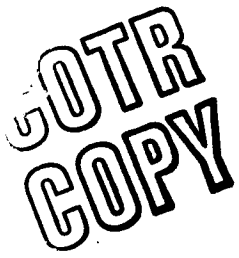
1990 - 3

Gulf of Mexico
Physical Oceanography Study

Record of Data Submittals to NODC
January 1983 - November 1989
Years 1 through 5



MMS

U.S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region

Gulf of Mexico
Physical Oceanography Study

Record of Data Submittals to NODC
January 1983 - November 1989
Years 1 through 5

MMS

U.S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region

THE MINERALS MANAGEMENT SERVICE GULF OF MEXICO PHYSICAL OCEANOGRAPHY PROGRAM, CONTRACTS NO. 14-12-0001-29158 AND 12-14-0001-30289

From January 1983 until October 1988 the Gulf of Mexico Region of the U.S. Minerals Management Service (MMS) sponsored a program of physical oceanographic measurements in the Gulf, titled as above. The contractor for this work, Science Applications International Corporation (SAIC), was required to archive all of the resulting datasets in the National Oceanographic Data Center (NODC), under NODC Project Code 0125. To aid the prospective user of these data, this compilation of Data Documentation Forms and correspondence relating to the data archiving process has been assembled. Inquiries concerning these datasets should be directed to Mr. Francis Mitchell of NODC, at telephone (202) 673-5643 [FTS 673-5643]. Inquiries concerning the technical reports prepared by SAIC should be directed to Dr. Murray Brown of MMS, at telephone (504) 736-2901 [FTS 680-9901].

(October 25, 1989)

Science Applications International Corporation

December 13, 1985

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

Dear Dr. Mitchell:

Enclosed are two 2400 feet magnetic tapes containing current meter data for years one and two (1/83 to 1/85) of the Gulf of Mexico Physical Oceanographic Study (NODC project code 0125). SP0731 contains 32 files with all data for moorings A, C, and D. SP0733 contains 21 files with all data for moorings E, F, and G. Both tapes are in NODC file type 015 format.

Do not hesitate to call should you have any questions.

Sincerely yours,

Tony Martin
Data Analyst

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

RECEIVED

AUG 25 1989

Minerals Management Service
Leasing & Environment

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
4900 Waters Edge Drive, Suite 255
Raleigh, North Carolina 27606

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Gulf of Mexico Physical Oceanographic Study

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

Mooring IDs
MØE1, MØE2, MØE3, MØF1, MØF2, MØG1, MØG2, MØG3, MØG4, MØG5, MØG6

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
	Buoy			1/83	1/85

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?)

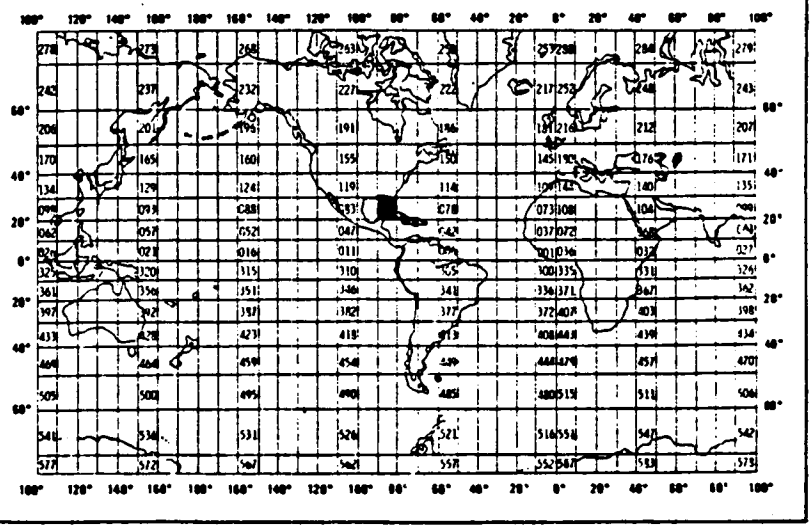
☐ NO ☐ YES ☐ PART *(SPECIFY BELOW)*

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

Bob Wayland
1(919) 857-8356

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

GENERAL AREA



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 5510)	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)

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
Currents	cm/s	General Oceanics Model 6011 Mark I and Mark II current meters		
Temperature	°C	General Oceanics Model 6011 Mark I and Mark II current meters		
Pressure	dB	Modified Geodyne VACM		

NOAA FORM 24-13

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

21 files, each file on a separate tape file

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Tony Martin, 1(919) 851-8356
ADDRESS Science Applications International Corp, 4900 Waters Edge Dr #25
Raleigh, North Carolina 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION (*INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER*)

SPØ 733

12. PHYSICAL BLOCK LENGTH IN BYTES
3600

13. LENGTH OF BYTES IN BITS
60

NOAA FORM 24-13

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
General Oceanics MarkI & MarkII			General Oceanics		✓				
Modified Neodyne VACM			Florida State University		✓				

OAA FORM 24-13

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
4900 Waters Edge Drive, Suite 255
Raleigh, ~~NC 27606~~ North Carolina 27606

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Gulf of Mexico Physical/
Oceanographic Study

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

Mooring ID's
MØA1, MØA2, MØA3, MØA4, MØA5,
MØC1, MØC2, MØC3, MØ01, MOA1,
MØ02, MOA2, MOA3

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
	Buoy			1/83	1/85

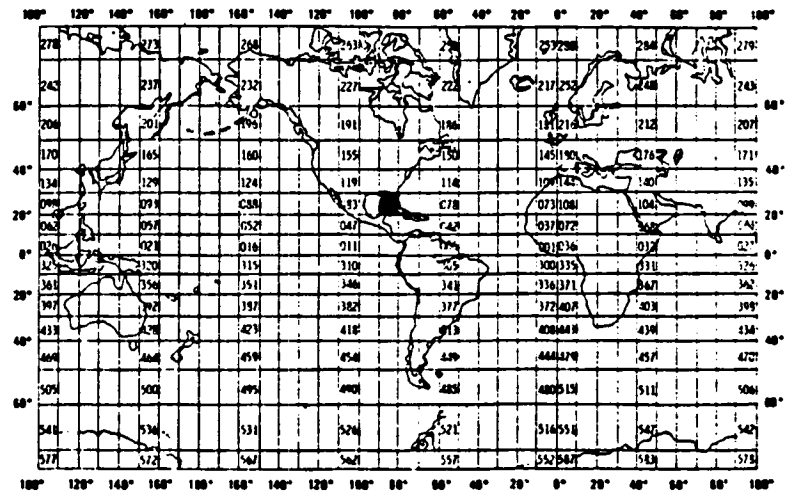
8. ARE DATA PROPRIETARY?

☒ 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)*

Bob Wayland
1(919) 851-8356

B. SCIENTIFIC CONTENT

Include enough information conceming 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 5510)	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
Currents	cm/s	General Oceanics Model 6011 Mark I and Mark II current meters		N/A
Temperature	°C	General Oceanics Model 6011 Mark I and Mark III current meters		
Pressure	dB	Modified Geodyne (VACM)		

NOAA FORM 24-13

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

32 Files, each on a separate tape file

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Tony Martin, 1(919) 851-8356
ADDRESS Science Applications International Corp, Weber's Edge Dr. #255, Raleigh, North Carolina 27605

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION (*INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER*)

SPØ 731

12. PHYSICAL BLOCK LENGTH IN BYTES
3600

13. LENGTH OF BYTES IN BITS
60

NOAA FORM 24-13

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
General Oceanics Mark I, Mark II			General Oceanics		✓				
Modified Geodyne VACM			Florida State University		✓				

NOAA FORM 24-13

		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

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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, Years 1 & 2 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: CRUISE ID'S:

B83Ø4	B84Ø5	ORII136	ROMEIII55Ø146	SCB4Ø5
B83Ø6	B84Ø6	ORII138	ROMEIII55Ø147	YUCA184Ø1
B83Ø9	GYREB4G4II	ORII140	MSØ1	GMØ1
B84Ø8	GYREB4G5	PPRIMEIII	SCB3Ø1	SCB31Ø
B84Ø1	JBØ1	REØ1	SCB4Ø4	CFB4Ø5

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	08/18/82	06/06/84

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?)

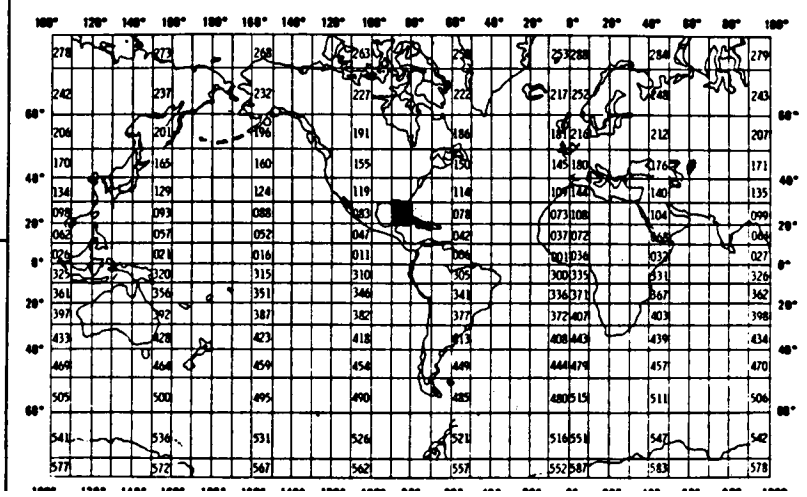
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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
Temperature	°C	Sippican T-7 XBT	— NONE —	All data interpolated to a 1 m depth increment. Used on <u>all</u> cruises.
Temperature Salinity	°C ppt	Neil Brown Mark IIIB CTD System	— NONE —	All data interpolated to a 1 m depth increment. <u>NOTE:</u> This system only used on Cruises: GM01, SCB310 and CF8405.

DAA FORM 24-13

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 Ø22
"High-Resolution CTD/STD Data"
April 1985 Version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

32 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) 851-8356
ADDRESS Science Applications International Corporation/4900 Water's Edge Drive, Suite 35
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☒ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

SAIC/Raleigh Tape ID No:

SP12Ø5

12. PHYSICAL BLOCK LENGTH IN BYTES
3600

13. LENGTH OF BYTES IN BITS
120

NOAA FORM 24-10

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type Ø22 ** SEE ATTACHED **

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

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

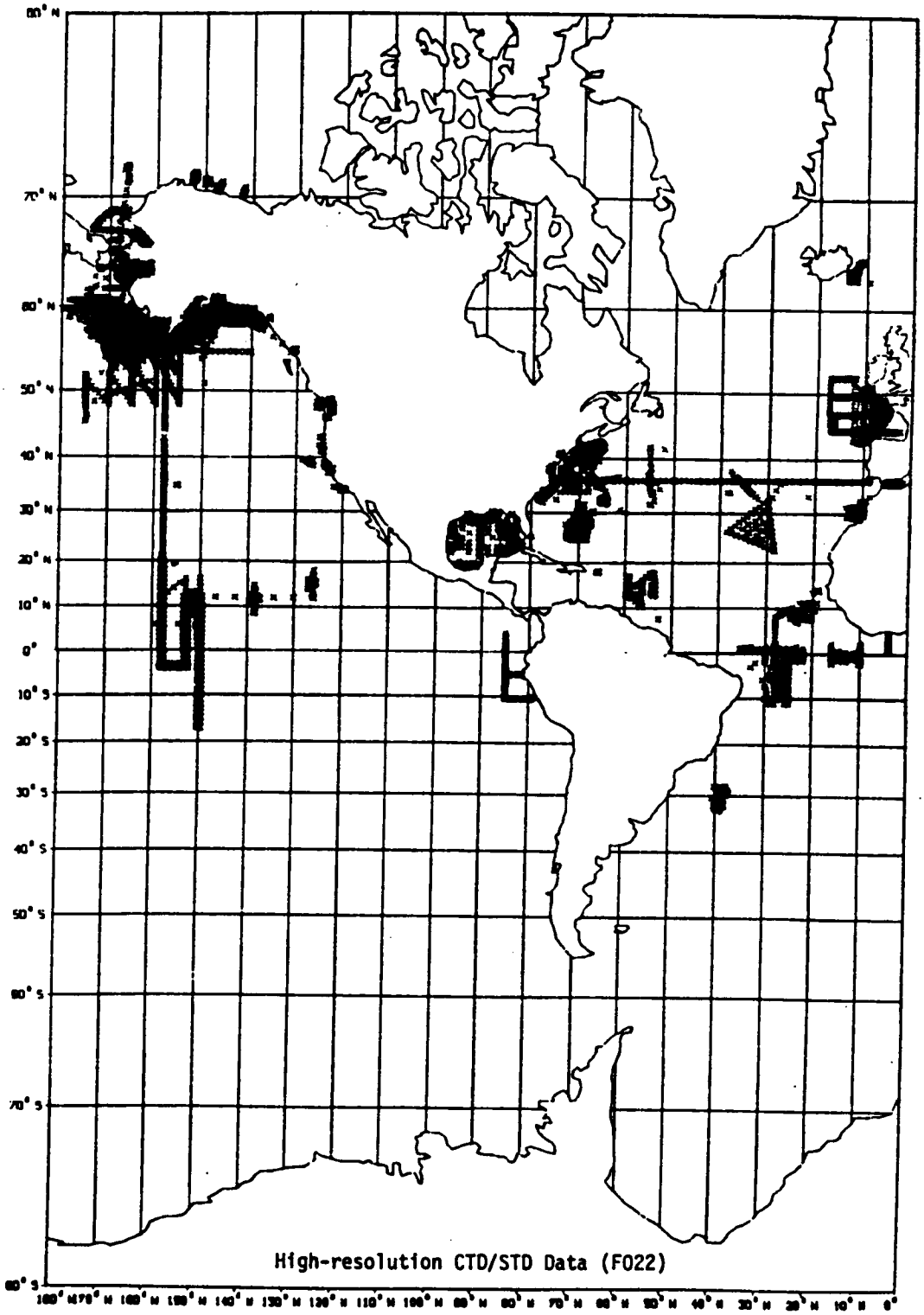
Geographic coverage - Worldwide oceans

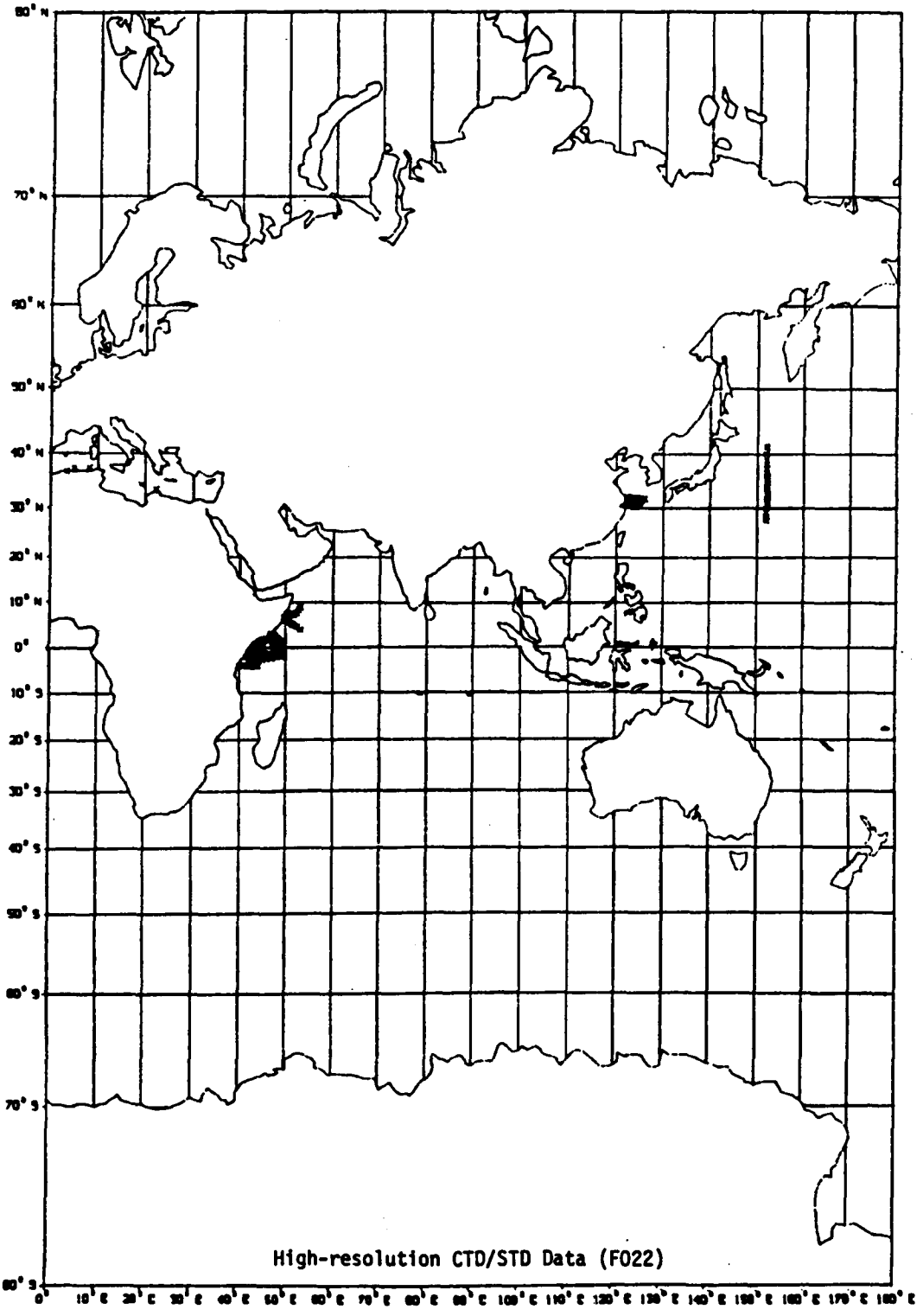
Time period - 1969 - present

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)


High-resolution CTD/STD Data (F022)



High-resolution CTD/STD Data (F022)

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	65
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 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
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 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
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 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
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 0080	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	106
SIGMA-T	XXXX - TO HUNDREDTHS	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 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 0080	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)	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 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 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
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 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
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 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
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 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
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 0080	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 0080	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 0080	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 0080	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 0080	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 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
ippican/BathySystems XBT System	3/83		Sippican					✓	FOR CRUISES: GM01; SCB310; CF8
eil Brown Mark III-B CTD System	5/84		N.W. Regional Labs Calibration Center		✓				
ippican/BathySystems XBT System	UNKNOWN		UNKNOWN						

AA FORM 24-13

		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,
Years 1 & 2 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: CRUISE ID'S:

GM01
SC8310
CF8405
} Nutrient Stations Only

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	USA	USA	03/07/83	05/18/84

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?)

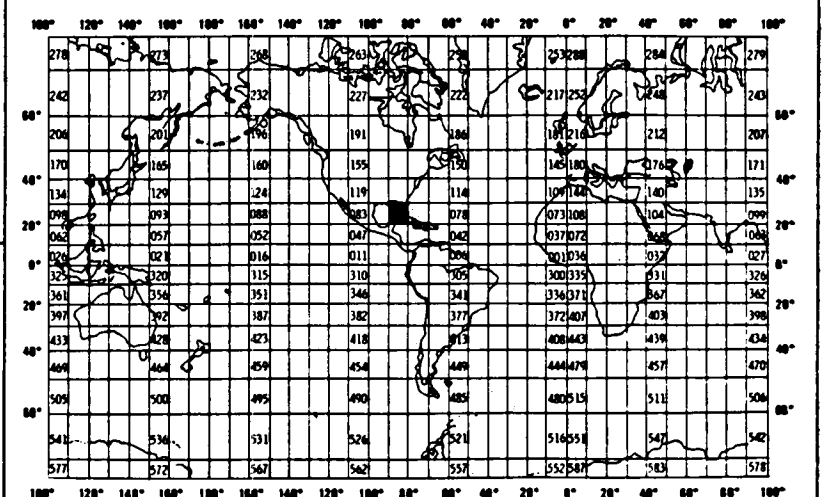
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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
Temperature	°C	Neil Brown MARK IIIB CTD	- NONE -	All data interpolated to a 1m depth increment
Salinity	ppt ppt	Neil Brown MARK IIIB CTD Niskin Bottles	- NONE - Used to calibrate IIIB CTD data	All data interpolated to a 1m depth — NONE —
Oxygen (dissolved)	ml/l	Niskin Bottles	— NONE —	— NONE —
Nitrate	µg-atoms/l	Niskin Bottles	— NONE -	— NONE —
Silicate	µg-atoms/l	Niskin Bottles	— NONE -	— NONE —
Phosphate	inorganic µg-atoms/l	Niskin Bottles	— NONE —	— NONE —
Total Chlorophyll	mg/m³	Niskin Bottles	— NONE —	No Chlorophyll data collected on Cruise CF84Ø5.

)AA FORM 24-13

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 ØØ4
"Water Physics and Chemistry"
April 1985 Version

NOTE: Data Record 1, "Sample Depth XXXX (meters to tenths)". This field is written to WHOLE METERS, to allow sample depths ≥ 1000 m to be submitted. This format change was approved via phonecon with Francis Mitchell (NODC) on 8/15/89.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3 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) 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 ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☒ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

SAIC/Raleigh Tape ID No:

SP121Ø

12. PHYSICAL BLOCK LENGTH IN BYTES
4ØØØ

13. LENGTH OF BYTES IN BITS
1ØØ

NOAA FORM 24-12

RECORD FORMAT DESCRIPTION

RECORD NAME NODC Format Type 004 (WITH MODIFICATIONS) ** SEE ATTACHED **

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

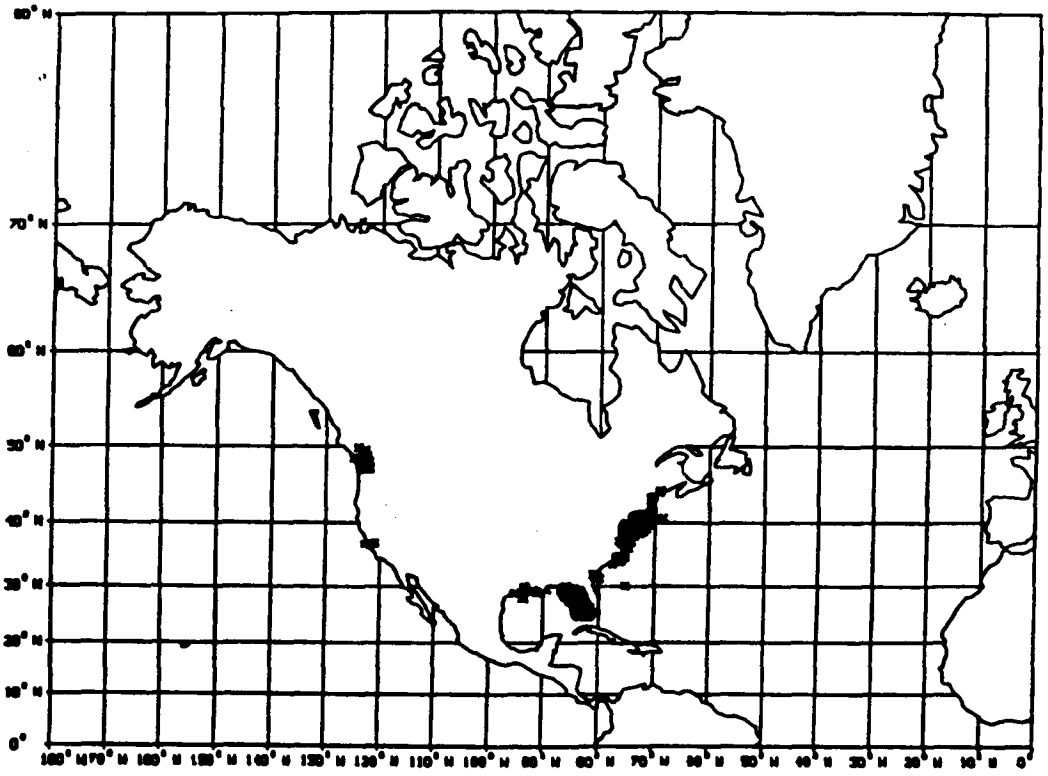
4.1.6 Water Physics and Chemistry (File 004)

Geographic coverage - U.S. East and Gulf Coasts, California Coast, Puget Sound

Time period - 1951 - 1982

Description -

This file contains data from measurements and analyses of physical and chemical characteristics of the water column. Among chemical parameters that may be recorded are salinity, pH, and concentration of oxygen, ammonia, nitrate, phosphate, chlorophyll, and suspended solids. Physical parameters that may be recorded include temperature, density (sigma-t), transmissivity, and current velocity (east-west and north-south components). Cruise and station information, including environmental conditions of the study site at the time of observation, is also included.



File structure -

Five 100-character records: (1) File Header Record, (2) First Station Header Record, (3) Second Station Header Record, (4) Data Record 1, and (5) Data Record 2.

