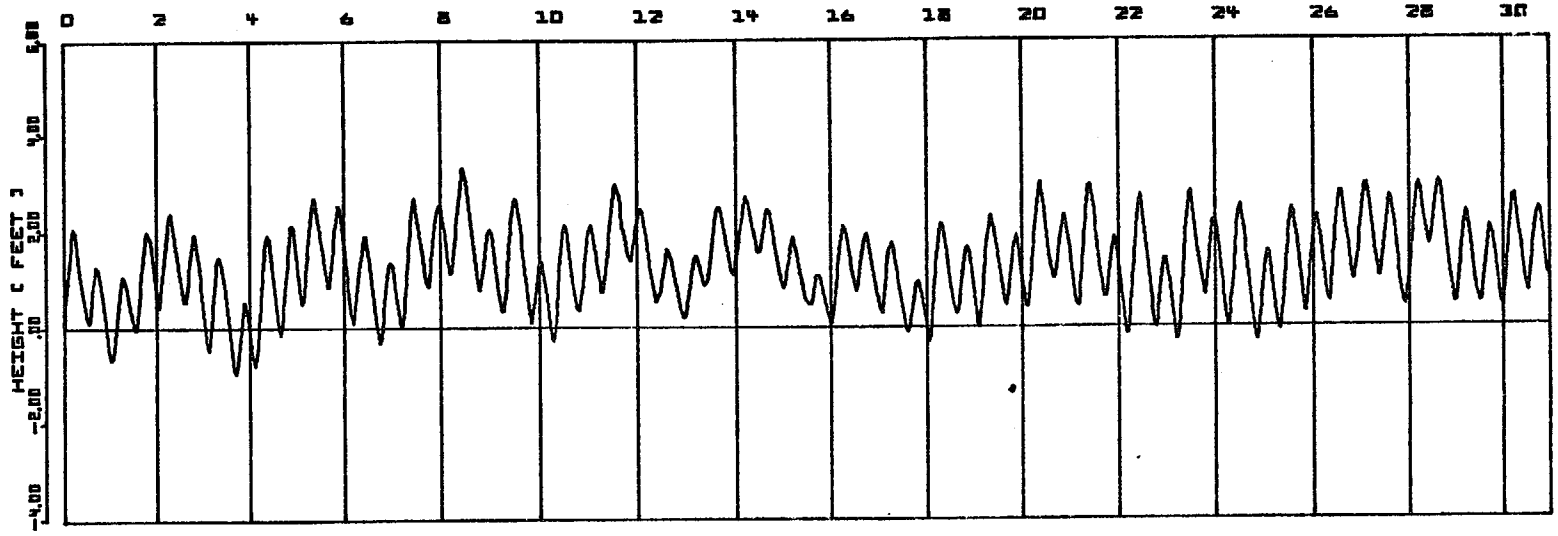
TIME IN DAYS

ACTUAL TIDE

HAVRE DE GRACE [APRIL 1974]



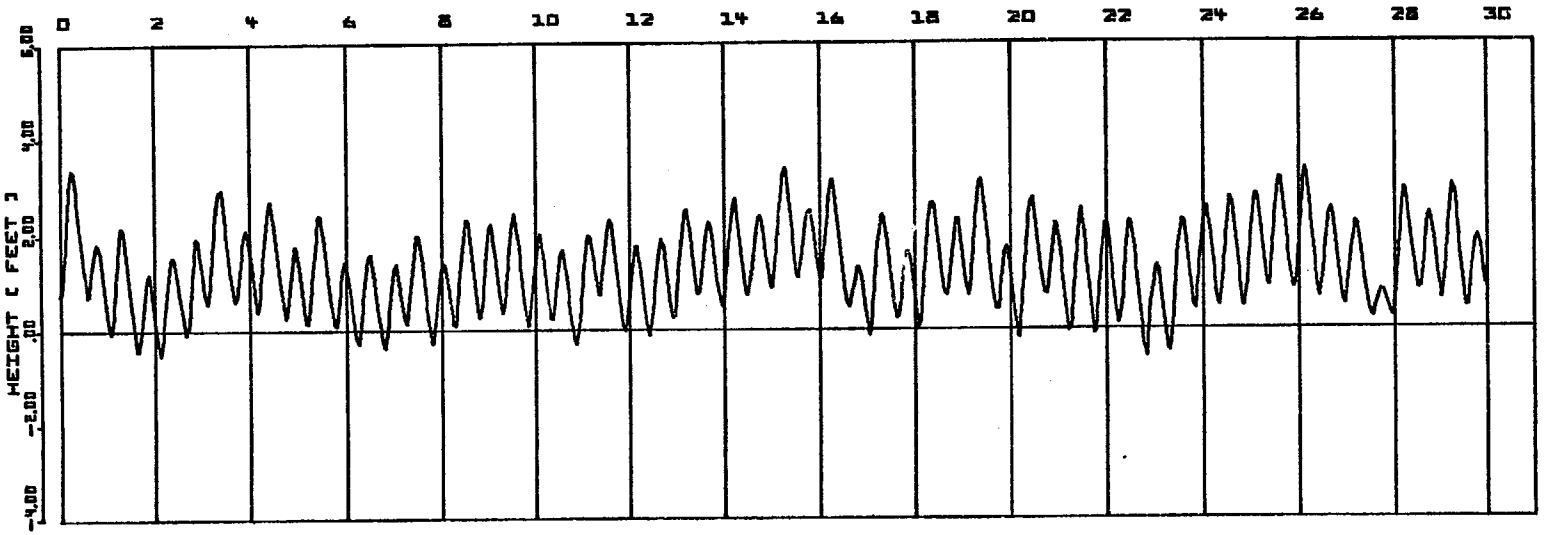
HAVRE DE GRACE [MAY 1974]



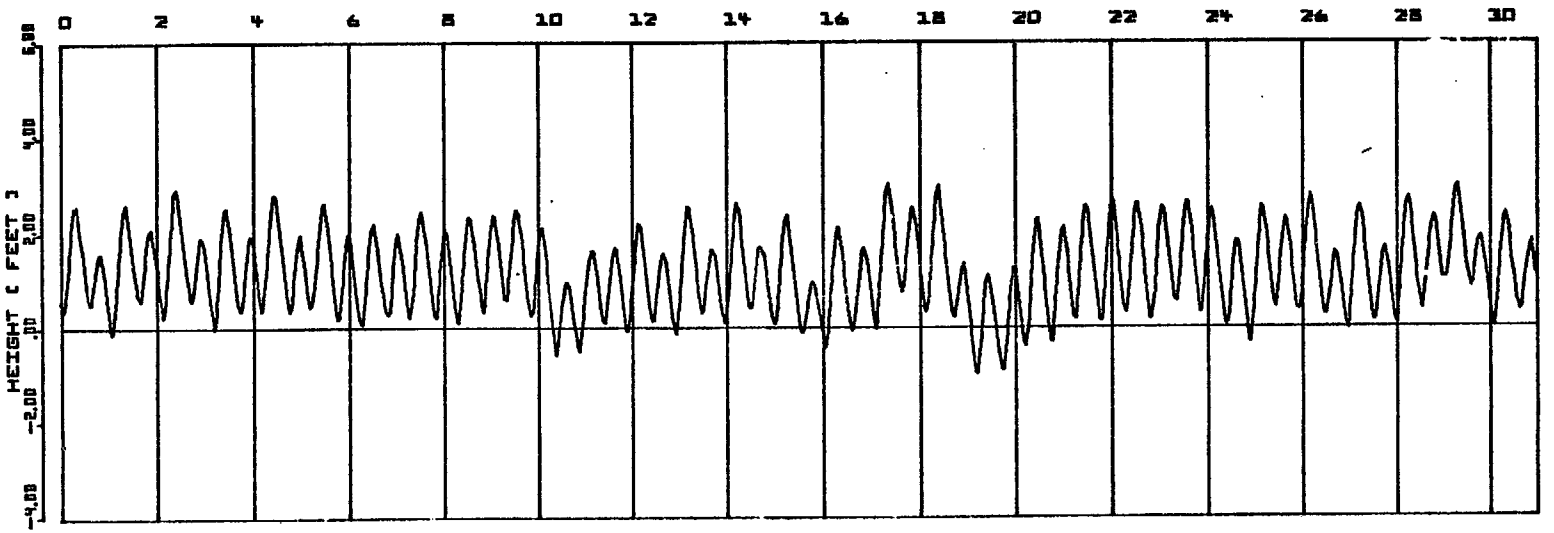
TIME IN DAYS

ACTUAL TIDE

HAVRE DE GRACE [JUNE 1974]



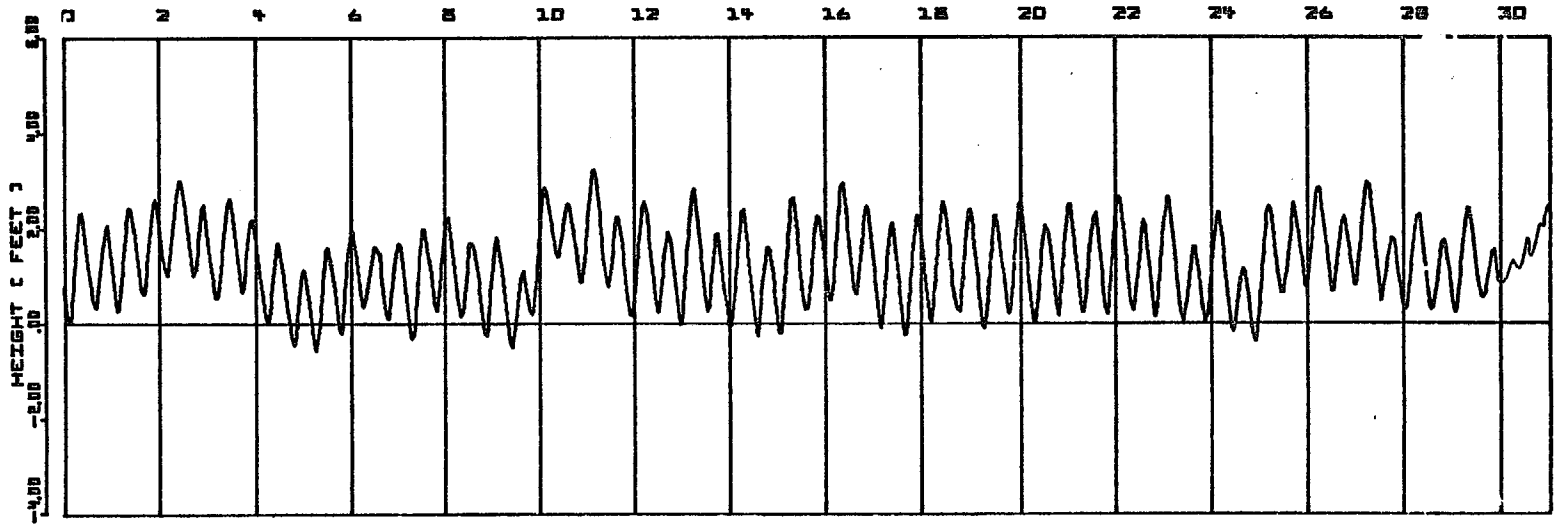
HAVRE DE GRACE [JULY 1974]



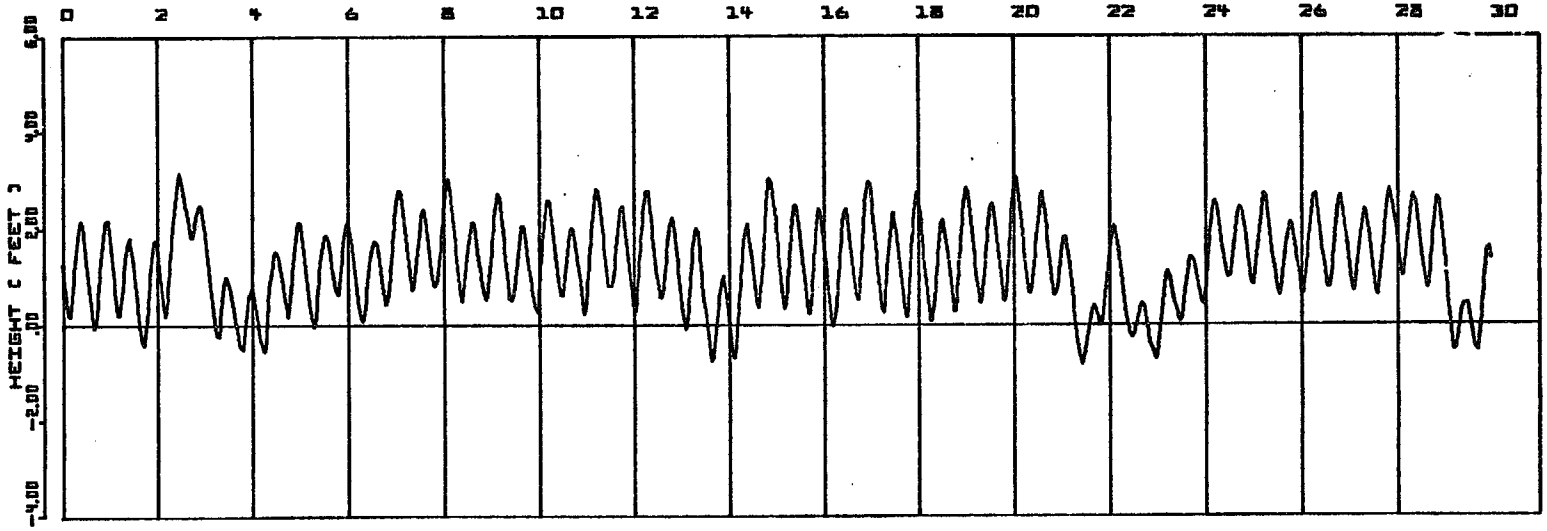
TIME IN DAYS

ACTUAL TIDE

HAVRE DE GRACE [AUGUST 1974]

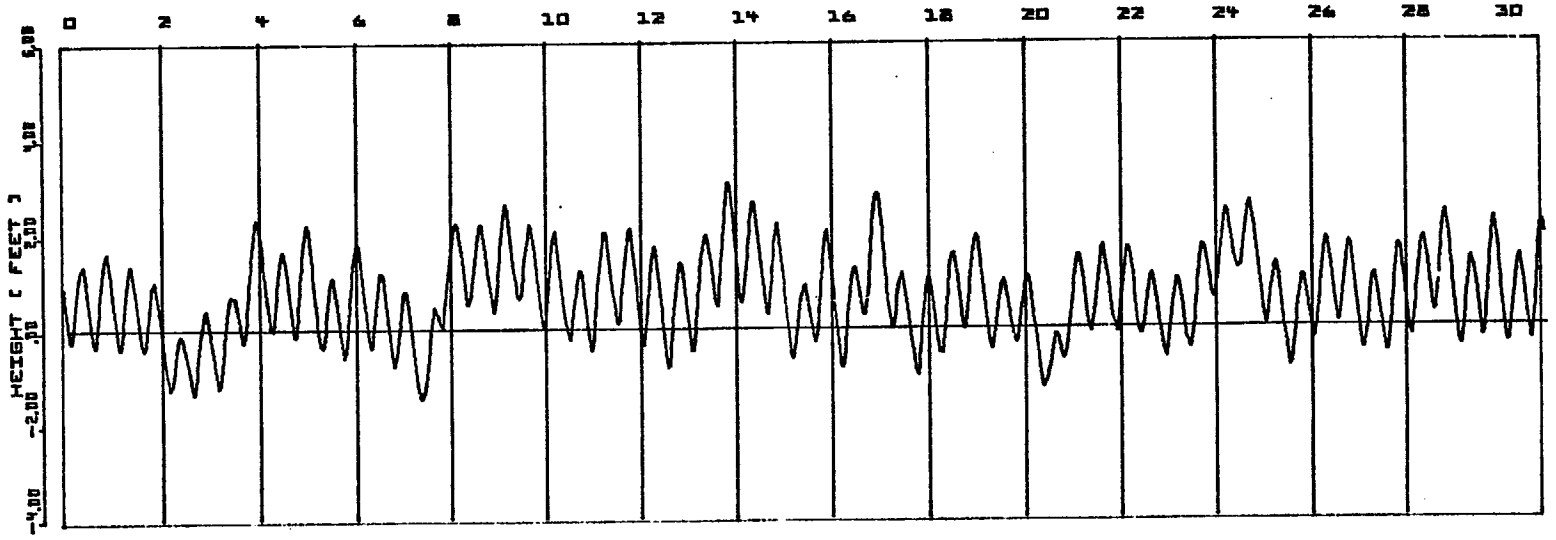


HAVRE DE GRACE [SEPTEMBER 1974]

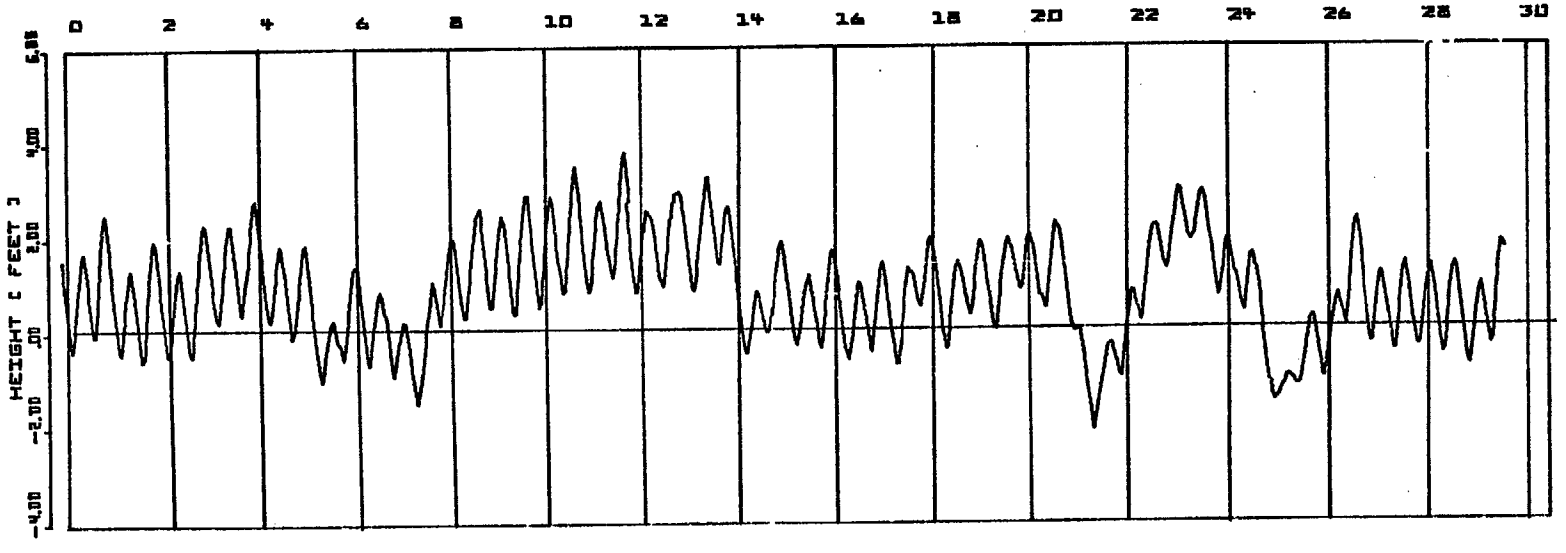


TIME IN DAYS

ACTUAL TIDE
HAVRE DE GRACE [OCTOBER 1974]

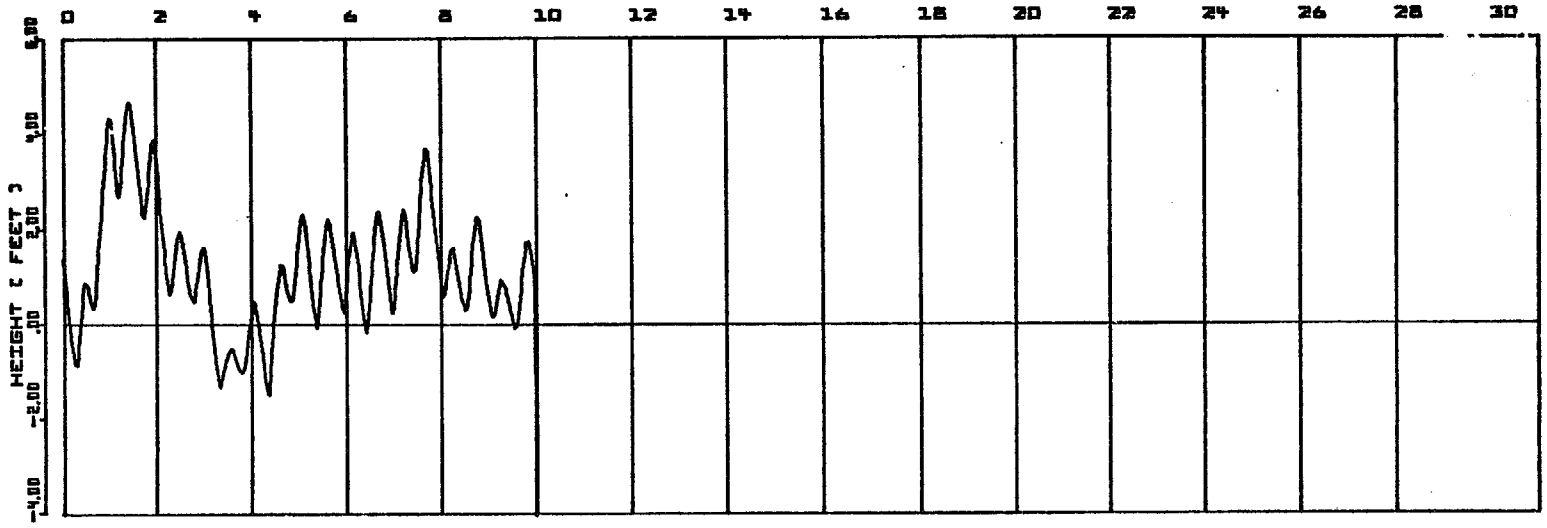


ACTUAL TIDE
HAVRE DE GRACE [NOVEMBER 1974]



TIME IN DAYS

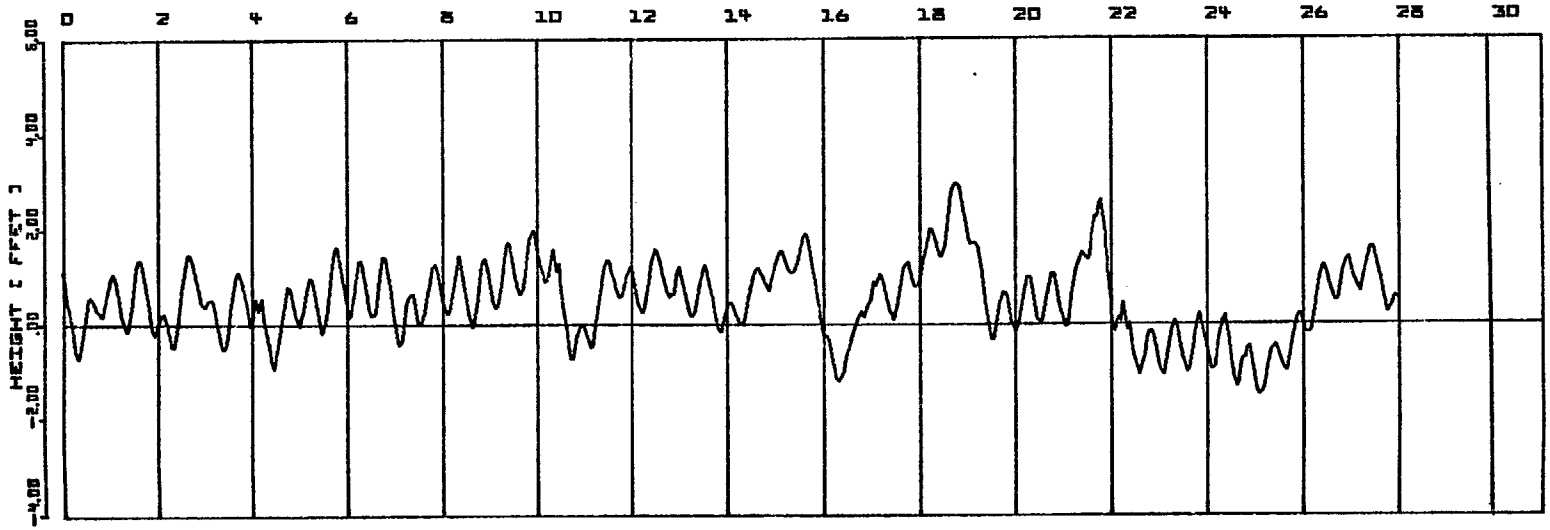
ACTUAL TIDE
HAVRE DE GRACE [DECEMBER 1974]



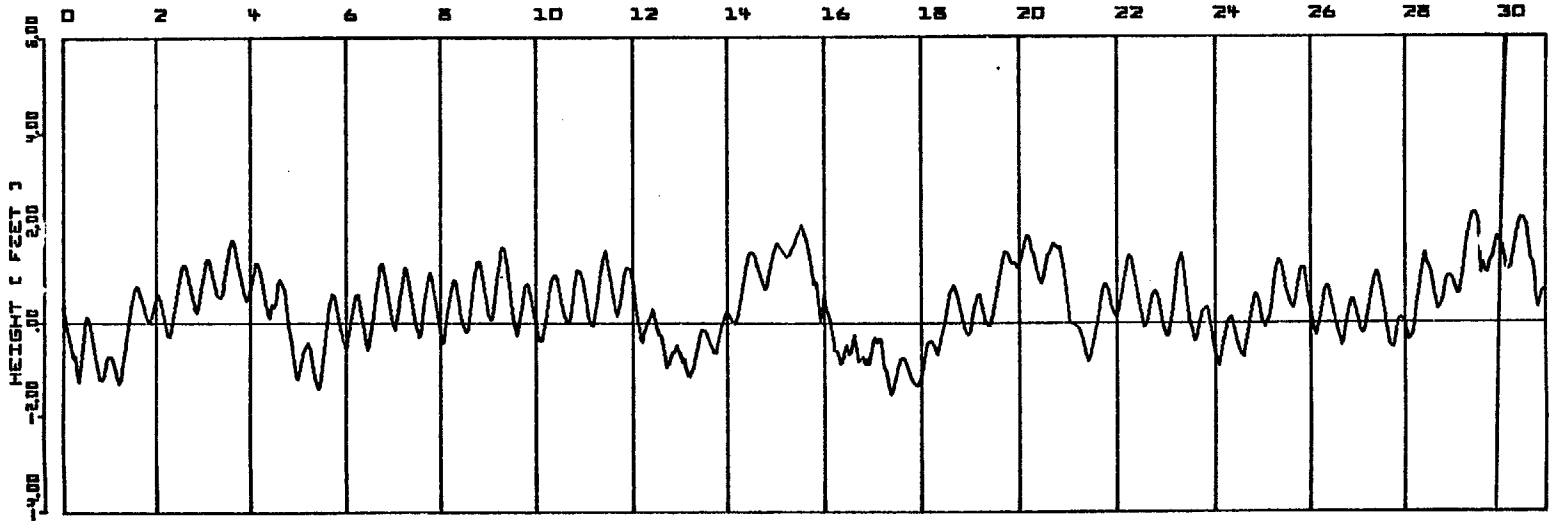
TIME IN DAYS

ACTUAL TIDE

BALTIMORE [FEBRUARY 1974]



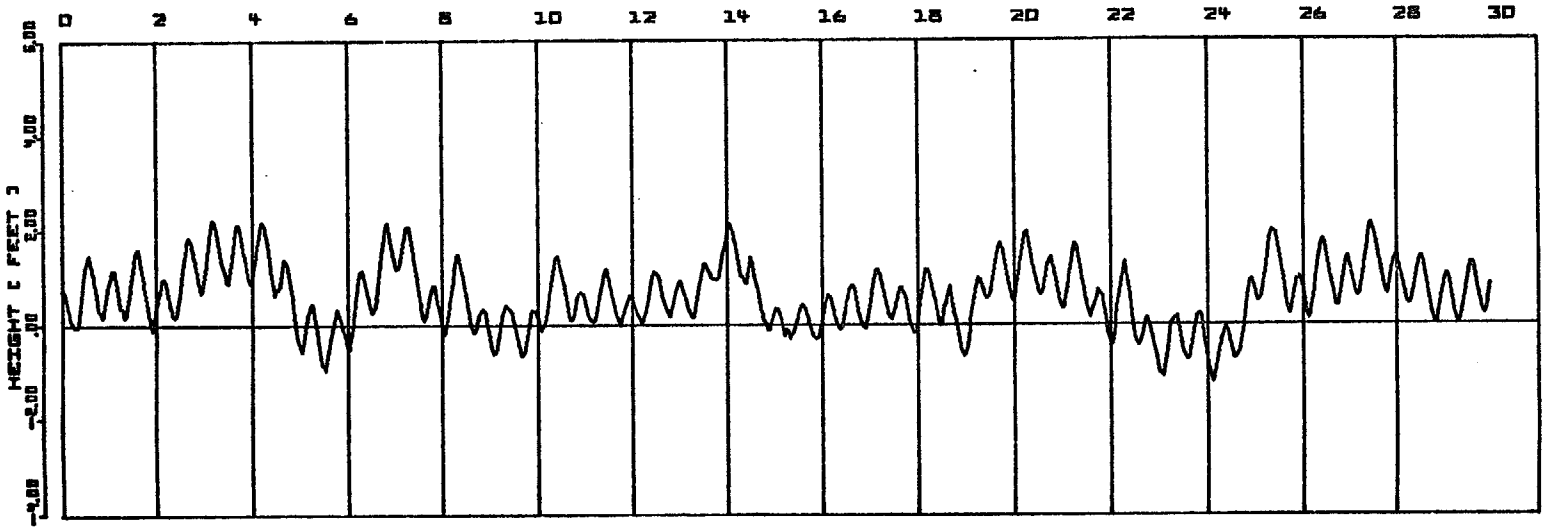
BALTIMORE [MARCH 1974]



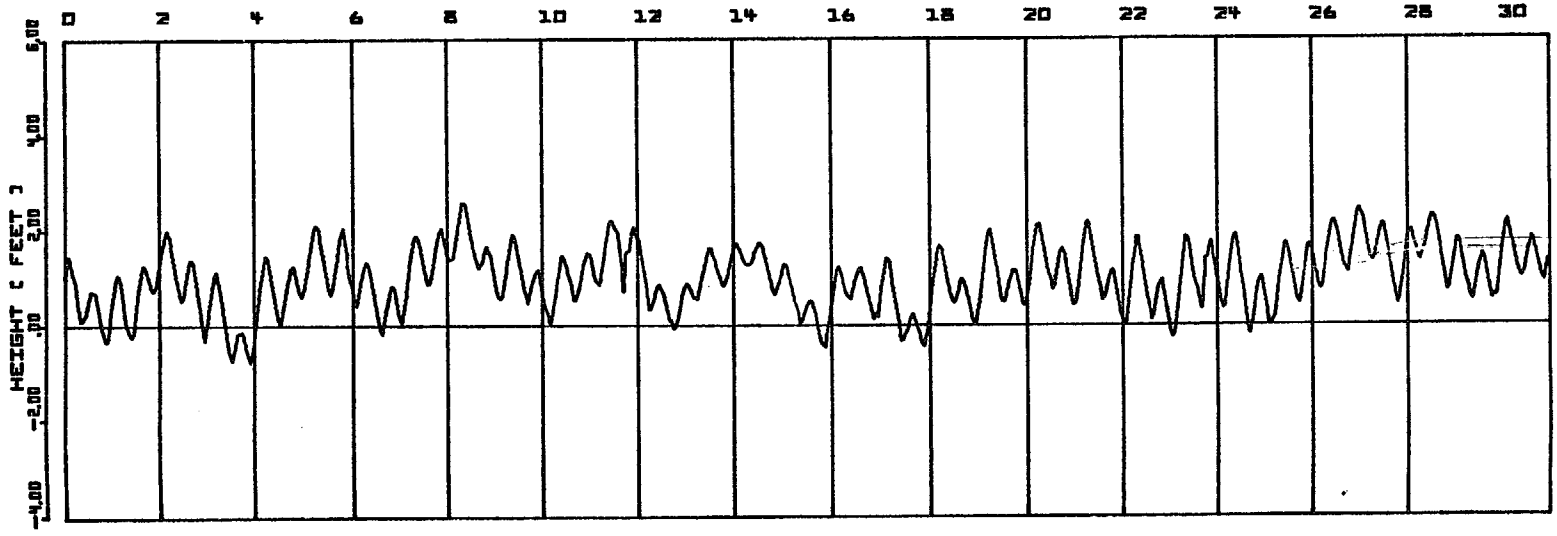
TIME IN DAYS

ACTUAL TIDE

BALTIMORE [APRIL 1974]



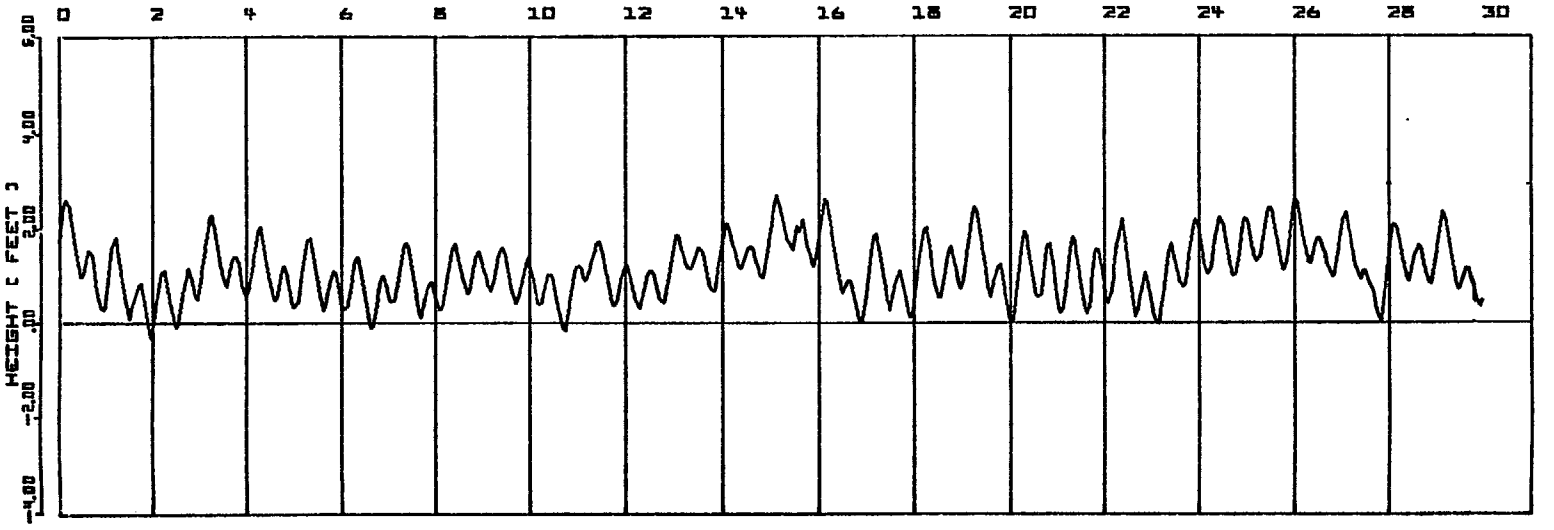
BALTIMORE [MAY 1974]



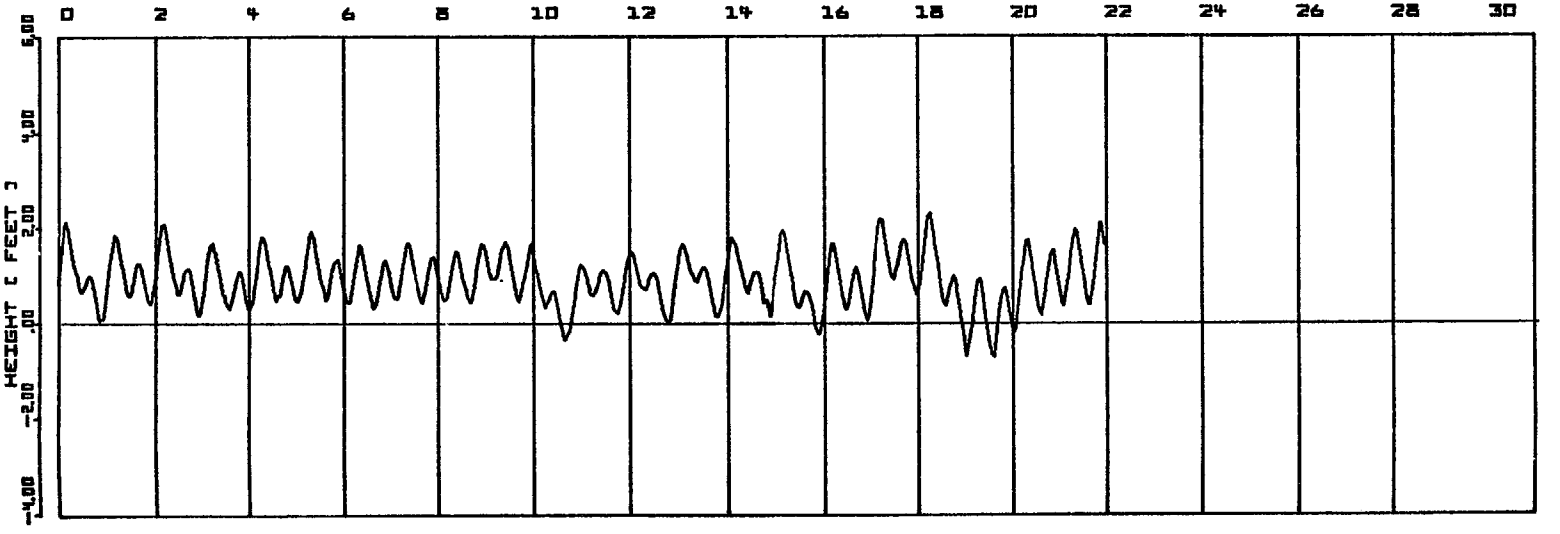
TIME IN DAYS

ACTUAL TIDE

BALTIMORE [JUNE 1974]



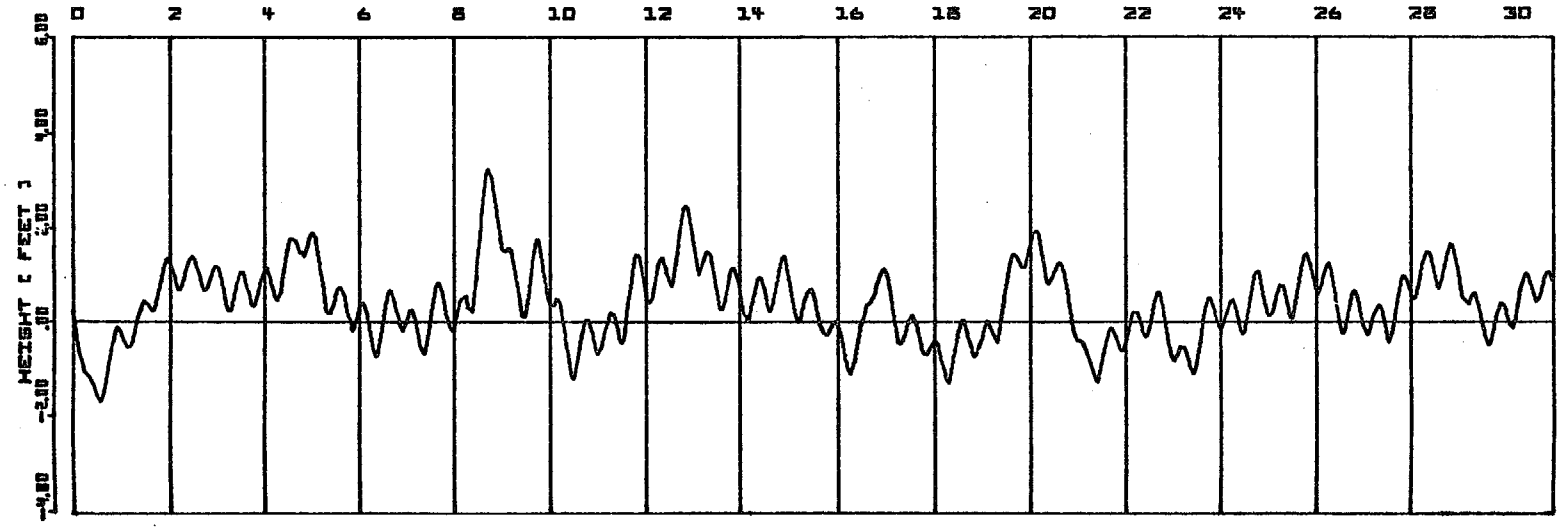
BALTIMORE [JULY 1974]



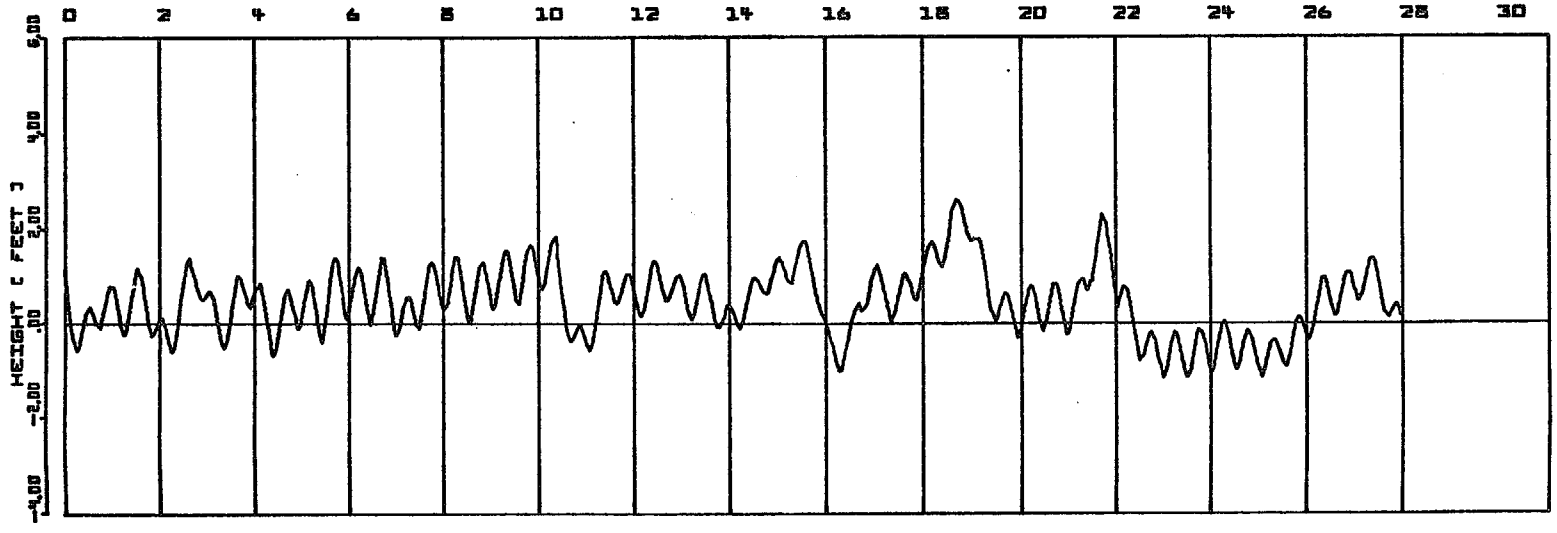
TIME IN DAYS

ACTUAL TIDE

MATAPEAKE [DECEMBER 1973]



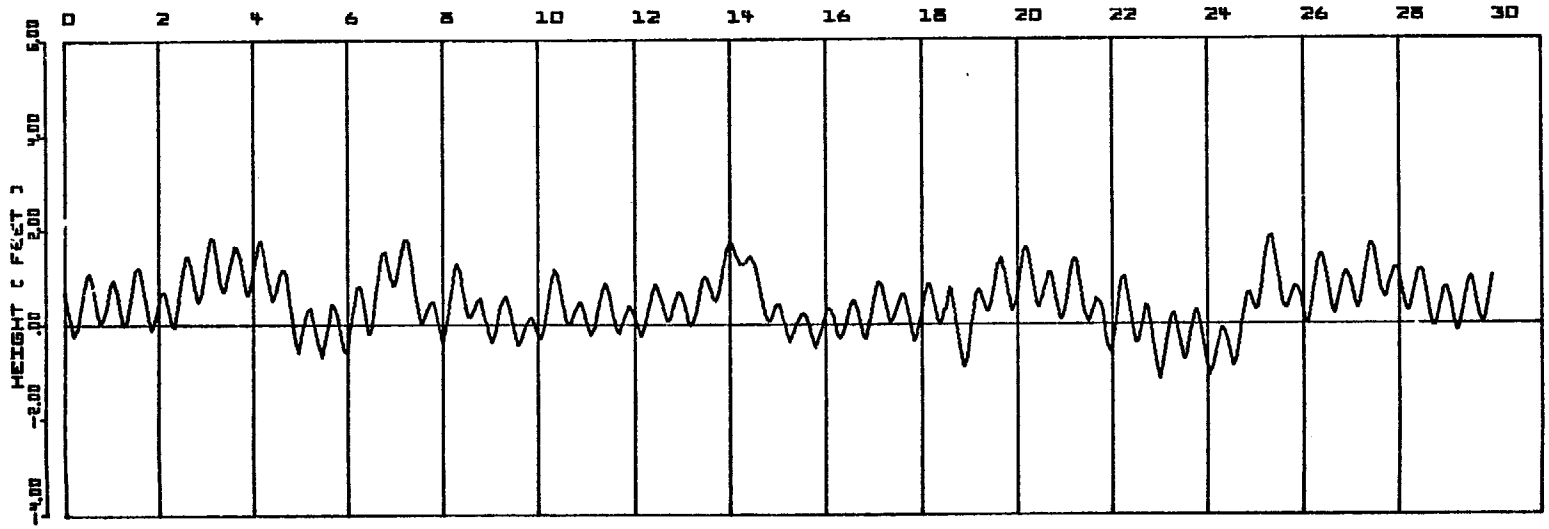
MATAPEAKE [FEBRUARY 1974]



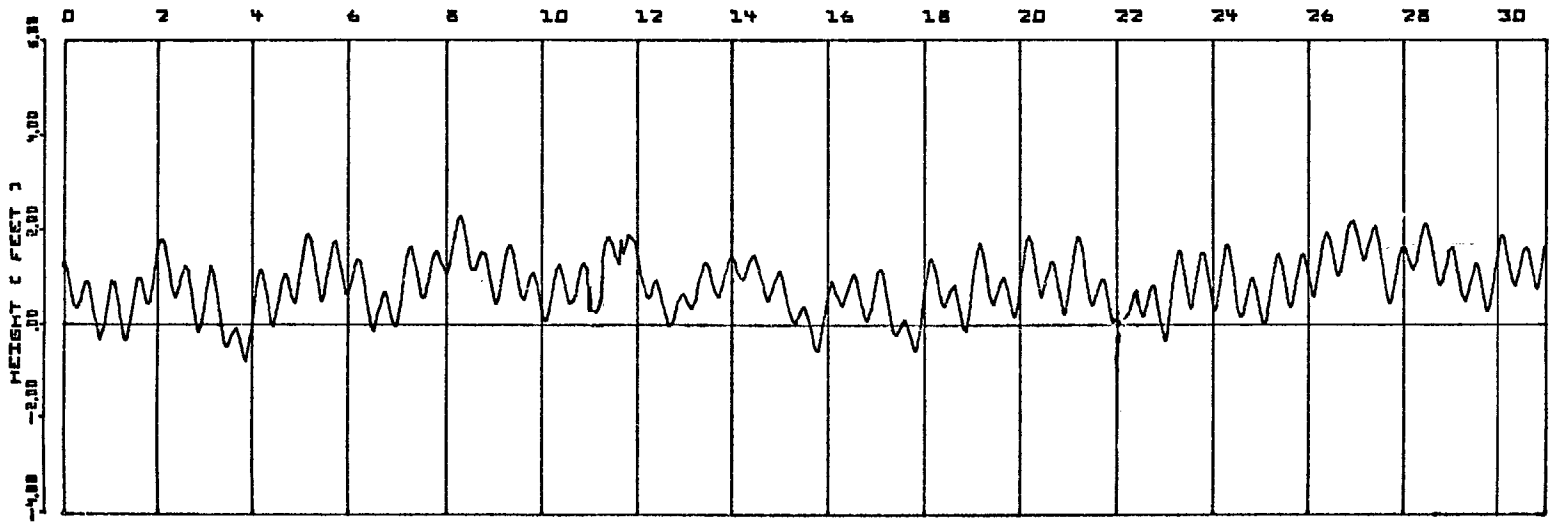
TIME IN DAYS

ACTUAL TIDE

MATAPEAKE [APRIL 1974]



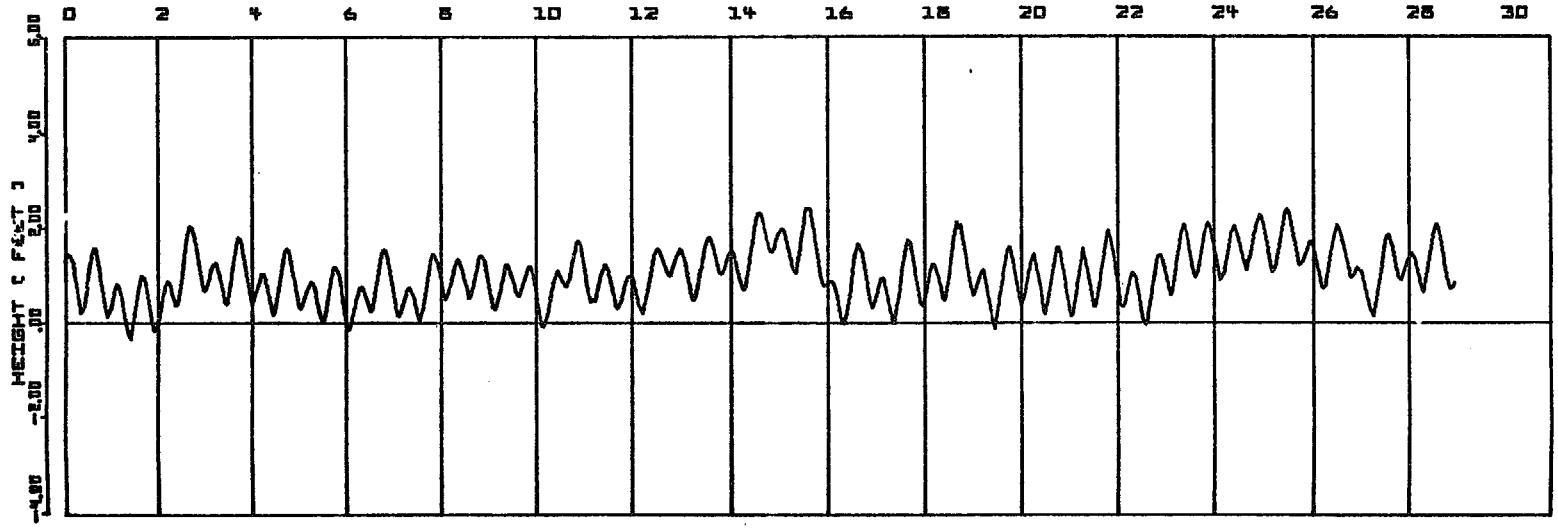
MATAPEAKE [MAY 1974]



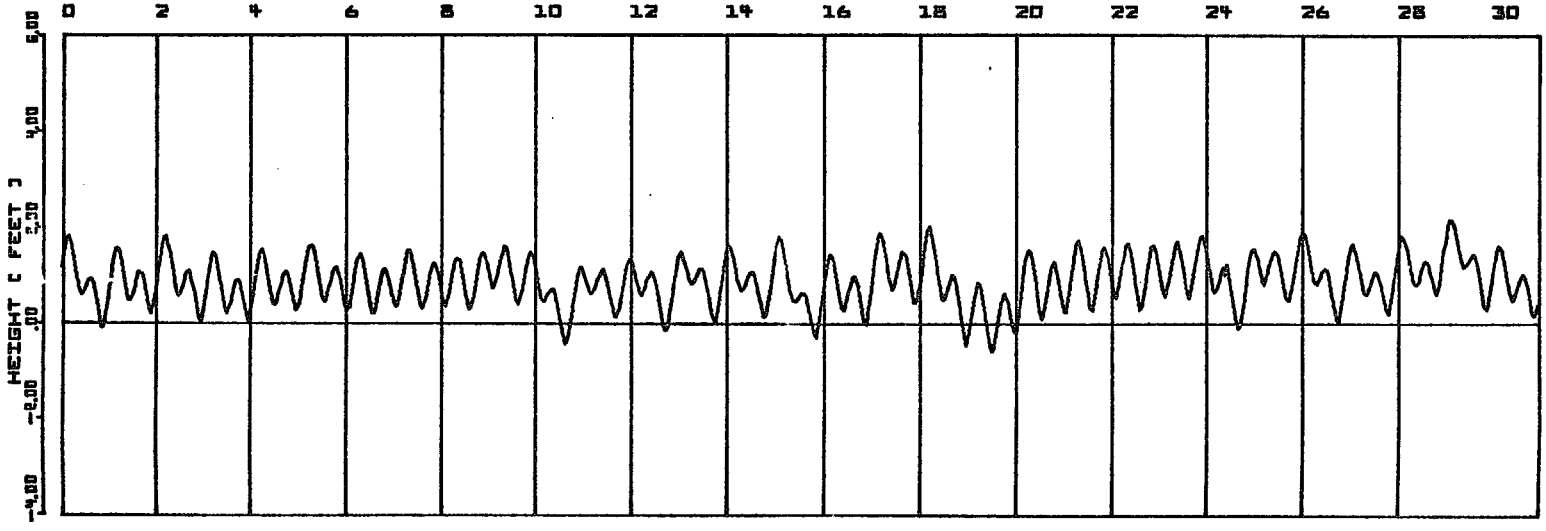
TIME IN DAYS

ACTUAL TIDE

MATAPEAKE [JUNE 1974]



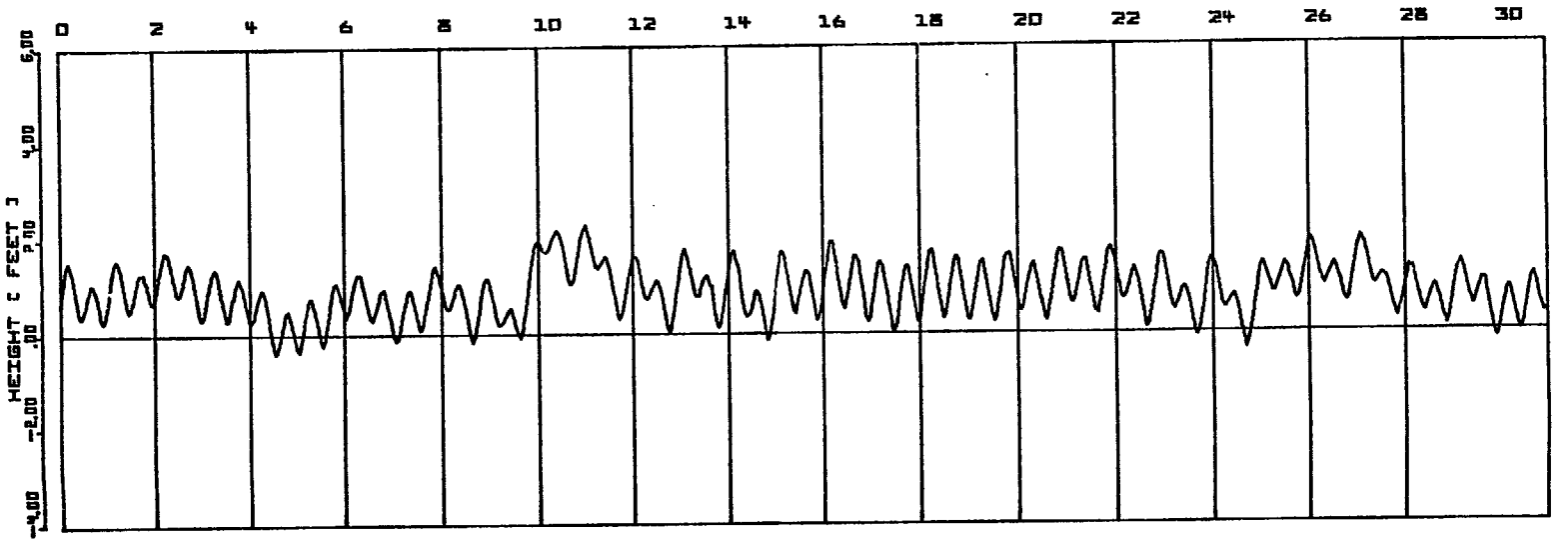
MATAPEAKE [JULY 1974]



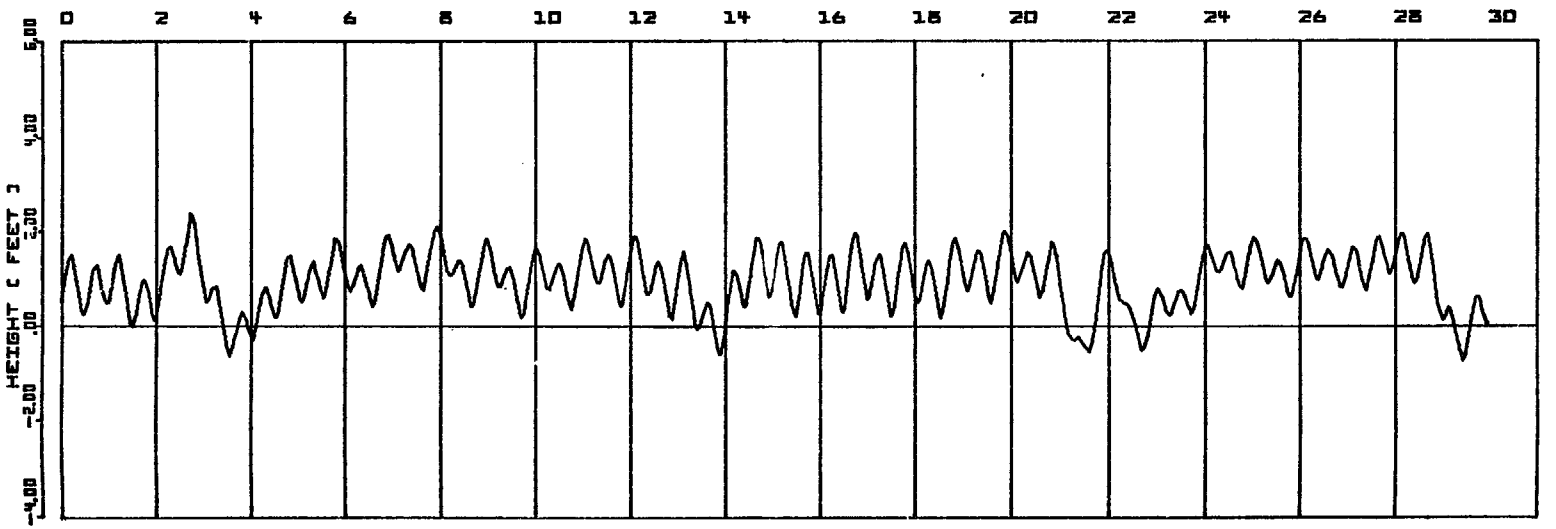
TIME IN DAYS

ACTUAL TIDE

MATAPEAKE [AUGUST 1974]



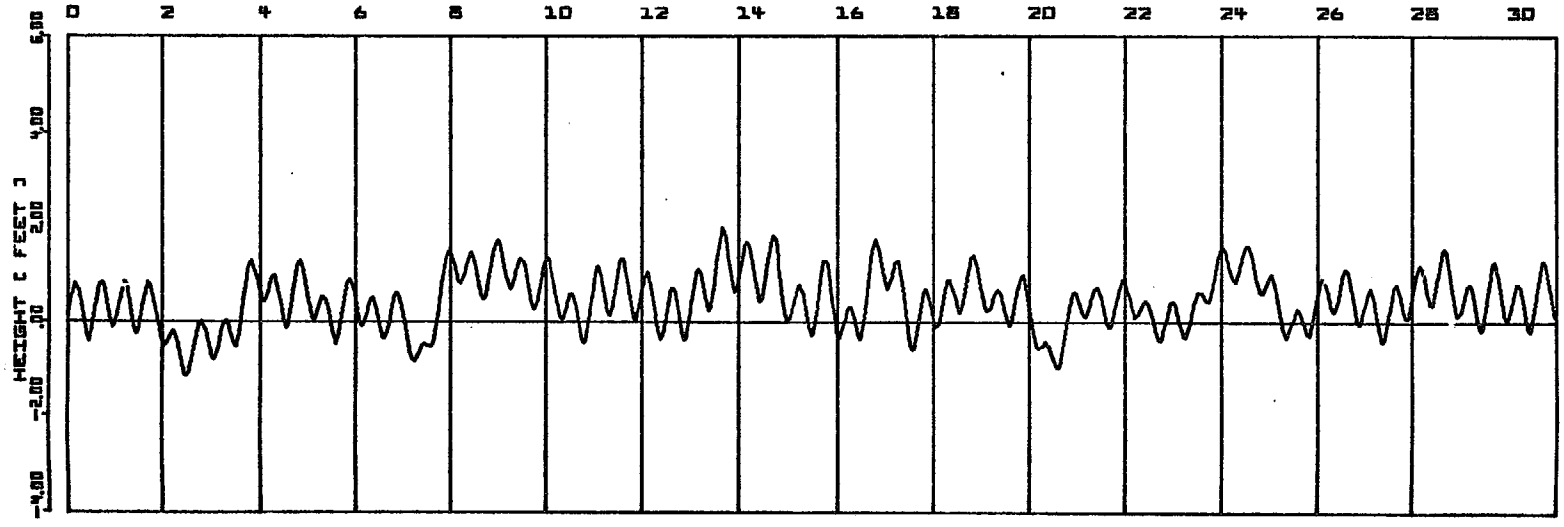
MATAPEAKE [SEPTEMBER 1974]



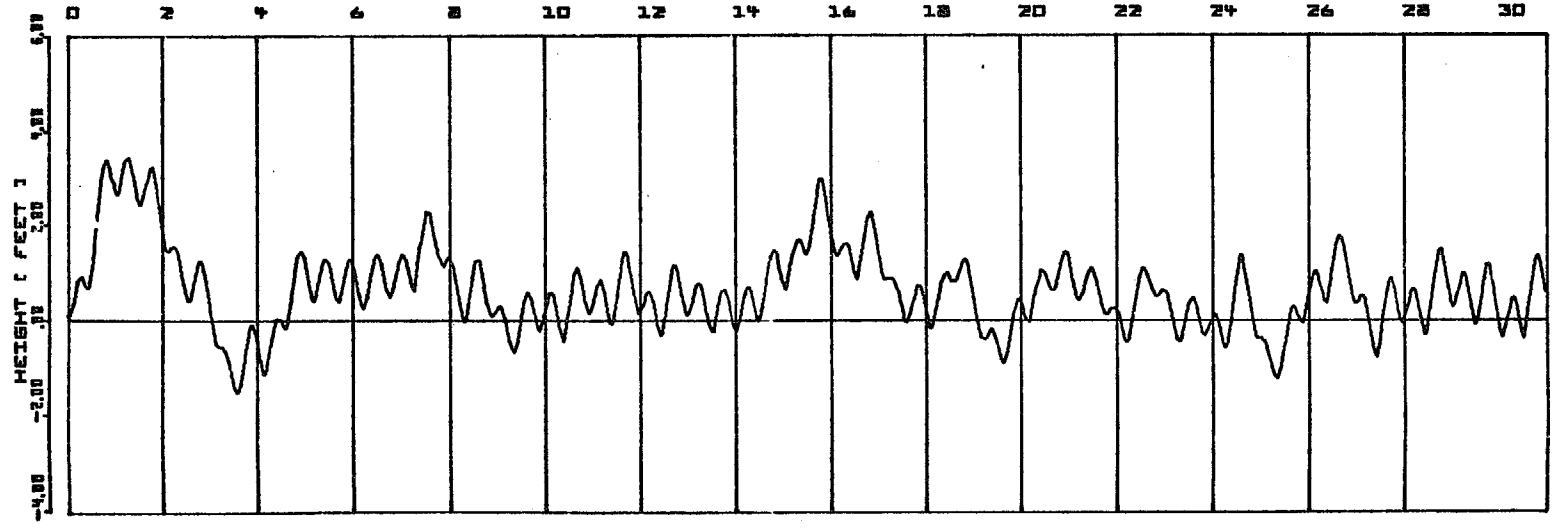
TIME IN DAYS

ACTUAL TIDE

MATAPEAKE [OCTOBER 1974]



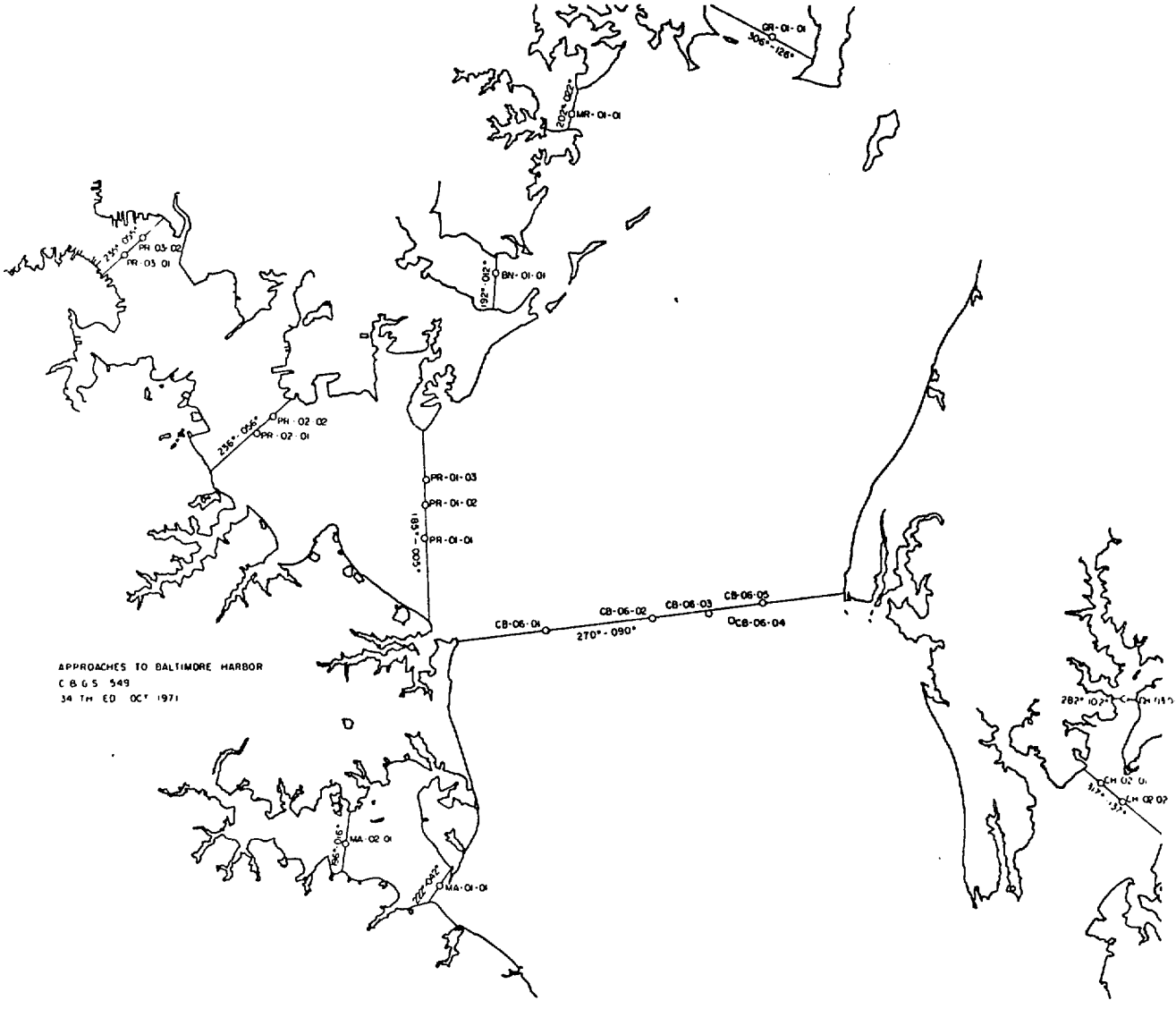
MATAPEAKE [DECEMBER 1974]



TIME IN DAYS

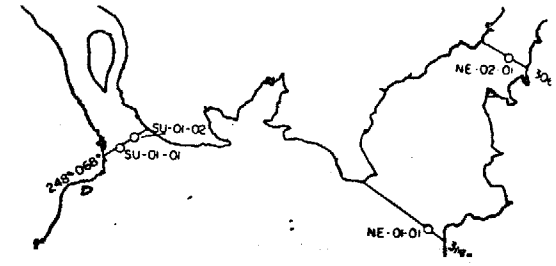
5. CURRENT DATA

5.1 Station CB-06 Chart



STATION	LATITUDE (NORTH)	LONGITUDE (WEST)	VELOCITY METER DEPTH (IN FEET)	REF. LINE FLOOD (CLOCKWISE)
CB-06-01	39°08'08"	76°23'42"	2, 12, 20	270°-090°
CB-06-02	39°08'21"	76°21'13"	2, 12, 18	"
CB-06-03	39°08'27"	76°20'07"	2, 12, 22, 32	"
CB-06-04	39°08'20"	76°19'23"	2, 12, 22, 32, 37	"
CB-06-05	39°08'39"	76°18'37"	2, 12, 19	"

5.2 Station CB-07 Chart



STATION	LATITUDE (NORTH)	LONGITUDE (WEST)	VELOCITY METER DEPTH (IN FEET)	REF. LINE FLOOD (CLOCKWISE)
CB-07-01	39°20'42"	76°12'53"	4,11	328°-148°
CB-07-02	39°20'13"	76°12'20"	2, 13	"
CB-07-03	39°19'57"	76°12'02"	2(4), 12, 22, 28	"
CB-07-04	39°19'33"	76°11'37"	2, 12, 22	"
CB-07-05	39°19'22"	76°11'24"	2, 12, 22, 32	"

5.3 Station Data Printouts

FILE	NO. REC.	HEADER RECORD		DATE RECORD
1	130	VCB06010002	2.00007623420390808	7231971
2	130	VCB06010012	12.00007623420390808	7231971
3	29	VCB06010020	20.00007623420390808	7231971
4	132	VCB06020002	2.00007621130390821	7231971
5	132	VCB06020012	12.00007621130390821	7231971
6	132	VCB06020018	18.00007621130390821	7231971
7	132	VCB06030002	2.00007620070390827	7231971
8	132	VCB06030022	22.00007620070390827	7231971
9	132	VCB06030032	32.00007620070390827	7231971
10	86	VCB06040002	2.00007619230390820	7231971
11	133	VCB06040022	22.00007619230390820	7231971
12	133	VCB06040032	32.00007619230390820	7231971
13	135	VCB06050002	2.00007618370390839	7231971
14	135	VCB06050012	12.00007618370390839	7231971
15	130	VCB07010004	4.00007612530392042	7231971
16	130	VCB07010011	11.00007612530392042	7231971

FILE	NO. REC.	HEADER RECORD		DATE RECORD
17	137	VCB07020002	2.00007612200392013	7231971
18	137	VCB07020013	13.00007612200392013	7231971
19	134	VCB07030002	2.00007612020391957	7231971
20	128	VCB07030004	4.00007612020391957	10101971
21	400	VCB07030012	12.00007612020391957	7231971 8 31971 10 41971 10101971
22	466	VCB07030022	22.00007612020391957	7231971 8 31971 10 41971 10101971
23	466	VCB07030028	28.00007612020391957	7231971 8 31971 10 41971 10101971
24	135	VCB07040002	2.00007611370391933	7231971
25	135	VCB07040012	12.00007611370391933	7231971
26	135	VCB07040022	22.00007611370391933	7231971
27	136	VCB07050002	2.00007611240391922	7231971
28	70	VCB07050012	12.00007611240391922	7231971
29	137	VCB07050022	22.00007611240391922	7231971
30	137	VCB07050032	32.00007611240391922	7231971

5.4 Input Data for the Numerical Model

FILE: 1

STATION:VCB0601 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 23.67(HRS) END 187.33(HRS) FIRST EBB DATA : 23.83(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
23.83	48.67	.239	.239	.128	.128
48.67	73.50	.270	.255	.043	.085
73.50	98.33	.225	.245	.478	.216
98.33	123.17	.070	.201	-.440	.052
123.17	148.00	-.090	.143	.127	.067
148.00	172.83	.237	.159	.521	.142

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FILE: 2

STATION:VCB0601 DEPTH: 12.00(FT) DATE: 7/23/1971

DATA START : 21.83(HRS) END 187.33(HRS) FIRST EBB DATA : 22.00(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
22.00	46.83	-.128	-.128	-.076	-.076
46.83	71.67	-.113	-.120	-.074	-.075
71.67	96.50	-.283	-.175	.166	.005
96.50	121.33	.165	-.090	-.129	-.028
121.33	146.17	-.031	-.078	-.037	-.030
146.17	171.00	-.164	-.092	.074	-.013

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READY.

