

DATA DOCUMENTATION FORM

TT3228

NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, D. C. 20390

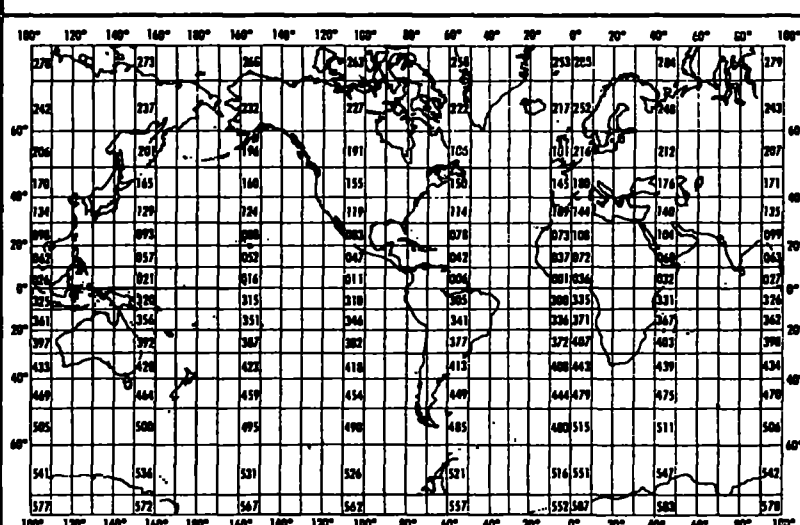
F022

Tape 11496

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED <i>UNIVERSITY of CALIFORNIA INSTITUTE of MARINE RESOURCES</i> <i>MARINE FOOD CHAIN RESEARCH GROUP</i> <i>PO. BOX 109, LA JOLLA, CA., 92037</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>PIQUERO, LEG 7</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME (S) <i>THOMAS WASHINGTON</i>	5. PLATFORM TYPE (S) (E.G., SHIP, BUOY, ETC.) <i>SHIP</i>	6. PLATFORM AND OPERATOR NATIONALITY (IES) PLATFORM OPERATOR <i>USA</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR
8. ARE DATA PROPRIETARY ? <input type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE ? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP) ? (i.e., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE ?) <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>DR. MERRITT STEVENSON</i> <i>IA776</i> <i>LA JOLLA, CA. 92037</i>			

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S 510)	N/A (not applicable)
		STD Bissett-Berman model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING


SEE DATA RECORD


B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

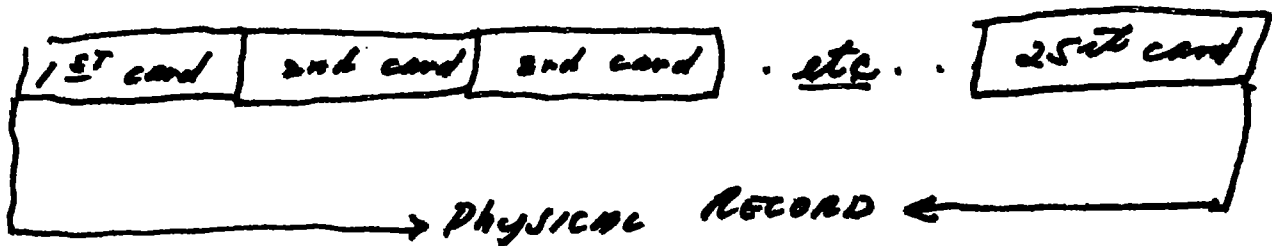
C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

- I. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

25 CARD IMAGES / Physical Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION



3. ATTRIBUTES AS EXPRESSED IN ☐ PL-I ☐ ALGOL ☐ COBOL
☐ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

CHARN PSAROPoulos

ADDRESS

LATTC - 453-2820

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input checked="" type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input checked="" type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
12. PHYSICAL BLOCK LENGTH IN BYTES	
	13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>FIRST CARD</u>					
Cols 1-5					Station number (right oriented)
6-10					Number of observed depths (cards)
					(e.g. 85 = 0 depth + 84)
<u>SECOND CARD</u>					
Col 40					Station number (right oriented)
41-44					Month (all <u>JUNE</u>)
45-46					Day
<u>THIRD CARD and etc</u>					
Cols 1-5					depth
6-10					Temp (°C)
11-16					Salinity (‰)
17-21					Station number (right on water)
SEE ATTACHED PUNCH CARDS					

