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THE COASTAL ENVIRONMENTAL REFERENCE SERVICE, RETRIEVAL PROGRAM --ETC(U)
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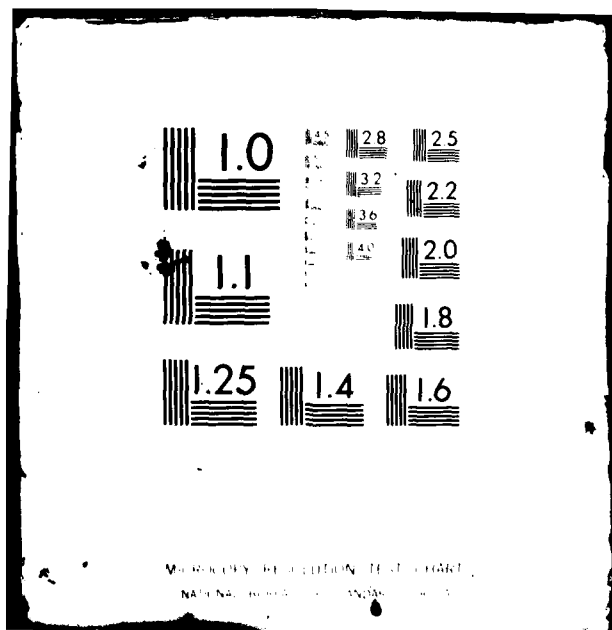
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LEVEL II

RP-35

THE COASTAL ENVIRONMENTAL REFERENCE SERVICE

RETRIEVAL PROGRAM USERS GUIDE

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AD A110158



RICHARD B. BLUMENTHAL
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JAN 27 1982

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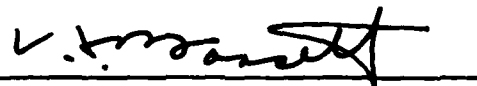
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FOREWORD

The Coastal Environmental Reference Service (CERS) is the subset of the Oceanographic Management Information System (OMIS) which identifies environmental studies and data collection efforts in coastal areas. Information on environmental data and studies for coastal regions throughout much of the world can be conveniently extracted from the CERS data base.

A handwritten signature in dark ink, appearing to read 'C. H. Bassett', is written over a horizontal line.

C. H. Bassett
Captain, USN
Commanding Officer

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Detailed instructions are presented for the retrieval of information from the Coastal Environmental Reference Service Data Base via the use of an interactive retrieval program. The data base contains information on coastal studies, data collection sites and the types of data collected, and geophysical models on coastal processes. Information obtainable includes location, dates, parameters taken, methods of collection, points of contact for data retrieval, published articles, and brief explanatory remarks. There		

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is also an analog feature which permits retrieval of data source records for areas which are environmentally similar to a series of user provided parameter specifications.

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1. Introduction

The Coastal Environmental Reference Service (CERS) is the subset of the Oceanographic Management Information System (OMIS) concerned with environmental studies and data collection efforts in coastal areas. The CERS data base contains information on beach studies, environmental data collection efforts at specific sites, and information about computer models for nearshore topics. Included is information on the type of data, location, method of collection, and point of contact for data retrieval.

The CERS was designed and implemented by the Department of Environmental Sciences, University of Virginia, under ONR contract no. N00014-75-C-04080, R. Dolan and B. Hayden co-investigators. Implementation was done under the SHARP data base system at the Naval Ship Research and Development Center at Caderock, Maryland. The system was transferred to the Naval Oceanographic Office, NSTL Station, Bay St. Louis, Mississippi in late 1979, and was redesigned to operate within the UNIVAC 1100 Operating System environment. CERS was implemented as a subset of a composite Oceanographic Management Information System (OMIS).

The CERS is intended to serve as an information system on coastal studies and data collection sites, and as a source of contact points for data retrieval. An interactive retrieval program (CISRET) is provided to enable a wide spectrum of users to access the data base independently by providing answers to programmed prompts.

2. Data Description

2.1 Basic Data Types

Input to the CERS data base is derived from the following types of data sources:

1. Common data - information about coastal study data collection efforts.
2. Specific data - information about study or data collection sites.
3. Model data - information about geophysical models on coastal processes.

2.2 Scope of Information

Information obtainable about the data sources includes:

1. Name of the program, model, or site
2. Environmental parameters considered
3. Sponsoring organization
4. Point of contact
5. Publications about program, model or site data summaries
6. Remarks or input and output specifications for models

3. Interactive Retrieval Program

3.1 General Instructions

Appendices A and B should be read by persons unfamiliar with the use of demand terminals before proceeding farther. Appendix A explains the process of logging on the NAVOCEANO U-1108 "B" system computer. Appendix B provides guidance for interacting with the computer. After signing on the computer, the retrieval program is initiated by typing in:

```
@ADD,L CERS*KERS.RETRIEVE
```

This statement will assign all pertinent files and begin program execution.

3.2 Retrieval Query Modes

The three search modes for information retrieval from the CERS data base are the tutorial, advanced, and analog modes. The tutorial mode, which is primarily for novice users, provides textual instructions for responding to queries and tables of entries used in response to parameter, country, and ocean queries. An advanced mode allows direct response to queries without the receipt of textual instructions or questions. The analog mode will search for data source records for areas which are physically similar to environments described by user provided parameters.