FILE: 3

INVALID DATA AT TIME 0.00(HOURS)

STATION:VCB0601 DEPTH: 20.00(FT) DATE: 7/23/1971

DATA START : 21.67(HRS) END 51.83(HRS) FIRST EBB DATA : 21.83(HR
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
21.83	46.67	-.045	-.045	.007	.007

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FILE: 4

INVALID DATA AT TIME 42.33(HOURS)
42.17 .846 338.000
42.33 .837 338.000
42.50 827 347.000
INVALID DATA AT TIME 0.00(HOURS)

STATION:VCB0602 DEPTH: 2.00(FT) DATE: 7/23/1974

DATA START : 17.17(HRS) END 188.00(HRS) FIRST EBB DATA : 17.33(HR
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
17.33	42.17	.104	.104	.191	.191
42.17	67.00	.149	.127	.051	.121
67.00	91.83	.136	.130	.353	.198
91.83	116.67	-.193	.049	-.401	.048
116.67	141.50	-.529	-.066	-.244	-.010
141.50	166.33	.195	-.023	.655	.100

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FILE: 5

STATION:VCB0602 DEPTH: 12.00(FT) DATE: 7/23/1974

DATA START : 22.50(HRS) END 188.00(HRS) FIRST EBB DATA : 22.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
22.67	47.50	-.054	-.054	.018	.018
47.50	72.33	-.074	-.064	-.015	.001
72.33	97.17	-.025	-.051	.210	.071
97.17	122.00	-.120	-.068	-.249	-.009
122.00	146.83	-.119	-.078	-.195	-.046
146.83	171.83	.098	-.049	.066	-.027

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FILE: 6

STATION:VCB0602 DEPTH: 18.00(FT) DATE: 7/23/1971

DATA START : 21.17(HRS) END 188.00(HRS) FIRST EBB DATA : 21.33(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
21.33	46.17	-.088	-.088	-.021	-.021
46.17	71.00	-.085	-.087	-.021	-.021
71.00	95.83	-.217	-.130	.147	.035
95.83	120.67	.095	-.074	-.113	-.002
120.67	145.50	.036	-.052	-.109	-.024
145.50	170.33	-.485	-.125	-.003	-.020

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READY.

FILE : 7

STATION:VCB0603 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 24.00(HRS) END 364.65(HRS) FIRST EBB DATA : 24.17(HR
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
24.17	49.00	-.052	-.052	.161	.161
49.00	73.83	.200	.074	.088	.125
73.83	98.67	-.109	.013	.462	.237
98.67	123.50	-.337	-.075	-.509	.050
123.50	148.33	-.231	-.106	.038	.048
148.33	173.17	.398	-.022	-.056	.030

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FILE : 8

STATION:VCB0603 DEPTH: 22.00(FT) DATE: 7/23/1971

DATA START : 17.00(HRS) END 316.65(HRS) FIRST EBB DATA : 17.17(HRS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
17.17	42.00	-.250	-.250	.086	.086
42.00	66.83	-.340	-.295	.084	.085
66.83	91.67	-.539	-.376	.071	.081
91.67	116.50	-.142	-.324	.084	.081
116.50	141.33	-.187	-.291	.424	.150
141.33	166.17	-.569	-.338	-.012	.123

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FILE : 9

STATION:VCB0603 DEPTH: 32.00(FT) DATE: 7/23/1971

DATA START : 22.33(HRS) END 436.65(HRS) FIRST EBB DATA : 22.50(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
22.50	47.33	.078	.078	.094	.094
47.33	72.17	.073	.076	.063	.079
72.17	97.00	.156	.102	.023	.060
97.00	121.83	.130	.109	.127	.076
121.83	146.67	.106	.108	.226	.127
146.67	171.50	.108	.109	-.085	.091

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FILE : 10

STATION:VCB0604 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 23.50(HRS) END 220.65(HRS) FIRST EBB DATA : 23.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
23.67	48.50	.029	.029	.114	.114
48.50	73.33	.315	.172	.028	.071
73.33	98.17	-.023	.107	.462	.201
98.17	123.00	-.236	.021	-.527	.020

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FILE : 11

STATION:VCB0604 DEPTH: 22.00(FT) DATE: 7/23/1971

DATA START : 22.83(HRS) END 316.65(HRS) FIRST EBB DATA : 23.00(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
23.00	47.83	-.229	-.229	.044	.044
47.83	72.67	-.235	-.232	.035	.039
72.67	97.50	-.405	-.290	.061	.047
97.50	122.33	-.130	-.250	.124	.066
122.33	147.17	-.164	-.233	.345	.122
147.17	172.00	-.523	-.281	-.247	.060

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FILE : 12

STATION:VCB0604 DEPTH: 32.00(FT) DATE: 7/23/1971

DATA START : 21.67(HRS) END 388.65(HRS) FIRST EBB DATA : 21.83(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
21.83	46.67	.088	.088	.027	.027
46.67	71.50	.093	.090	.008	.018
71.50	96.33	.198	.126	-.080	-.015
96.33	121.17	.069	.112	.080	.009
121.17	146.00	.201	.130	.266	.060
146.00	170.83	.187	.139	-.141	.027

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FILE : 13

STATION:VCB0605 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 23.00(HRS) END 388.65(HRS) FIRST EBB DATA : 23.17(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
23.17	48.00	-.194	-.194	.175	.175
48.00	72.83	.126	-.034	.021	.098
72.83	97.67	-.211	-.093	.407	.201
97.67	122.50	-.185	-.116	-.506	.024
122.50	147.33	-.451	-.183	.295	.078
147.33	172.17	-.385	-.217	.375	.128

READY.

FILE : 14

STATION:VCB0605 DEPTH: 12.00(FT) DATE: 7/23/1971

DATA START : 15.33(HRS) END 268.65(HRS) FIRST EBB DATA : 15.50(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
15.50	40.33	-.109	-.109	-.271	-.271
40.33	65.17	-.376	-.242	-.033	-.152
65.17	90.00	-.470	-.318	.185	-.040
90.00	114.83	-.353	-.327	-.104	-.056
114.83	139.67	-.154	-.292	.119	-.021
139.67	164.50	-.566	-.334	.135	.005
164.50	189.33	-.322	-.337	-.242	-.030

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FILE: 15

STATION:VCB0701 DEPTH: 4.00(FT) DATE: 7/23/1971

DATA START : 22.67(HRS) END 292.65(HRS) FIRST EBB DATA : 22.83(HOURS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.H) (FPS)	N-S(AVE) (FPS)
22.83	47.67	-.018	-.018	.064	.064
47.67	72.50	-.084	-.051	.067	.065
72.50	97.33	.097	-.002	.120	.084
97.33	122.17	-.119	-.031	-.021	.058
122.17	147.00	-.007	-.026	.110	.068
147.00	171.83	-.138	-.045	.163	.084

READY.

FILE : 16

STATION:VCB0702 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 10.17(HRS) END 364.65(HRS) FIRST EBB DATA : 10.33(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.33	35.17	-.892	-.892	.123	.123
35.17	60.00	-.723	-.807	127	.125
60.00	84.83	-.700	-.771	.288	.179
84.83	109.67	-.743	-.767	.122	.165
109.67	134.50	-.991	-.810	-.042	.124
134.50	159.33	-.684	-.798	.439	.176
159.33	184.17	-.679	-.773	.050	.158

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FILE : 17

STATION:VCB0701 DEPTH: 11.00(FT) DATE: 7/23/1971

DATA START : 22.50(HRS) END 316.65(HRS) FIRST EBB DATA : 22.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
22.67	47.50	.084	.084	.083	.083
47.50	72.33	.064	.074	.085	.084
72.33	97.17	.161	.103	.085	.084
97.17	122.00	.006	.065	.071	.081
122.00	146.83	.059	.075	.022	.069
146.83	171.67	.090	.077	.008	.059

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FILE : 18

STATION:VCB0702 DEPTH: 13.00(FT) DATE: 7/23/1971

DATA START : 10.33(HRS) END 340.65(HRS) FIRST EBB DATA : 10.50(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.50	35.33	-.079	-.079	-.317	-.317
35.33	60.17	-.146	-.112	-.275	-.296
60.17	85.00	-.027	-.084	-.193	-.261
85.00	109.83	-.112	-.091	-.297	-.270
109.83	134.67	-.122	-.097	-.332	-.282
134.67	159.50	.013	-.078	-.074	-.248
159.50	184.33	-.303	-.111	-.429	-.274

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FILE : 19

STATION:VCB0703 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 11.00(HRS) END 412.65(HRS) FIRST EBB DATA : 11.17(HOURS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.H) (FPS)	N-S(AVE) (FPS)
11.17	36.00	-.434	-.434	-.074	-.074
36.00	60.83	-.182	-.308	-.226	-.150
60.83	85.67	-.334	-.317	.253	-.016
85.67	110.50	-.212	-.291	-.177	-.056
110.50	135.33	-.345	-.302	-.551	-.155
135.33	160.17	-.383	-.315	.336	-.073
160.17	185.00	-.396	-.327	-.226	-.095

READY.

FILE :20

STATION:VCB0703 DEPTH: 4.00(FT) DATE:10/10/1971

DATA START : 21.83(HRS) END 316.65(HRS) FIRST EBB DATA : 22.00(HRS)
AVERGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
22.00	46.83	-.352	-.352	-.333	-.333
46.83	71.67	-.534	-.443	-.522	-.428
71.67	96.50	-.032	-.306	-.001	-.285
96.50	121.33	-.362	-.320	-.491	-.336
121.33	146.17	-.409	-.337	-.561	-.381
146.17	171.00	-.315	-.334	-.429	-.389

READY.

FILE : 21

STATION:VCB0703 DEPTH: 12.00(FT) DATE: 7/23/1971

DATA START : 23.00(HRS) END 744.00(HRS) FIRST EBB DATA : 23.33(HOURS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(49.7H (FPS)	E-W(AVE) (FPS)	N-S(49.7H (FPS)	N-S(AVE) (FPS)
23.33	73.00	-.100	-.100	-.137	-.137
73.00	122.67	-.036	-.068	-.190	-.163
122.67	172.33	-.044	-.060	-.125	-.150

NOTE: THE REASON WHY THE PERIOD BETWEEN 23.33 AND 73.00 IS 49.67 IS BECAUSE THE INTERVAL FOR DATA COLLECTION WAS 20 MINUTES INSTED OF 10 MINUTES AS WITH OTHER FILES.

FILE: 22

STATION:VCB0703 DEPTH: 22.00(FT) DATE: 7/23/1971

DATA START : 22.83(HRS) END 554.83(HRS) FIRST EBB DATA : 23.33(HOURS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.H) (FPS)	N-S(AVE) (FPS)
23.33	48.17	.032	.032	-.088	-.088
48.17	73.00	.051	.041	-.059	-.073
73.00	97.83	.133	.072	-.008	-.051
97.83	122.67	.060	.069	-.138	-.073
122.67	147.50	.157	.087	.024	-.054
147.50	172.33	-.006	.071	-.083	-.059

FILE: 23

STATION:VCB0703 DEPTH: 28.00(FT) DATE: 7/23/1971

DATA START : 22.50(HRS) END 554.83(HRS) FIRST EBB DATA : 22.67(HOURS
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.H) (FPS)	N-S(AVE) (FPS)
22.67	47.50	.100	.100	-.022	-.022
47.50	72.33	.126	.113	.018	-.002
72.33	97.17	.100	.109	.110	.035
97.17	122.00	.100	.107	-.043	.016
122.00	146.83	.228	.131	.089	.030
146.83	171.67	.138	.132	-.018	.022

FILE :24

STATION:VCB0704 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 10.67(HRS) END 340.65(HRS) FIRST EBB DATA : 10.83(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.83	35.67	.219	.219	.133	.133
35.67	60.50	.262	.240	-.020	.056
60.50	85.33	.212	.231	.399	.170
85.33	110.17	.212	.226	-.010	.125
110.17	135.00	.042	.189	.061	.112
135.00	159.83	.068	.169	.518	.180
159.83	184.67	.002	.145	-.301	.111

FILE : 25

STATION:VCB0704 DEPTH: 12.00(FT) DATE: 7/23/1971

DATA START : 10.50(HRS) END 340.65(HRS) FIRST EBB DATA : 10.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.67	35.50	.044	.044	.251	.251
35.50	60.33	.024	.034	.220	.236
60.33	85.17	.052	.040	.302	.257
85.17	110.00	-.012	.027	.199	.243
110.00	134.83	.075	.037	.187	.231
134.83	159.67	.208	.065	.444	.267
159.67	184.50	-.047	.049	-.066	.219

READY.

FILE :26

STATION:VCB0704 DEPTH: 22.00(FT) DATE: 7/23/1971

DATA START : 10.50(HRS) END 340.65(HRS) FIRST EBB DATA : 10.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.67	35.50	-.080	-.080	.174	.174
35.50	60.33	-.095	-.087	.174	.174
60.33	85.17	-.055	-.076	.175	.174
85.17	110.00	-.090	-.080	.115	.159
110.00	134.83	-.028	-.069	.144	.156
134.83	159.67	-.066	-.069	.390	.195
159.67	184.50	-.109	-.075	.005	.168

READY.

FILE : 27

STATION:VCB0705 DEPTH: 2.00(FT) DATE: 7/23/1971

DATA START : 9.67(HRS) END 292.65(HRS) FIRST EBB DATA : 9.83(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
9.83	34.67	-.042	-.042	.033	.033
34.67	59.50	.001	-.020	.077	.055
59.50	84.33	-.133	-.051	.196	.102
84.33	109.17	-.137	-.077	.004	.077
109.17	134.00	-.056	-.073	-.136	.035
134.00	158.83	-.281	-.108	.170	.057
158.83	183.67	-.046	-.099	-.086	.040

READY.

FILE : 28

STATION:VCB0705 DEPTH: 12.00(FT) DATE: 7/23/1971

DATA START : 9.67(HRS) END 436.65(HRS) FIRST EBB DATA : 10.00(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.00	59.67	-.012	-.012	-.023	-.023
59.67	109.33	-.073	-.043	.024	.001
109.33	159.00	-.116	-.067	.024	.008

READY.

FILE : 29

STATION:VCB0705 DEPTH: 22.00(FT) DATE: 7/23/1971

DATA START : 9.83(HRS) END 436.65(HRS) FIRST EBB DATA : 10.00(HRS)
AVERAGE E - W AND N - S COMPONENTS

TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
10.00	34.83	-.010	-.010	.006	.006
34.83	59.67	-.008	-.009	-.006	-.000
59.67	84.50	.005	-.004	.033	.011
84.50	109.33	.001	-.003	-.042	-.002
109.33	134.17	.041	.006	-.036	-.009
134.17	159.00	.084	.019	.026	-.003
159.00	183.83	-.045	.010	-.093	-.016

READY.

FILE :30

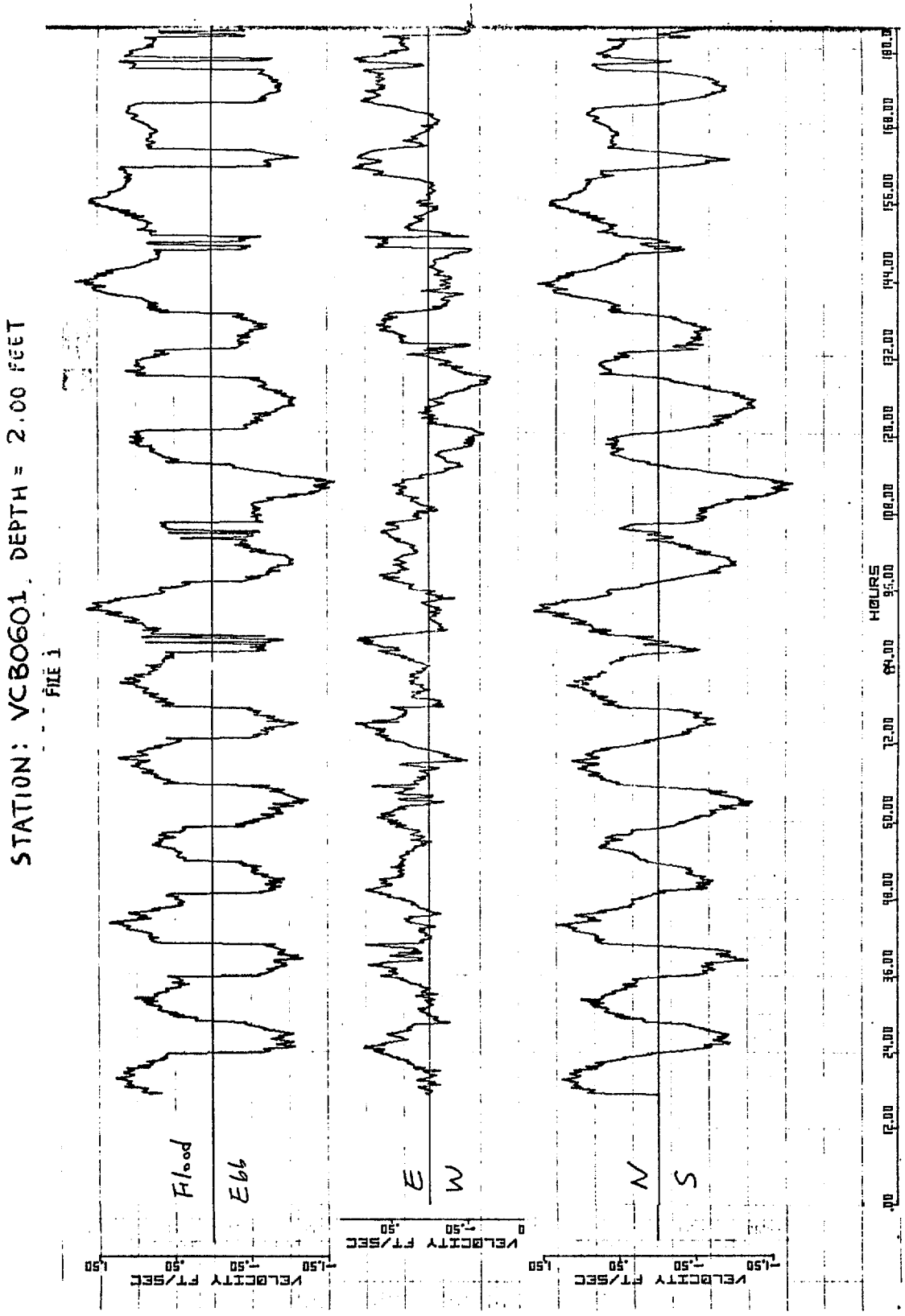
STATION:VCB0705 DEPTH: 32.00(FT) DATE: 7/23/1971

DATA START : 9.50(HRS) END 436.65(HRS) FIRST EBB DATA : 9.67(HRS)
AVERAGE E - W AND N - S COMPONENTS

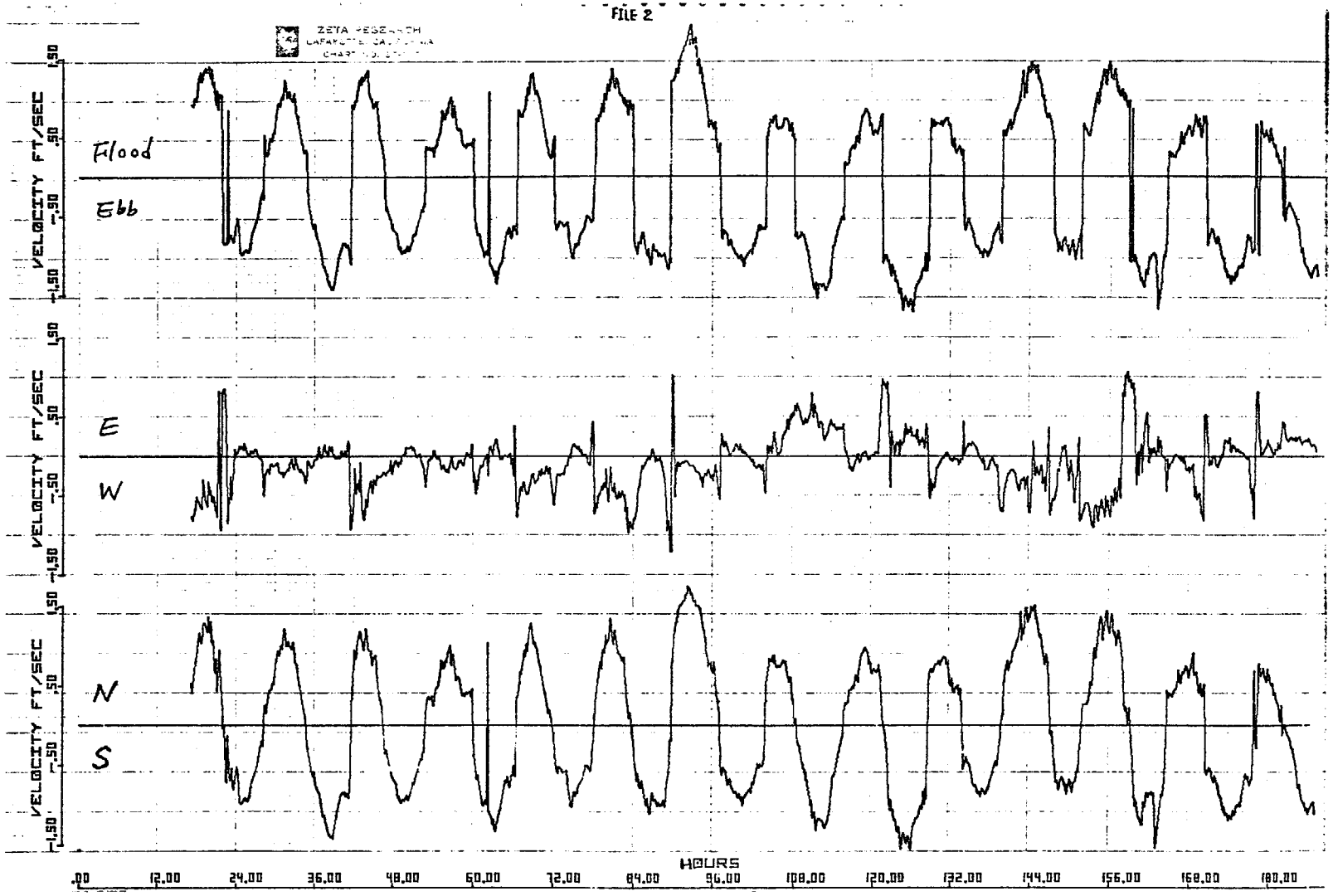
TIME(HOURS)		E-W(24.8H) (FPS)	E-W(AVE) (FPS)	N-S(24.8H) (FPS)	N-S(AVE) (FPS)
9.67	34.50	-.034	-.034	.106	.106
34.50	59.33	-.008	-.021	.070	.088
59.33	84.17	.043	.000	.047	.074
84.17	109.00	.041	.010	.005	.055
109.00	133.83	.004	.009	.003	.044
133.83	158.67	.171	.036	.048	.045
158.67	183.50	-.002	.031	-.061	.030

READY.

5.5 **Curent Velocity Data**

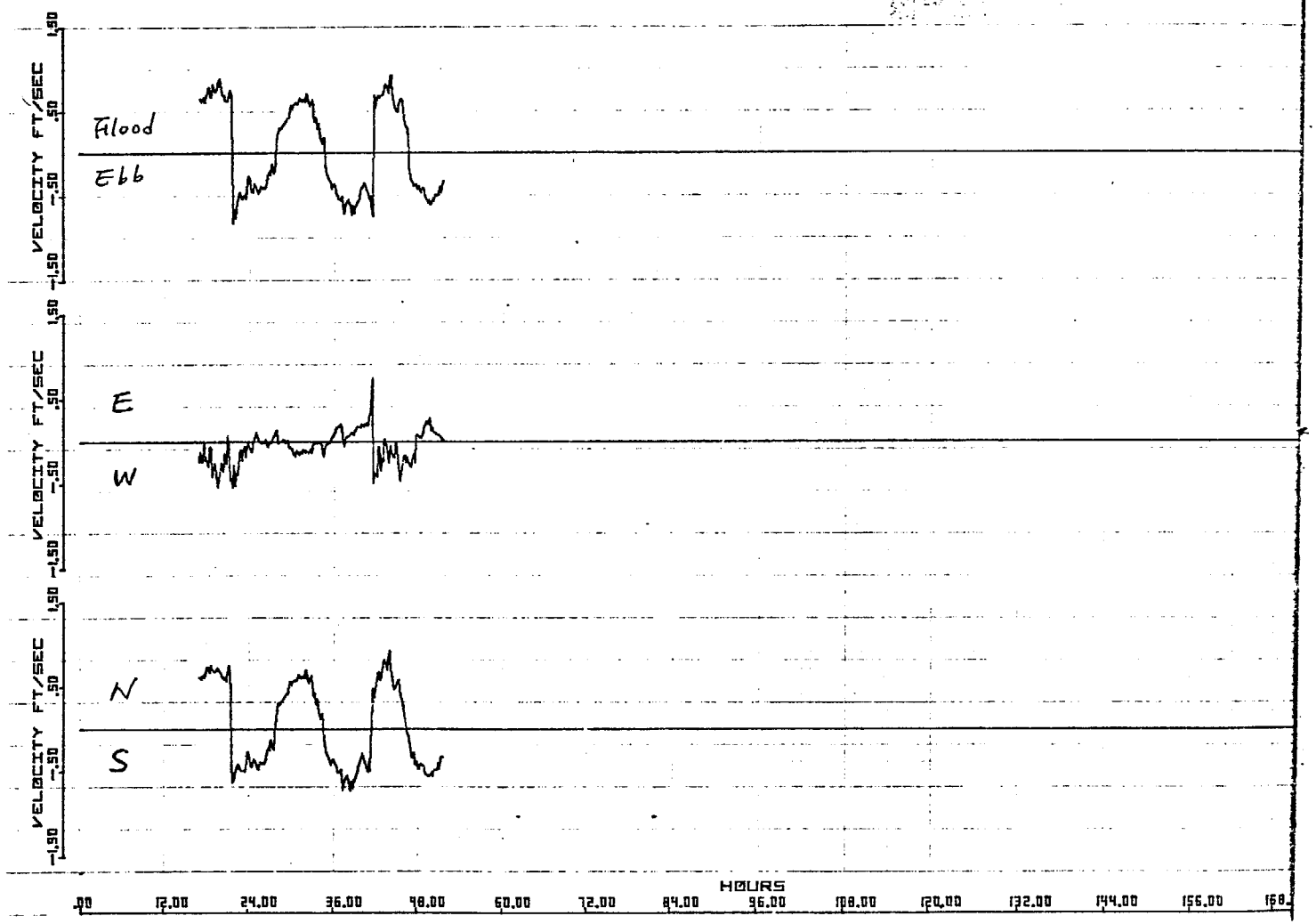


STATION VCB0601, DEPTH = 12.0 FEET



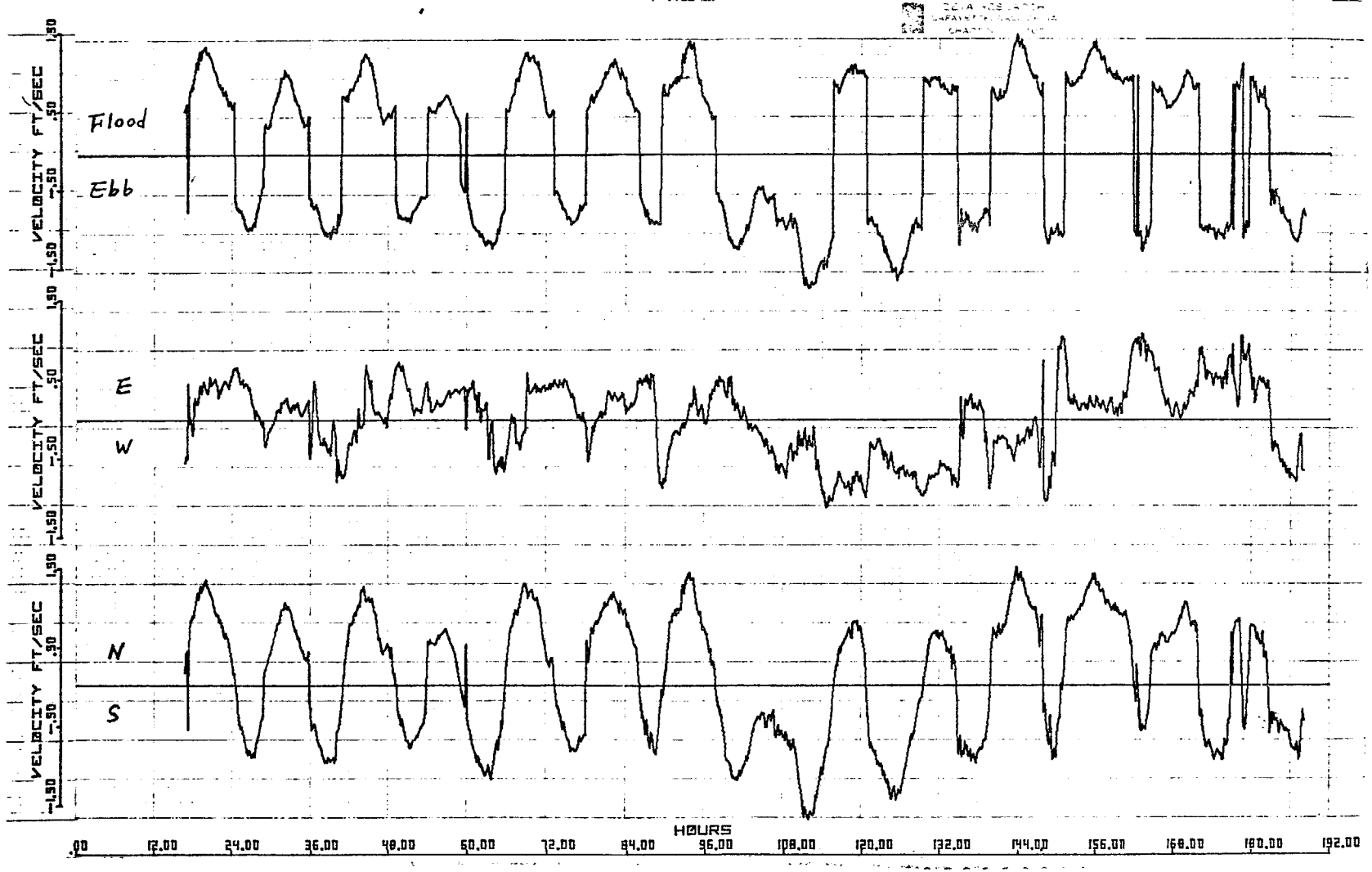
STATION: VCB0601, DEPTH = 20 FEET

FILE:3



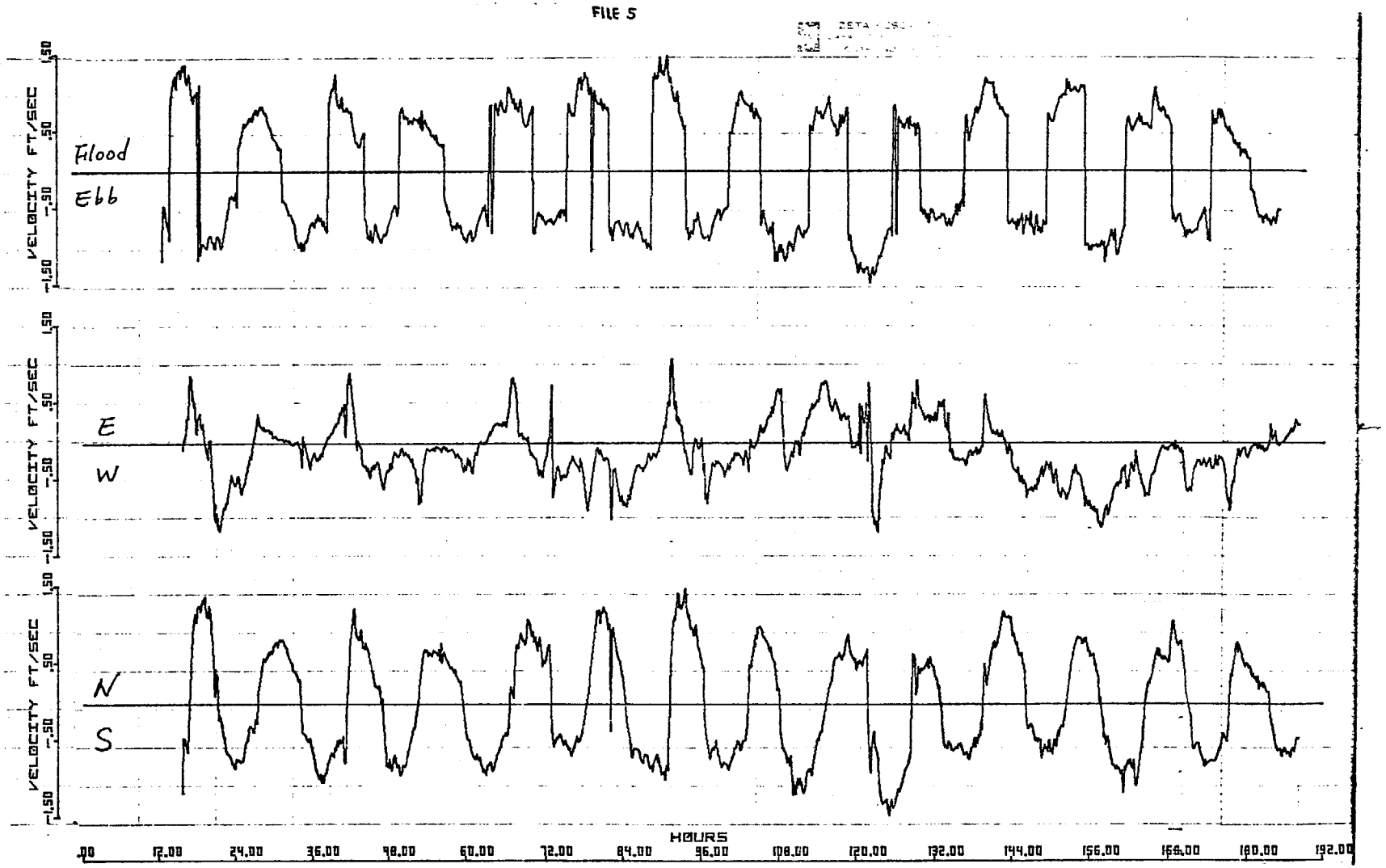
STATION VCB0602: DEPTH = 2.00 FEET.

FILE: 4



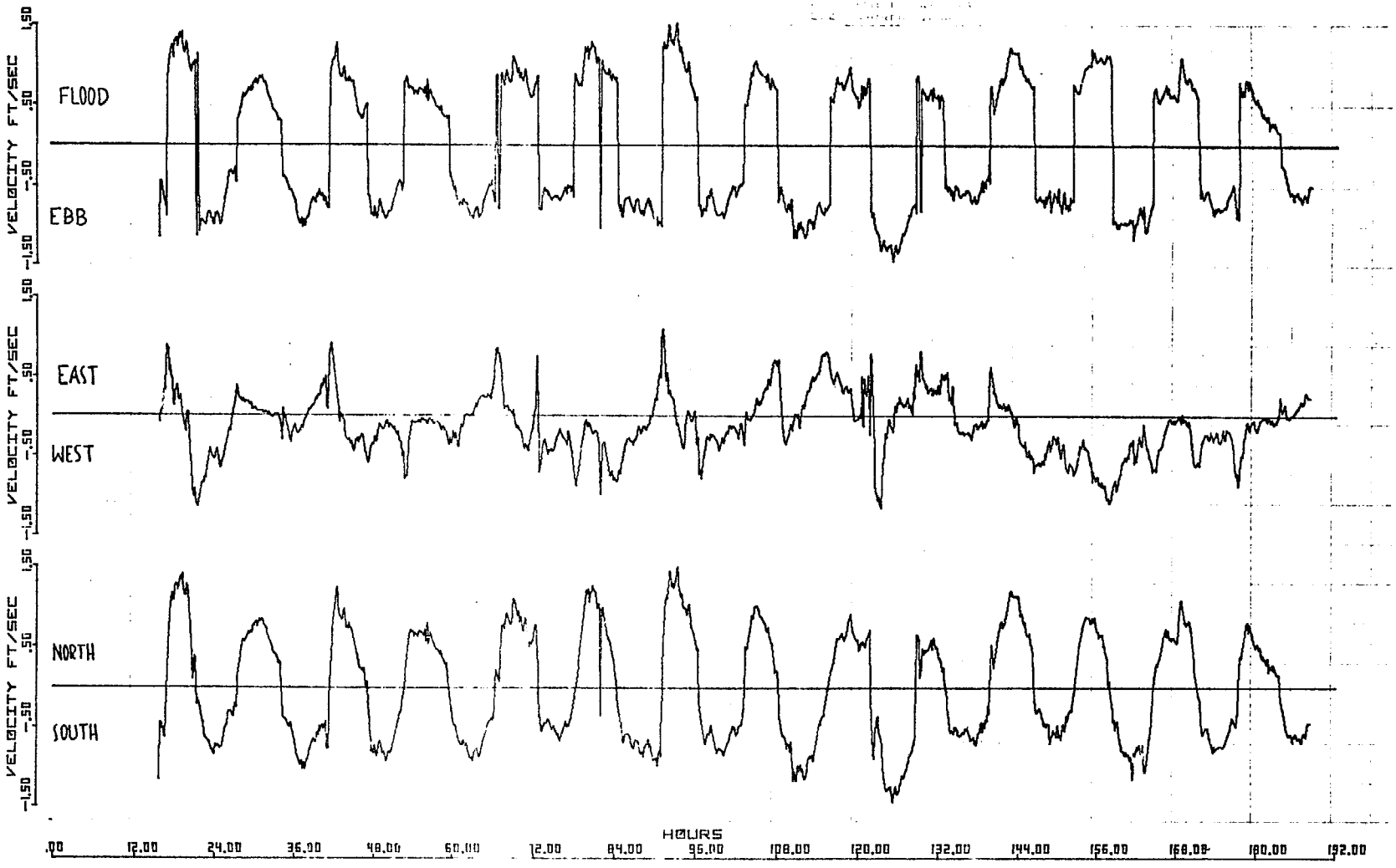
STATION VCB0602: DEPTH = 12.0 FEET

FILE 5



STATION VCB0602 : DEPTH = 18.00 FEET

FILE: 6

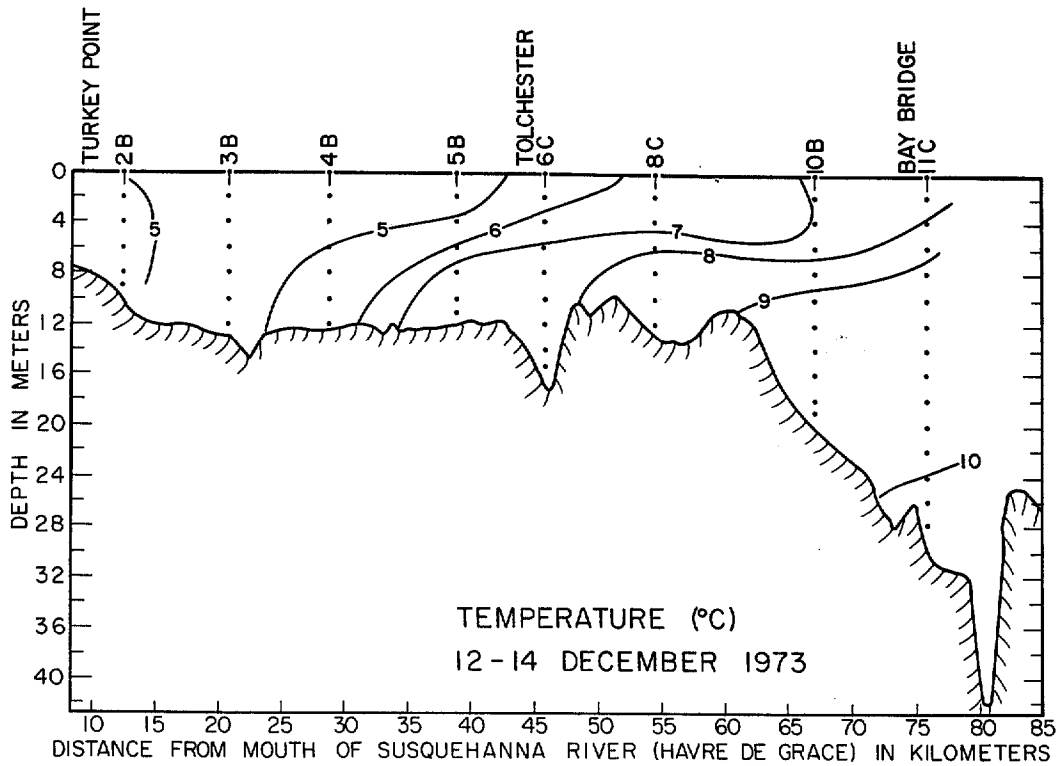


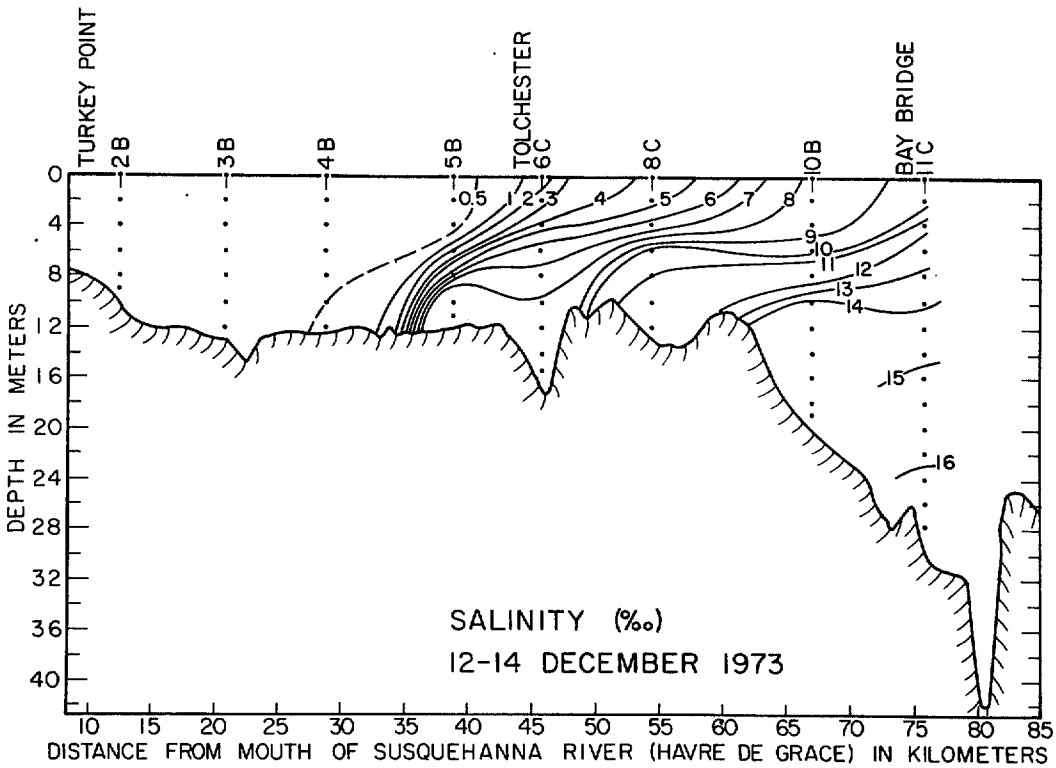
APPENDIX B

SUPPLEMENTARY DATA ON SUSPENDED SEDIMENTS

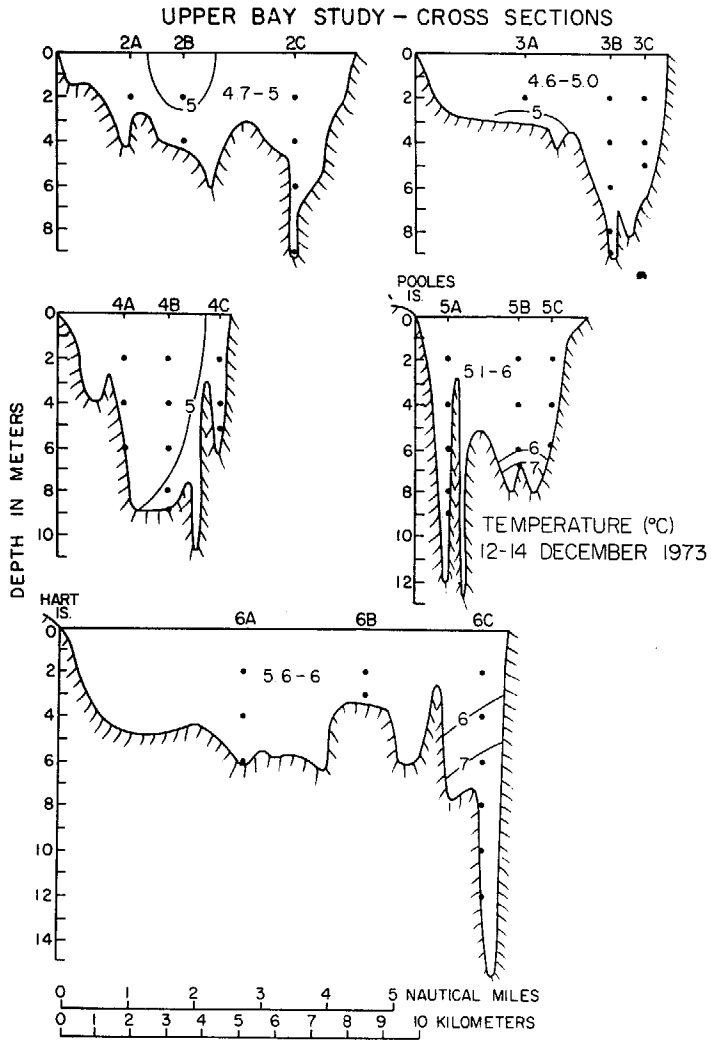
Appendix B supplements Volume II, Chapter 4, Section 4.2, Suspended Sediments by J. R. Schubel and W. B. Cronin. While reference is made to the following pages in Section 4.2, they do not enter directly into the discussion of the text. They are inserted here for that reason and to consolidate this basic data with the other data base infomation in Volume III.

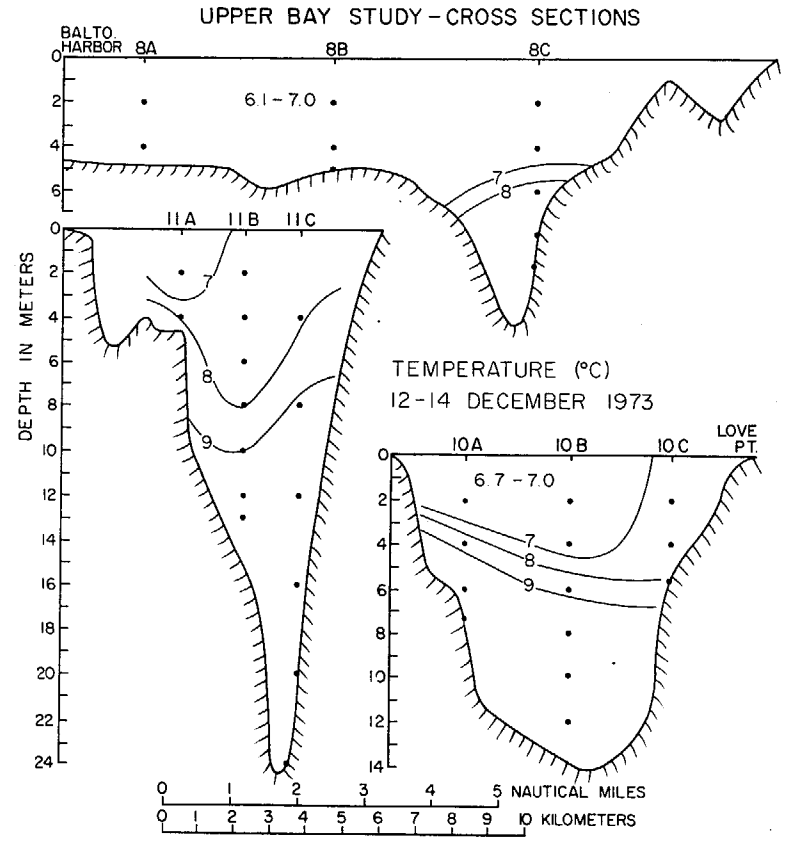
J. R. Schubel
State University of New York
Stoney Brook, N.Y.
(Formerly of The Johns Hopkins University)



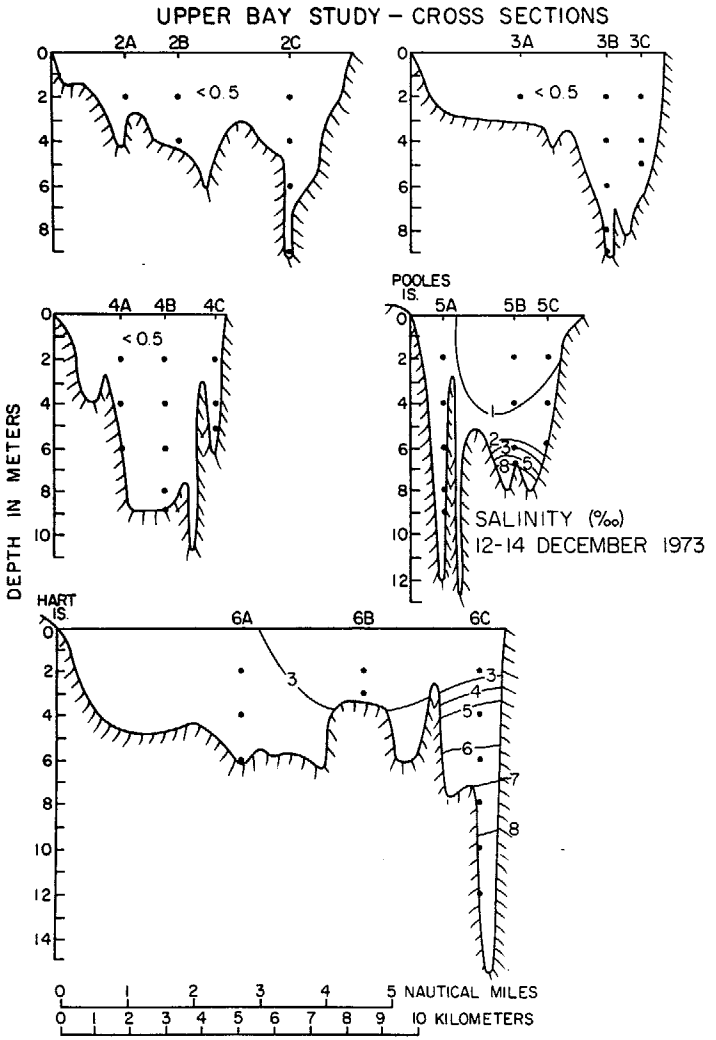


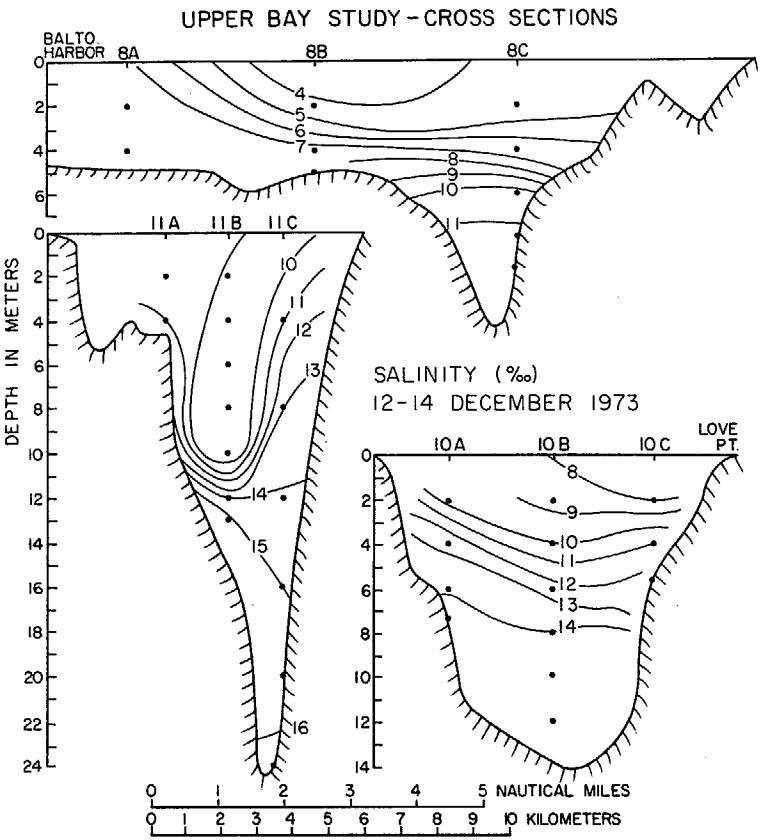
Longitudinal Distributions of Temperature and Salinity Along The Axis Of The Upper Bay December 12 through 14, 1973.



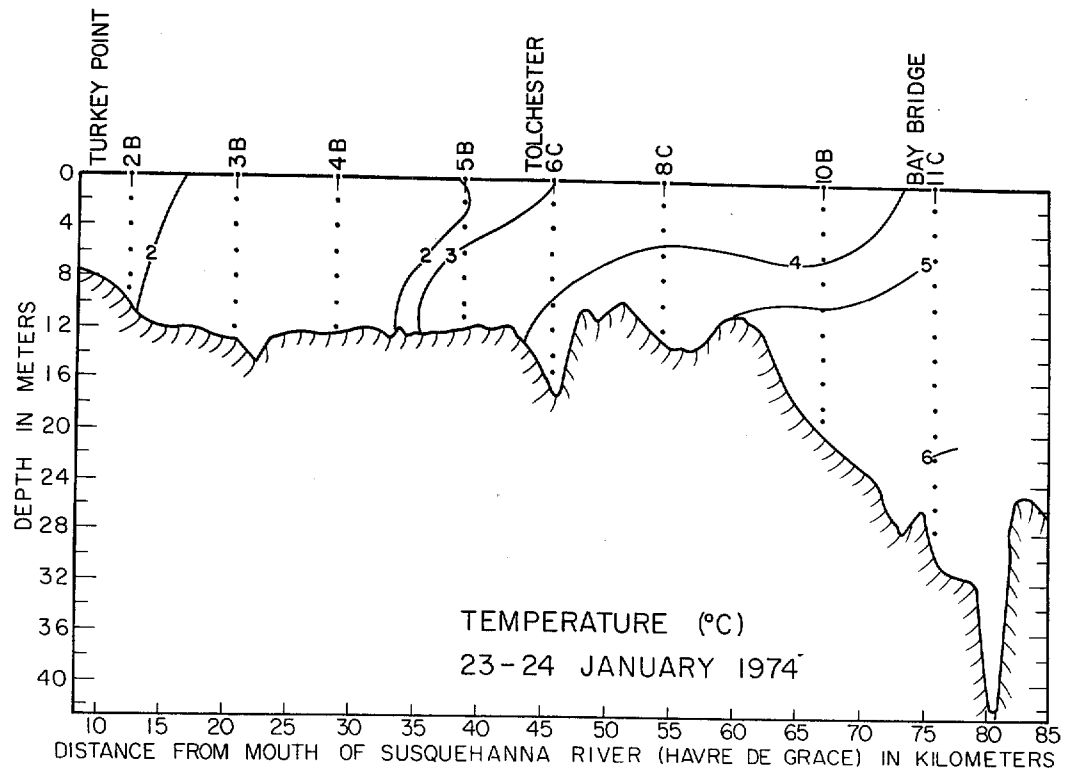


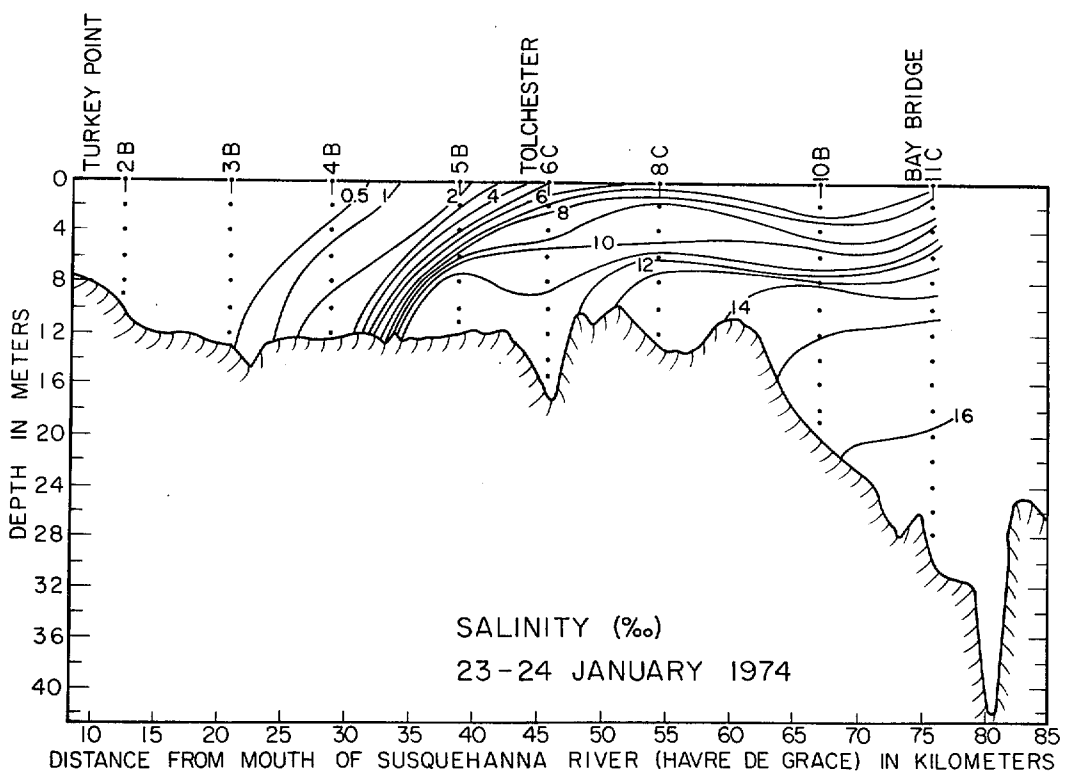
Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay Between December 12 And 14, 1973.