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

DATA DOCUMENTATION FORM

7100324

NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, D. C. 20390

Page 11496

TI 3228 F022

319571 C022

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the information on the originator of the data. This information is not required for all data submissions, but it is highly desirable. All data submissions should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED
CALIFORNIA INSTITUTE OF MARINE RESOURCES
2030 10th Avenue, S.E.
Seattle, WA 98104

2. EXPECTION PROJECT OR PROGRAM UNDER WHICH DATA WERE COLLECTED

3. PLEASE NUMBER 1-10 USED BY YOU TO IDENTIFY DATA IN THIS SHIPMENT

PIQUERO, LEG 7

4. PLATFORM NAME (S)

THOMAS WASHINGTON

5. PLATFORM TYPE (S)
(E.G., SHIP, BUOY, ETC.)

SHIP

6. PLATFORM AND OPERATOR
NATIONALITY (IES)

USA

7. DATES

FROM: MO/DAY/YR TO: MO/DAY/YR

8. ARE DATA PROPRIETARY?

☐ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH

9. ARE DATA DECLARED NATIONAL
PROGRAM (DNP)?

(i.e., SHOULD THEY BE INCLUDED IN WORLD
DATA CENTERS HOLDINGS FOR INTERNATIONAL
EXCHANGE?)

☐ NO ☐ YES ☐ PART (SPECIFY BELOW)

10. PERSON TO WHOM INQUIRIES CONCERNING
DATA SHOULD BE ADDRESSED WITH
TELEPHONE NUMBER (AND ADDRESS IF
OTHER THAN IN ITEM-1)