3.2.1 Tutorial Mode Option

The retrieval program is initiated by typing in:

```
@ADD,L CERS*KERS.RETRIEVE
```

The following statements will be printed:

```
CERS INTERACTIVE RETRIEVAL ENTERED
```

```
PLEASE ENTER QUERY MODE OPTION
```

```
ENTER AD FOR ADVANCED, TU FOR TUTORIAL, AN FOR ANALOG
```

```
>TU
```

The entry of TU for the tutorial mode invokes the following response:

```
YOU HAVE SELECTED THE TUTORIAL QUERY MODE  
YOU MAY QUERY ON A SEARCH PARAMETER  
FROM A SPECIFIED LIST. IF AT ANY TIME YOU  
REQUIRE ASSISTANCE OR MORE EXPLANATION WHILE  
ENTERING YOUR QUERY, TYPE IN THE WORD HELP.  
IF YOU DISCOVER THAT ONE OF THE VALUES WHICH  
YOU TYPED IS INCORRECT, JUST CONTINUE YOUR  
QUERY. AFTER YOUR QUERY HAS BEEN ENTERED  
YOU WILL BE OFFERED AN OPPORTUNITY TO RETURN  
TO THE START AND CORRECT YOUR QUERY.
```

```
PARAMETER OF CONCERN OPTIONS (CHOOSE 1):
```

CODE	PARAMETER	CODE	PARAMETER	CODE	PARAMETER
01	WAVES	02	TIDES	03	CURRENTS
04	WIND	11	WATER TEMPERATURE	12	SALINITY
13	WATER DENSITY	20	STORMS	21	AIR TEMPERATURE
22	BAROMETRIC PRESSURE	23	PRECIPITATION	24	DEW POINT
25	VISIBILITY	26	SOLAR RADIATION	27	TEMP. OF SUBSTRATA
30	BATHYMETRY	31	SEDIMENTS	32	BEACH MORPHOLOGY
33	BEACH CHARACTERISTICS				

```
ENTER APPROPRIATE CODE.  
>01
```

Typing in 01 selects waves as the parameter.

COUNTRY OF INTEREST (CHOOSE 1):

CODE COUNTRY

AG ALGERIA
 AY ANTARCTICA
 BF BAHAMAS
 BE BELGIUM
 BR BRAZIL
 CA CANADA
 CJ CAYMAN ISLANDS
 KT CHRISTMAS ISLAND
 DA DENMARK
 FI FINLAND
 GB GABON
 GJ GRENADA
 GQ GUAM ISLAND
 IR IRAN
 JQ JOHNSTON ATOLL
 LY LYBIA
 MB MARTINIQUE
 MQ MIDWAY ISLAND
 NU NICARAGUA
 PK PAKISTAN
 PL POLAND
 SG SENEGAL
 UR SOVIET UNION
 ST ST. LUCIA
 NS SURINAM
 TH THAILAND
 TC UNITED ARAB EMIRATES
 IQ US MISC PACIFIC IS
 WQ WAKE ISLAND
 YO YUGOSLAVIA

CODE COUNTRY

AQ AMERICAN SAMOA
 AS AUSTRALIA
 BB BARBADOS
 BD BERMUDA
 VI BRITISH VIRGIN ISLANDS
 EQ CANTON ISLAND
 CH CHINA
 CU CUBA
 CC E. GERMANY
 FR FRANCE
 UK GREAT BRITAIN
 GP GUADELOUPE
 GY GUYANA
 JA JAPAN
 KU KUWAIT
 MY MALAYSIA
 MX MEXICO
 NL NETHERLANDS
 NO NORWAY
 PP PAPUA/NEW GUIANA
 RQ PUERTO RICO
 SF SOUTH AFRICA
 SP SPAIN
 VC ST. VINCENT
 TW TAIWAN
 TD TRINIDAD AND TOBAGO
 US UNITED STATES
 VQ VIRGIN ISLANDS (US)
 GE W. GERMANY

ENTER APPROPRIATE CODE.

>US

Entering US selects the United States as the country.

OCEAN OF INTEREST (CHOOSE 1):

CODE OCEAN

ARC ARCTIC OCEAN
 CBB CARIBBEAN SEA
 GMX GULF OF MEXICO
 NAT NORTH ATLANTIC
 NTH NORTH SEA

CODE OCEAN

BLT BALTIC SEA
 GCA GULF OF CALIFORNIA
 MED MEDITERRANEAN
 NPC NORTH PACIFIC
 PNG PERSIAN GULF

SAT SOUTH ATLANTIC
ARS ARABIAN SEA
SML STRAIT OF MALACCA
STW STRAIT OF TAIWAN

SPC SOUTH SPACIFIC
BBG BAY OF BENGAL
ADS ANDAMAN SEA

ENTER APPROPRIATE CODE.
>NAT

NAT indicates that the North Atlantic is the ocean selected.

THE SYSTEM WILL SEARCH FROM 1 TO 20 DEGREES
AROUND YOUR LOCATION OF CONCERN. PLEASE ENTER
NUMBER OF DEGREES (2 DIGITS).
>02

The system will search an area two degrees on all sides of the selected location.

ENTER LATITUDE TO THE NEAREST WHOLE DEGREE
(2 DIGITS AND HEMISPHERE EG, 30N).
>35N

ENTER LONGITUDE TO THE NEAREST WHOLE DEGREE
(3 DIGITS AND HEMISPHERE EG, 100W).
>077W

The selected location is 35N, 077W.

TIME FRAME OF CONCERN (CHOOSE 1):

CODE	TIME FRAME
1	DATA COLLECTION IN PROGRESS AT TIME OF RECORD INPUT.
2	INCLUDE ALL REORDS.

ENTER APPROPRIATE CODE.
>2

YOU MAY CHOOSE REPORT TP1
(GENERAL INFO ON DATA COLLECTION PROGRAMS)
OR TP2 (INFO ON DATA COLLECTION SITES).
ENTER TP1 OR TP2.
>TP1

YOU HAVE CHOSEN THE FOLLOWING CRITERIA:

PARAMETER	WAVES
TIME FRAME	ALL RECORDS
LOCATION	NORTH ATLANTIC
	UNITED STATES

37N/079W	37N/075W
X	X
	X
X	X
33N/079W	33N/075W
REPORT	TP1

WHAT WOULD YOU LIKE TO DO (CHOOSE 1)?