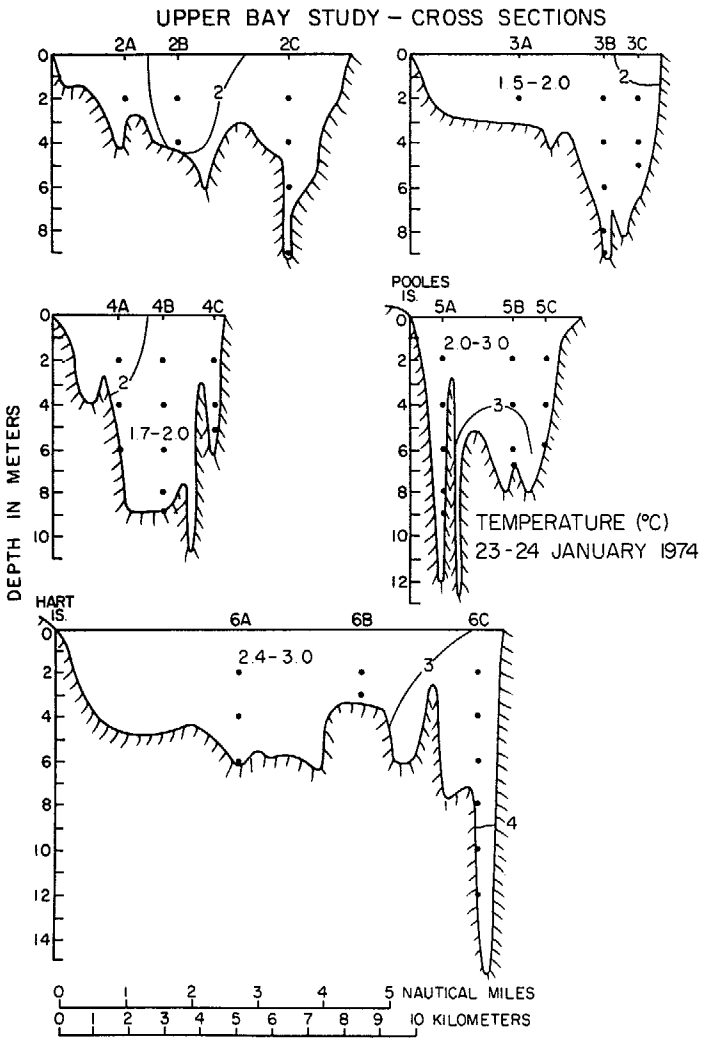


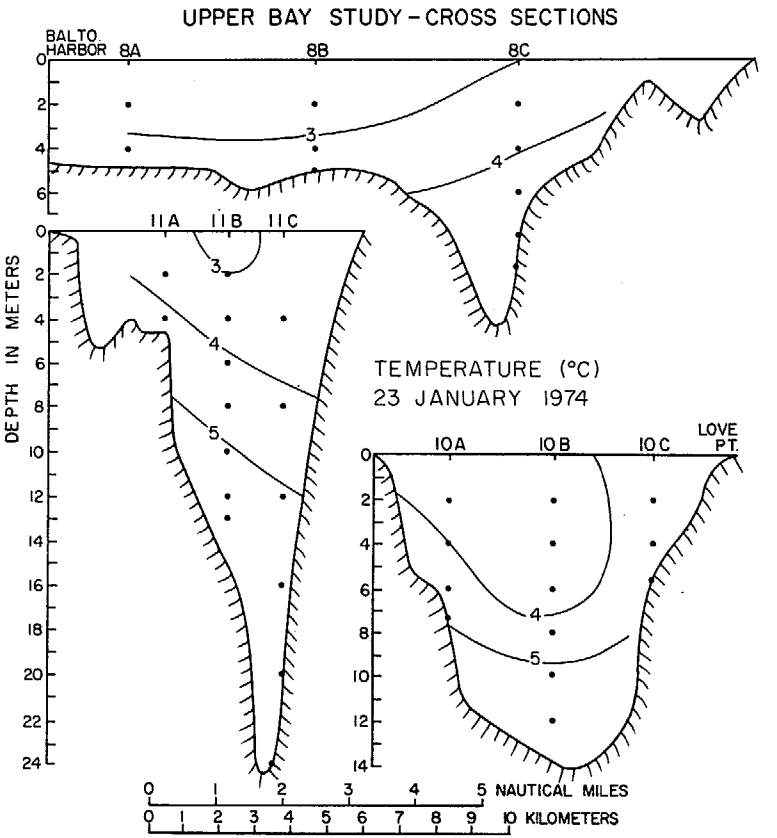
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay December 12 Through 14, 1973.



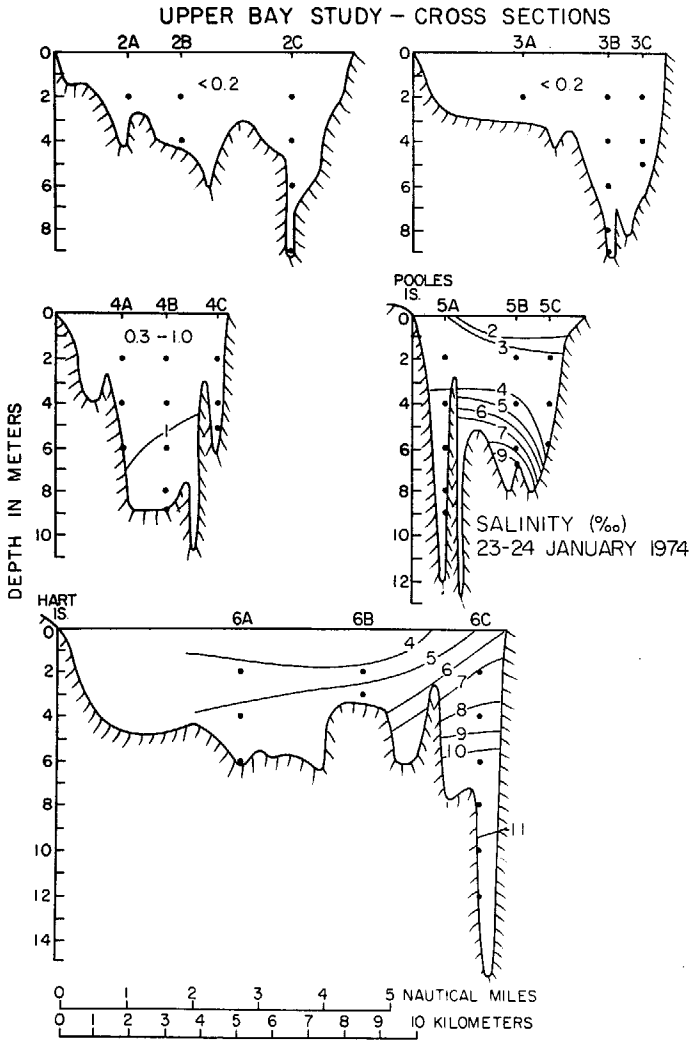


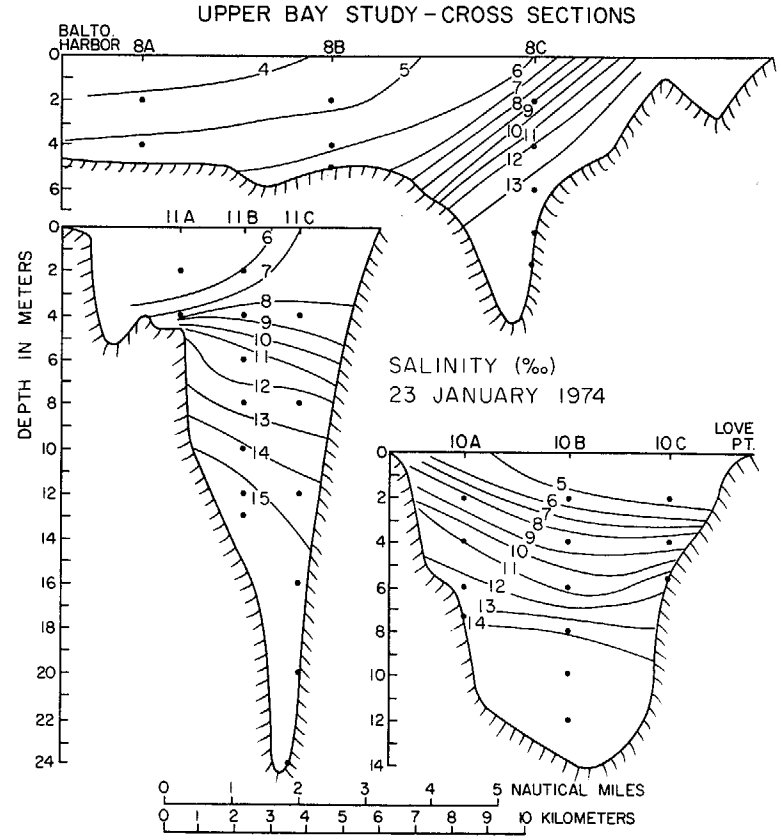
Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay January 23 And 24, 1974.



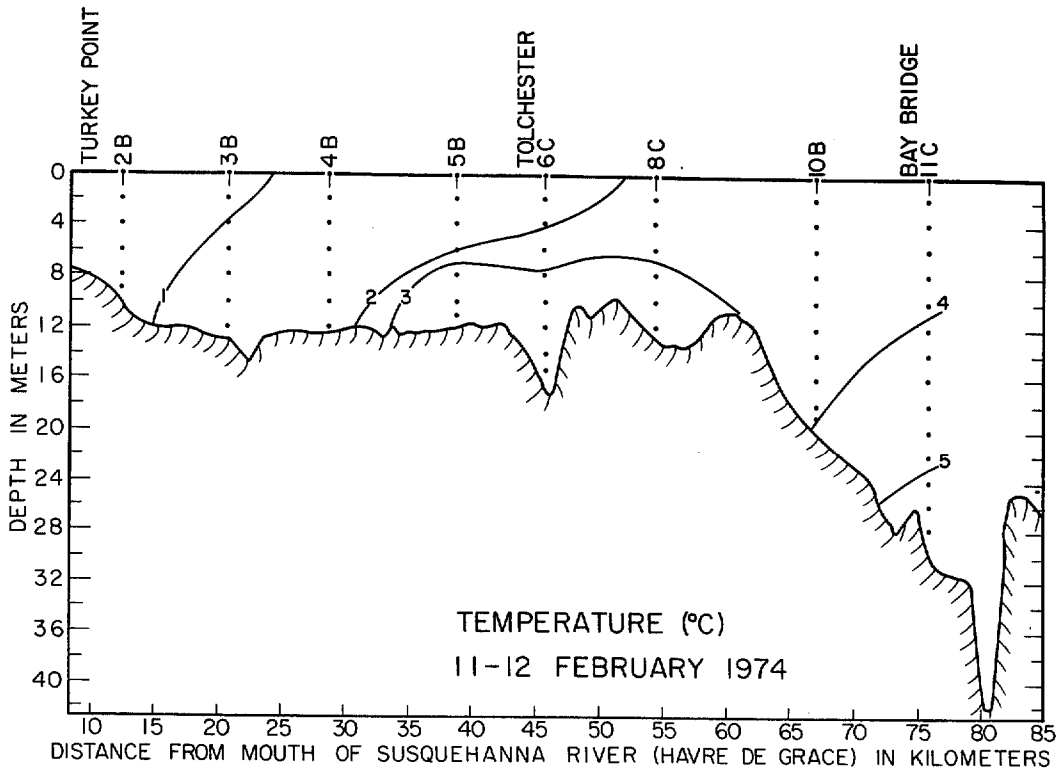


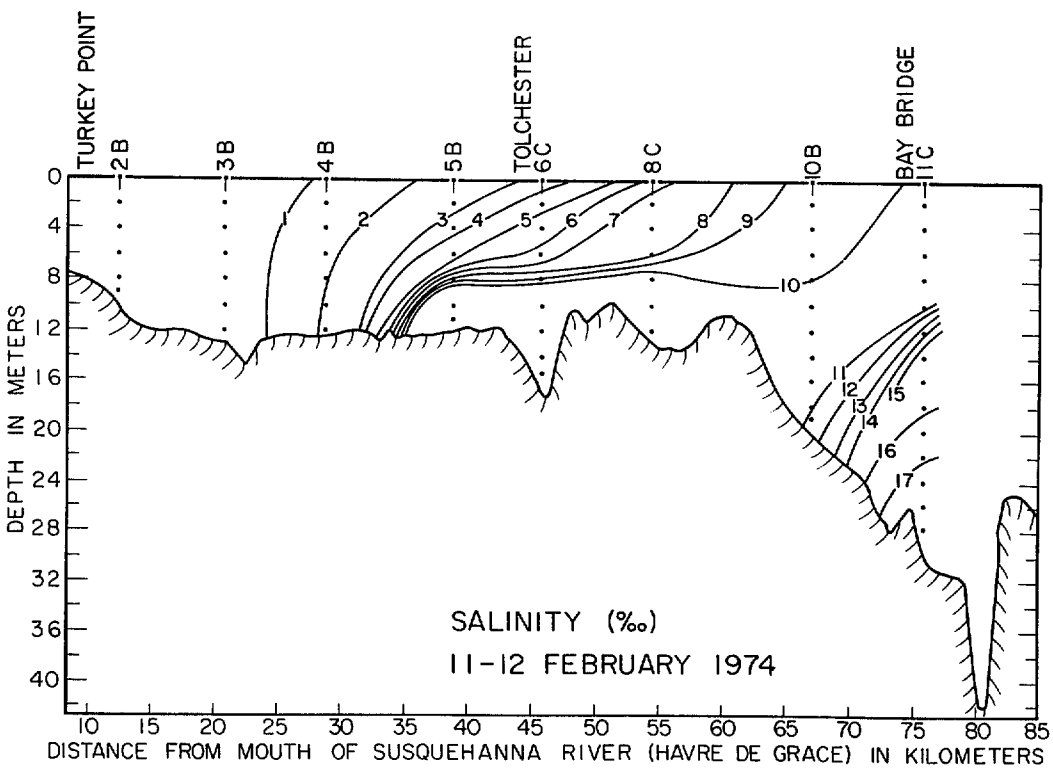
Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay January 23 and 24, 1974.



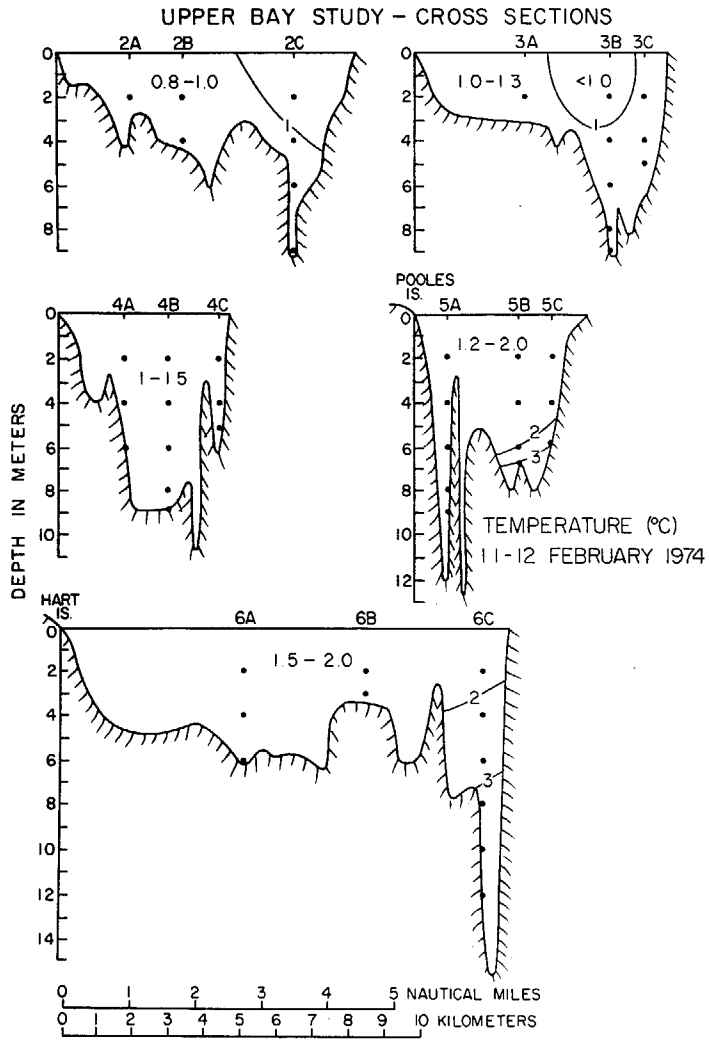


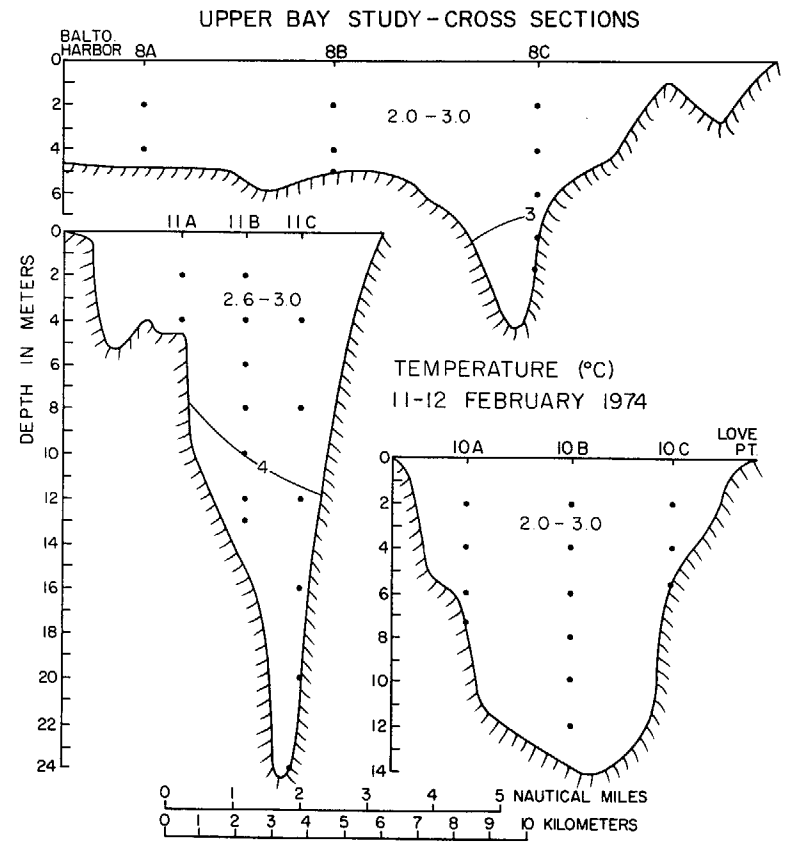
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay January 23 And 24, 1974.



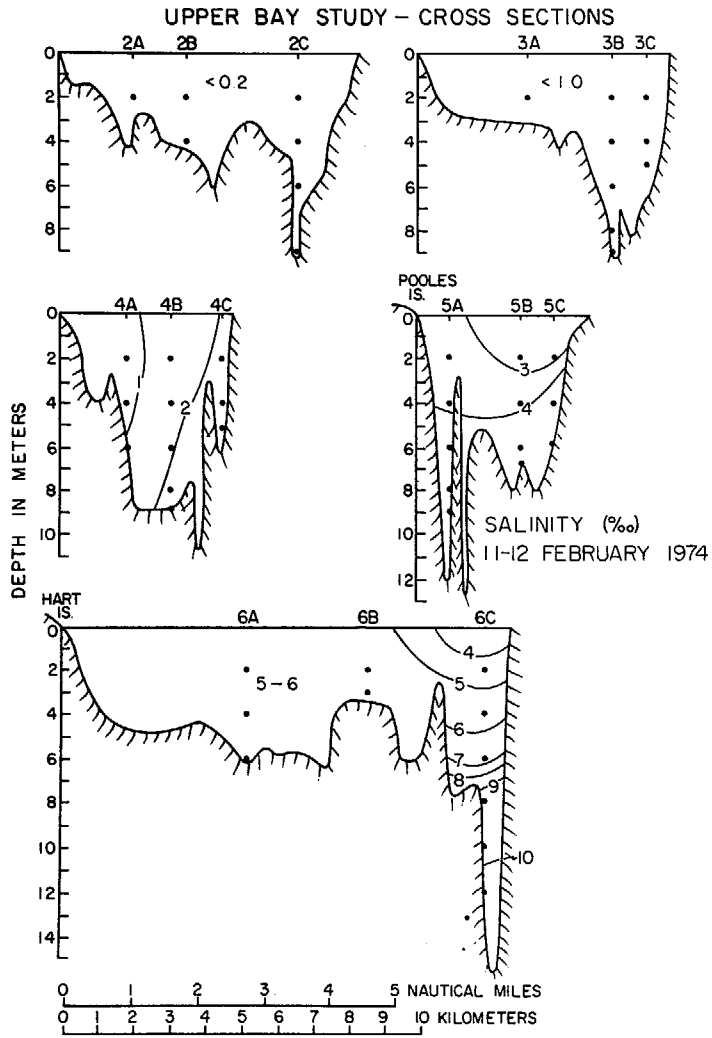


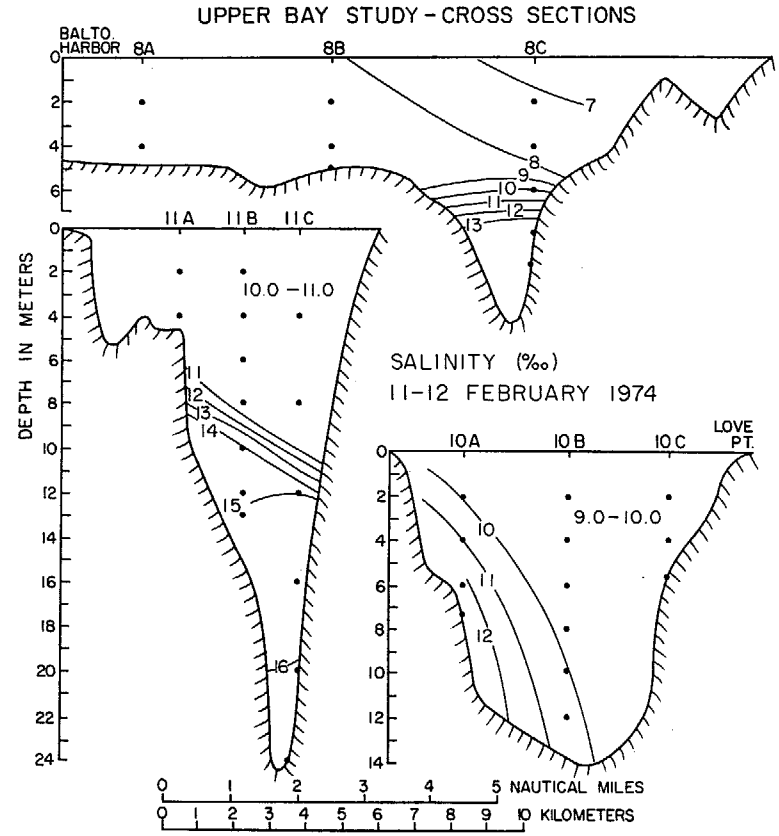
Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay February 11 and 12, 1974.



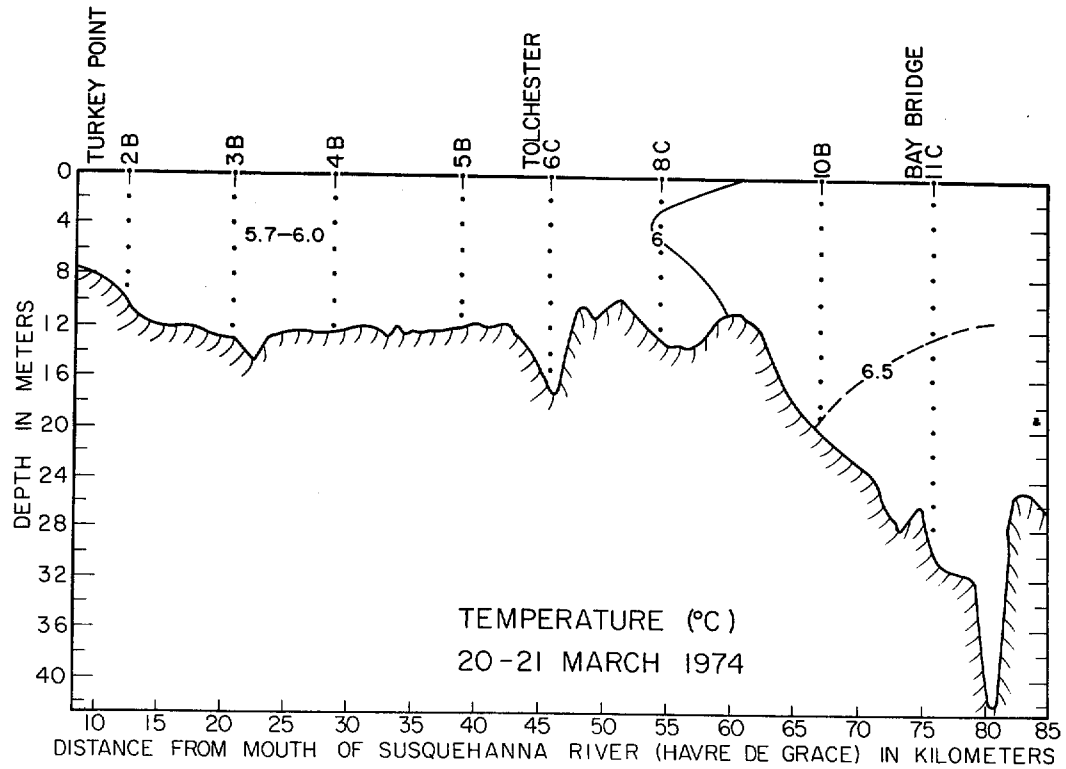


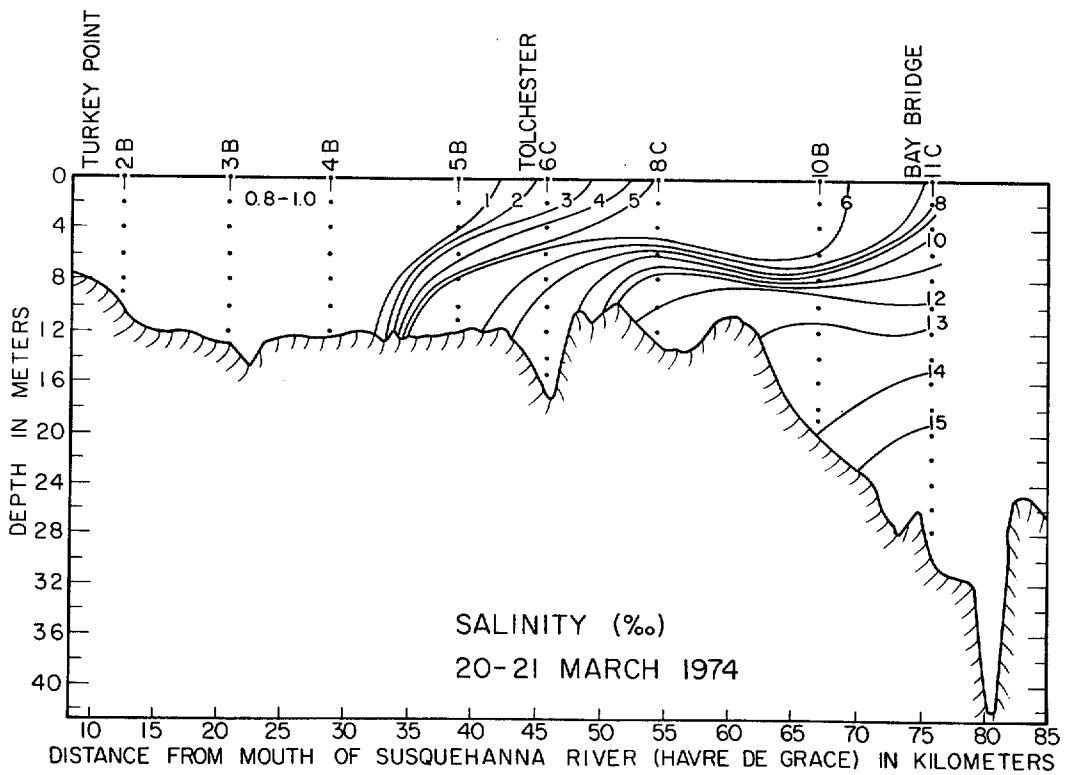
Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay February 11 and 12, 1974.



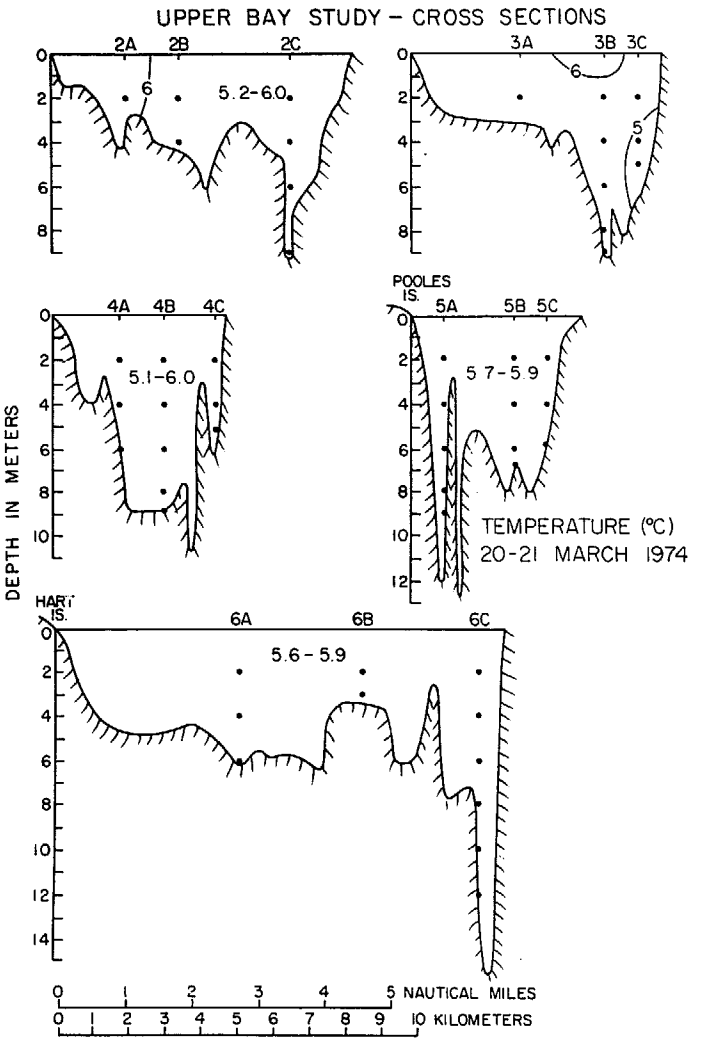


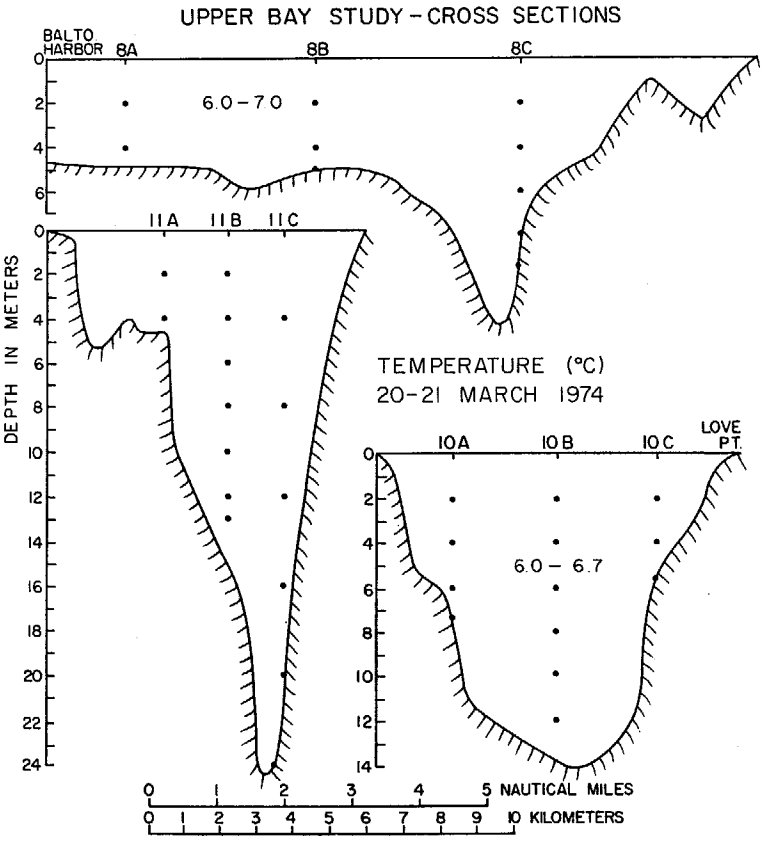
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay Between February 11 And 12, 1974.



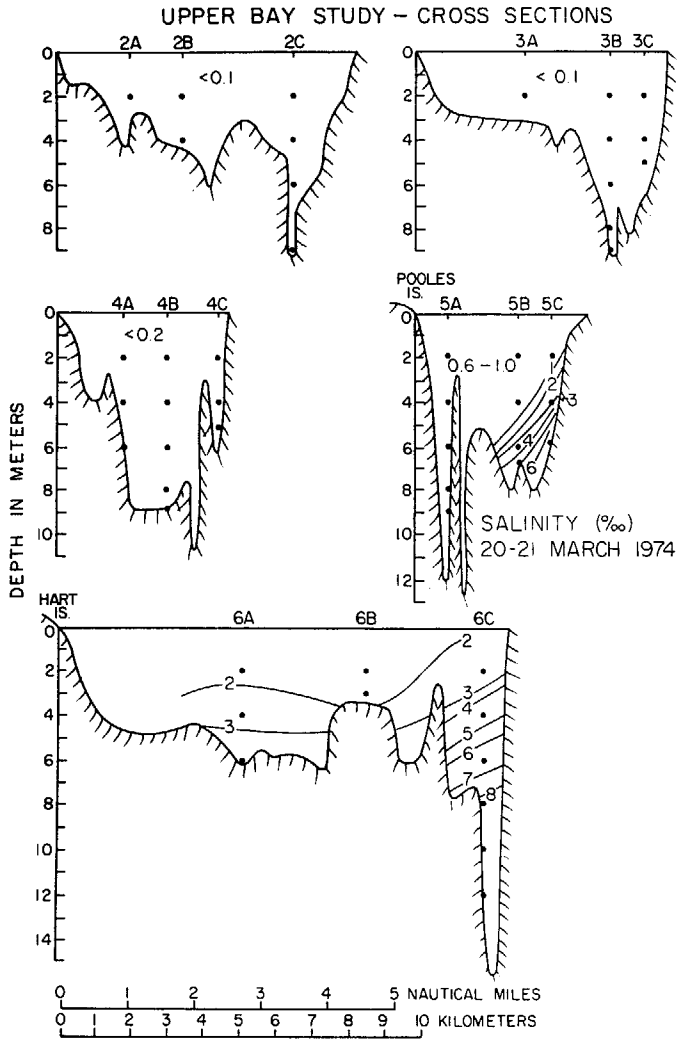


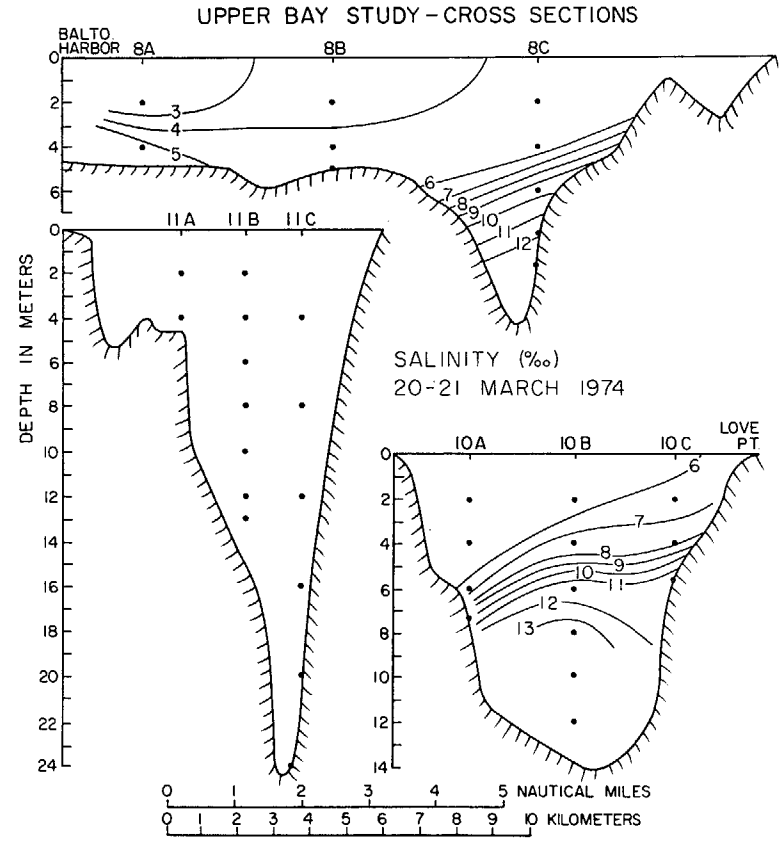
Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay March 20 And 21, 1974.



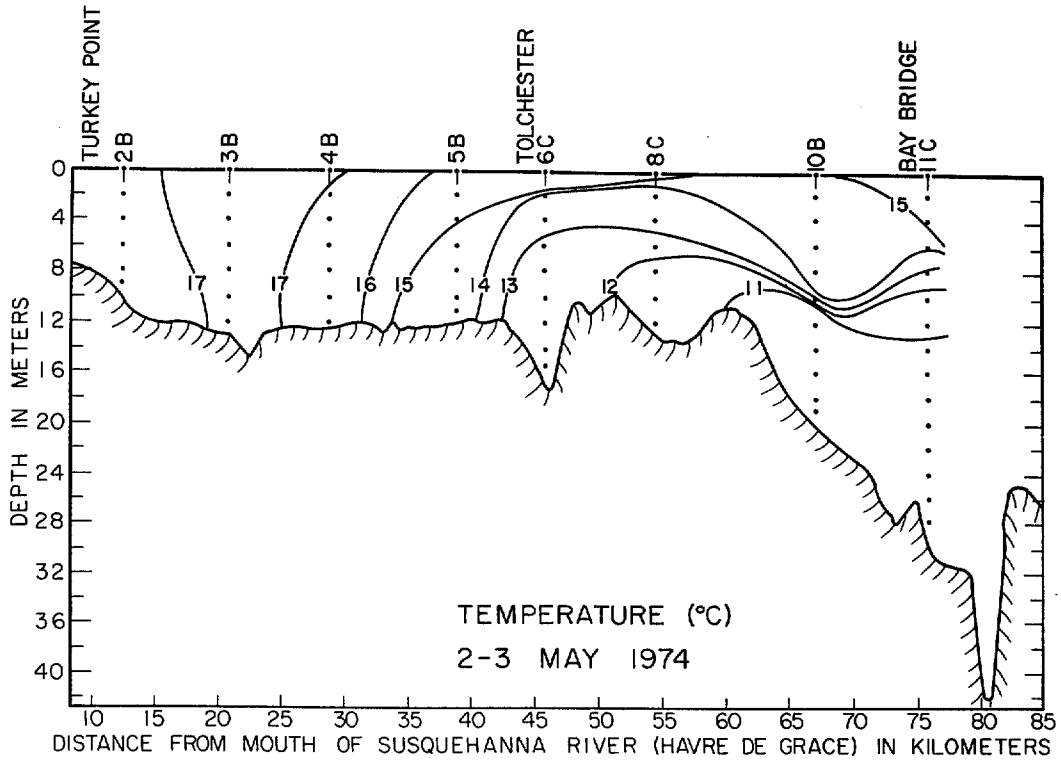


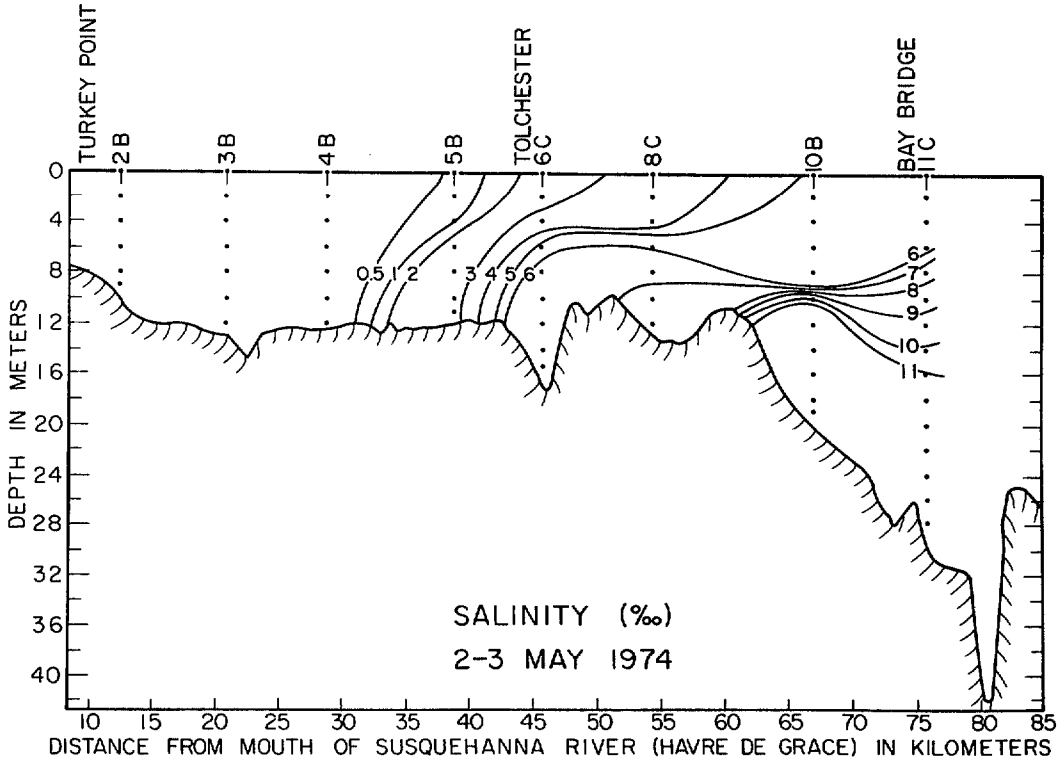
Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay March 20 And 21, 1974.



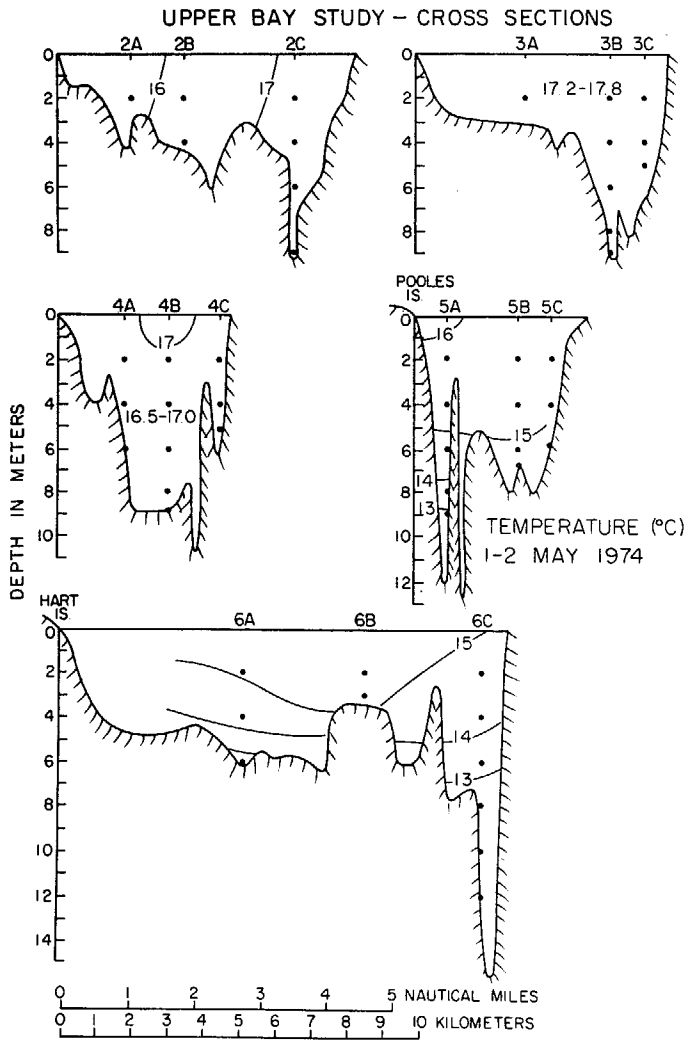


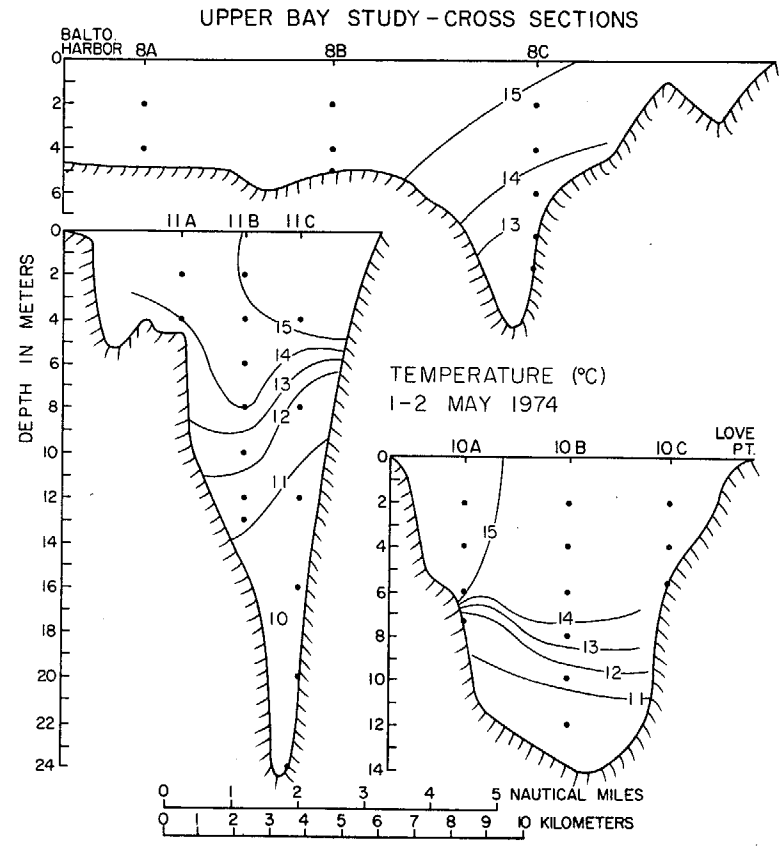
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay March 20 And 21, 1974.



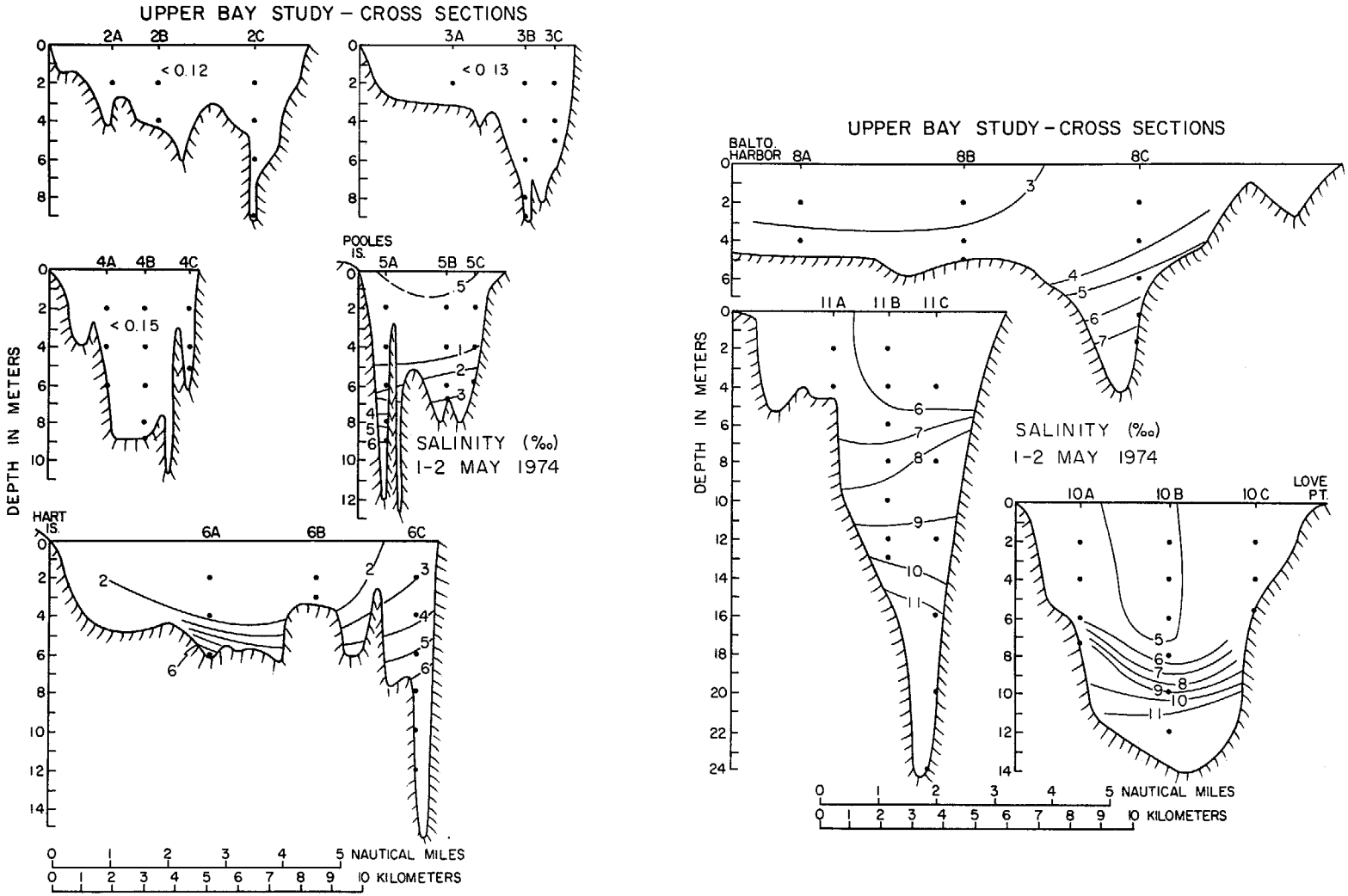


Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay May 2 And 3, 1974.

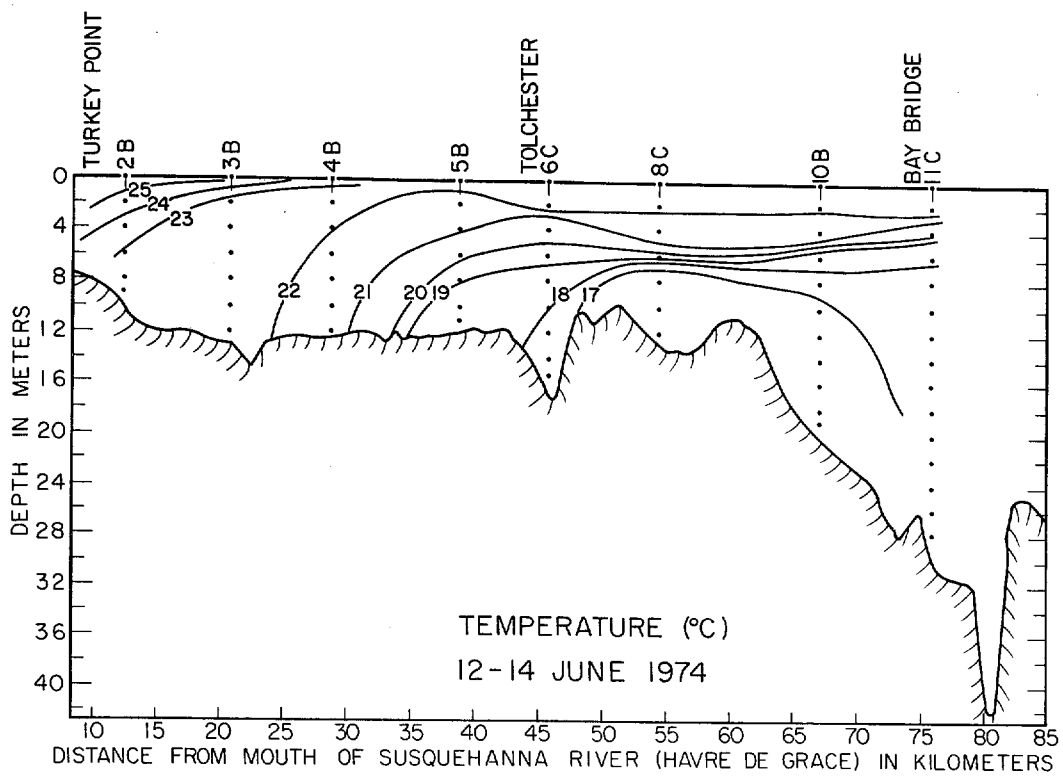


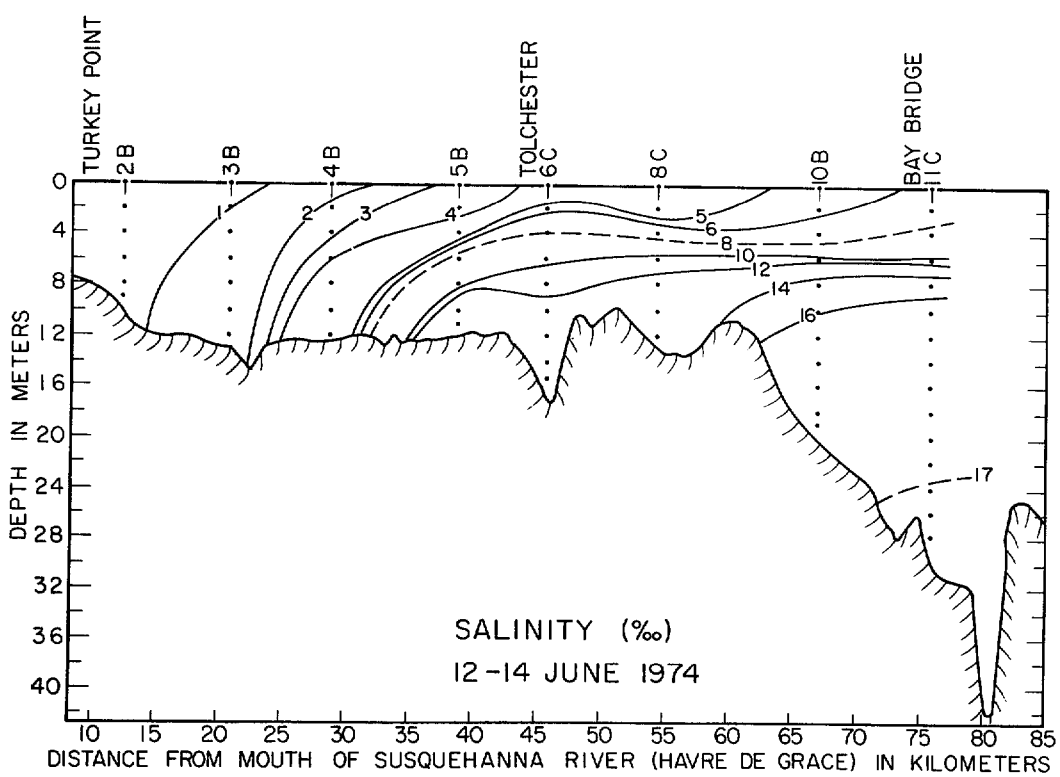


Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay May 2 And 3, 1974.

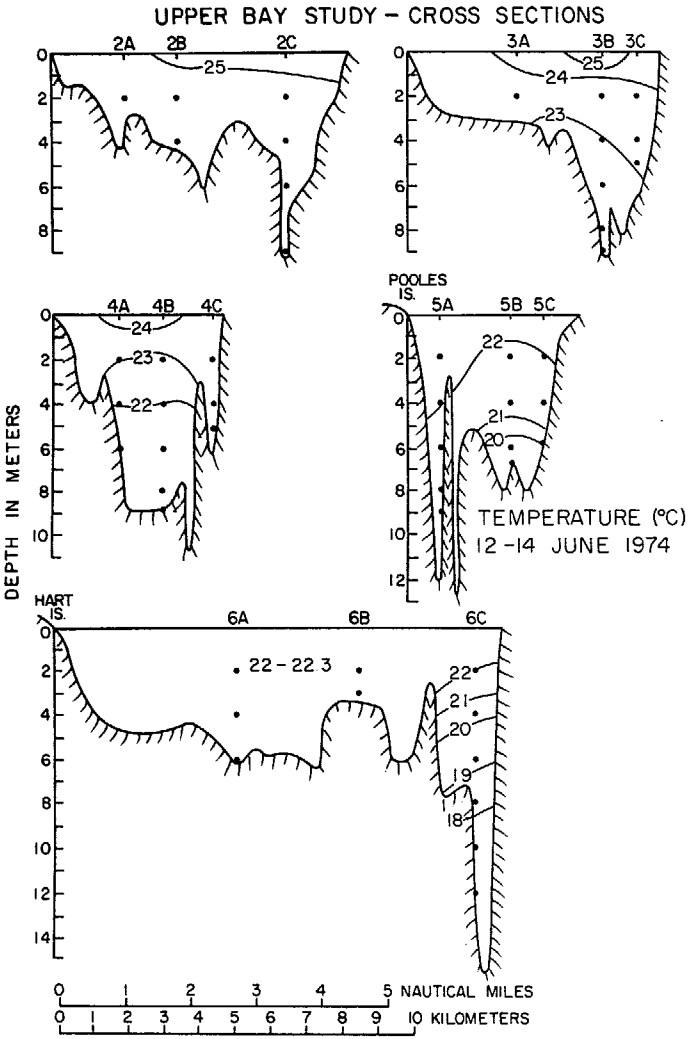


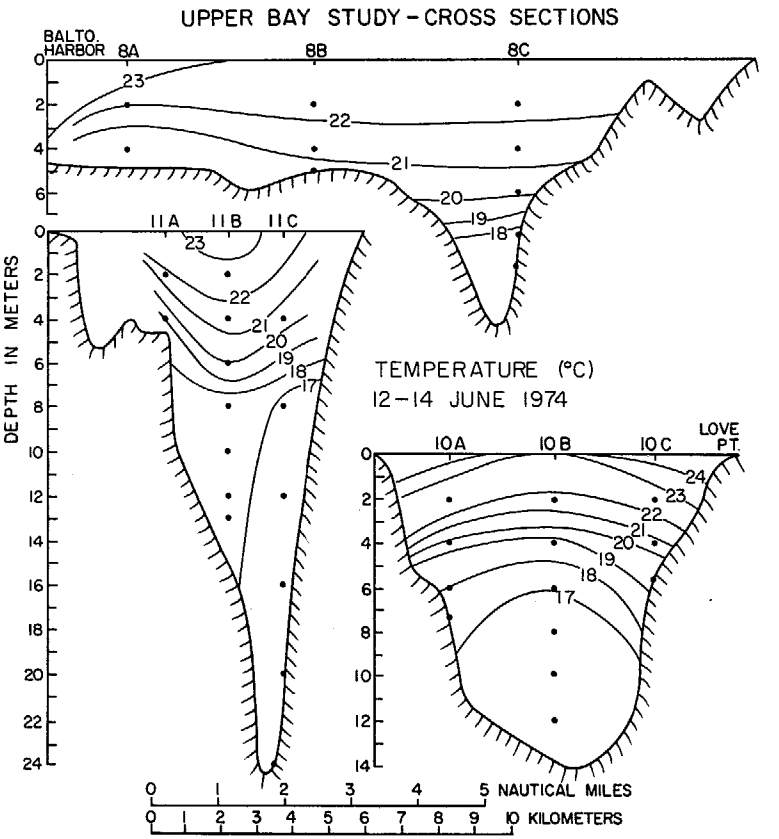
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay May 2 And 3, 1974.



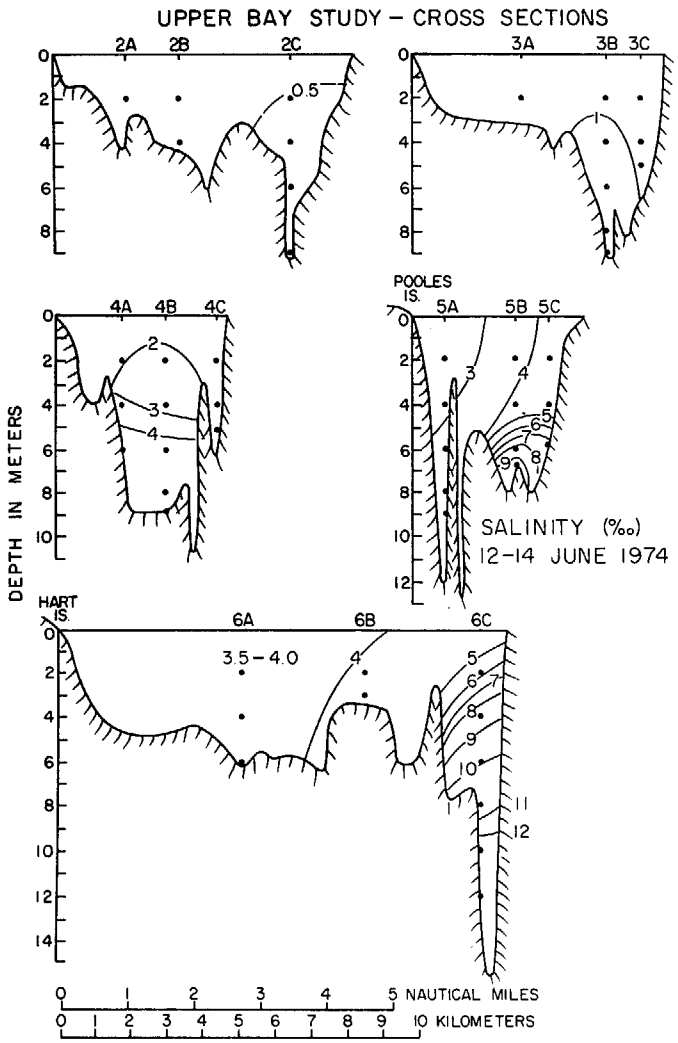


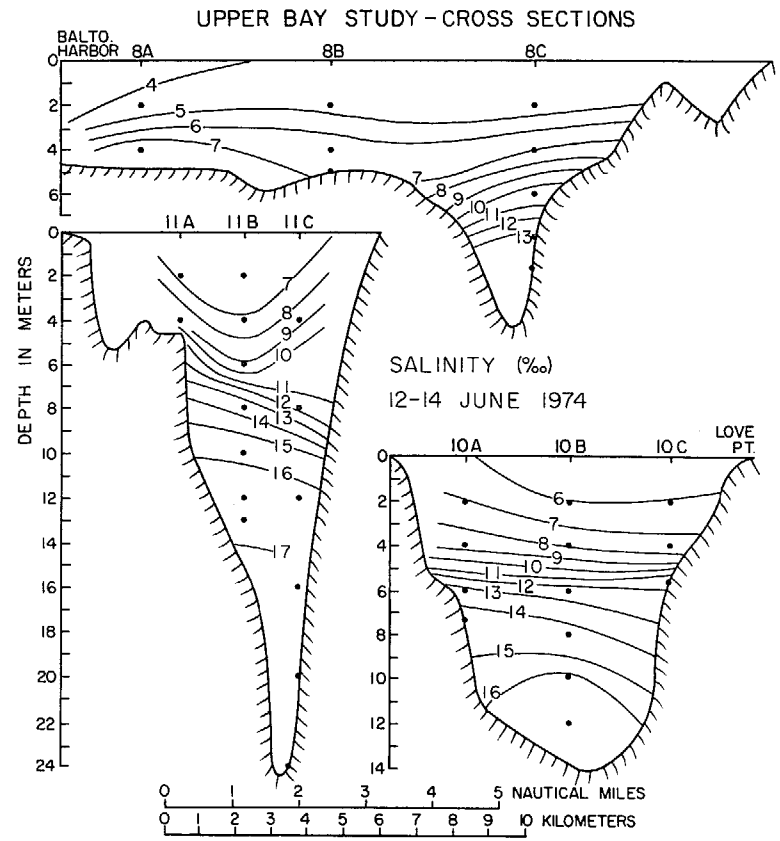
Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay June 12 Through 14, 1974.





Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay June 12 Through 14, 1974.