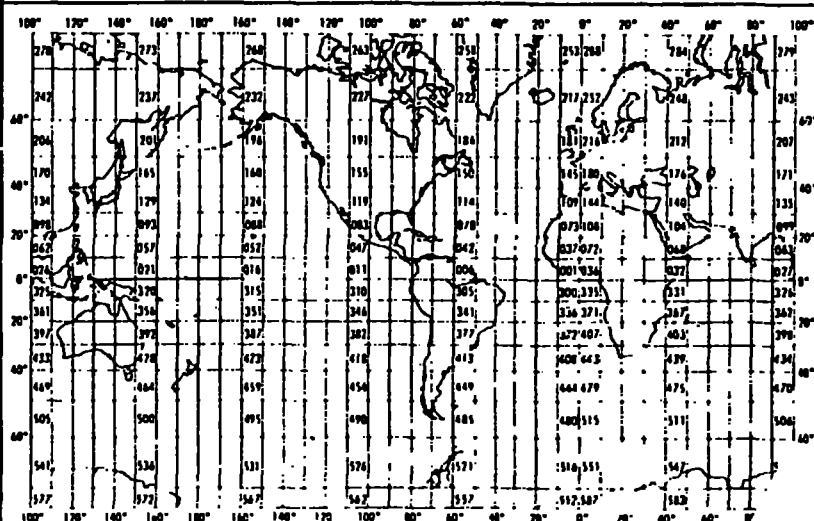
D. J. MERRITT STEVENSON

7776

LA JOLLA, CA. 92037

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA



B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING

→ SEE DATA RECORD ←

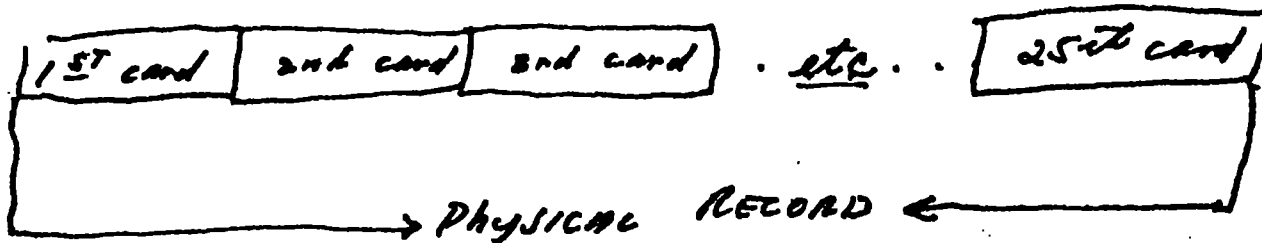
C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

25 CARD IMAGES / Physical Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION



ATTRIBUTES AS EXPRESSED IN

☐ PL-I

☐ ALGOL

☐ COBOL

☐ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

CHARL PSAROPoulos

ADDRESS

LATTC

- 453-2820

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/></p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/></p>	<p>10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/></p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input checked="" type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/></p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>13. LENGTH OF BYTES IN BITS</p>

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>FIRST CARD</u>					
Cols 1-5 - Station number (right oriented)					
6-10 - Number of observed depths (cards)					
(e.g. 85 = 0 depth + 84)					
<u>SECOND CARD</u>					
Col 40 - Station Number (right oriented)					
41-44 - MONTH (ALL <u>JUNE</u>)					
45-46 - Day					
<u>THIRD CARD and etc</u>					
Cols 1-5 - depth					
6-10 - Temp (°C)					
11-16 - Salinity (‰)					
17-21 - Station Number (right on center)					
SEE ATTACHED PUNCH CARDS					



11-0524

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

PLEASE REPLY TO:
FISHERY OCEANOGRAPHY CENTER
P. O. BOX 271
LA JOLLA, CALIFORNIA 92037

Date: March 3, 1971

Reply to
Attention of: NODC Liaison Officer

Subject: Data Transmission

To: Mr. Richard Kuhn, NODC, Roxkville, Maryland 20852

Enclosed is NODC magnetic tape number R 943 containing STD data (smoothed) at one meter intervals for the Cruise Piquero, Leg 7. The tape format is twenty-five (25) card images per physical record. The same as the previously sent tape R 955 (September 11, 1970). All other information and data will have to be abstracted from the also enclosed DATA RECORD.

If you have any problems, please contact me.


Nelson C. Ross
NODC Liaison Officer

Enclosures

ACCESSION NO. 7100324 FILETYPE C022

TRACK NO. 319571

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	R 943	3/3/71			80	2000	
DUPLICATE TAPE	W05637				80	2000	
REFORMATTED TAPE							
REFORMATTED DISK	10/2/85	R.P.S.	DNODC*IAATTCOUT.	1	120	224	5101
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

***** Record 1828 in INVENTORY *****

001843

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

RPS

DATE OF ENTRY: 10/17/85

REFERENCE NUMBER: 319571 ACCESSION NUMBER: 7100324
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
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.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 31U1
PLATFORM (COUNTRY AND PLATFORM CODES): 31WT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: TT3228
CRUISE START DATE: 06/04/69 CRUISE END DATE: 06/21/69 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 57 NUMBER OF RECORDS: 5,101

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

OCEAN AREA

CODE 1: 61B MEANING: SW Pacific (limit-140 W)
CODE 2: _____ MEANING: _____
CODE 3: _____ MEANING: _____

DINDB TRACK TRANSACTION GENERATED: / /

NAHSEN REF. #

319571

7100324

MULDARS TRACK #

TT 3228

MONITOR: CONTACT

Gerald W. Damen

LOCATION OF F022 SOURCE

Archives TT 3228

RECORD ALL ERRORS FOUND

CONSEC(S).

