

08/21/89

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

89:00186

The following listed data sets have been transferred as indicated:

Current Meter

(F015)

Acc: 8900186 Ref: TV3464 - TV3483 20 sta. 174,529 rec.

Science Applications

(MMS/GOM Phys. Oceanog.)

cc: Division Director

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900186	TV3464	F015	0125	312H	317F	P-2	06/11/85	06/28/85	1	812
8900186	TV3465	F015	0125	312H	317F	P-3	06/11/85	05/04/86	1	15,694
8900186	TV3466	F015	0125	312H	317F	P-4	06/11/85	05/04/86	1	15,694
8900186	TV3467	F015	0125	312H	317F	Q-1	06/15/85	10/02/85	1	5,238
8900186	TV3468	F015	0125	312H	317F	Q-2	06/15/85	10/02/85	1	5,237
8900186	TV3469	F015	0125	312H	317F	Q-2	10/20/85	05/02/86	1	9,287
8900186	TV3470	F015	0125	312H	317F	Q-3	06/15/85	10/19/85	1	6,053
8900186	TV3471	F015	0125	312H	317F	Q-4	06/15/85	05/04/86	1	15,515
8900186	TV3472	F015	0125	312H	317F	R-1	06/15/85	10/21/85	1	6,165
8900186	TV3473	F015	0125	312H	317F	R-2	06/15/85	10/21/85	1	6,168
8900186	TV3474	F015	0125	312H	317F	R-3	06/15/85	10/21/85	1	6,169
8900186	TV3475	F015	0125	312H	317F	R-4	06/15/85	10/21/85	1	6,167
8900186	TV3476	F015	0125	312H	317F	R-5	06/15/85	10/21/85	1	6,168
8900186	TV3477	F015	0125	312H	317F	S-1	06/12/85	10/18/85	1	6,159
8900186	TV3478	F015	0125	312H	317F	S-2	06/12/85	08/30/85	1	3,808
8900186	TV3479	F015	0125	312H	317F	S-2	11/02/85	05/04/86	1	8,764
8900186	TV3480	F015	0125	312H	317F	S-3	06/12/85	05/04/86	1	15,657
8900186	TV3481	F015	0125	312H	317F	T-1	06/13/85	09/18/85	1	4,690
8900186	TV3482	F015	0125	312H	317F	T-2	06/13/85	05/02/86	1	15,543
8900186	TV3483	F015	0125	312H	317F	T-3	06/13/85	05/02/86	1	15,541

08/21/89

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Current Meter

(F015)

Acc: 8900186 Ref: TV3464 - TV3483 20 sta. 174,529 rec.

Science Applications

(MMS/GOM Phys. Oceanog.)

cc: Division Director

ACCESSION NO. 8900186

FILETYPE F015

TRACK NO. _____

TV3464-3483

PROJECT IDENTIFICATION 0125
MMS/GOM Phy.OC.

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/10/89	FJM	A00935 NL	25	60	3600	206,379
DUPLICATE TAPE	7/18/89	↓	W13063 *	↓	↓	↓	↓
REFORMATTED TAPE	8/1/89	R.P.S.	W12643 **	1	60	6000	174600
REFORMATTED DISK							
FIRST MULCHEK	8/24/89	CBJ	SELDATA.F015TV3464	1	60	6000	174531
FINAL MULCHEK							
MPD75 OR F022	8/24/89	CBJ	MPD75.TV3464/F015	1			174531
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* = NO LABEL

NONE

** LABEL = DNDCKSAICURROUT*

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

NONE

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



Science Applications International Corporation

8900186

June 23, 1989

A00935
A00936

Mr. Francis Mitchell
NOAA/NODC
3300 Whitehaven Street, NW
Washington, DC 20235

Dear Mitch:

Enclosed please find two (2) nine-track magnetic data tapes containing data collected during Year 3 of the Gulf of Mexico Physical Oceanography Program. This work was funded under Minerals Management Service (MMS) Contract Number 14-12-0001-29158, which was awarded to Science Applications International Corporation. The following items have been attached:

- (1) Two (2) data tapes:
 - I - 2400 foot tape containing current meter data in NODC Format 015,
 - 1 - 2400 foot tape containing CTD, XBT and AXBT data in NODC Format 022 and AXCP and Water Chemistry data in NODC Format 004.

- (2) Four (4) printed volumes detailing the information stored on each tape:
 - Volume I - Current Meter Data
 - Volume II - Hydrographic Cruise Data
 - Volume III - Associated Cruise Data
 - Volume IV - AXBT Survey Data

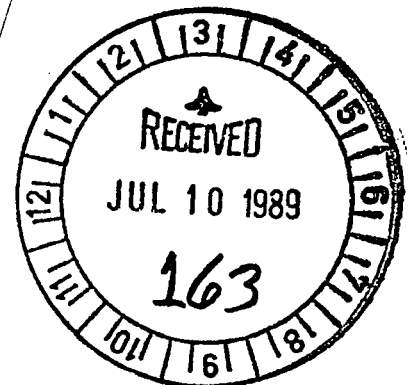
- (3) Appropriate NODC documentation forms for each data type submitted.

If you should have any questions/comments regarding this submission, please feel free to contact me.

Sincerely,

Robert J. Wayland
Senior Meteorologist

Bound
copy
NODC



Enclosures

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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



<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>Science Applications International Corporation Maritime Technology Group / Physical Oceanography Division 4900 Water's Edge Drive suite 255 Raleigh, NC 27606</p>																							
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>Gulf of Mexico Physical Oceanography Program (MMS Contract No. 14-12-0001-2915B)</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p> <p>MOORING ID'S:</p> <table border="1"> <tr> <td>MQR2</td> <td>MQR2</td> <td>MQR2</td> <td>MQR5</td> <td>MQR2</td> </tr> <tr> <td>MQR3</td> <td>MQR3</td> <td>MQR3</td> <td>MQR5</td> <td>MQR3</td> </tr> <tr> <td>MQR4</td> <td>MQR4</td> <td>MQR4</td> <td>MQR5</td> <td></td> </tr> <tr> <td>MQR1</td> <td>MQR1</td> <td>MQR5</td> <td>MQR1</td> <td></td> </tr> </table>		MQR2	MQR2	MQR2	MQR5	MQR2	MQR3	MQR3	MQR3	MQR5	MQR3	MQR4	MQR4	MQR4	MQR5		MQR1	MQR1	MQR5	MQR1	
MQR2	MQR2	MQR2	MQR5	MQR2																			
MQR3	MQR3	MQR3	MQR5	MQR3																			
MQR4	MQR4	MQR4	MQR5																				
MQR1	MQR1	MQR5	MQR1																				
<p>4. PLATFORM NAME(S)</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>MOORING</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IES)</p> <table border="1"> <tr> <th>PLATFORM</th> <th>OPERATOR</th> <th>FROM: MO/DAY/YR</th> <th>TO: MO/DAY/YR</th> </tr> <tr> <td>USA</td> <td>USA</td> <td>06/11/85</td> <td>05/04/86</td> </tr> </table>	PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR	USA	USA	06/11/85	05/04/86	<p>7. DATES</p>												
PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR																				
USA	USA	06/11/85	05/04/86																				
<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___</p>		<p>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</p> <p style="text-align: center;">GENERAL AREA</p>																					
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</p> <p>(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>		<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>Dr. Evans Waddell (Program Manager) SAIC/Raleigh 4900 Water's Edge Dr. suite 255 Raleigh, NC 27606 (919-951-9254)</p>																					

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
<p>Currents</p> <p>Temperature</p> <p>Pressure</p>	<p>cm/s</p> <p>°C</p> <p>dB</p>	<p>Aanderra RCM-4s in the upper 1000 m of the water column, and RCM-5s in the lower part (> 1000 m) of the water column. The upper instrument at each mooring was equipped to measure pressure, <u>not</u> the entire array of instruments.</p>	<p>— NONE —</p>	<p>— NONE —</p>