CODE	ACTION
1	RUN THE QUERY
2	QUIT
3	TRY AGAIN

ENTER APPROPRIATE CODE.
>1

WOULD YOU LIKE THE INFORMATION SECTION ON YOUR
CHOSEN PARAMETER? IT CONSISTS OF THREE
SECTIONS: METHODS REFERENCE, PERSONAL
REFERENCE, OTHER SOURCES TO CHECK.
ENTER YES OR NO.
>NO

YOUR QUERY HAS BEEN ACCEPTED.

The information section is available for only five parameters:
waves, tides, wind, bathymetry, and beach characteristics. It is
rather lengthy and if requested will be printed prior to the re-
sponse to the query. The first of the reports fulfilling the query
specifications follows:

GENERAL INFORMATION ON DATA COLLECTION PROGRAMS

REPORT TP1

AUG 19 1981

RCDID 0001
CERC WAVE GUAGE PROGRAM

STUDY-TYPE LONG-TIME SERIES DATA-TYPE REAL SITES 36
PARAMETERS WAVES
MEDIUMS MAGNETIC TAPE
STRIP CHARTS
DATA-AVAL COST OF RETRIEVAL/REPRODUCTION
SPONSOR CERC
PRIN-INVEST HARRIS, D.L., CERC, FORT BELVOIR, VA.

POC-NAME OCEANOGRAPHY BRANCH
POC-INST COASTAL ENGINEERING RESEARCH CENTER
POC-ADD KINGMAN BUILDING
POC-STATE FORT BELVOIR, VA. 22060, USA
POC-PHONE 202-325-7399

PUB-DATA DARLING, J.M. AND D.G. DUMM, 1967. THE WAVE RECORD PROGRAM
AT CERC. CERC MISC PAPER MP 1-67
THOMPSON E.F., 1974. RESULTS OF THE CERC WAVE MEASUREMENT
PROGRAM. PROCEEDINGS INTERNATIONAL SYMPOSIUM ON OCEAN
WAVE MEASUREMENT AND ANALYSIS, V. 1:836-855, ASCE
THOMPSON, E.F. 1977. WAVE CLIMATE AT SELECTED LOCATIONS
ALONG U.S. COASTS. CERC TR 77-1

REMARKS SIGNIFICANT WAVE HEIGHT AND PERIOD AND SPECTRUM ANALYSIS
OF THE DATA ARE DONE ROUTINELY. MANY OTHER PROGRAMS ARE
AVAILABLE AT CERC FOR SPECIAL ANALYSES. THE DATA ARE
SUMMARIZED MONTHLY. THE QUALITY OF INCOMING DATA IS RATED
BY PROGRAMS WHICH CHECK FOR ERRORS CAUSED BY GUAGE AND
TRANSMISSION EQUIPMENT MALFUNCTIONS.

After all of the reports have been printed, the system will respond
with:

WOULD YOU LIKE TO SUBMIT ANOTHER QUERY (Y OR N)?
>N
RETRIEVAL TERMINATED

Had you replied with Y, the query process would have restarted with
the selection of the mode option. You may now sign off the computer
by typing: @FIN

3.2.2 Advanced mode option

The entry of AD for the advanced mode invokes the following response:

PLEASE INPUT QUERY COMMANDS

The query commands consist of a series of statements starting with IF followed by specification selections. These statements select items such as parameters, country, ocean, latitude and longitude range, and collection status. Appendix C contains the complete list of acronyms which can be used for advanced mode query commands. The code values for these items are contained in Appendix D, CERS Tables. A maximum of ten 'IF' statements may be used in the query. The last 'IF' statement is followed by a report type statement and the line of coding, \$END. The commands for a report type TP2 query with the same parameter values selected for the report type TP1 query presented in Section 3.2.1 are:

```
IF PARAMETERS = 01
IF COUNTRY = US
IF OCEAN = NAT
IF LATITUDE < 37N AND > 33N
IF LONGITUDE < 079W AND > 075W
IF STATUS EQ 2
REPORT TP2
$END
```

This query will return TP2 (information on data collection sites) reports for the same location and parameters requested for the TP1 report of Section 3.3. The query is initiated by typing \$END on the line following REPORT TP2. The system will respond with YOUR QUERY HAS BEEN ACCEPTED and commence output of the report information. The text for one of the reports provided in response to the query is:

INFORMATION ON DATA COLLECTION SITES

REPORT TP2

AUG 19 1981

RCDDID	0043-069		
COUNTRY	UNITED STATES	OCEAN	NORTH ATLANTIC
LATITUDE	341200N		
LONGITUDE	0774800W		

WRIGHTSVILLE BEACH, N.C.

CRYSTAL PIER

POC-NAME ANDRE SZUWALSKI
POC-INST COASTAL INFORMATION ANALYSIS CENTER, CERC
POC-ADD KINGMAN BUILDING
POC-STATE FORT BELVOIR, VA.
POC-PHONE 202-325-7386

AXSHORE	NEARSHORE	STATUS	TEMPORARILY INACTIVE
PERIOD-NUM	01		
START-DATE	OCT 70		
STOP-DATE	OCT 72		
LENGTH-YR	2.0		
DATA-GAPS	0-10 PCT		
PERIODS	1		
DATA-FREQ			
RCD-LENGTH			
RCD-FREQ	DAILY		
VARIABLE	WAVE HEIGHT	WAVE PERIOD	WAVE DIRECTION
	BREAKER TYPE		
METHOD	VISUAL ESTIMATES	TIMES NO OF CRESTS	PROTRACTOR
	VISUAL ESTIMATES		
REMARKS	CERC STATION NO. 1525. DATA STORED ON MAGNETIC TAPE. OUTPUT AVAILABLE AS LISTS OR TABLE THROUGH CERC PROGRAM VIS1.		