ERRORS FOUND

None

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7100324	F022	TT3228	9999	31U1	31WT	1969/06/04	PIQUERO, LE	14766
7100324	C022	319571	9999	31U1	31WT	1969/06/04	TT3228	14765

(2 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7100324	F022	TT3228	31WT	57	5085	Jun 4 1969	Jun 21 1969

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7100324	C022	319571	31WT	57	85	Jun 4 1969	Jun 21 1969

(1 row affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7100324	F022	TT3228	31WT	57	5085	Jun 4 1969	Jun 21 1969
7100324	C022	319571	31WT	57	85	Jun 4 1969	Jun 21 1969

(2 rows affected)

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7100324	F022	TT3228	9999	31U1	31WT	1969/06/04	PIQUERO, LE	14766
7100324	C022	319571	9999	31U1	31WT	1969/06/04	TT3228	14765

(2 rows affected)

***** Record 1826 in INVENTORY *****

001841

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

RPS

DATE OF ENTRY: 10/16/85

REFERENCE NUMBER: TT3228 ACCESSION NUMBER: 7100324
FORMER REFERENCE NUMBER: _____ FORMER ACCESSION NUMBER: _____ (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E018 - STD/CTD (F022)
PROCESSING (FORMAT): F022 - CTD/STD

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

INSTITUTE (COUNTRY AND INSTITUTE CODES): 31U1
PLATFORM (COUNTRY AND PLATFORM CODES): 31WT
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: _____ ORIGINATORS CRUISE ID: PIQUERO, LEG7
CRUISE START DATE: 06/04/69 CRUISE END DATE: 06/21/69 Press PgDn
PROJECT CODE: _____ DATA USE CODE (DUC): 3 to continue

VOLUME - NUMBER OF STATIONS: 57 NUMBER OF RECORDS: 5,101

If STA/REC counts are not appropriate then enter -

NUMBER: _____ UNITS: _____

OCEAN AREA

CODE 1: 61B MEANING: SW Pacific (limit-140 W)
CODE 2: _____ MEANING: _____
CODE 3: _____ MEANING: _____

DINDB TRACK TRANSACTION GENERATED: / /

ACCESSION NO. 7100324 FILETYPE F022

TRACK NO. TT3228

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	<u>R 943</u>	<u>3/3/1971</u>			<u>80</u>	<u>2000</u>	
DUPLICATE TAPE	<u>W05637</u>				<u>✓</u>	<u>✓</u>	
REFORMATTED TAPE							
REFORMATTED DISK	<u>10/2/85</u>	<u>R.P.S.</u>	<u>DNODC X TATTCOUT.</u>	<u>1</u>	<u>120</u>	<u>224</u>	<u>510</u>
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



11-0324

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

Date: March 3, 1971

Reply to
Attn of: NODC Liaison Officer

PLEASE REPLY TO:
FISHERY OCEANOGRAPHY CENTER
P. O. BOX 271
LA JOLLA, CALIFORNIA 92037

Subject: Data Transmission

To: Mr. Richard Kuhn, NODC, Roxkville, Maryland 20852

Enclosed is NODC magnetic tape number R 943 containing STD data (smoothed) at one meter intervals for the Cruise Piquero, Leg 7. The tape format is twenty-five (25) card images per physical record. The same as the previously sent tape R 955 (September 11, 1970). All other information and data will have to be abstracted from the also enclosed DATA RECORD.

If you have any problems, please contact me.

Nelson C. Ross
NODC Liaison Officer

Enclosures



71-0324

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

Date: March 3, 1971

PLEASE REPLY TO:

FISHERY - OCEANOGRAPHY CENTER

P. O. BOX 271

LA JOLLA, CALIFORNIA 92037

Reply to
Attn of: **NODC Liaison Officer**

Subject: **Data Transmission**

To: **Mr. Richard Kuhn, NODC, Roxkville, Maryland 20852**

See reformat of Reel R463

Enclosed is NODC magnetic tape number R 943 containing STD data (smoothed) at one meter intervals for the Cruise Piquero, Leg 7. The tape format is twenty-five (25) card images per physical record. The same as the previously sent tape R 955 (September 11, 1970). All other information and data will have to be abstracted from the also enclosed DATA RECORD.

If you have any problems, please contact me.

Nelson C. Ross
NODC Liaison Officer

Enclosures