C. DATA FORMAT

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

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

NODC File Type Ø15
"Current Meter Data (Components)"
April 1985 Version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

25 individual files separated by 1 EOF. 2 EOF's define EOM (End-of-Medium)

3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Robert J. Wayland (919) 857-8356
ADDRESS Science Applications International Cooperation / 4900 Water's Edge Drive, St. 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> IBM</p>
<p>7. PARITY (RS-232) <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">SAIC/Raleigh Tape ID No. : SPØ995</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 3600</p> <p>13. LENGTH OF BYTES IN BITS 60</p>

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type 015

** SEE ATTACHED **

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

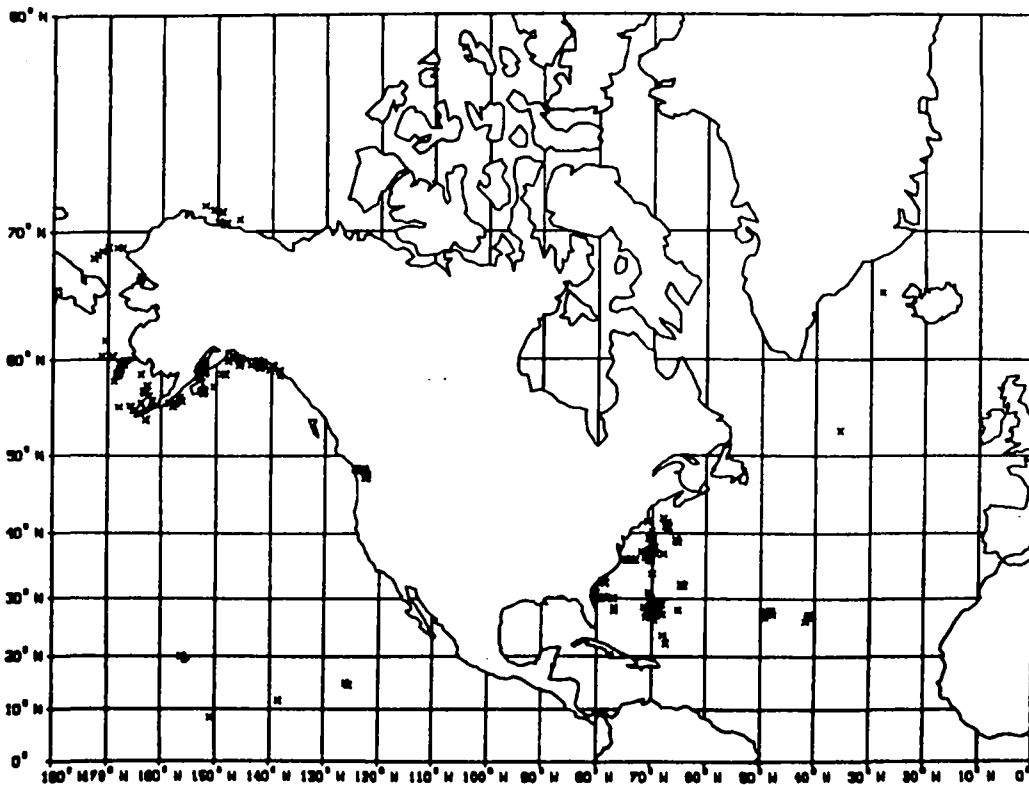
4.1.8 Current Meter Data (Components) (File 015)

Geographic coverage - U.S. East Coast, Coastal Alaska, Puget Sound, Atlantic and Pacific Oceans

Time period - 1962 - present

Description -

This file contains time series measurements of ocean currents. These data are obtained from current meter moorings and represent the Eulerian method of current measurement, i.e., the meters are deployed at a fixed point and measure flow past a sensor. Position, bottom depth, sensor depth, and meter characteristics are reported for each station. The data record comprises values of east-west (u) and north-south (v) current vector components at specified date and time. Current direction is defined as the direction toward which the water is flowing with positive directions east and north and negative directions west and south. Data values may be subject to averaging or filtering and are typically reported at 10-15 minute time intervals. Water temperature, pressure, and conductivity or salinity may also be reported. A text record is available for optional comments.



DATE April 1985	NODC Users Guide	SECTION 4.1.8	PAGE 2
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File structure -

Four 60-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, and (4) Detail Record 2.

File format -

Current Meter Data (Components) (F015)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
METER NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2 AND 3	11
TEXT	THIRTY-EIGHT CHARACTER FIELD FOR COMMENTS OR PERTINENT INFORMATION	16
BLANK		54
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING TEXT INFORMATION	55
MASTER RECORD	ALWAYS '2'	10
METER NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
DEPTH OF BOTTOM	XXXXX (WHOLE METERS)	31
DEPTH OF CURRENT METER	XXXXX (METERS TO TENTHS)	36
METER USAGE SEQUENCE NUMBER (NODC USE)	XXX - USED FOR INDICATING NUMBER OF TIMES METER HAS BEEN USED TWO CHARACTERS FOR NODC INTERNAL USE	41 44
AXIS ROTATION	XXX - DEGREES CLOCKWISE FROM TRUE NORTH OF V AXIS - VALUES SHOULD BE 0 WHEN FINAL PROCESSED TO PROVIDE TRUE DIRECTION INFORMATION	46
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY ORIGINATOR	49
NUMBER OF DETAIL RECORDS	XXXXXX - USED TO INDICATE NUMBER OF DETAIL RECORDS (3) TO FOLLOW THE MASTER RECORD (2)	55
DETAIL RECORD 1	ALWAYS '3'	10
METER NUMBER	SEE RECORD '1'	11
DATE (GMT)	YYMMDD	16
TIME (GMT)	XXXXXX (HOURS, MINUTES TO HUNDREDTHS)	22
EAST-WEST CURRENT COMPONENT (U)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	28

DATE	NODC Users Guide	SECTION	PAGE
March 1984		4.1.8	3

NORTH-SOUTH CURRENT COMPONENT (V)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	34
TEMPERATURE	XXXXX WITH NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN (DEG C TO THOUSANDTHS)	40
PRESSURE	XXXXX (DECIBARS TO TENTHS)	45
CONDUCTIVITY	XXXXX - MMHOS/CM TO HUNDREDTHS	50
BLANK		54
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING DATA RECORDS ORIGINATOR	55
DETAIL RECORD 2	ALWAYS '4'	10
METER NUMBER	SEE RECORD '1'	11
DATE (GMT)	YYMMDD	15
TIME (GMT)	XXXXXX (HOURS, MINUTES TO HUNDREDTHS)	22
EAST-WEST CURRENT COMPONENT (U)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	28
NORTH-SOUTH CURRENT COMPONENT (V)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN	34
TEMPERATURE	XXXXX WITH NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN (DEG C TO THOUSANDTHS)	40
PRESSURE	XXXXX (DECIBARS TO TENTHS)	45
SALINITY	XXXXX PARTS PER THOUSAND TO THOUSANDTHS	50
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING DATA RECORDS	55

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
Aanderra RCM-4	5/85		Aanderra			✓			
Aanderra RCM-5	5/85		Aanderra			✓			

08/16/89

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

8900186

The following listed data sets have been transferred as indicated:

Low Resolution STD (C022)

Acc: 8900186 Ref: 319870 - 319870 sta. rec.

Low Resolution STD (C022)

Acc: 8900186 Ref: 329604 - 329604 sta. rec.

C/STD (F022)

Acc: 8900186 Ref: TV2993 - TV2994 215 sta. 17,557 rec.

Science Applications
(MMS/GOM-Phys. Oceanog.)