The advanced mode is also used to obtain reports on geophysical models, Report type MOD. The coding for models on bathymetry, parameter 30, is:

```
IF RCDID < 9999 AND > 9949
IF PARAMETERS = 30
REPORT MOD
$END
```

This query selects all type MOD records on bathymetry between records 9949 AND 9999. All of the type MOD records currently in the CERS data base will have ID numbers between 9949 and 9999. The only option is parameters. Typing \$END on the line following REPORT MOD will initiate the following text.

INFORMATION ON COASTAL AND SHELF MODELS

REPORT MOD

AUG 19 1981

9950-001

MODEL BAR SIMULATION MODEL

COMPUTER CONTROL DATA CORP. CYBER 172

MODEL-TYPE SIMULATION HRDWR-TYPE DIGITAL

SOURCE-LANG FORTRAN OUT-MODE LINE PRINTER

USABILITY UNDOCUMENTED

DATA-AVAL COST OF RETRIEVAL/REPRODUCTION

PARAMETERS PARA 28 NOT VALID

VARIABLE BATHYMETRY

POC-NAME WILSON N. FELDER

POC-INST DEPT. OF ENVIRONMENTAL SERVICES

POC-ADD UNIVERSITY OF VIRGINIA

POC-STATE CHARLOTTESVILLE, VA 22903

POC-PHONE 804-924-7761

PRIN-INVEST FELDER

PUB-DATA 1. FELDER, W.N., 1978. PHD DISSERTATION
DEPT. OF ENVI. SCI., UNIV OF VA.

TIME-STEP HOURS-DAYS SPACE-SCALE

IN-GRID 2 DIMENSIONS OUT-GRID SAME

IN-AXES OUT-AXES

IN-PATTERN RECTANGULAR OUT-PATTERN SAME

IN-VAR DEPTH OUT-VAR DEPTH AT GRID POINTS

IN-CONST GRID SQUARE DIMENSIONS
WAVE PERIOD ANGLE
DEEP WATER WAVE HEIGHT

REMARKS THIS MODEL USES THE SEA BREEZE REFRACTION MODEL TO REFRACT
INCOMING WAVES. THE WAVES CAUSE BOTTOM SEDIMENT TRANSPORT
BETWEEN GRID SQUARES RESULTING IN THE SIMULATION OF BAR
FORMATION. THE WAVE REFRACTION PATTERN IS ALTERED TO
CONFORM TO BATHYMETRY CHANGES AFTER EACH TIME STEP.
CALIBRATION:
MUST HAVE SAMPLE OF ORIGINAL AND FINAL BATHYMETRY AND INPUT
DATA FOR THE INTERVENING PERIOD IN ORDER TO ESTABLISH
VALUES FOR 3 CALIBRATION CONSTANTS.

3.2.3 Analog Mode Option

The analog mode permits retrieval of records of data sources for areas which are physically similar to the area in question. When the analog mode is selected, the user is prompted to provide the physical parameters which describe the coastal environment of the coastal area of interest. The system will search up to sixteen descriptive parameters. These parameters and their code numbers are:

- 01 COASTAL LANDFORM TYPE - REGIONAL GEOLOGY
- 02 COASTAL LANDFORM TYPE - RELIEF
- 03 COASTAL LANDFORM TYPE - SHORELINE CHARACTER
- 04 WAVES - SIGNIFICANT BREAKER HEIGHT
- 05 WAVES - WAVE CLIMATE CLASS
- 06 TIDAL RANGE
- 07 TIDAL TYPE
- 08 STORM FREQUENCY
- 09 BEACH MATERIALS - PARTICLE SIZE
- 10 BEACH MATERIALS - PARTICLE TYPE
- 11 BOTTOM MATERIALS - PARTICLE SIZE
- 12 BOTTOM MATERIALS - PARTICLE TYPE
- 13 COASTAL ORIENTATION
- 14 OFFSHORE CONFIGURATION
- 15 WIND SPEED
- 16 WIND DIRECTION

The user will be asked to select at least eight of the above parameters for comparison. The system will provide lists of value selections for each parameter submitted. After the value selections for the parameters have been input, the system will respond with:

YOUR QUERY HAS BEEN ACCEPTED
N HITS FOR THIS ANALOG SESSION

'N' is the number of matching environments based on eight parameters. You will also be given a number of near hits based on six or seven matching parameters. If a "no hit" response is encountered using at least eight parameters, a location with a similar environment is not available in the data base. The record numbers of comparable beaches will be provided along with instructions on how to access them. After obtaining the output for the beaches, the user will be asked if he wishes to submit another query. He can type Y for another query or N which will terminate access to the CERS data base.

A. Appendix A - Logging-On the NAVOCEANO UNIVAC-1108 Computer

A.1. Logging on the Computer

User interaction with the computer requires that the terminal be 'connected' or 'logged on' to the computer. Methods of connection vary with the terminal type.

Some terminals require that the user dial the computer for connection. For these, special switch settings are necessary. Other terminals are directly connected to the computer. Log on is more simple for these.

A.2. Dial-up Terminals.