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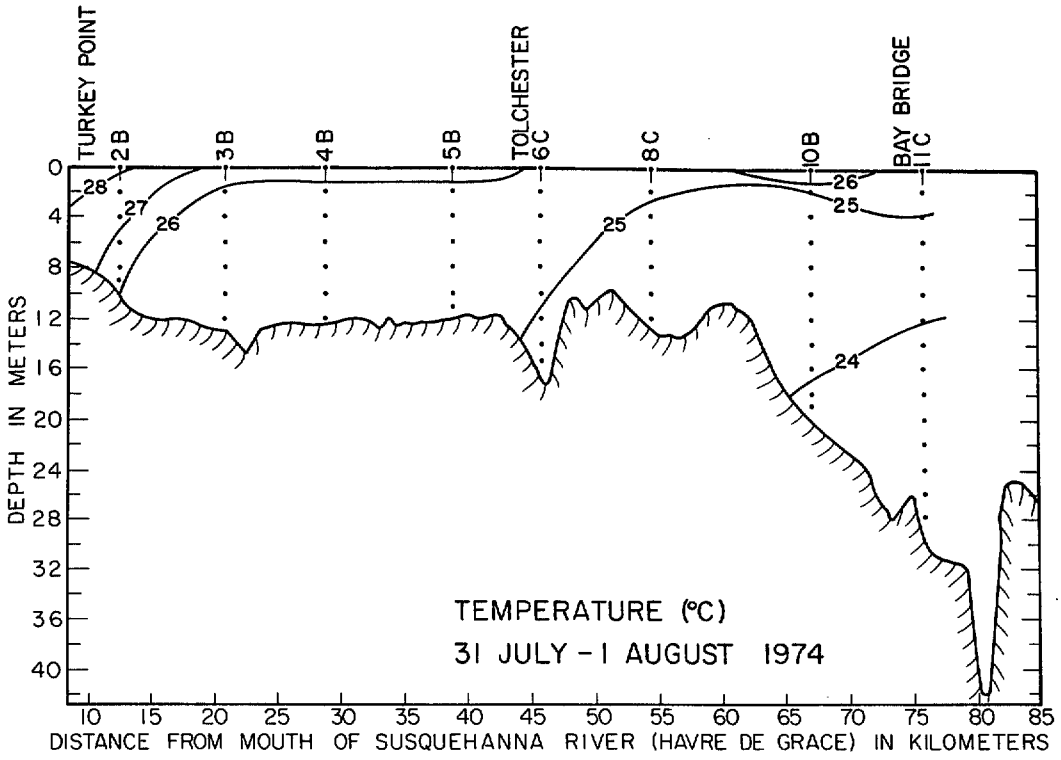
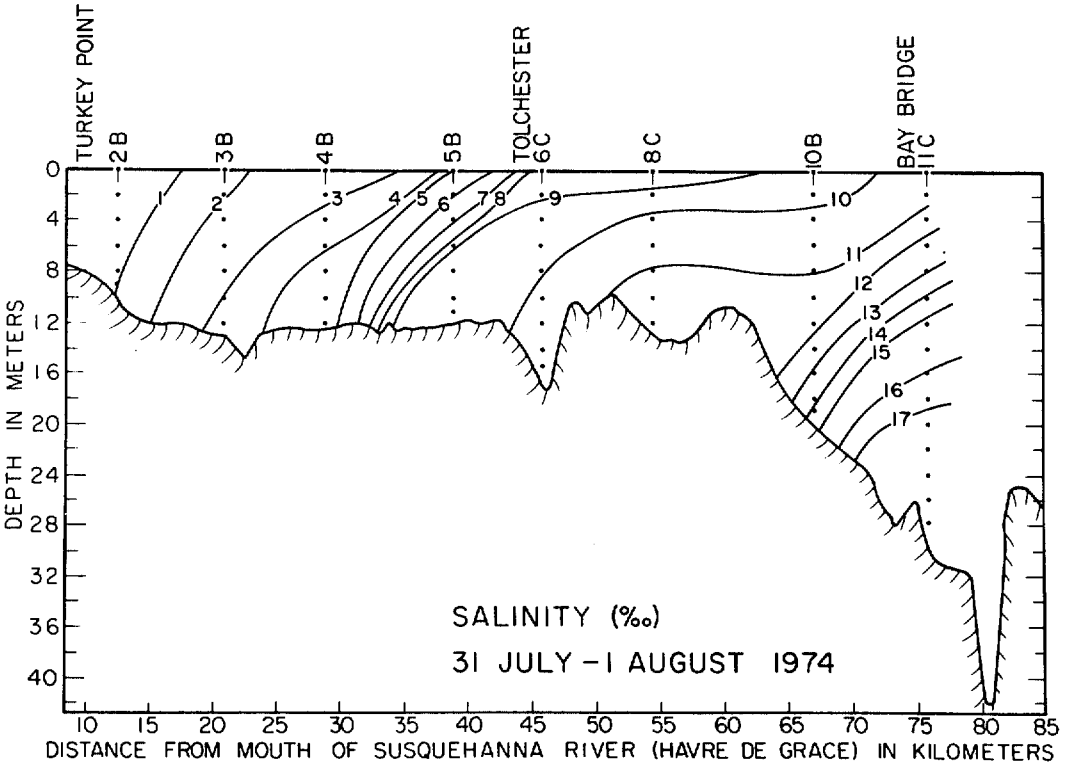
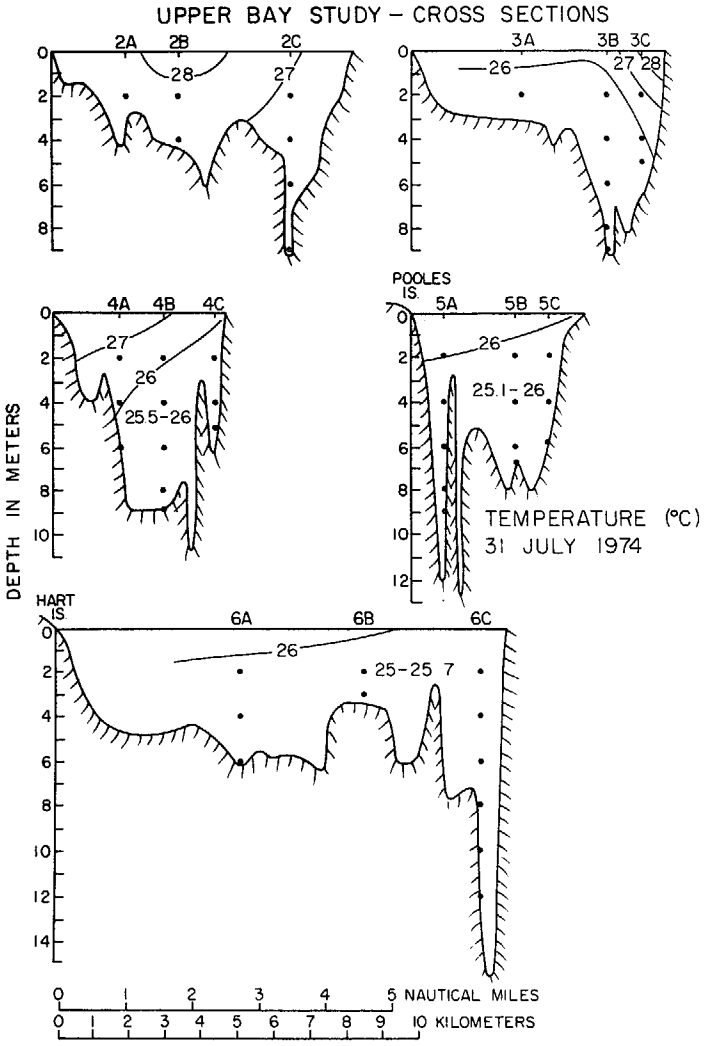
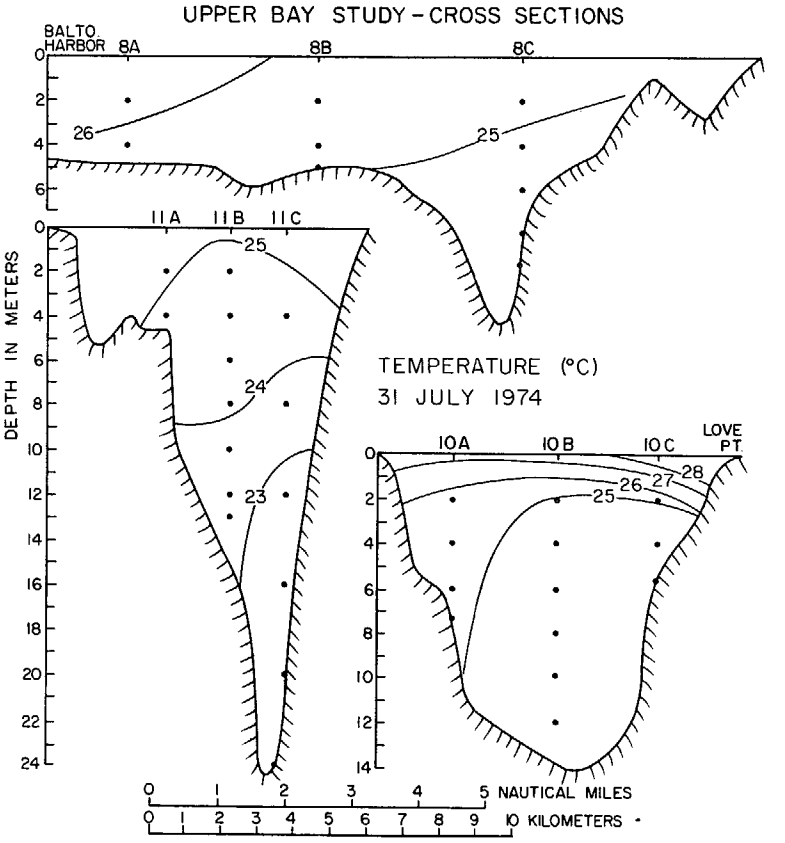


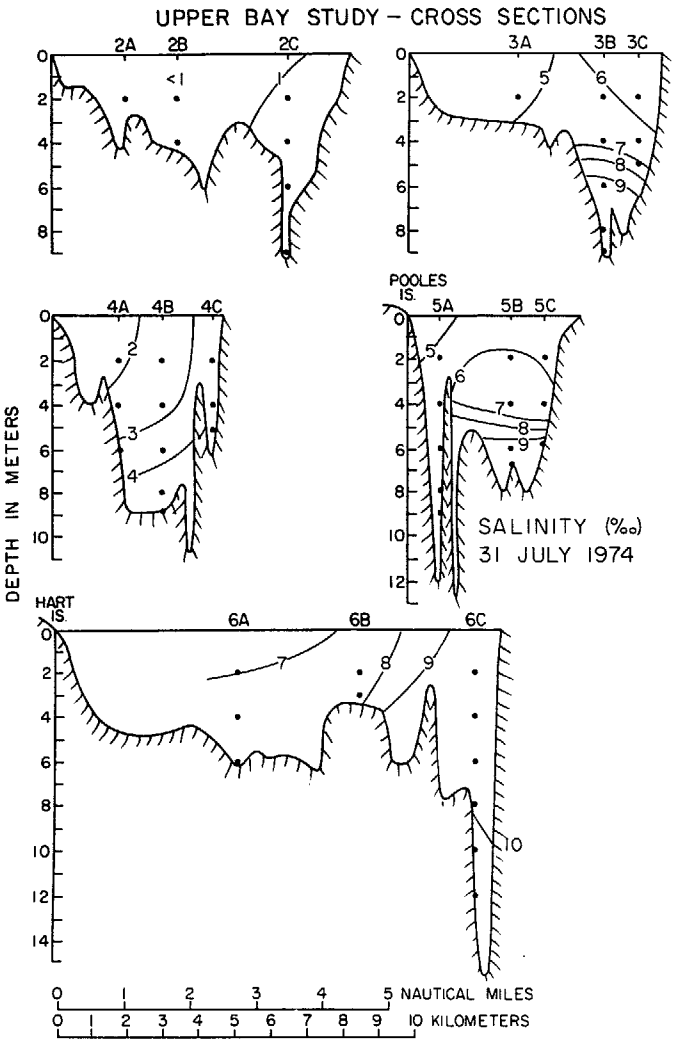


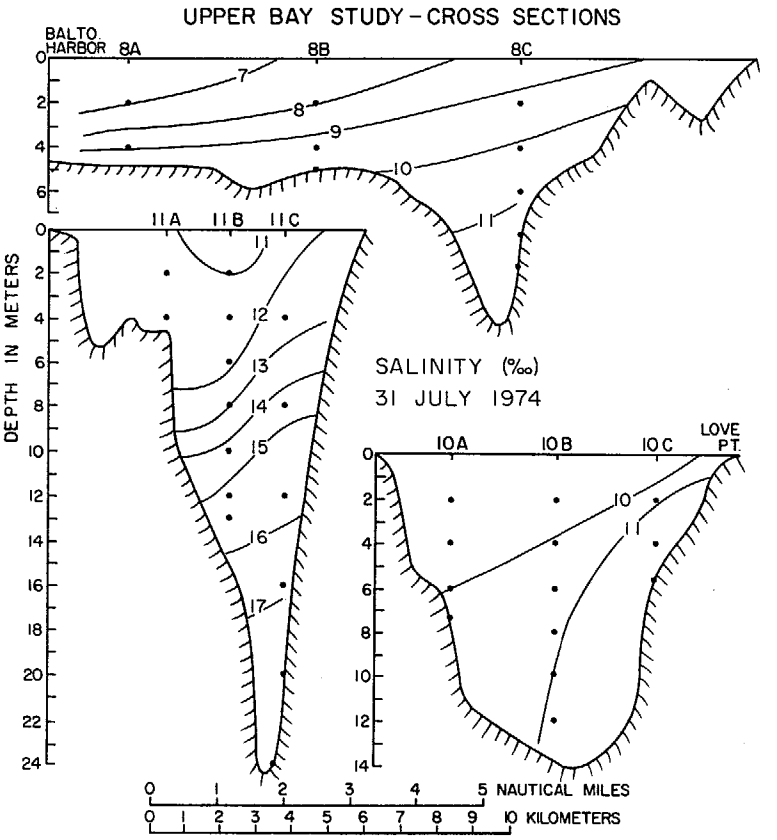
Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay July 31 And August 1, 1974.





Lateral Distributions Of Temperature On Selected Cross-Sections Of The Upper Bay July 31 And August 1, 1974.





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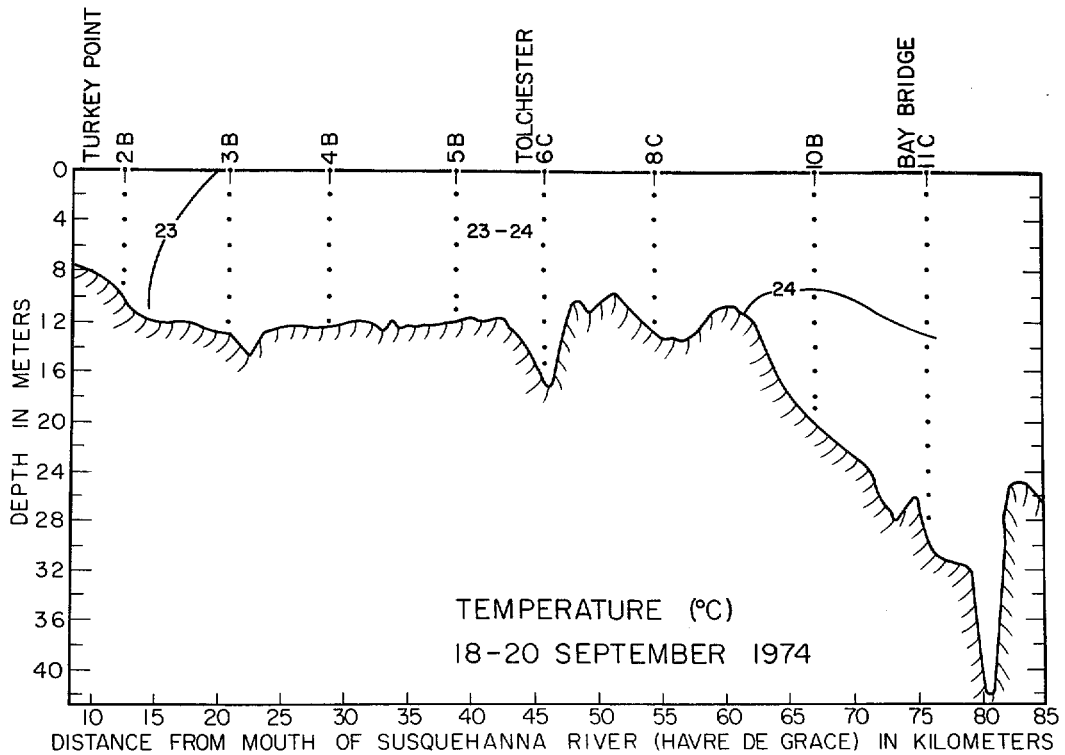
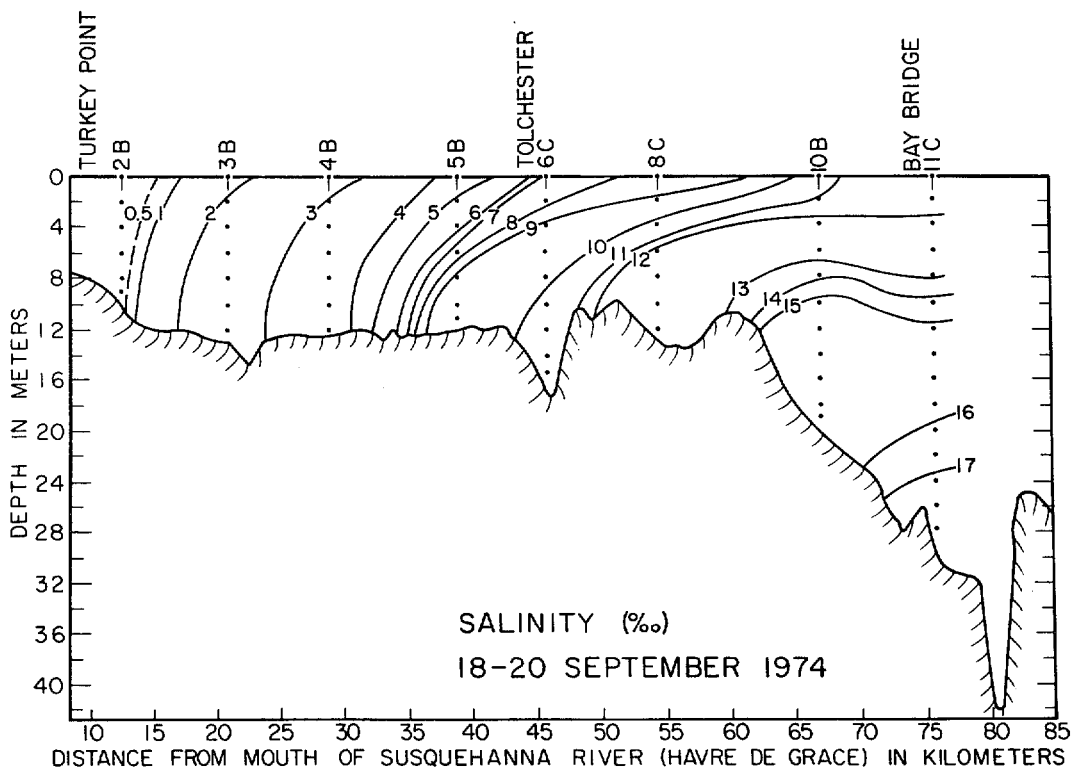
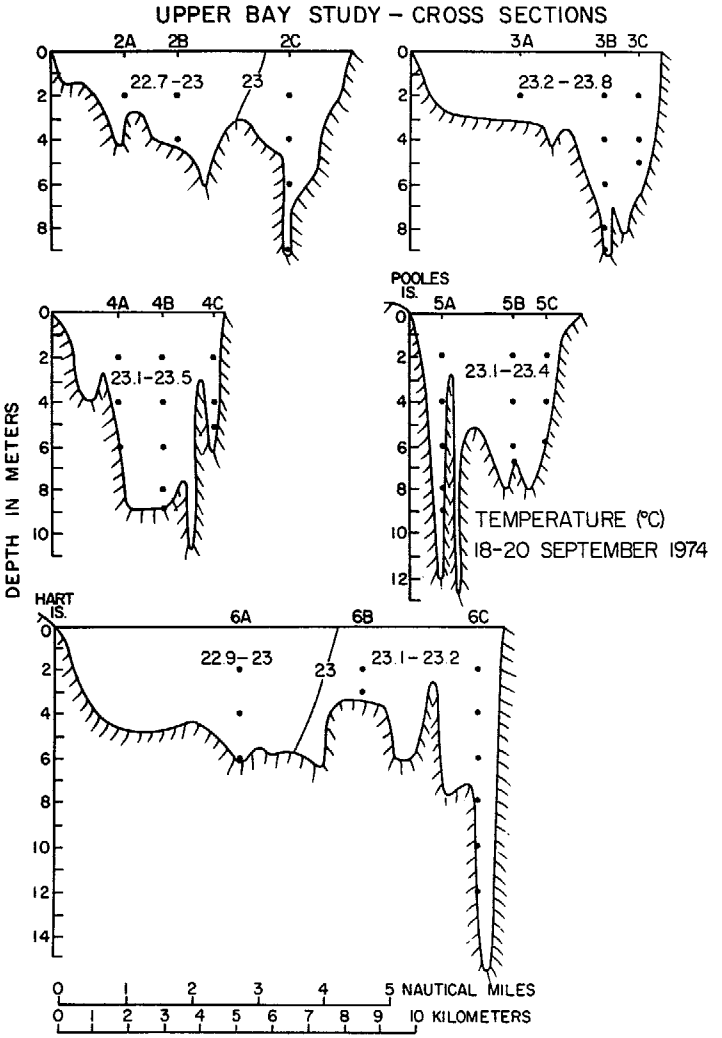
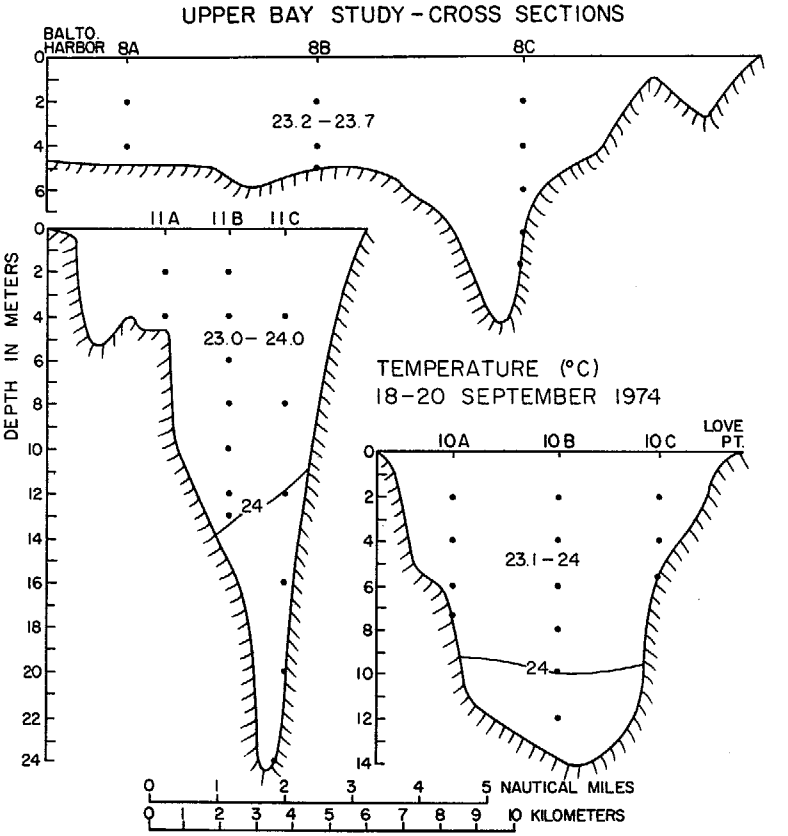




Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay September 18 Through 20, 1974.





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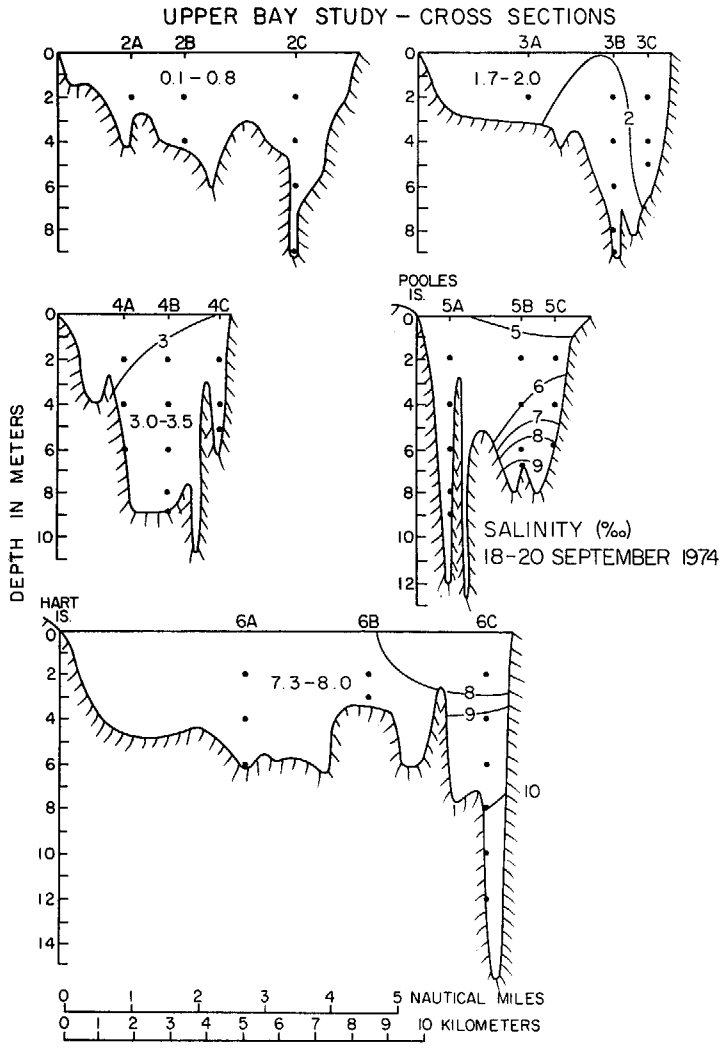
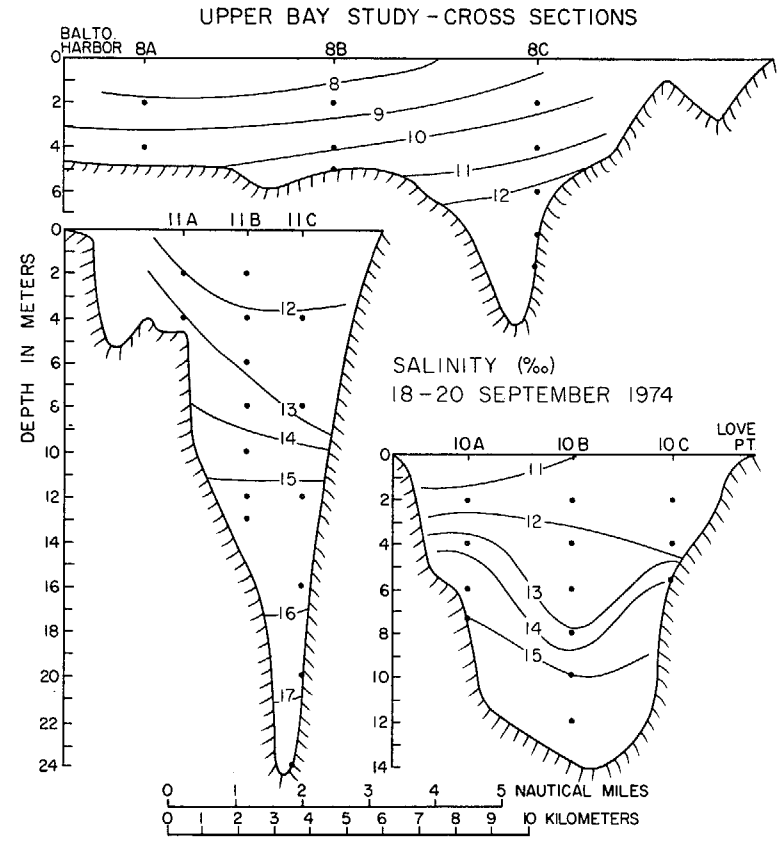
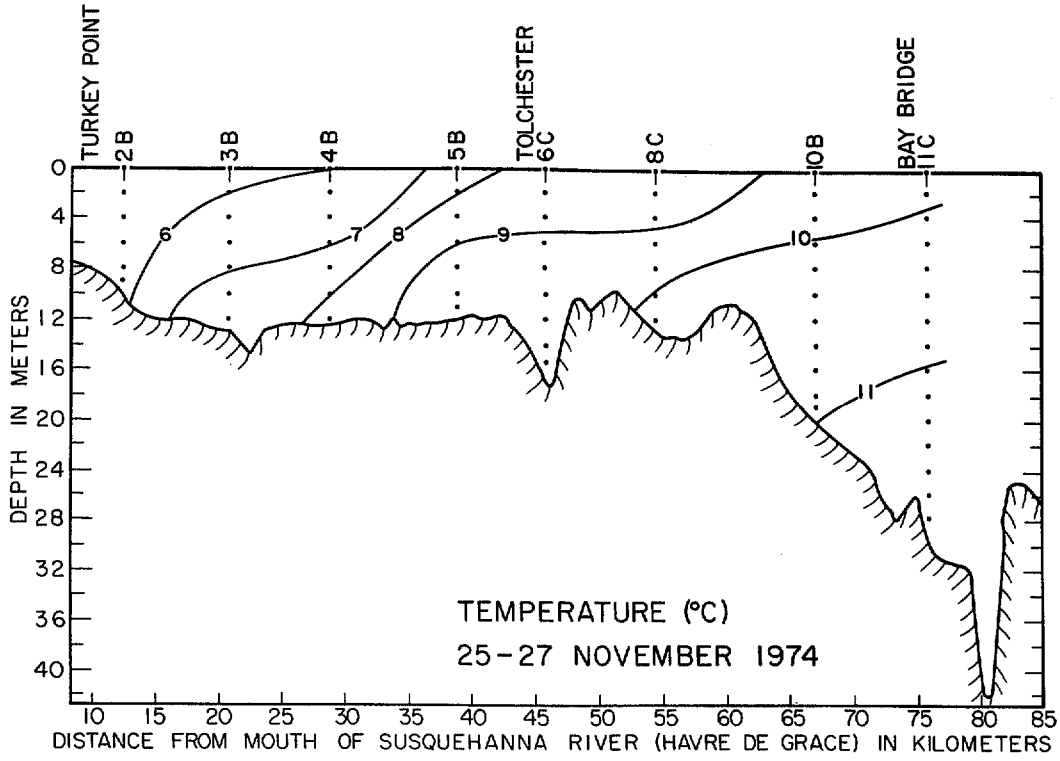
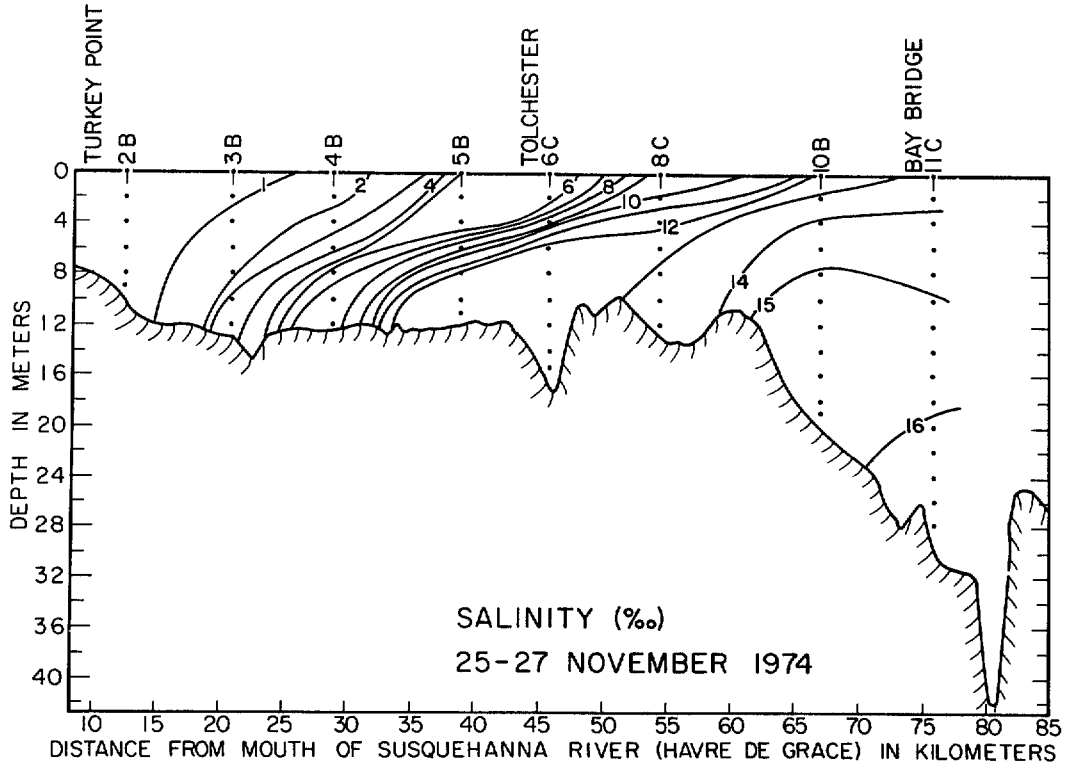


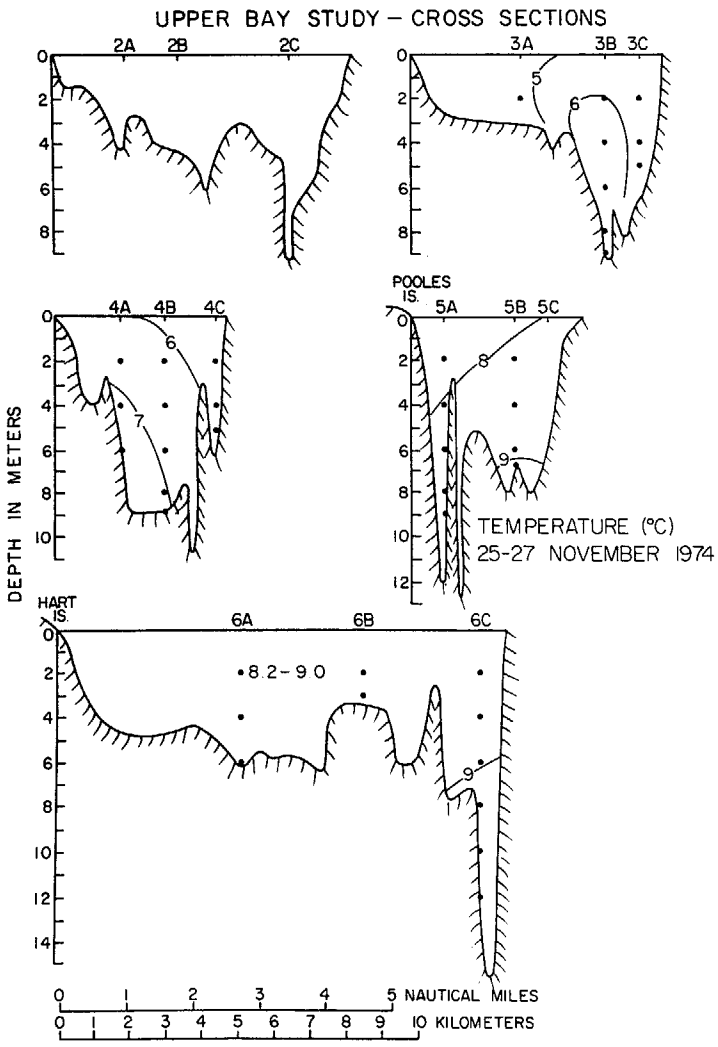


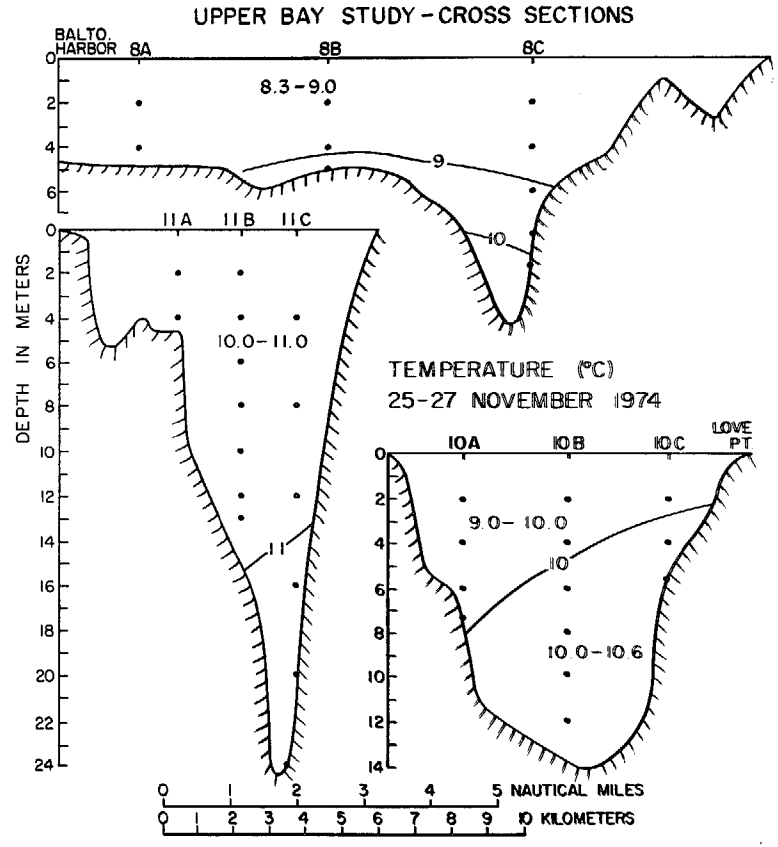
Lateral Distributions Of Salinity On Selected Cross-Sections Of The Upper Bay September 18 Through 20, 1974.





Longitudinal Distributions Of Temperature And Salinity Along The Axis Of The Upper Bay November 25 Through 27, 1974.





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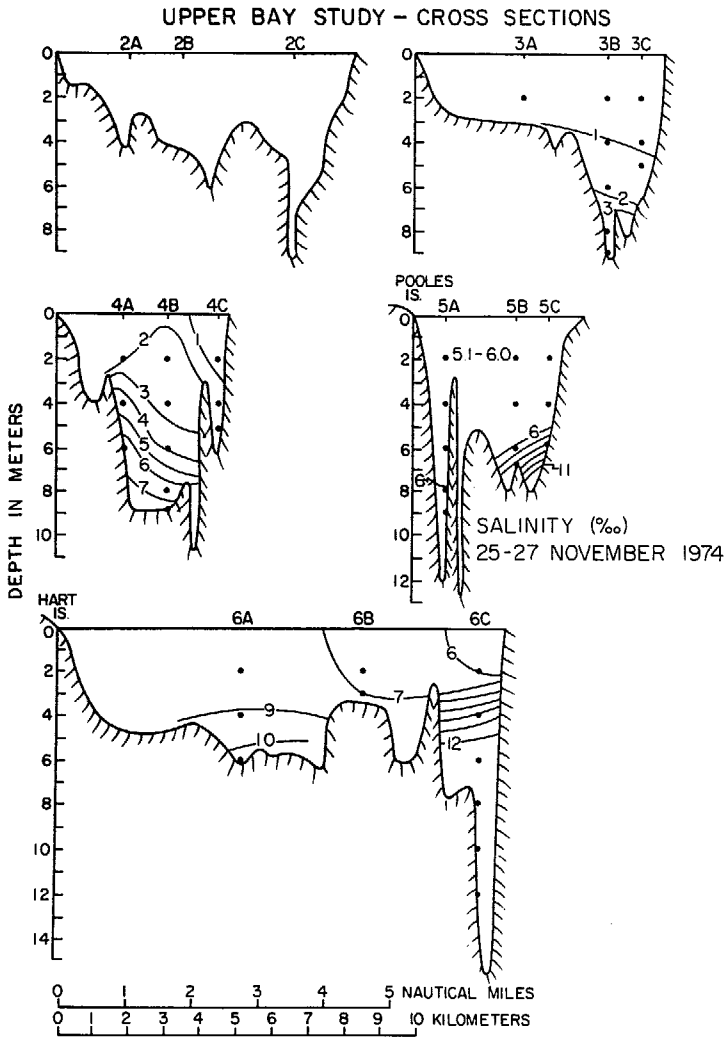

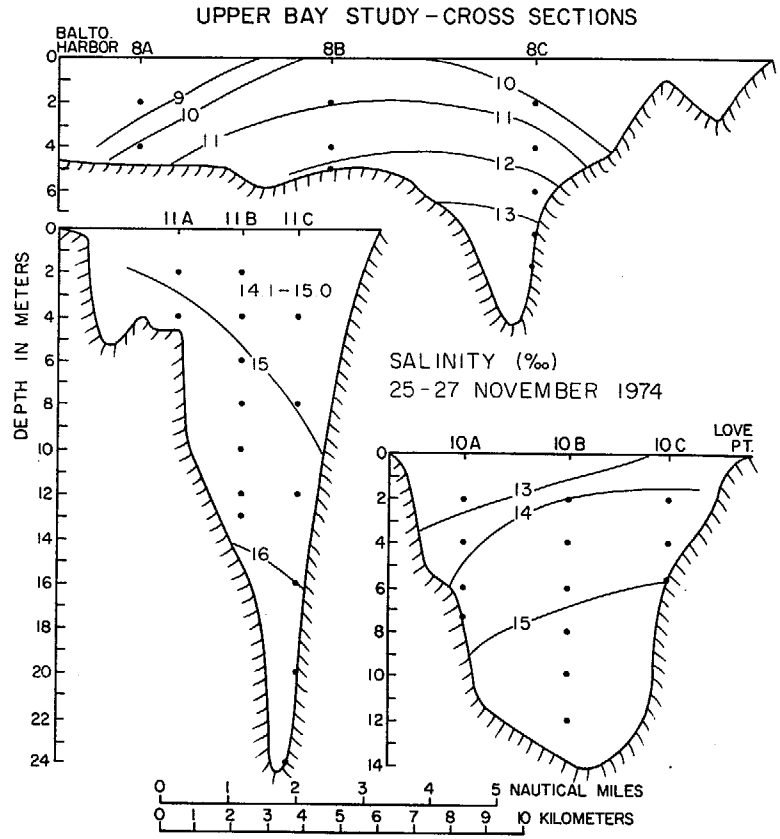

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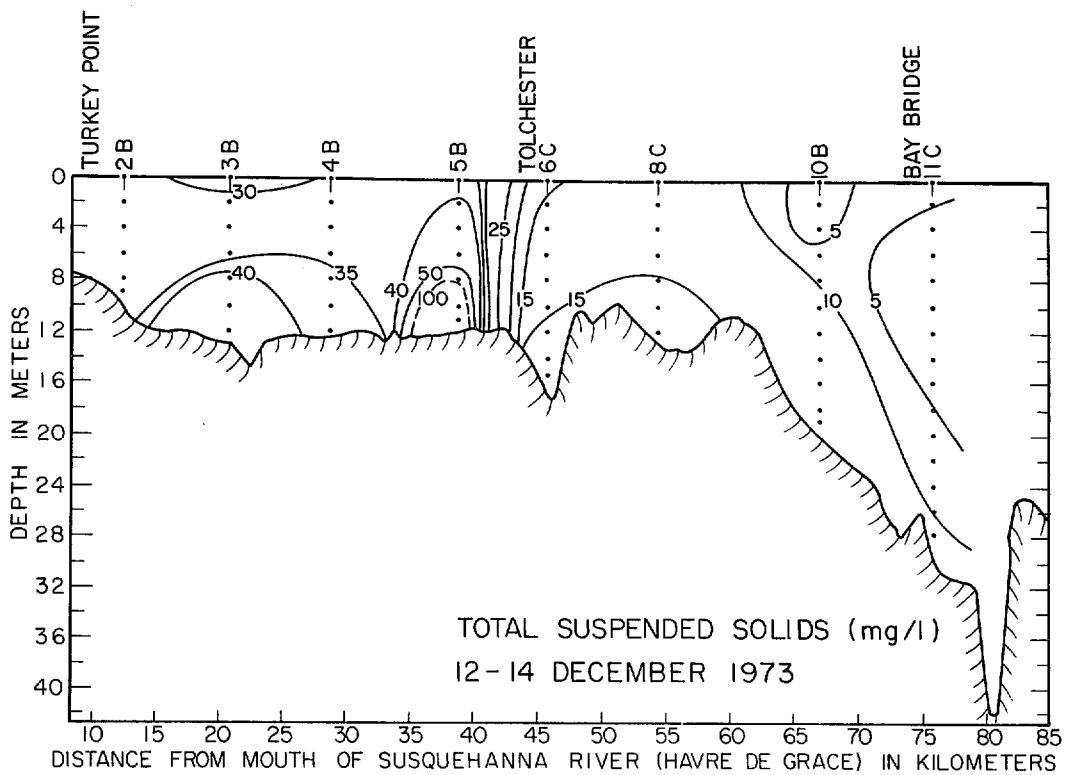
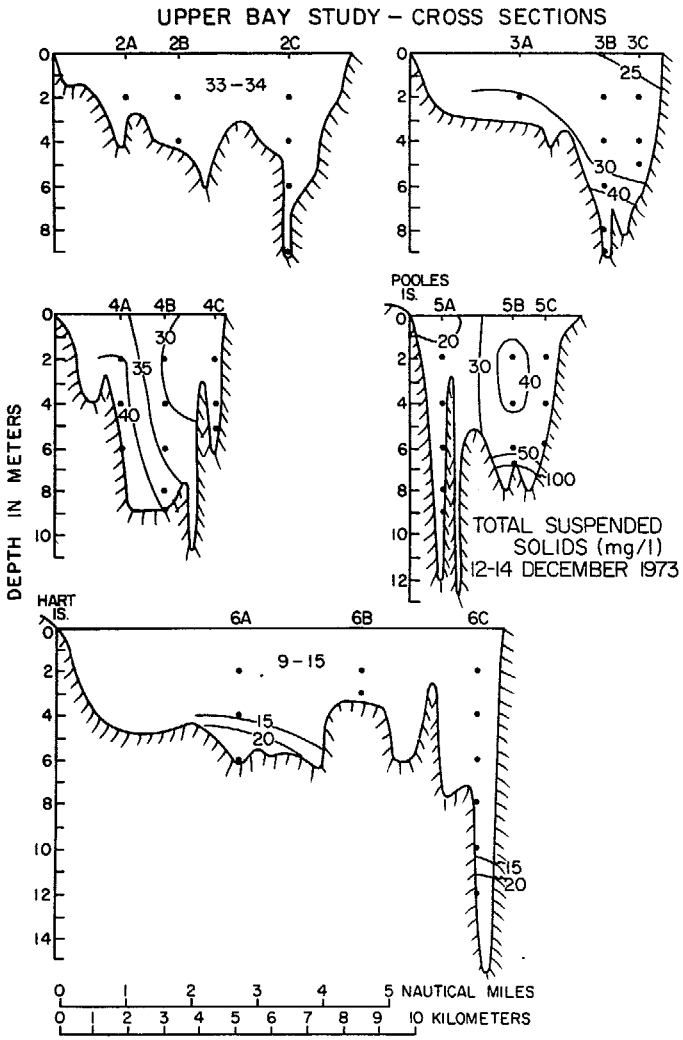
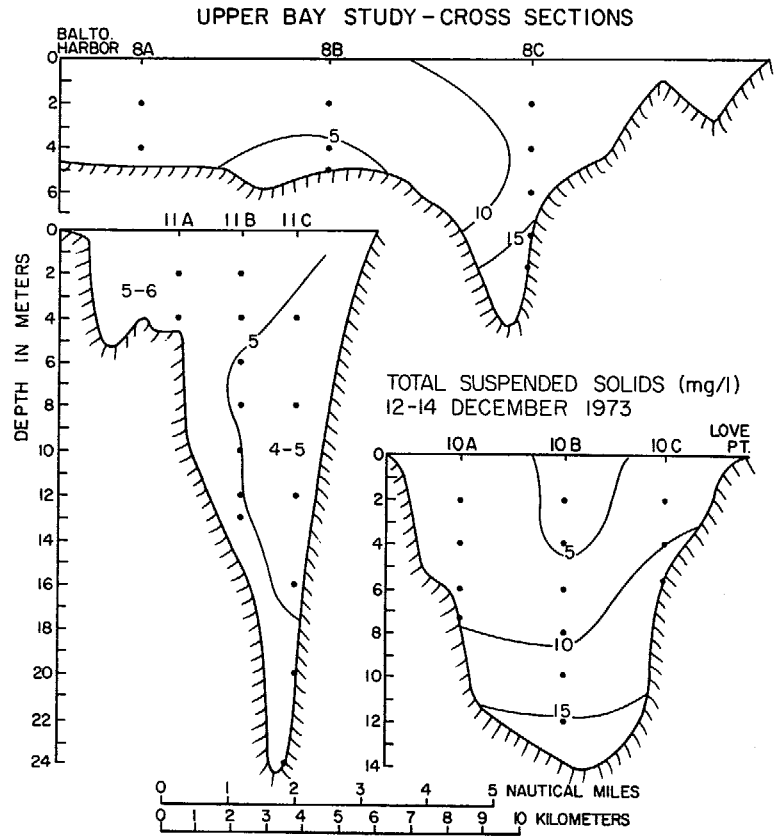
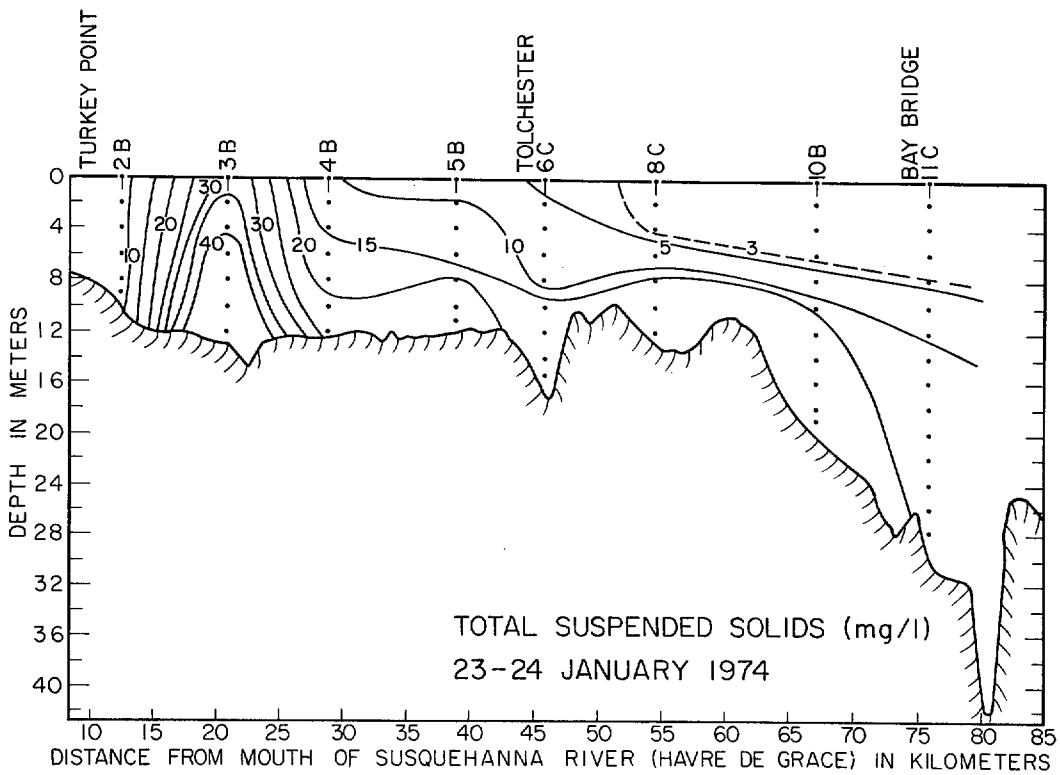


Longitudinal Distribution Of Total Suspended Solids Along The Axis Of The Upper Bay December 12 Through 14, 1973.

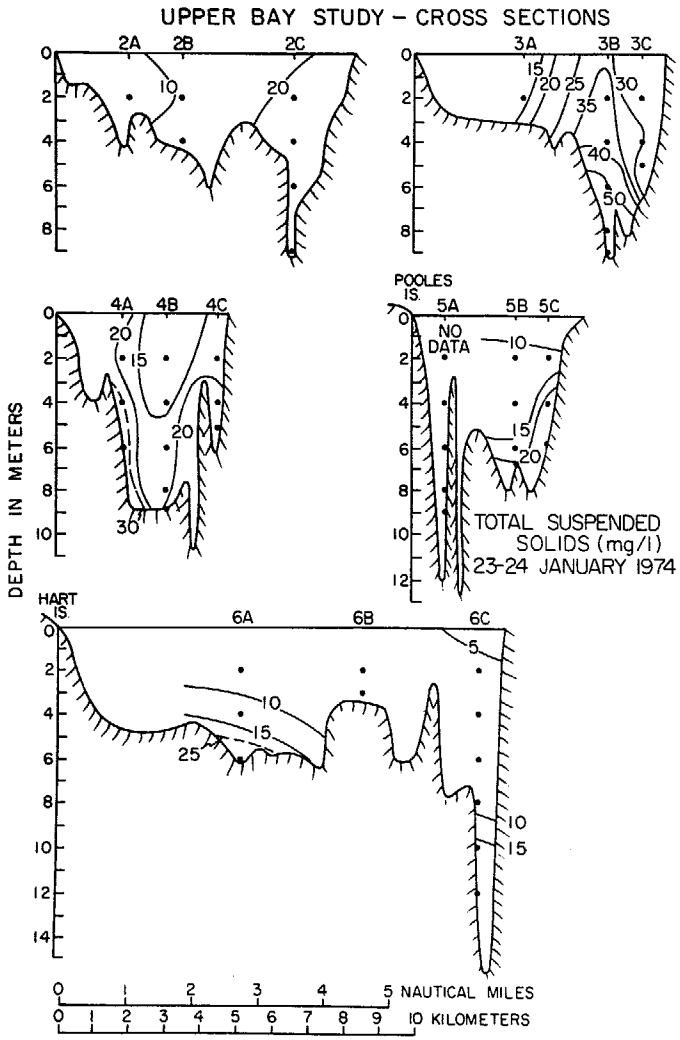


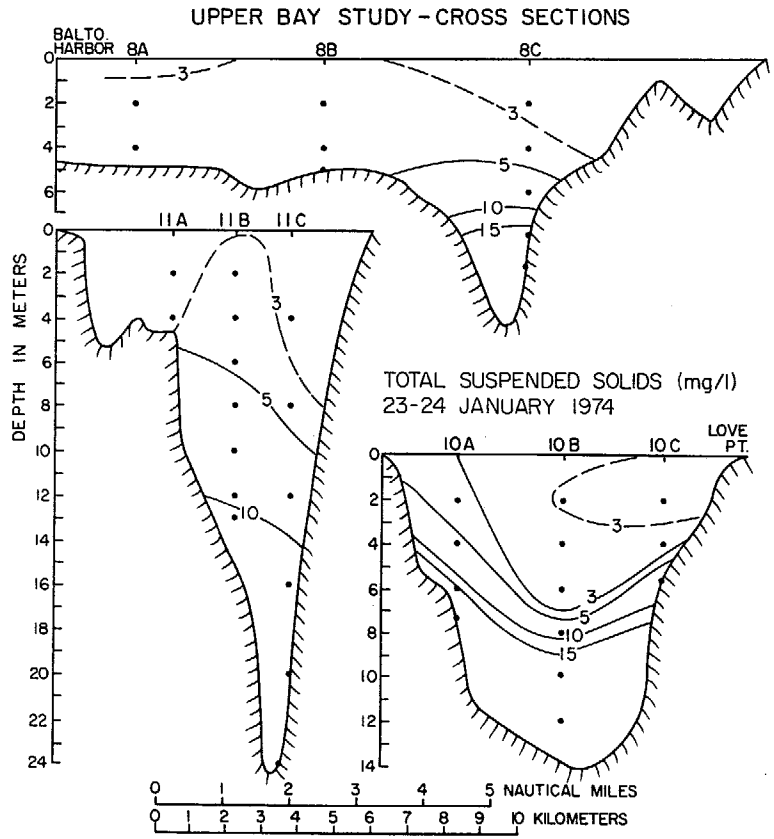


Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay December 12 Through 14, 1974.

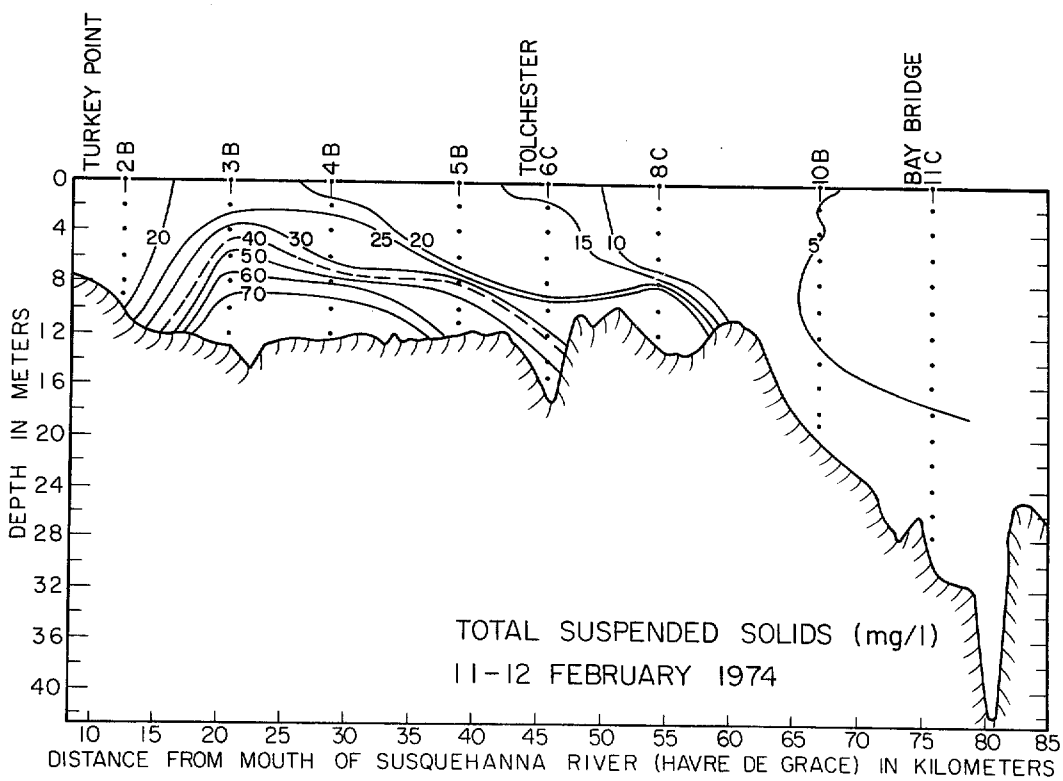


Longitudinal Distribution Of Total Suspended Solids Along The Axis Of The Upper Bay January 23 And 24, 1974.





Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay January 23 And 14, 1974.