Unique No.: 184989

Date of Entry: 08/08/89

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 8900186 Reference No.: TV2994
Former Accession No.: Former Reference No.: (Resub ONLY)

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

Exchange Format: E018 - STD/CTD (F022)

Processing Format: F022 - CTD/STD

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

Country/Institute Code: 312H Country/Platform Code: 32PE

Platform Type (DINDB): 09 - Ship Orig. Cruise ID: PN-8502

Cruise Start Date: 10/22/85 Project Code: 0125

Cruise End Date: 10/25/85 Data Use Code (DUC): 3

Number of Stations: 39 Number of Records: 5,208

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 26 Meaning: Gulf of Mexico

 Code 2: Meaning:

 Code 3: Meaning:

DINDB Transaction Date: 08/10/89

Unique No.: 184988

Date of Entry: 08/08/89

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 8900186 Reference No.: TV2993
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape
Exchange Format: E018 - STD/CTD (F022)
Processing Format: F022 - CTD/STD

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

Country/Institute Code: 312H Country/Platform Code: 57AL
Platform Type (DINDB): 09 - Ship Orig. Cruise ID: AL-8601
Cruise Start Date: 01/23/86 Project Code: 0125
Cruise End Date: 02/04/86 Data Use Code (DUC): 3

Number of Stations: 176 Number of Records: 12,349

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 26 Meaning: Gulf of Mexico
 Code 2: Meaning:
 Code 3: Meaning:

DINDB Transaction Date: 08/10/89

ACCESSION NO. 8900186

FILETYPE *

TRACK NO. _____

PROJECT IDENTIFICATION Ø125
MMS/GOM Phys. OC.

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/10/89	FJM	A00939* NL	15		**	
DUPLICATE TAPE	7/18/89	FJM	W13129 NL	15			
REFORMATTED TAPE	7/27/89	R.P.S.	W14343 ***	1	120	12000	17557
REFORMATTED DISK							
FIRST MULCHEK	8/22/89	CAF	SELDATA.FO22TV2933	1	120	12000	17557
FINAL MULCHEK	8/22/89	"	"				17492
MPD75 OR FO22	8/22/89	"	FO22MARY.TV2933/FO22				17492
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~

** FILES 1-12 = BLK=3600 REC=120
 ↓
 13-15 = BLK=3200 REC=80

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

*** = LABEL: DNOCKSAI CTD OUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)
 DUPLICATE RECORD TYPE 12 DELETED

FILES
~~***~~ * 1-10 ARE
 XBT & AXBT IN
 FO22 FORMAT

11-12 ARE CTD
 IN FO22 FORMAT

13-14 ARE FO04
 DATA

15 IS AIRBORNE
 Xcurr prof.
 in FO04 Format



Science Applications International Corporation

8900186

A00935
A00936

June 23, 1989

Mr. Francis Mitchell
NOAA/NODC
3300 Whitehaven Street, NW
Washington, DC 20235

Dear Mitch:

Enclosed please find two (2) nine-track magnetic data tapes containing data collected during Year 3 of the Gulf of Mexico Physical Oceanography Program. This work was funded under Minerals Management Service (MMS) Contract Number 14-12-0001-29158, which was awarded to Science Applications International Corporation. The following items have been attached:

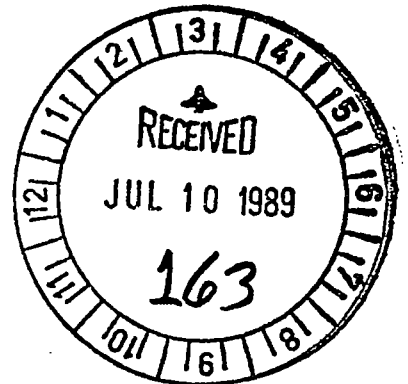
- (1) Two (2) data tapes:
 - 1 - 2400 foot tape containing current meter data in NODC Format 015,
 - 1 - 2400 foot tape containing CTD, XBT and AXBT data in NODC Format 022 and AXCP and Water Chemistry data in NODC Format 004.
- (2) Four (4) printed volumes detailing the information stored on each tape:
 - Volume I - Current Meter Data
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 - Volume III - Associated Cruise Data
 - Volume IV - AXBT Survey Data
- (3) Appropriate NODC documentation forms for each data type submitted.

If you should have any questions/comments regarding this submission, please feel free to contact me.

Sincerely,

Robert J. Wayland
Senior Meteorologist

Enclosures



ACCESSION
NUMBER

8900186

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

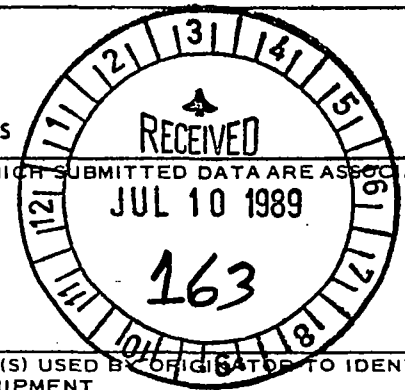
FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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 Science Applications International Corporation Maritime-Technology Group/Physical Oceanography Division 4900 Water's Edge Drive Suite 255 Raleigh NC 27606			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Gulf of Mexico Physical Oceanography Program (MMS Contract No. 14-13-0001-29158)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT ID's: AL8601 AL8604 AL8607 GUMYEAR3A0T AL8602 AL8605 PN8502 AL8603 AL8606 H28601	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
	SHIP, AIRCRAFT	USA USA	FROM: MO/PAY/YR TO: MO/PAY/YR 10/22/85 09/03/86
8. ARE DATA PROPRIETARY? <input checked="" 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.	
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 checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) DR. Evans Waddell (Program Manager) SAZC/Raleigh 4900 Water's Edge Drive Suite 255 Raleigh, NC 27606 (919) 251-0201			

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
Temperature	°C	Sippican T-7 XBT's	- NONE -	Data on tape SP#993 Files 1-10,
Temperature, Salinity and σ_t	°C, ‰	Neil Brown, Mark III CTD	- NONE -	Files 11-12
Temperature	°C	Sippican AXCP	- NONE -	File 15 * <u>NOTE</u> * This data is subject at best! We <u>do not</u> <u>recommend</u> its <u>use</u> .
Currents	cm/s	Sippican AXCP	- NONE -	File 15
<u>Water Chemistry</u>				} Files 13-14
Dissolved Oxygen	ml/l to hundredths	Bottle Data	- NONE -	
Nitrate	UG-Atoms/l to hundredths	Bottle Data	- None -	
Silicate	UG-Atoms/l to hundredths	Bottle Data	- None -	
Phosphate	UG-Atoms/l to hundredths	Bottle Data	- None -	

C. DATA FORMAT

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

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

Files 1-10: NODC Format Type 002
Files 11-12: NODC Format Type 002
Files 13-15: NODC Format Type 004 ⇒ with attached modifications: LREC = 80 BLKS = 3200

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File 1: AL8601 XBT data 2: PN8502 XBT data 3: YEAR 3 AXBT data 4: HZ8601 XBT data 5: AL8602 XBT data 6: AL8603 XBT data 7: AL8604 XBT data 8: AL8605 XBT data	File 9: AL8606 XBT data 10: AL8607 XBT data 11: AL8601 CTD data 12: PN8502 CTD data 13: AL8601 Chemistry data 14: PN8502 Chemistry data 15: Year 3 AXCP data
--	--

3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Robert J. Wayland (919) 851-8356
 ADDRESS Science Applications International Corporation / 4900 Water's Edge Drive, Suite 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> IBM
7. PARITY (RS-232) <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) SAIC/Raleigh Tape ID. No.: <div style="font-size: 2em; text-align: center;">SP0993</div>
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES (1-12) 3600 (13-15) 3200 13. LENGTH OF BYTES IN BITS <div style="display: flex; justify-content: space-between;"> 120 80 </div>