1. Switch Settings

- A. Power: ON
- B. Transmission rate: 300 bps
- C. Parity: NONE
- D. Character set: ALT, CAPS LOCK, etc. to make all letters upper case

2. Connection Process

- A. Dial the number of the computer and wait for the tone. The phone should ring no more than twice before being automatically answered. A tone should then be heard. If the line is busy or if a recording indicates that all circuits are in use, try again later. If there is no answer, dial ext 4452 for a recorded message which describes the system status.
- B. After receiving the tone,
 - 1. Place the phone in the accompanying acoustic coupler (look for a note on the coupler as to the placement of the phone mouthpiece), or
 - 2. If no coupler is used, press the DATA button on the terminal or phone and return the receiver to the phone cradle.
- C. Type in the site or terminal ID, provided by the OMIS staff. The computer should then respond with a request for USERID/PASSWORD, followed by a mask to cover the characters to be entered. This entry is also to be provided by the OMIS staff.

SITEID

ENTER USERID/PASSWORD:

>XXXXXXXXXX (mask to cover password)

*DESTROY USERID/PASSWORD ENTRY

*UNIVAC 1100 OPERATING SYSTER VER. 33R2

RUN NUMBER 5

LAST RUN AT: 070280 082123
DATE: 070280 TIME: 122743
> (you may enter OMIS subsystem)

- D. If the output to the terminal is as shown above, the user is ready to access an OMIS subsystem. Otherwise, the output should appear as:

SJTEID
ENTER USERID/PASSWORD:
>XXXXXXXXXX (mask to cover password)

*DESTROY USERID/PASSWORD ENTRY
*UNIVAC 1100 OPERATING SYSTER VER. 33R2
> (enter @RUN entry here)

In this case an @RUN entry is required.

Now input the @RUN entry in the format:

@RUN EUXXXX,HHHHHH999999/8888,QQQ

where XXXX = some identifier (e.g., OMIS)
HHHHHH = an account no. from OMIS staff
999999 = an account code from OMIS staff
8888 = a number matching the USERID
QQQ = a qualifier, from OMIS staff

A.3. Directly Connected Terminals

1. Turn on power- if no blinking 'cursor' appears in the upper left hand corner of the screen, be sure that the switch on the right underside of the terminal is pushed away from you.
2. Be sure that the poll light is blinking (U200) or that the MESSAGE INCOMPL light is blinking (U100).
3. If the light is blinking, the computer is ready to accept the terminal ID. Press the 'SOE' key, then enter the terminal ID.
4. The computer should request USERID/PASSWORD (no mask). From this point proceed as in divisions 2.C and 2.D of instructions for DIAL-UP terminals.

B. Appendix B - Interacting with the NAVOCEANO UNIVAC-1108 Computer

B.1. Interacting with the Computer

Program requests for user input are normally preceded by an explanation of what type of data is desired. The actual request for data entry is marked by a 'prompt' character at the left hand side of the next line. The prompt character used varies with the type of terminal.

A '>' symbol is the character used by typewriter terminals, as well as some video terminals. Uniscope U100 and U200 terminals use a small triangle, referred to on the keyboard as 'SOE' (Start Of Entry).

An entry can be thought of as characters sent to the computer by pressing the TRANSMIT key (typewriter terminals RETURN). Entries should not be started before the prompt appears! Such premature input can result in either the message 'WAIT LAST INPUT IGNORED' or the entry of unwanted characters.

It is important that the use of the 'SOE' by the Uniscope terminals be understood. When the transmit key is hit, characters will be transmitted from the flashing cursor (marking current user position on the screen) to the previous 'SOE' character. Even if the last 'SOE' appears on the previous line, TRANSMISSION WILL START FROM THAT 'SOE'!!! If a user inputs and/or transmits before the system provides the prompt, the result may be an undesirable entry.

There are several minor exceptions to the 'rule' concerning prompting. Assume that a prompt has appeared requesting input. The operating system or a computer operator may send a message to the terminal, such as the ones below.

TIMEOUT WARNING (from operating system)

TB A/C PROBLEMS. PLZ SIGN OFF. (from an operator)

These outputs did not come from the executing program, but were generated by an outside source. After the message the user is taken to the next line, ...but NO PROMPT APPEARS!!! Input, however is still being expected. At this point caution should be exercised by U100 and U200 users. THEY MUST SUPPLY AN 'SOE' CHARACTER BEFORE ATTEMPTING ANY INPUT!!! Characters may then be entered and transmitted.

B.2. Interruption of Program Output

If one wishes to stop the output coming to the terminal, he need only press the 'MESSAGE WAITING', 'BREAK', or 'INTRPT' key (depending on the terminal). The message 'OUTPUT INTERRUPT' is sent to the terminal. This pause allows the user to read the screen contents of the Uniscope before it scrolls off. To request that output be continued, enter '@@CONT'. Any other entry will be taken as a response to the next question... and will cause trouble!!! Remember, U100 and U200 users must first type the 'SOE' character.

Should one wish to skip the rest of the output and proceed to the next question asked, he may enter '@@X O'. Caution: the output detailing the question will also be suppressed, and only a prompt character will appear at the terminal. Input is expected at this point. If the user is familiar enough with the program, he may proceed carefully. He could also enter '*' to back up to the previous question. This can become tricky! Remember, the U100's and the U200's require the 'SOE' before the '@@X O'.

B.3. Terminations

There are several ways in which user programs can cease execution. The most desirable method is to enter the termination characters described by the executing program. Normal termination should then occur. After the executing program terminates, the user may enter '@FIN' to 'sign off' the terminal.

Possible methods of undesirable termination include:

- 1) SYSTEM CRASH (computer dies),
- 2) TIME OUT (the user fails to transmit data within a set time),
- 3) INTERNAL ERROR (the executing program terminates because of its own error, providing the user with an error message),
- 4) IMPROPER INPUT (unless program documentation indicates otherwise, do not enter '@').

While types 3 and 4 cause the effects of a session to be lost, user time out and system crashes are the most damaging to a database. For this reason the user should avoid long pauses during update sessions. If such pauses are necessary, the executing program should be 'normally' terminated, releasing the database.