File format -

Water Physics and Chemistry (F004)

PARAMETER	DESCRIPTION	SC
FILE HEADER RECORD	ALWAYS '1'	10
VESSEL	11-CHARACTER VESSEL NAME	11
CRUISE	SIX-CHARACTER ORIGINATOR'S CRUISE ID	22
CRUISE DATES	MM/DD/YY-MM/DD/YY - BEGIN-END DATES	28
SENIOR SCIENTIST	19-CHARACTER FIELD FOR SCIENTIST NAME	45
INVESTIGATOR	17-CHARACTER FIELD FOR RESPONSIBLE INSTITUTION	64
FIRST STATION HEADER RECORD	ALWAYS '2'	10
SEQUENCE	XXX - THREE-CHARACTER SEQUENCE NUMBER	11
STATION	FIVE-CHARACTER STATION IDENTIFIER	14
LATITUDE	DDMMSS PLUS HEMISPHERE 'N' OR 'S'	19
LONGITUDE	DDDMMSS PLUS HEMISPHERE 'E' OR 'W'	26
TIME (GMT)	XXX - HOURS TO TENTHS	34
DATE	MM/DD/YY	37
BOTTOM	XXXXX - WATER DEPTH (METERS TO TENTHS)	45
NAVIGATION	TWO-CHARACTER CODE - USE CODE 0085	50
METHOD	ONE-CHARACTER CODE - USE CODE 0300	52
CABIN TEMPERATURE	XXX - DEG C TO TENTHS	53
BOX TEMPERATURE	XX - DEG C (WHOLE DEGREES)	56
SALINITY FLAG	ONE-CHARACTER CODE - USE CODE 0502	58
STATION IDENTIFIER	10-CHARACTER ORIGINATOR STATION IDENTIFIER	59
MAXIMUM DEPTH	XXXXX-DEPTH OF DEEPEST OBSERVATION (METERS)	69
BOTTOM TYPE	ONE-CHARACTER CODE - USE CODE 0102	74
BLANKS		75
SECOND STATION HEADER RECORD	ALWAYS '3'	10
SEQUENCE	SEE RECORD '2'	11
STATION	SEE RECORD '2'	14
BAROMETER	XXX - MILLIBARS TO TENTHS	19
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	22
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO TENTHS	26
WIND DIRECTION	TWO-CHARACTER CODE - USE CODE 0110	30
WIND SPEED	XX - KNOTS	32
SEA DIRECTION	TWO-CHARACTER CODE - USE CODE 0110	34
SEA HEIGHT	ONE-CHARACTER CODE - USE CODE 0104	36
SWELL DIRECTION	TWO-CHARACTER CODE - USE CODE 0110	37
SWELL HEIGHT	ONE-CHARACTER CODE - USE CODE 0104	39

WEATHER	ONE-CHARACTER CODE - USE CODE 0100	40
CLOUD TYPE	ONE-CHARACTER CODE - USE CODE 0053	41
CLOUD COVER	ONE-CHARACTER CODE - USE CODE 0105	42
VISIBILITY	ONE-CHARACTER CODE - USE CODE 0157	43
TRANSPARENCY	XXXX - SECCHI DISC DEPTH (METERS TO TENTHS)	44
TURBIDITY	ONE-CHARACTER CODE - USE CODE 0094	48
WATER COLOR	TWO-CHARACTER CODE - USE CODE 0051	49
BLANKS		51

DATA RECORD 1	ALWAYS '4'	10
SEQUENCE	SEE RECORD '2'	11
STATION	SEE RECORD '2'	14
DEPTH	XXXX - SAMPLE DEPTH (METERS)	19
TEMPERATURE	XXXXX - WATER TEMPERATURE (DEG C TO THOUSANDTHS)	23
SALINITY	XXXXX - PARTS PER THOUSAND TO THOUSANDTHS	28
SIGMA-T	XXXX - TO HUNDREDTHS	33
TRANSMISSIVITY	XXX - PERCENT TO TENTHS	37
PH	XXX - TO HUNDREDTHS	40
EH	XXXX - TO HUNDREDTHS	43
OXYGEN	XXXX - DISSOLVED OXYGEN (ML/L TO HUNDREDTHS)	47
AMMONIA	XXX - UG-ATOMS/L TO TENTHS	51
NITRITE	XXX - UG-ATOMS/L TO HUNDREDTHS	54
NITRATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	57
SILICATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	61
PHOSPHATE	XXX - INORGANIC UG-ATOMS/L TO HUNDREDTHS	65
SOLIDS	XXXX - SUSPENDED SOLIDS (MG/L TO HUNDREDTHS	68
TURBIDITY	XXXX - MG/L TO HUNDREDTHS	72
CHLOROPHYLL	XXXXX - MG/CUBIC METER TO HUNDREDTHS	76
LIGHT PENETRATION	XXX - PERCENT OF SURFACE LIGHT AT DEPTH (TO TENTHS)	81
PRODUCTIVITY	XXX - PRODUCTION RATE OF CARBON (G/M3/HR)	84
TOTAL NITROGEN	XXX - (UG-AT/L)	87
TOTAL PHOSPHATE	XXXX - PHOSPHATE FROM TOTAL SAMPLE, INCLUDING SEDIMENT (UG-AT/L) TO HUNDREDTHS	90
TOTAL FILTER PASSING PHOSPHATE	XXXX - (UG-AT/L) TO HUNDREDTHS	94
TITRATION ALKALINITY	XXX - (MEQ/L) TO HUNDREDTHS THE NUMBER OF MILLIEQUIVALENTS OF HYDROGEN IONS NEUTRALIZED BY ONE LITER OF SAMPLE WATER	98

DATA RECORD 2	ALWAYS '5'	10
SEQUENCE	SEE RECORD '2'	11
STATION	SEE RECORD '2'	14
DEPTH	XXXX - SEE RECORD '4'	19
TEMPERATURE	XXXXX - SEE RECORD '4'	23
SALINITY	XXXXX - SEE RECORD '4'	28
SIGMA-T	XXXX - SEE RECORD '4'	33
EAST-WEST CURRENT COMPONENT (U)	XXXXX - CM/SEC TO TENTHS	37
NORTH-SOUTH CURRENT COMPONENT (V)	XXXXX - CM/SEC TO TENTHS	42
TRANSMISSIVITY	XXX - PERCENT TO TENTHS	47

PH	XXX - TO HUNDREDTHS	50
OXYGEN	XXXX - SEE RECORD '4'	53
AMMONIA	XXX - UG-ATOMS/L TO TENTHS	57
NITRITE	XXX - UG-ATOMS/L TO HUNDREDTHS	60
NITRATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	63
SILICATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	68
PHOSPHATE	XXX - SEE RECORD '4'	72
CHLOROPHYLL	XXXXX - SEE RECORD '4'	75
BLANK		80

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
Neil Brown Mark IIIB CTD System	5/84		N.W. Regional Labs Calibration Center		✓				
Niskin Bottles	5/84		SKIDAWAY INSTITUTE OF OCEANOGRAPHY			✓			

NOAA FORM 24-13

Science Applications International Corporation

August 17, 1989

Mr. Francis Mitchell
NOAA/NODC
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Francis:

Enclosed please find three (3) nine-track magnetic data tapes containing data collected during Year 4 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) Three (3) data tapes:
2 - 2400 foot tapes containing current meter data in NODC Format 015,
1 - 2400 foot tape containing XBT data in NODC Format 022.

(2) Three (3) printed volumes (Gray covers) detailing the information stored on each tape:

Volume I - Current Meter Data (Part 1)
Volume II - Current Meter Data (Part 2)
Volume III - SOOP 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,

Bob

Robert J. Wayland
Senior Meteorologist

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

	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 North Carolina 27606

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Gulf of Mexico Physical Oceanography Program, Year 4 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: MOORING ID'S:

MØA1	MØC1	MDA1	MØE1	MØF1
MØA2	MØC2	MDA2	MØE2	MØF2
MØA3	MØC3	MDA3	MØE3	
MØA4				
MØA5				

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
	MOORING	USA	USA	01/24/85	02/01/86

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?)

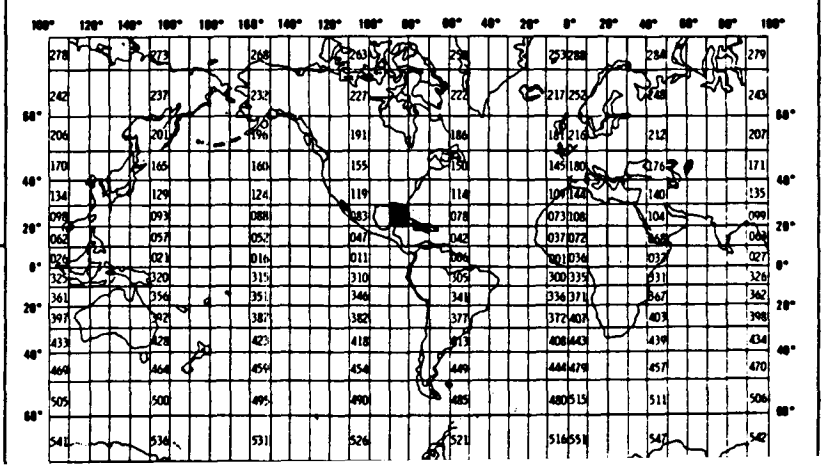
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255

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
currents	cm/s	General Oceanics, Inc. Model 6011 MK I & MK II Current Meters	— NONE —	— NONE —
temperature	°C			Submittal contains raw, non-filtered data sets
pressure	dB	Florida State University (FSU) Model Current Meters		

DEPLOYMENT PERIODS:

1) 1-23-85 to 5-6-85
2) 5-6-85 to 8-1-85
3) 8-1-85 to 2-1-86

ID	INSTRUMENT TYPE 1	2	3
MØA1	MK II	MK II	MK I
MØA2	MK I	MK I	MK I
MØA3	MK I	MK I	MK I
MØA4	MK I	MK I	MK II
MØA5	MK II	MK II	MK II
MØC1	MK I	MK I	MK I
MØC2	MK I	MK I	MK II
MØC3	FSU	FSU	MK II
MDA1	MK I	MK I	MK I
MDA2	MK I	MK I	MK I
MDA3	FSU	FSU	MK II
MØE1	MK I	MK I	MK I
MØE2	MK I	MK I	MK I
MØE3	FSU	FSU	MK I
MØF1	MK I	MK I	MK I
MØF2	MK I	MK I	MK I

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 015
"Current Meter Data (Components)"
April 1985 Version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

46 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) 851-8356
ADDRESS Science Applications International Corporation / 4900 Water's Edge Drive, Ste. 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☒ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

SP1206

SAIC/Raleigh Tape Id Number

12. PHYSICAL BLOCK LENGTH IN BYTES
3600

13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type 015 ** SEE ATTACHED **

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

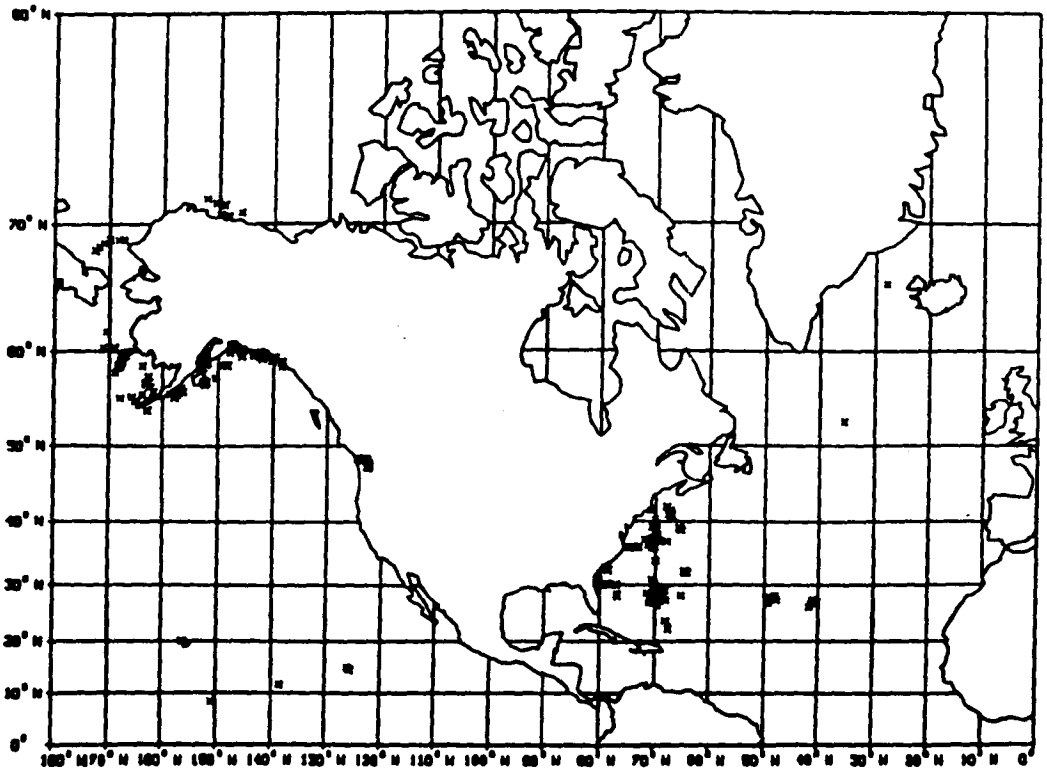
4.1.8 Current Meter Data (Components) (File 015)

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.



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	DDDMMXX 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	XXX - USED FOR INDICATING NUMBER OF TIMES METER HAS BEEN USED	41
(NODC USE)	TWO CHARACTERS FOR NODC INTERNAL USE	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

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	XXXX - 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 CALIBRATED (√)
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	
GENERAL OCEANICS, INC. MODEL 6011 MK I	1/85		GENERAL OCEANICS, INC.		✓				
GENERAL OCEANICS, INC. MODEL 6011 MK II	1/85		GENERAL OCEANICS, INC.		✓				
FLORIDA STATE UNIV. (FSU)	1/85		FLORIDA STATE UNIVERSITY		✓				

NOAA FORM 24-13

	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-R26
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, Year 4 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: MOORING ID'S:

MØG2, MØG3, MØG4, MØG5, MØG6

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
	MOORING	USA	USA	01/24/85	02/01/86

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?)

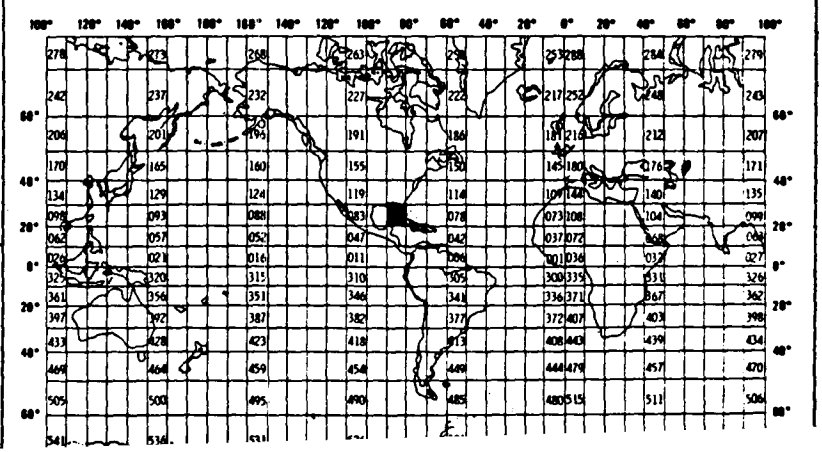
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Dr.
Suite 255

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

GENERAL AREA



B. SCIENTIFIC CONTENT

IE 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
rents	cm/s	General Oceanics, Inc. Model 6011 MK I Current Meters	— NONE —	— NONE — Submittal contains raw, non-filtered data sets.
perature	°C			
isure	dB			

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

15 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) 851-8356
ADDRESS Science Applications International Corporation / 4900 Waters Edge Drive, Suite 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☒ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

SAIC/Raleigh Tape ID Number:

SP1207

12. PHYSICAL BLOCK LENGTH IN BYTES
3600

13. LENGTH OF BYTES IN BITS

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type 015 ** SEE ATTACHED **

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

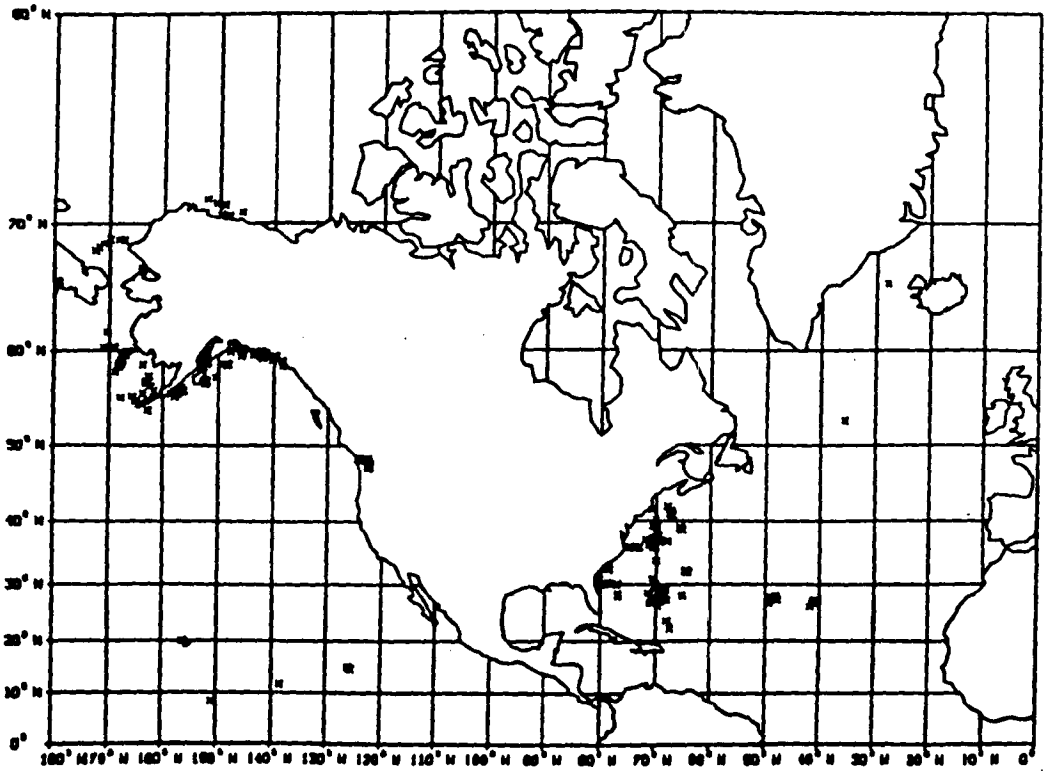
4.1.8 Current Meter Data (Components) (File 015)

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.



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	DDDMMXX 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	XXX - USED FOR INDICATING NUMBER OF TIMES METER HAS BEEN USED	41
(NODC USE)	TWO CHARACTERS FOR NODC INTERNAL USE	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

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	XXXX - 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	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
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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
GENERAL OCEANICS, INC. MODEL 6011 MK I	1/85		GENERAL OCEANICS, INC.		✓				

NOAA FORM 24-13

	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, Year 4 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: CRUISE ID'S:

CL85Ø1	SC85Ø3	SC8519
ER86Ø1	SC8512	SC86Ø8
NC85Ø1	SC8513	SC86Ø1

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	USA	USA	02/26/85	05/10/86

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?)

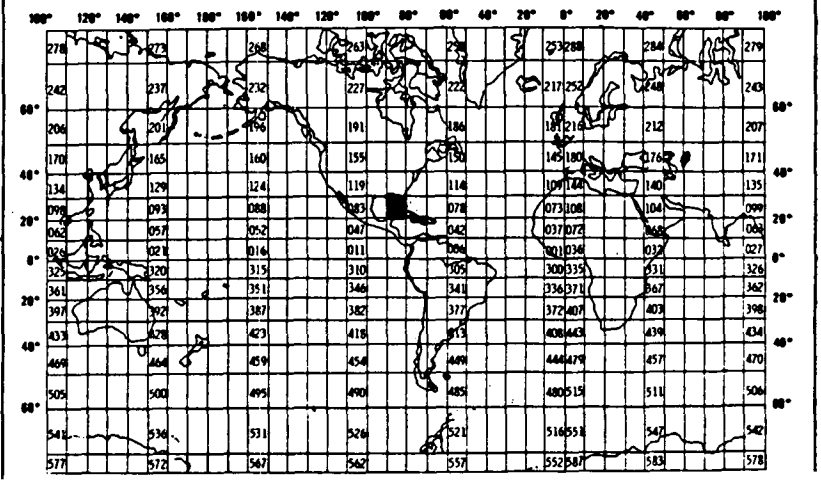
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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
Temperature	°C	Sippican T-7 XBT	— NONE —	All data interpolated to a 1 m depth increment.

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 Ø22
"High Resolution CTD/STD Data"
April 1985 Version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

9 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) 851-8356
ADDRESS Science Applications International Cooperation / 4900 Waters Edge Drive, Suite 255
Raleigh, NC 27606

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☐ ODD ☒ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____