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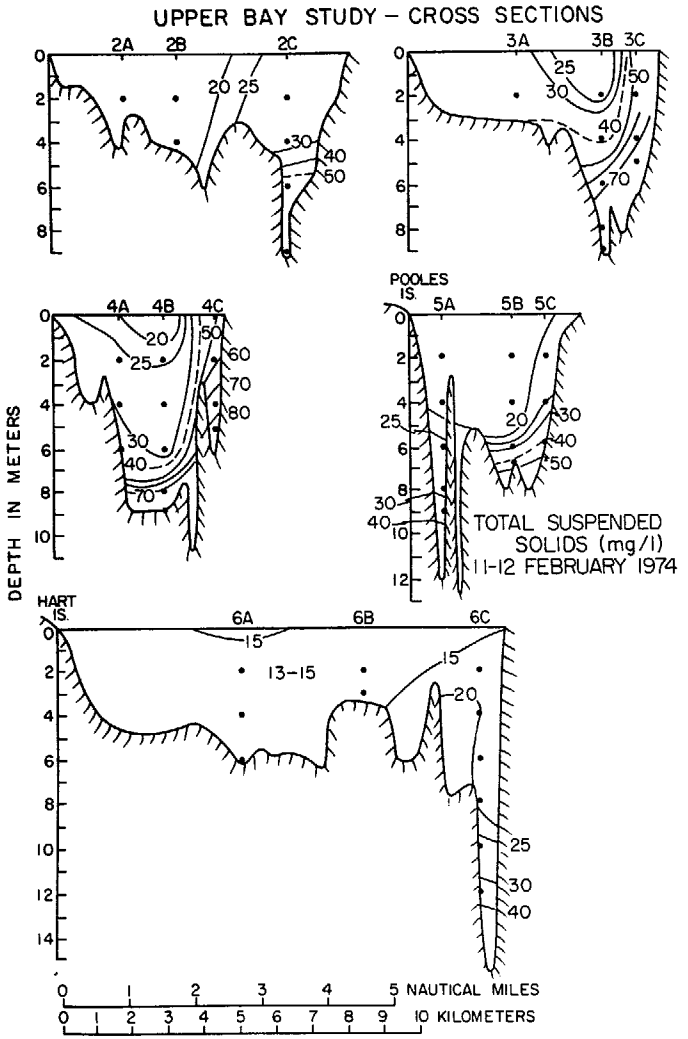

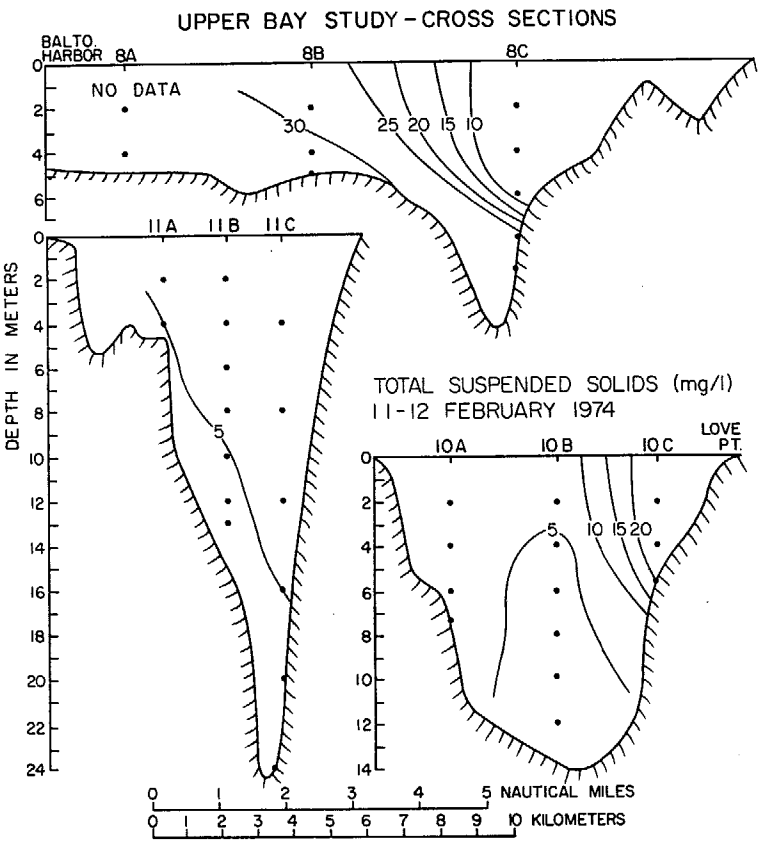

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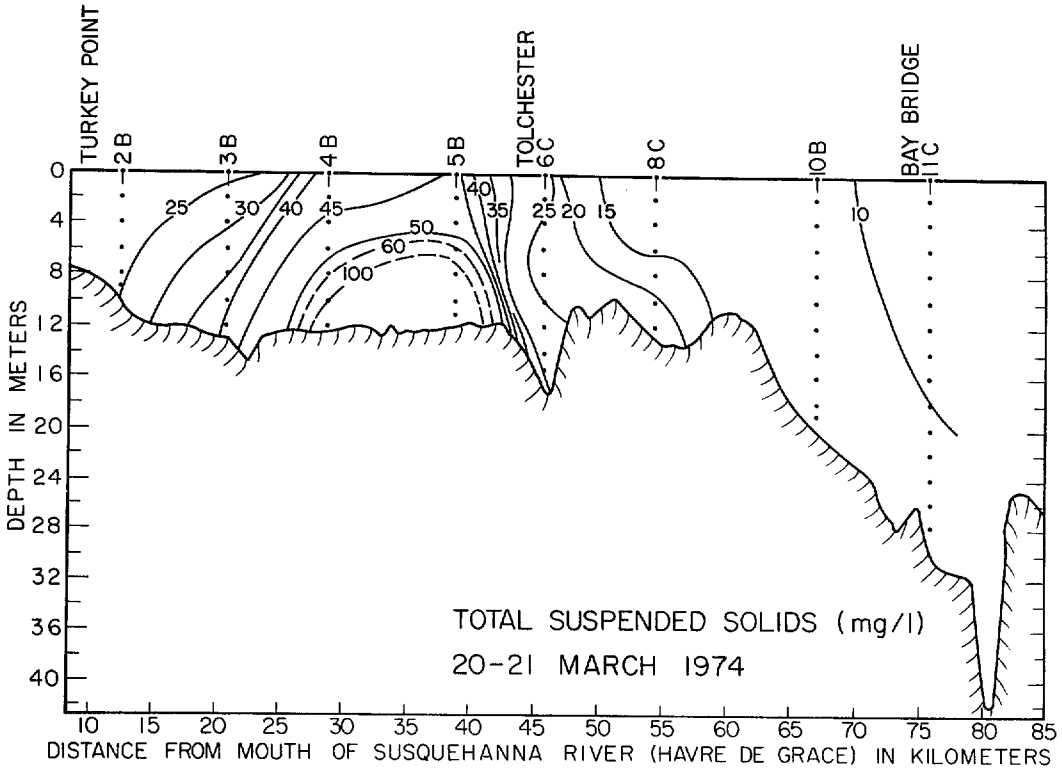

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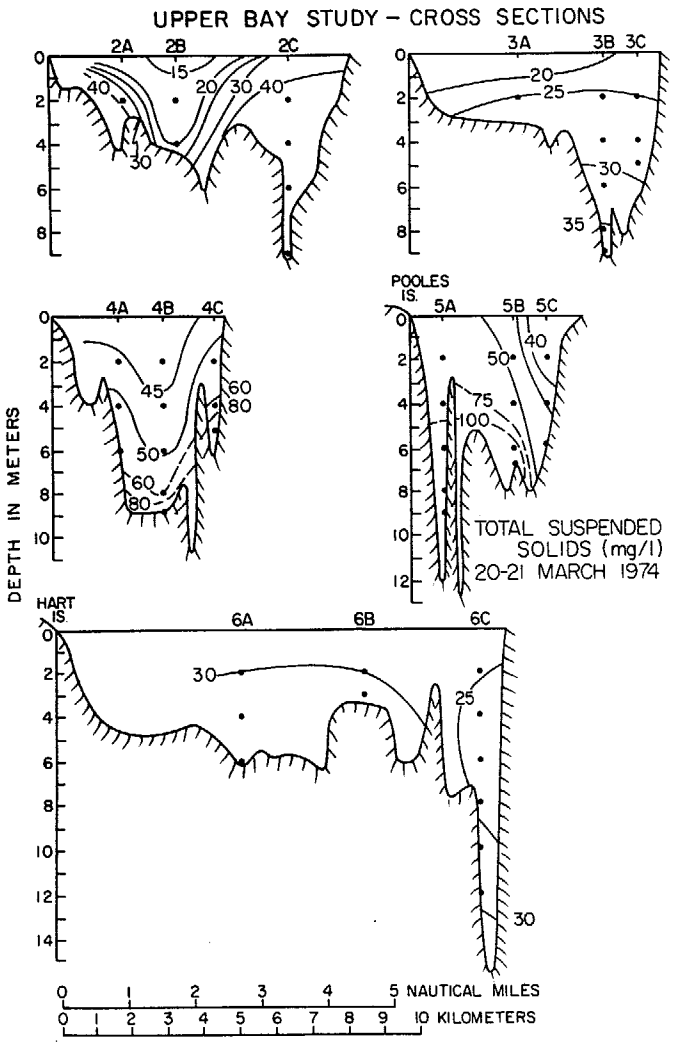
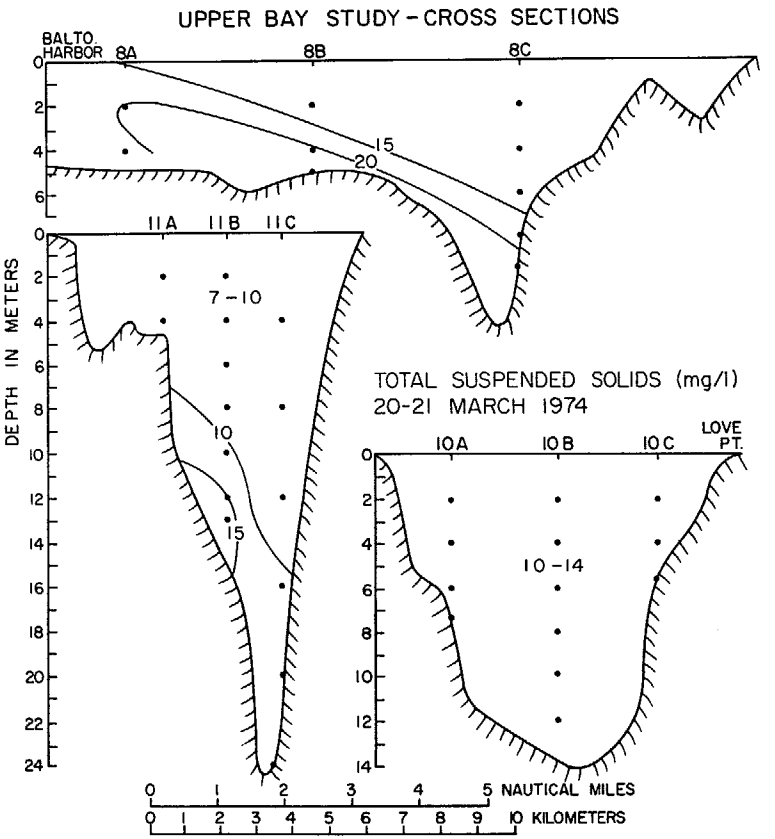
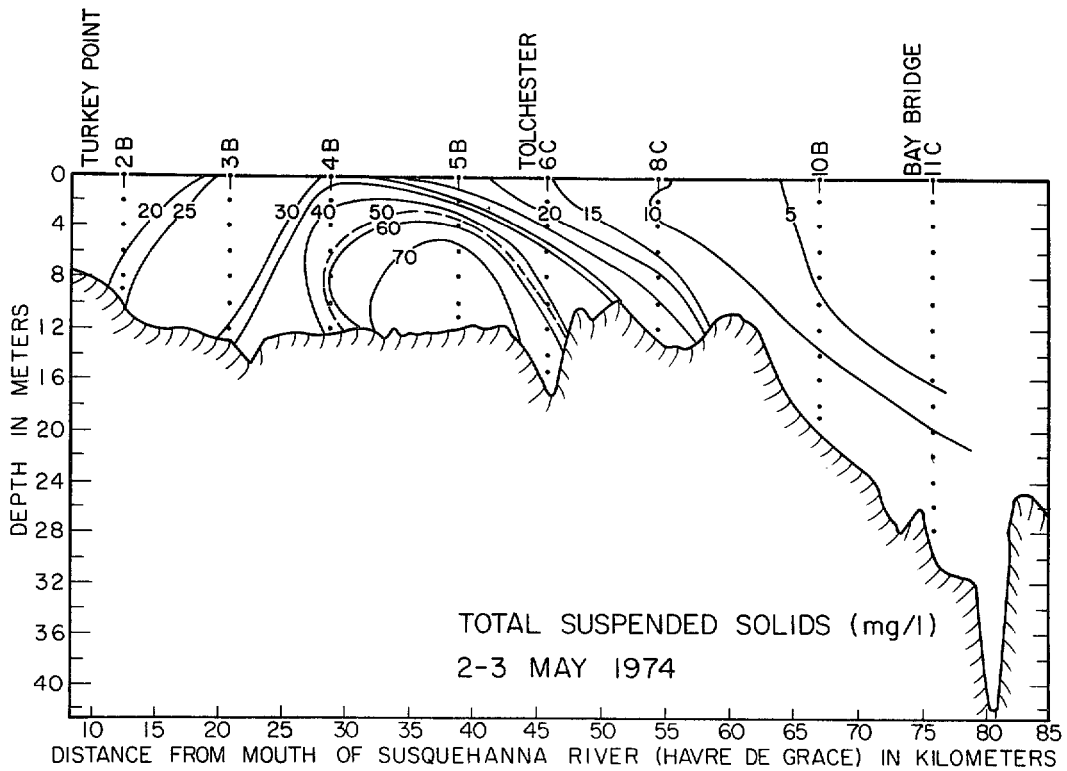
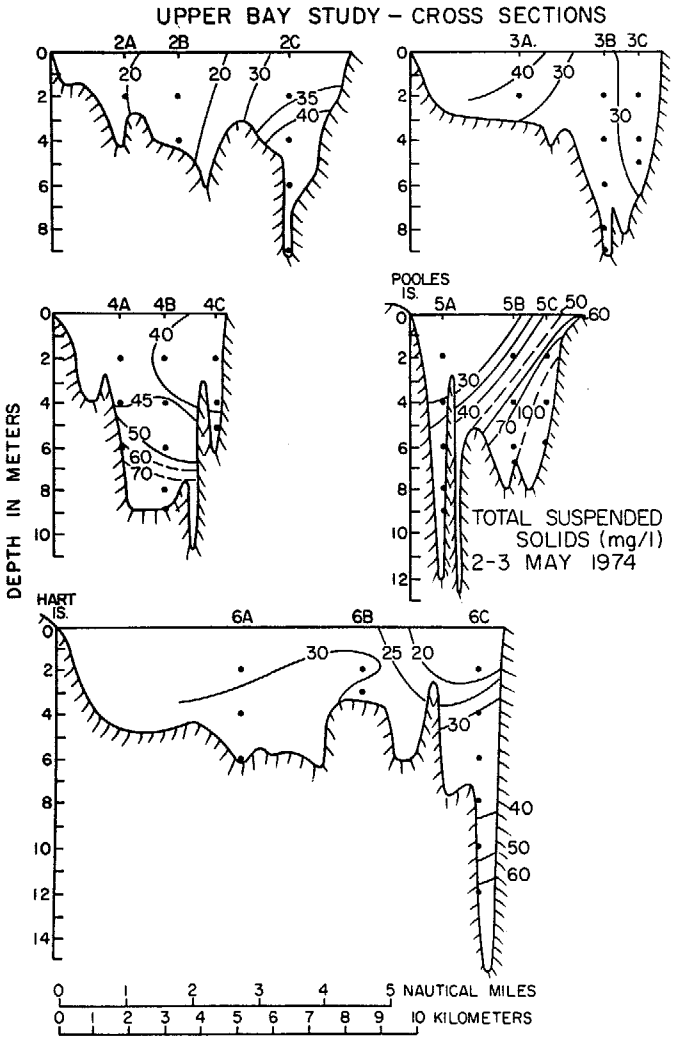


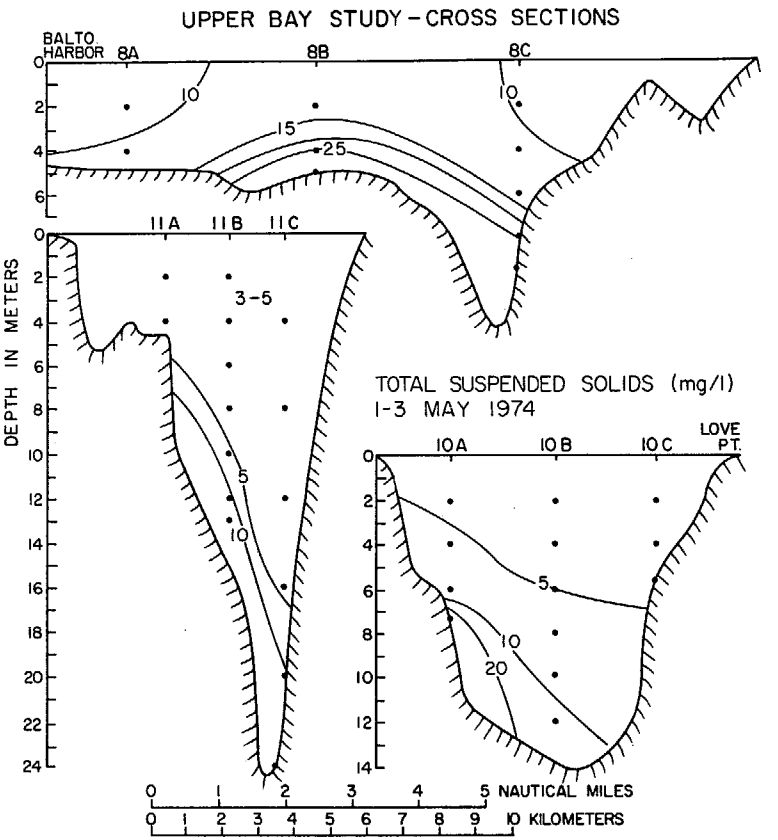


Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay March 20 And 21, 1974.



Longitudinal Distribution Of Total Suspended Solids Along The Axis Of The Upper Bay
May 2 And 3, 1974





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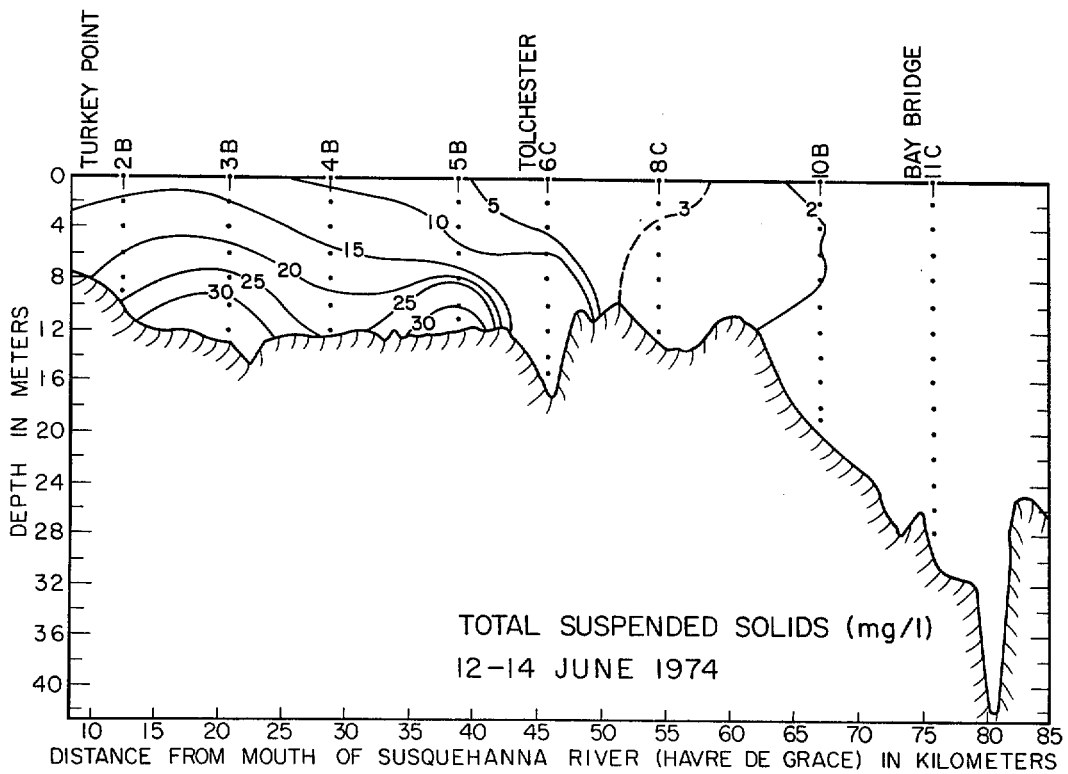

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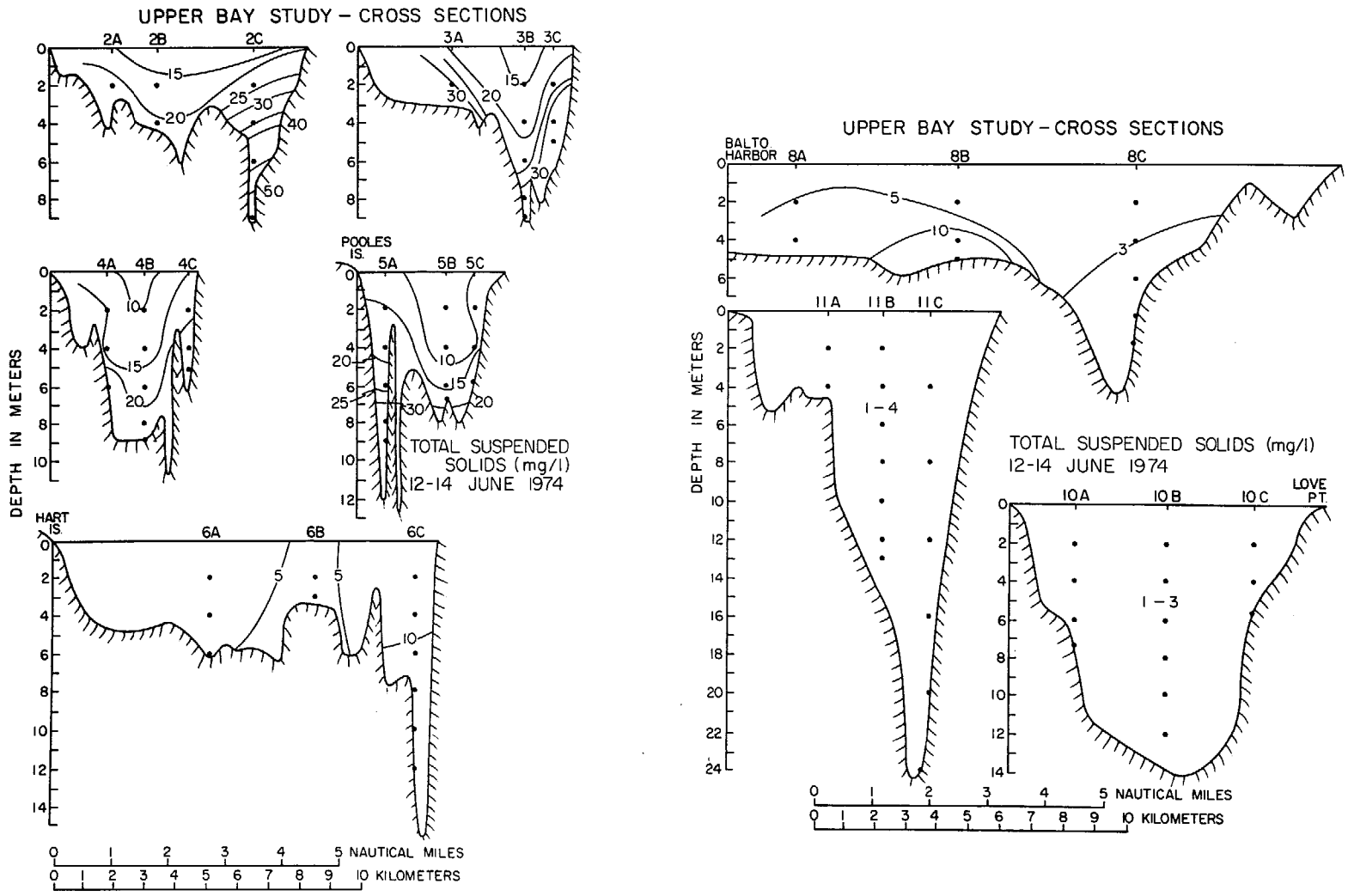
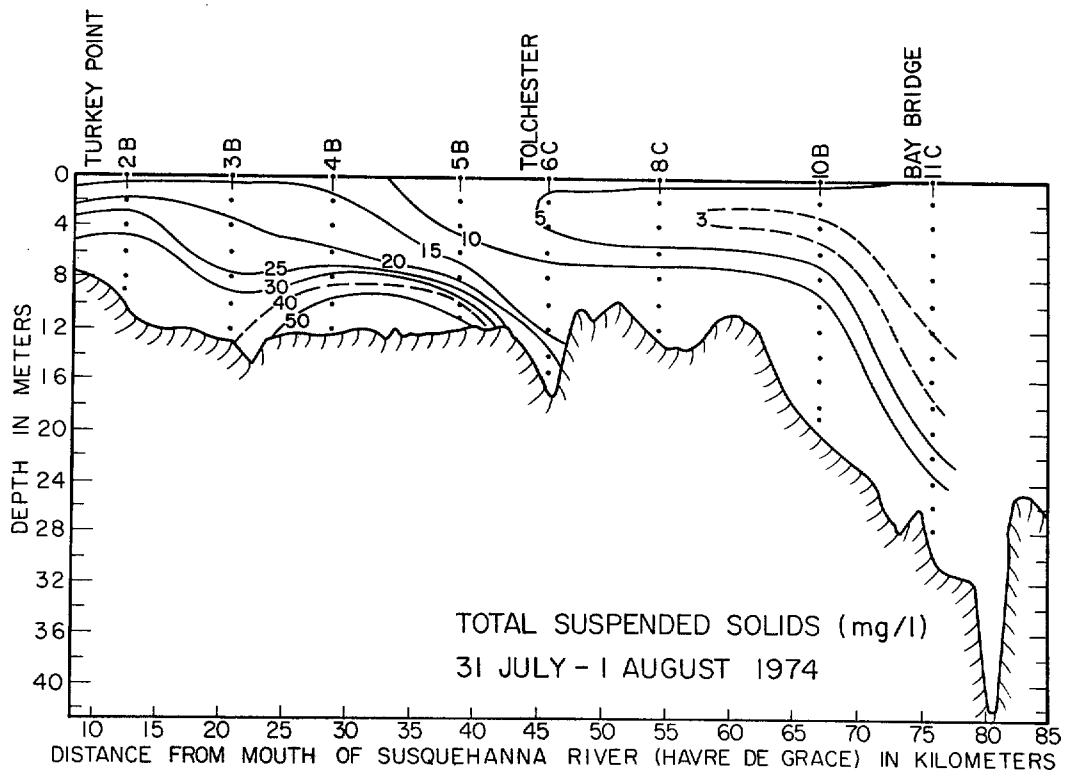


Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay June 12 Through 14, 1974.



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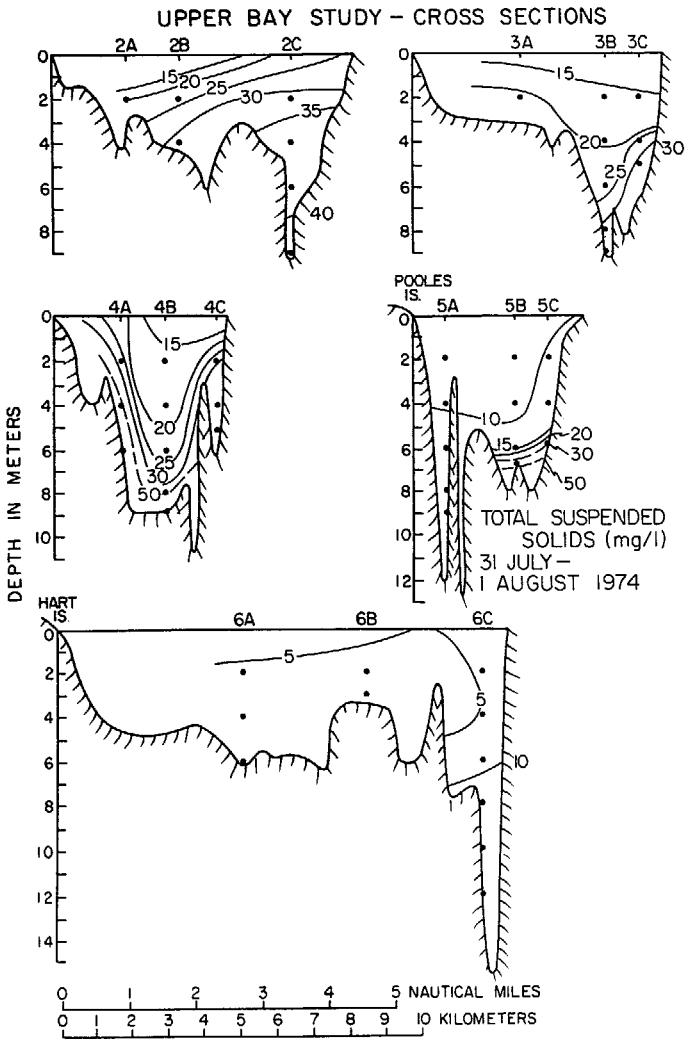

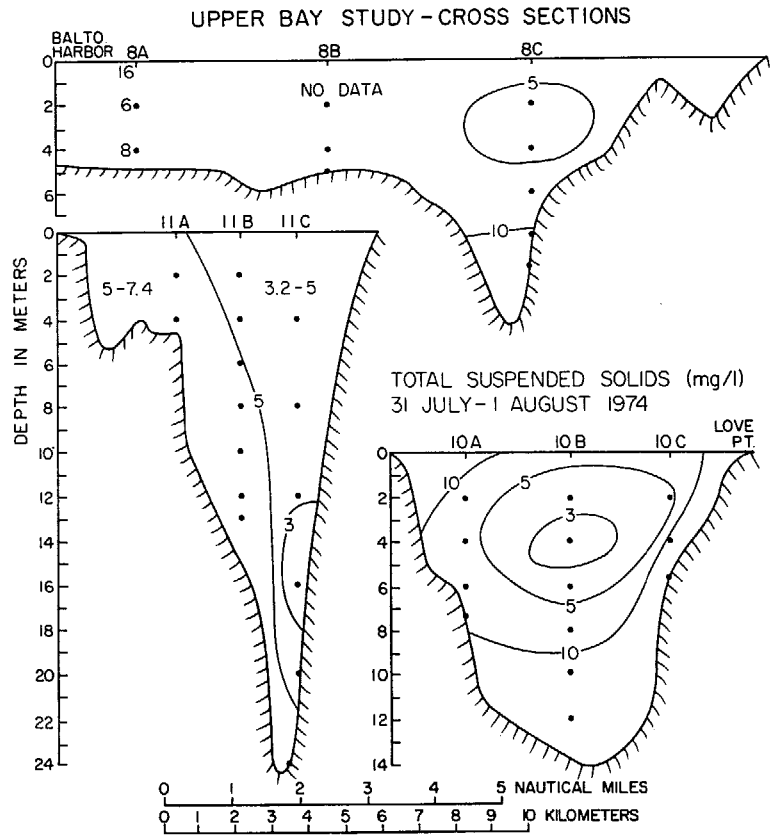

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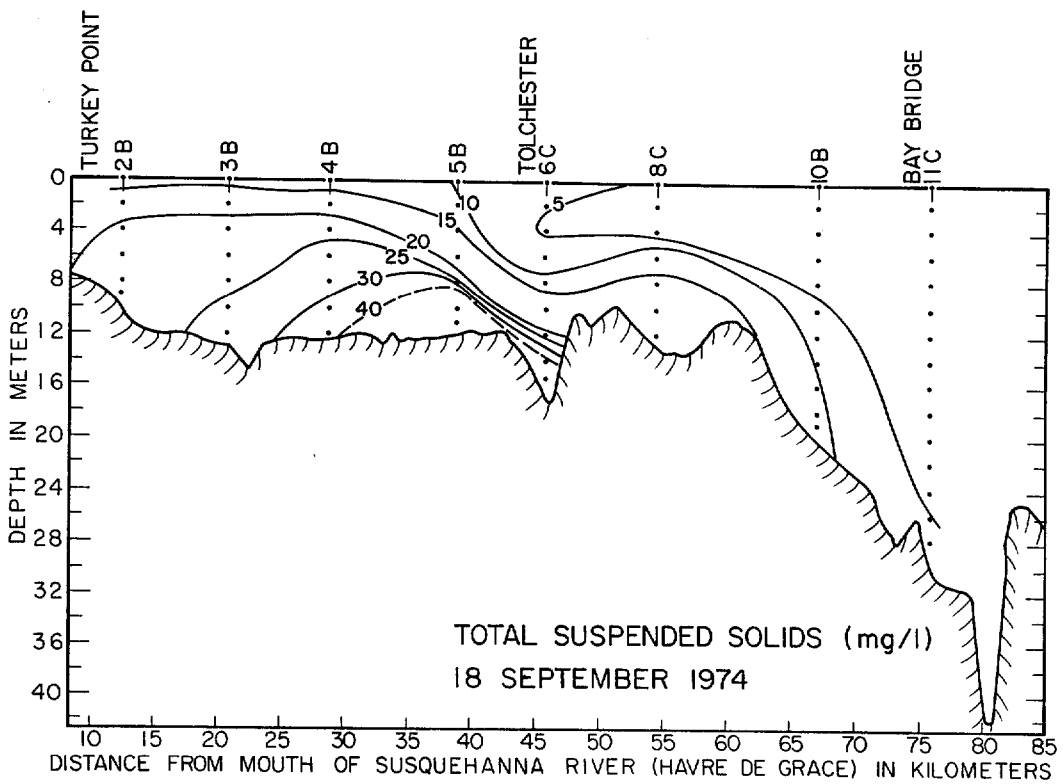

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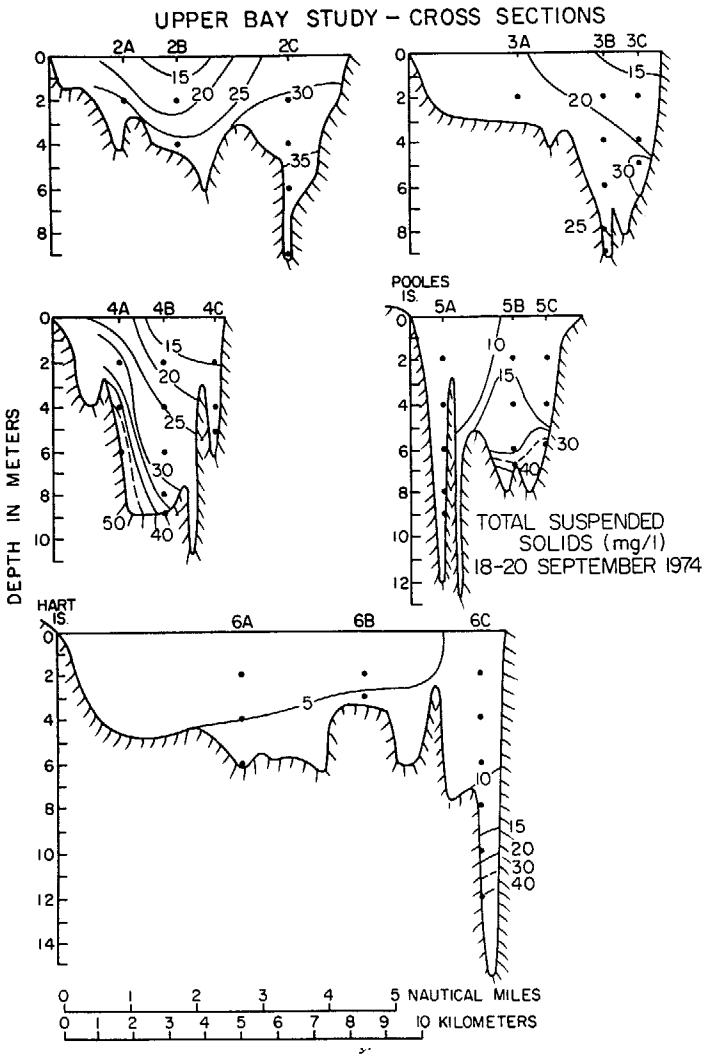
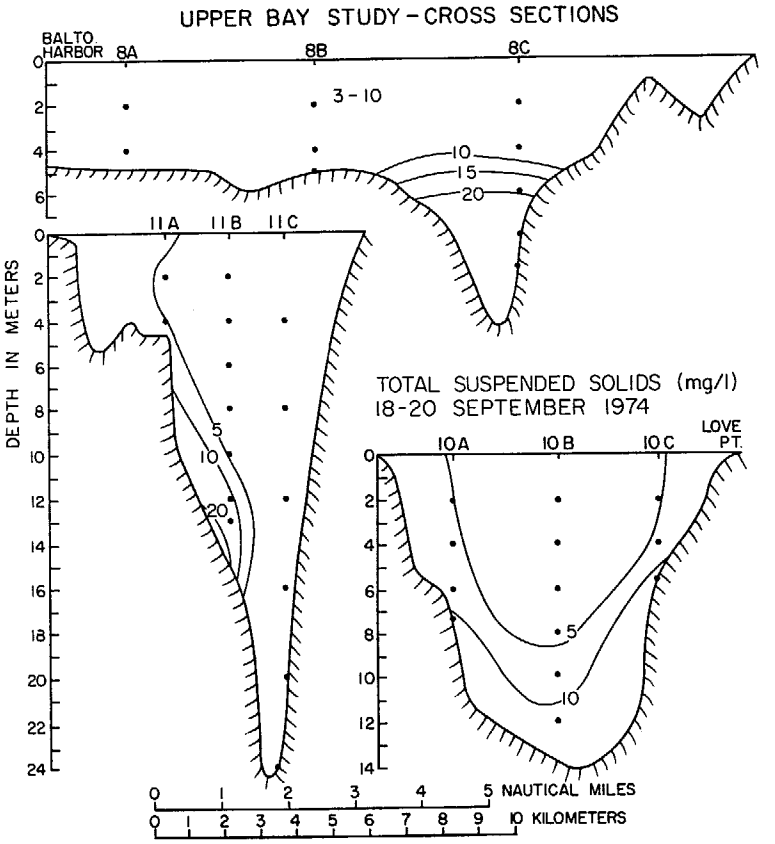
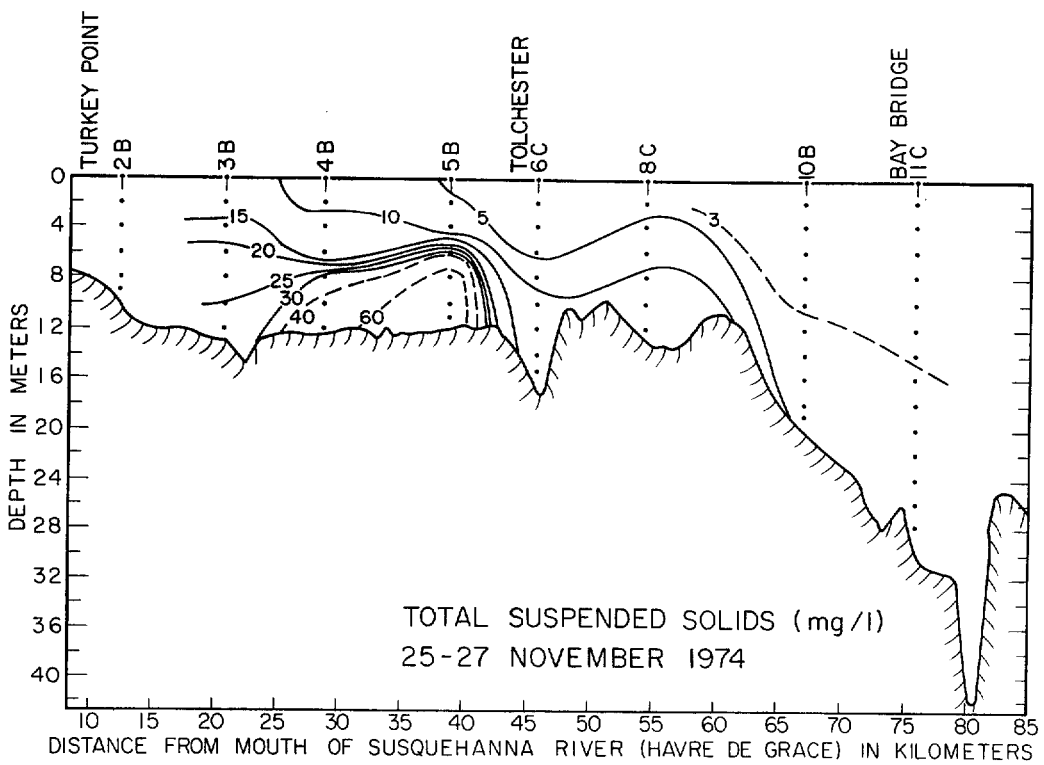




Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay September 18 Through 20, 1974.



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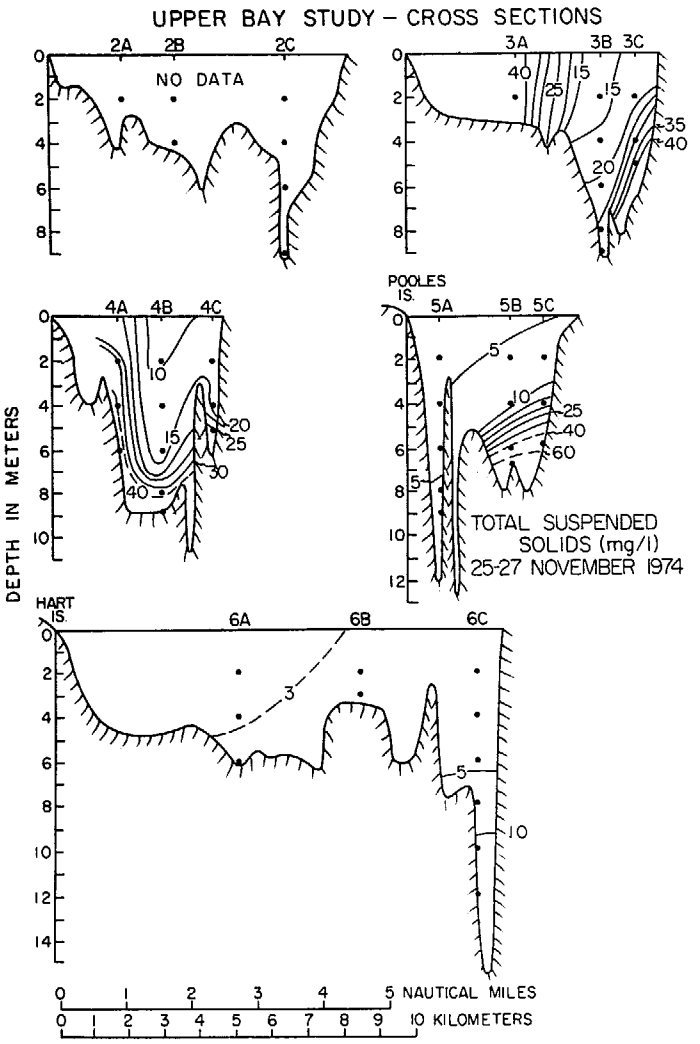
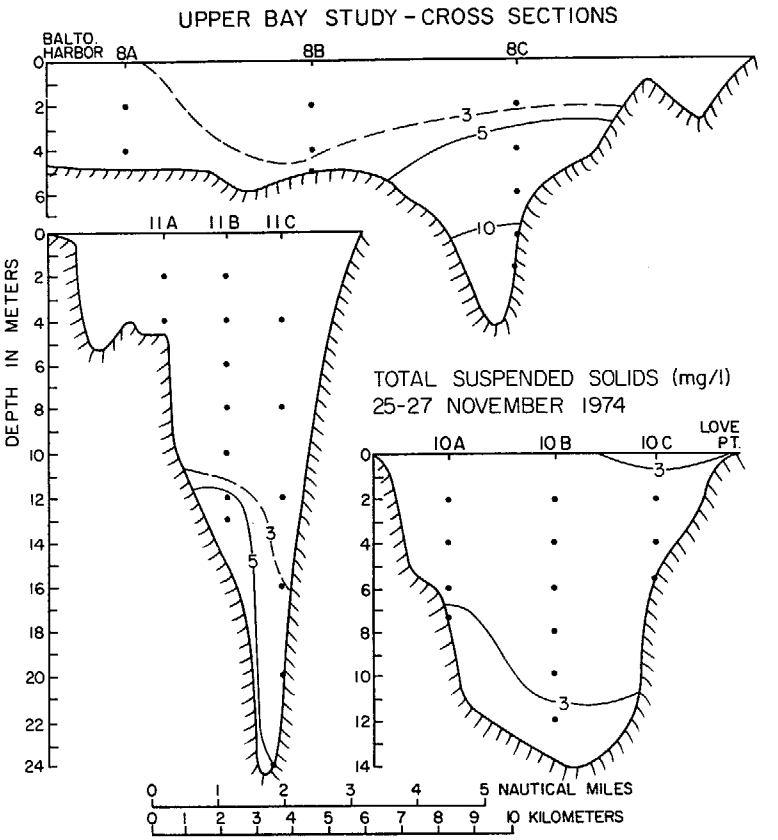




Lateral Distributions Of Total Suspended Solids On Selected Cross-Sections Of The Upper Bay November 25 Through 27, 1974.

APPENDIX C

SUPPLEMENTARY MARINE BIOLOGY DATA

ON

WATER QUALITY AT PLANKTON

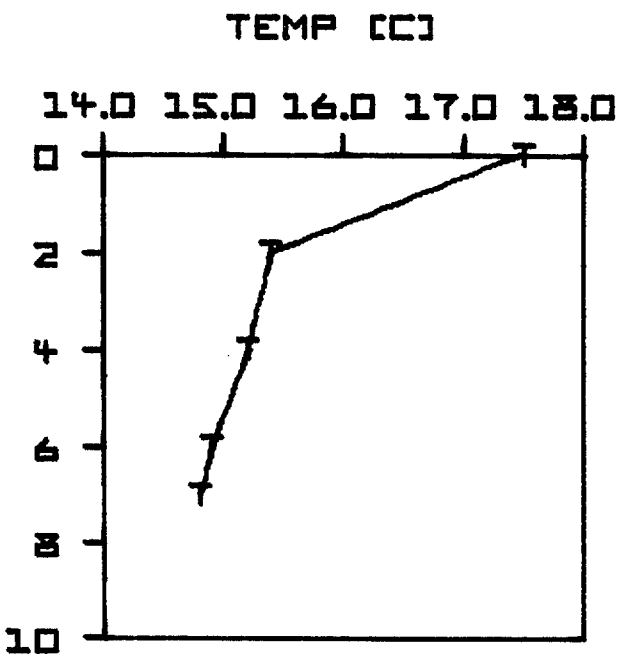
SAMPLING STATIONS

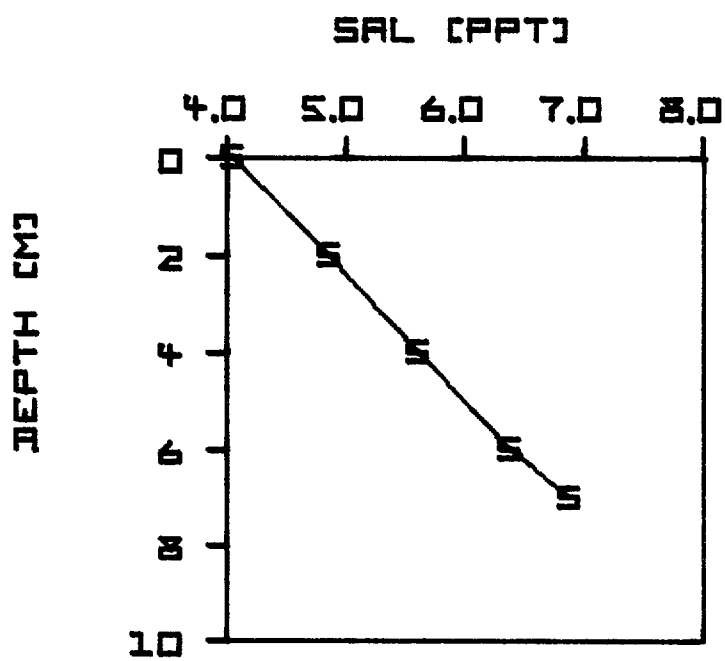
Appendix C supplements Volume II, Chapter 2, Marine Biology by J. M. Forns. As these data do not enter directly into the discussion of the text, they are inserted here with the other data base information of Volume III.

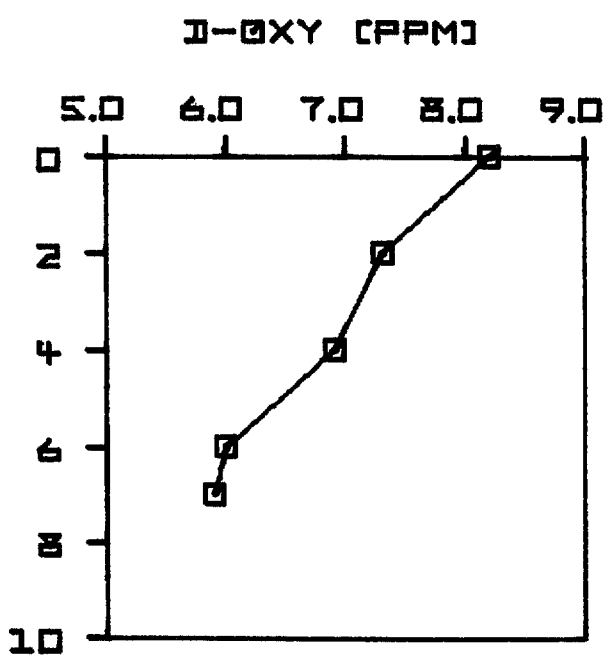
J. M. Forns
Westinghouse Electric Corporation

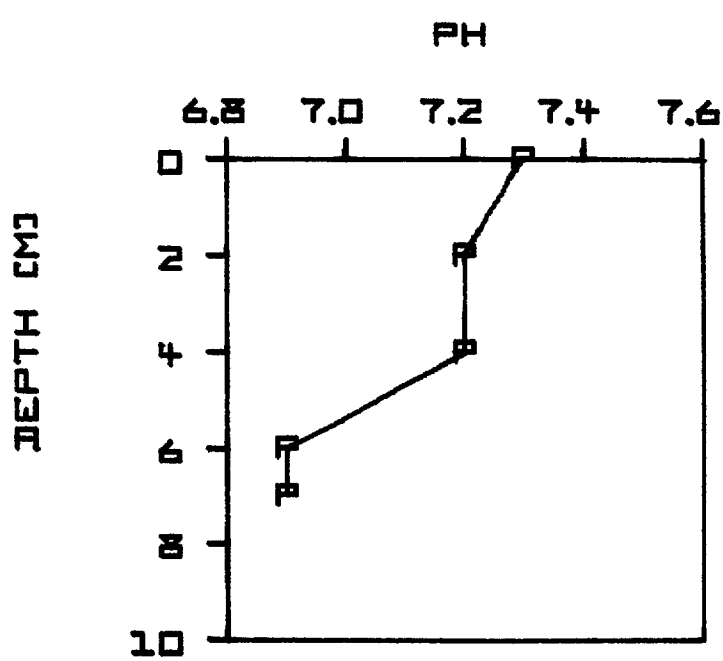
U. B. SURVEY

SAMPLE NUMBER 32
STATION NUMBER 78
DATE 05/01/1974



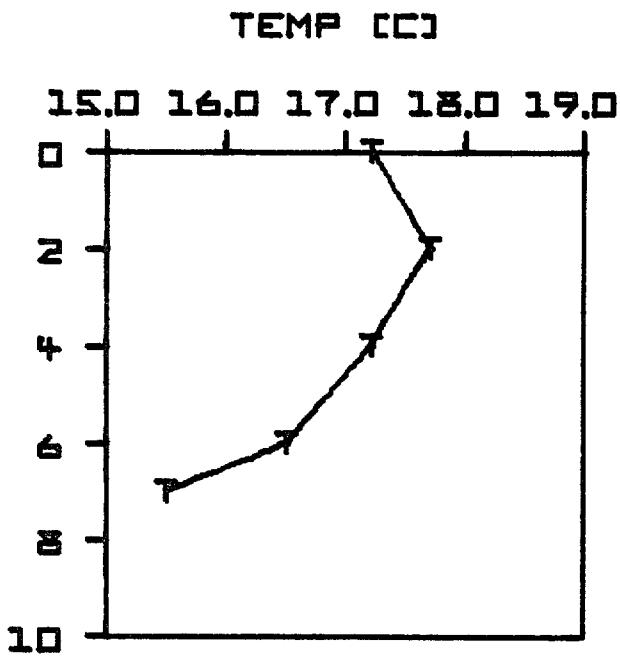


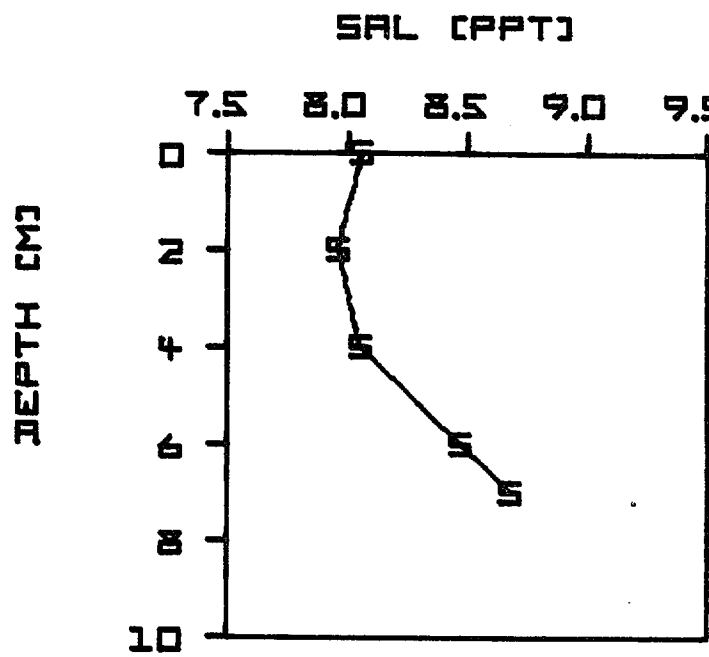


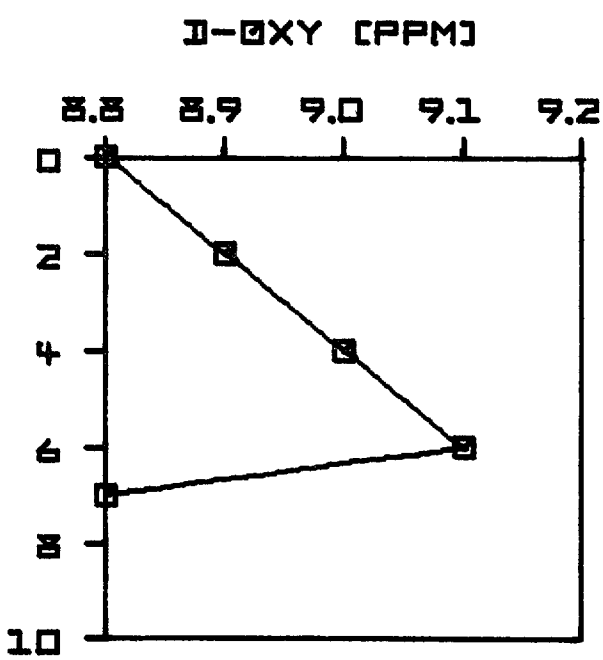


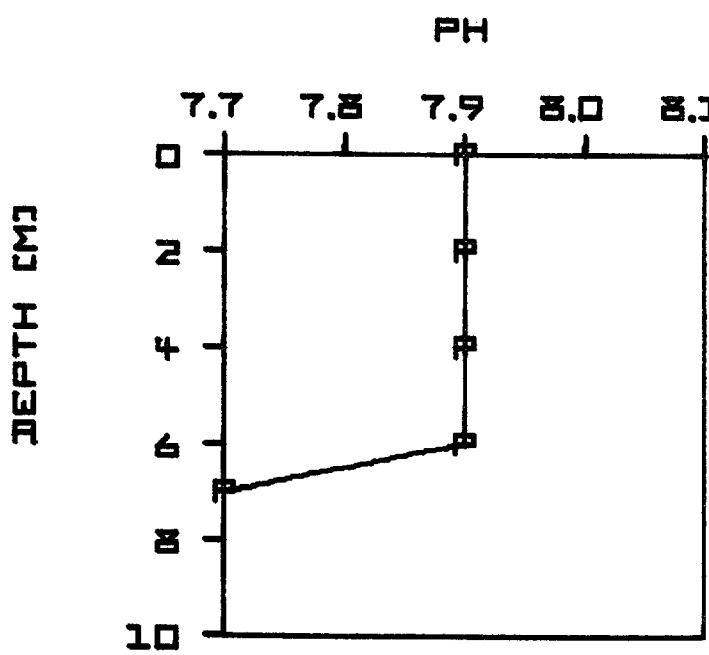
U. B. SURVEY

SAMPLE NUMBER 33
STATION NUMBER 11D
DATE 05/01/1974



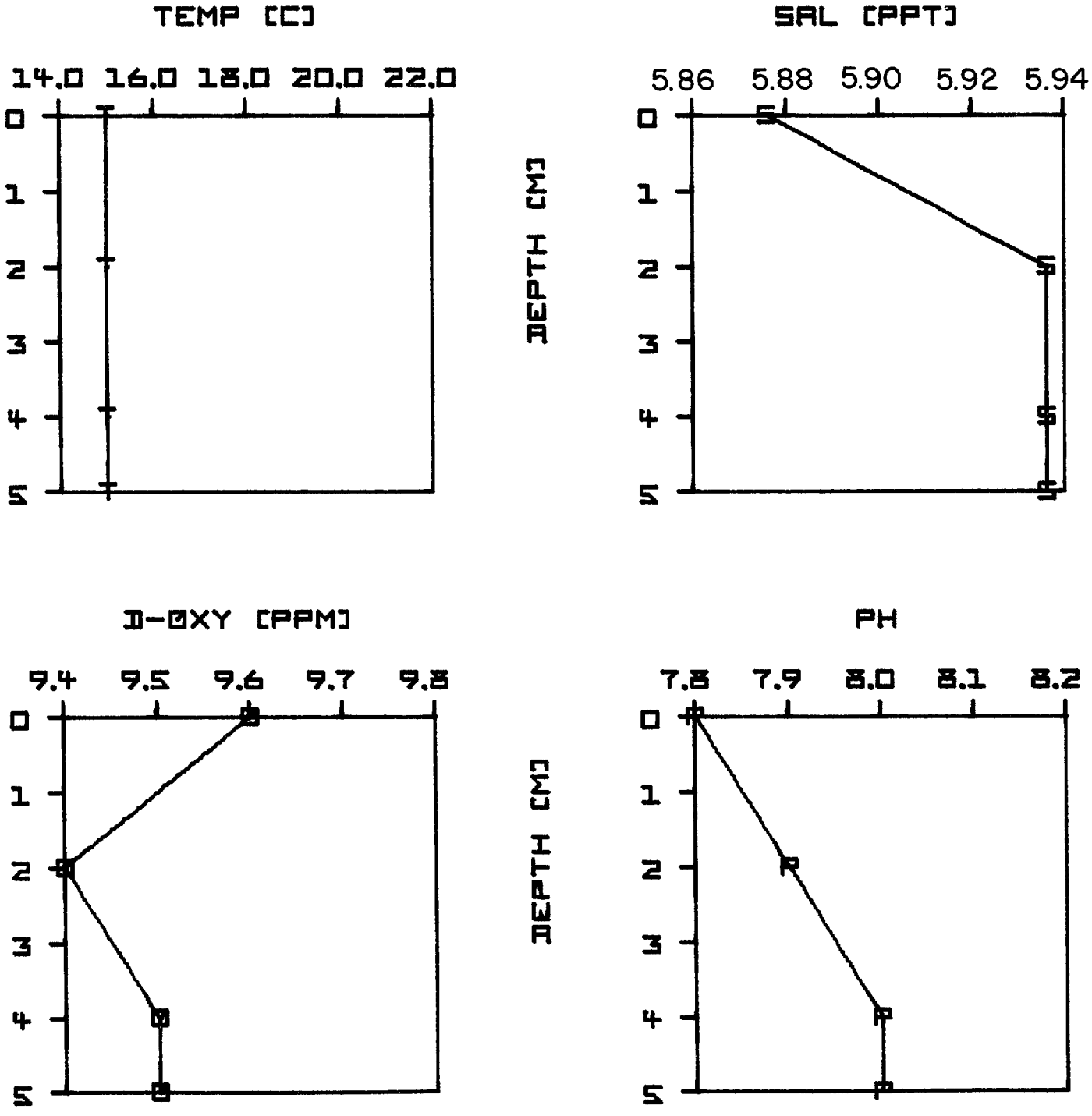






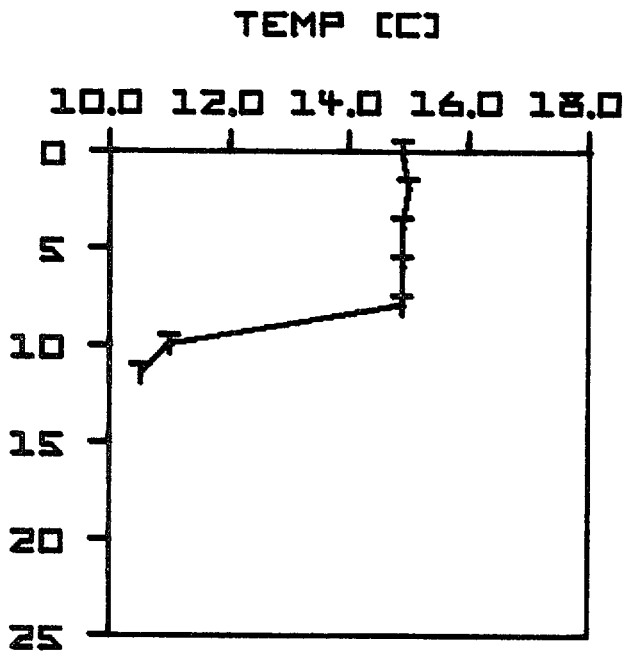
U. B. SURVEY

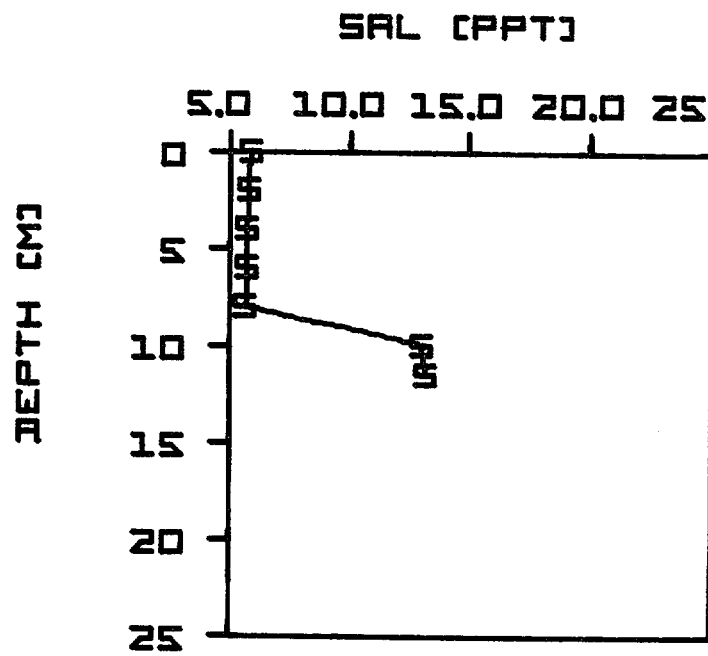
SAMPLE NUMBER 35
STATION NUMBER 11A
DATE 05/02/1974

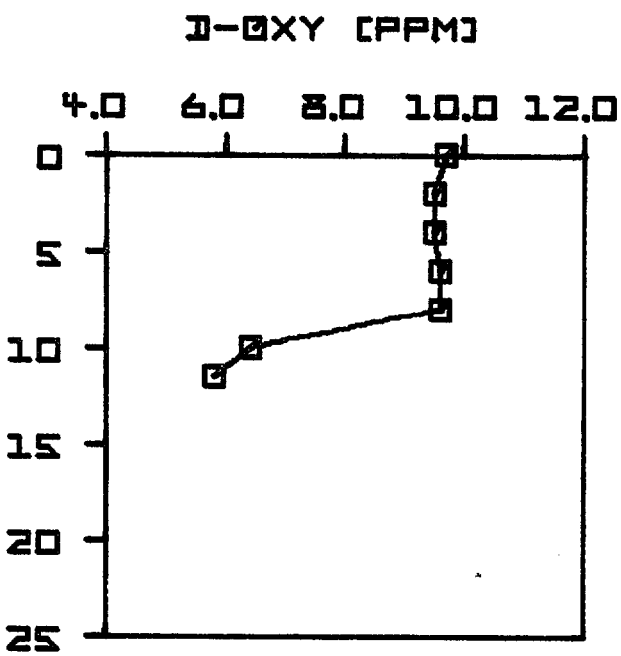


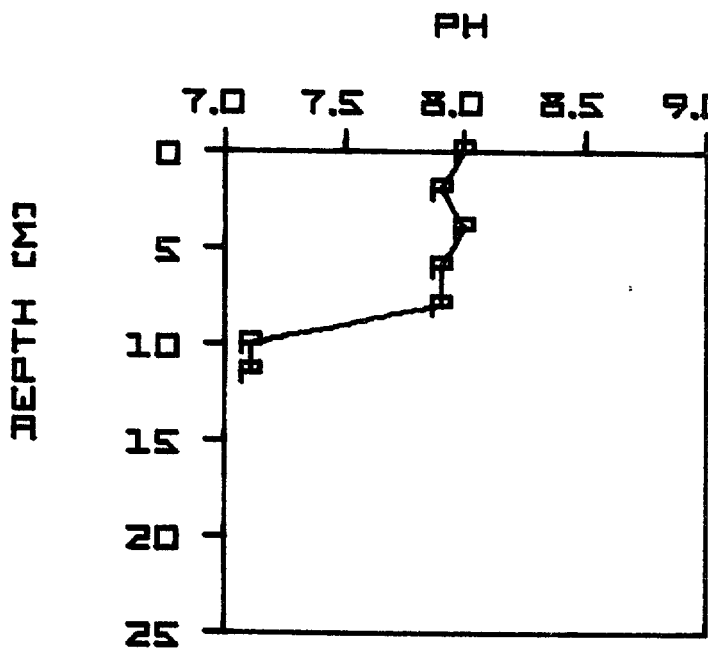
U. B. SURVEY

SAMPLE NUMBER 36
STATION NUMBER 108
DATE 05/02/1974



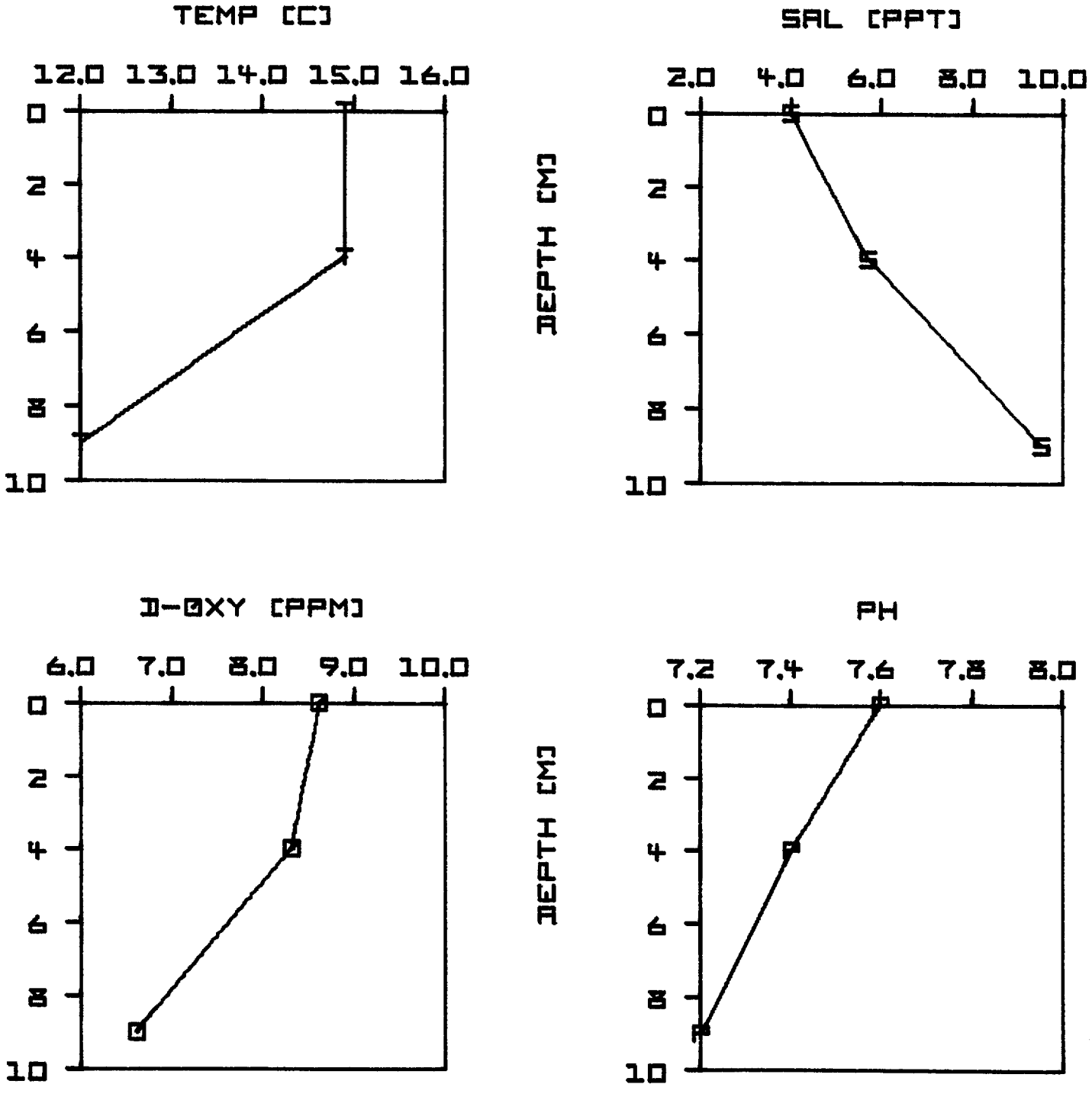






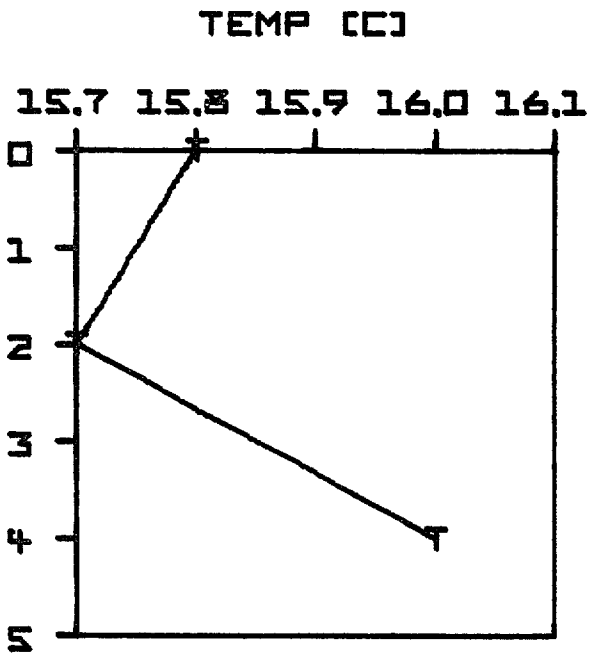
U. B. SURVEY

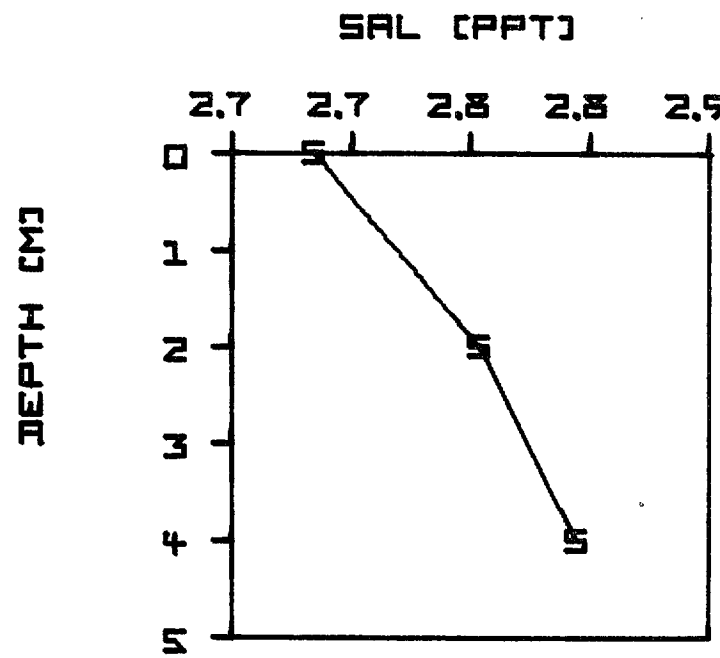
SAMPLE NUMBER 37
STATION NUMBER 8C
DATE 05/02/1974



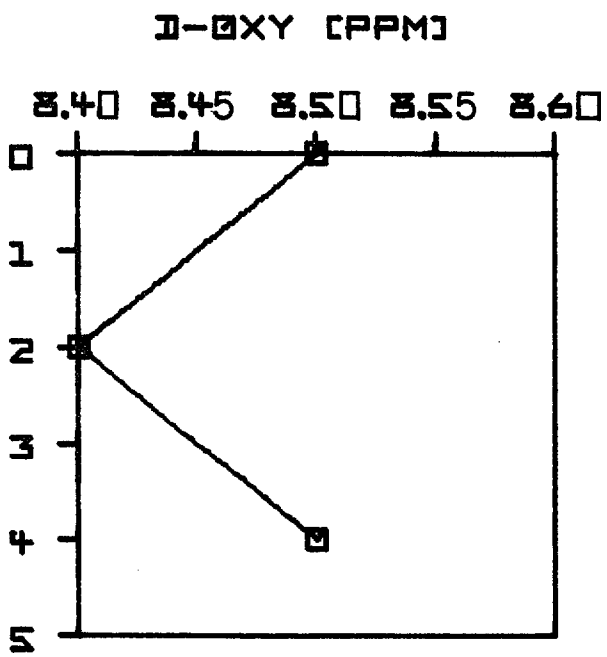
U. B. SURVEY

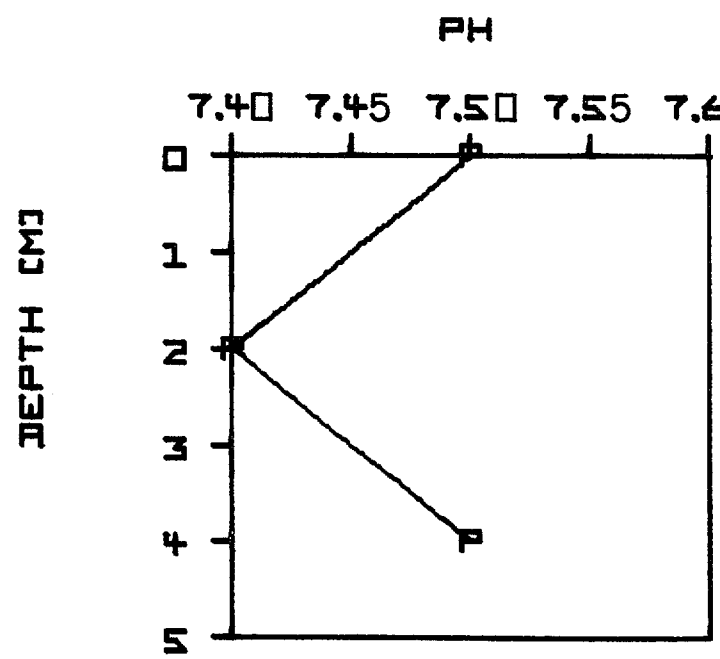
SAMPLE NUMBER 38
STATION NUMBER 86
DATE 05/02/1974





DEPTH [M]