If, at any time, one receives the message 'DATA IGNORED IN CONTROL MODE', the retrieval program is no longer executing. It must again be entered if continued execution is desired.

C. Appendix C - Search Element Acronyms

RCDID: Record identification number

Study-type: Temporal and spatial characteristics of a study.

Data-type: Measured (real) or model-generated (synthetic) data.

Parameters: The name of the physical entity measured during a study (e.g. waves).

Variable: The particular attribute of the parameter which is being measured (e.g. wave height).

Analyses: Description of analytical treatment of data if any.

Latitude: Location of study site (North or South)

Longitude: Location of study site (East or West)

WMO-Area: World Meteorological Organization code for the study site location.

Country: Code identifying the country in which the study site is located.

Ocean: Code identifying the water body in which the study site is located.

Axshore: (Across-the-shore) environment in which the study site is located.

Status: Active (data are being collected at the time of record input) or inactive (discontinued).

Startdate: Date, for each period of operation, on which data were first collected.

Stop-date: Date, for each period of operation, on which data were last collected.

Length-yr: Length in years of each operating period.

Data-gaps: Percentage of deviations from the stated measurement schedule.

D. Appendix D - C E R S Tables

STUDY TYPE

- | | |
|--------------------|------------------|
| 1 SITE SPECIFIC | 2 DATA SUMMARY |
| 3 LONG TIME-SERIES | 4 SYNOPTIC SCALE |
| 5 MODEL | |

DATA TYPE

- | | |
|----------------------|---------------|
| 1 REAL | 2 SYNTHETIC |
| 3 REAL AND SYNTHETIC | 4 SEE REMARKS |

PARAMETERS

- | | |
|------------------------|------------------------|
| 01 WAVES | 02 TIDES |
| 03 CURRENTS | 04 WIND |
| 11 WATER TEMPERATURE | 12 SALINITY |
| 13 WATER DENSITY | 20 STORMS |
| 21 AIR TEMPERATURE | 22 BAROMETRIC PRESSURE |
| 23 PRECIPITATION | 24 DEW POINT |
| 25 VISIBILITY | 26 SOLAR RADIATION |
| 27 TEMP. OF SUBSTRATE | 30 BATHYMETRY |
| 31 SEDIMENTS | 32 BEACH MORPHOLOGY |
| 33 BCH CHARACTERISTICS | |

MEDIUM

- | | |
|------------------------|----------------------|
| 0 UNKNOWN | 1 MAGNETIC TAPE |
| 2 PUNCHED CARDS | 3 PUNCHED PAPER TAPE |
| 4 STRIP CHARTS | 5 DATA SHEETS |
| 6 REPORTS/PUBLICATIONS | 7 MAPS/CHARTS |
| 8 MICROFILM | 9 SEE REMARKS |

AVAILABILITY

- | | |
|----------------------------------|------------------------------|
| 0 UNKNOWN | 1 FREE ON REQUEST |
| 2 COST OF RETRIEVAL/REPRODUCTION | 3 PERMISSION OF INVESTIGATOR |
| 4 ONSITE USE ONLY | 5 PUBLISHED |
| 6 SUBSCRIPTION | 7 COMPUTER COST |
| 9 SEE REMARKS | |

ANALYSIS

- 1 DATA HAVE BEEN ANALYZED, SEE REMARKS
- 2 DATA HAVE NOT BEEN ANALYZED
- 3 STATE OF DATA ANALYSIS IS UNKNOWN

COUNTRY

AC ALGERIA
AY ANTARCTICA
BF BAHAMAS
BE BELGIUM
BR BRAZIL
CA CANADA
CJ CAYMAN ISLANDS
KT CHRISTMAS ISLAND
DA DENMARK
FI FINLAND
GB GABON
GJ GRENADA
GQ GUAM ISLAND
IR IRAN
JQ JOHNSTON ATOLL
LY LIBYA
MB MARTINIQUE
MQ MIDWAY ISLAND
NU NICARAGUA
PK PAKISTAN
PL POLAND
SC SENEGAL
UR SOVIET UNION
ST ST. LUCIA
NS SURINAM
TH THAILAND
TC UNITED ARAB EMIRATES
IQ US MISC PACIFIC IS
WQ WAKE ISLAND
YO YUGOSLAVIA

AQ AMERICAN SAMOA
AS AUSTRALIA
BB BARBADOS
BD BERMUDA
VI BRITISH VIRGIN IS
EQ CANTON ISLAND
CH CHINA
CU CUBA
GC E. GERMANY
FR FRANCE
UK GREAT BRITAIN
GP GUADELOUPE
GY GUYANA
JA JAPAN
KU KUWAIT
MY MALAYSIA
MX MEXICO
NL NETHERLANDS
NO NORWAY
PP PAPUA/NEW GUINEA
RQ PUERTO RICO
SF SOUTH AFRICA
SP SPAIN
VC ST. VINCENT
TW TAIWAN
TD TRINIDAD AND TOBAGO
US UNITED STATES
VQ VIRGIN ISLANDS (U.S.)
GE W. GERMANY

OCEAN

ADS ANDAMAN SEA
ARC ARCTIC OCEAN
BBG BAY OF BENGAL
GCA GULF OF CALIFORNIA
MED MEDITERRANEAN
NPC NORTH PACIFIC
PNG PERSIAN GULF
SPC SOUTH PACIFIC
STRAIT OF TAIWAN

ARS ARABIAN SEA
BLT BALTIC SEA
CBB CARIBBEAN SEA
GMX GULF OF MEXICO
NAT NORTH ATLANTIC
NTH NORTH SEA
SAT SOUTH ATLANTIC
SML STRAIT OF MALACCA