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Types 004 and 032 ** SEE ATTACHED **

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

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4.1.10 High-resolution CTD/STD Data (File 022)

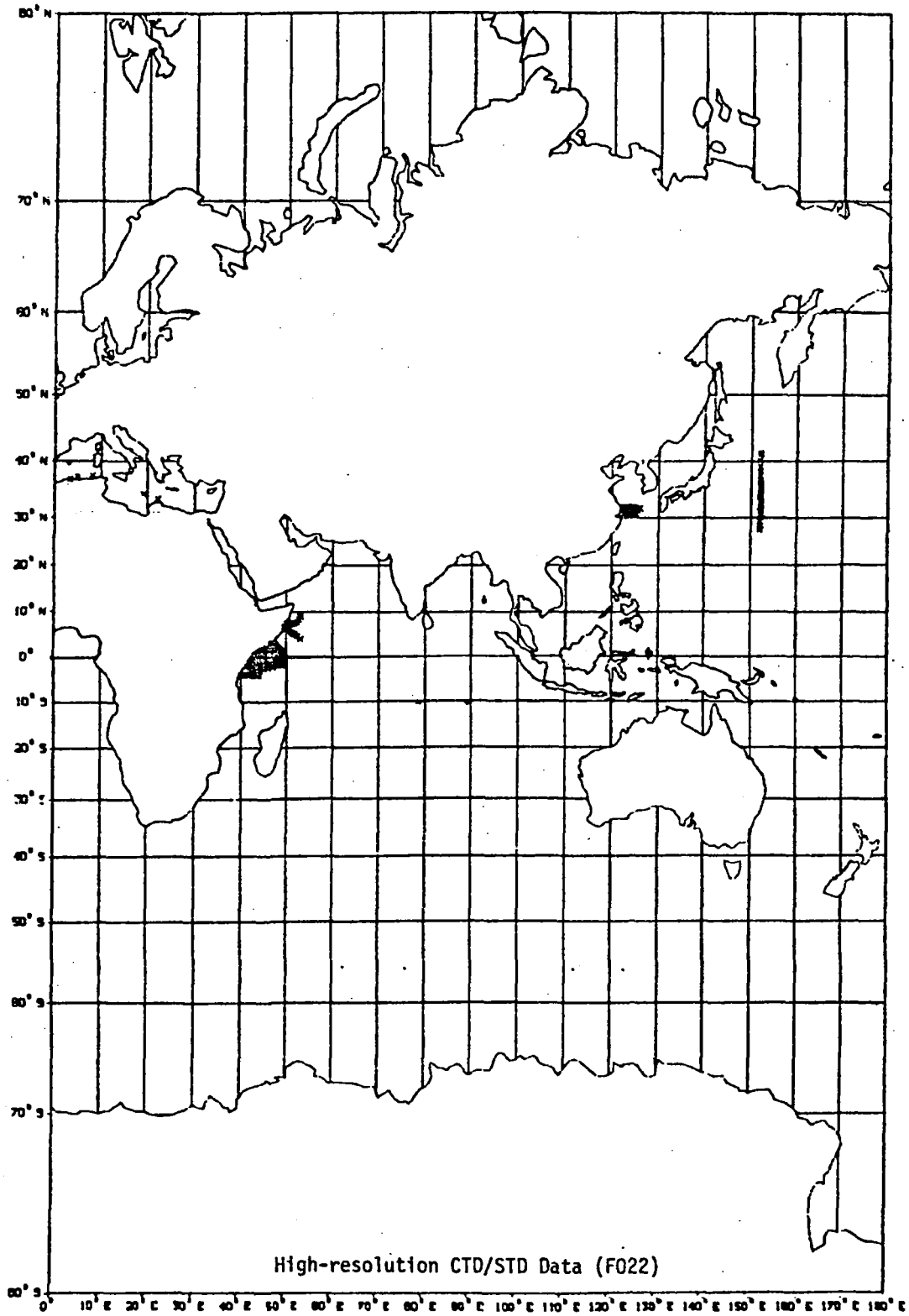
Geographic coverage - Worldwide oceans

Time period - 1969 - present

Description -

This file contains high-resolution data collected using CTD (conductivity-temperature-depth) and STD (salinity-temperature-depth) instruments. As they are lowered and raised in the oceans, these electronic devices provide nearly continuous profiles of temperature, salinity, and other parameters. Data values may be subject to averaging or filtering or obtained by interpolation and may be reported at depth intervals as fine as 1 m. Cruise and instrument information, position, date, time, and sampling interval are reported for each station. Environmental data at the time of the cast (meteorological and sea surface conditions) may also be reported. The data record comprises values of temperature, salinity or conductivity, density (computed sigma-t), and possibly dissolved oxygen or transmissivity at specified depth or pressure levels. Data may be reported at either equally or unequally spaced depth or pressure intervals. A text record is available for comments. Note: During processing of these data, a "compressed" or low-resolution version of each cast is created by picking off data values at selected depth levels. The compressed CTD/STD records are stored in a separate data base (see Section 4.1.2) in the same format as oceanographic station (Nansen cast) data. The compressed data can be used like Nansen cast data in studies of gross ocean structure and features where the finer depth resolution of the original data records is not required.

(For data inventory plot, see following page)



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File structure -

Eight 120-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, (4) Detail Record 2, (5) Detail Record 3, (6) Detail Record 4, (7) Detail Record 5, and (8) Detail Record 6.

File format -

High-resolution CTD/STD Data (F022)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
CAST NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2,3 AND 4	11
TEXT	100-CHARACTER FIELD - USED FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXXXX - USED FOR SORTING TEXT RECORDS	116
MASTER RECORD	ALWAYS '2'	10
CAST NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
CRUISE IDENTIFICATION	TEN-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR	31
NUMBER OF SCANS	XXXXX - USED TO INDICATE NUMBER OF SCANS PER STATION (FIVE/RECORD)	41
DATE (GMT)	YYMMDD	46
TIME (GMT)	XXXX (HOURS AND MINUTES)	52
SAMPLE INTERVAL INDICATOR	ONE-DIGIT CODE - USE CODE 0216	56
SAMPLE INTERVAL	XXX - WHEN INDICATOR CODE=1 (EQUAL SPACED DEPTHS) - (METERS TO TENTHS)	57
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	60
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	68
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	69
WIND DIRECTION	XX - TWO-DIGIT CODE - WMO 885/887 - DIRECTION FROM - USE CODE 0110	73
WIND SPEED	XX (WHOLE KNOTS)	75
WEATHER	ONE-DIGIT CODE - WMO 4501 - USE CODE 0108	77
SEA STATE	ONE-DIGIT CODE - WMO 3700 - USE CODE 0109	78
VISIBILITY	ONE-DIGIT CODE - WMO 4300 - USE CODE 0157	79
CLOUD TYPE	ONE-DIGIT CODE - WMO 0500 - USE CODE 0053	80
CLOUD AMOUNT	ONE-DIGIT CODE - WMO 2700 - USE CODE 0105	81
INSTRUMENT INFORMATION	TWENTY-CHARACTER FIELD FOR TYPE OF INSTRUMENT, SERIAL NUMBER, ETC	82
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY THE ORIGINATOR	102

DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST	XXXX (WHOLE METERS)	113
BLANKS		117
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 'O080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	108
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 2	ALWAYS '4'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	21
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	41
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	61
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	101
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 3	ALWAYS '5'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91

SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	108
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	118
DETAIL RECORD 4	ALWAYS '6'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	98
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	106
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOB0	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 5	ALWAYS '7'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

DETAIL RECORD G	ALWAYS '8'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PPT TO THOUSANDTHS	26
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	31
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	35
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PPT TO THOUSANDTHS	46
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	51
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	55
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PPT TO THOUSANDTHS	66
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	71
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	75
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PPT TO THOUSANDTHS	86
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	91
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	95
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PPT TO THOUSANDTHS	106
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	111
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