10. END OF FILE MARK ☐ OCTAL 17 ☒ IBM

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

SAIC/Raleigh Tape ID No:
SP12Ø4

12. PHYSICAL BLOCK LENGTH IN BYTES
36ØØ

13. LENGTH OF BYTES IN BITS
12Ø

NOAA FORM 24-12

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type Ø22 ** SEE ATTACHED **

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

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

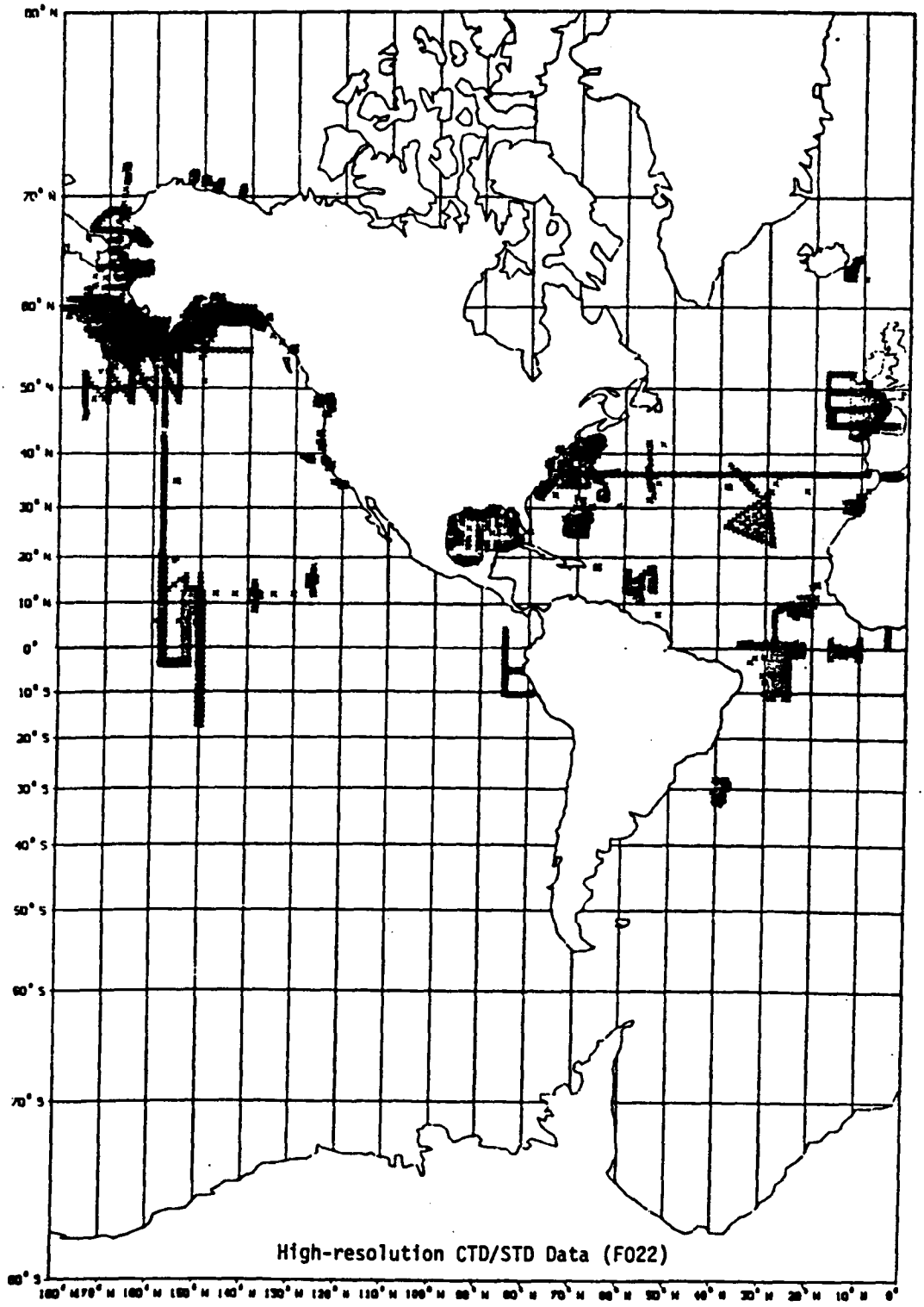
Geographic coverage - Worldwide oceans

Time period - 1969 - present

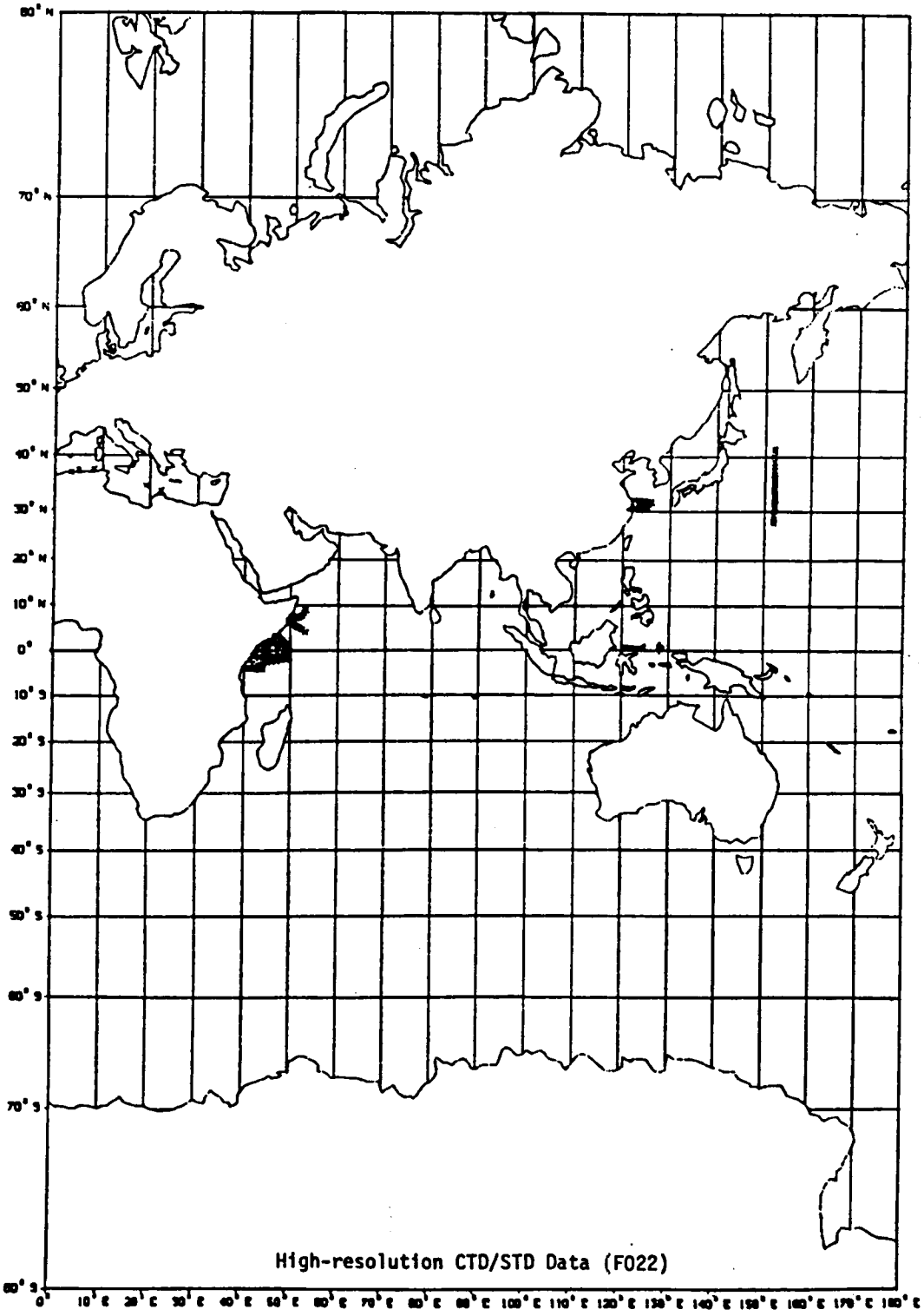
Description -

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)



High-resolution CTD/STD Data (F022)



High-resolution CTD/STD Data (F022)

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	65
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 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
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 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
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 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
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 0080	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	106
SIGMA-T	XXXX - TO HUNDREDTHS	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 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 0080	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)	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 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 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
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 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
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 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
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 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
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 0080	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 0080	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 0080	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 0080	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 0080	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 0080	115
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
Sippican/BathySystems XBT System	UNKNOWN		UNKNOWN				✓		

NOAA FORM 24-13

Gulf of Mexico
Physical Oceanography Program
Program Year 4 - Eastern Gulf

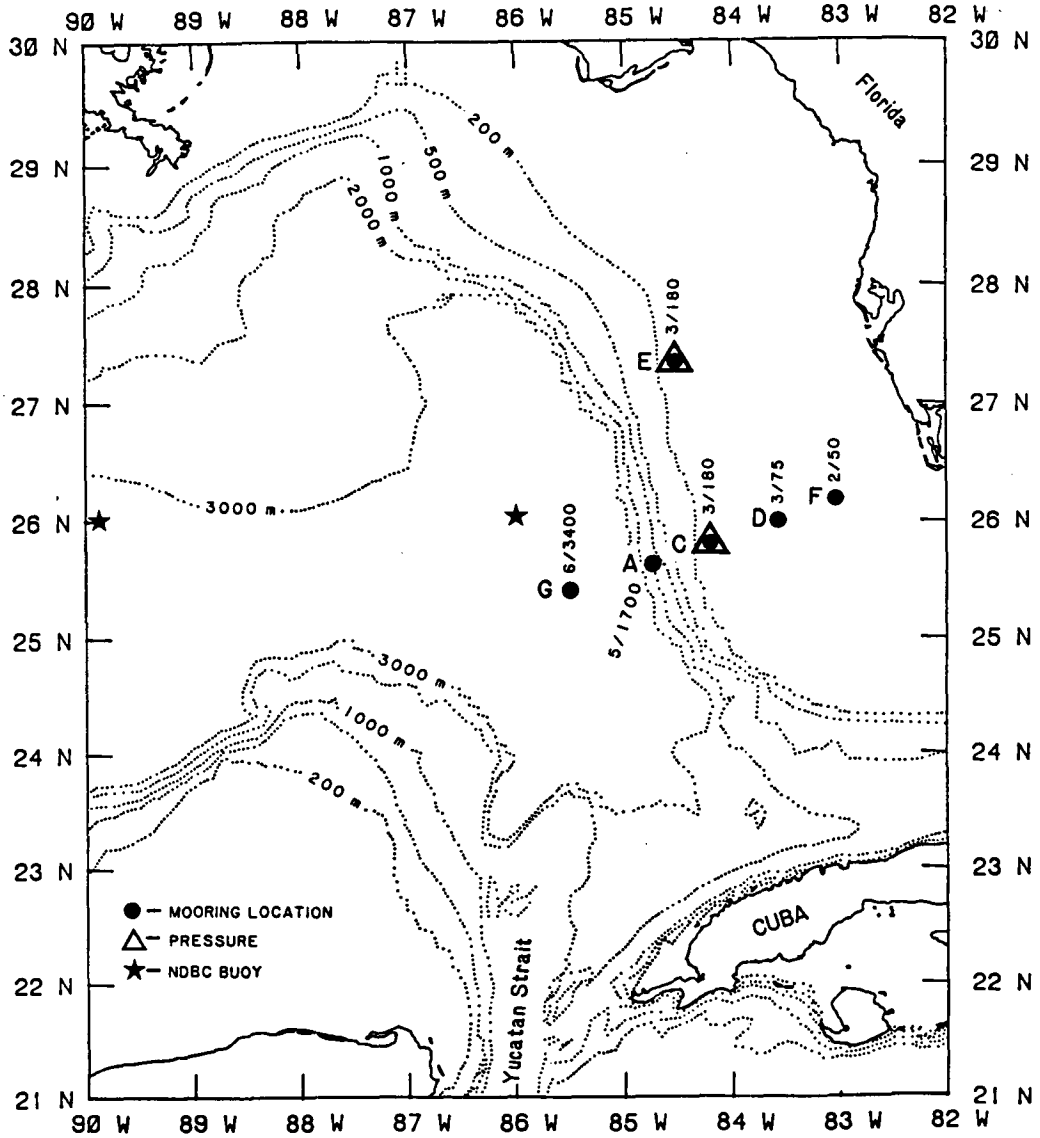
Volume I: Current Meter Observations (Part 1)

MMS Contract No. 14-12-0001-29158

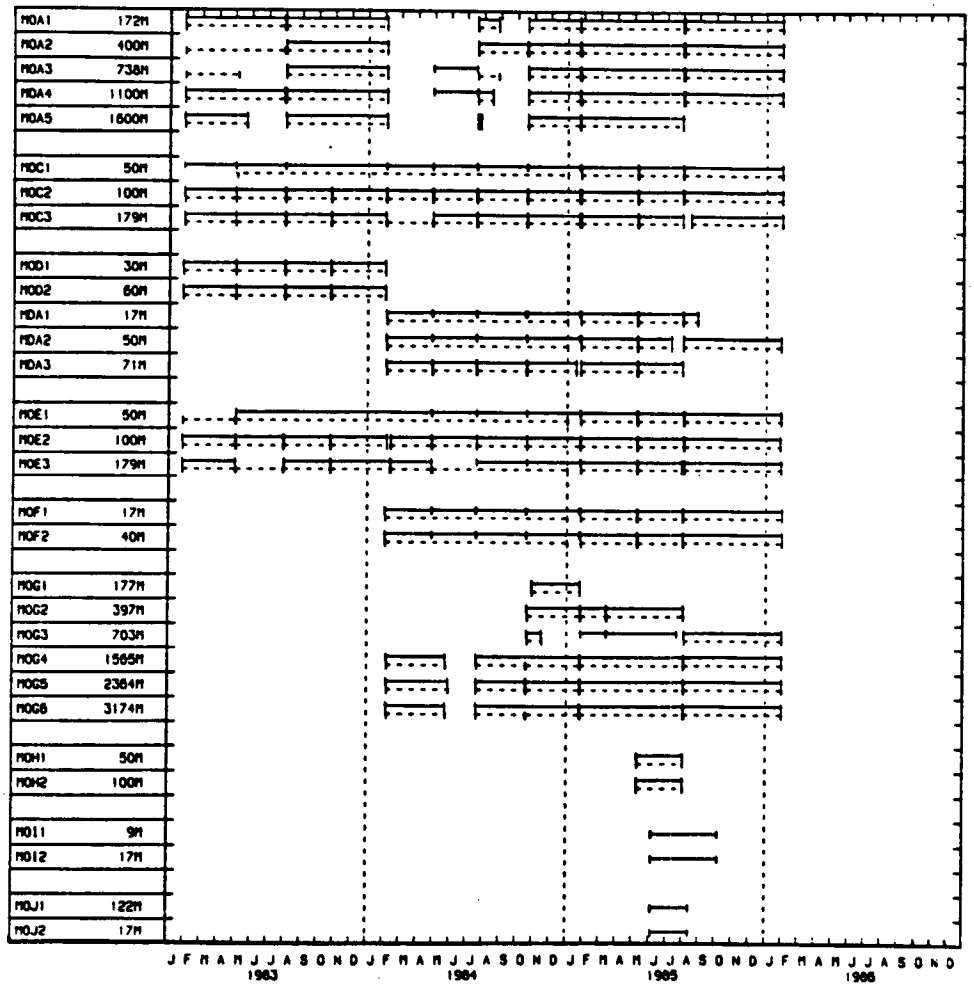
Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
Florida
CUBA
Yucatan Strait
200 m
500 m
1000 m
2000 m
3000 m
3000 m
1000 m
200 m
E
3/180
C
3/180
D
3/75
F
2/50
A
5/1700
G
6/3400
MOORING LOCATION
PRESSURE
NDBC BUOY

GULF OF MEXICO (WEST FLORIDA SHELF) YEARS 1, 2 AND 4 CURRENT METERS



←YEAR 1→←YEAR 2→←YEAR 4→

NODC 015 FORMAT BLOCKSIZE = 3600 (BYTES) RECORD LENGTH = 60 (BYTES) DENSITY = 1600 (BPI)

TAPE FILE NUMBER	MOORING ID	INSTRUMENT DEPTH(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION
1	M0A1	172.0	1697.0	18027	EASTERN GULF MOORING A INST 1
2	M0A1	172.0	1697.0	17648	EASTERN GULF MOORING A INST 1
3	M0A2	400.0	1697.0	18032	EASTERN GULF MOORING A INST 2
4	M0A2	400.0	1697.0	17672	EASTERN GULF MOORING A INST 2
5	M0A3	738.0	1697.0	18029	EASTERN GULF MOORING A INST 3
6	M0A3	738.0	1697.0	17670	EASTERN GULF MOORING A INST 3
7	M0A4	1100.0	1697.0	18032	EASTERN GULF MOORING A INST 4
8	M0A4	1100.0	1697.0	13254	EASTERN GULF MOORING A INST 4
9	M0A5	1600.0	1697.0	18023	EASTERN GULF MOORING A INST 5
10	M0C1	50.0	180.0	4931	EASTERN GULF MOORING C INST 1
11	M0C1	50.0	180.0	4075	EASTERN GULF MOORING C INST 1
12	M0C1	50.0	180.0	17780	EASTERN GULF MOORING C INST 1
13	M0C1	50.0	180.0	17781	EASTERN GULF MOORING C INST 1
14	M0C2	100.0	180.0	4931	EASTERN GULF MOORING C INST 2
15	M0C2	100.0	180.0	4082	EASTERN GULF MOORING C INST 2
16	M0C2	100.0	180.0	13323	EASTERN GULF MOORING C INST 2
17	M0C3	179.0	180.0	9863	EASTERN GULF MOORING C INST 3
18	M0C3	179.0	180.0	8177	EASTERN GULF MOORING C INST 3
19	M0C3	179.0	180.0	8173	EASTERN GULF MOORING C INST 3
20	M0C3	179.0	180.0	12315	EASTERN GULF MOORING C INST 3
21	M0C3	179.0	180.0	12312	EASTERN GULF MOORING C INST 3
22	MDA1	17.0	75.0	4932	EASTERN GULF MOORING D INST 1
23	MDA1	17.0	75.0	4076	EASTERN GULF MOORING D INST 1
24	MDA1	17.0	75.0	1364	EASTERN GULF MOORING D INST 1

SAIC/RALEIGH TAPE REEL NUMBER: SP1206

NODC 015 FORMAT BLOCKSIZE = 3600 (BYTES) RECORD LENGTH = 60 (BYTES) DENSITY = 1600 (BPI)

TAPE FILE NUMBER	MOORING ID	INSTRUMENT DEPTH(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION
25	MDA2	50.0	75.0	4932	EASTERN GULF MOORING D INST 2
26	MDA2	50.0	75.0	3054	EASTERN GULF MOORING D INST 2
27	MDA2	50.0	75.0	8848	EASTERN GULF MOORING D INST 2
28	MDA3	71.0	75.0	9857	EASTERN GULF MOORING D INST 3
29	MDA3	71.0	75.0	8171	EASTERN GULF MOORING D INST 3
30	MDA3	71.0	75.0	8169	EASTERN GULF MOORING D INST 3
31	MOE1	50.0	180.0	4870	EASTERN GULF MOORING E INST 1
32	MOE1	50.0	180.0	4158	EASTERN GULF MOORING E INST 1
33	MOE1	50.0	180.0	17498	EASTERN GULF MOORING E INST 1
34	MOE2	100.0	180.0	4866	EASTERN GULF MOORING E INST 2
35	MOE2	100.0	180.0	4158	EASTERN GULF MOORING E INST 2
36	MOE2	100.0	180.0	17311	EASTERN GULF MOORING E INST 2
37	MOE2	100.0	180.0	17310	EASTERN GULF MOORING E INST 2
38	MOE3	179.0	180.0	9739	EASTERN GULF MOORING E INST 3
39	MOE3	179.0	180.0	7871	EASTERN GULF MOORING E INST 3
40	MOE3	179.0	180.0	17502	EASTERN GULF MOORING E INST 3
41	MOF1	17.0	50.0	4933	EASTERN GULF MOORING F INST 1
42	MOF1	17.0	50.0	4078	EASTERN GULF MOORING F INST 1
43	MOF1	17.0	50.0	17850	EASTERN GULF MOORING F INST 1
44	MOF2	40.0	50.0	4933	EASTERN GULF MOORING F INST 2
45	MOF2	40.0	50.0	4084	EASTERN GULF MOORING F INST 2
46	MOF2	40.0	50.0	17844	EASTERN GULF MOORING F INST 2

END-OF-TAPE SENSED AFTER READING 46 FILES

Gulf of Mexico
Physical Oceanography Program
Program Year 4 - Eastern Gulf

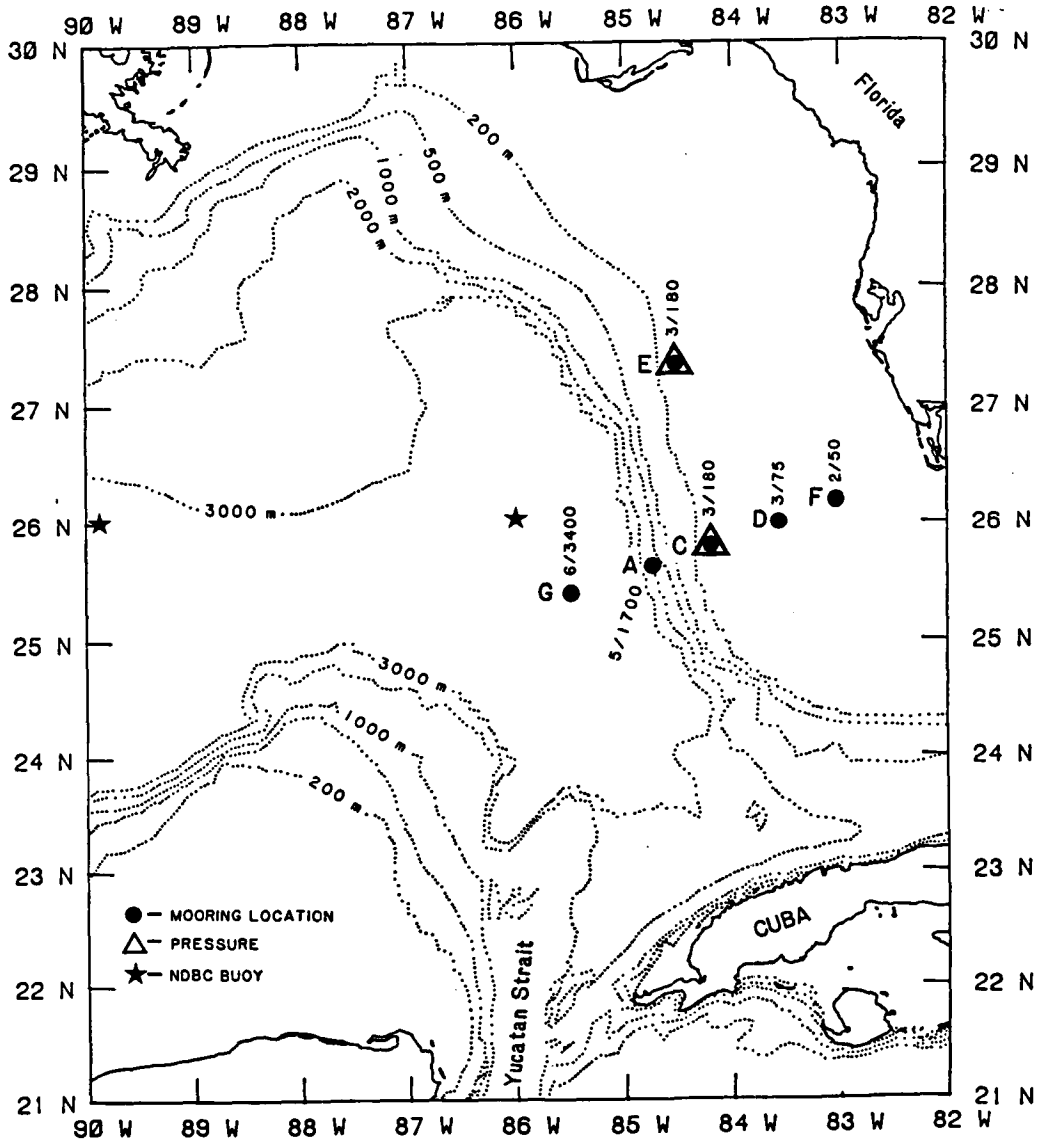
Volume II: Current Meter Observations (Part 2)

MMS Contract No. 14-12-0001-29158

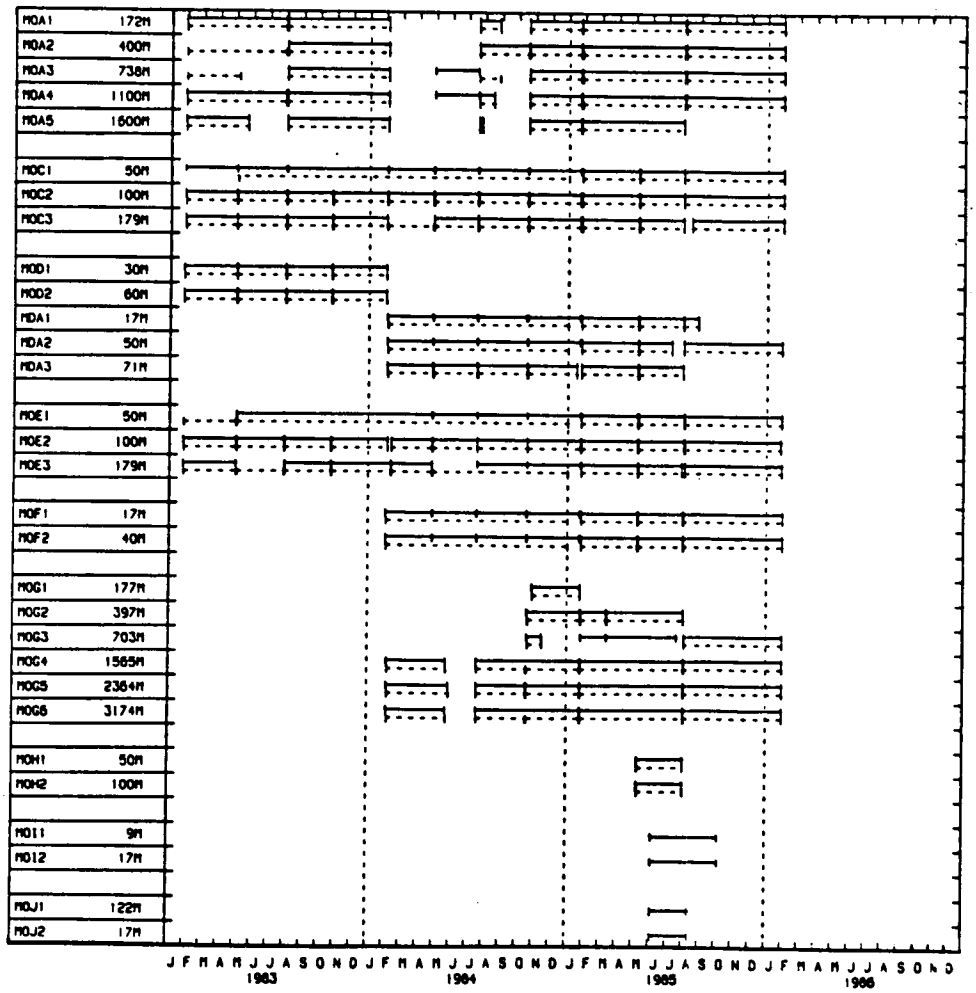
Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
Florida
CUBA
Yucatan Strait
200 m
500 m
1000 m
2000 m
3000 m
E
3/180
C
3/180
D
3/75
F
2/50
A
5/1700
G
6/3400
MOORING LOCATION
PRESSURE
NDBC BUOY

GULF OF MEXICO (WEST FLORIDA SHELF) YEARS 1, 2 AND 4 CURRENT METERS



←YEAR 1⟶⟵YEAR 2⟶⟵YEAR 4⟶

SAIC/RALEIGH TAPE REEL NUMBER: SP1207

NODC 015 FORMAT BLOCKSIZE = 3600 (BYTES) RECORD LENGTH = 60 (BYTES) DENSITY = 1600 (BPI)

TAPE FILE NUMBER	MOORING ID	INSTRUMENT DEPTH(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION
1	MOG2	397.0	3200.0	4420	EASTERN GULF MOORING G INST 2
2	MOG2	397.0	3200.0	13622	EASTERN GULF MOORING G INST 2
3	MOG2	397.0	3200.0	13620	EASTERN GULF MOORING G INST 2
4	MOG3	703.0	3200.0	4430	EASTERN GULF MOORING G INST 3
5	MOG3	703.0	3200.0	12380	EASTERN GULF MOORING G INST 3
6	MOG3	703.0	3200.0	17598	EASTERN GULF MOORING G INST 3
7	MOG4	1565.0	3200.0	18059	EASTERN GULF MOORING G INST 4
8	MOG4	1565.0	3200.0	18060	EASTERN GULF MOORING G INST 4
9	MOG4	1565.0	3200.0	17597	EASTERN GULF MOORING G INST 4
10	MOG5	2364.0	3200.0	18058	EASTERN GULF MOORING G INST 5
11	MOG5	2364.0	3200.0	18056	EASTERN GULF MOORING G INST 5
12	MOG5	2364.0	3200.0	17595	EASTERN GULF MOORING G INST 5
13	MOG6	3174.0	3200.0	18058	EASTERN GULF MOORING G INST 6
14	MOG6	3174.0	3200.0	18057	EASTERN GULF MOORING G INST 6
15	MOG6	3174.0	3200.0	17598	EASTERN GULF MOORING G INST 6

