

Unique No.: 193757

Date of Entry: 07/24/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000121 Reference No.: 319918
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape

Exchange Format: E001 - Low Resolution STD

Processing Format: C022 - Low Resolution STD (SD2 Format)

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 3112

Country/Platform Code: 31RD

Platform Type (DINDB): 09 - Ship

Orig. Cruise ID: TV5152

Cruise Start Date: 01/09/87

Project Code:

Cruise End Date: 01/27/87

Data Use Code (DUC): 3

Number of Stations: 17

Number of Records: 3,673

If stations/records not appropriate then:

Number:

Units:

Ocean Area:

Code 1: 32B Meaning: SW Atlantic (limit-20 W)
Code 2: Meaning:
Code 3: Meaning:

DINDB Transaction Date:

Unique No.: 193761

Date of Entry: 07/24/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000121 Reference No.: 319919
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape

Exchange Format: E001 - Low Resolution STD

Processing Format: C022 - Low Resolution STD (SD2 Format)

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 3112

Country/Platform Code: 31RC

Platform Type (DINDB): 09 - Ship

Orig. Cruise ID: TV5154

Cruise Start Date: 06/01/88

Project Code:

Cruise End Date: 06/16/88

Data Use Code (DUC): 3

Number of Stations: 39

Number of Records: 6,337

If stations/records not appropriate then:

Number:

Units:

Ocean Area:

Code 1: 23A Meaning: NE Atlantic (limit-40 W)

Code 2: 32B Meaning: SW Atlantic (limit-20 W)

Code 3: Meaning:

DINDB Transaction Date:

Do NOT
PROCESS

Unique No.: 193759

Date of Entry: 07/24/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000121 Reference No.: 329622
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape

Exchange Format: E001 - Low Resolution STD

Processing Format: C022 - Low Resolution STD (SD2 Format)

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 3112 Country/Platform Code: 32EV

Platform Type (DINDB): 09 - Ship Orig. Cruise ID: TV5153

Cruise Start Date: 11/05/89 Project Code:

Cruise End Date: 11/12/89 Data Use Code (DUC): 3

Number of Stations: 20 Number of Records: 4,224

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 23A Meaning: NE Atlantic (limit-40 W)
 Code 2: 23B Meaning: NW Atlantic (limit-40 W)
 Code 3: Meaning:

DINDB Transaction Date:

ACCESSION NO. 90 00121 FILETYPE C022 TRACK NO. _____ PROJECT IDENTIFICATION _____

319918-9; 3 29622

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	6-14-90	C.M.H.	A01196 NL	82	80	8000	232,533
DUPLICATE TAPE 6-29-90	6-29-90	C.M.H.	W13461 NL	82	80	8000	↓
REFORMATTED TAPE #1	7-19-90	R.P.S.	W17417 *	1	120	12000	7,897
REFORMATTED DISK TAPE #2	7-19-90	R.P.S.	W15765 **	1	120	12000	6,337
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* = ~~319918~~ 319918 & 329622
 ** = 319919

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

BOTH TAPES LABELLED;
 DNODE *CONRADOUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG-12008W3PH9</i>	Submit Date <i>06/27/90</i>	Due Date <i>ASAP</i>
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PART A

Request/Problem Category

☐ General Info ☐ Communications ☐ Equipment ☐ Supplies
☐ Software ☐ Tape Library ☒ Computer Operations
☐ Other Specify:

Request/Problem Description:

*Copy tape A01196 to a 'W' tape
Please scan 'W' tape*

PART B (For Operator Job Requests)

Operator Job Request Type

☐ Run BRBUOY procedure Name: _____ ☐ See attached list
☐ Run SELBUOY procedure Name: _____ ☐ See attached list
☐ Run BUOYSUM procedure Name: _____ ☐ See attached list
☐ Run OTHER procedure - see SPECIAL INSTRUCTIONS
☐ Tape Scan
☒ Tape to Tape Copy Scan OUTPUT tape? ☒ yes ☐ no
☐ Disk to Tape Copy Scan OUTPUT tape? ☐ yes ☐ no
☐ Tape to Disk Copy
☒ Print ☐ 80 column ☒ 132 column ☐ HEX ☐ OCTAL ☐ Character
 All files/records? ☐ yes ☐ no, see SPECIAL INSTRUCTIONS
☐ Restore VAX file Name: _____
☐ OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

Please send 'W' tape to Asheville, N.C.