ACCESSION NO. 8900186

FILETYPE C118

TRACK NO. 074752

PROJECT IDENTIFICATION 0125

STEP	DATE	INIT.	TAPE OR DISK	DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/10/89	FJM	A00936	NL	15			
DUPLICATE TAPE	7/18/89	✓	W13129	NL	15			
REFORMATTED TAPE	8/1/89	R.P.S.	W00093	***	1	VB	VB	67
REFORMATTED DISK								
FIRST MULCHEK								
FINAL MULCHEK								
MPD75 OR F022								
DATA SET FINALIZED								

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~

*** LABEL : DNODC * SAIAXBTOUT.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



Science Applications International Corporation

8900186

A00935
A00936

June 23, 1989

Mr. Francis Mitchell
NOAA/NODC
3300 Whitehaven Street, NW
Washington, DC 20235

Dear Mitch:

Enclosed please find two (2) nine-track magnetic data tapes containing data collected during Year 3 of the Gulf of Mexico Physical Oceanography Program. This work was funded under Minerals Management Service (MMS) Contract Number 14-12-0001-29158, which was awarded to Science Applications International Corporation. The following items have been attached:

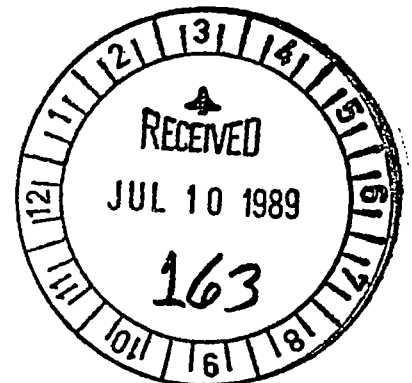
- (1) Two (2) data tapes:
 - 1 - 2400 foot tape containing current meter data in NODC Format 015,
 - 1 - 2400 foot tape containing CTD, XBT and AXBT data in NODC Format 022 and AXCP and Water Chemistry data in NODC Format 004.
- (2) Four (4) printed volumes detailing the information stored on each tape:
 - Volume I - Current Meter Data
 - Volume II - Hydrographic Cruise Data
 - Volume III - Associated Cruise Data
 - Volume IV - AXBT Survey Data
- (3) Appropriate NODC documentation forms for each data type submitted.

If you should have any questions/comments regarding this submission, please feel free to contact me.

Sincerely,

Robert J. Wayland
Senior Meteorologist

Enclosures



ACCESSION
NUMBER

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

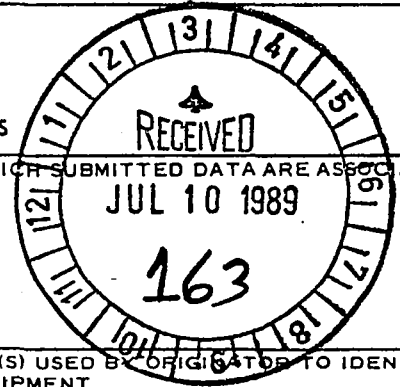
FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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
 Science Applications International Corporation
 Maritime Technology Group/Physical Oceanography Division
 4900 Water's Edge Drive
 Suite 255
 Raleigh NC 27606

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED
 Gulf of Mexico Physical Oceanography Program
 (MMS Contract No. 14-12-0001-29158)

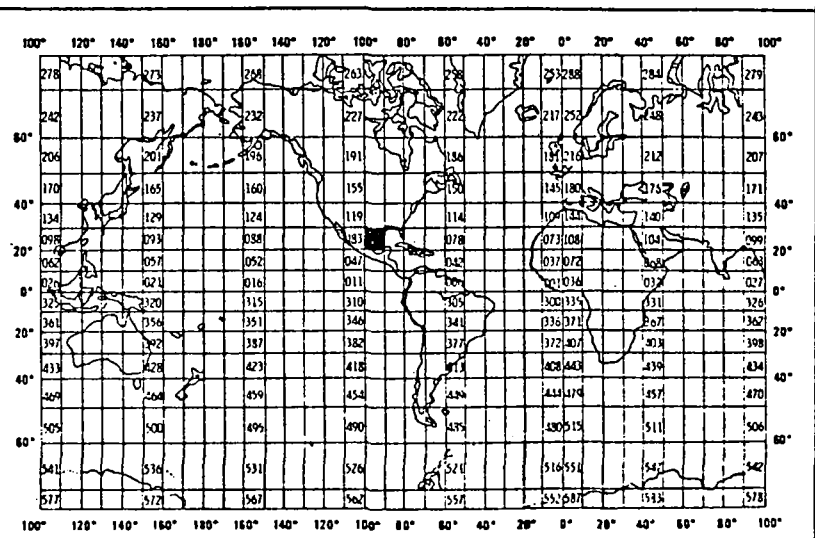
3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT
 ID's:
 ALB601 | ALB604 | ALB607 | GOMYEAR3A0T
 ALB602 | ALB605 | PN8592
 ALB603 | ALB606 | H28601

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR
	SHIP, AIRCRAFT	USA	USA	10/22/85	09/03/86

8. ARE DATA PROPRIETARY?
 NO 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?)
 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)
 Dr. Evans Waddell (Program Manager)
 SAEC/Raleigh
 4900 Water's Edge Drive
 Suite 255
 Raleigh, NC 27606
 (919) 851-2251

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
Temperature	°C	Sippican T-7 XBT's	- NONE -	Data on tape SP8993 Files 1-10,
Temperature, Salinity and σ _t	°C, ‰	Neil Brown, Mark III CTD	- NONE -	Files 11-12
Temperature	°C	Sippican AXCP	- NONE -	File 15 * <u>NOTE</u> * This data is subject at best! <u>We do not recommend its use.</u>
Currents	cm/s	Sippican AXCP	- NONE -	File 15
Water Chemistry				} Files 13-14
Dissolved Oxygen	ml/l to hundredths	Bottle Data	- NONE -	
Nitrate	UG-Atoms/l to hundredths	Bottle Data	- None -	
Silicate	UG-Atoms/l to hundredths	Bottle Data	- None -	
Phosphate	UG-Atoms/l to hundredths	Bottle Data	- None -	

C. DATA FORMAT

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

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

Files 1-10: NODC Format Type 022
Files 11-12: NODC Format Type 022
Files 13-15: NODC Format Type 024 ⇒ with attached modifications: LREC = 80 BLKS = 3200

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File 1: AL8601 XBT data 2: PN8502 XBT data 3: YEAR 3 AXBT data 4: HZ8601 XBT data 5: AL8602 XBT data 6: AL8603 XBT data 7: AL8604 XBT data 8: AL8605 XBT data	File 9: AL8606 XBT data 10: AL8607 XBT data 11: AL8601 CTD data 12: PN8502 CTD data 13: AL8601 Chemistry data 14: PN8502 Chemistry data 15: Year 3 AXCP data
--	--