END-OF-TAPE SENSED AFTER READING 15 FILES

FOR QUESTIONS REGARDING THE ABOVE DATA CONTACT:
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC)
4900 WATERS EDGE DRIVE
SUITE 255
RALEIGH, NORTH CAROLINA 27606

(919) 851-8356

OR BY ELECTRONIC MAIL AT THE FOLLOWING MAILBOXES:
SAI.RALEIGH
E.WADDELL

Gulf of Mexico
Physical Oceanography Program
Program Year 4 - Eastern Gulf

Volume III: Associated SOOP Cruise Data

MMS Contract No. 14-12-0001-29158

Submitted by:

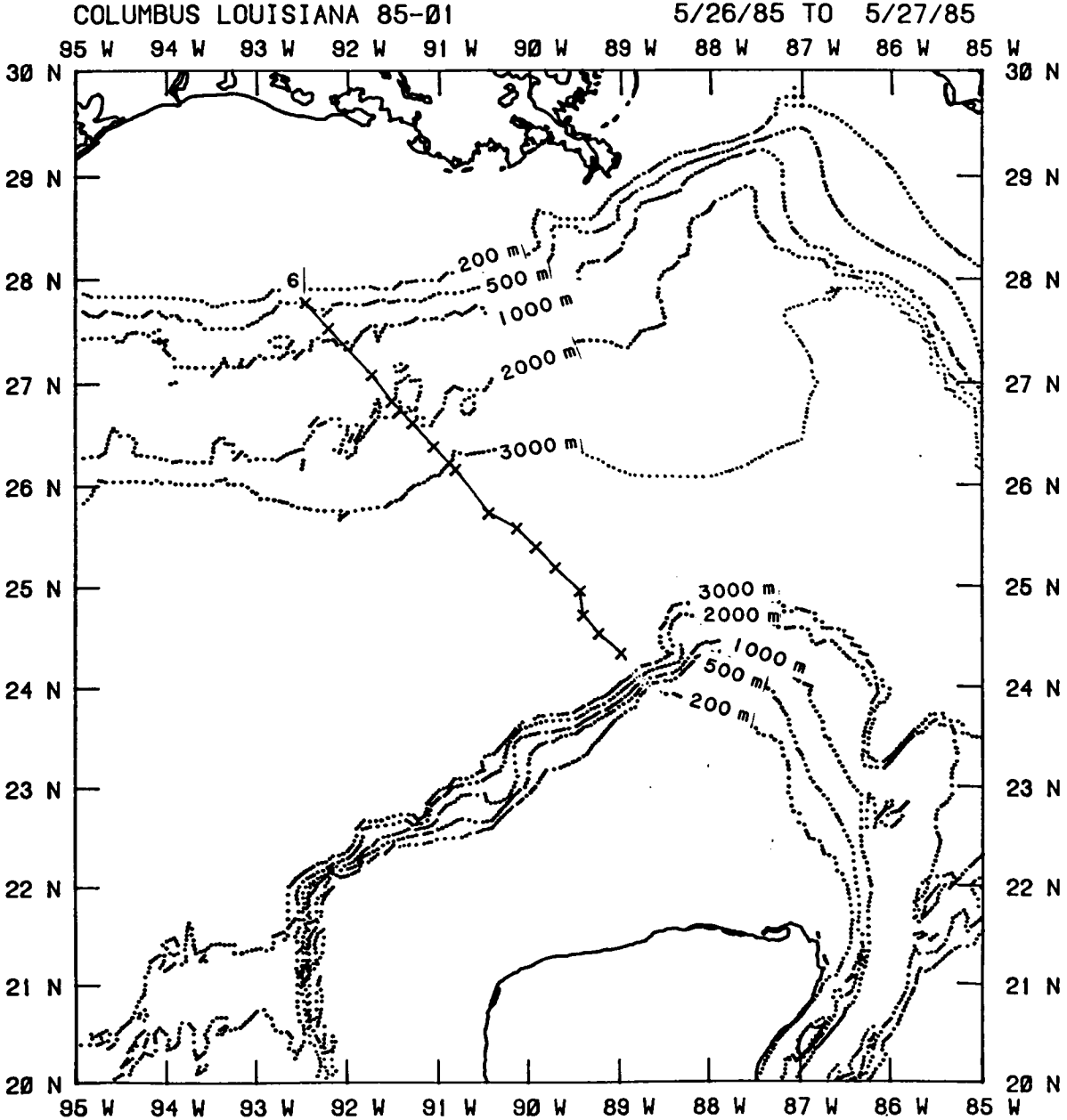
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

TAPE FILE NUMBER: 1

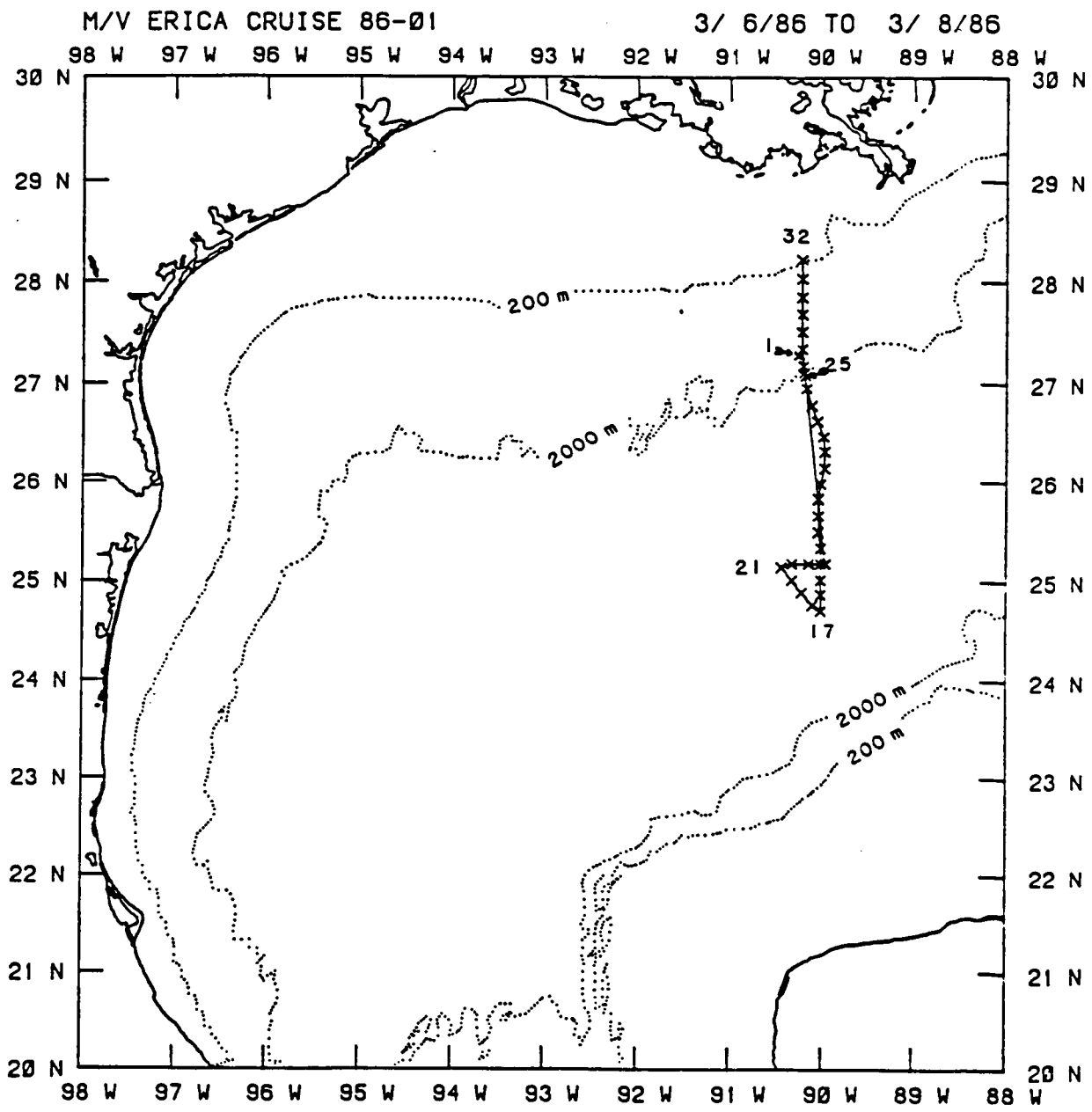

COLUMBUS LOUISIANA 85-01
5/26/85 TO 5/27/85
95 W 94 W 93 W 92 W 91 W 90 W 89 W 88 W 87 W 86 W 85 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
20 N
200 m
500 m
1000 m
2000 m
3000 m
6
3000 m
2000 m
1000 m
500 m
200 m

SAIC

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

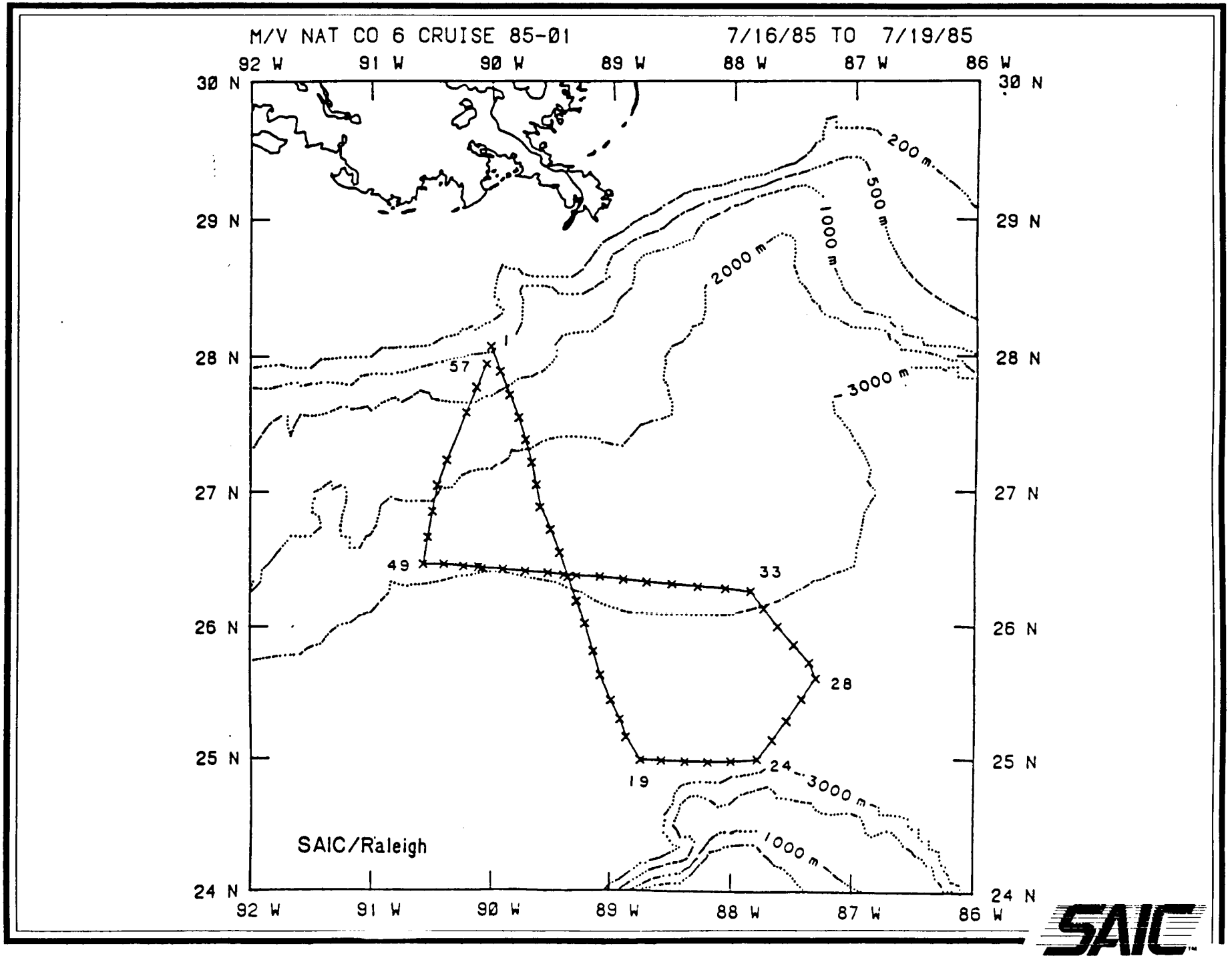
TAPE FILE NUMBER: 2


M/V ERICA CRUISE 86-01
3/ 6/86 TO 3/ 8/86
98 W
97 W
96 W
95 W
94 W
93 W
92 W
91 W
90 W
89 W
88 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
20 N
200 m
2000 m
32
1
25
21
17

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

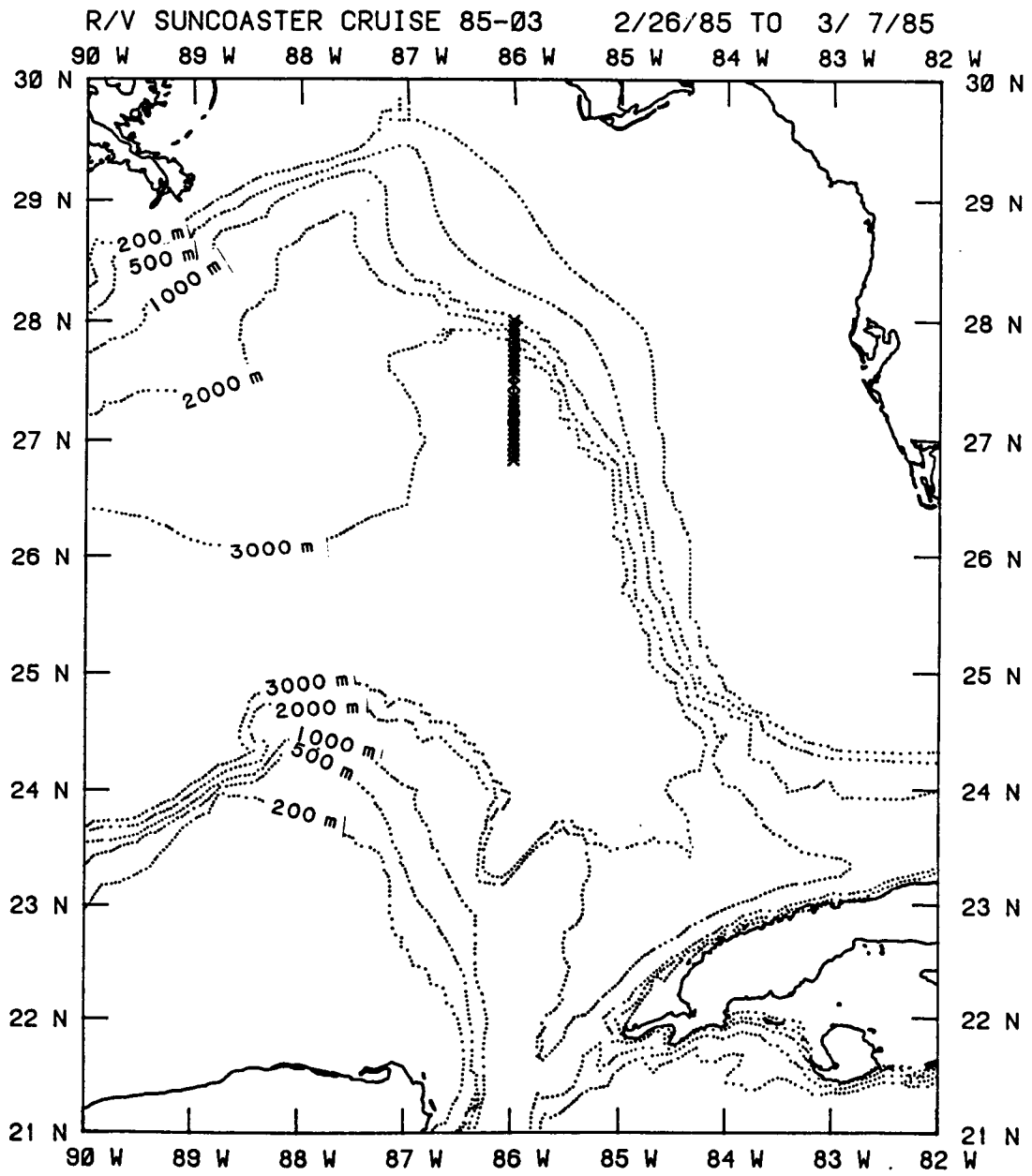
TAPE FILE NUMBER: 3


M/V NAT CO 6 CRUISE 85-01
7/16/85 TO 7/19/85
92 W
91 W
90 W
89 W
88 W
87 W
86 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
200 m
500 m
1000 m
2000 m
3000 m
1
57
49
33
28
19
24
SAIC/Raleigh

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

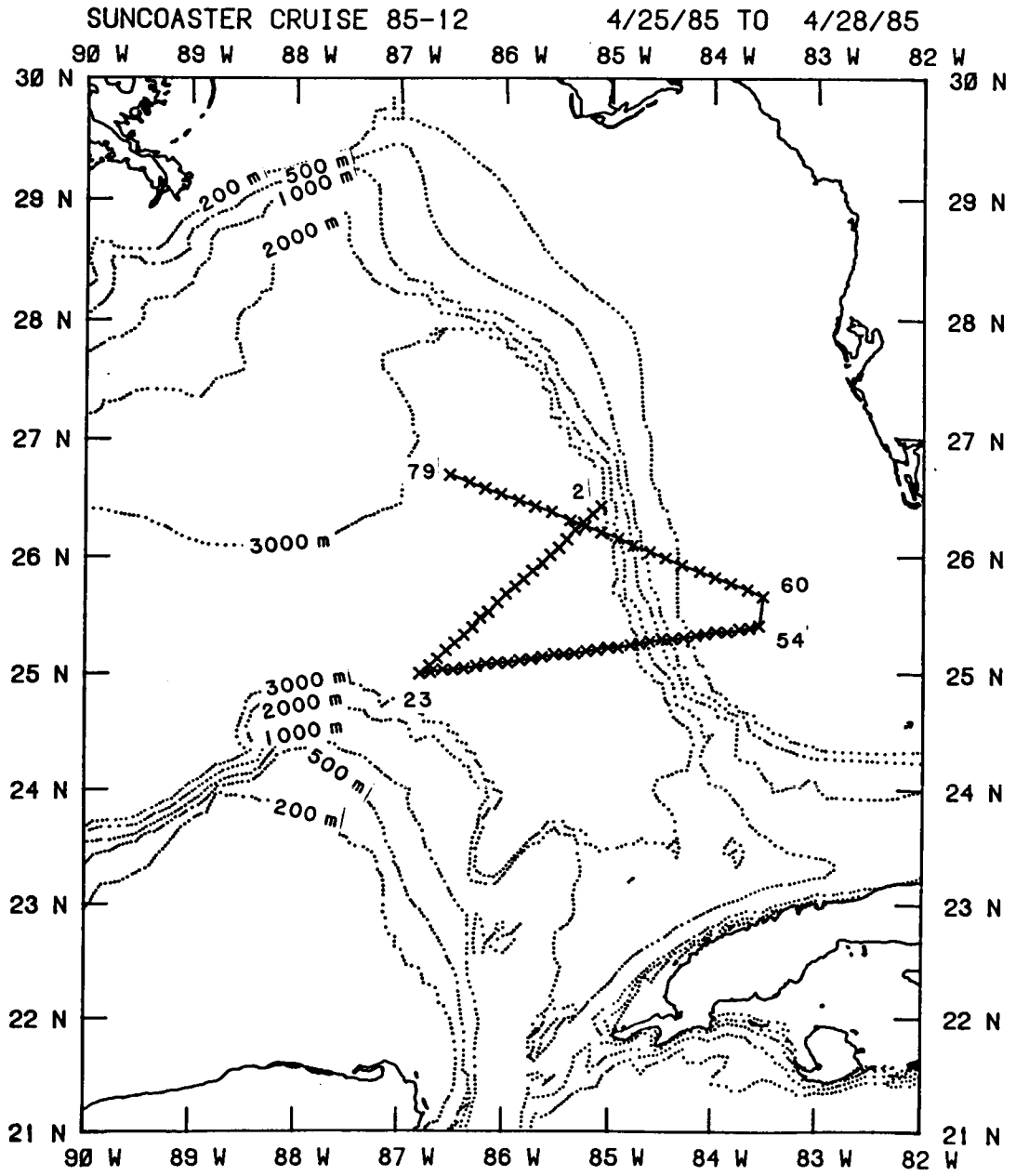
TAPE FILE NUMBER: 4


R/V SUNCOASTER CRUISE 85-03 2/26/85 TO 3/ 7/85
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
3000 m
2000 m
1000 m
500 m
200 m

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

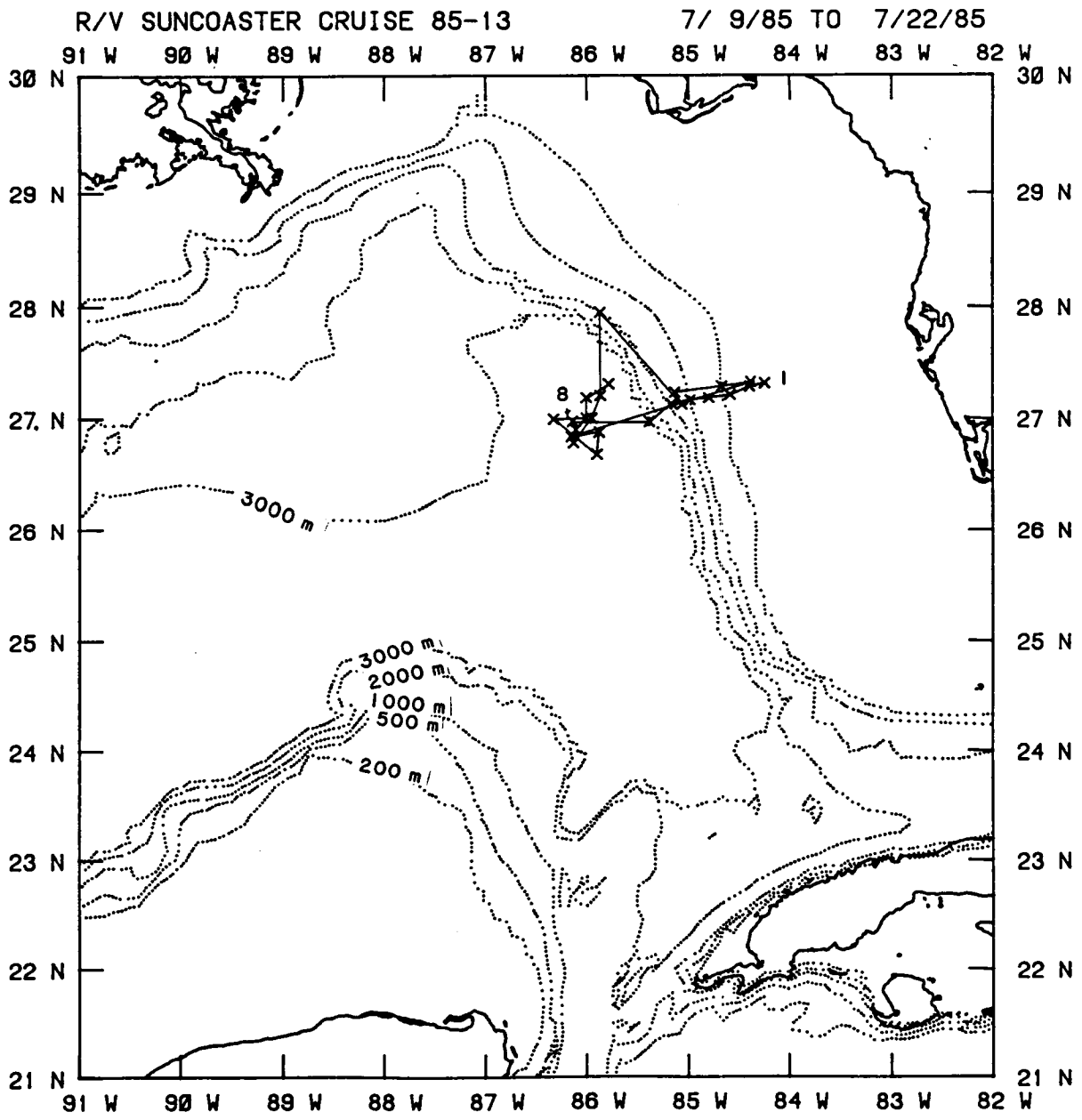
TAPE FILE NUMBER: 5


SUNCOASTER CRUISE 85-12
4/25/85 TO 4/28/85
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
79
2
60
54
23