JOB INPUT Id#/Filename: *D05514*

Medium: ☒ Tape ☐ Disk ☐ Diskette ☐ Other Specify:
 Code: ☒ ASCII ☐ EBCDIC ☐ Binary ☐ Other Specify:
 Tape Specs: ☐ 800 ☒ 1600 ☐ 6250 ☒ NL ☐ SL
 MAX Record Length: *80* MAX Blocksize: *8000*

JOB OUTPUT Id#/Filename: *W13464*

Medium: ☒ Tape ☐ Disk ☐ Diskette ☐ Other Specify:
 Code: ☒ ASCII ☐ EBCDIC ☐ Binary ☐ Other Specify:
 Tape Specs: ☐ 800 ☒ 1600 ☐ 6250 ☒ NL ☐ SL
 MAX Record Length: *80* MAX Blocksize: *8000*

(OC3 Use Only)

JOB Number: *90062705* Date/Time Start: *6-29-90/9:50*

Completed By: *JS* Date/Time Completed: *6-29-90/10:10*

Please scan tape

INPUT MEDIUM PAPER CARD DISK <u>TAPE</u> DISKETTE OTHER(SPECIFY)		OUTPUT MEDIUM CARD DISK <u>PRINT</u> TAPE PLOT DISKETTE OTHER(SPECIFY)	
------------------------------------------------------------------------	--	------------------------------------------------------------------------------	--

TAPE/DISKETTE INFORMATION

INPUT	TAPE #/DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A01196		9	1600					8000	82
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	TAPE #/DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

Please return tape A01196 to Bin 09.

31 USE ONLY

B #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
061305	6-14-90	10:00	10:10	C	COMPLETED BY J.S.

9000121
A01196



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL ENVIRONMENTAL SATELLITE, DATA,
AND INFORMATION SERVICE
Washington, D.C. 20233

Date: May 23, 1990

To : Dr. Tony Picciolo
National Oceanographic Data Ctr.

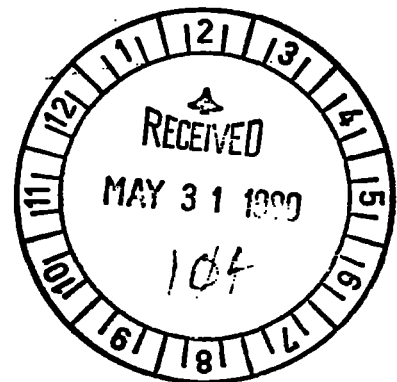
From: George Heimerdinger

Subj: Data Submission

The enclosed reel of magnetic tape contains the CTD data from the R/V Robert Conrad cruise 28-01, January 1987, Robert Conrad cruise 29-06, May-June 1988, and Endeavor cruise 205 October 1989 and Inverted Echo Sounder (IES) data from four subsurface mooring sites. The IES data sets on files 79 and 80 (site names SAL and SOL) duplicate data previously sent to NODC on SEQUAL Data Tape #3. The data on the SEQUAL tape for sites SAL and SOL should be purged (see attached documentation). The CTD data have been formatted to the NODC CTD exchange format except that the record length has been expanded to 80 bytes. These data have been released by Dr. Eli Katz, Lamont-Doherty Geological Observatory.

- a..One reel of magnetic tape 9 track, 1600 bpi, ascii, rec=80, block=8000, one file per station/mooring,
- b..File one of this tape is a documentation file, a printed version attached.
- c..Sample dump of file 2 and 78.
- d..Katz letter of transmittal to this office.

cc: E. Katz



Note: Check the sample dumps for data records that need to be deleted.