3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	<input type="checkbox"/> LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Robert J. Wayland (919) 851-8356
 ADDRESS Science Applications International Corporation / 4900 Water's Edge Drive, Suite 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input checked="" type="checkbox"/> ASCII</td> <td><input type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> 3/4 INCH</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> 3/4 INCH	<input type="checkbox"/> _____		
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY										
<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC										
<input type="checkbox"/> _____											
<input type="checkbox"/> 3/4 INCH											
<input type="checkbox"/> _____											
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<p>10. END OF FILE MARK</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> IBM</td> </tr> </table>	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> IBM					
<input type="checkbox"/> SEVEN											
<input checked="" type="checkbox"/> NINE											
<input type="checkbox"/> _____											
<input type="checkbox"/> OCTAL 17											
<input checked="" type="checkbox"/> IBM											
<p>7. PARITY</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ODD</td> </tr> <tr> <td><input checked="" type="checkbox"/> EVEN</td> </tr> </table> <p>(RS-232)</p>	<input type="checkbox"/> ODD	<input checked="" type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="font-size: 1.2em; text-align: center;">3AEC/Raleigh Tape IO. No.:</p> <p style="font-size: 1.5em; text-align: center;">SP0993</p>								
<input type="checkbox"/> ODD											
<input checked="" type="checkbox"/> EVEN											
<p>8. DENSITY</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <table style="width: 100%;"> <tr> <td>(1-12) 3600</td> <td>(13-15) 3200</td> </tr> </table>	(1-12) 3600	(13-15) 3200
<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI										
<input type="checkbox"/> 556 BPI											
<input type="checkbox"/> 800 BPI											
<input type="checkbox"/> _____											
(1-12) 3600	(13-15) 3200										
<p>13. LENGTH OF BYTES IN BITS</p> <table style="width: 100%;"> <tr> <td style="text-align: center;">120</td> <td style="text-align: center;">80</td> </tr> </table>	120	80									
120	80										

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Types 004 and 022 **** SEE ATTACHED ****

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

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4.1.10 High-resolution CTD/STD Data (File 022)

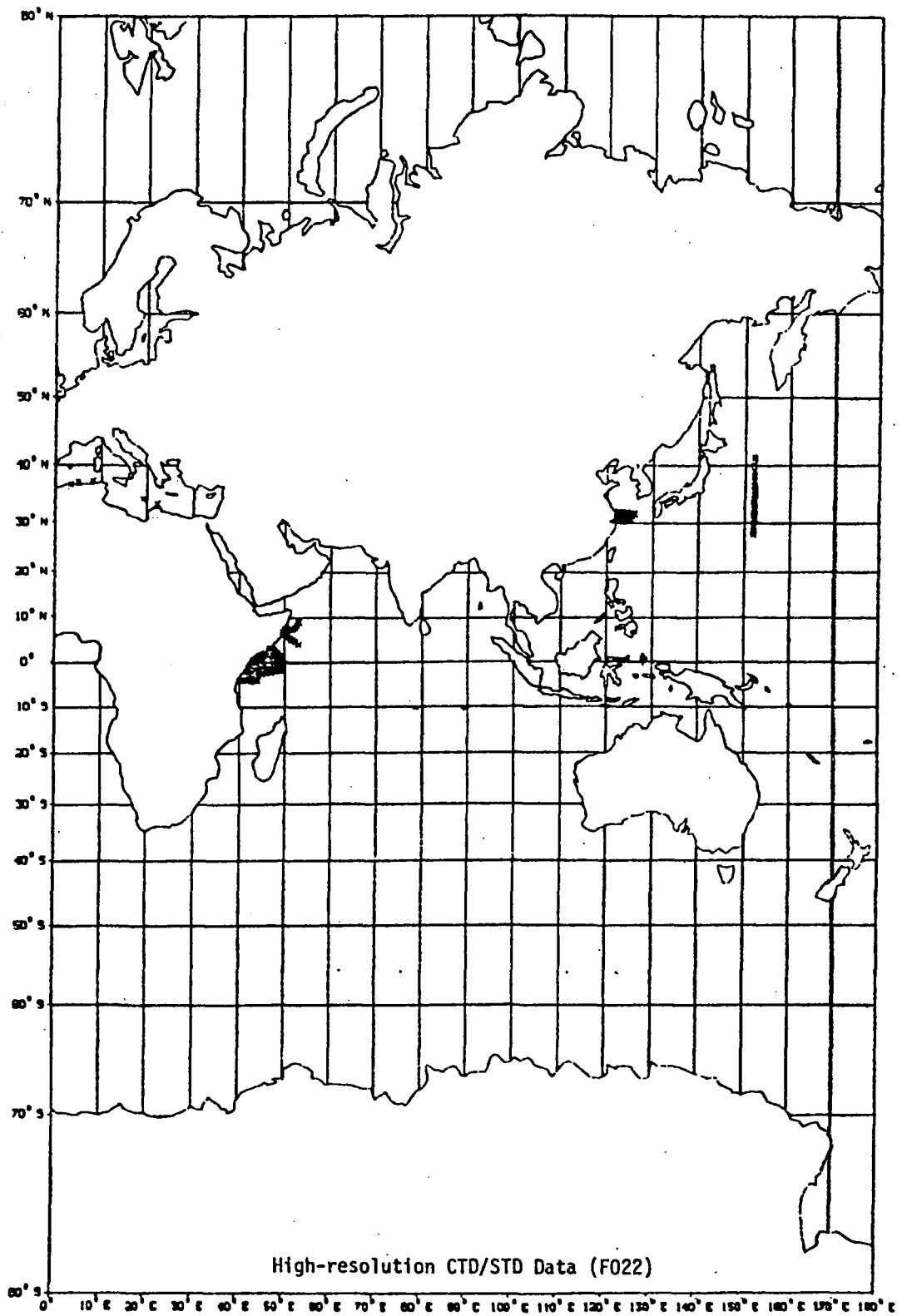
Geographic coverage - Worldwide oceans

Time period - 1969 - present

Description -

This file contains high-resolution data collected using CTD (conductivity-temperature-depth) and STD (salinity-temperature-depth) instruments. As they are lowered and raised in the oceans, these electronic devices provide nearly continuous profiles of temperature, salinity, and other parameters. Data values may be subject to averaging or filtering or obtained by interpolation and may be reported at depth intervals as fine as 1 m. Cruise and instrument information, position, date, time, and sampling interval are reported for each station. Environmental data at the time of the cast (meteorological and sea surface conditions) may also be reported. The data record comprises values of temperature, salinity or conductivity, density (computed sigma-t), and possibly dissolved oxygen or transmissivity at specified depth or pressure levels. Data may be reported at either equally or unequally spaced depth or pressure intervals. A text record is available for comments. Note: During processing of these data, a "compressed" or low-resolution version of each cast is created by picking off data values at selected depth levels. The compressed CTD/STD records are stored in a separate data base (see Section 4.1.2) in the same format as oceanographic station (Nansen cast) data. The compressed data can be used like Nansen cast data in studies of gross ocean structure and features where the finer depth resolution of the original data records is not required.

(For data inventory plot, see following page)



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File structure -

Eight 120-character records: (1) Text Record, (2) Master Record, (3) Detail Record 1, (4) Detail Record 2, (5) Detail Record 3, (6) Detail Record 4, (7) Detail Record 5, and (8) Detail Record 6.