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

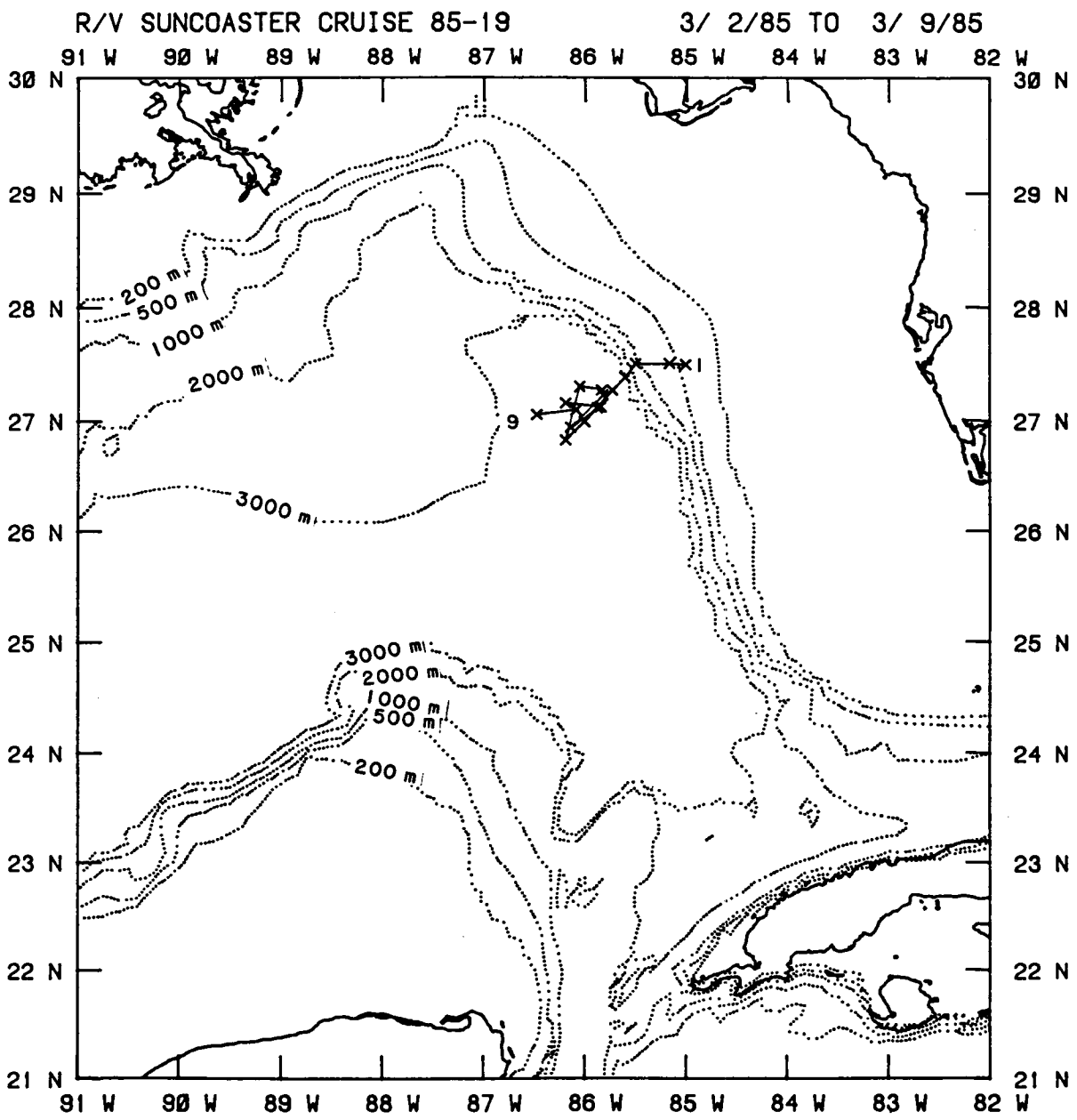
TAPE FILE NUMBER: 6


R/V SUNCOASTER CRUISE 85-13
7/ 9/85 TO 7/22/85
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27. N
26 N
25 N
24 N
23 N
22 N
21 N
8
1
3000 m
3000 m
2000 m
1000 m
500 m
200 m

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

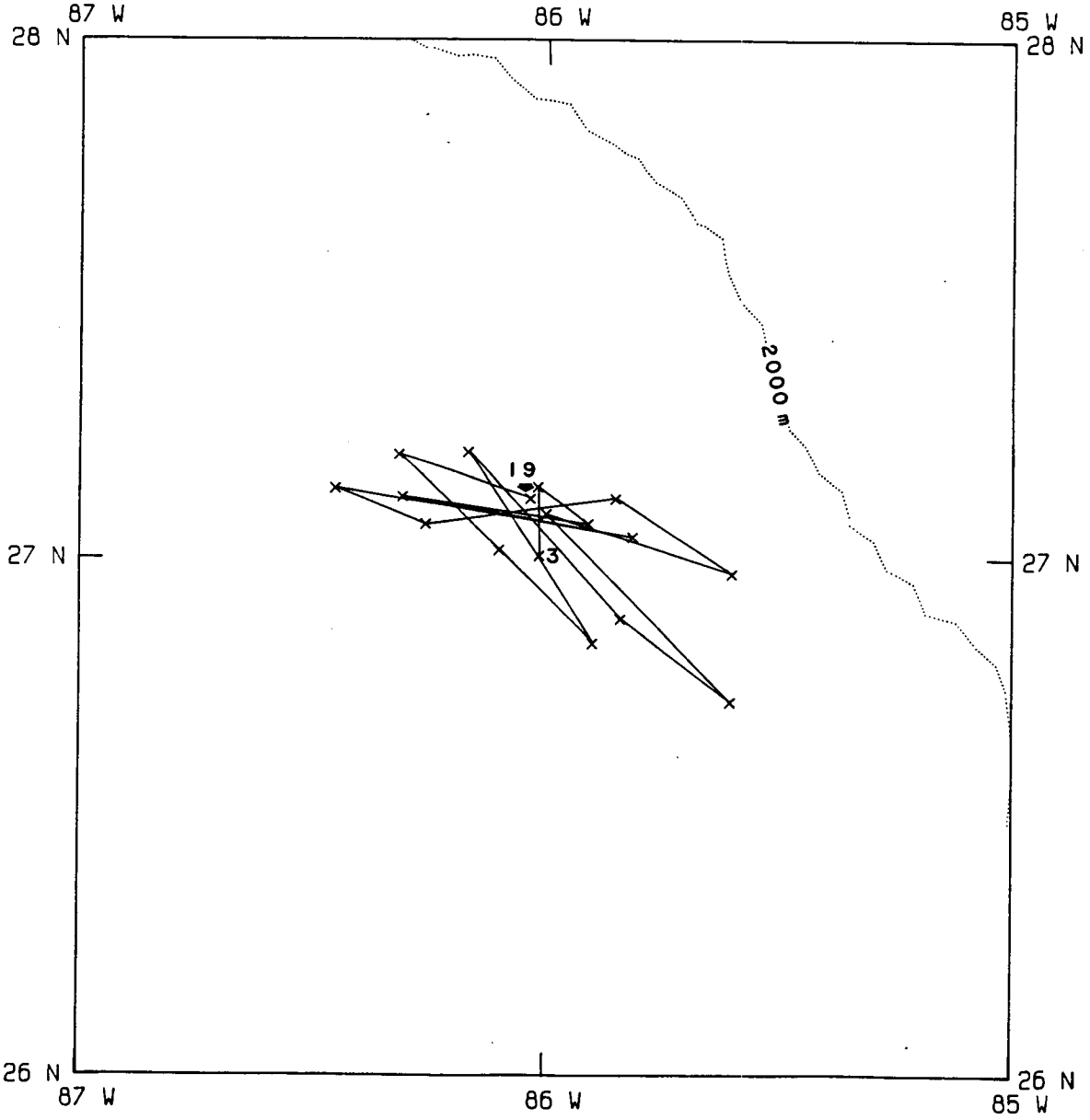
TAPE FILE NUMBER: 7


R/V SUNCOASTER CRUISE 85-19
3/ 2/85 TO 3/ 9/85
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
1
9

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

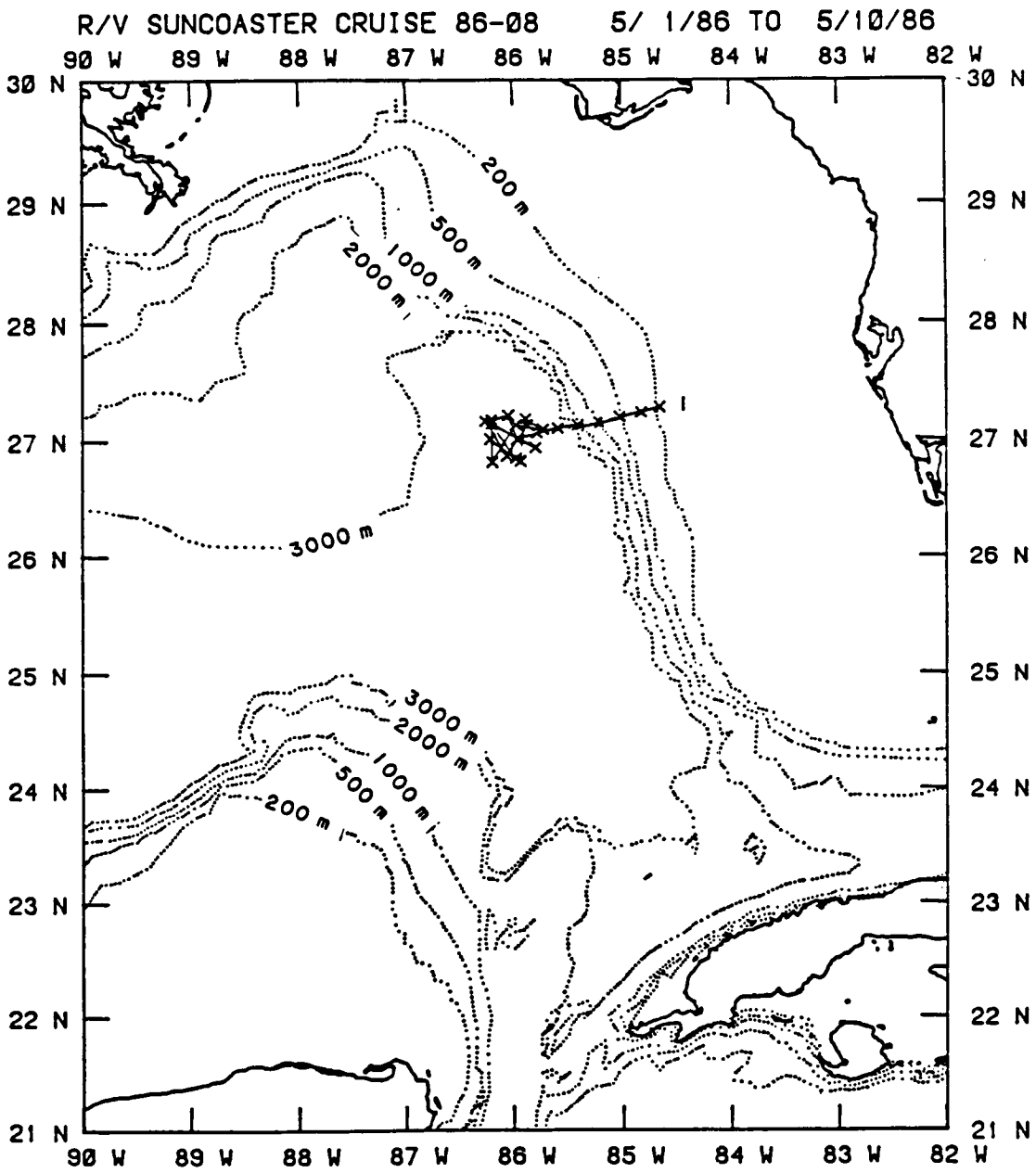
TAPE FILE NUMBER: 8


R/V SUNCOASTER CRUISE 86-01
1/15/86 TO 1/22/86
87 W
86 W
85 W
28 N
27 N
26 N
2000 m
19
3

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1204

TAPE FILE NUMBER: 9


R/V SUNCOASTER CRUISE 86-08 5/ 1/86 TO 5/10/86
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
3000 m
2000 m
1000 m
500 m
200 m

Science Applications International Corporation

August 17, 1989

Dr. Murray Brown
Minerals Management Service/LE-4
1201 Elmwood Park Blvd.
New Orleans, LA 70123

Dear Murray:

Enclosed please find the information you requested documenting Science Applications International Corporation's (SAIC) submittal of the Years 1 and 2 Hydrographic data and Year 4 data from the Gulf of Mexico Physical Oceanography Program. These data sets should complete the NODC submissions for Years 1-4 of the Program. We are currently organizing the Year 5 data and plan to submit this information to NODC within the next month. Upon completion of the submittal, I will forward you the necessary documentation. ← NO

I hope this documentation will satisfy your needs. If you should have any questions/comments, please feel free to contact me.

Sincerely,

Bob

Robert J. Wayland
Senior Meteorologist

Enclosures

MFR: On 8-24-89 Van Waddell agreed w/ me that gneral SOOP data were still not submitted, ad that ADCM data were still not submitted. Both are being prepared now. Murray Brown

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

National Oceanographic Data Center

August 22, 1989

Dr. Robert J. Wayland
Science Applications International Corp.
4900 Water's Edge Drive, Suite 255
Raleigh, North Carolina 27606

Dear Dr. Wayland:

The National Oceanographic Data Center (NODC) has received from you, on July 10, 1989, two data tapes plus documentation. As per your letter, these data are Year-3 data only, from the Minerals Management Service-sponsored "Gulf of Mexico Physical Oceanographic Program" (Contract 14-12-0001-29158).

NODC has converted and merged certain data files to suit our own archiving requirements and tagged each data set with the Project Code 0125. The water physics/chemistry data is now in NODC's Ocean Station format and the air and ship XBT's are in our Universal BT format. All temperature files which have matching current meter data were merged. I have included an inventory of these data.

Our preliminary examinations find these data to be carefully prepared and of good quality.

NODC considers the contractual obligations of SAIC (for Year-3 only) to be met, with these two provisos: 1.) MM/New Orleans concurrence 2.) unforseen data problems which may have to be corrected.

We appreciate the cooperation shown by Science Applications during this project.

Sincerely,

Frances J. Mitchell/FOR

Anthony R. Picciolo
Chief, Data Acquisition and
Management Branch

Enclosure

cc: Dr. M. Brown MMS/New Orleans w/ enclosure
cc: J. Sylvester NODC-Miami

Minerals Management Service - Gulf of Mexico Physical Oceanography/Year 3
NODC Archived Data

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900186	319870	C022	0125	312H	31AL	TV2993	01/23/86	02/04/86	176	12,349
8900186	329604	C022	0125	312H	32PE	TV2994	10/22/85	10/25/85	39	5,208
8900186	323072	C100	0125	312H	32PE	PN-8502	10/22/85	10/25/85	18	181
8900186	570043	C100	0125	5700	57AL	AL-8601	01/24/86	02/03/86	45	472
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
8900186	074752	C118	0126	312H	32HP	GOMYEAR3	11/11/85	11/13/85	67	67
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
8900186	TV2993	F022	0125	312H	57AL	AL-8601	01/23/86	02/04/86	176	12,349
8900186	TV2994	F022	0125	312H	32PE	PN-8502	10/22/85	10/25/85	39	5,208
8900186	L00404	L129	0125	312H	317F	S-2	06/12/85	10/18/85	1	6,156
8900186	L00405	L129	0125	312H	317F	T-1	06/13/85	10/14/85	1	5,953
8900186	L00407	L142	0125	312H	3191	GOMYR3	11/12/85	11/20/85	6	2,960

File Type Codes:

C022 = Data extracted from STD's at standard levels
C100 = Ocean serial station data (converted from F004 format)
C116 = Expendable bathythermograph
C118 = Airdropped expendable bathythermograph
F015 = Moored current meters
F022 = STD (electronically measured depth/temperature/salinity)
L129 = Temperature (from current meter moorings)
L142 = Airdropped expendable current profiler

Science Applications International Corporation

August 17, 1989

Mr. Francis Mitchell
NOAA/NODC
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Francis:

Enclosed please find two (2) nine-track magnetic data tapes containing hydrographic data collected during Years 1 and 2 of the Gulf of Mexico Physical Oceanography Program. The associated current meter data was forwarded to the NODC at an earlier date (see letter dated December 13, 1985 from Tony Martin (SAIC) to Mr. Mitchell (NODC), attached). 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 XBT/AXBT/CTD data in NODC Format 022,
1 - 2400 foot tape containing Bottle data in NODC Format 004.
NOTE: This version of Format Type 004 has the sample depth stored as whole meters as opposed to meters to tenths, per our phone conversation of August 15, 1989.

(2) Eight (8) printed volumes (Orange covers) detailing the information stored on each tape:

Volume I - March, 1983 Hydrographic Cruise
Volume II - November, 1983 Hydrographic Cruise
Volume III - May, 1984 Hydrographic Cruise
Volume IV - May, 1984 AXBT Survey
Volume V - SOOP Data (Part 1)
Volume VI - SOOP Data (Part 2)
Volume VII - SOOP Data (Part 3)
Volume VIII - SOOP Data (Part 4)

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

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

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

Sincerely,

Bob

Robert J. Wayland
Senior Meteorologist

Enclosures

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

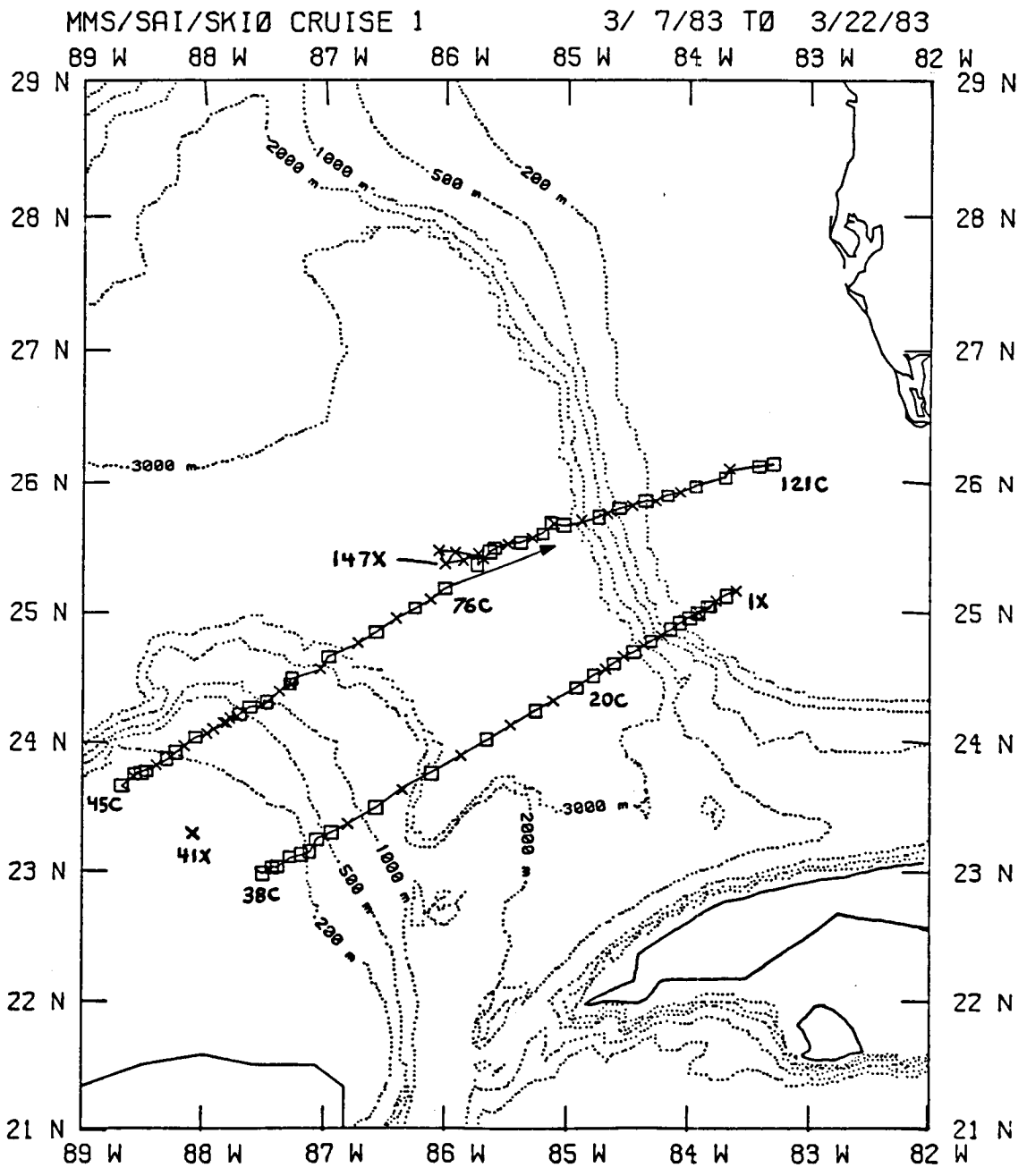
Volume I: March 1983 Hydrographic Cruise

MMS Contract No. 14-12-0001-29158

Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


MMS/SAI/SKIØ CRUISE 1
3/ 7/83 TØ 3/22/83
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
2000 m
1000 m
500 m
200 m
3000 m
121C
147X
76C
1X
20C
45C
41X
38C

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 23

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 24

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1210

TAPE FILE NUMBER: 1

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

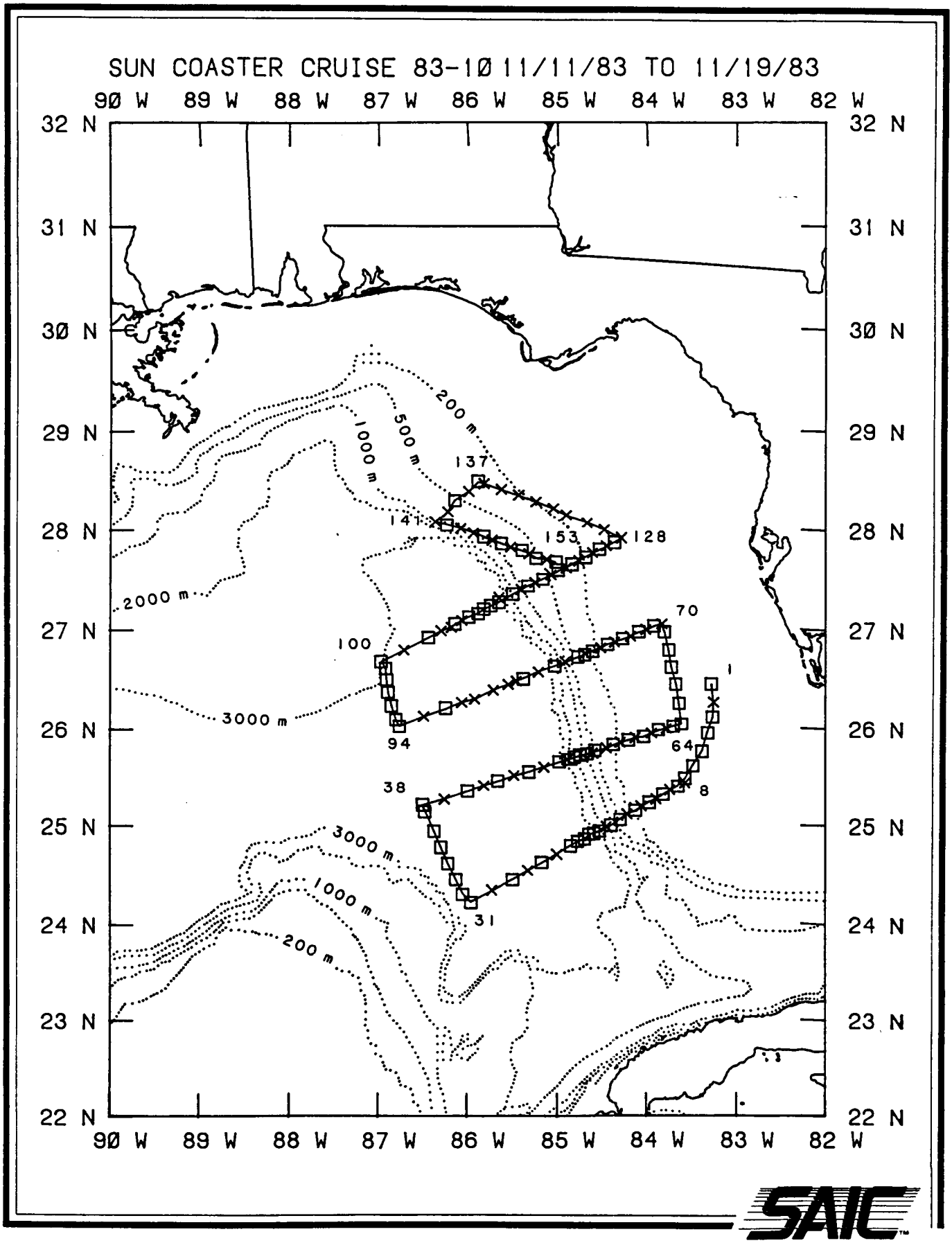
Volume II: November 1983 Hydrographic Cruise