Lamont-Doherty Geological Observatory
of Columbia University

Palisades, N.Y. 10964

Cable: LAMONTGEO
Palisades New York State
TWX-710-576-2653

Telephone: Code 914, 359-2900

May 17, 1990

Mr. George Heimerdinger
NODC Regional Liason Officer
JWoods Hole Oceanographic Institution
Woods Hole, MA 02543

Re: Data Tape

Dear George:

Enclosed please find a data tape containing multiple years of CTD dat (1987-1989) in the NODC exchange format and multiple years of Inverted Echo Sounder dat (1983-1989) in the same format as used for the Sequal/Focal data set.

I don't recall if we submitted any of the CTD data earlier. However, if we did then this should replace the earlier transmittals since we recalibrated the data. The IES files do contain some data submitted earlier, namely the 1983-1984 period, but it would be best to keep the present file intact as we have gone to some effort to connect data from several deployments with slightly different deployment depths into a single sensible time series. The adjustments are specified in the heading of each IES file.

Please check our documentation and tapes for readability and then forward to NODC. The programmer who prepared the tapes and documentation is Mr. Bruce Anwar and he can be reached on extension 468. Feel free to call him with any questions you might have.

Yours sincerely,


Eli Joel Katz

Encs.
EJK:stm

File: readme.doc

This tape contains 82 files as follows:

File #1: readme.doc

Files #2-#77: ctd casts #33-111 inclusive
(there is no ctd cast #50).

Files #78-82: 5 inverted echo sounder (ies) records
as follows:

File #78: 1 one-year ies record (LIS3)
File #79: 1 6-year ies record (SAL1-6)
File #80: 1 6-year ies record (SOL1-6)
File #81: 1 2-year ies record (TED1-2)
File #82: 1 one-year ies record (TOM1)

The tape was formatted as follows:

dd if=* of=/dev/nrmt0m cbs=80 obs=8000 conv=block (REC= 80 , BLK= 8000)

The files are formatted as follows:

CTD data format

The CTD data is formatted in U.S. National Oceanographic
Data Center Exchange Format, which is defined as follows:

The header fields are as follows:

SHIP: Identifies the ship (NODC platform code),
CRUIS: cruise number (optional),
STAT: station number,
C#: cast number,
DATE: date,
TIME: time,
LAT: latitude,
LG: longitude,
MAX. PRS: maximum pressure measured (db) (optional; default=0),
DEPTH: water depth (meters) (optional; default= -9),
AVER: interval to which the data were interpolated (meters),
INST: ctd instrument (optional; default=0),
OBS: number of observations,
FMT: fortran format,
Comment lines (optional) follow the above header lines

The data are in five columns (format: F7.1,2F8.4,F6.2,I6) with the following
column headers:

DEPT: depth (m)
TEMP: temperature (C.)
SALT: salinity (PSU)
OXYG: oxygen
QUAL: quality

In cases where oxygen data is not available (this is the case for all
the files on this tape) the default value of -9.90 is recorded for each depth.

The quality column represents a flag which is 1 by default and 0 for lines of
data which were interpolated over an interval of > 10 dbars.

For example, the following is the first 9 lines of the file #2:

SHIP RD CRUIS STAT: 33 C#: 1
DATE 87-01-09 TIME: 1626 Z
LAT -14 38.00 LG -35 46.00
MAX. PRS= 0 DB DEPTH= -9 M
AVER 1.0 INST 0 RATE 0.00HZ

```
OBS= 535 FMT(F7.1,2F8.4,F6.2,I6)
DEPT  TEMP    SALT  OXYG  QUAL
 0.0  0.0000  0.0000 -9.90   0
 1.0  0.0000  0.0000 -9.90   0
```

ies data format

The ies data is in NODC format for pressure gauge data (File Type FT-017) as adapted for ies data. Specifically, 50-character fields as follows:

Parameter	Description
Text record	always '1'
gauge number	5-character field
text	20-character field
sequence number	xxxxxx
blanks	
gauge master record	always '2'
gauge number	5-character field
latitude	DDMMXX plus hemisphere 'N' or 'S' (minutes to 1/100)
longitude	DDDMMXX plus hemisphere 'E' or 'W' (" " ")
Depth	XXXXXX (meters)
Nmber of detail records	XXXXXX
blanks	
Detail record	always '4'
gauge number	5-character field
date (GMT)	YYMMDD
time (GMT)	XXXXXXX (hrs, min -- to 1/100)
return time	7-character field, return time in 4 digits (3 significant digits removed as indicated in header text)
3 blanks	
sequence number	XXXXXX
blanks	

For example, the following is the first 19 lines of file #78:

```
1LIS  INVRTD ECHO SOUNDER00001
1LIS  1 DEPLOYMENT:      00002
1LIS  LIS3 0 0.0N 00 58.0W00003
1LIS  FROM 86/5/12 1100Z  00004
1LIS  TO 87/9/10 1100Z   00005
1LIS  MOST SIGNIFICANT   00006
1LIS  DIGITS 6.41 REMOVED 00007
1LIS  * 1000 => MILLISECS 00008
1LIS  2 WAY TRAVEL TIME  00009
1LIS  SAMPLING PERIOD=2HRS00010
1LIS  DATA IN THE INTERVAL00011
1LIS  FROM 86/5/27 2300Z  00012
1LIS  TO 86/6/3 1500Z    00013
1LIS  WAS REPLACED BY 3RD 00014
1LIS  ORDER POLYNOMIAL FIT00015
1LIS  TO NEIGHBORING DATA 00016
2LIS  000000N0005800W0493505833
4LIS  86051211000000    6943   1
4LIS  86051213000000    6454   2
```

ce Anwar

DGO, 12 May 1990

VAUSEN REF #
319918

MULDARS TRACK #
715152

MONITOR: CONTACT
M. LEWIS

LOCATION OF F022 SOURCE
Arch 003

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

003

Temp at 5m.
Should be 26766
not 06766

corrected
10/19/90
M. K. L.

VANSEN REF #
329622

MULDARS TRACK #
72515-3

MONITOR: CONTACT
M LEWIS

LOCATION OF F022 SOURCE
ARCHIVES

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

NONE

DINDB QUERY LISTING
06/07/1991

*
CRUISE DATES STA STA
ACC-NO REFNO F-A PROJ INST PLAT CRUISE START END IN OUT

* 9000121 TV5152 F022 **** 3112 31RD 28-01 01/09/1987 01/27/1987 17 0
* TV5153 F022 **** 3112 32EV EN-205 11/05/1989 11/12/1989 20 0
* TV5154 F022 **** 3112 31RD 29-06 06/01/1988 06/16/1988 39 0

> Do Not Process

ALT-F10 HELP 3 VT-100 3 FDX 3 9600 N81 3 LOG CLOSED 3 PRT OFF 3 CR 3 CR

ACCESSION NO. 90 00121 FILETYPE F022

TRACK NO. TV5152-54

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	6-14-90	C.M.H.	A01196 NL	82	80	8000	232533
DUPLICATE TAPE	6-29-90	C.M.H.	W13461 NL	82	80	8000	↓
REFORMATTED TAPE #1	7-19-90	R.P.S.	W17417 *	1	120	12000	
REFORMATTED TAPE TAPE #2	7-19-90	R.P.S.	W15765 **	1	120	12000	
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * = TV5152-5153 W17417

** = TV5154 W15765

BOTH TAPES ARE LABELLED:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

DN0DC * CONRADOUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Unique No.: 193760

Date of Entry: 07/24/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000121 Reference No.: TV5154
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape
Exchange Format: E071 - WHOI CTD Exchange
Processing Format: F022 - CTD/STD

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 3112 Country/Platform Code: 31RD
Platform Type (DINDB): 09 - Ship Orig. Cruise ID: 29-06
Cruise Start Date: 06/01/88 Project Code:
Cruise End Date: 06/16/88 Data Use Code (DUC): 3

Number of Stations: 39 Number of Records: 6,337

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 23A Meaning: NE Atlantic (limit-40 W)
 Code 2: 32B Meaning: SW Atlantic (limit-20 W)
 Code 3: Meaning:

DINDB Transaction Date:

Cliff Huxley

473-5236

EE 1210 E43/H/H-7

Sigurd, 120

AS 1312

07

~~NOT TO BE USED AND NOT TO BE REFORMED~~

06/13/90

● Please scan tape

INPUT MEDIUM				OUTPUT MEDIUM			
PAPER	CARD	DISK	TAPE	CARD	DISK	PRINT	TAPE
DISKETTE	OTHER(SPECIFY)			DISKETTE	OTHER(SPECIFY)		

TAPE/DISKETTE INFORMATION

TAPE #/ DISKETTE		SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
AD1196			9	1600					8000	82
SECTOR SIZE		EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
TAPE #/ DISKETTE		SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
SECTOR SIZE		EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
TAPE #/ DISKETTE		SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
SECTOR SIZE		EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A01196 to Bin 09.

ESTIMATED
EXECUTION
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEY VERIFIED
90061305	6-14-90	10:00	10:10	C	COMPLETED BY J.S.

COMMENTS

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG-12008W3M#9</i>	Submit Date <i>06/27/90</i>	Due Date <i>ASAP</i>
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PART A

Request/Problem Category

☐ General Info ☐ Communications ☐ Equipment ☐ Supplies
☐ Software ☐ Tape Library ☒ Computer Operations
☐ Other Specify:

Request/Problem Description:

*Copy tape AD1196 to a 'W' tape
Please scan 'W' tape*

PART B (For Operator Job Requests)

Operator Job Request Type

☐ Run BRBUOY procedure Name: _____ ☐ See attached list
☐ Run SELBUOY procedure Name: _____ ☐ See attached list
☐ Run BUOYSUM procedure Name: _____ ☐ See attached list
☐ Run OTHER procedure - see SPECIAL INSTRUCTIONS
☐ Tape Scan
☒ Tape to Tape Copy Scan OUTPUT tape? ☒ yes ☐ no
☐ Disk to Tape Copy Scan OUTPUT tape? ☐ yes ☐ no
☐ Tape to Disk Copy
☒ Print ☐ 80 column ☒ 132 column ☐ HEX ☐ OCTAL ☐ Character
 All files/records? ☐ yes ☐ no, see SPECIAL INSTRUCTIONS
☐ Restore VAX file Name: _____
☐ OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

Please send 'W' tape to Asheville, N.C.

JOB INPUT Id#/Filename: *D05514*

Medium: ☒ Tape ☐ Disk ☐ Diskette ☐ Other Specify:
 Code: ☒ ASCII ☐ EBCDIC ☐ Binary ☐ Other Specify:
 Tape Specs: ☐ 800 ☒ 1600 ☐ 6250 ☒ NL ☐ SL
 MAX Record Length: 80 MAX Blocksize: 8000

JOB OUTPUT Id#/Filename: *W13464*

Medium: ☒ Tape ☐ Disk ☐ Diskette ☐ Other Specify:
 Code: ☒ ASCII ☐ EBCDIC ☐ Binary ☐ Other Specify:
 Tape Specs: ☐ 800 ☒ 1600 ☐ 6250 ☒ NL ☐ SL
 MAX Record Length: 80 MAX Blocksize: 8000

(OC3 Use Only)

JOB Number: *90062705* Date/Time Start: *6-29-90/9:50*

Completed By: *JS* Date/Time Completed: *6-29-90/10:10*

9000121
A01196



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL ENVIRONMENTAL SATELLITE, DATA,
AND INFORMATION SERVICE
Washington, D.C. 20233

Date: May 23, 1990

To : Dr. Tony Picciolo
National Oceanographic Data Ctr.