File format -

High-resolution CTD/STD Data (F022)

PARAMETER	DESCRIPTION	SC
TEXT RECORD	ALWAYS '1'	10
CAST NUMBER	FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2,3 AND 4	11
TEXT	100-CHARACTER FIELD - USED FOR COMMENTS OR PERTINENT INFORMATION	16
SEQUENCE NUMBER	XXXXX - USED FOR SORTING TEXT RECORDS	116
MASTER RECORD	ALWAYS '2'	10
CAST NUMBER	SEE RECORD '1'	11
LATITUDE	DDMMXX PLUS HEMISPHERE 'N' OR 'S' - MINUTES TO HUNDREDTHS	16
LONGITUDE	DDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
CRUISE IDENTIFICATION	TEN-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR	31
NUMBER OF SCANS	XXXXX - USED TO INDICATE NUMBER OF SCANS PER STATION (FIVE/RECORD)	41
DATE (GMT)	YYMMDD	46
TIME (GMT)	XXXX (HOURS AND MINUTES)	52
SAMPLE INTERVAL INDICATOR	ONE-DIGIT CODE - USE CODE 0216	56
SAMPLE INTERVAL	XXX - WHEN INDICATOR CODE=1 (EQUAL SPACED DEPTHS) - (METERS TO TENTHS)	57
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	60
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	69
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	69
WIND DIRECTION	XX - TWO-DIGIT CODE - WMO 885/887 - DIRECTION FROM - USE CODE 0110	73
WIND SPEED	XX (WHOLE KNOTS)	75
WEATHER	ONE-DIGIT CODE - WMO 4501 - USE CODE 0108	77
SEA STATE	ONE-DIGIT CODE - WMO 3700 - USE CODE 0109	78
VISIBILITY	ONE-DIGIT CODE - WMO 4300 - USE CODE 0157	79
CLOUD TYPE	ONE-DIGIT CODE - WMO 0500 - USE CODE 0053	80
CLOUD AMOUNT	ONE-DIGIT CODE - WMO 2700 - USE CODE 0105	81
INSTRUMENT INFORMATION	TWENTY-CHARACTER FIELD FOR TYPE OF INSTRUMENT, SERIAL NUMBER, ETC	82
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY THE ORIGINATOR	102

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DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST	XXXX (WHOLE METERS)	113
BLANKS		117
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	35
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	46
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 'O080	55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	68
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	75
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	108
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE O080	115
SEQUENCE NUMBRER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 2	ALWAYS '4'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	21
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	41
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	61
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	96
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	101
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 3	ALWAYS '5'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	75
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91

SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	95
DEPTH	XXXXX (METERS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	108
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	118
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	118
DETAIL RECORD 4	ALWAYS '6'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	26
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	48
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	66
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	78
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	86
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	98
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	106
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OORO	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

DETAIL RECORD 5	ALWAYS '7'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	41
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	55
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	61
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS		71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	75
PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	81
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
BLANKS		91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	101
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

DETAIL RECORD G	ALWAYS '8'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	21
SALINITY	XXXXX - PPT TO THOUSANDTHS	26
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	31
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	35
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	41
SALINITY	XXXXX - PPT TO THOUSANDTHS	46
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	51
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	55
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	61
SALINITY	XXXXX - PPT TO THOUSANDTHS	66
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	71
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	75
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	76
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	81
SALINITY	XXXXX - PPT TO THOUSANDTHS	86
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	91
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	95
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	101
SALINITY	XXXXX - PPT TO THOUSANDTHS	106
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	111
SCAN CONDITION CODE	ONE-CHARACTER CODE - USE O080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

File structure -

One variable-length record (maximum 2,540 characters). Note: Although they are maintained in separate files, mechanical bathythermograph (MBT) data and expendable bathythermograph (XBT) data (see Section 4.1.4) are stored in a common format.

File format -

Universal Bathythermograph Data

PARAMETER	DESCRIPTION	SC
FILE ID	TWO-CHARACTER CODE - ('X' =XBT AT INFLECTION POINT DEPTHS; 'M' =MBT AT 5-METER DEPTHS; 'XS'=XBT AT ORIGINATOR DEPTHS; 'MS'=MBT AT ORIGINATOR DEPTHS)	1
AREA	ONE-DIGIT CODE - WMO QUADRANT (=1, 3, 5, or 7)	3
LATITUDE	DDMMX (DEGREES, MINUTES TO TENTHS, PLUS HEMISPHERE 'N' OR 'S')	4
LATITUDE PRECISION	ONE-DIGIT CODE - USE CODE 0606	10
LONGITUDE	DDMMX (DEGREES, MINUTES TO TENTHS, PLUS HEMISPHERE 'E' OR 'W')	11
✓ LONGITUDE PRECISION	ONE-DIGIT CODE - USE CODE 0606	18
✓ DATE (GMT)	YYMMDD - YEAR, MONTH, DAY	19
TIME (GMT)	XXXX (HOURS AND MINUTES)	25
TIME PRECISION	ONE-DIGIT CODE - USE CODE 0607	29
BLANK	ONE BLANK	30
COUNTRY	TWO-CHARACTER NODC COUNTRY CODE - USE CODE 0600	31
BLANK	ONE BLANK	33
INSTITUTION	TWO-CHARACTER NODC INSTITUTION CODE - USE CODE 0599	34
✓ CRUISE	XXXXX - NODC CRUISE NUMBER	36
✓ CONSEC	XXXX - NODC CONSECUTIVE STATION NUMBER	41
DATA ORIGIN - COUNTRY	TWO-CHARACTER NODC COUNTRY CODE - USE CODE 0600	45
INSTITUTION	TWO-CHARACTER NODC INSTITUTION CODE - USE CODE 0599	47
PLATFORM	TWO-CHARACTER NODC PLATFORM CODE - USE CODE 0598	49
OSV FLAG	ONE-CHARACTER CODE - INDICATES OCEAN STATION VESSEL (OCEAN WEATHER STATION) - USE CODE 0610	51
DNP FLAG	ONE-CHARACTER CODE - INDICATES DECLARED NATIONAL PROGRAM STATUS - USE CODE 0609	52
BLANK	TWO BLANKS	53
CRUISE	XXXXXXXX - ORIGINATOR'S CRUISE NUMBER	55
CONSEC	XXXX - ORIGINATOR'S CONSECUTIVE STATION NUMBER	63

XBT CALIBRATION DEPTH	XXX - DEPTH AT CALIBRATION TICK; UNITS (METERS, FEET, FATHOMS) DEPEND ON PROBE TYPE	67
XBT CALIBRATION TEMPERATURE	XXX - TEMPERATURE AT CALIBRATION TICK; (DEG C TO TENTHS OR DEG F TO TENTHS, DEPENDING ON PROBE TYPE)	70
INSTRUMENT TYPE	ONE-DIGIT CODE (1=XBT, 2=HXBT, 3= SXBT, 4=AXBT, BLANK=MBT)	73
MBT GRID OR XBT PROBE TYPE	ONE-CHARACTER CODE - USE CODE 0616 OR CODE 0611	74
XBT BOTTOM FLAG	ONE-CHARACTER CODE - INDICATES WHETHER XBT PROBE HIT BOTTOM (B=YES, BLANK=NO)	75
XBT DIGITIZATION METHOD	TWO-DIGIT CODE - USE CODE 0612	76
XBT DIGITIZATION INTERVAL	TWO-DIGIT CODE - USE CODE 0613	78
XBT DATA TREATMENT AND STORAGE	TWO-DIGIT CODE - USE CODE 0614	80
BOTTOM DEPTH	XXXX (WHOLE METERS)	82
MBT DEPTH CORRECTION	XXX (WHOLE METERS; NEGATIVE VALUE PRECEDED BY MINUS SIGN)	86
MBT TEMPERATURE CORRECTION	XXX (DEG C TO TENTHS; NEGATIVE VALUE PRECEDED BY MINUS SIGN)	89
MBT REFERENCE TEMPERATURE TYPE	ONE-DIGIT CODE - USE CODE 0615	92
MBT REFERENCE TEMPERATURE COUNT	XXX (DEG C TO TENTHS)	93
BLANK DEPTH*	XXXX - NUMBER OF DEPTH-TEMPERATURE PAIRS (MAXIMUM=305)	96
TEMPERATURE*	ONE BLANK	100
	XXXX (WHOLE METERS)	101
	XXXX (DEG C TO HUNDREDTHS)	105

*DEPTH-TEMPERATURE PAIRS (8 CHARACTERS) REPEATED AS MANY TIMES AS INDICATED BY 'COUNT' FIELD UP TO MAXIMUM OF 305 PAIRS (2440 CHARACTERS); MAXIMUM RECORD LENGTH THEREFORE EQUALS 2440 + 100 (HEADER INFORMATION)=2540 CHARACTERS.