MMS Contract No. 14-12-0001-29158

Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


SUN COASTER CRUISE 83-10 11/11/83 TO 11/19/83
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
32 N
31 N
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
200 m
500 m
1000 m
2000 m
3000 m
137
141
153
128
100
70
1
94
64
38
8
31

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 25

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 26

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1210

TAPE FILE NUMBER: 2

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

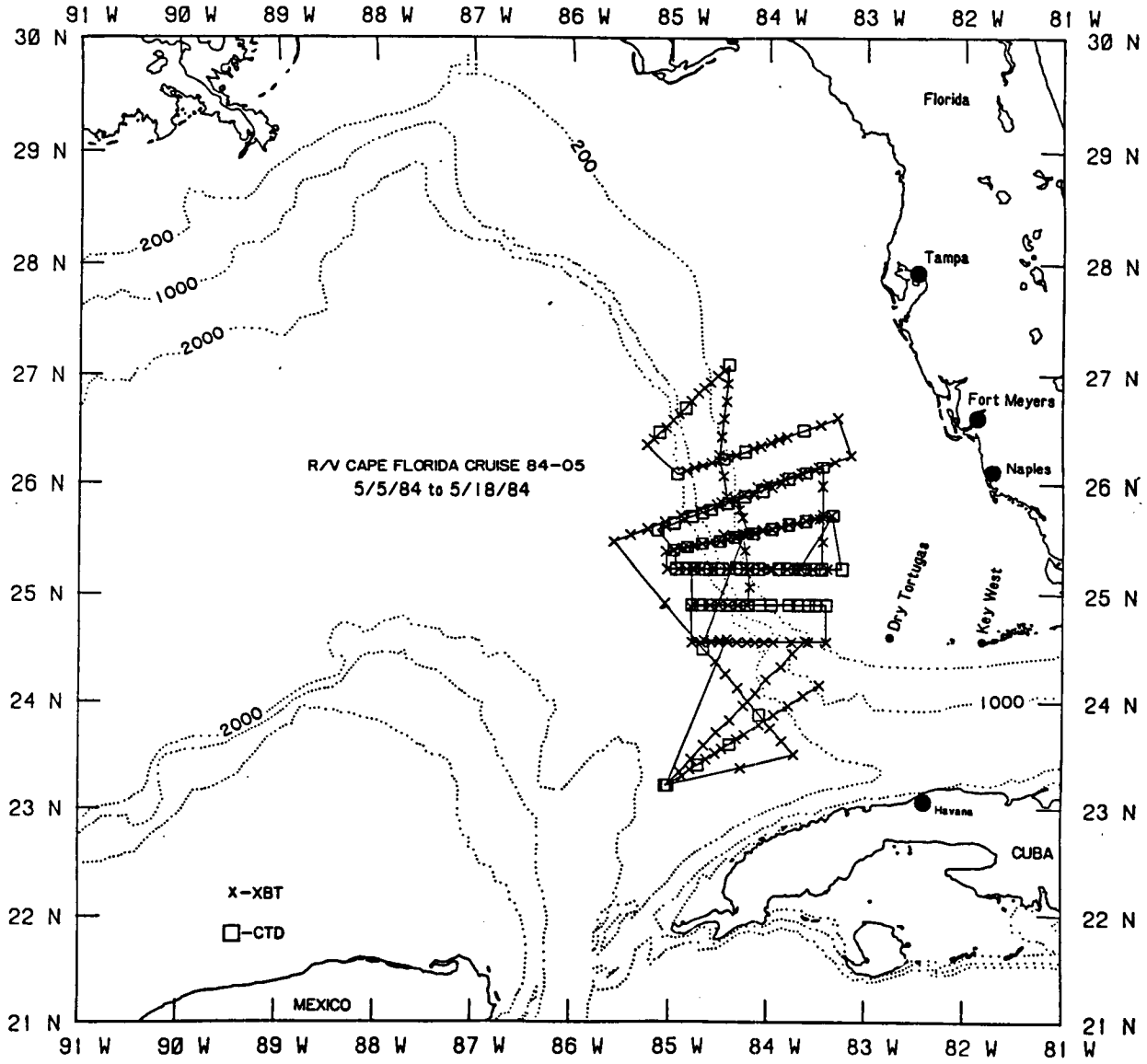
Volume III: May 1984 Hydrographic Cruise

MMS Contract No. 14-12-0001-29158

Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
81 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200
1000
2000
Florida
Tampa
Fort Meyers
Naples
Dry Tortugas
Key West
Havana
CUBA
MEXICO
R/V CAPE FLORIDA CRUISE 84-05
5/5/84 to 5/18/84
X-XBT
□-CTD

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 27

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 28

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1210

TAPE FILE NUMBER: 3

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

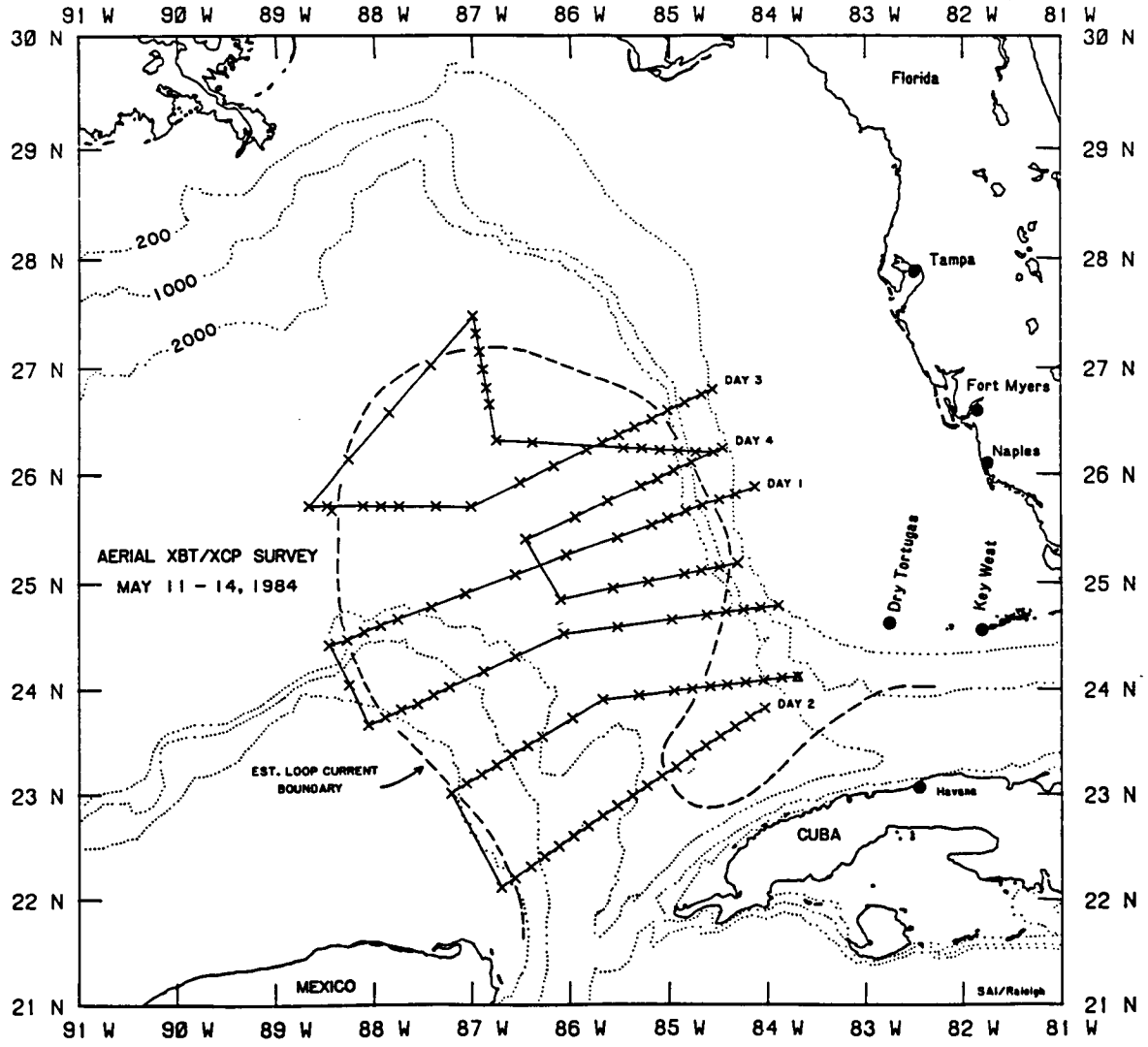
Volume IV: AXBT Survey Data

MMS Contract No. 14-12-0001-29158

Submitted by:

Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989


91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
81 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
Florida
Tampa
Fort Myers
Naples
Dry Tortugas
Key West
Havana
CUBA
MEXICO
200
1000
2000
DAY 3
DAY 4
DAY 1
DAY 2
AERIAL XBT/XCP SURVEY
MAY 11 - 14, 1984
EST. LOOP CURRENT
BOUNDARY
SAI/Raleigh

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 29

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 30

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 31

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 32

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

Volume V: Associated SOOP Cruise Data (Part 1)

MMS Contract No. 14-12-0001-29158

Submitted by:

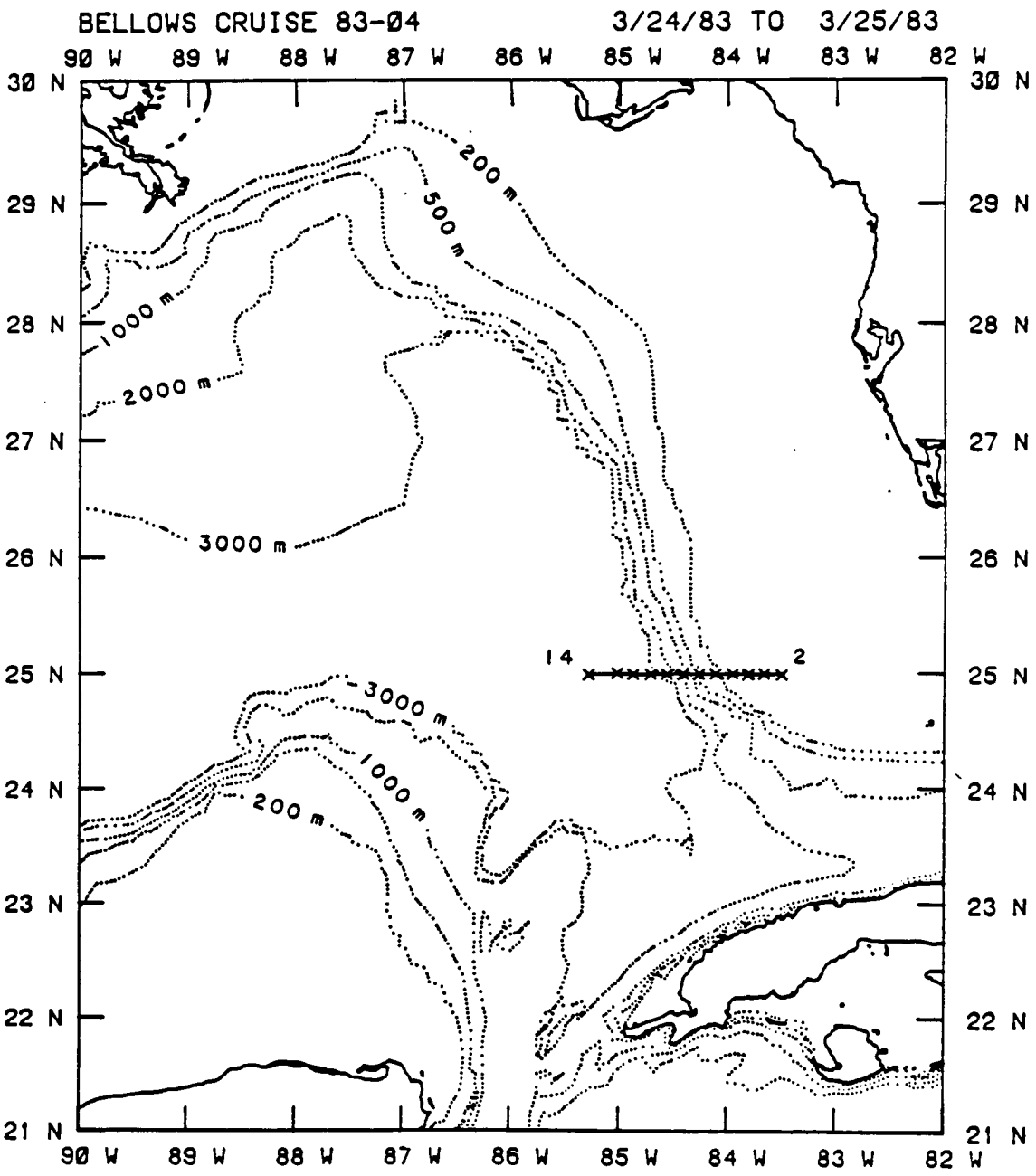
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

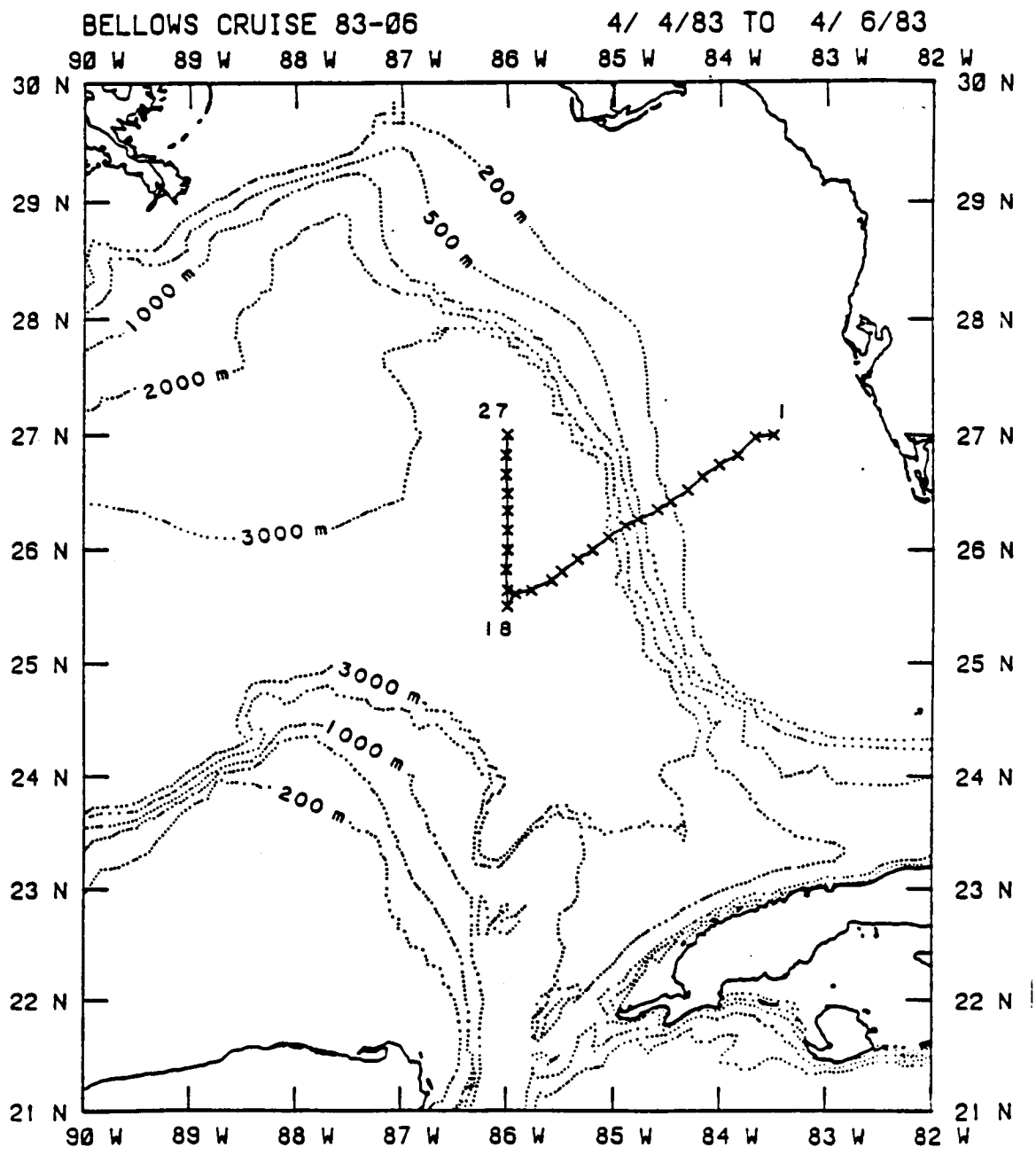
TAPE FILE NUMBER: 1


BELLOWS CRUISE 83-04
3/24/83 TO 3/25/83
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
14
2

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

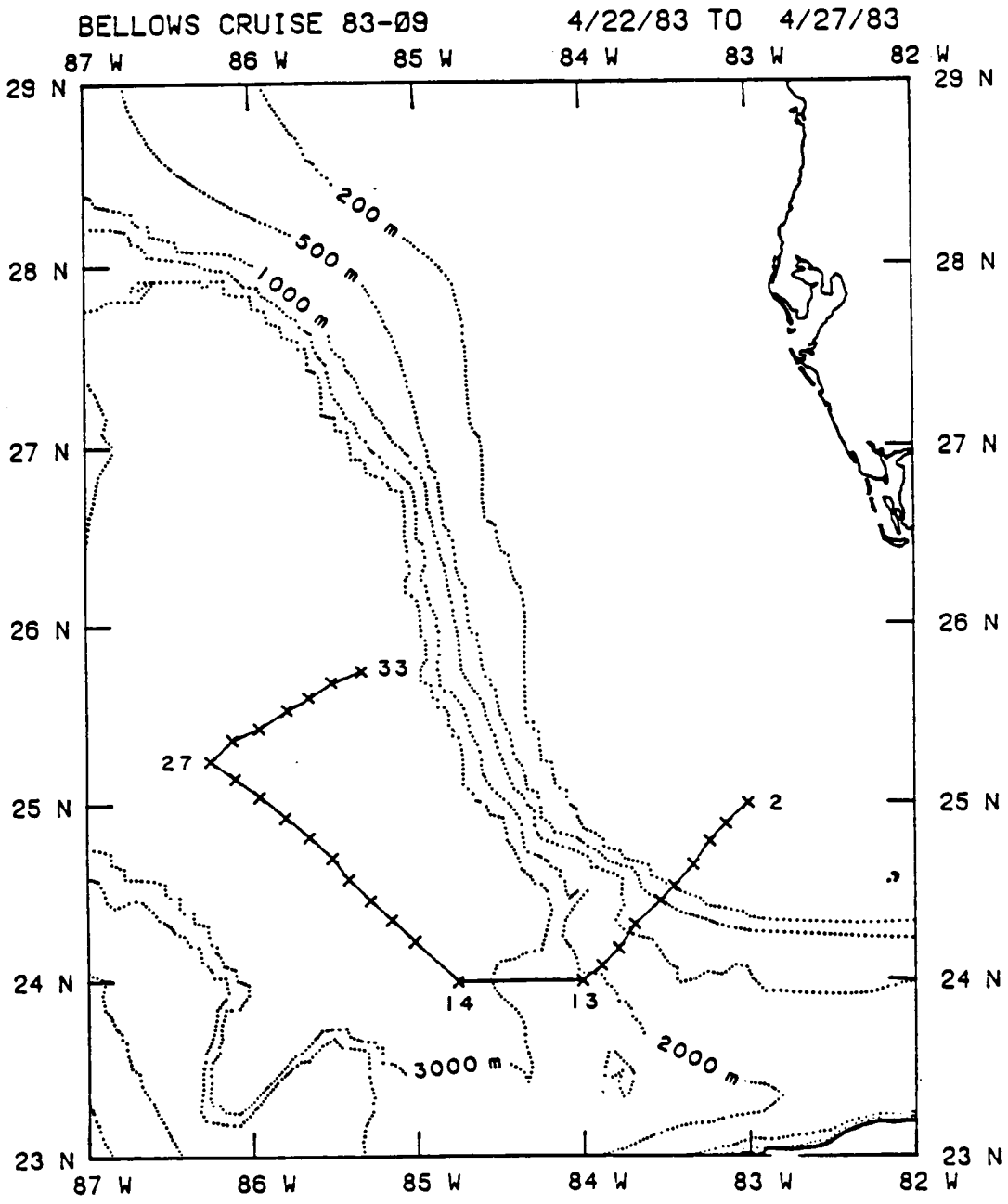
TAPE FILE NUMBER: 2


BELLOWS CRUISE 83-06
4/ 4/83 TO 4/ 6/83
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
27
1
18
3000 m
1000 m
200 m

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

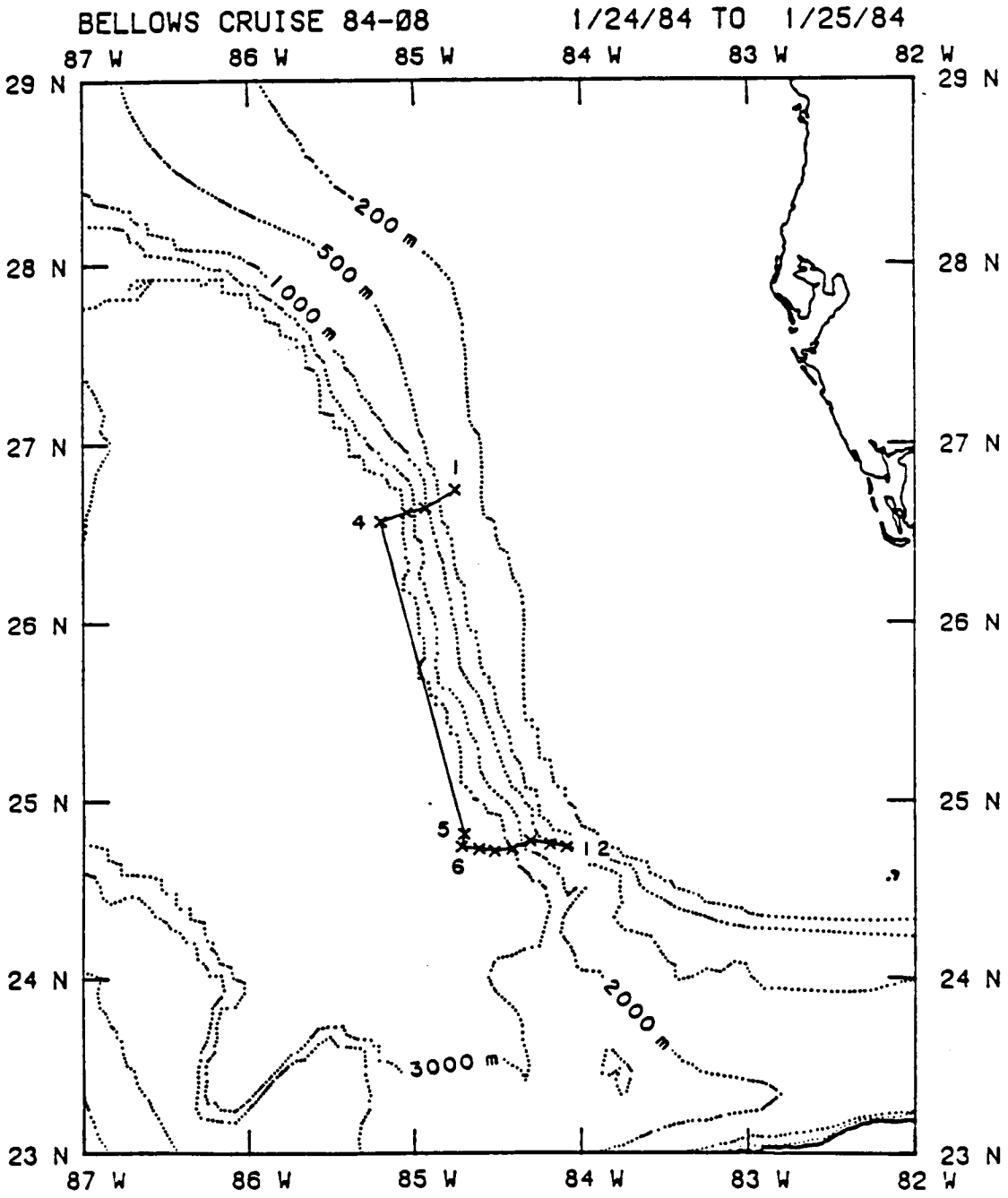
TAPE FILE NUMBER: 3


BELLOWS CRUISE 83-09
4/22/83 TO 4/27/83
87 W
86 W
85 W
84 W
83 W
82 W
29 N
28 N
27 N
26 N
25 N
24 N
23 N
200 m
500 m
1000 m
2000 m
3000 m
33
27
2
14
13