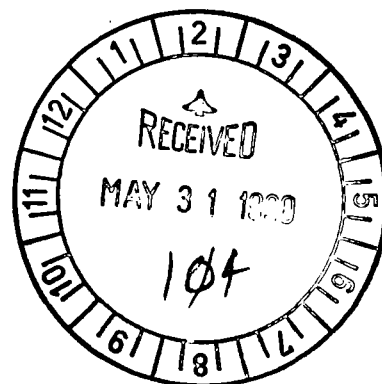
From: George Heimerdinger

Subj: Data Submission

The enclosed reel of magnetic tape contains the CTD data from the R/V Robert Conrad cruise 28-01, January 1987, Robert Conrad cruise 29-06, May-June 1988, and Endeavor cruise 205 October 1989 and Inverted Echo Sounder (IES) data from four subsurface mooring sites. The IES data sets on files 79 and 80 (site names SAL and SOL) duplicate data previously sent to NODC on SEQUAL Data Tape #3. The data on the SEQUAL tape for sites SAL and SOL should be purged (see attached documentation). The CTD data have been formatted to the NODC CTD exchange format except that the record length has been expanded to 80 bytes. These data have been released by Dr. Eli Katz, Lamont-Doherty Geological Observatory.

- a..One reel of magnetic tape 9 track, 1600 bpi, ascii, rec=80, block=8000, one file per station/mooring.
- b..File one of this tape is a documentation file, a printed version attached.
- c..Sample dump of file 2 and 78.
- d..Katz letter of transmittal to this office.

cc: E. Katz



Note: Check the sample dumps for data records that need to be deleted.



Lamont-Doherty Geological Observatory
of Columbia University

Palisades, N.Y. 10964

Cable: LAMONTGEO
Palisades New York State
TWX-710-576-2653

Telephone: Code 914, 359-2900

May 17, 1990

Mr. George Heimerdinger
NODC Regional Liason Officer
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

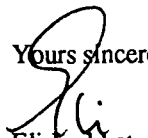
Re: Data Tape

Dear George:

Enclosed please find a data tape containing multiple years of CTD dat (1987-1989) in the NODC exchange format and multiple years of Inverted Echo Sounder dat (1983-1989) in the same format as used for the Sequal/Focal data set.

I don't recall if we submitted any of the CTD data earlier. However, if we did then this should replace the earlier transmittals since we recalibrated the data. The IES files do contain some data submitted earlier, namely the 1983-1985 period, but it would be best to keep the present file intact as we have gone to some effort to connect data from sequential deployments with slightly different deployment depths into a single sensible time series. The adjustments are specified in the heading of each IES file.

Please check our documentation and tapes for readability and then forward to NODC. The programmer who prepared the tapes and documentation is Mr. Bruce Anwar and he can be reached on extension 468. Feel free to call him with any questions you might have.

Yours sincerely,

Eli Joel katz

Encs.
EJK:stm

File: readme.doc

This tape contains 82 files as follows:

File #1: readme.doc

Files #2-#77: ctd casts #33-111 inclusive
(there is no ctd cast #50).

Files #78-82: 5 inverted echo sounder (ies) records
as follows:

File #78: 1 one-year ies record (LIS3)

File #79: 1 6-year ies record (SAL1-6)

File #80: 1 6-year ies record (SOL1-6)

File #81: 1 2-year ies record (TED1-2)

File #82: 1 one-year ies record (TOM1)

The tape was formatted as follows:

dd if=* of=/dev/nrmt0m cbs=80 obs=8000 conv=block (REC= 80 , BLK= 8000)

The files are formatted as follows:

CTD data format

The CTD data is formatted in U.S. National Oceanographic
Data Center Exchange Format, which is defined as follows:

The header fields are as follows:

SHIP: Identifies the ship (NODC platform code),

CRUIS: cruise number (optional),

STAT: station number,

C#: cast number,

DATE: date,

TIME: time,

LAT: latitude,

LG: longitude,

MAX. PRS: maximum pressure measured (db) (optional; default=0),

DEPTH: water depth (meters) (optional; default= -9),

AVER: interval to which the data were interpolated (meters),

INST: ctd instrument (optional; default=0),

OBS: number of observations,

FMT: fortran format,

Comment lines (optional) follow the above header lines

The data are in five columns (format: F7.1,2F8.4,F6.2,I6) with the following
column headers:

DEPT: depth (m)

TEMP: temperature (C.)