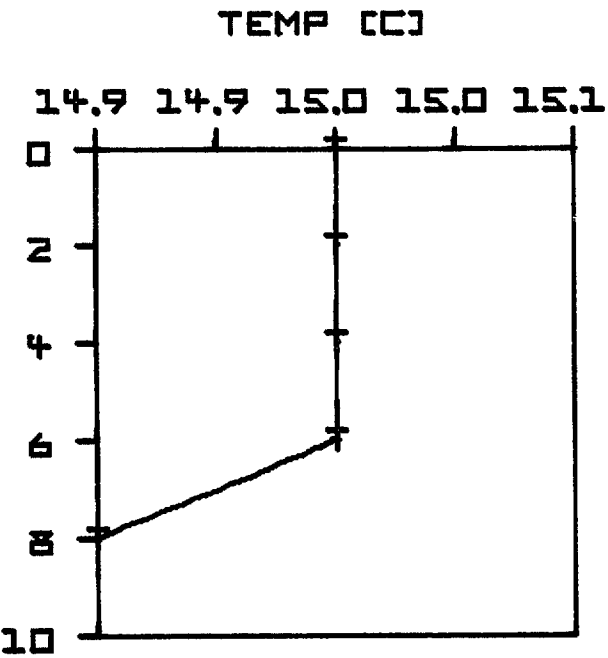


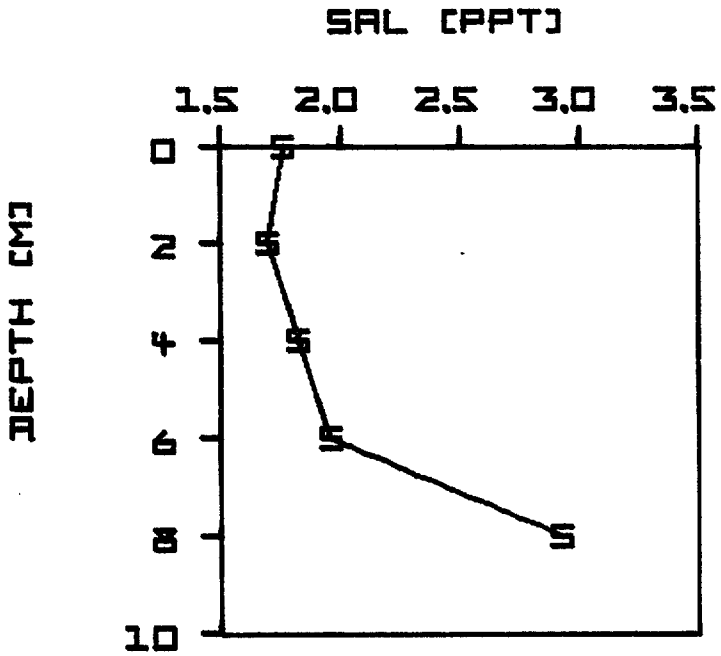


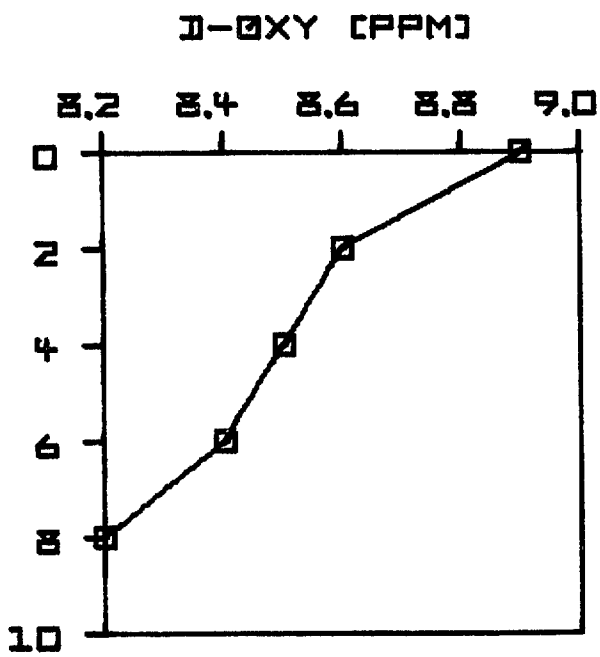
DEPTH [M]