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

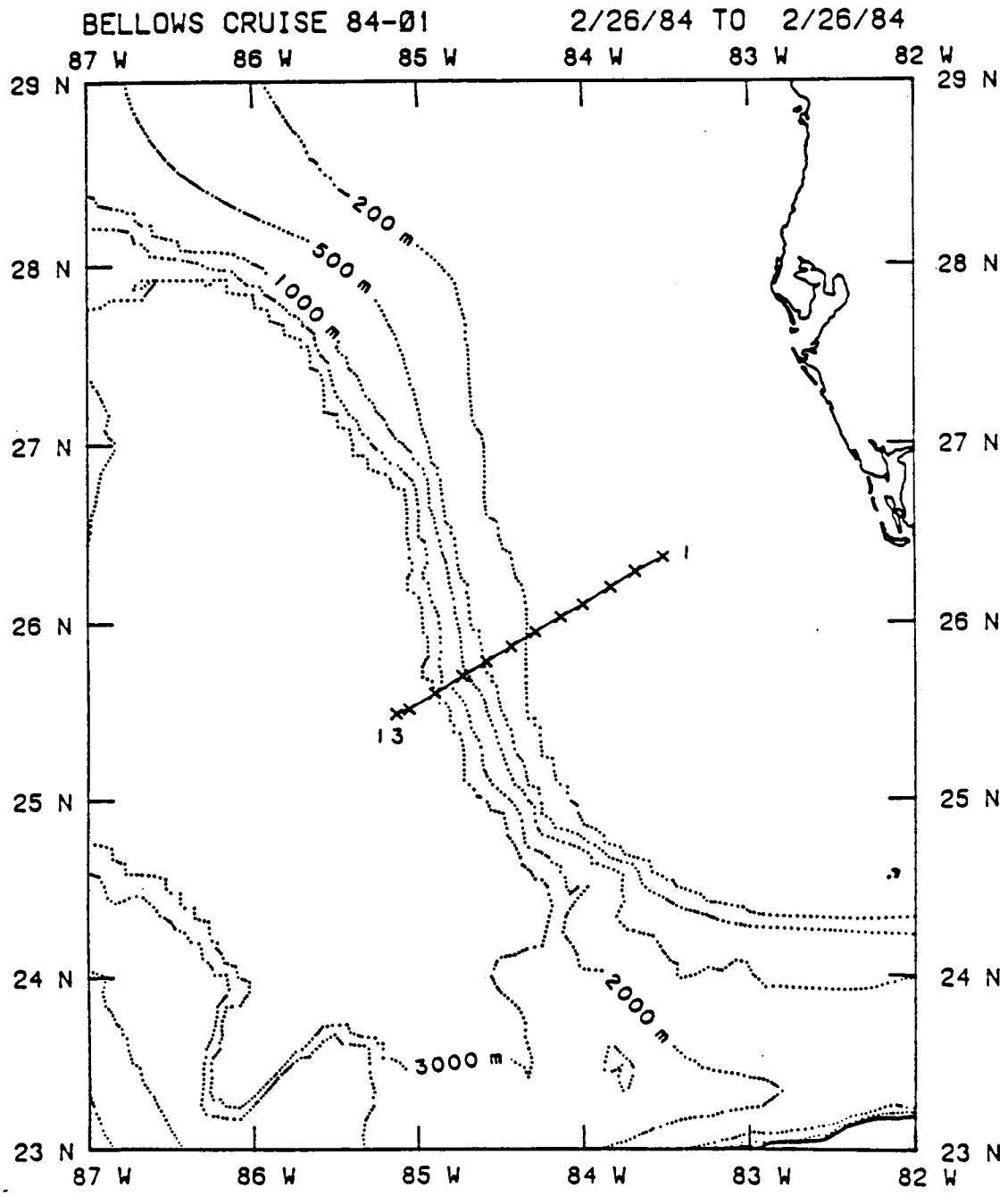
TAPE FILE NUMBER: 4


BELLOWS CRUISE 84-08
1/24/84 TO 1/25/84
87 W
86 W
85 W
84 W
83 W
82 W
29 N
28 N
27 N
26 N
25 N
24 N
23 N
200 m
500 m
1000 m
2000 m
3000 m
1
2
4
5
6

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

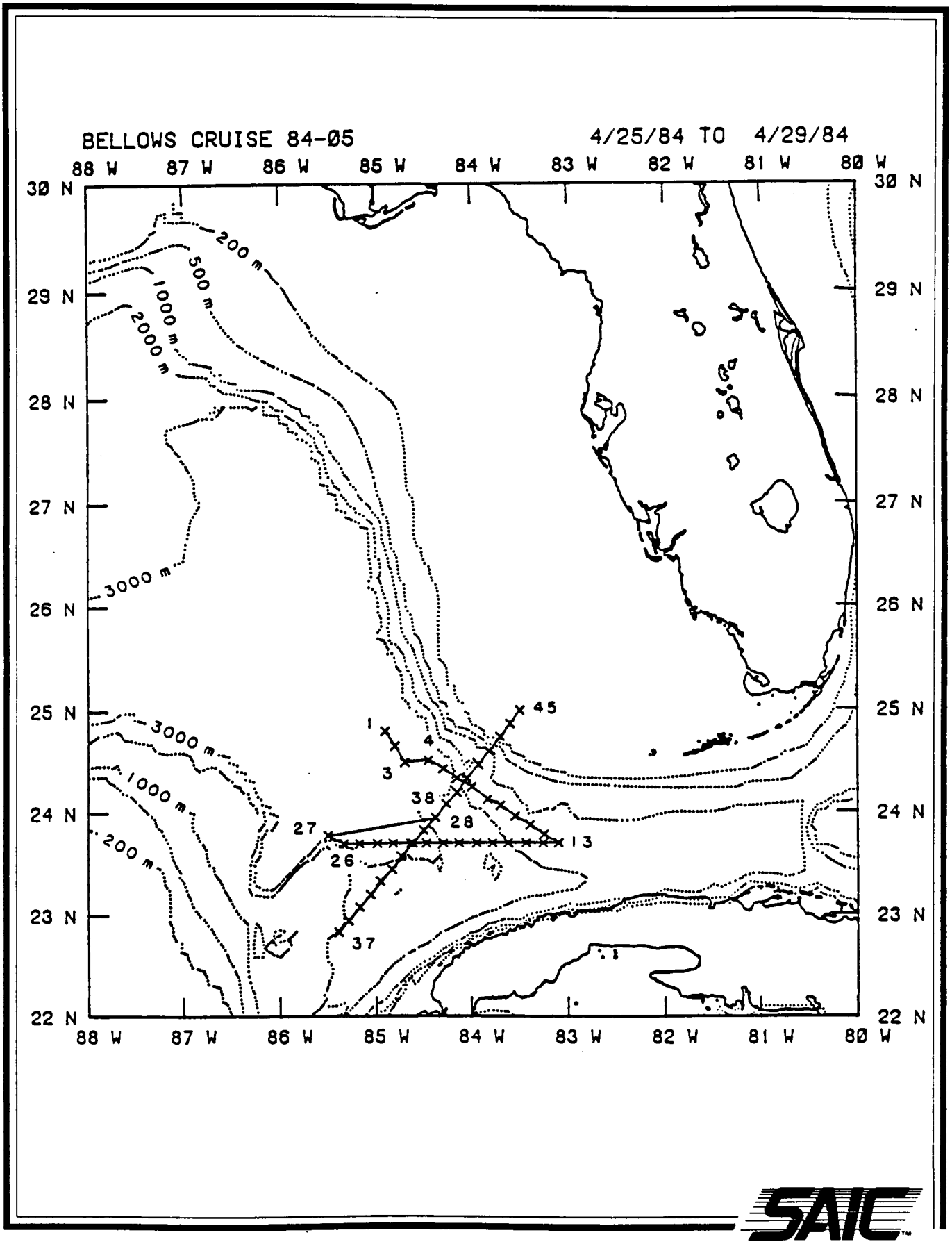
TAPE FILE NUMBER: 5


BELLOWS CRUISE 84-01
2/26/84 TO 2/26/84
87 W
86 W
85 W
84 W
83 W
82 W
29 N
28 N
27 N
26 N
25 N
24 N
23 N
200 m
500 m
1000 m
2000 m
3000 m
1
13

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

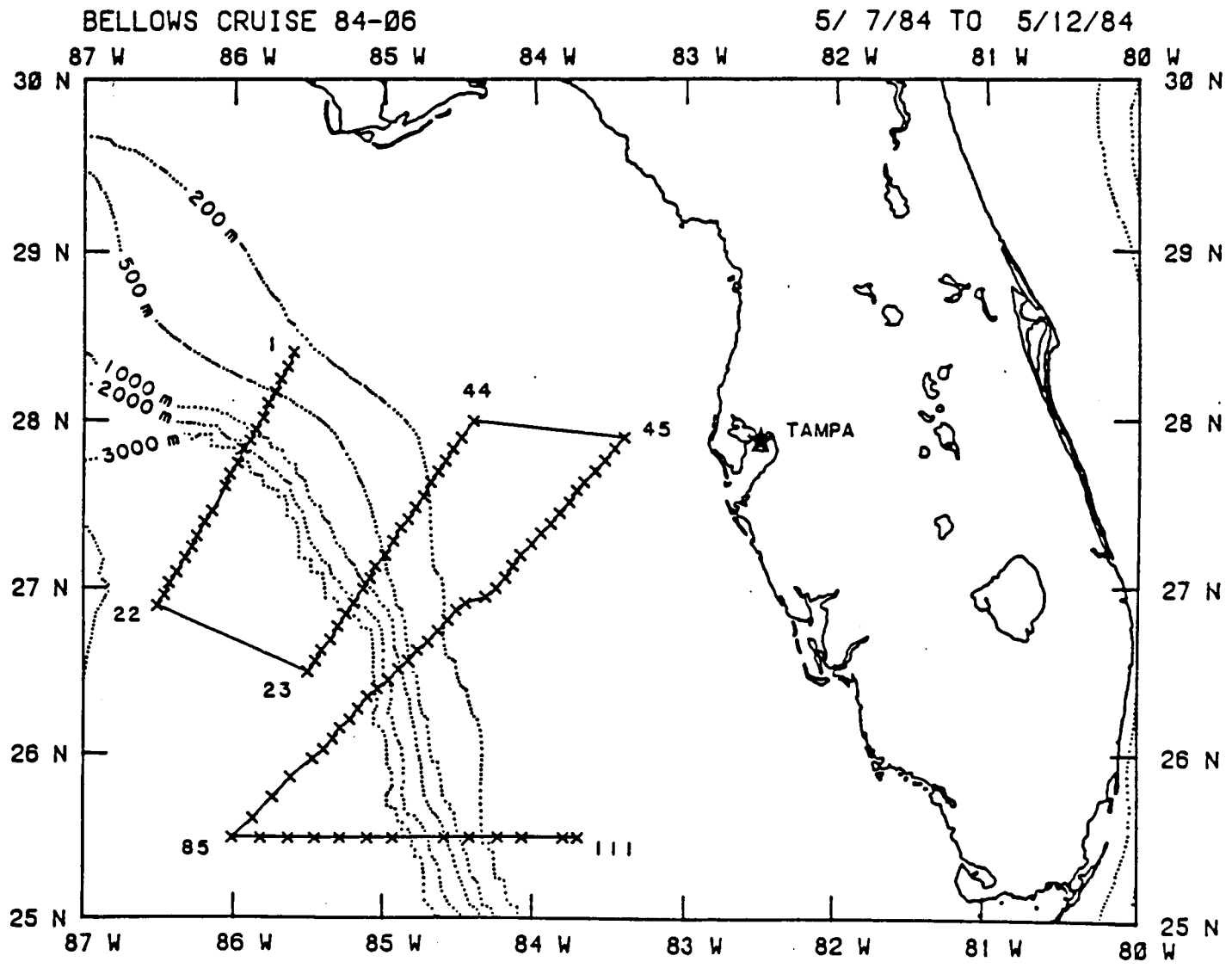
TAPE FILE NUMBER: 6


BELLOWS CRUISE 84-05
4/25/84 TO 4/29/84
88 W
87 W
86 W
85 W
84 W
83 W
82 W
81 W
80 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
200 m
500 m
1000 m
2000 m
3000 m
3000 m
1000 m
200 m
45
1
4
3
38
28
27
13
26
37

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 7


BELLOWS CRUISE 84-06
5/ 7/84 TO 5/12/84
87 W
86 W
85 W
84 W
83 W
82 W
81 W
80 W
30 N
29 N
28 N
27 N
26 N
25 N
200 m
500 m
1000 m
2000 m
3000 m
1
22
23
44
45
85
111
TAMPA

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

Volume VI: Associated SOOP Cruise Data (Part 2)

MMS Contract No. 14-12-0001-29158

Submitted by:

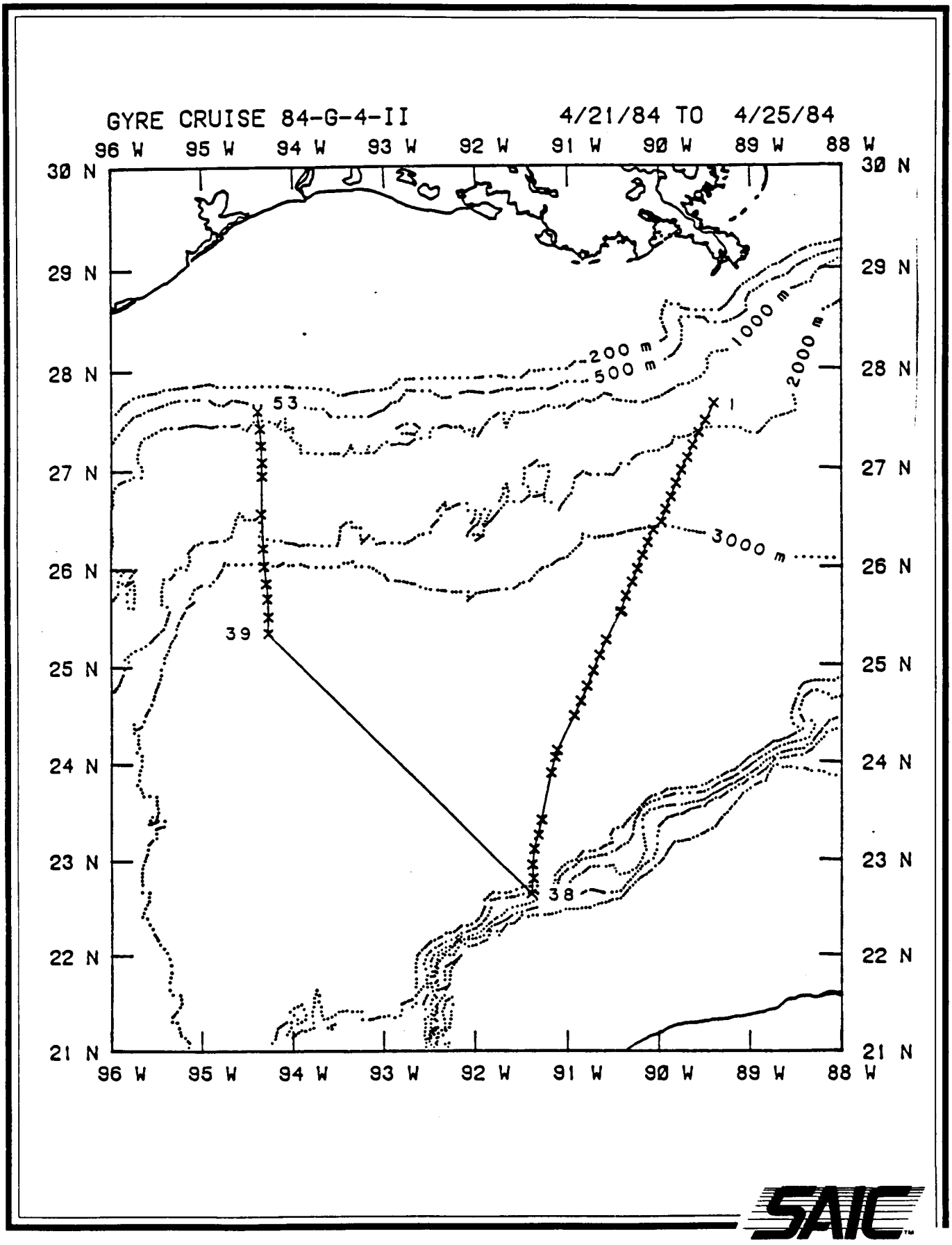
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

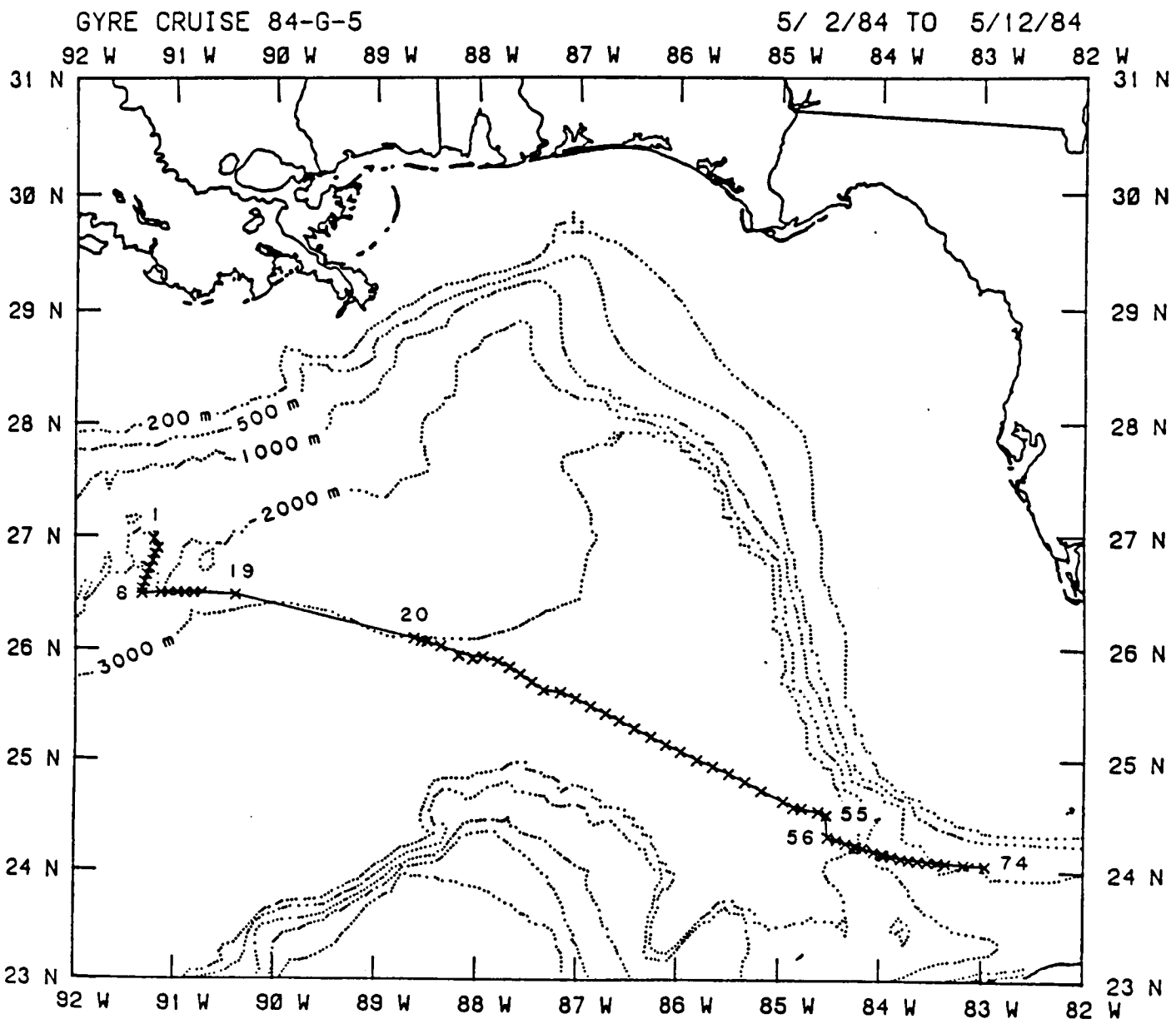
TAPE FILE NUMBER: 8


GYRE CRUISE 84-G-4-II
4/21/84 TO 4/25/84
96 W
95 W
94 W
93 W
92 W
91 W
90 W
89 W
88 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
53
1
39
38

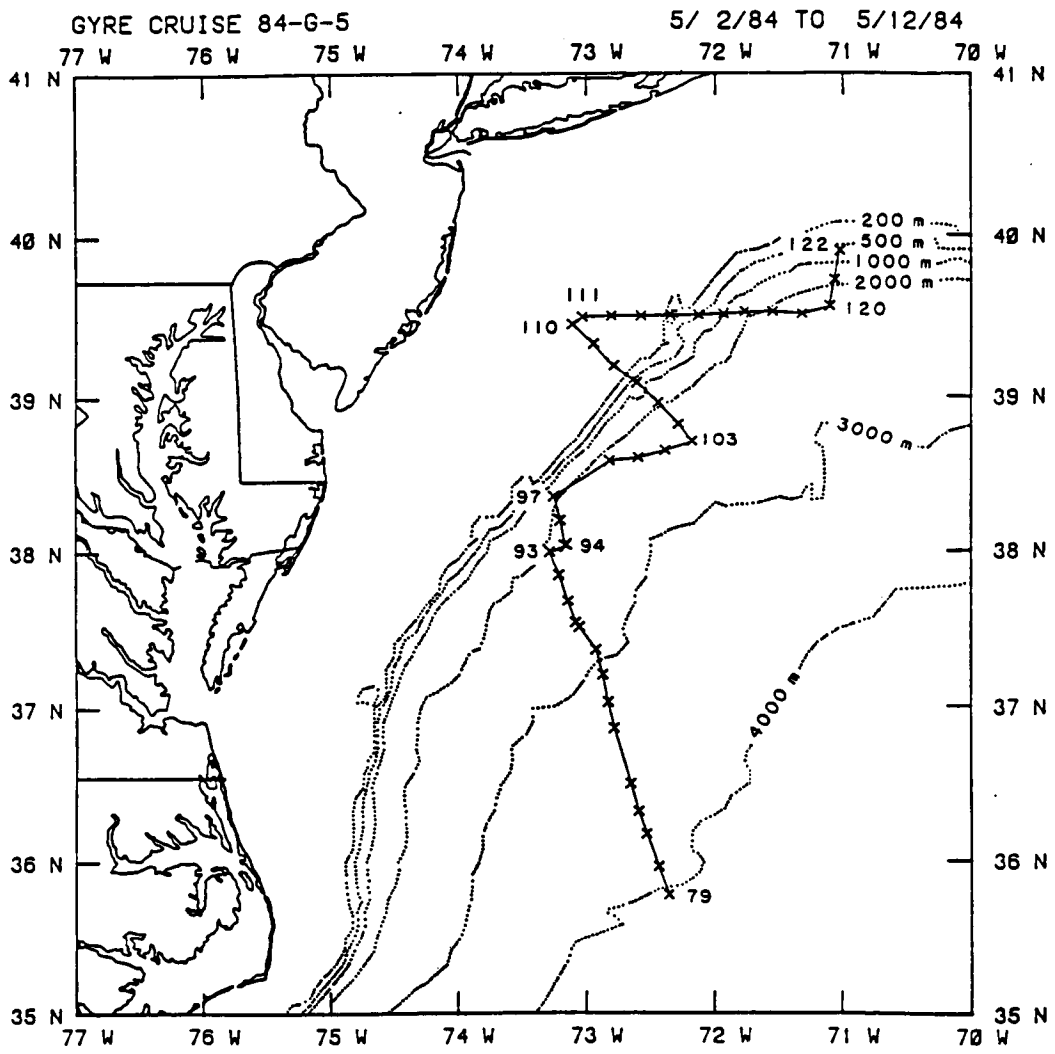
THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 9


GYRE CRUISE 84-G-5
5/ 2/84 TO 5/12/84
92 W
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
31 N
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
200 m
500 m
1000 m
2000 m
3000 m
1
6
19
20
55
56
74