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900186	074752	C118	0126	312H	32HP	GOMYEAR3	11/11/85	11/13/85	67	67
8900186	074753	C116	0125	312H	57AL	AL8601	01/23/86	02/05/86	124	124
8900186	074754	C116	0125	312H	32PE	PN8502	10/22/85	10/27/85	23	23
8900186	074755	C116	0125	312H	320Q	H28601	08/17/86	08/22/86	93	93
8900186	074756	C116	0125	312H	57AL	AL8602	02/13/86	02/14/86	25	25
8900186	074757	C116	0125	312H	57AL	AL8603	04/26/86	05/14/86	111	111
8900186	074758	C116	0125	312H	57AL	AL8606	07/15/86	07/17/86	33	33
8900186	074759	C116	0125	312H	57AL	AL8607	09/01/86	09/03/86	16	16

ACCESSION NO. 8900186

FILETYPE ~~████~~

CI16

TRACK NO. _____

074753-759

PROJECT IDENTIFICATION 0125

MMS/GOM Phys. OC.

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/10/89	FJM	A00939 NL	15		**	
DUPLICATE TAPE	7/18/89	FJM	W13129 NL	15			
REFORMATTED TAPE	8/1/89	R.P.S.	W06128 ***	1	VB	VB	425
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~

** FILES 1-12 = BLK=3600 REC=120
 ↓
 13-15 = BLK=3200 REC=80

~~***~~ * 1-10 ARE
 XBT & AXBT IN
 F022 FORMAT

11-12 ARE CTD
 IN F022 FORMAT

13-14 ARE F004
 DATA

15 15 AIRBORNE
 XCURR PROF.
 in F004 FORMAT

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

** LABEL = DNODC*SAIXBTOUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8900186	F015	TV3464	0125	312H	317F	1985/06/11	P-2	187334
8900186	F015	TV3465	0125	312H	317F	1985/06/11	P-3	187335
8900186	F015	TV3466	0125	312H	317F	1985/06/11	P-4	187336
8900186	F015	TV3467	0125	312H	317F	1985/06/15	Q-1	187337
8900186	F015	TV3468	0125	312H	317F	1985/06/15	Q-2	187338
8900186	F015	TV3469	0125	312H	317F	1985/10/20	Q-2	187339
8900186	F015	TV3470	0125	312H	317F	1985/06/15	Q-3	187340
8900186	F015	TV3471	0125	312H	317F	1985/06/15	Q-4	187341
8900186	F015	TV3472	0125	312H	317F	1985/06/15	R-1	187342
8900186	F015	TV3473	0125	312H	317F	1985/06/15	R-2	187343
8900186	F015	TV3474	0125	312H	317F	1985/06/15	R-3	187344
8900186	F015	TV3475	0125	312H	317F	1985/06/15	R-4	187345
8900186	F015	TV3476	0125	312H	317F	1985/06/15	R-5	187346
8900186	F015	TV3477	0125	312H	317F	1985/06/12	S-1	187347
8900186	F015	TV3478	0125	312H	317F	1985/06/12	S-2	187348
8900186	F015	TV3479	0125	312H	317F	1985/11/02	S-2	187349
8900186	F015	TV3480	0125	312H	317F	1985/06/12	S-3	187350
8900186	F015	TV3481	0125	312H	317F	1985/06/13	T-1	187351
8900186	F015	TV3482	0125	312H	317F	1985/06/13	T-2	187352
8900186	F015	TV3483	0125	312H	317F	1985/06/13	T-3	187353
8900186	L129	L00404	0125	312H	317F	1985/06/12	S-2	187354
8900186	L129	L00405	0125	312H	317F	1985/06/13	T-1	187355
8900186	L142	L00407	0125	312H	3191	1985/11/12	GOMYR3	187356
8900186	C022	319870	0125	312H	31AL	1986/01/23	TV2993	187328
8900186	C116	074755	0125	312H	320Q	1986/08/17	H28601	187323
8900186	C118	074752	0126	312H	32HP	1985/11/11	GOMYEAR3	187320
8900186	C116	074754	0125	312H	32PE	1985/10/22	PN8502	187322
8900186	C100	323072	0125	312H	32PE	1985/10/22	PN-8502	187329
8900186	C022	329604	0125	312H	32PE	1985/10/22	TV2994	187330
8900186	F022	TV2994	0125	312H	32PE	1985/10/22	PN-8502	187333
8900186	C116	074753	0125	312H	57AL	1986/01/23	AL8601	187321
8900186	C116	074756	0125	312H	57AL	1986/02/13	AL8602	187324
8900186	C116	074757	0125	312H	57AL	1986/04/26	AL8603	187325
8900186	C116	074758	0125	312H	57AL	1986/07/15	AL8606	187326
8900186	C116	074759	0125	312H	57AL	1986/09/01	AL8607	187327
8900186	C100	570043	0125	5700	57AL	1986/01/24	AL-8601	187331
8900186	F022	TV2993	0125	312H	57AL	1986/01/23	AL-8601	187332

(37 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8900186	F015	TV3464	317F	1	812	85/06/11	85/06/11
8900186	F015	TV3465	317F	12	15694	85/06/11	86/05/01
8900186	F015	TV3466	317F	12	15694	85/06/11	86/05/01
8900186	F015	TV3467	317F	5	5238	85/06/15	85/10/01
8900186	F015	TV3468	317F	5	5237	85/06/15	85/10/01
8900186	F015	TV3469	317F	8	9287	85/10/20	86/05/01
8900186	F015	TV3470	317F	5	6053	85/06/15	85/10/01
8900186	F015	TV3471	317F	12	15515	85/06/15	86/05/01
8900186	F015	TV3472	317F	5	6165	85/06/15	85/10/01
8900186	F015	TV3473	317F	5	6168	85/06/15	85/10/01
8900186	F015	TV3474	317F	5	6169	85/06/15	85/10/01
8900186	F015	TV3475	317F	5	6167	85/06/15	85/10/01
8900186	F015	TV3476	317F	5	6168	85/06/15	85/10/01
8900186	F015	TV3477	317F	5	6159	85/06/12	85/10/01
8900186	F015	TV3478	317F	3	3808	85/06/12	85/08/01
8900186	F015	TV3479	317F	7	8764	85/11/02	86/05/01
8900186	F015	TV3480	317F	12	15657	85/06/12	86/05/01
8900186	F015	TV3481	317F	4	4690	85/06/13	85/09/01
8900186	F015	TV3482	317F	12	15543	85/06/13	86/05/01
8900186	F015	TV3483	317F	12	15543	85/06/13	86/05/01
8900186	L129	L00404	317F	1	6156	85/06/12	85/10/18
8900186	L129	L00405	317F	1	5953	85/06/13	85/10/14
8900186	L142	L00407	3191	6	2960	85/11/12	85/11/20
8900186	C022	319870	31AL	176	92	86/01/23	86/02/04
8900186	C116	074755	320Q	93	93	86/08/17	86/08/22
8900186	C118	074752	32HP	67	61	85/11/11	85/11/13
8900186	C116	074754	32PE	23	23	85/10/22	85/10/27
8900186	C100	323072	32PE	18	16	85/10/22	85/10/25
8900186	C022	329604	32PE	39	38	85/10/22	85/10/25
8900186	F022	TV2994	32PE	39	5190	85/10/22	85/10/25
8900186	C116	074753	57AL	124	124	86/01/23	86/02/05
8900186	C116	074756	57AL	25	25	86/02/13	86/02/14
8900186	C116	074757	57AL	111	111	86/04/26	86/05/14
8900186	C116	074758	57AL	33	33	86/07/15	86/07/17
8900186	C116	074759	57AL	16	16	86/09/01	86/09/03
8900186	C100	570043	57AL	45	45	86/01/24	86/02/03
8900186	F022	TV2993	57AL	176	12302	86/01/23	86/02/04

(37 rows affected)