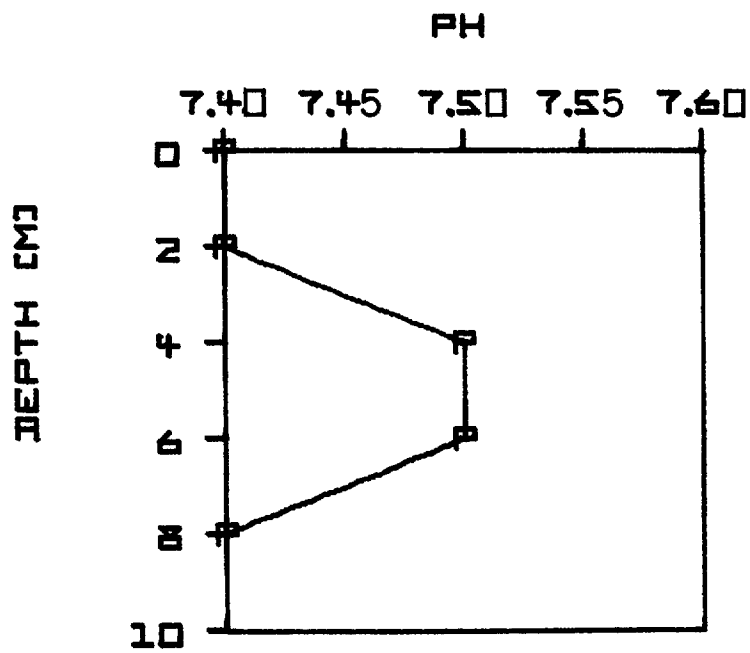
U. B. SURVEY

SAMPLE NUMBER 39
STATION NUMBER 5A
DATE 05/03/1974



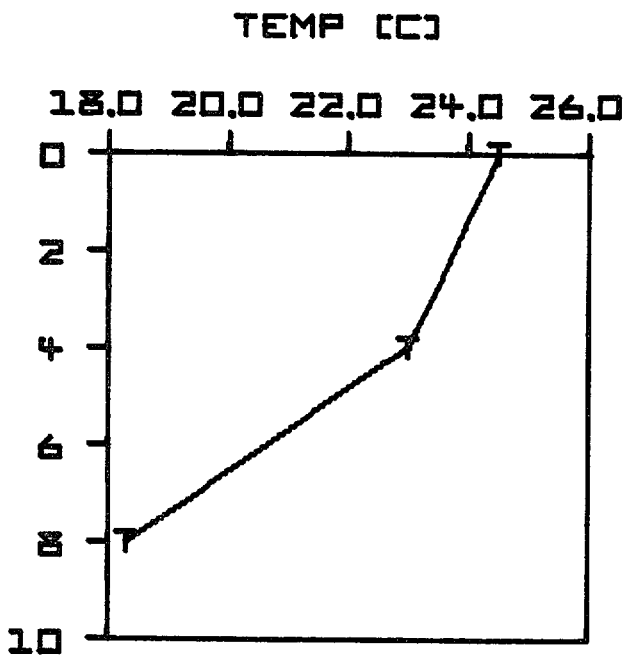


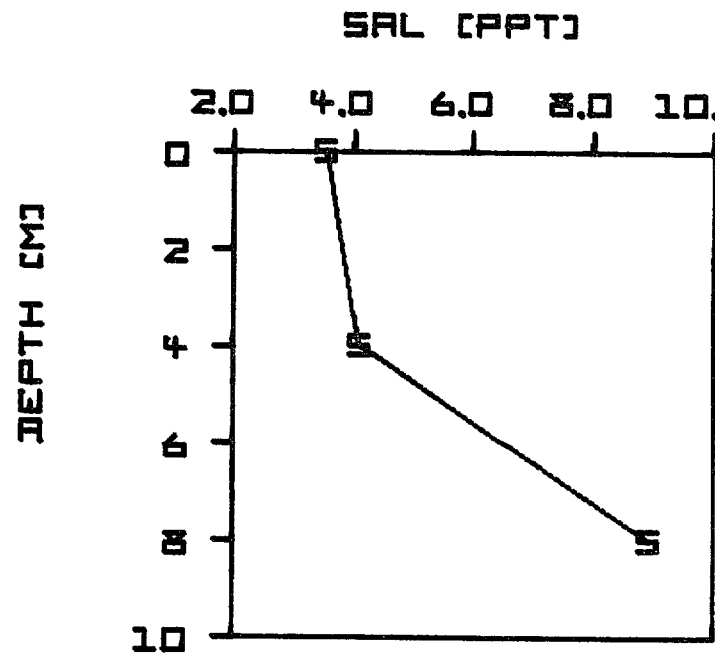


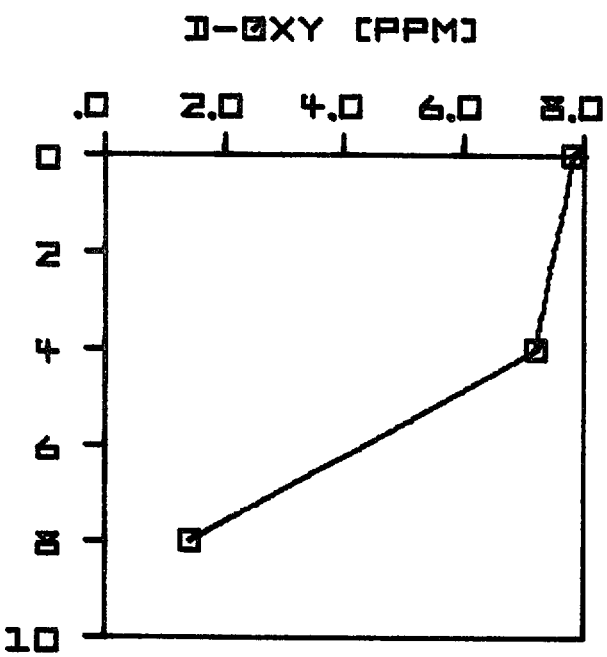


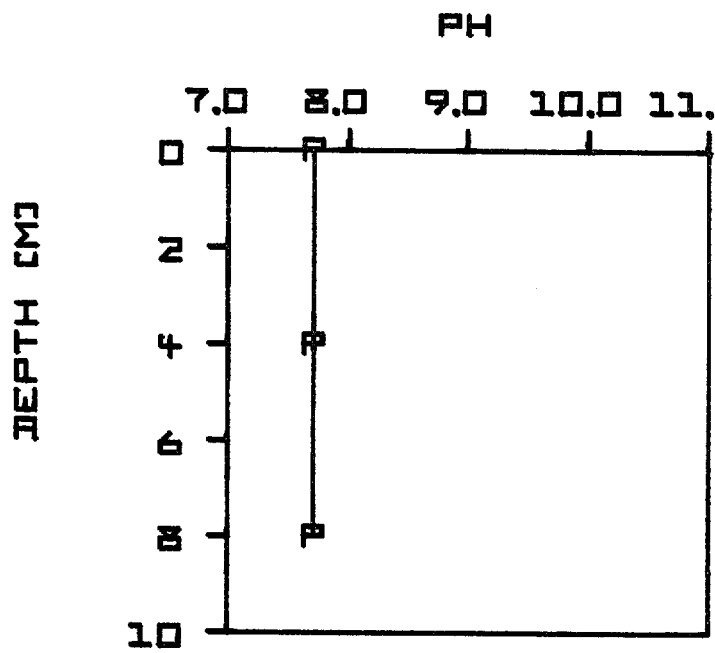
U. B. SURVEY

SAMPLE NUMBER 43
STATION NUMBER 76
DATE 06/11/1974



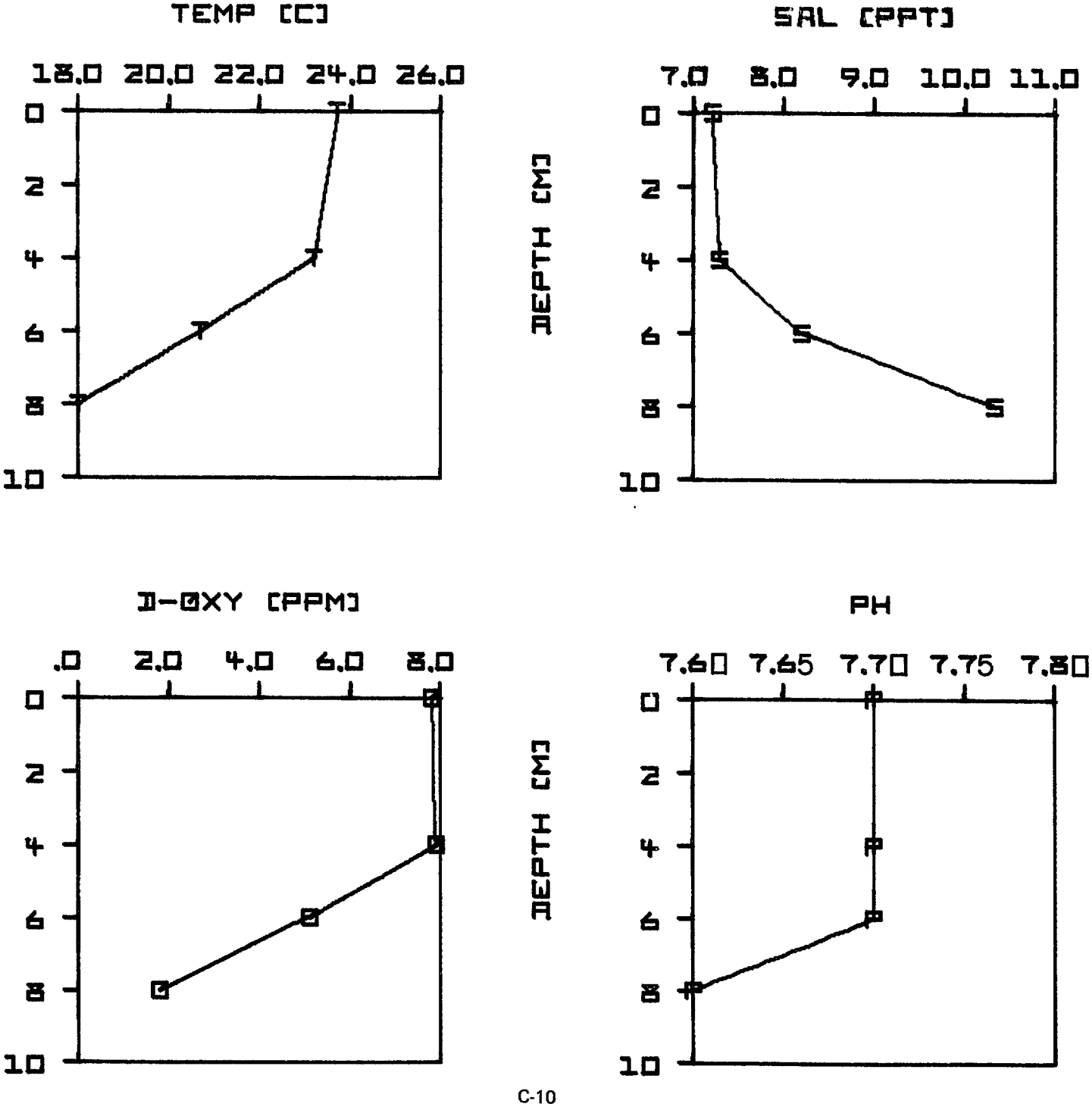






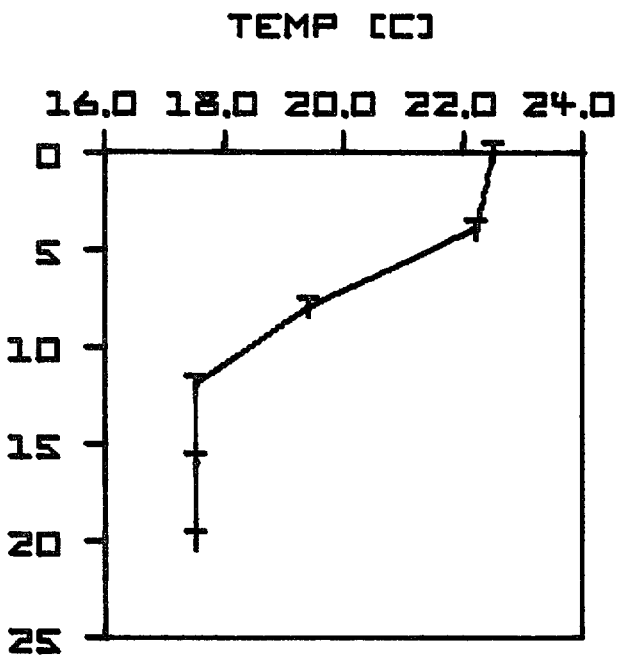
U. B. SURVEY

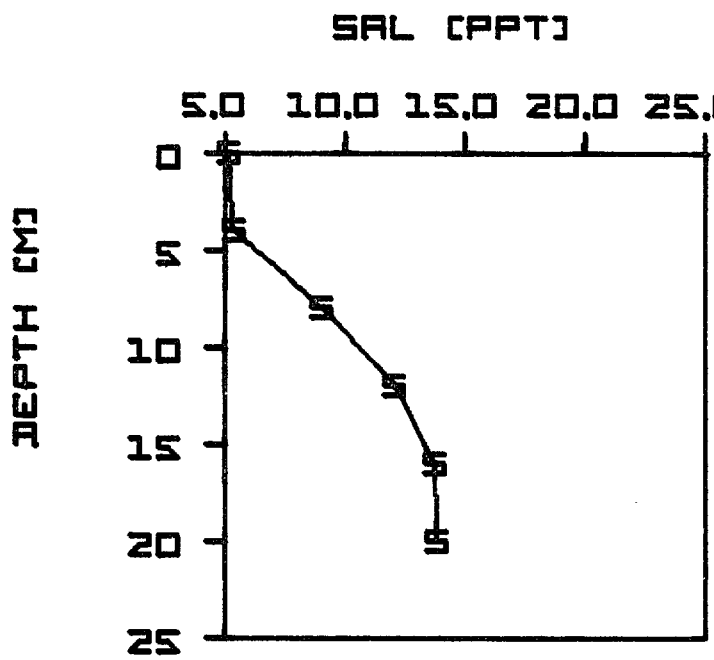
SAMPLE NUMBER 45
STATION NUMBER 110
DATE 06/11/1974

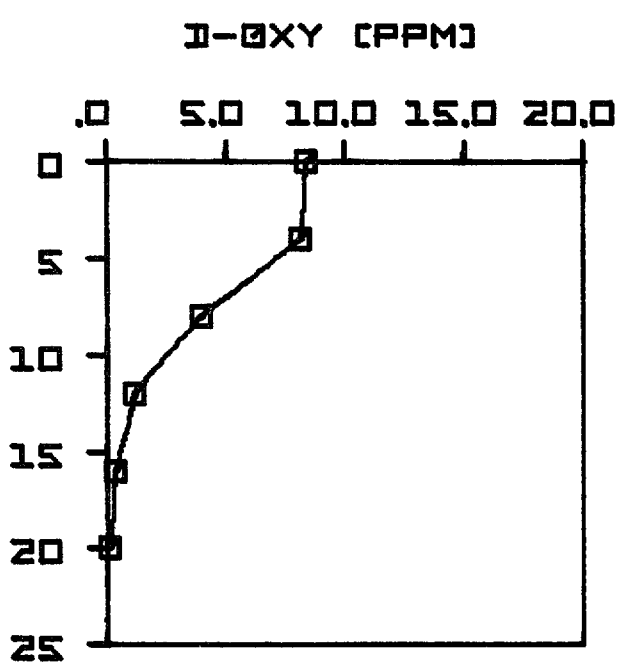


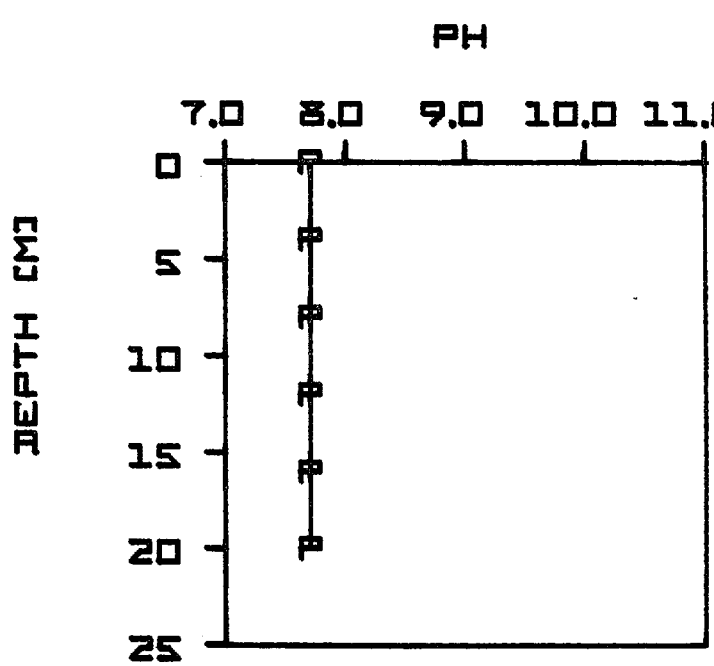
U. B. SURVEY

SAMPLE NUMBER 46
STATION NUMBER 11C
DATE 06/12/1974



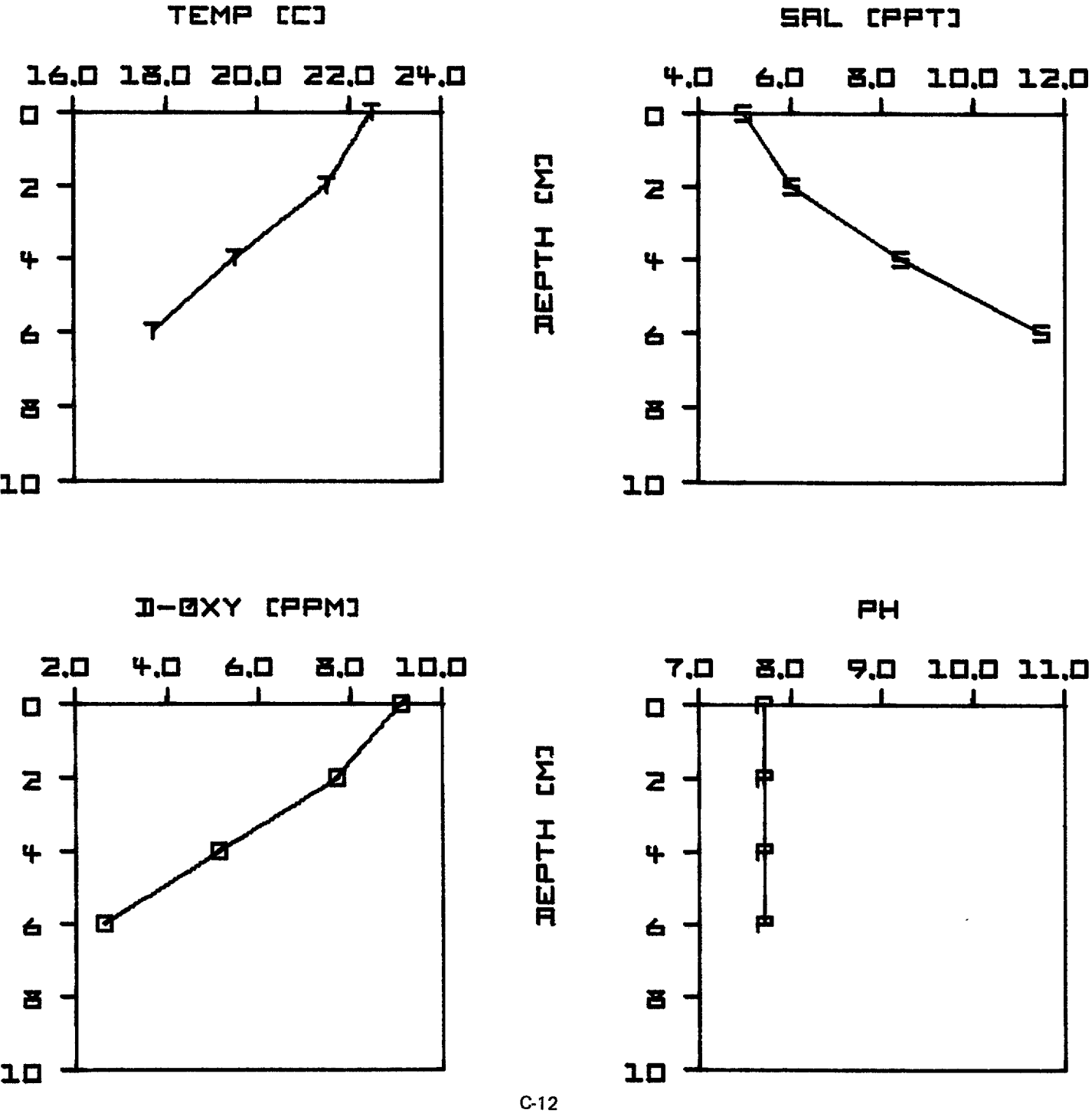






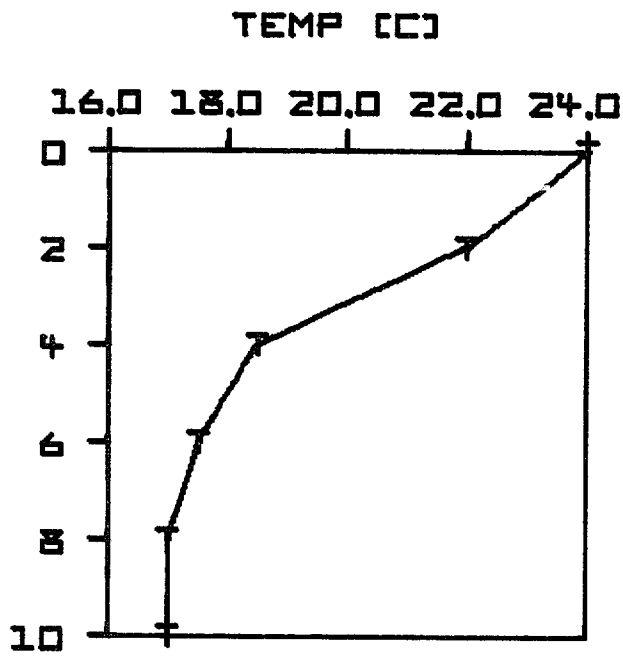
U. B. SURVEY

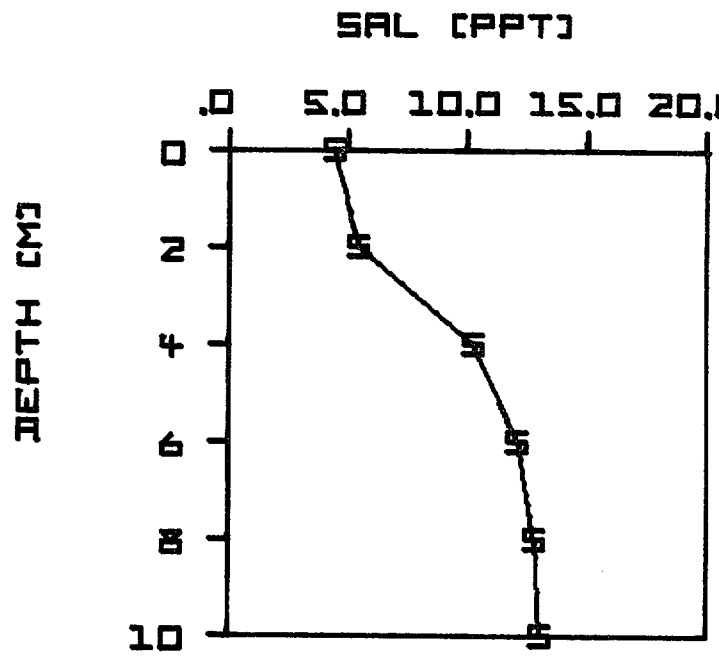
SAMPLE NUMBER 47
STATION NUMBER 11A
DATE 06/12/1974

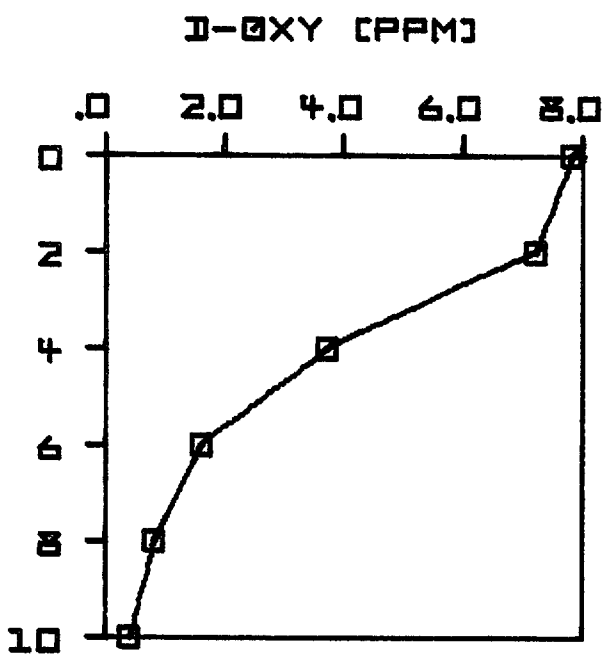


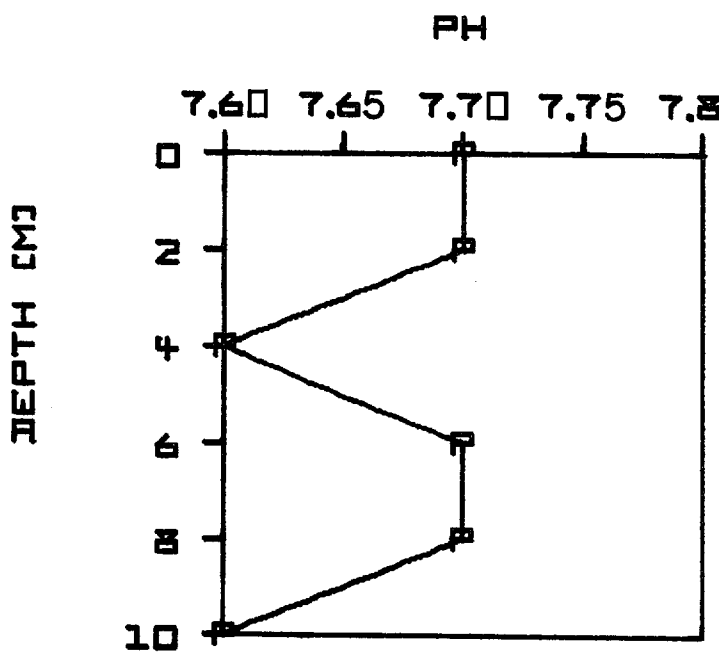
U. B. SURVEY

SAMPLE NUMBER 48
STATION NUMBER 106
DATE 06/12/1974



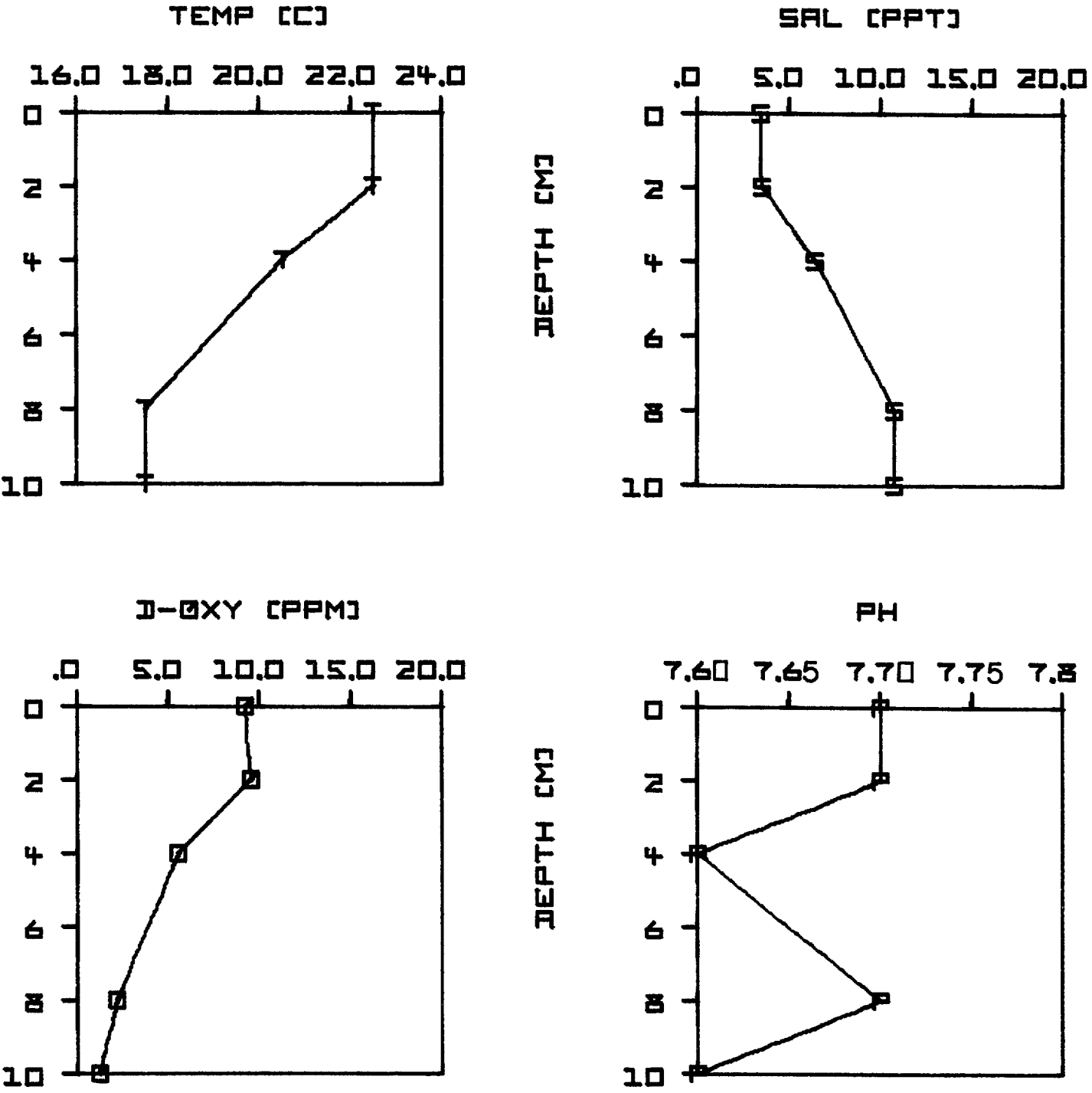






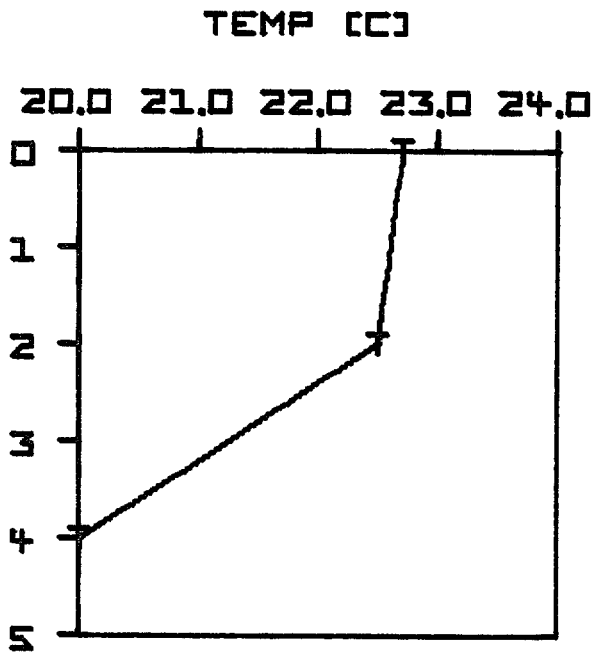
U. B. SURVEY

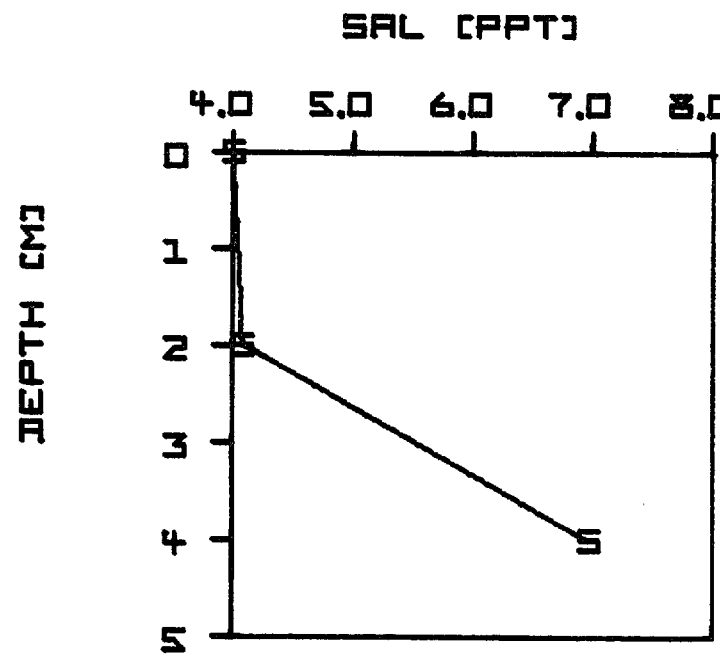
SAMPLE NUMBER 49
STATION NUMBER 8C
DATE 06/12/1974

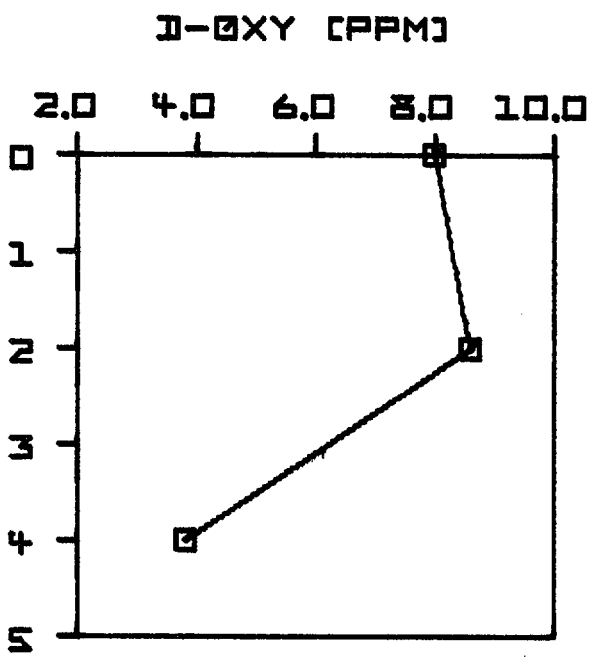


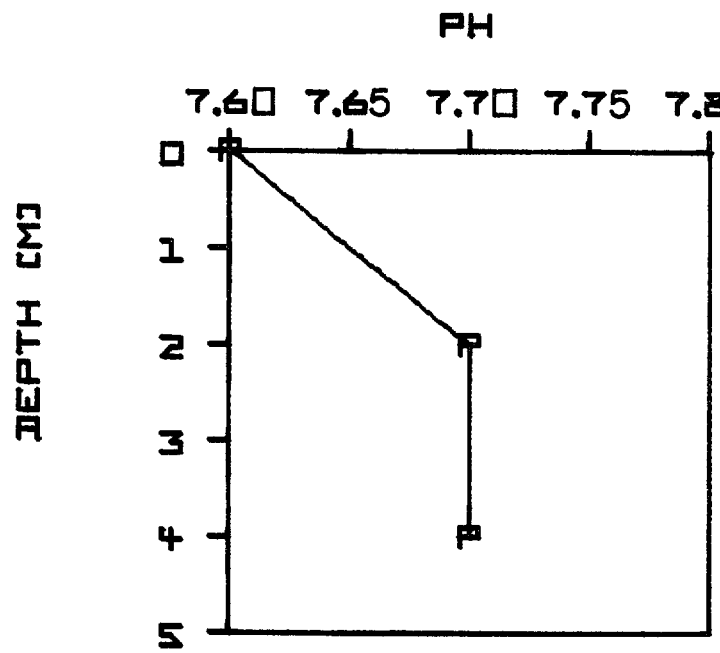
U. B. SURVEY

SAMPLE NUMBER 50
STATION NUMBER 86
DATE 06/12/1974



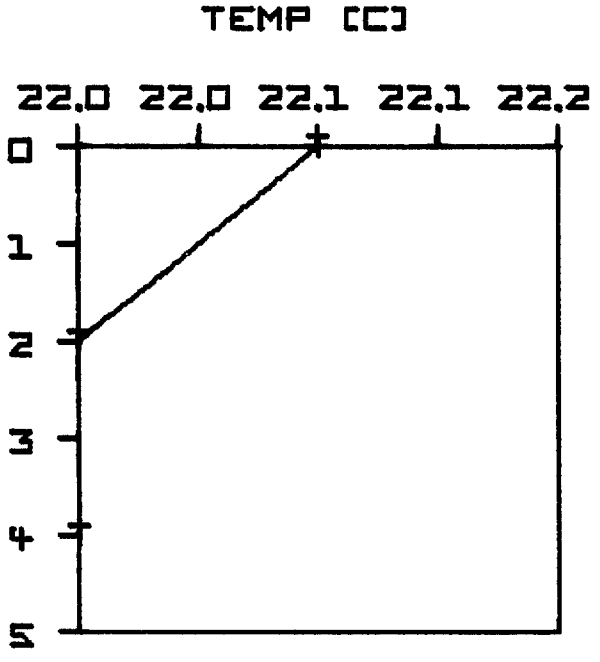


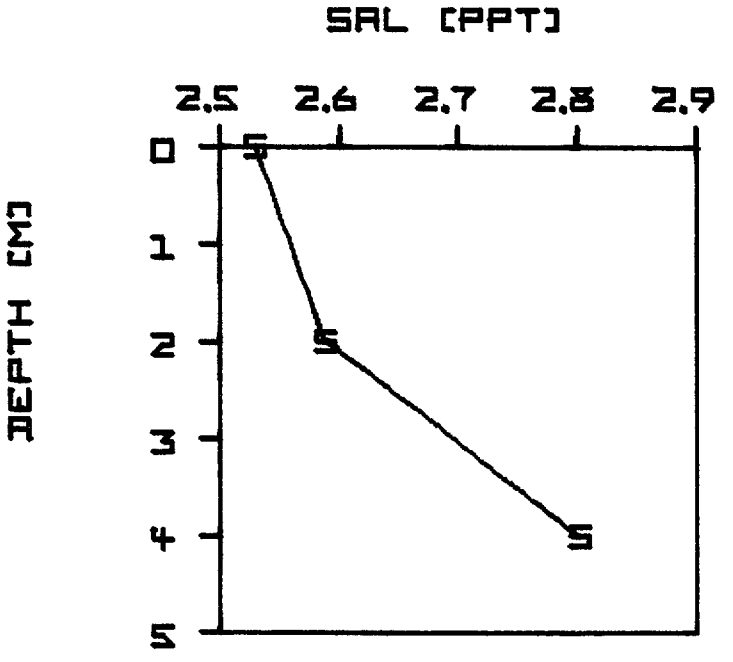


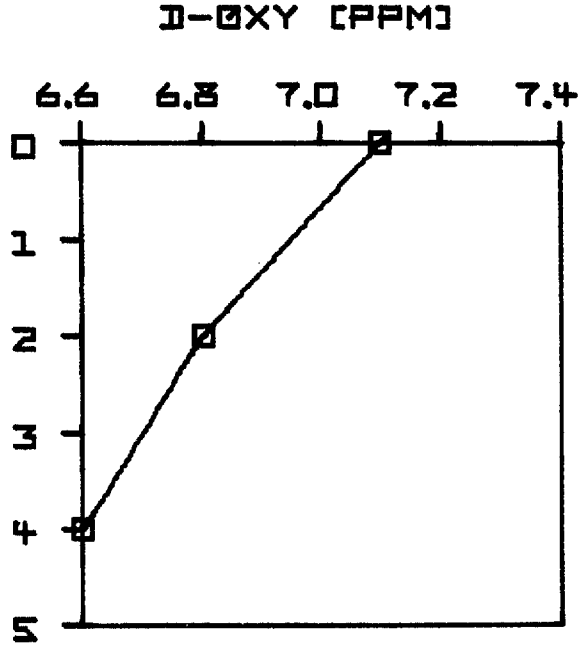


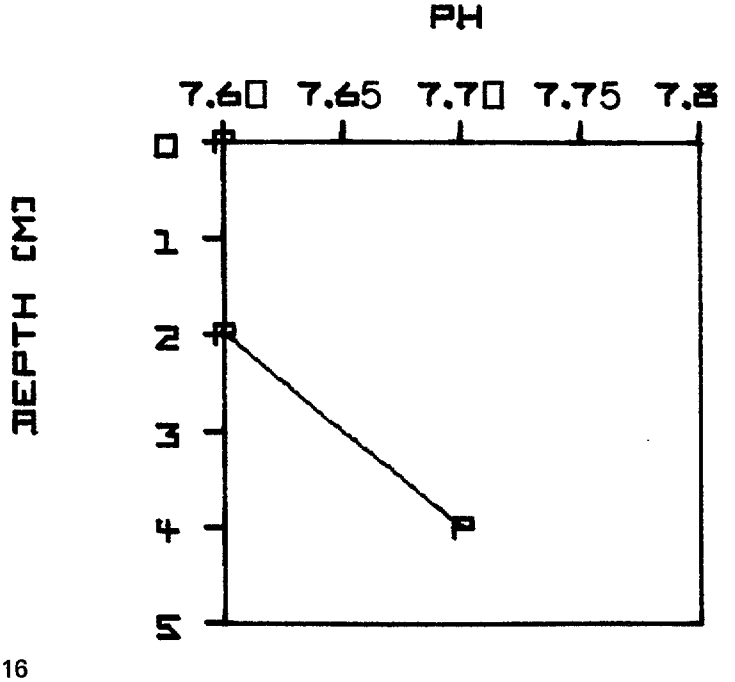
U. B. SURVEY

SAMPLE NUMBER 52
STATION NUMBER 5A
DATE 06/13/1974



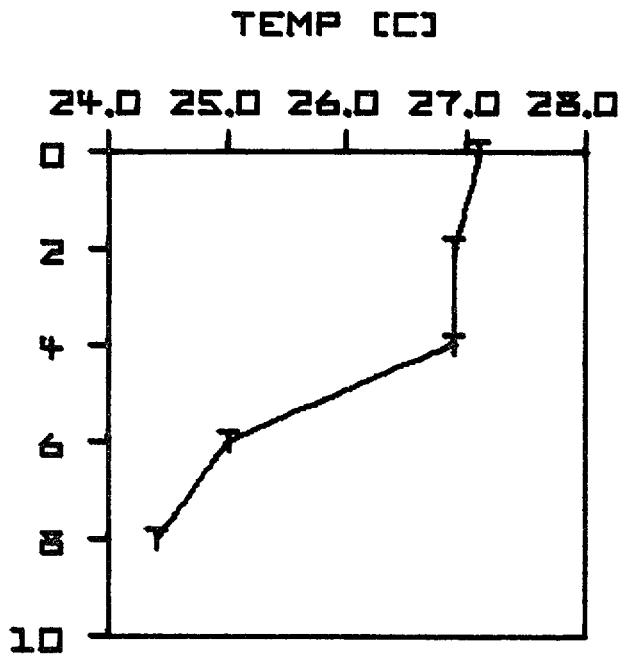


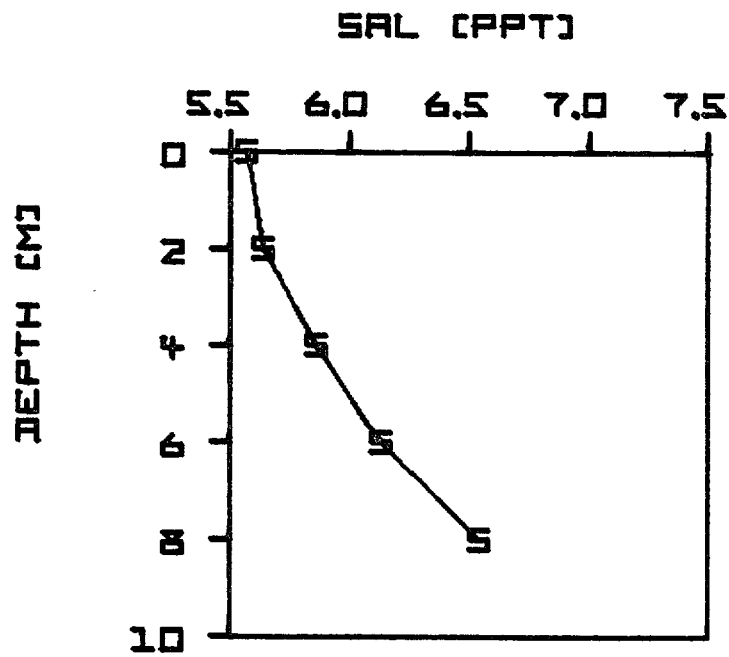


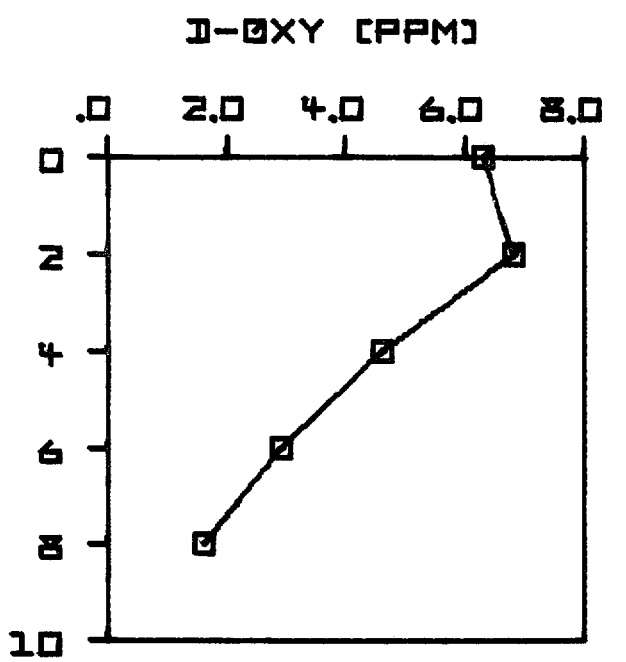


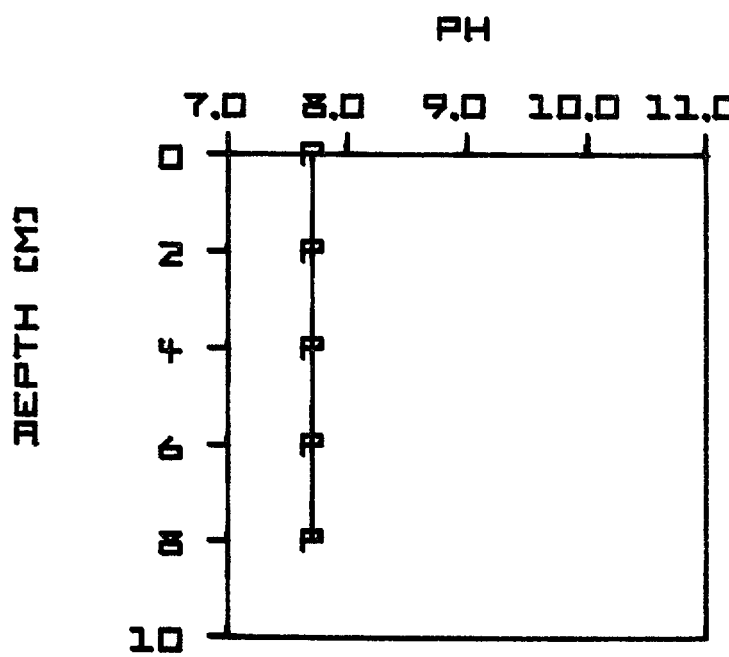
U. B. SURVEY

SAMPLE NUMBER 55
STATION NUMBER 78
DATE 07/08/1974



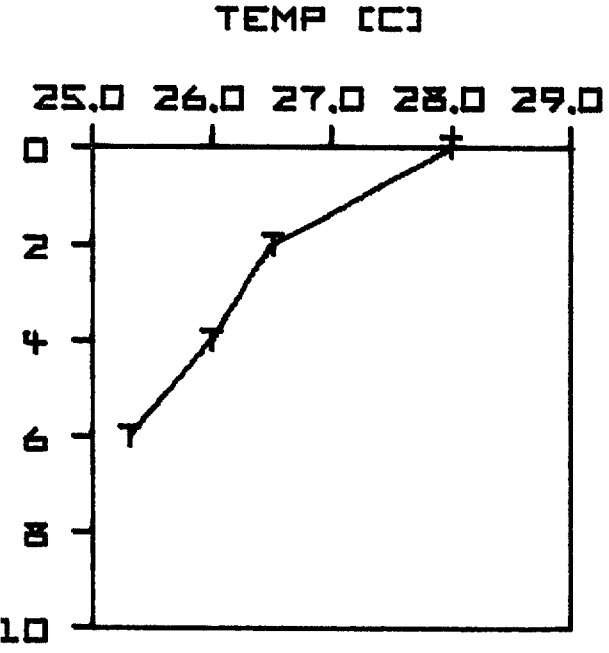


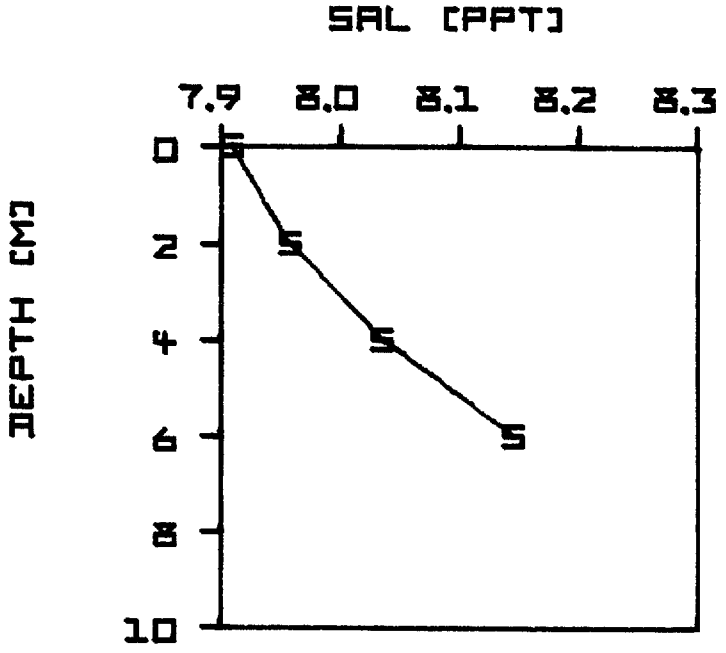


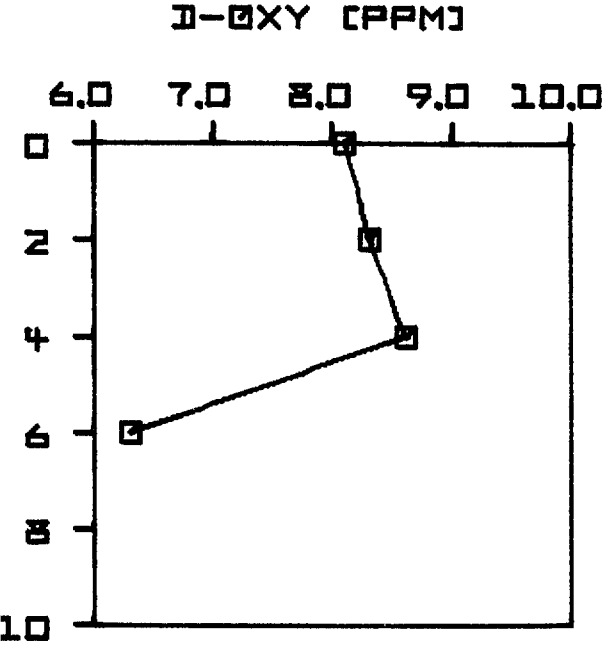


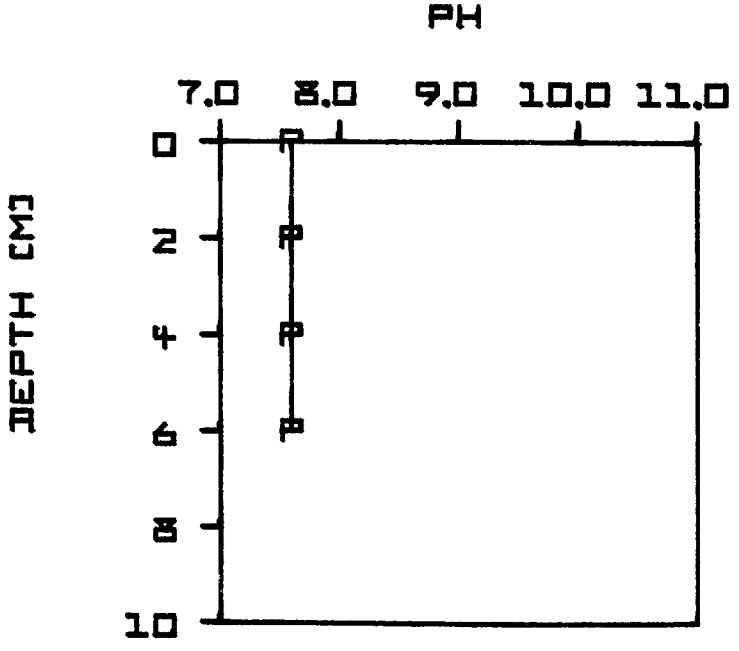
U. B. SURVEY

SAMPLE NUMBER 56
STATION NUMBER 11D
DATE 07/08/1974



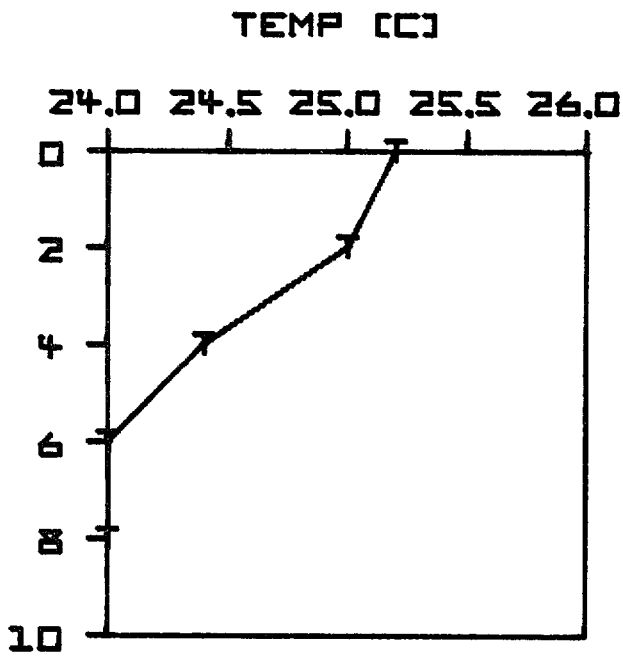


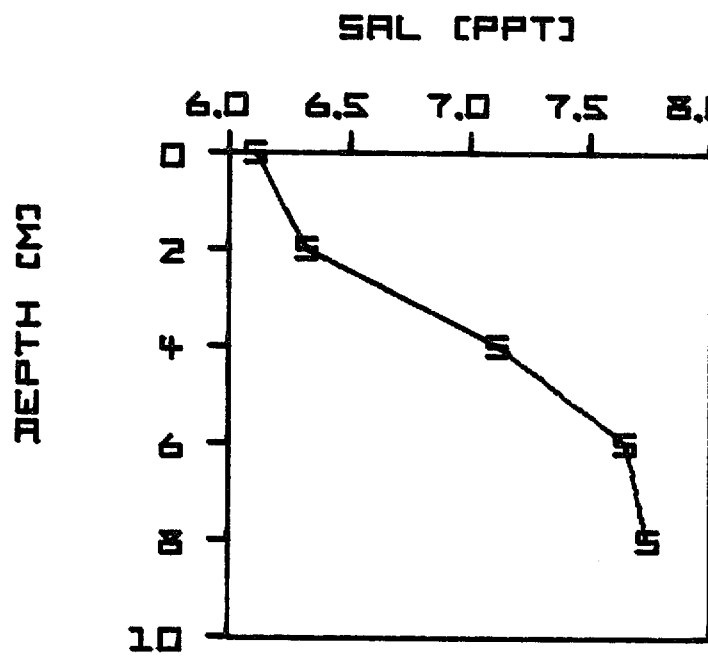


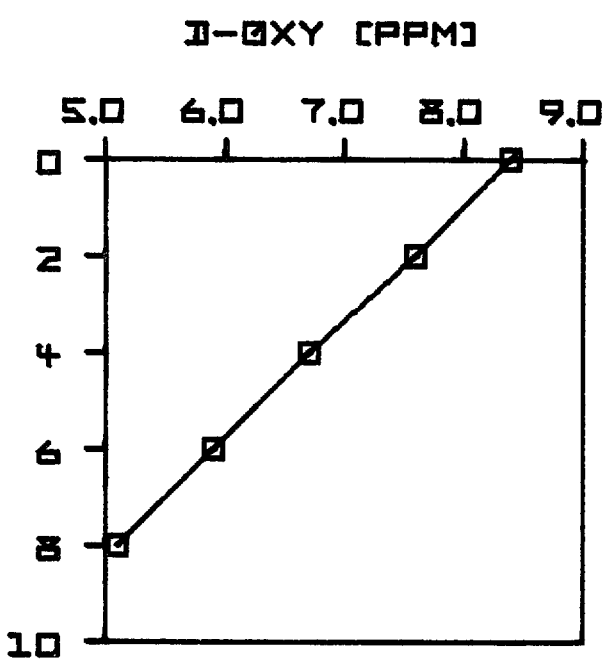


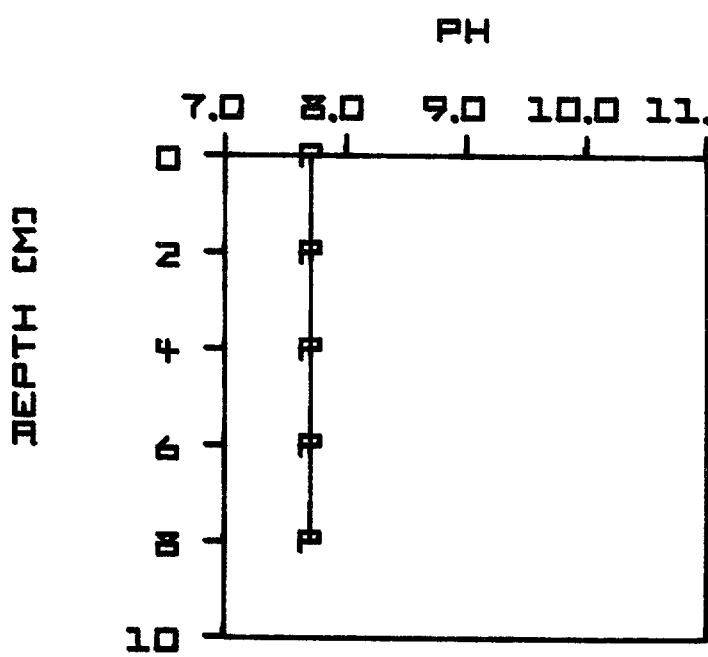
U. B. SURVEY

SAMPLE NUMBER 58
STATION NUMBER 11A
DATE 07/09/1974



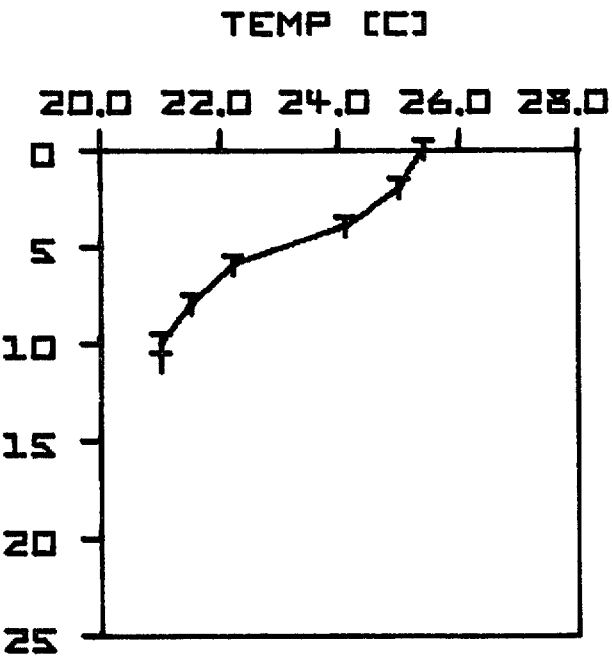


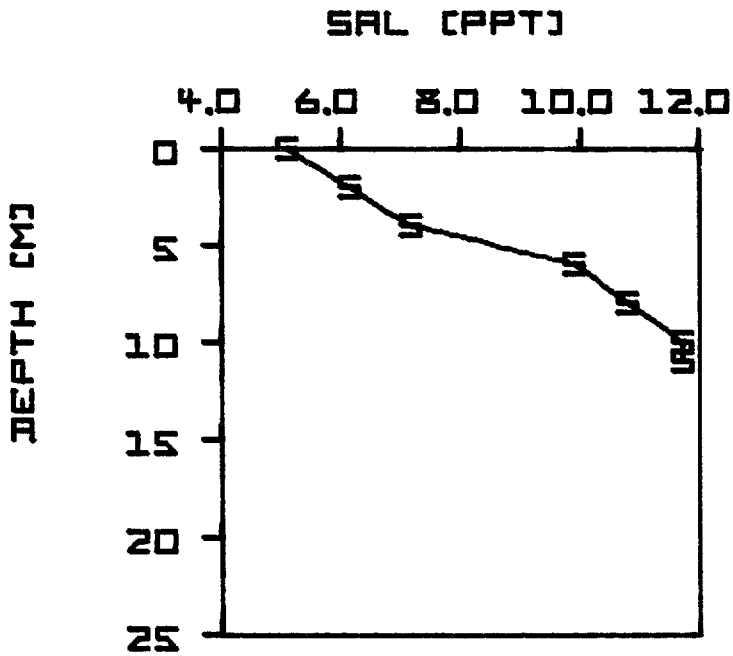


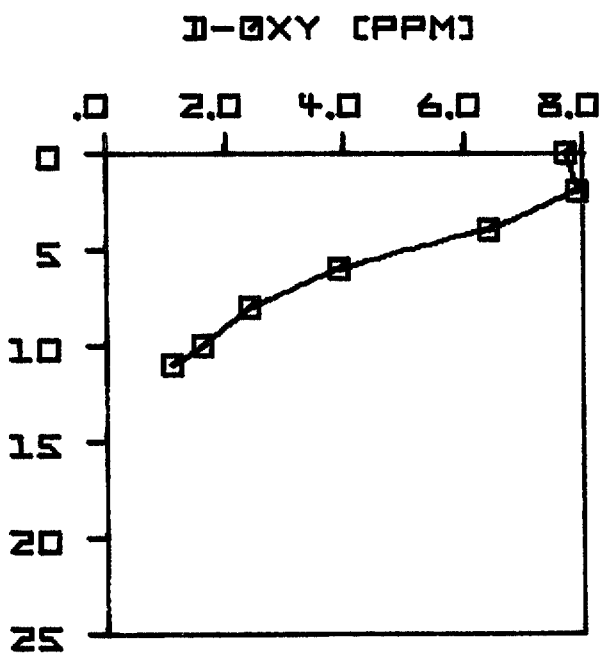


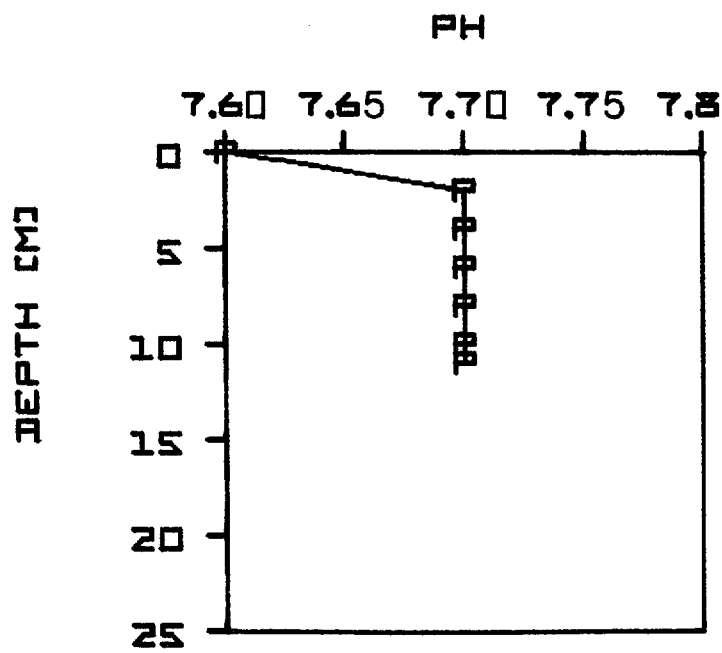
U. B. SURVEY

SAMPLE NUMBER 59
STATION NUMBER 108
DATE 07/09/1974



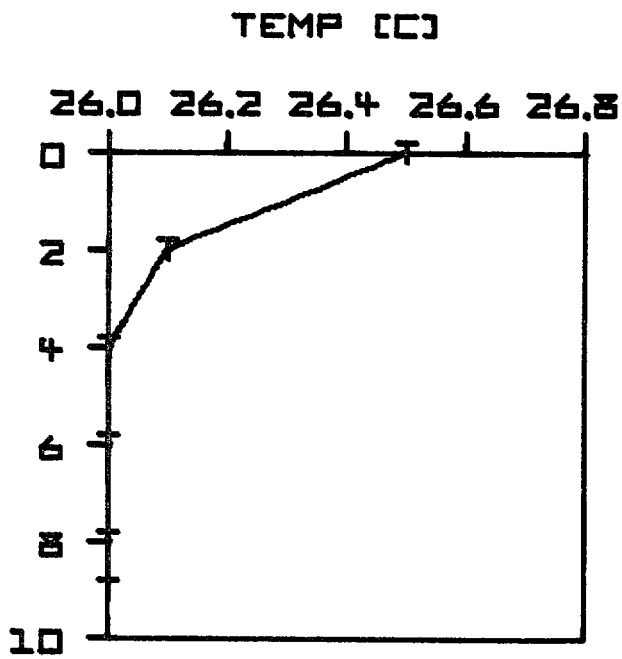


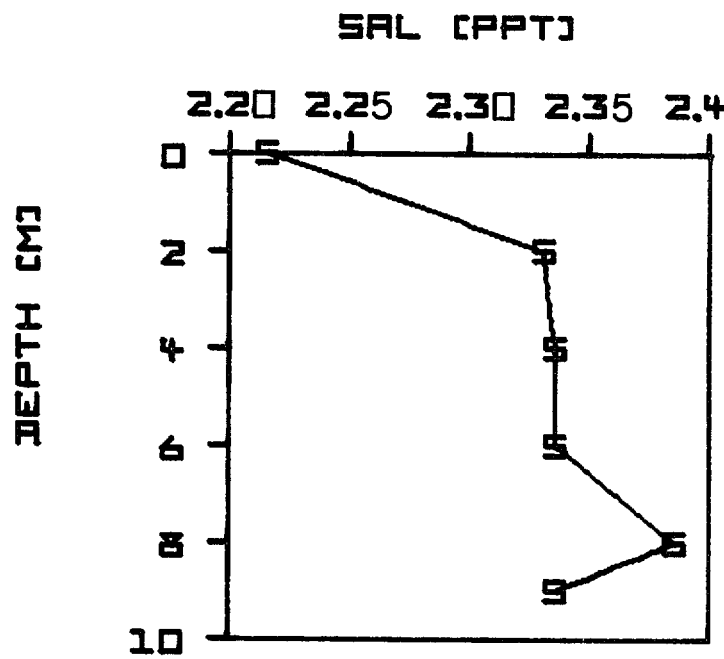


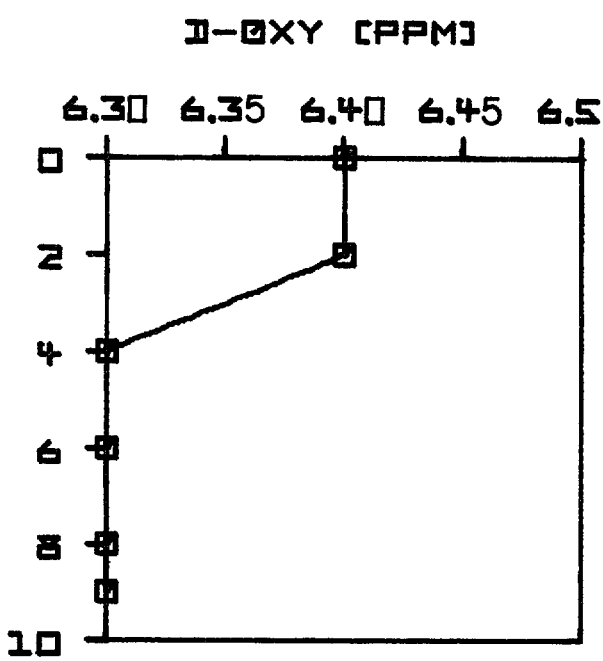


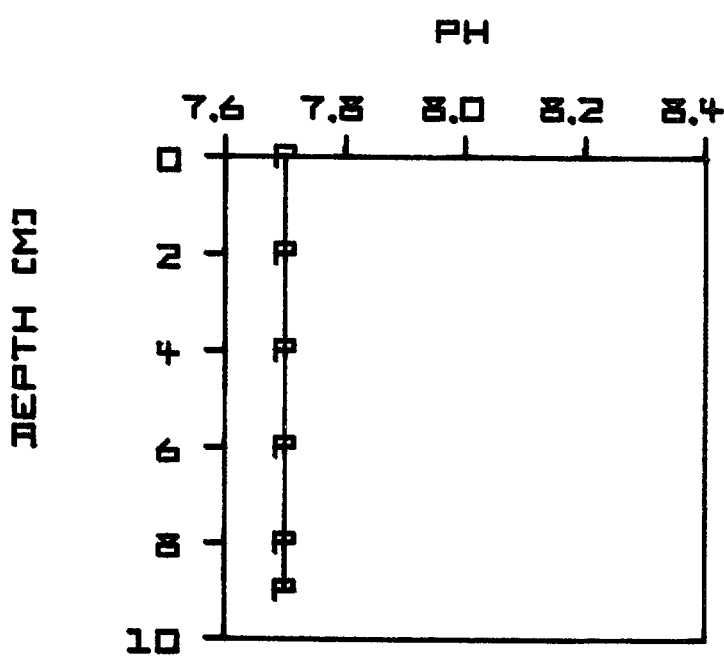
U. B. SURVEY

SAMPLE NUMBER 61
STATION NUMBER 5A
DATE 07/09/1974



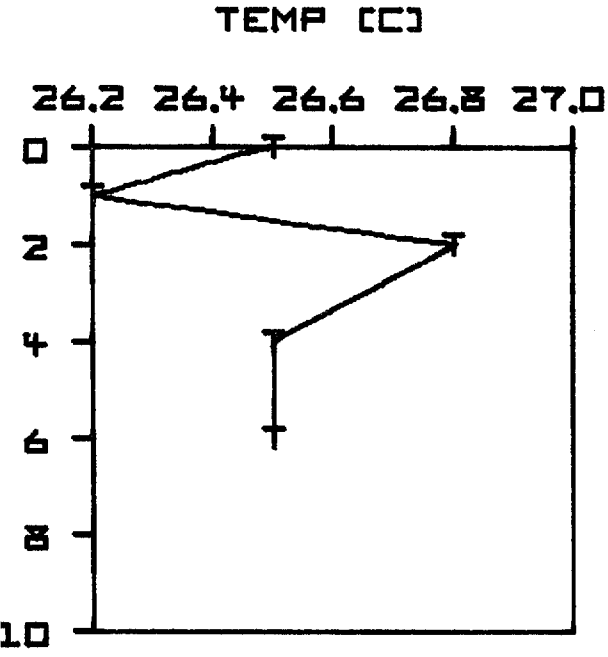


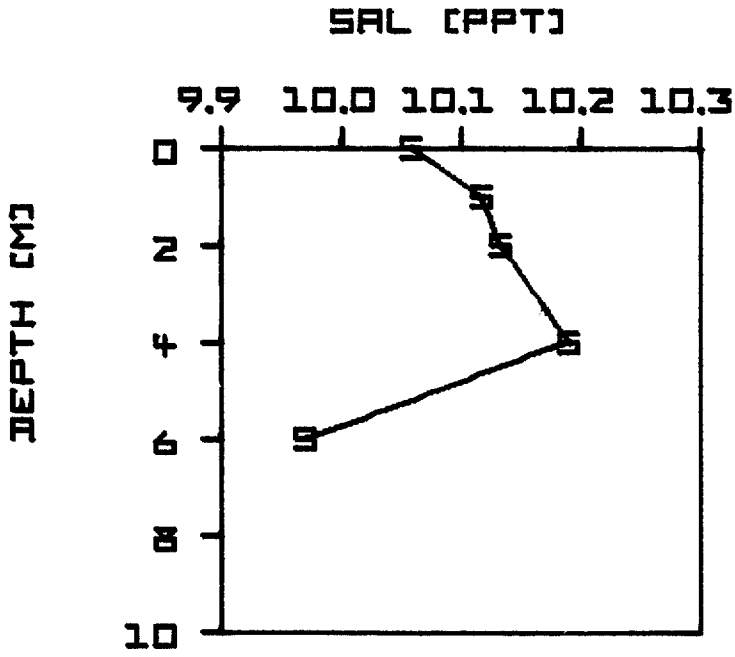


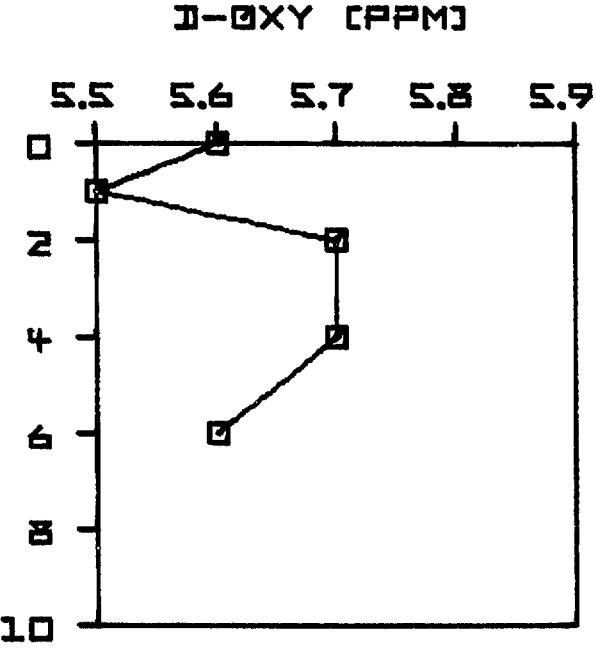


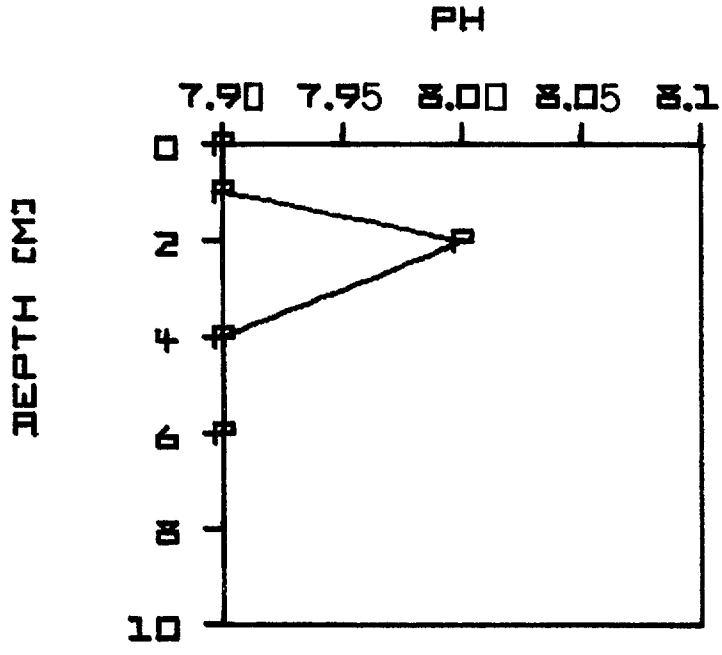
U. B. SURVEY

SAMPLE NUMBER 64
STATION NUMBER 11D
DATE 09/18/1974



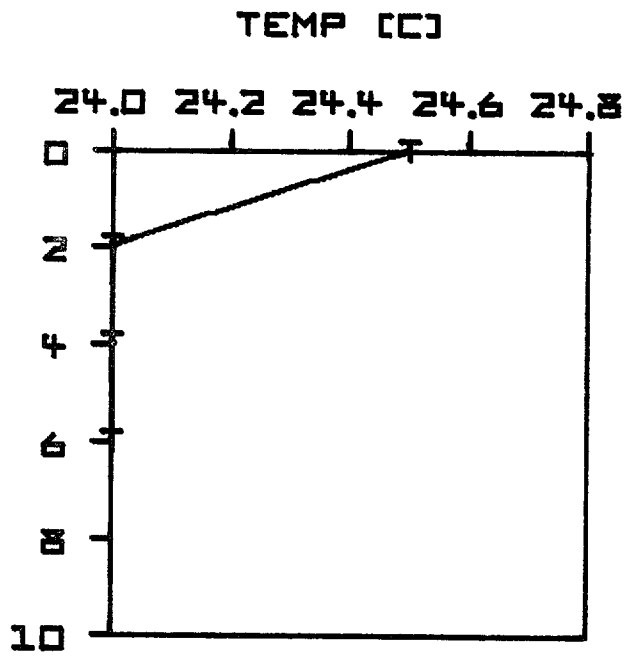


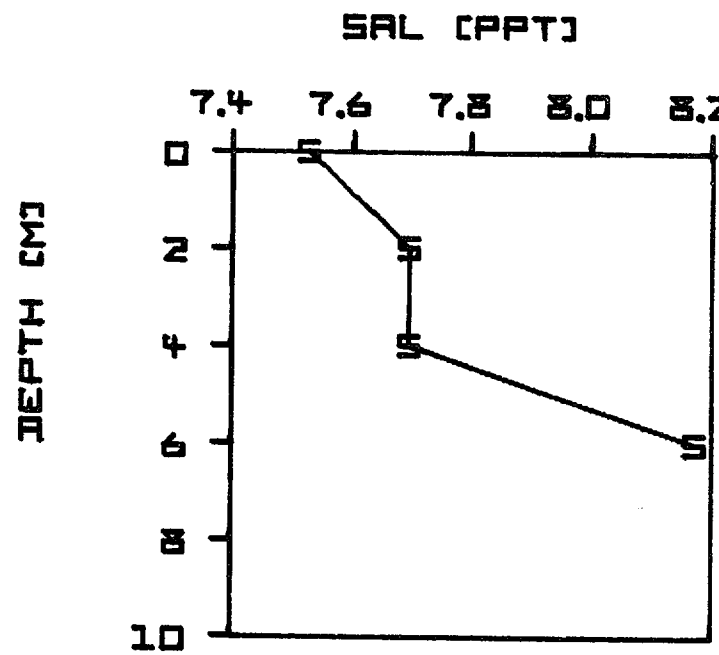


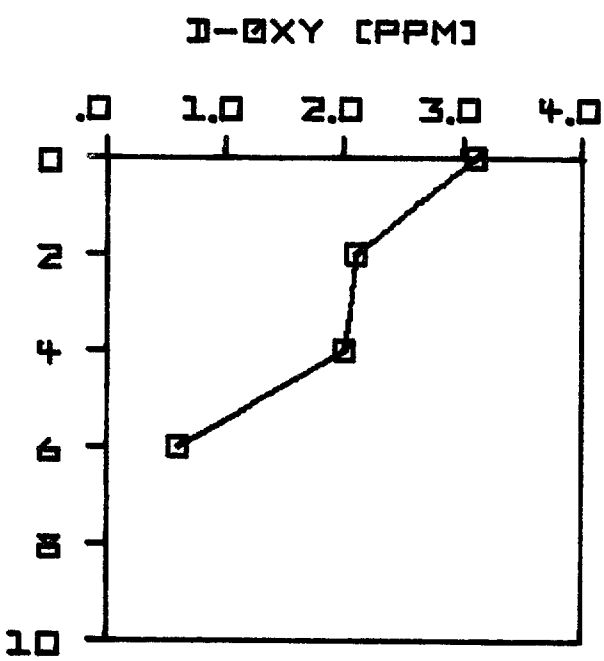


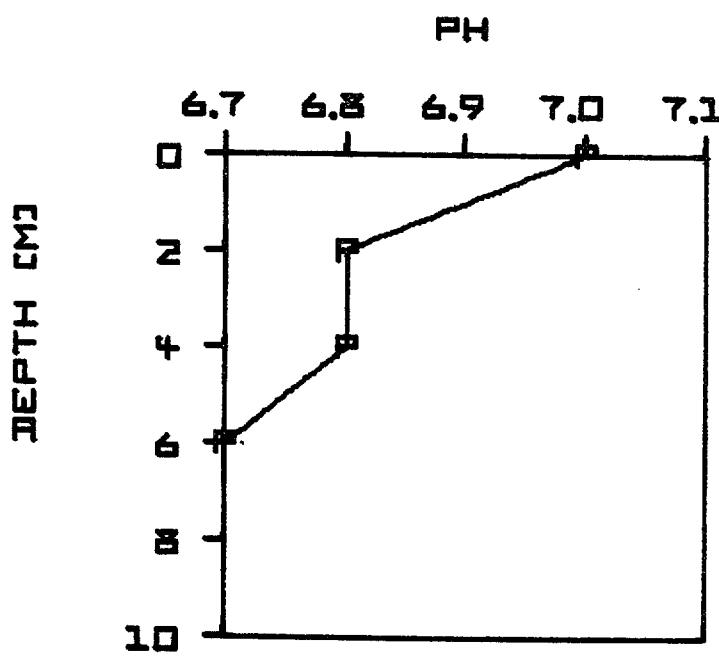
U. B. SURVEY

SAMPLE NUMBER 65
STATION NUMBER 78
DATE 09/18/1974



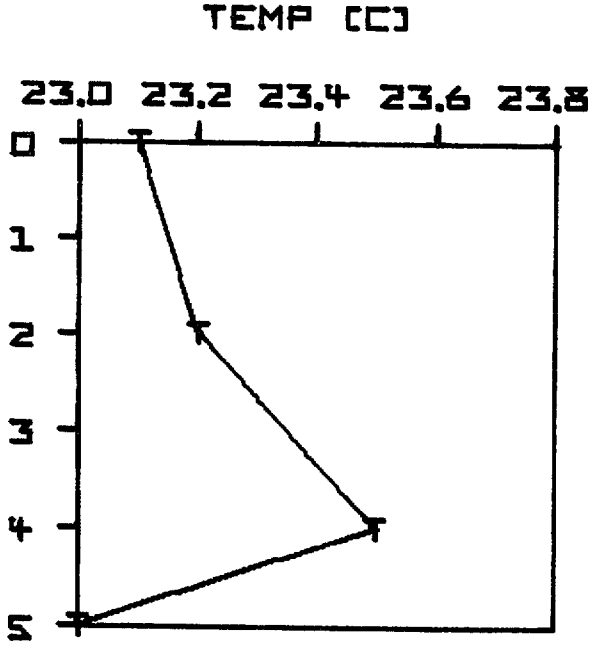


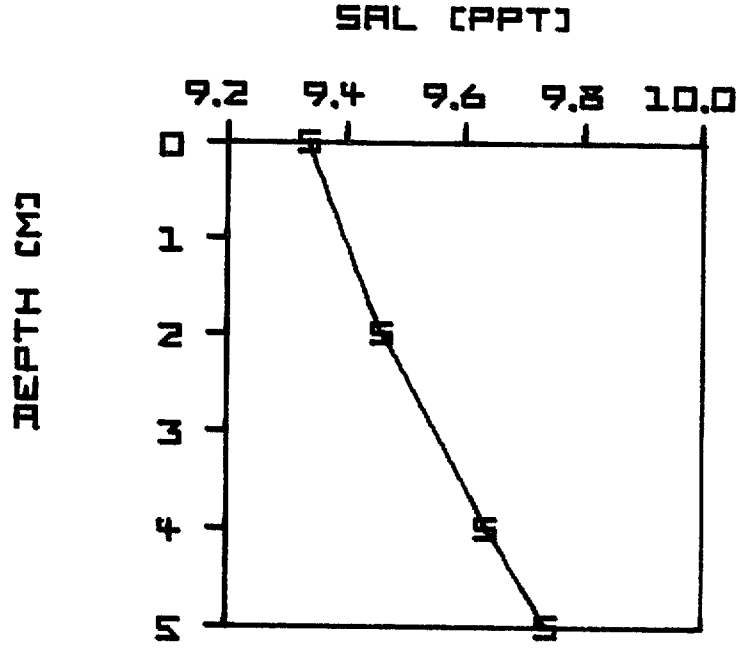


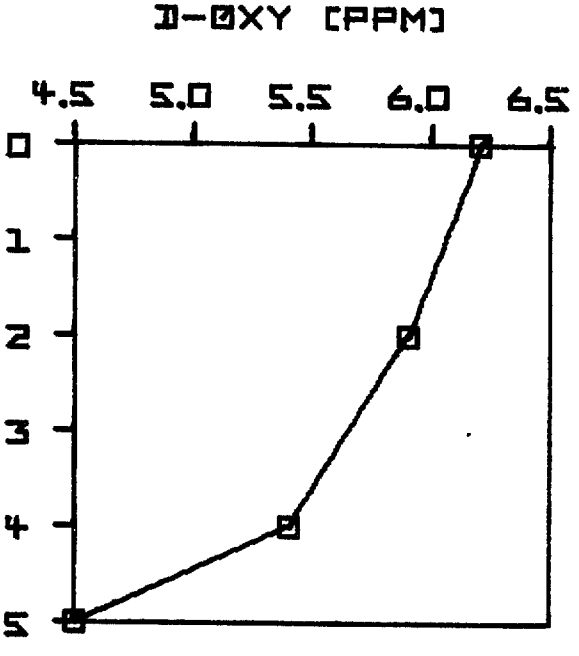


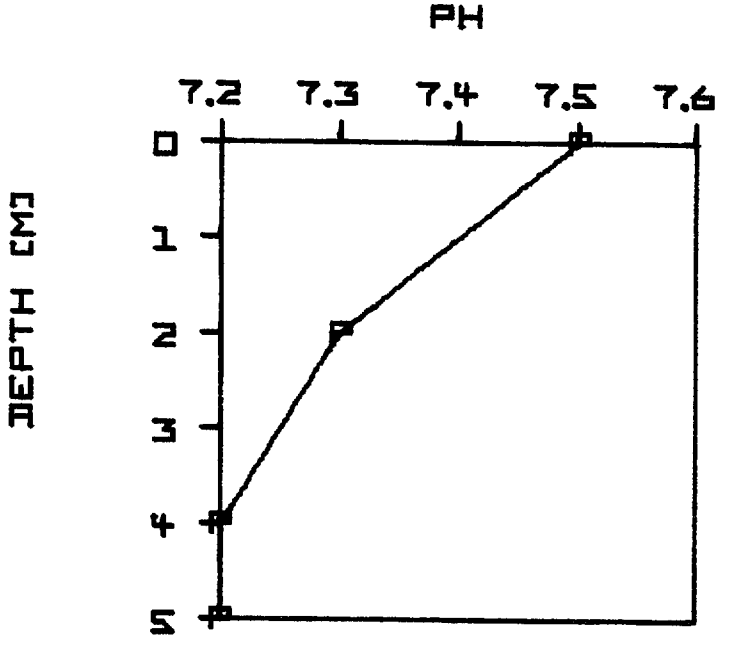
U. B. SURVEY

SAMPLE NUMBER 66
STATION NUMBER 11A
DATE 09/19/1974



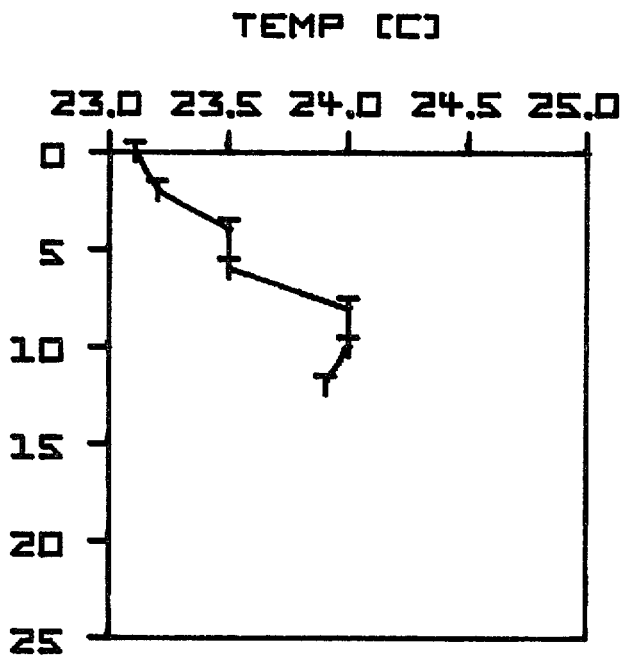


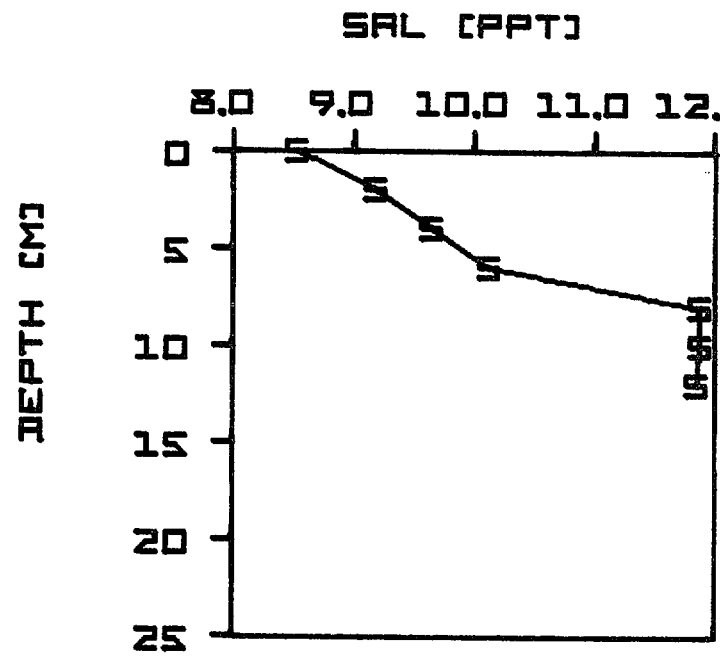


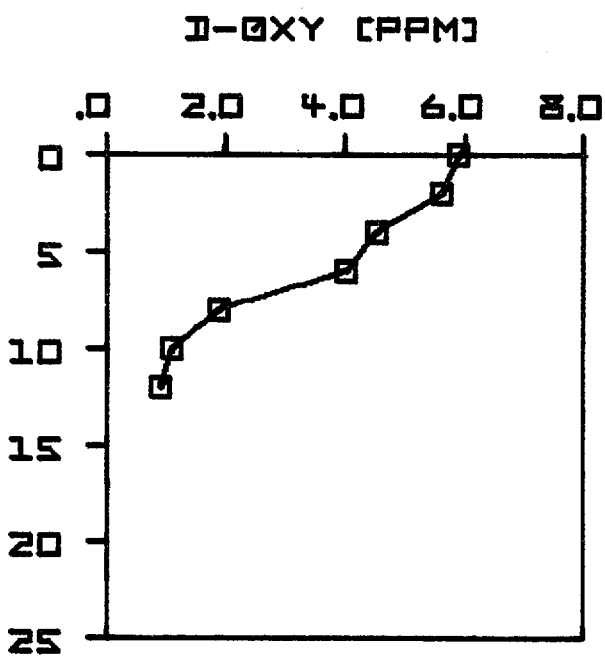


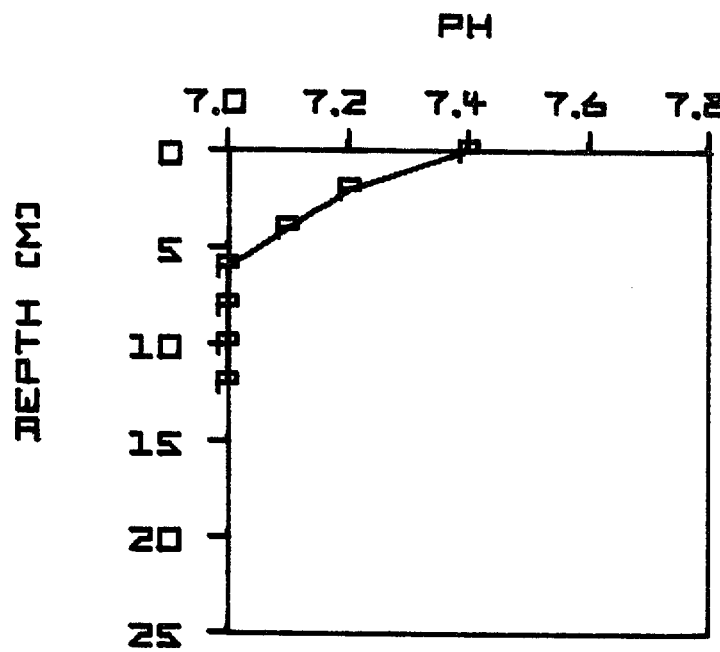
U. B. SURVEY

SAMPLE NUMBER 68
STATION NUMBER 106
DATE 09/19/1974