SALT: salinity (PSU)

OXYG: oxygen

QUAL: quality

In cases where oxygen data is not available (this is the case for all
the files on this tape) the default value of -9.90 is recorded for each depth.

The quality column represents a flag which is 1 by default and 0 for lines of
data which were interpolated over an interval of > 10 dbars.

For example, the following is the first 9 lines of the file #2:

SHIP RD CRUIS STAT: 33 C#: 1

DATE 87-01-09 TIME: 1626 Z

LAT -14 38.00 LG -35 46.00

MAX. PRS= 0 DB DEPTH= -9 M

AVER 1.0 INST 0 RATE 0.00HZ

```

OBS= 535 FMT(F7.1,2F8.4,F6.2,I6)
DEPT  TEMP  SALT  OXYG  QUAL
  0.0  0.0000  0.0000 -9.90   0
  1.0  0.0000  0.0000 -9.90   0

```

ies data format

The ies data is in NODC format for pressure gauge data (File Type FT-017) as adapted for ies data. Specifically, 50-character fields as follows:

Parameter	Description
Text record	always '1'
gauge number	5-character field
text	20-character field
sequence number	xxxxxx
blanks	
gauge master record	always '2'
gauge number	5-character field
latitude	DDMMXX plus hemisphere 'N' or 'S' (minutes to 1/100)
longitude	DDMMXX plus hemisphere 'E' or 'W' (" " ")
Depth	XXXXXX (meters)
Nmber of detail records	XXXXXX
blanks	
Detail record	always '4'
gauge number	5-character field
date (GMT)	YYMMDD
time (GMT)	XXXXXX (hrs, min -- to 1/100)
return time	7-character field, return time in 4 digits (3 significant digits removed as indicated in header text)
3 blanks	
sequence number	XXXXXX
blanks	

For example, the following is the first 19 lines of file #78:

```

1LIS  INVRTD ECHO SOUNDER00001
1LIS  1 DEPLOYMENT:      00002
1LIS  LIS3 0 0.0N 00 58.0W00003
1LIS  FROM 86/5/12 1100Z  00004
1LIS  TO 87/9/10 1100Z   00005
1LIS  MOST SIGNIFICANT  00006
1LIS  DIGITS 6.41 REMOVED 00007
1LIS  * 1000 => MILLISECS 00008
1LIS  2 WAY TRAVEL TIME  00009
1LIS  SAMPLING PERIOD=2HRS00010
1LIS  DATA IN THE INTERVAL00011
1LIS  FROM 86/5/27 2300Z  00012
1LIS  TO 86/6/3 1500Z    00013
1LIS  WAS REPLACED BY 3RD 00014
1LIS  ORDER POLYNOMIAL FIT00015
1LIS  TO NEIGHBORING DATA 00016
2LIS  000000N0005800W0493505833
4LIS  86051211000000    6943  1
4LIS  86051213000000    6454  2

```

Bruce Anwar

L-DGO, 12 May 1990

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9000121	L103	L00932	0132	3112	317F	1986/05/12	IES	191732
9000121	C022	319918	9999	3112	31RD	1987/01/09	TV5152	191726
9000121	C022	319919	9999	3112	31RD	1988/06/01	TV5154	191727
9000121	F022	TV5152	9999	3112	31RD	1987/01/09	28-01	191729
9000121	F022	TV5154	9999	3112	31RD	1988/06/01	29-06	191731
9000121	C022	329622	9999	3112	32EV	1989/11/05	TV5153	191728
9000121	F022	TV5153	9999	3112	32EV	1989/11/05	EN-205	191730

(7 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
9000121	L103	L00932	317F	16	161068	86/05/12	89/11/07
9000121	C022	319918	31RD	17	34	87/01/09	87/01/27
9000121	C022	319919	31RD	39	79	88/06/01	88/06/16
9000121	F022	TV5152	31RD	17	3673	87/01/09	87/01/27
9000121	F022	TV5154	31RD	39	11743	88/06/01	88/06/16
9000121	C022	329622	32EV	20	40	89/11/05	89/11/12
9000121	F022	TV5153	32EV	20	4224	89/11/05	89/11/12

(7 rows affected)