AXSHORE

1 ONSHORE
3 OFFSHORE

2 NEARSHORE

GAP

0 UNKNOWN
2 11-20 PCT
4 31-40 PCT
6 GT 50 PCT

1 0-10 PCT
3 21-30 PCT
5 41-50 PCT

VARIABLE

0100 WAVES
0102 WAVE PERIOD
0104 WAVE ENERGY
0106 WAVE DIRECTION
0108 SURF/BREAKER PERIOD
0110 SURF DIST.OFFSHORE
0112 SIGNIFICANT WAVE HT
0114 BREAKER ANGLE
0116 WAVE SWASH POSITION
0118 WAVE LENGTH
0120 WAVE ENERGY SPECTRA
0200 TIDES
0202 HT OF HI + LO TIDE
0204 WATER/TIDE LEVEL
0301 LONGSHORE CURR SPD
0303 SURFACE CURRENT SPD
0305 CURRENT PROFILE
0311 TIDAL CURR DIR.
0316 RIP CURRENT SPACING
0318 BOTTOM CURRENT DIR
0401 SURFACE WIND SPEED
0403 WIND FORCE
0405 WIND DIR. PROFILE
1101 SEA SURFACE TEMP.
1103 WATER TEMP PROFILE
1200 SALINITY
1202 SUBSURFACE SALINITY
1204 SALINITY PROFILE
1301 SURFACE WTR DENSITY
2001 STORM TRACK
2003 STORM SURGE
2005 STORM FORWARD SPEED
2007 STORM FREQUENCY
2009 STORM LATERAL EXTENT
2100 AIR TEMPERATURE
2102 AIR TEMP PROFILE
2201 SL BAROM. PRESSURE
2301 SURFACE PRECIP.
2303 PRECIP. TYPE
2305 PRECIP AT ALTITUDE
2401 SURFACE DEW POINT
2403 RELATIVE HUMIDITY
2501 SURFACE VISIBILITY
2601 SOLAR RAD. AT SL
2700 TEMP. OF SUBSTRATE

0101 WAVE HEIGHT
0103 WAVE AMPLITUDE
0105 WAVE POWER
0107 SURF/BREAKER HEIGHT
0109 SURF ZONE WIDTH
0111 BREAKER TYPE
0113 WAVE HEIGHT SPECTRA
0115 WAVE SWASH VELOCITY
0117 BREAKING DEPTH
0119 TOTAL WAVE ENERGY
0121 INFRAGRAVITY WAVES
0201 TIMES HI + LO TIDE
0203 CONTINUOUS TIDE ROD
0300 CURRENTS
0302 LONGSHORE CURR DIR
0304 SURFACE CURRENT DIR
0310 TIDAL CURRENT SPEED
0315 RIP CURRENT SPEED
0317 BOTTOM CURRENT SPD
0400 WIND
0402 SURFACE WIND DIR
0404 WIND SPEED PROFILE
1100 WATER TEMPERATURE
1102 SUBSURFACE TEMP.
1104 BOTTOM WATER TEMP.
1201 SURFACE SALINITY
1203 BOTTOM SALINITY
1300 WATER DENSITY
2000 STORMS
2002 STORM LANDFALL
2004 RADIUS OF MAX WINDS
2006 DIRECTION OF MOTION
2008 CENTRAL PRESSURE
2010 STORM VERT. EXTENT
2101 SURFACE AIR TEMP.
2200 BAROMETRIC PRESSURE
2300 PRECIPITATION
2302 PRECIP. INTENSITY
2304 PRECIP. CHARACTER
2400 DEW POINT
2402 DEWPOINT PROFILE
2500 ATMOSPHERIC VIS.
2600 SOLAR RADIATION
2602 NET SOLAR RADIATION
2701 SUBSFC TEMP PROFILE

VARIABLE (Continued)

2702 GROUND SURFACE TEMP	3000 BATHYMETRY
3001 SPOT DEPTH SOUNDING	3002 TRACK LINE BATHY
3003 NEARSH DEPTH PROFILE	3004 BATHYMETRIC SURVEY
3005 NEARSHORE SLOPE	3100 SEDIMENTS
3101 BOTTOM SED. SIZE	3102 BEACH SEDIMENT SIZE
3103 BOTTOM SED. MINERALS	3104 BEACH SED. MINERALS
3105 BOTTOM SED. SAMPLE	3106 BEACH SED. SAMPLE
3107 BOTTOM CHARACTER	3108 SEDIMENT TRANSPORT
3109 SUSPEND. SED SAMPLE	3110 SUSPENDED SED. SIZE
3111 DUNE SED. SAMPLE	3112 DUNE SEDIMENT SIZE
3113 TURBIDITY	3114 BOTTOM SED. DENSITY
3200 BEACH MORPHOLOGY	3201 BEACH FORESHR SLOPE
3202 BEACH BACKSHR SLOPE	3203 BERM FACE SLOPE
3204 BEACH CUSP SPACING	3205 BEACH PROFILE
3206 BEACH PLAN SHAPE	