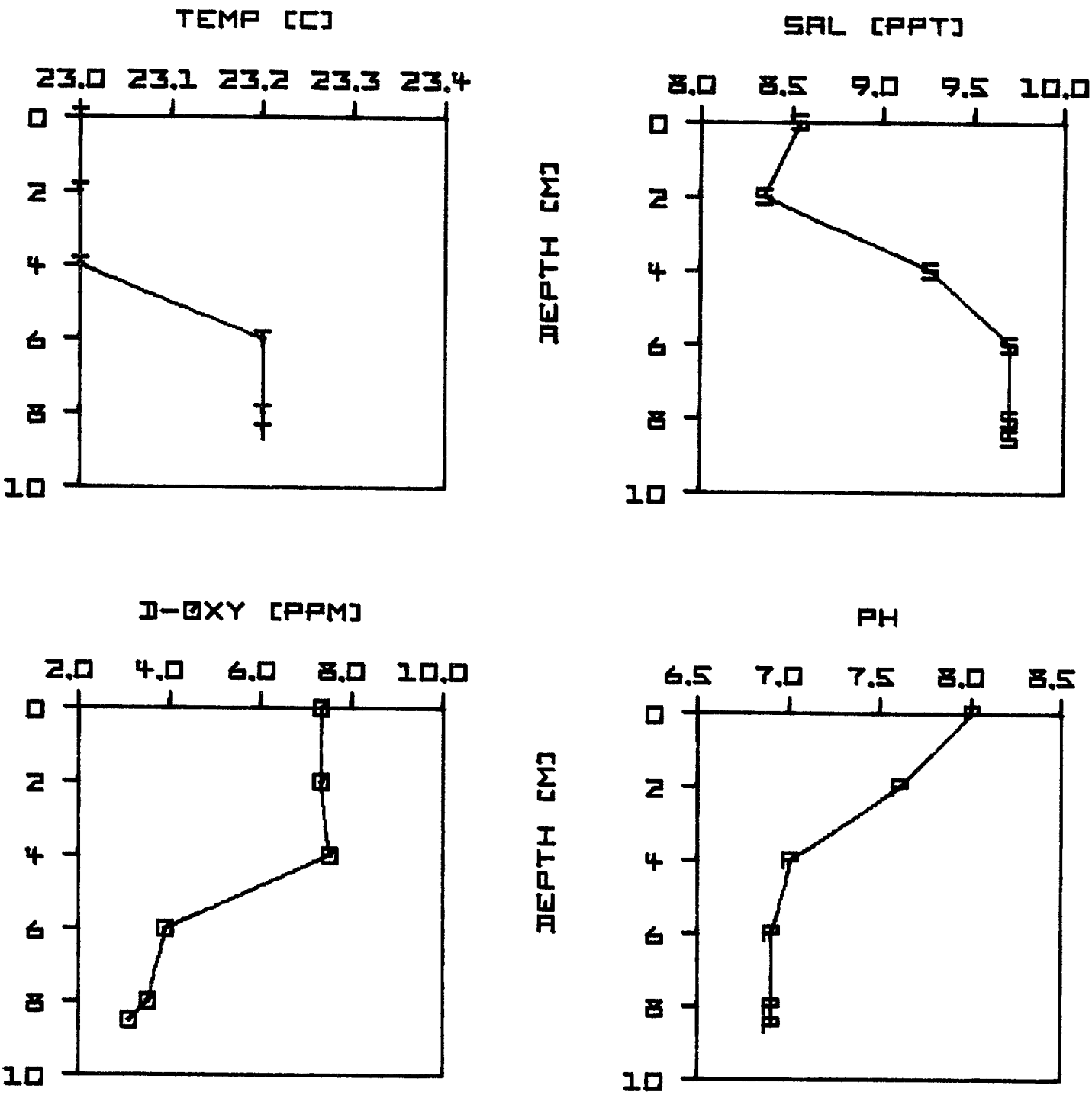






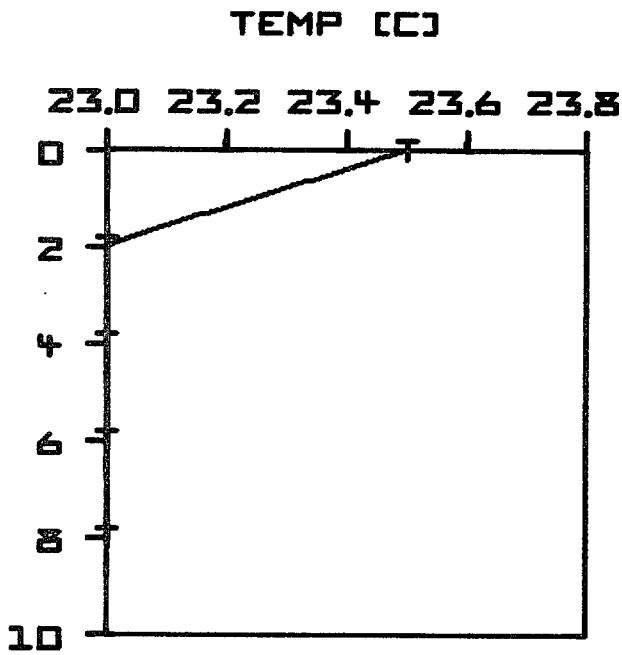
U. B. SURVEY

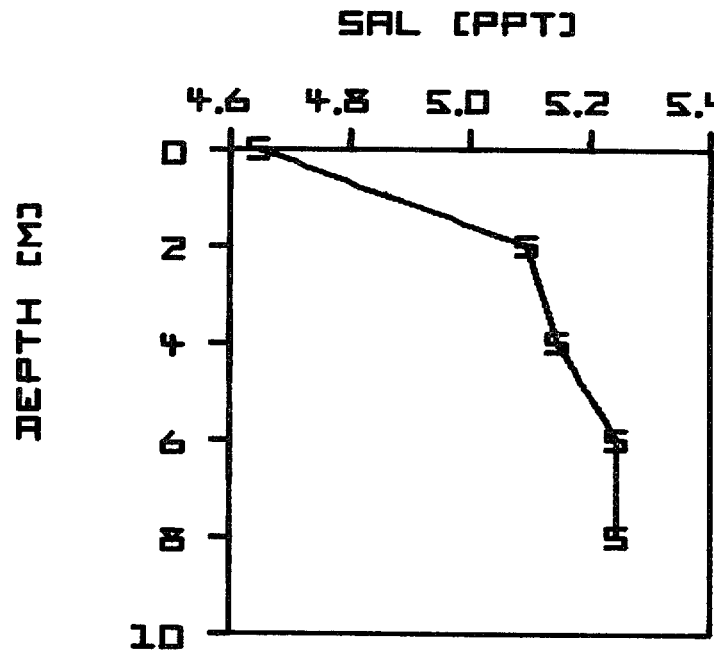
SAMPLE NUMBER 69
STATION NUMBER 8C
DATE 09/19/1974

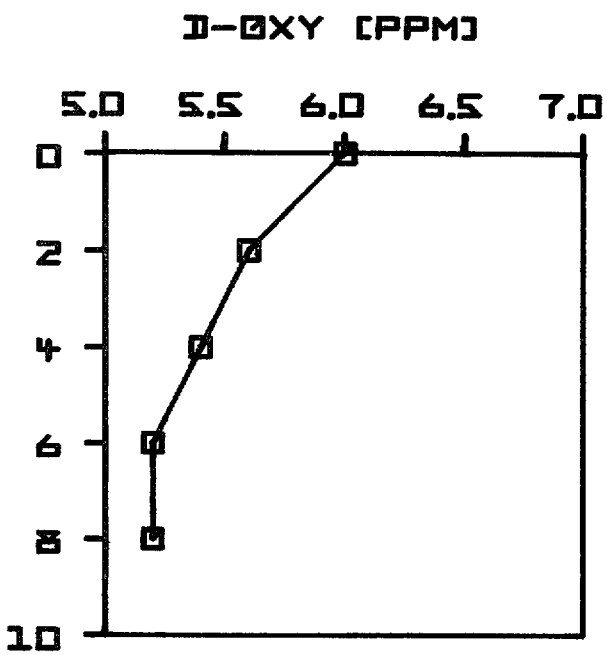


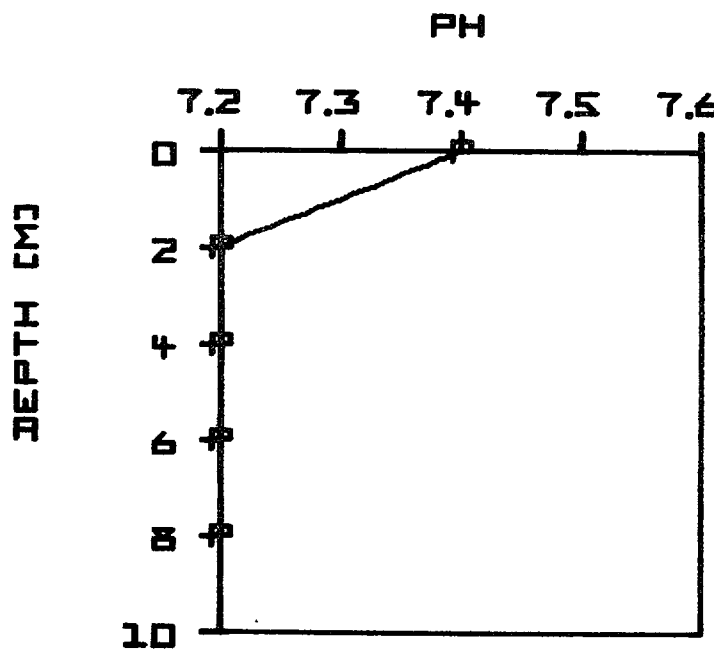
U. B. SURVEY

SAMPLE NUMBER 70
STATION NUMBER 5A
DATE 09/19/1974



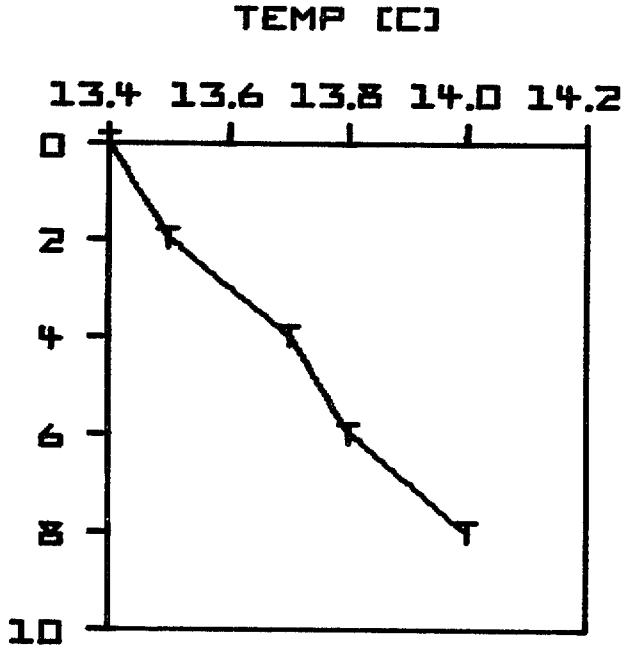


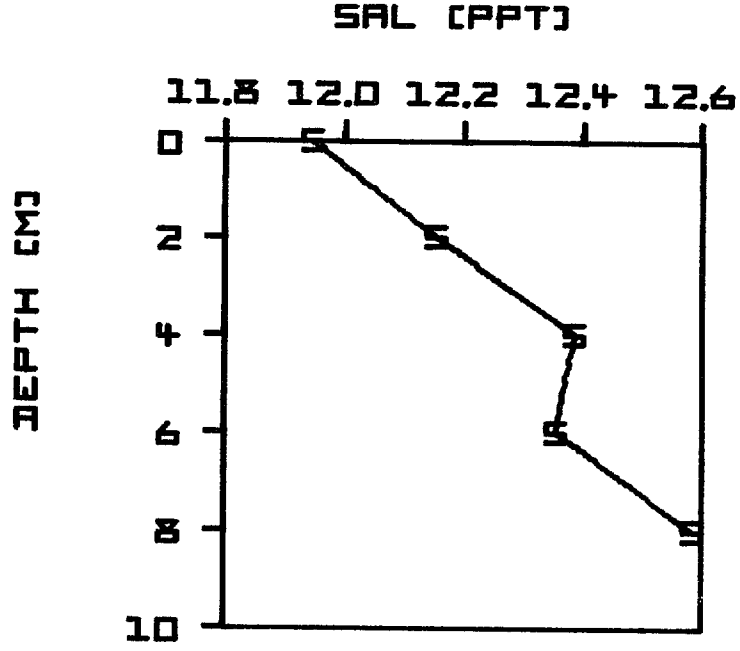


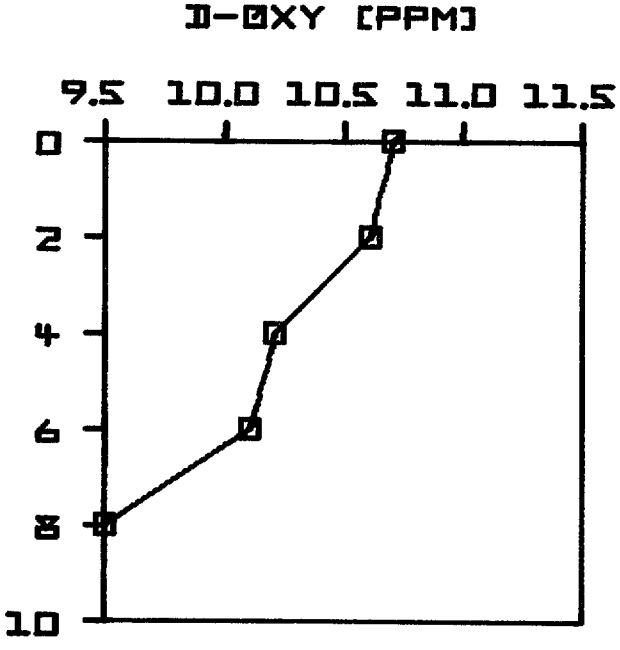


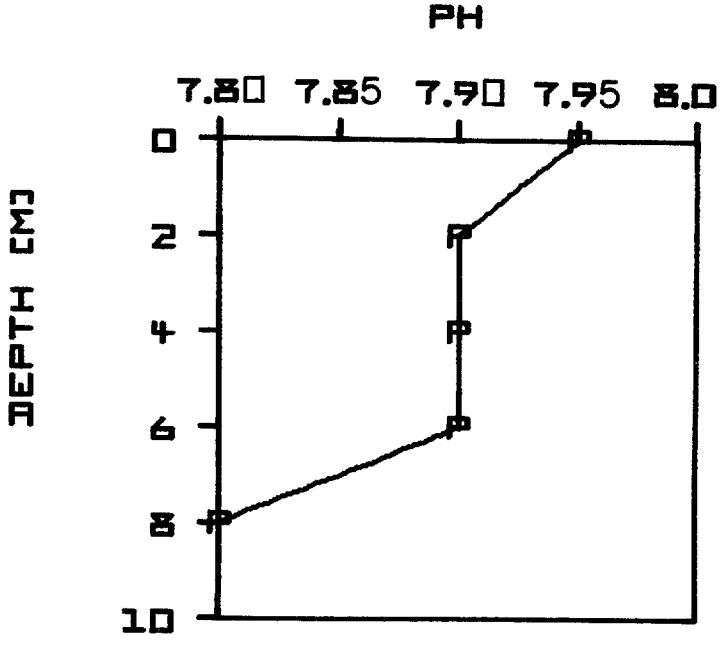
U. B. SURVEY

SAMPLE NUMBER 73
STATION NUMBER 11A
DATE 10/24/1974



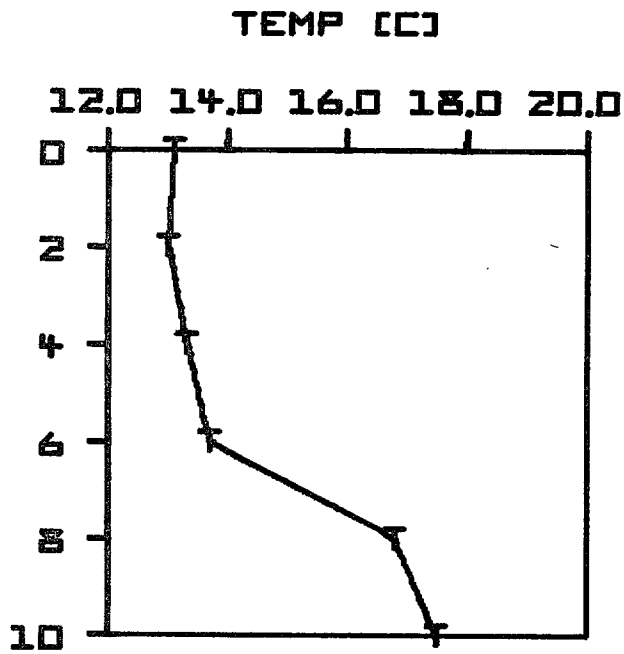


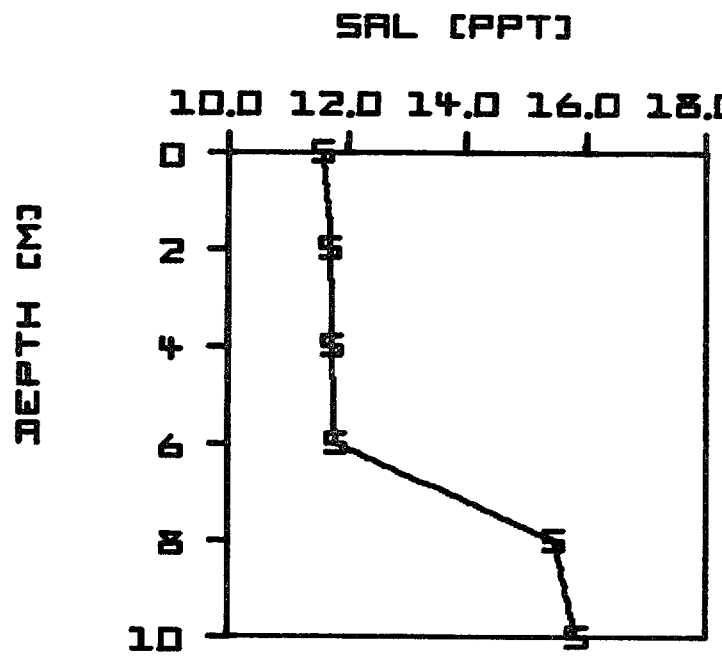


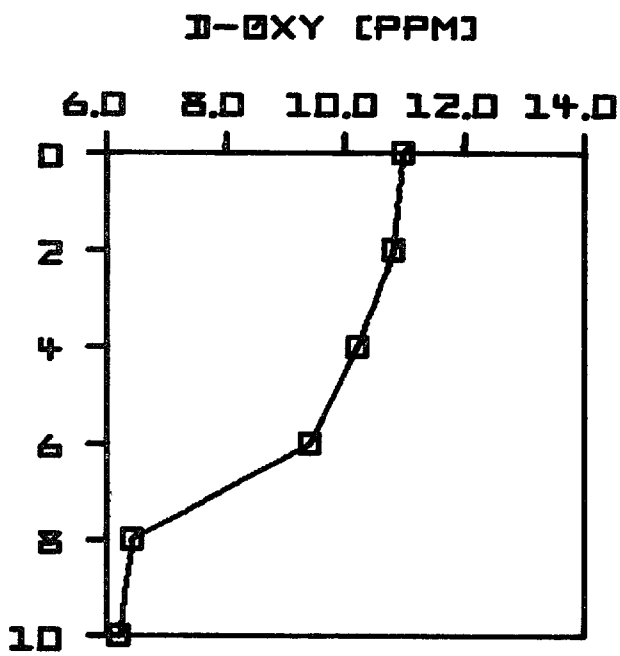


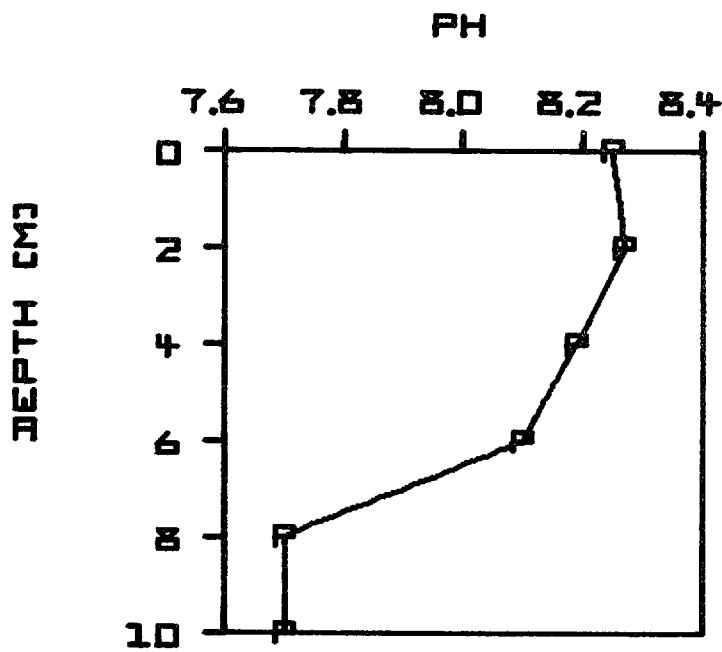
U. B. SURVEY

SAMPLE NUMBER 75
STATION NUMBER 108
DATE 10/24/1974



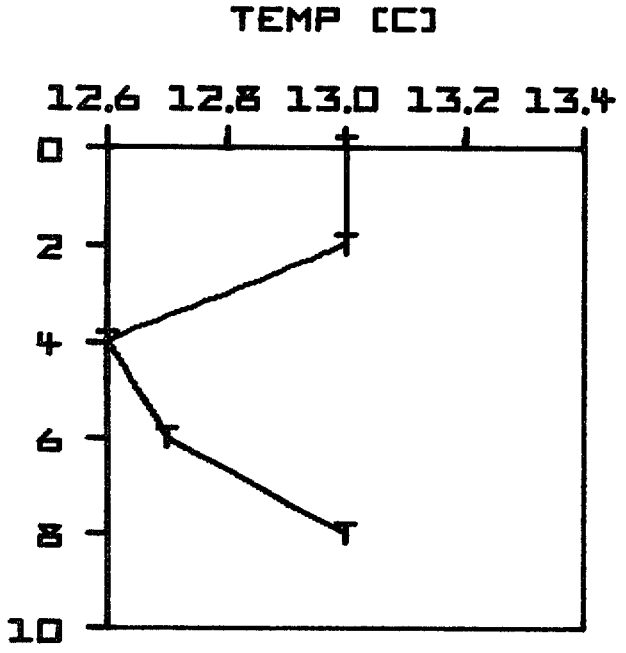


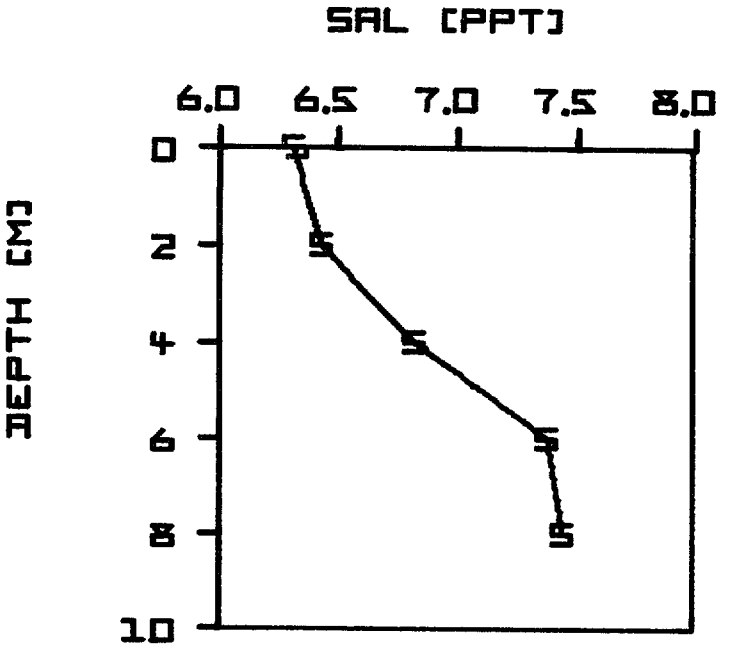


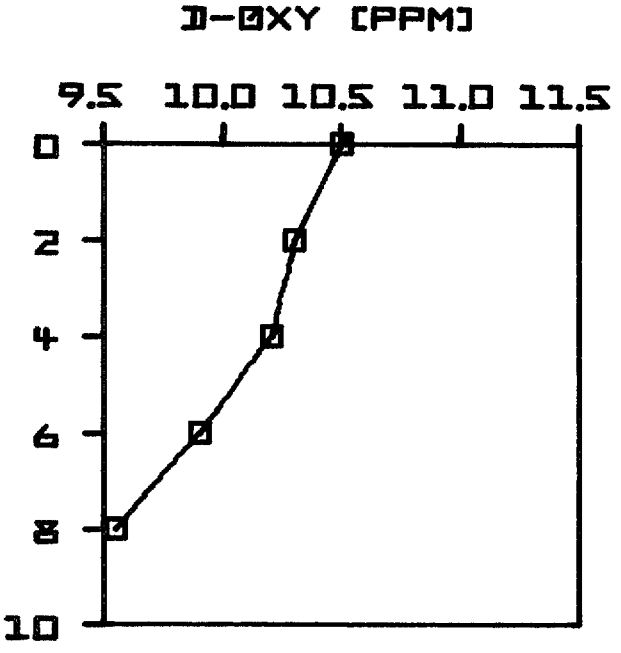


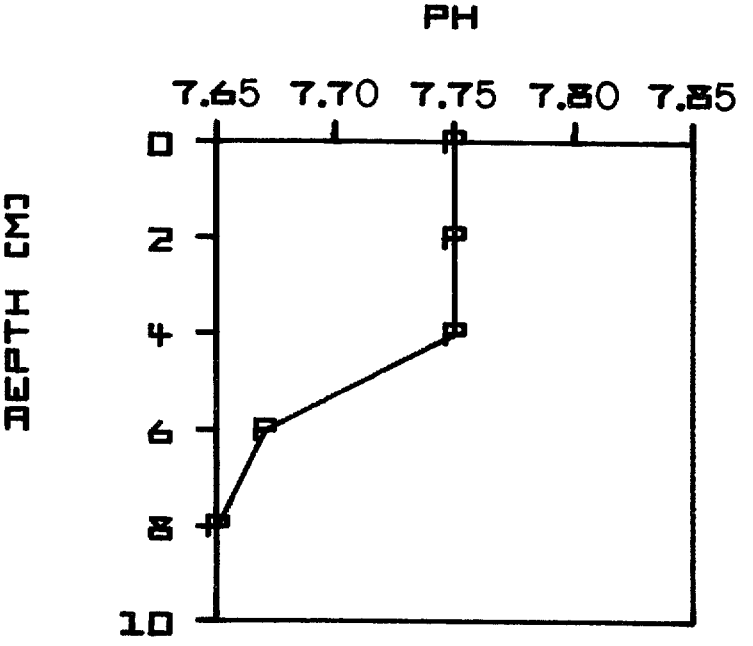
U. B. SURVEY

SAMPLE NUMBER 78
STATION NUMBER 5A
DATE 10/24/1974



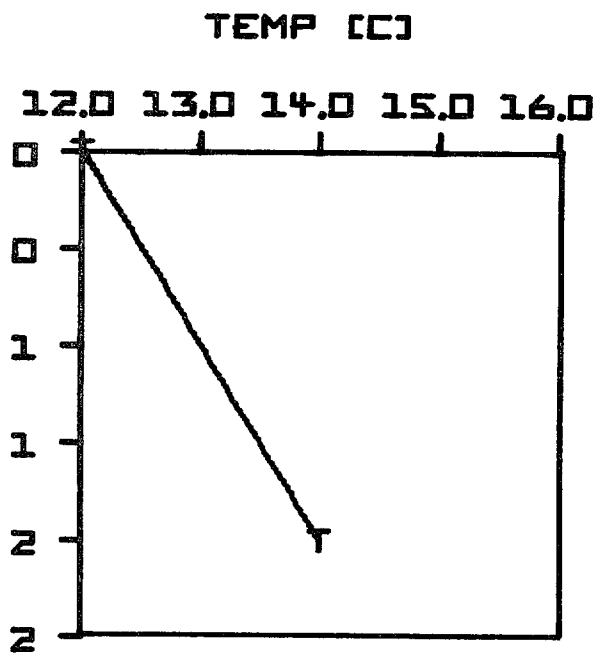


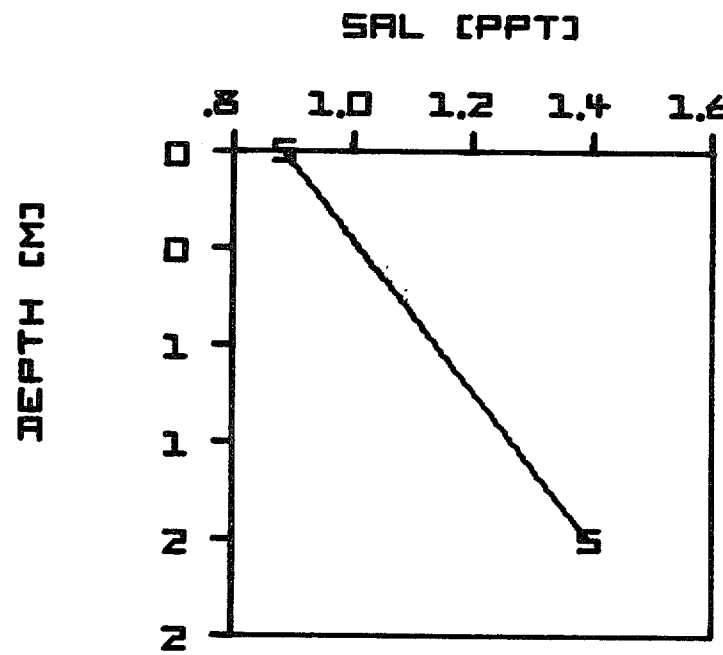


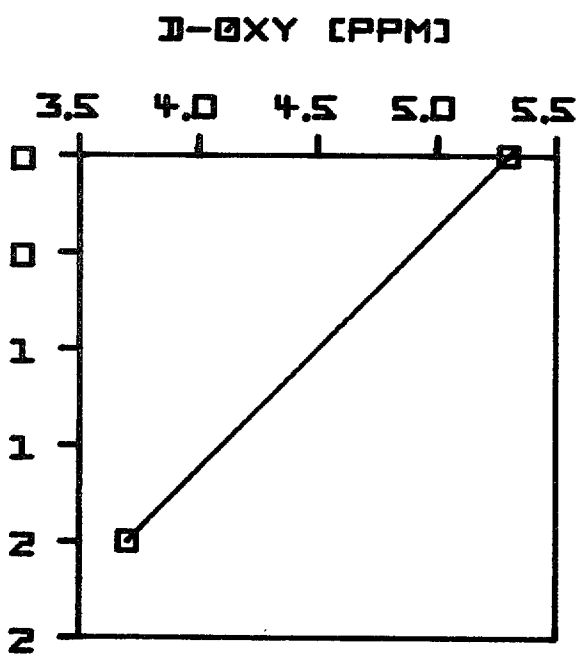


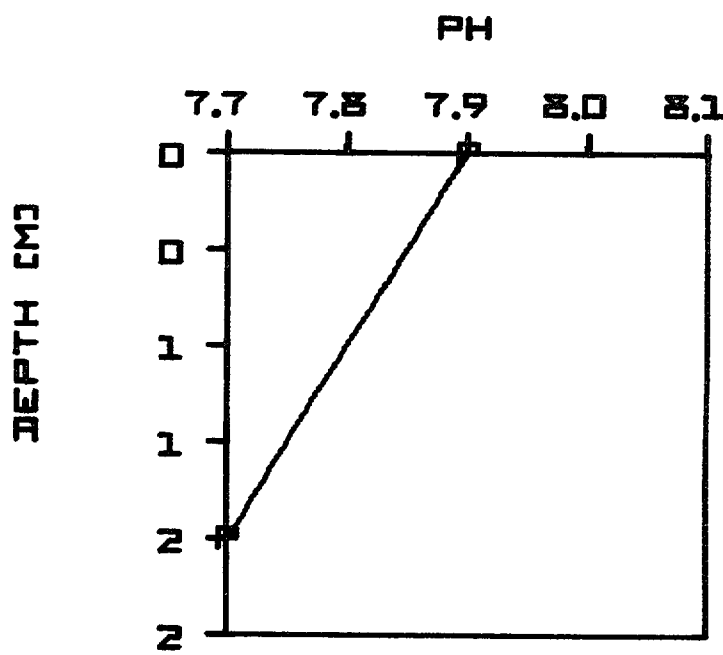
U. B. SURVEY

SAMPLE NUMBER 80
STATION NUMBER 01
DATE 11/25/1974



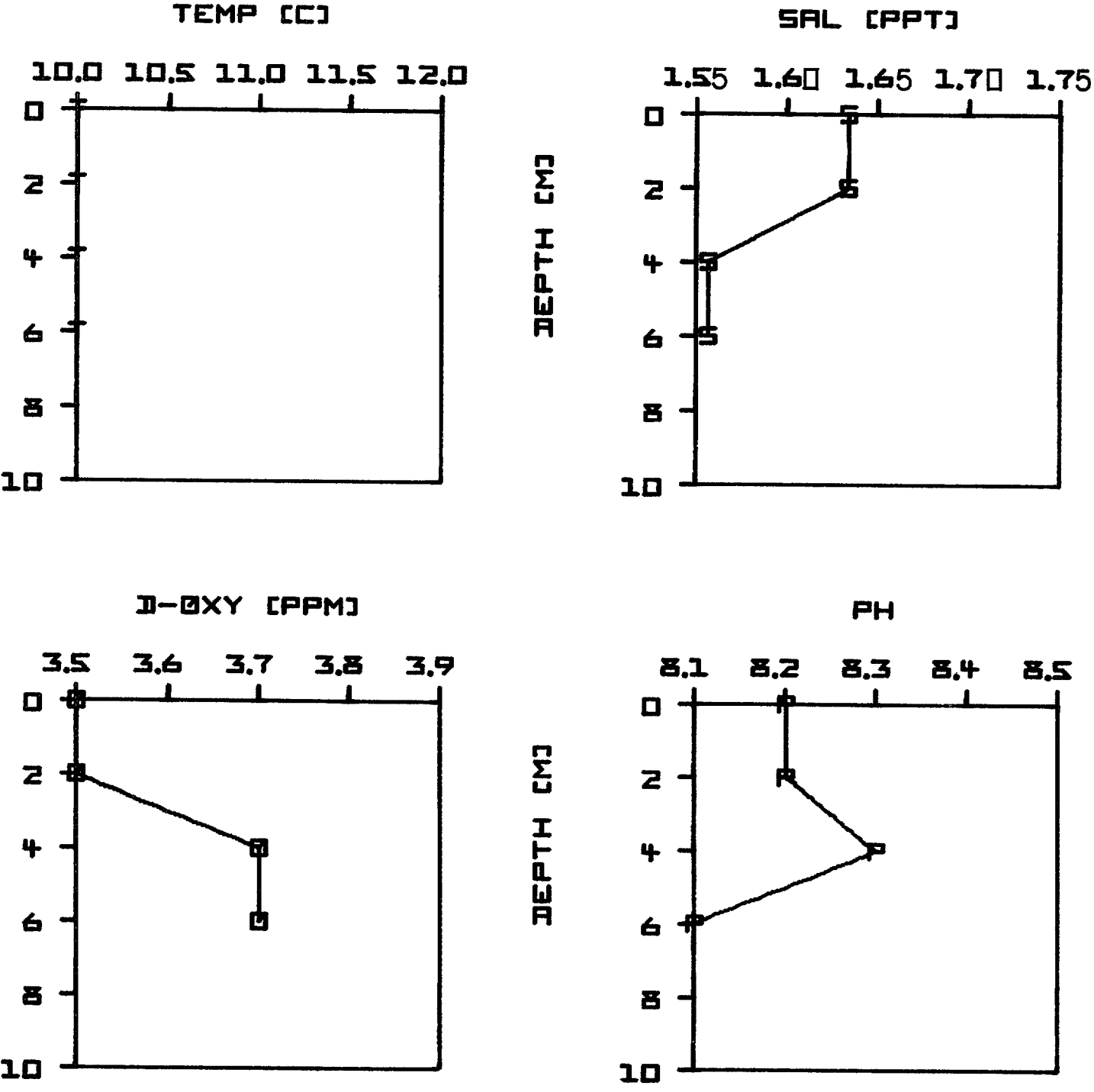






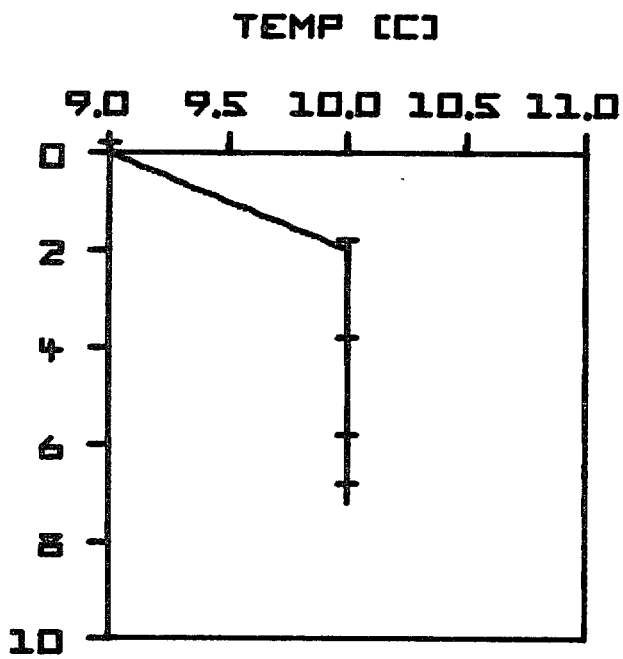
U. B. SURVEY

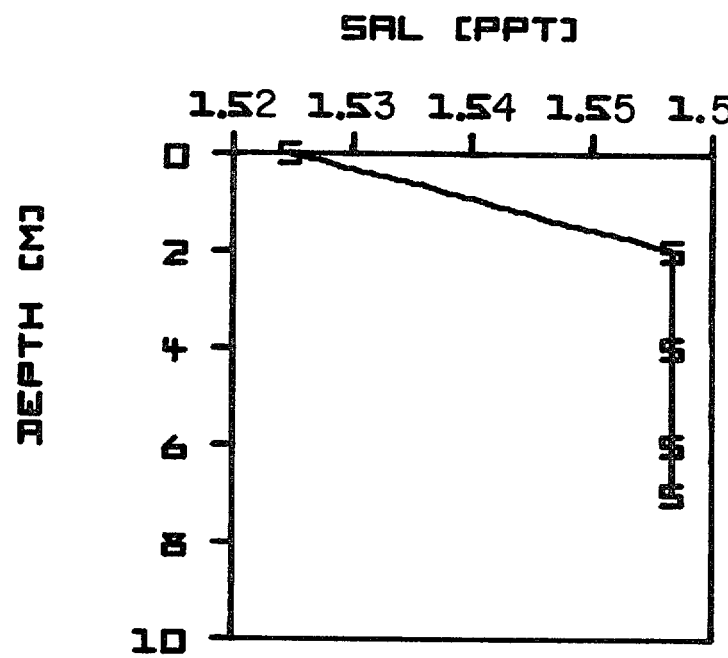
SAMPLE NUMBER 81
STATION NUMBER 02
DATE 11/25/1974

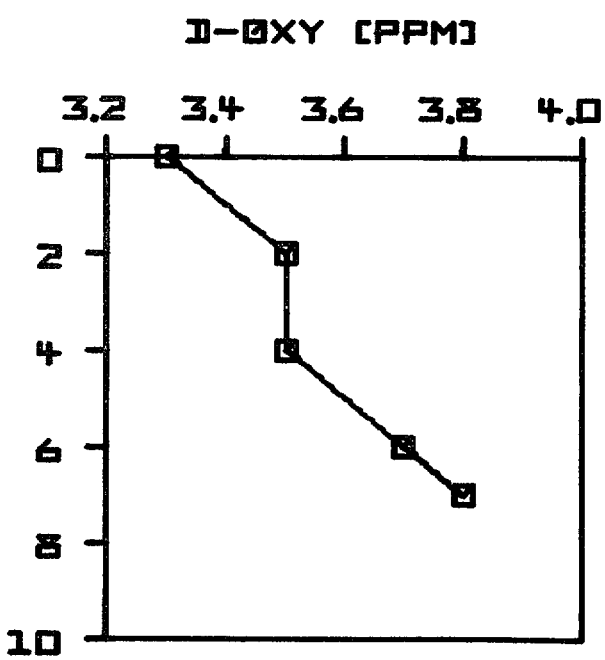


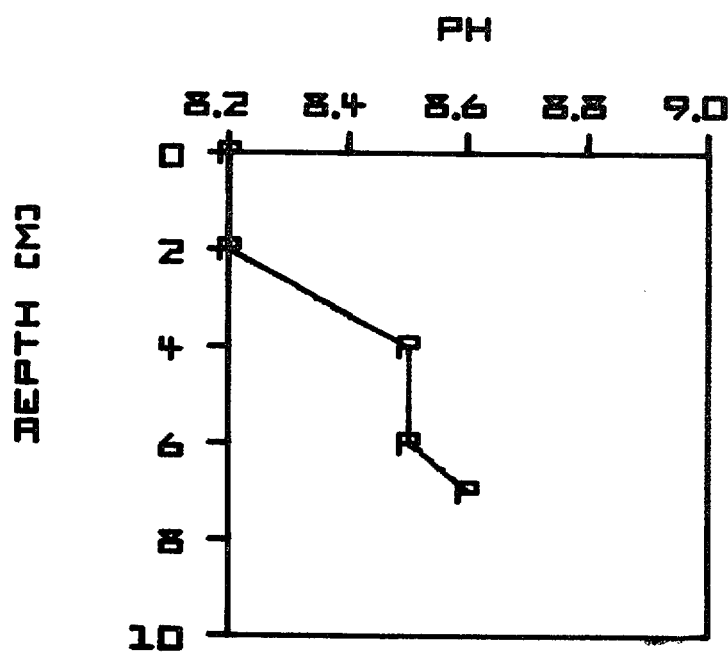
U. B. SURVEY

SAMPLE NUMBER 82
STATION NUMBER 03
DATE 11/25/1974



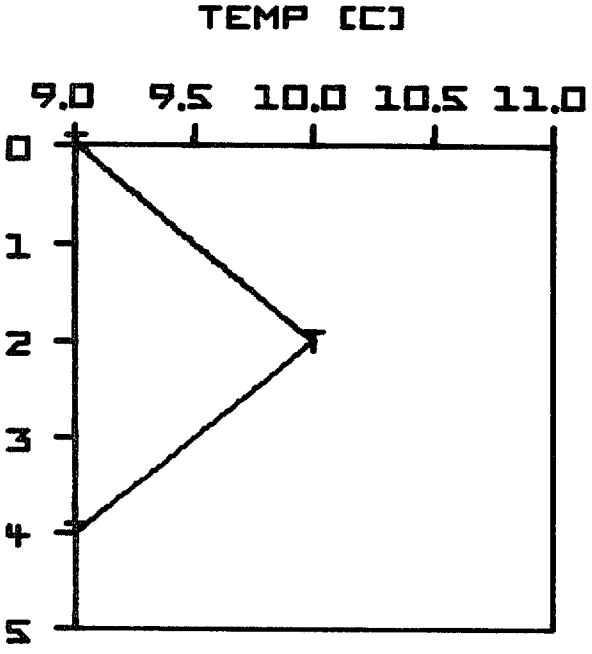


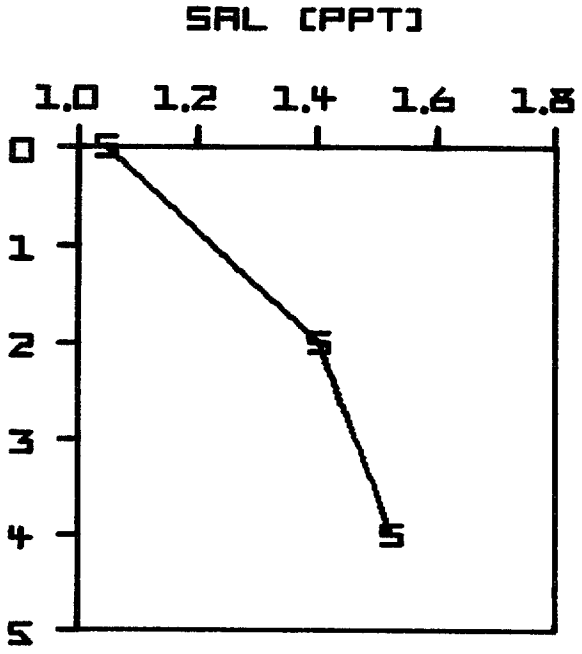


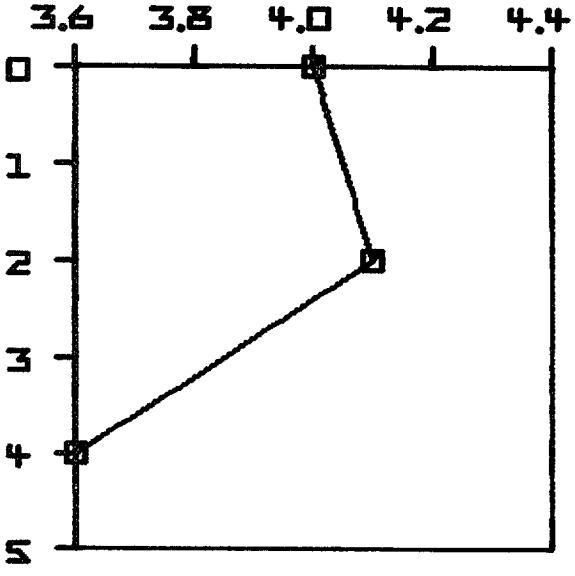


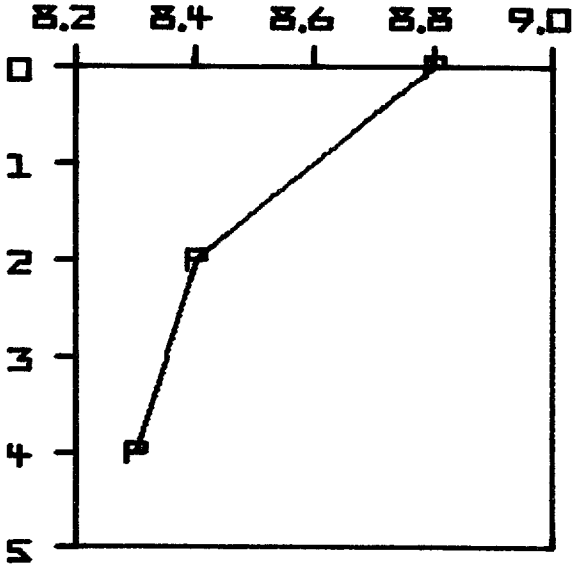
U. B. SURVEY

SAMPLE NUMBER 83
STATION NUMBER 05
DATE 11/25/1974



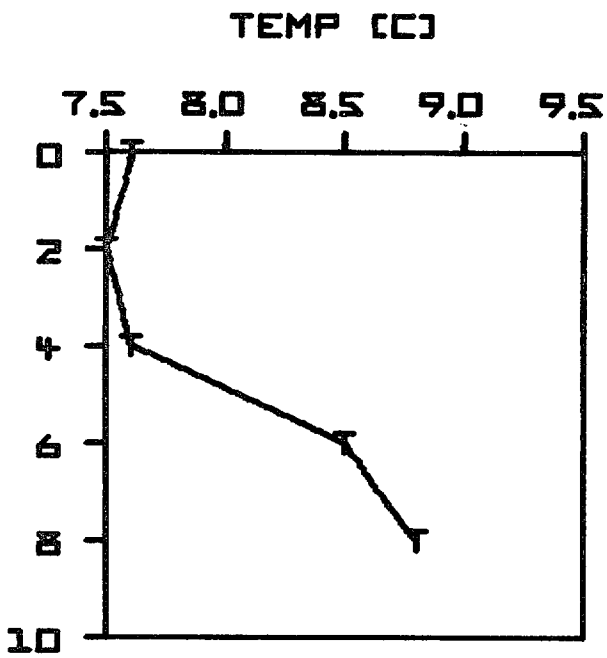


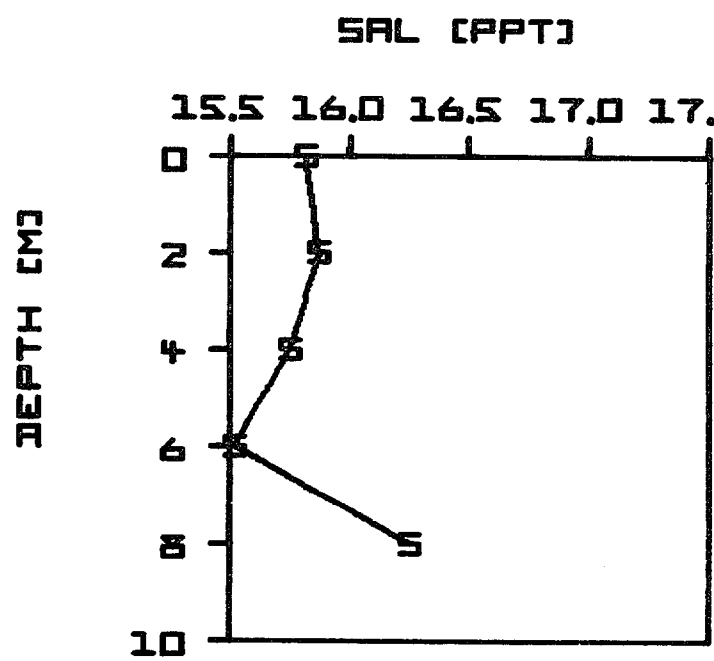




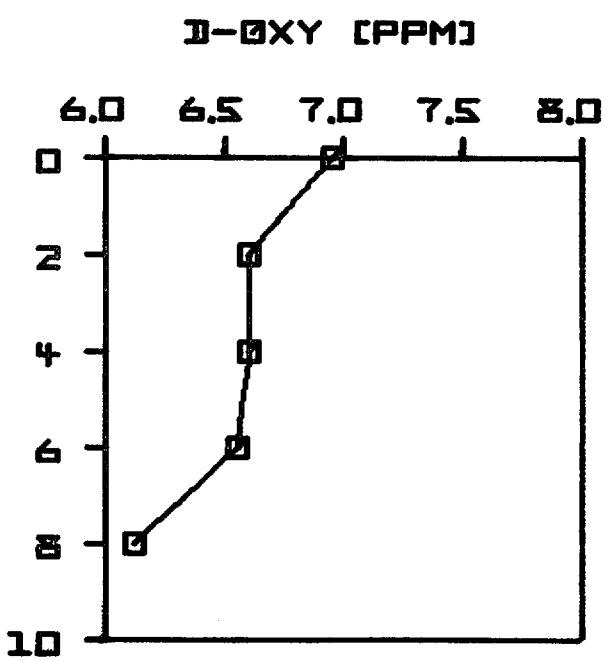
U. B. SURVEY

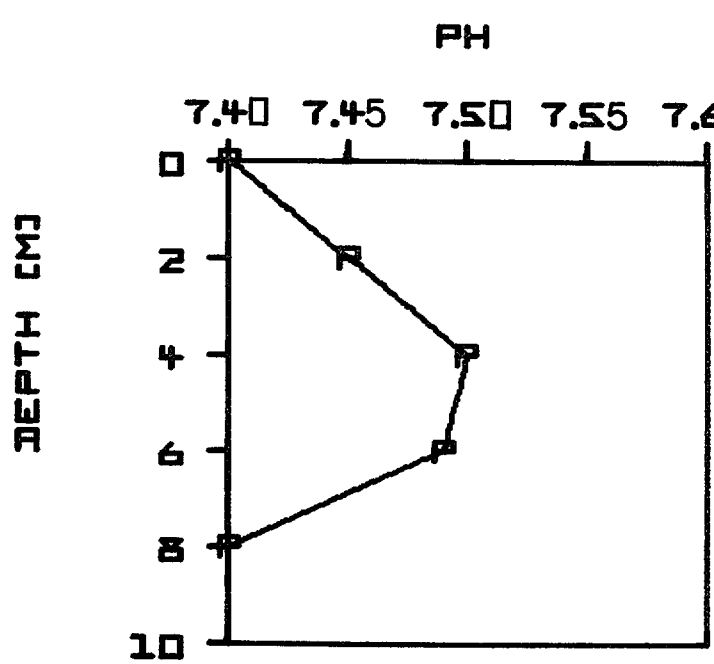
SAMPLE NUMBER 84
STATION NUMBER 11A
DATE 11/27/1974





DEPTH [M]

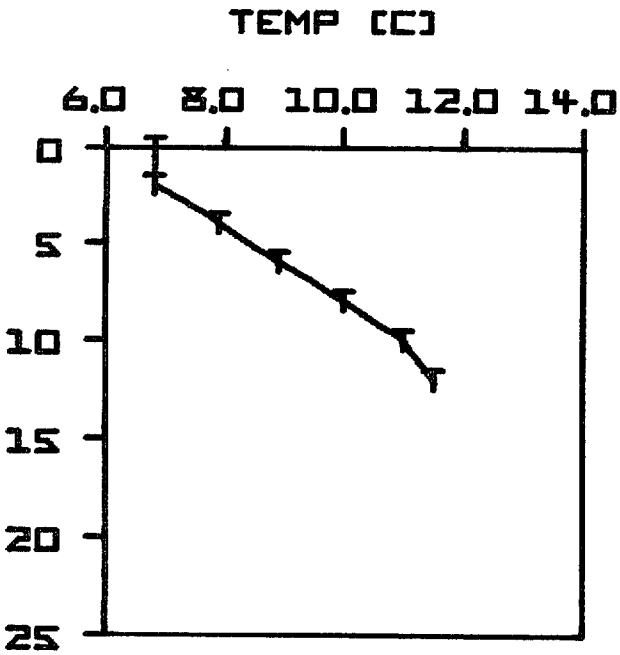


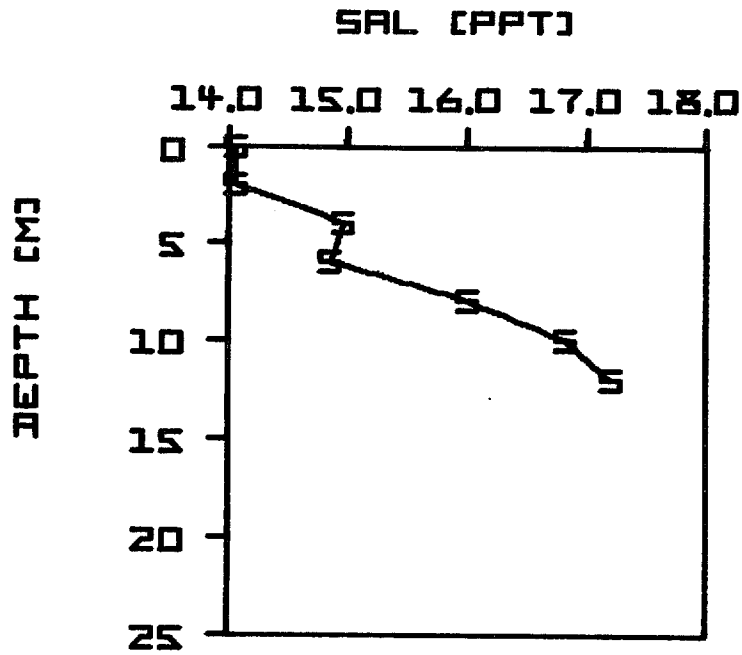


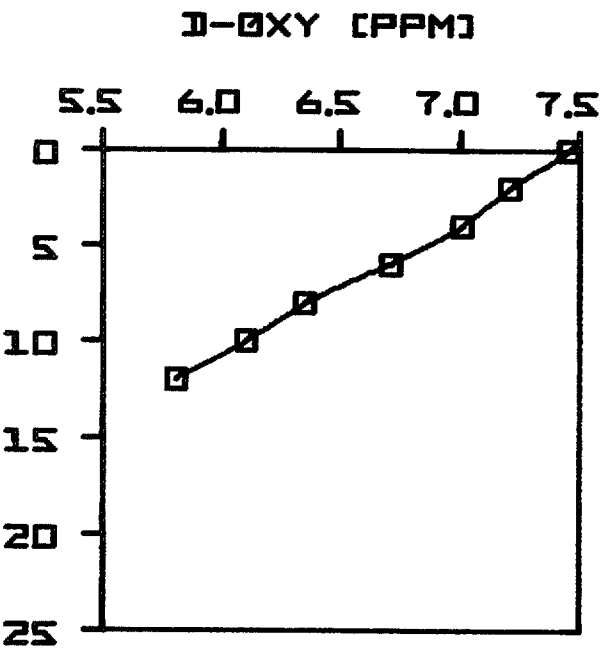
DEPTH [M]

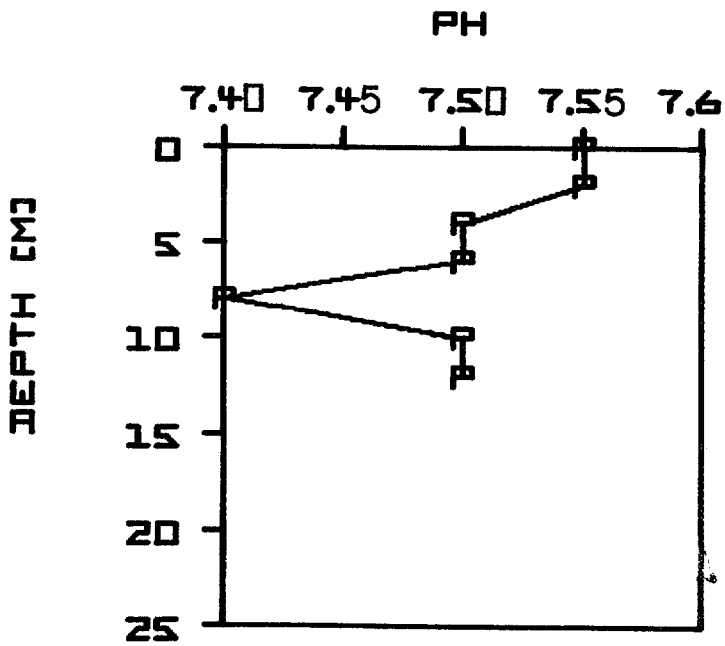
U. B. SURVEY

SAMPLE NUMBER 85
STATION NUMBER 11C
DATE 11/27/1974



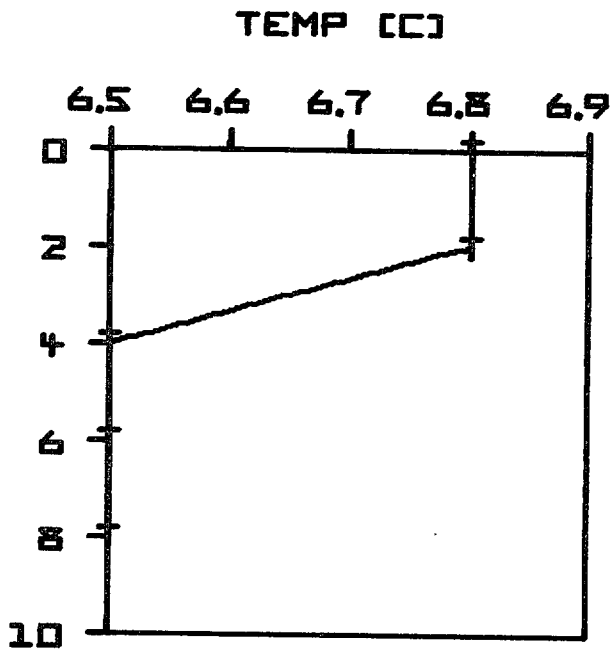


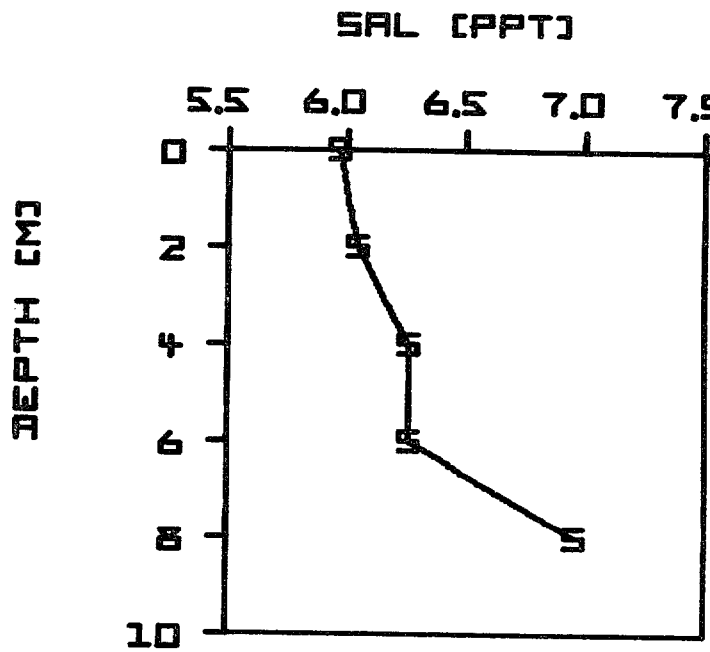


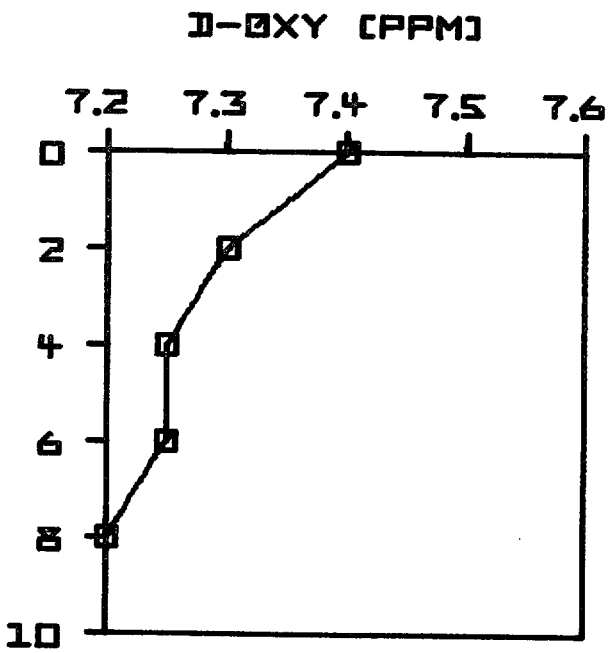


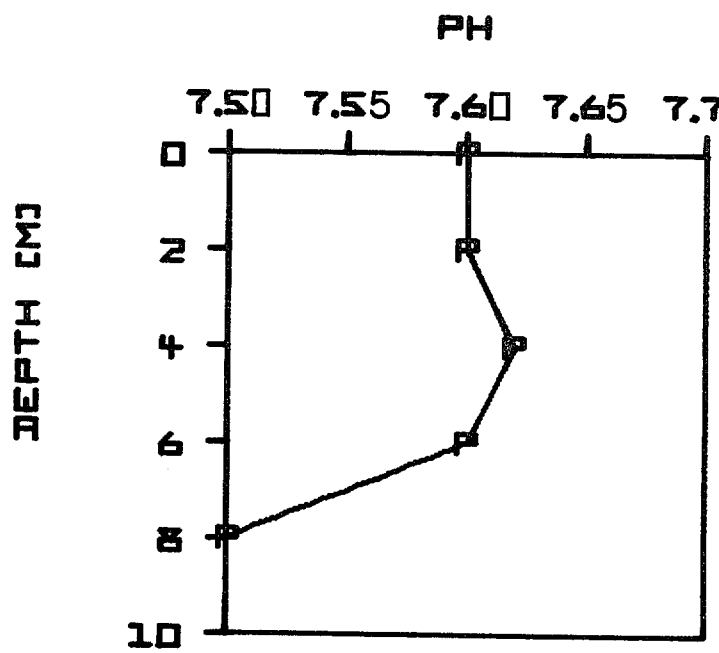
U. B. SURVEY

SAMPLE NUMBER 87
STATION NUMBER 5A
DATE 11/27/1974



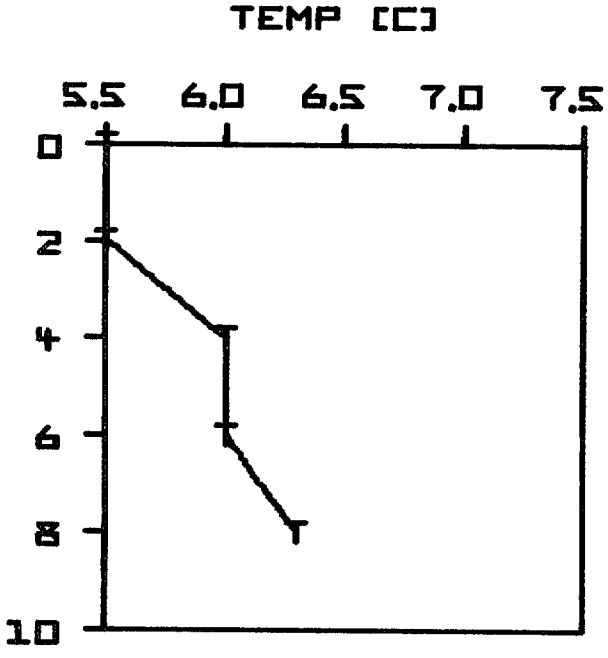


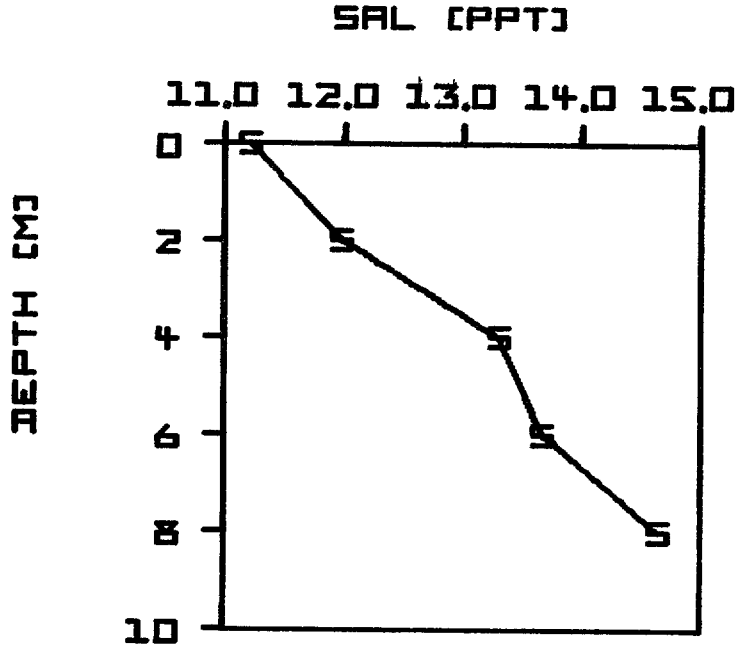


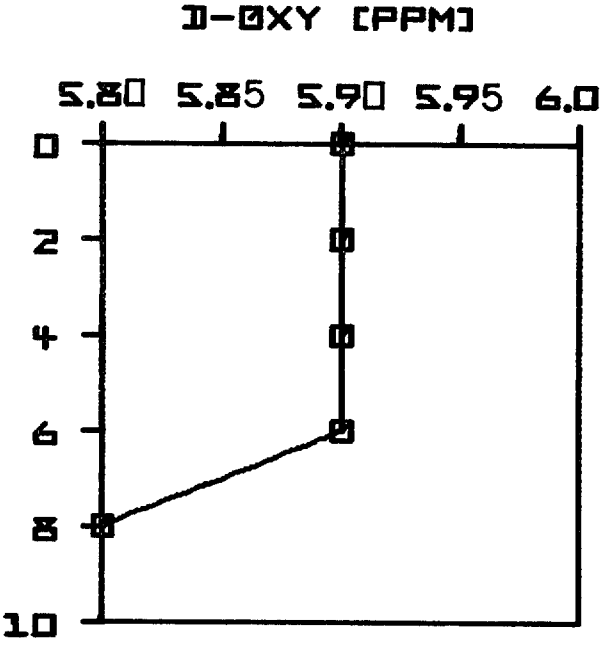


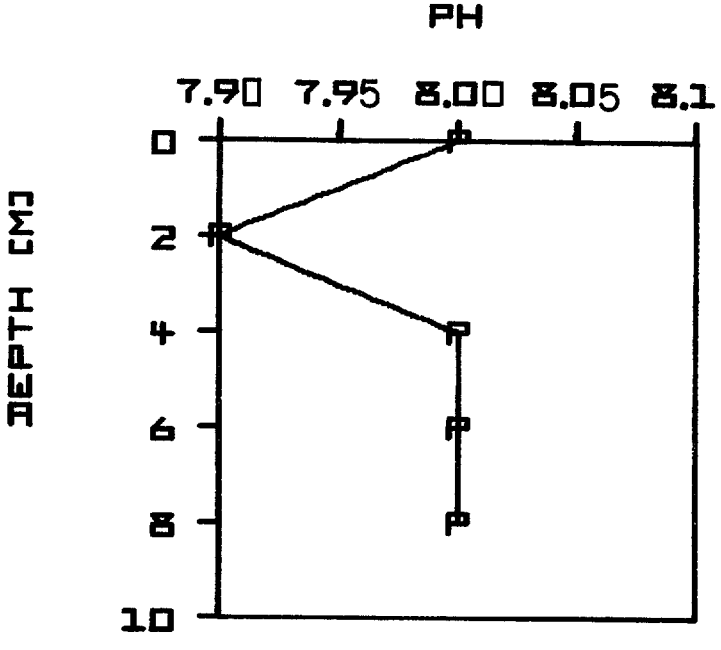
U. B. SURVEY

SAMPLE NUMBER 89
STATION NUMBER 11A
DATE 12/17/1974



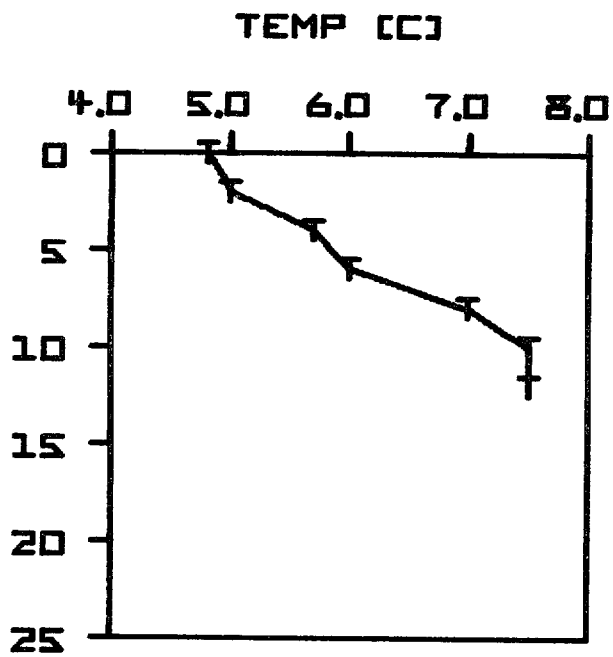


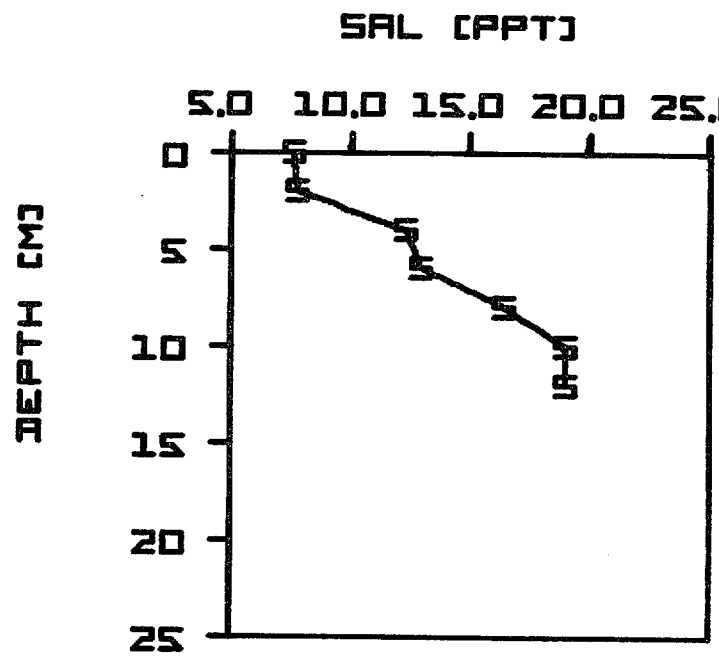


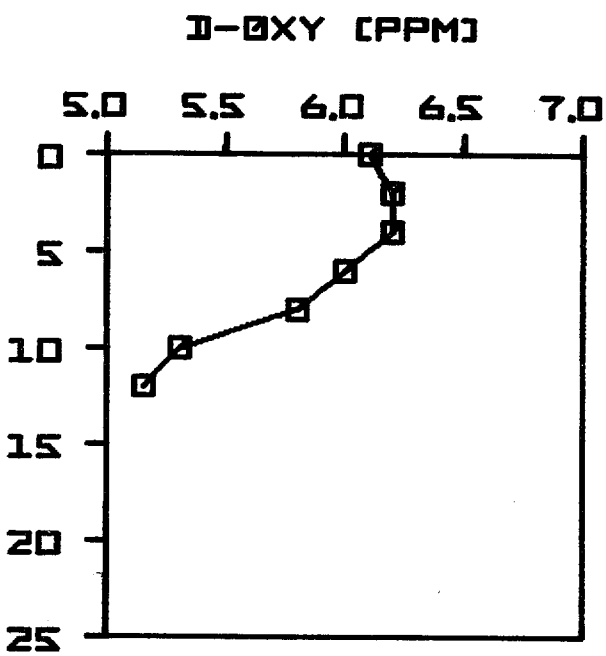


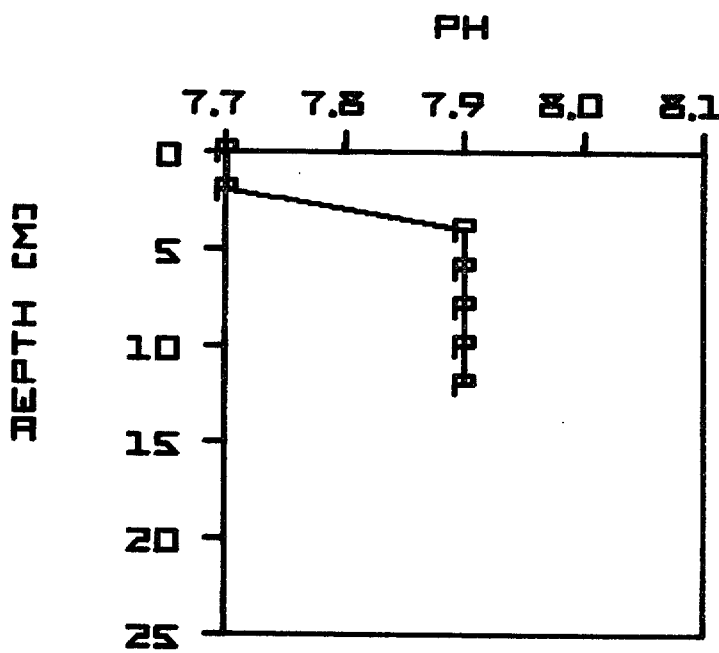
U. B. SURVEY

SAMPLE NUMBER 91
STATION NUMBER 108
DATE 12/17/1974



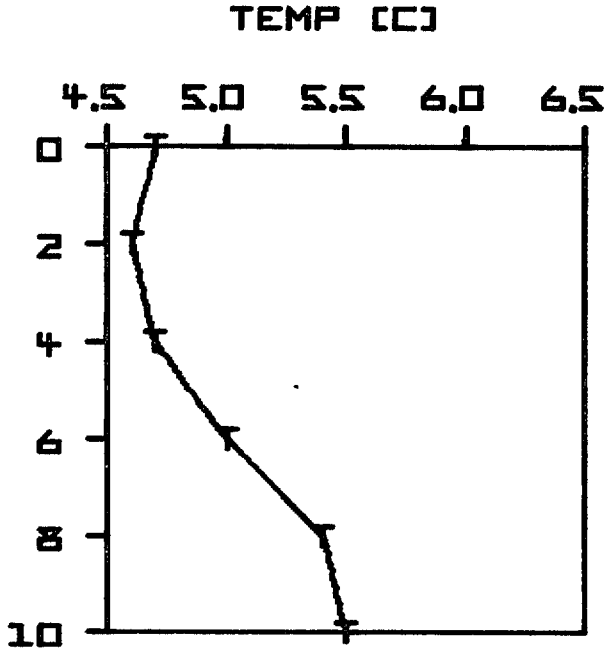


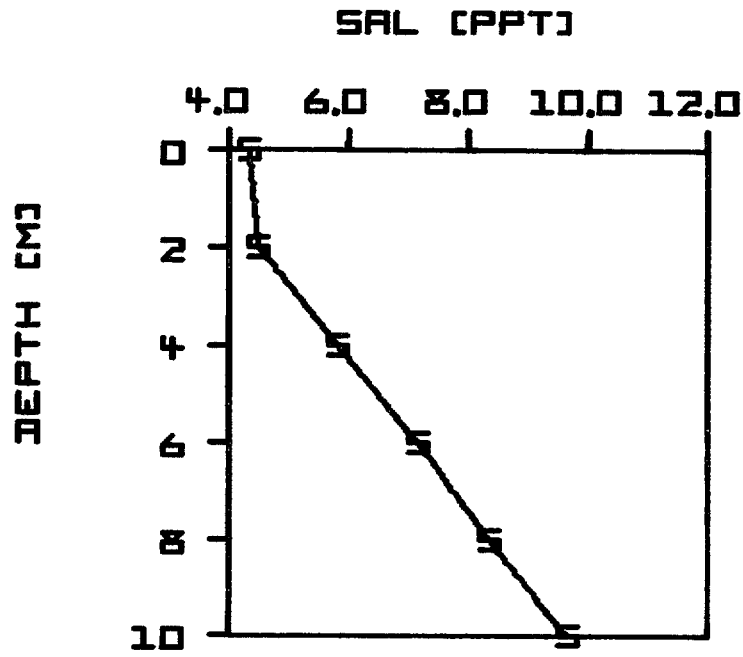


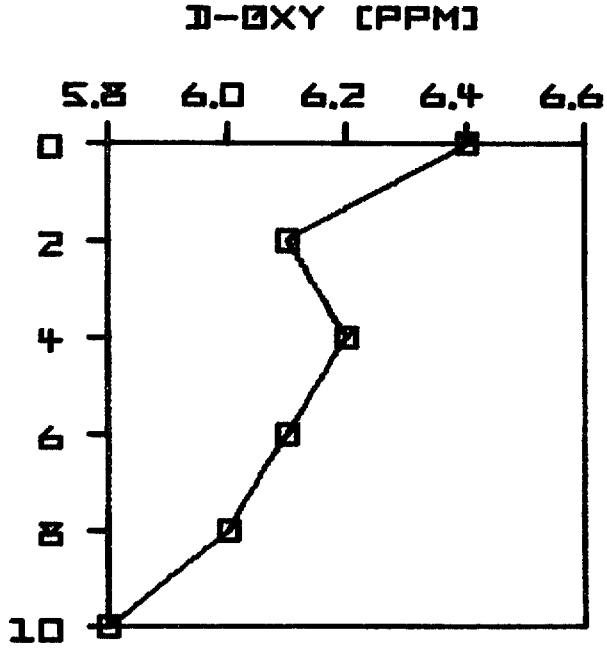


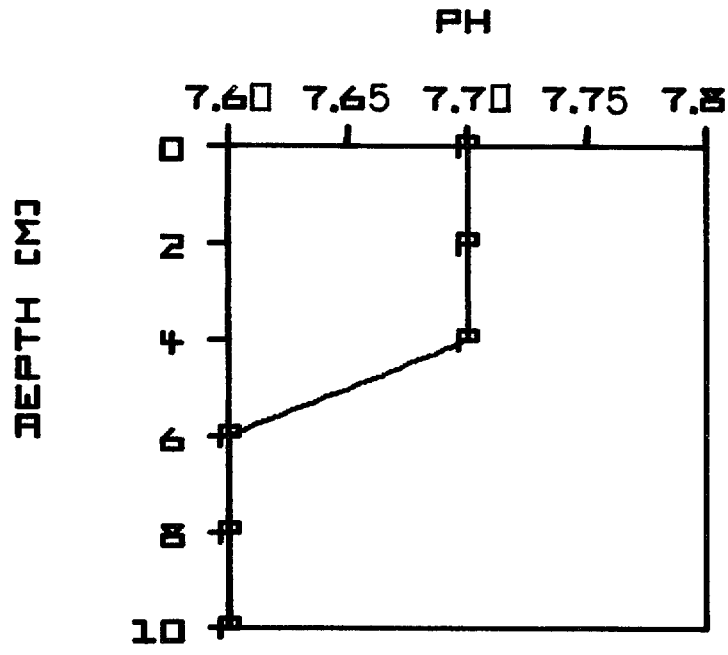
U. B. SURVEY

SAMPLE NUMBER 93
STATION NUMBER 5A
DATE 12/17/1974



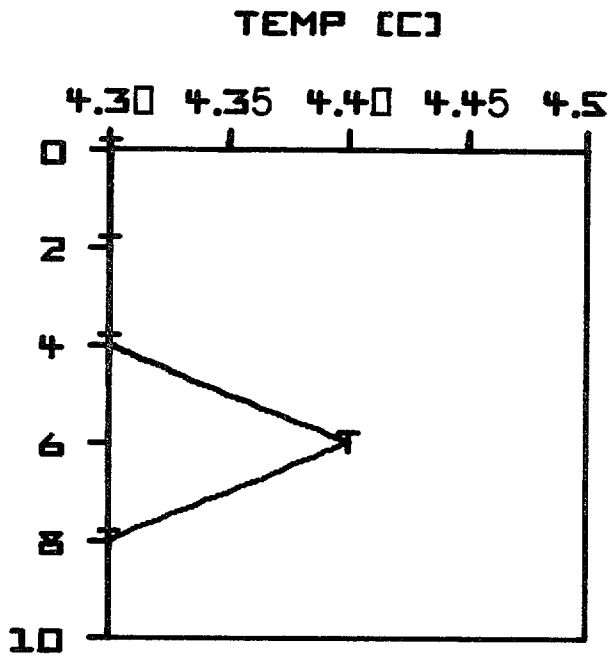


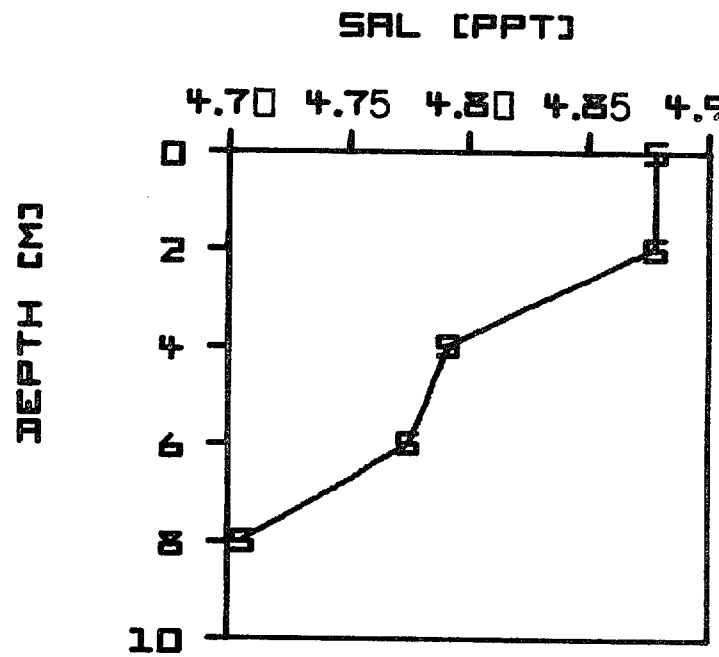


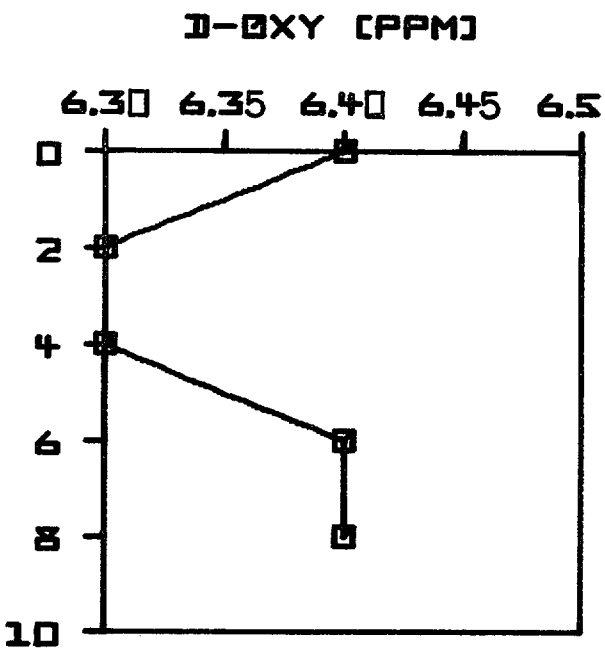


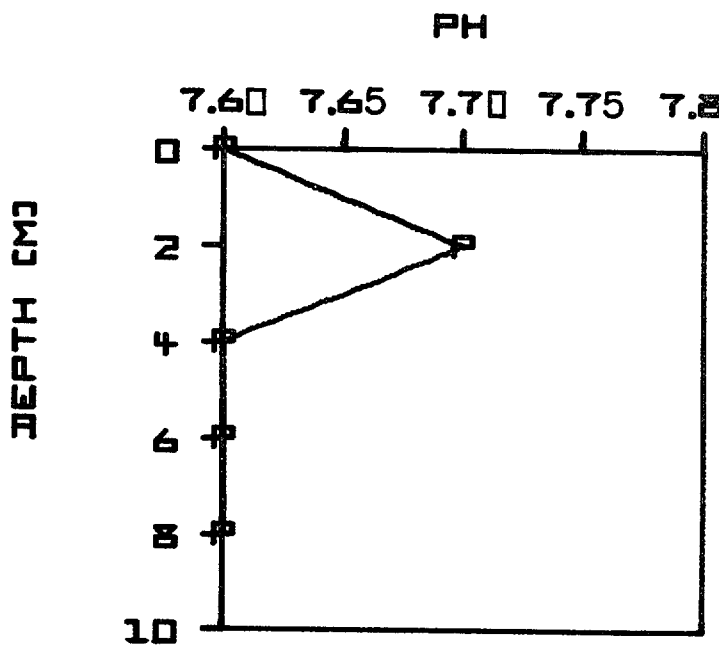
U. B. SURVEY

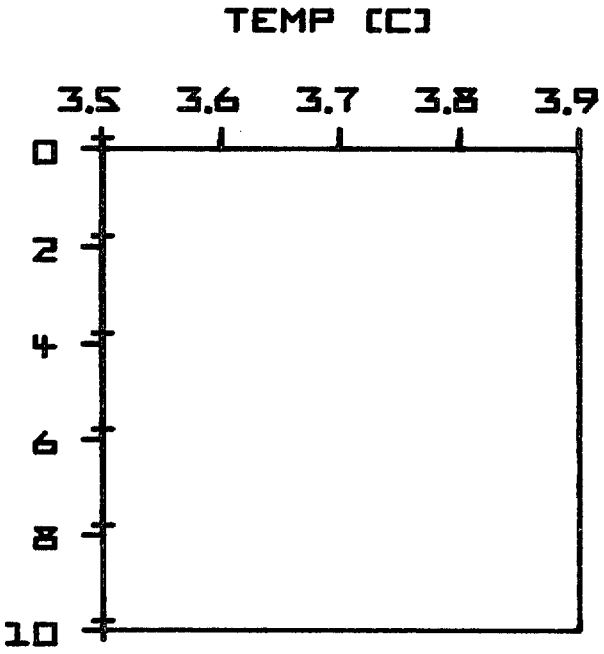
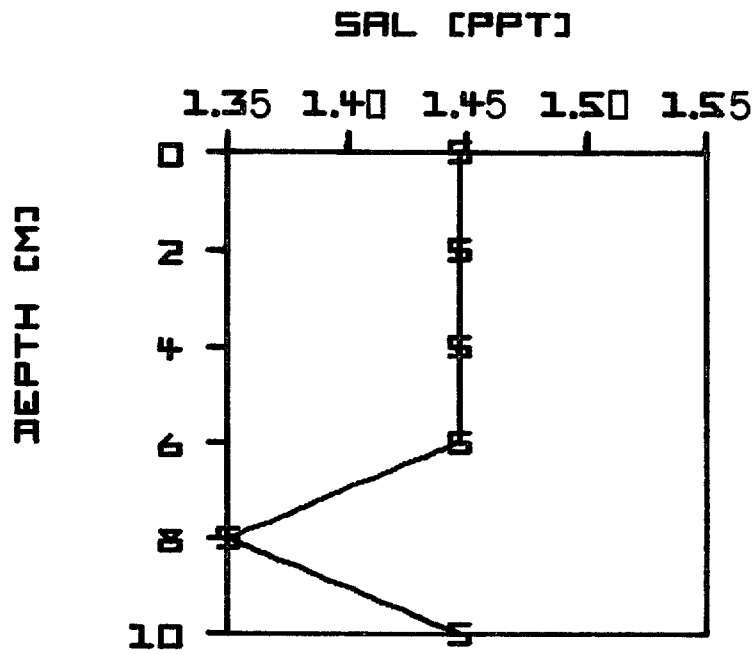
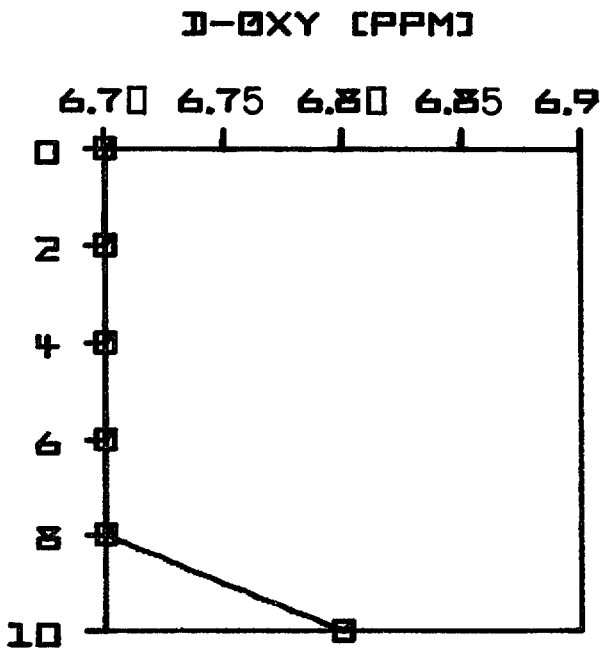
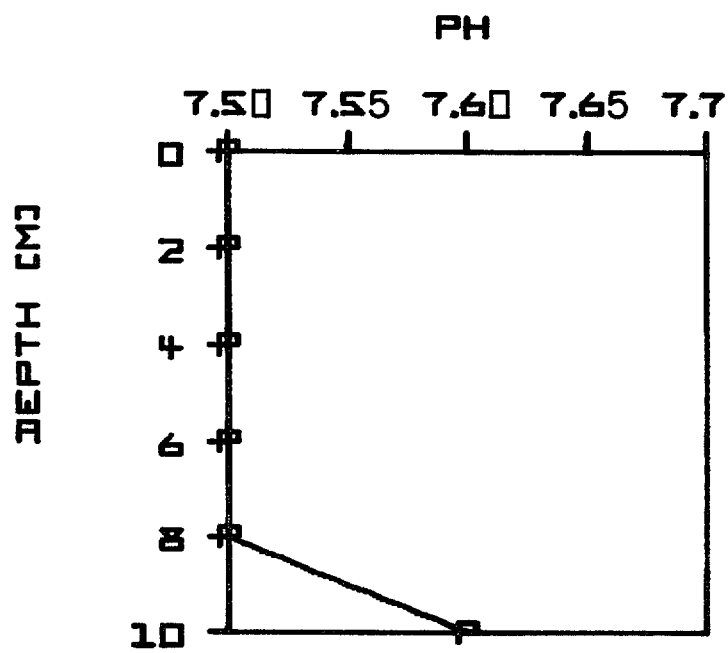
SAMPLE NUMBER 94
STATION NUMBER 36
DATE 12/18/1974









U. B. SURVEY

SAMPLE NUMBER 95
STATION NUMBER 1A
DATE 12/18/1974