METHOD

00001 REMARKS	01001 VISUAL ESTIMATES
01002 FIXED STAFF, VISUAL	01003 PRESSURE GAUGE
01004 STEP RESISTANCE GAUGE	01005 STEP CAPAC. GAUGE
01006 PARALLEL WIRE INDUCT	01007 VERTICAL ACCELEROMTR
01008 THERMOPILE	01009 HINDCAST
01010 COMPASS	01011 PROTRACTOR
01012 THEODOLITE	01013 WAVE GAUGE ARRAY
01014 2-DIMEN. GAUGE ARRAY	01015 LINEAR GAUGE ARRAY
01016 HORIZ. ACCELEROMETER	01017 TIMING DEVICE
01018 TIMES NO OF CRESTS	01019 SEISMOMETER
01020 VIBRO PRESSURE GAUGE	01021 S-M-B HINDCAST
01022 NUMERICAL MODEL	01023 TIMED SWASH ADVANCE
01024 HANDHELD ROD, VISUAL	01025 TRANSIT
01026 PELORUS	01027 SURFACE SLOPE ARRAY
01028 RESISTANCE WIRE GAUGE	01030 CONTINUOUS GAUGE
01031 WAVERIDER BUOY	01032 PITCH AND ROLL BUOY
02001 FLOAT GAUGE	02002 BUBBLER GAUGE
02003 FIXED STAFF, VISUAL	02004 PREDICTION MODEL
02005 ADR FLOAT GAUGE	02006 CAPACITANCE GAUGE
02007 PRESSURE GAUGE	02008 TIDE GAUGE
03001 VISUAL ESTIMATE	03002 SURFACE DRIFTER
03003 MID-DEPTH DRIFTER	03004 BOTTOM DRIFTER
03005 DYE PATCH	03006 SAVONIUS ROTOR
03007 IMPELLOR	03008 ELECTRO-MAG METER
03009 2-COMP ELEC-MAG MTR	03010 COMPASS
03011 CURRENT DROGUE	03012 PROFILING CURR. MTR.
03013 CURRENT METER	04001 IMPELLOR ANEMOMETER
04002 SAVONIUS ROTOR	04003 DIRECTION VANE
04004 ESTIMATE	04005 RAM-AIR-PRESSURE MTR
04006 VORTEX FREQUENCY MTR	04007 TRIPLE REGISTER
04008 WIND RECORDER	04009 CUP ANEMOMETER
11001 MERCURY THERMOMETER	11002 REVERSING THERMOM.
11003 IRRADIATION THERMOM	11004 RESISTANCE THERMOM.

METHOD (Continued)

11005 THERMISTOR	11006 BATHYTHERMOGRAPH
11007 BUCKET SAMPLE	11008 STD PROFILER
11009 AIR-SEA THERMOGRAPH	11010 2-LEVEL THERMOGRAPH
12001 TITRATION	12002 CONDUCTIVITY
12003 SALINOMETER	12004 HYDROMETER
12005 STD PROFILLER	13001 HYDROMTR AT STD TEMP
20001 PROBABILITY MODEL	20002 NUMERICAL MODEL
20003 WEATHER RADAR	21001 RESISTANCE THERMOM.
21002 THERMOGRAM	21003 THERMISTOR
21004 MERCURY THERMOMETER	21005 AIR-SEA THERMOGRAPH
22001 ANEROID BAROMETER	22002 CAPACITY DIAPHRAGM
22003 ELECTRO-BAROMETER	22004 BAROGRAPH
22005 MICROBAROGRAPH	23001 RAIN GAUGE
23002 WEATHER RADAR	23003 TRIPLE REGISTER
24001 HYGROMETER	24002 HYGROTHERMOGRAPH
26001 TRIPLE REGISTER	26002 NET RAD. RECORDER
27001 THERMISTOR	30001 FATHOMETER
30002 LEAD LINE	30003 SEA SLED
30004 FIXED STAKES	30005 SOUNDING ROD, VISUAL
30006 ROD AND HORIZON	30007 SIDE SCAN SONAR
30008 SEISMIC REFLECTION	30009 SONIC BOTTOM PROFILING
31001 SIEVING	31002 SETTLING TUBE/RSA
31003 GRAB SAMPLE	31004 RADIOACTIVE TRACER
31005 SURFACE SCOOP	31006 PRESSURE DIFF. RSA
31007 CUMULATIVE WT. RSA	31008 BCH PROFILE VOL CHNG
31009 PUMP SAMPLER	31010 FLUORESCENT TRACER
31011 DRAG SAMPLER	31013 WATER SAMPLER
31013 PRESSURE DIFFERENCE	31014 MICROSCOPIC EXAMINATION
31015 CORE SAMPLE	32001 ESTIMATED
32002 HANDLEVEL	32003 INCLINOMETER
32004 ROD AND TRANSIT	32005 FIXED STAKES
32006 ROD-AND-HORIZON	32007 LEVEL AND TAPE
32008 LEAD LINE	32009 PARALLELOGRAM FRAME

RCD-TYPE

1 PRIMARY	2 SECONDARY
3 COMPLEMENTARY	

MODEL TYPE

0 UNKNOWN	1 SEE REMARKS
2 NUMERICAL	3 SIMULATION
4 PHYSICAL	5 STATISTICAL
6 GRAPHIC	7 MATHEMATICAL
8 MIXED SEE REMARKS	

HARDWARE TYPE

0 UNKNOWN	1 SEE REMARKS
2 DIGITAL	3 ANALOG
4 MANUAL	5 HYBRID, SEE REMARKS

SOURCE LANGUAGE

0 UNKNOWN	1 SEE REMARKS
2 FORTRAN	

OUTPUT MODE

00 UNKNOWN	01 SEE REMARKS
02 LINE PRINTER	03 CRT DISPLAY
04 STRIP CHART	05 METER
06 MAGNETIC TAPE	07 PUNCHED PAPER TAPE
08 COM (MICROFICHE)	09 AUDIO
10 PHYSICAL	11 PEN AND PAPER

USABILITY

0 UNKNOWN	1 SEE REMARKS
2 UNDOCUMENTED	3 EXTENSIVE PROGRAMMING REQUIRED
4 SOME PROGRAMMING REQUIRED	5 EASILY IMPLEMENTED
6 FULLY IMPLEMENTED	7 IN USE OPERATIONALLY

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UV/DES		1
OSU/SO		1
UW/DO		1
URI/GSO		1
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UM/RSMAS		1
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**DAT
FILM**