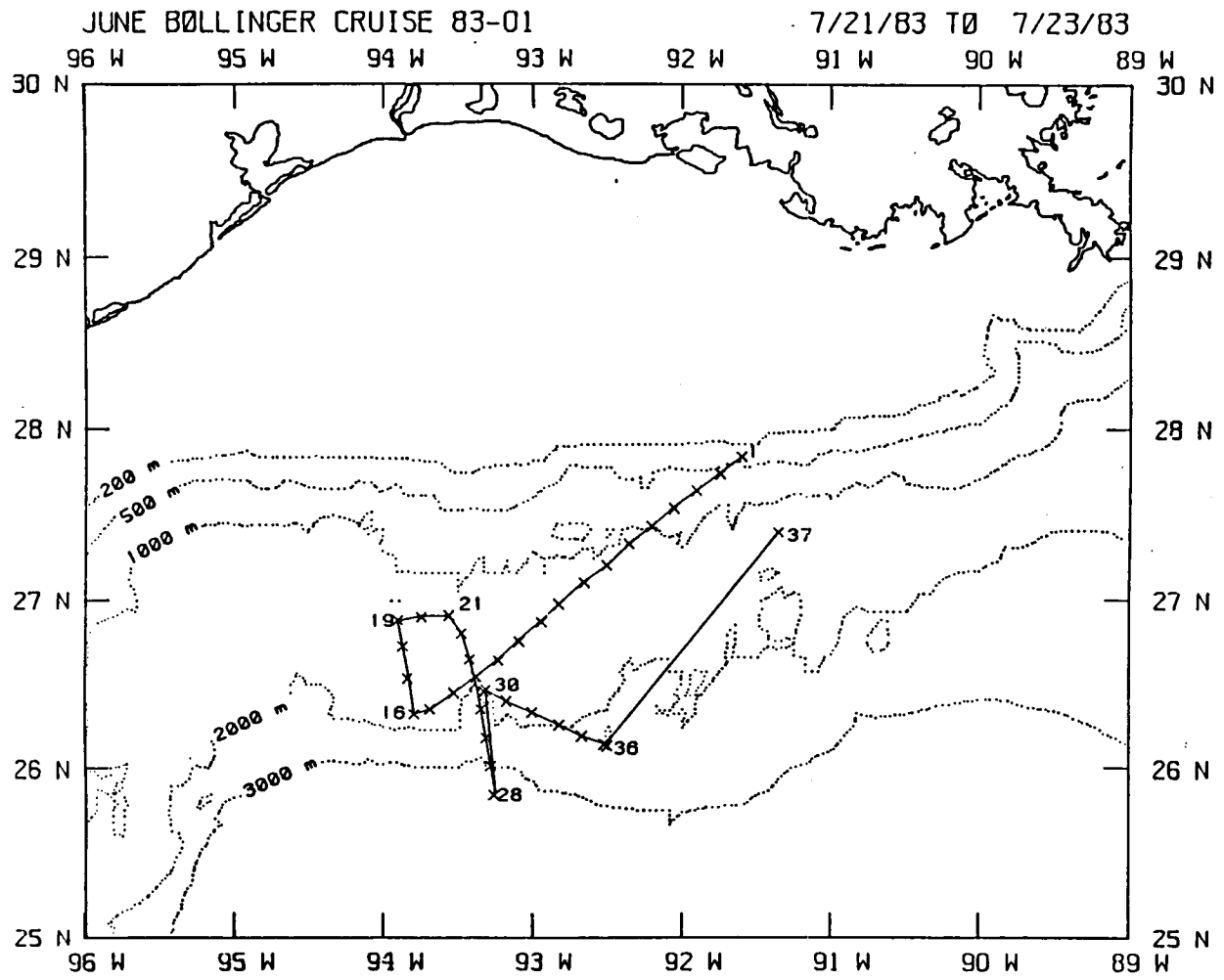
SAIC


GYRE CRUISE 84-G-5
5/ 2/84 TO 5/12/84
77 W
76 W
75 W
74 W
73 W
72 W
71 W
70 W
41 N
40 N
39 N
38 N
37 N
36 N
35 N
200 m
500 m
1000 m
2000 m
3000 m
4000 m
111
110
122
120
103
97
93
94
79

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

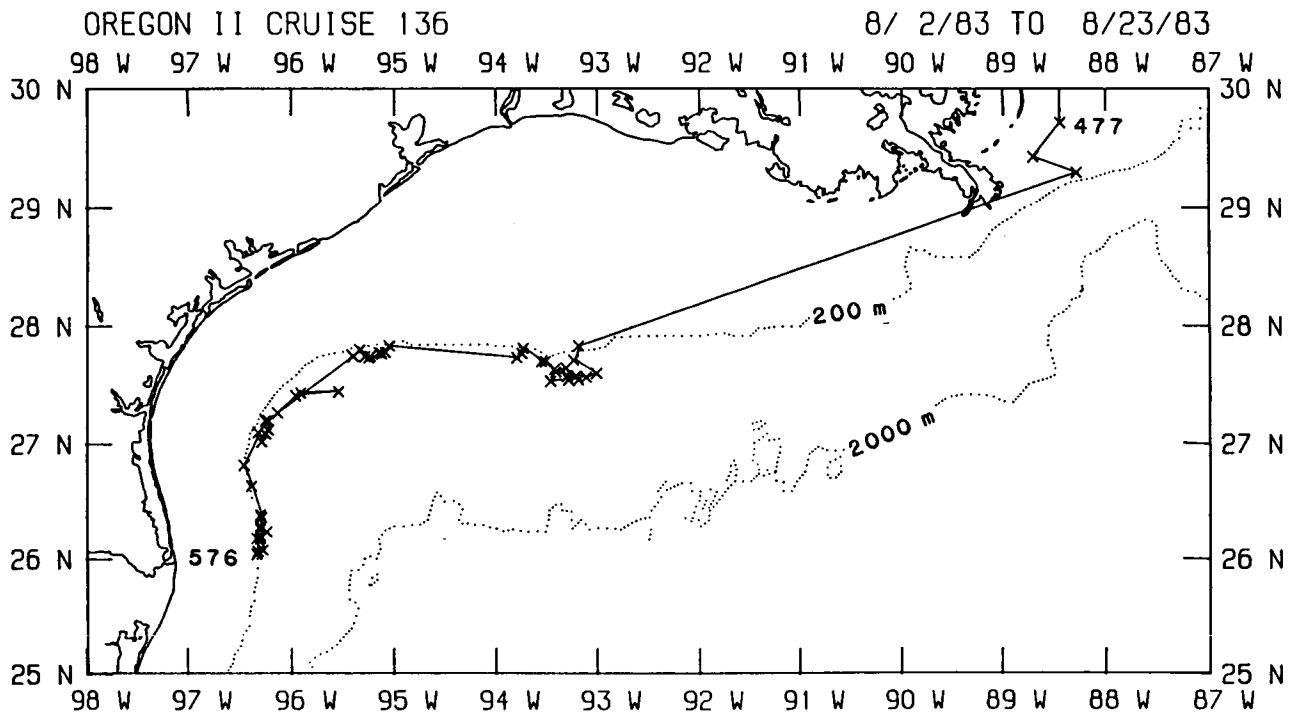
TAPE FILE NUMBER: 10


JUNE BØLLINGER CRUISE 83-01
7/21/83 TØ 7/23/83
96 W
95 W
94 W
93 W
92 W
91 W
90 W
89 W
30 N
29 N
28 N
27 N
26 N
25 N
200 m
500 m
1000 m
2000 m
3000 m
1
16
19
21
28
30
36
37

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 11


OREGON II CRUISE 136
8/ 2/83 TO 8/23/83
98 W
97 W
96 W
95 W
94 W
93 W
92 W
91 W
90 W
89 W
88 W
87 W
30 N
29 N
28 N
27 N
26 N
25 N
477
576
200 m
2000 m

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

Volume VII: Associated SOOP Cruise Data (Part 3)

MMS Contract No. 14-12-0001-29158

Submitted by:

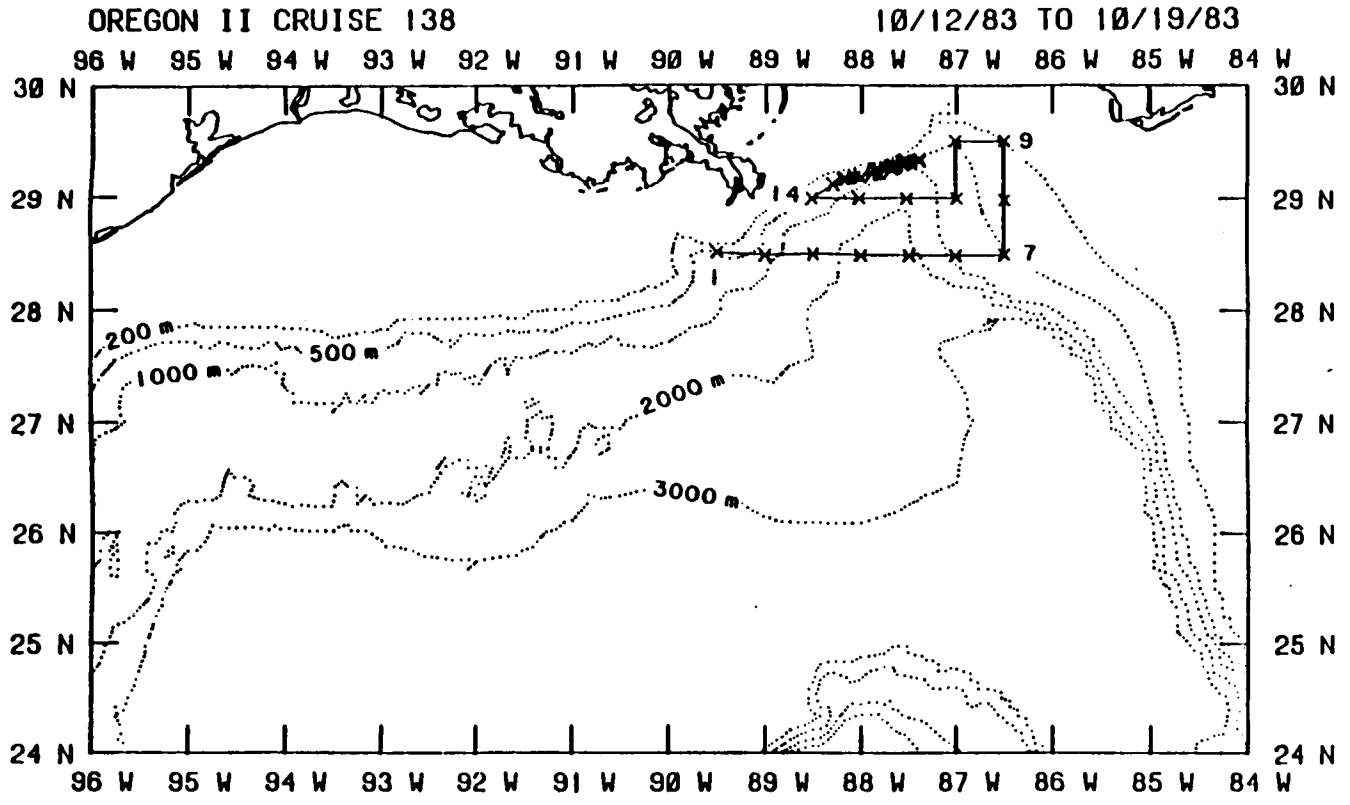
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

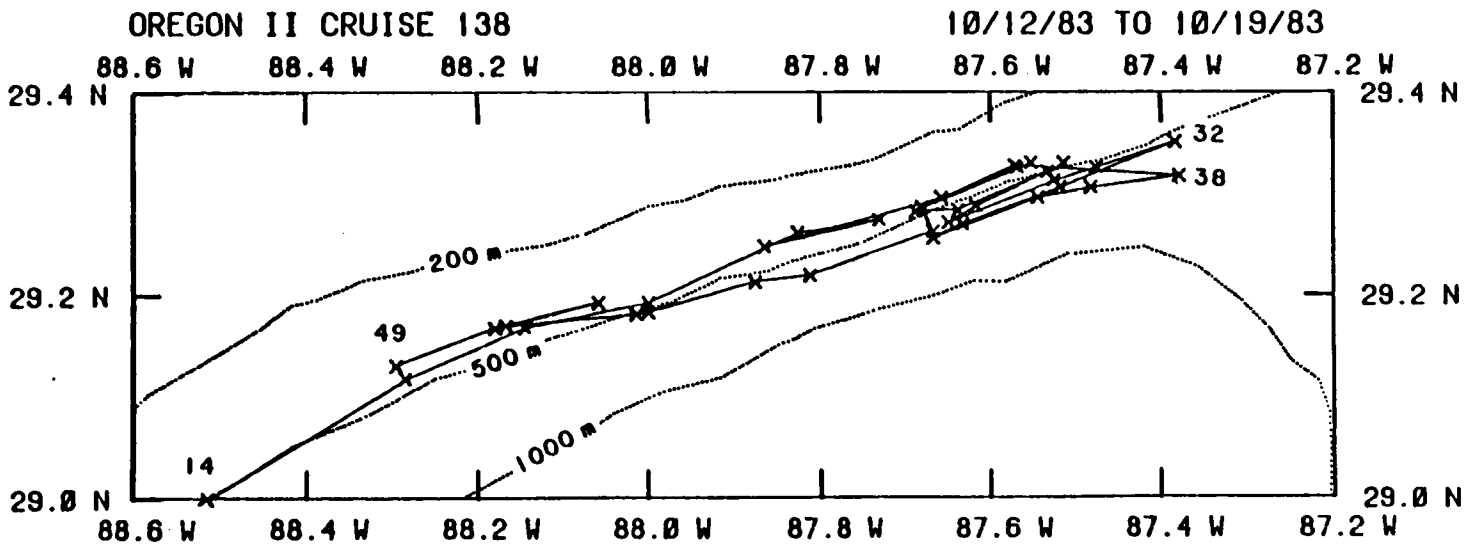
August 1989

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 12

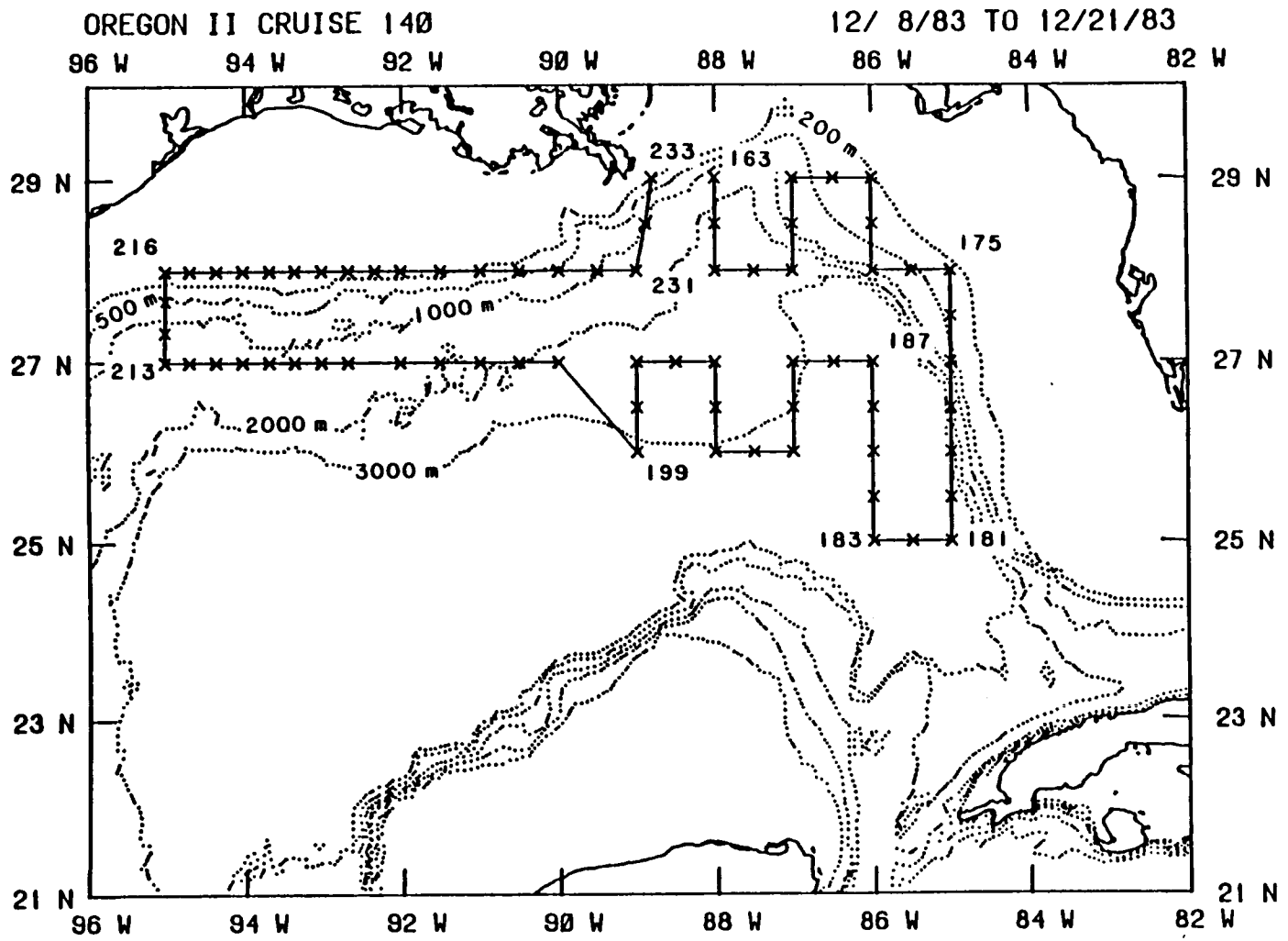

OREGON II CRUISE 138
10/12/83 TO 10/19/83
96 W 95 W 94 W 93 W 92 W 91 W 90 W 89 W 88 W 87 W 86 W 85 W 84 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
200 m
500 m
1000 m
2000 m
3000 m
14
9
7
1


OREGON II CRUISE 138
10/12/83 TO 10/19/83
88.6 W
88.4 W
88.2 W
88.0 W
87.8 W
87.6 W
87.4 W
87.2 W
29.4 N
29.2 N
29.0 N
200 m
500 m
1000 m
14
49
32
38

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

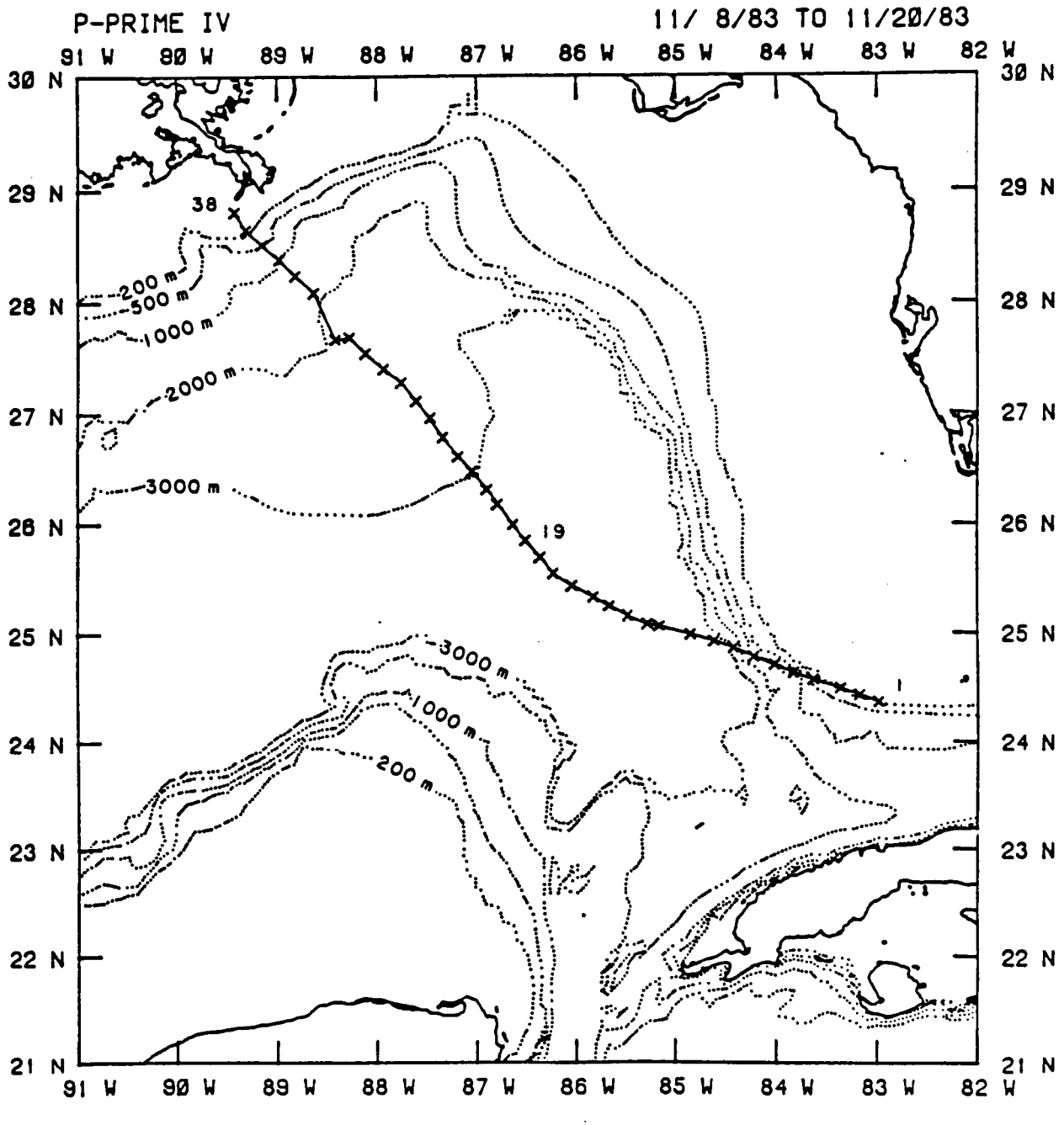
TAPE FILE NUMBER: 13

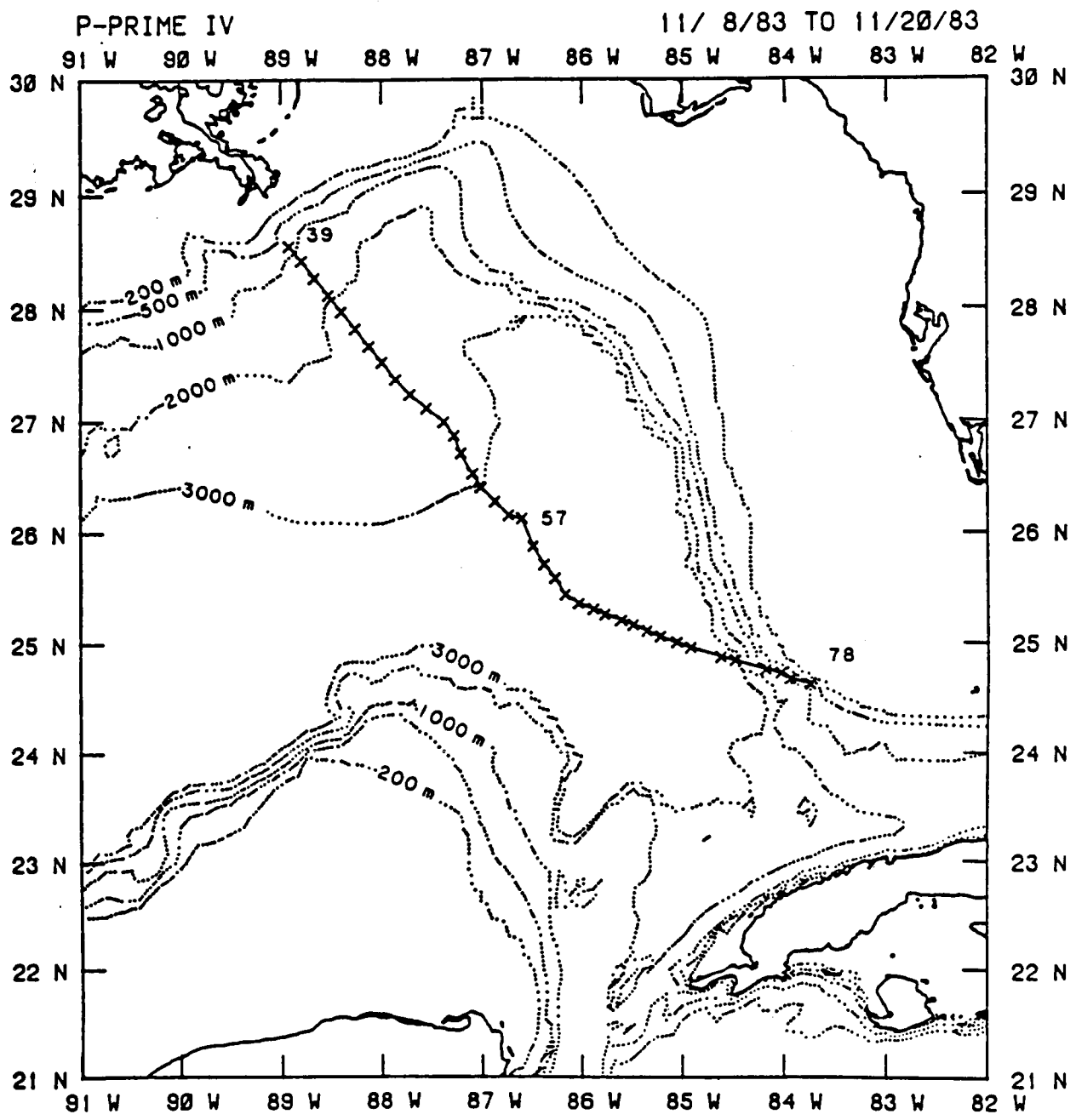

OREGON II CRUISE 140
12/ 8/83 TO 12/21/83
96 W
94 W
92 W
90 W
88 W
86 W
84 W
82 W
29 N
27 N
25 N
23 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
233
163
216
175
231
213
187
199
183
181

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 15

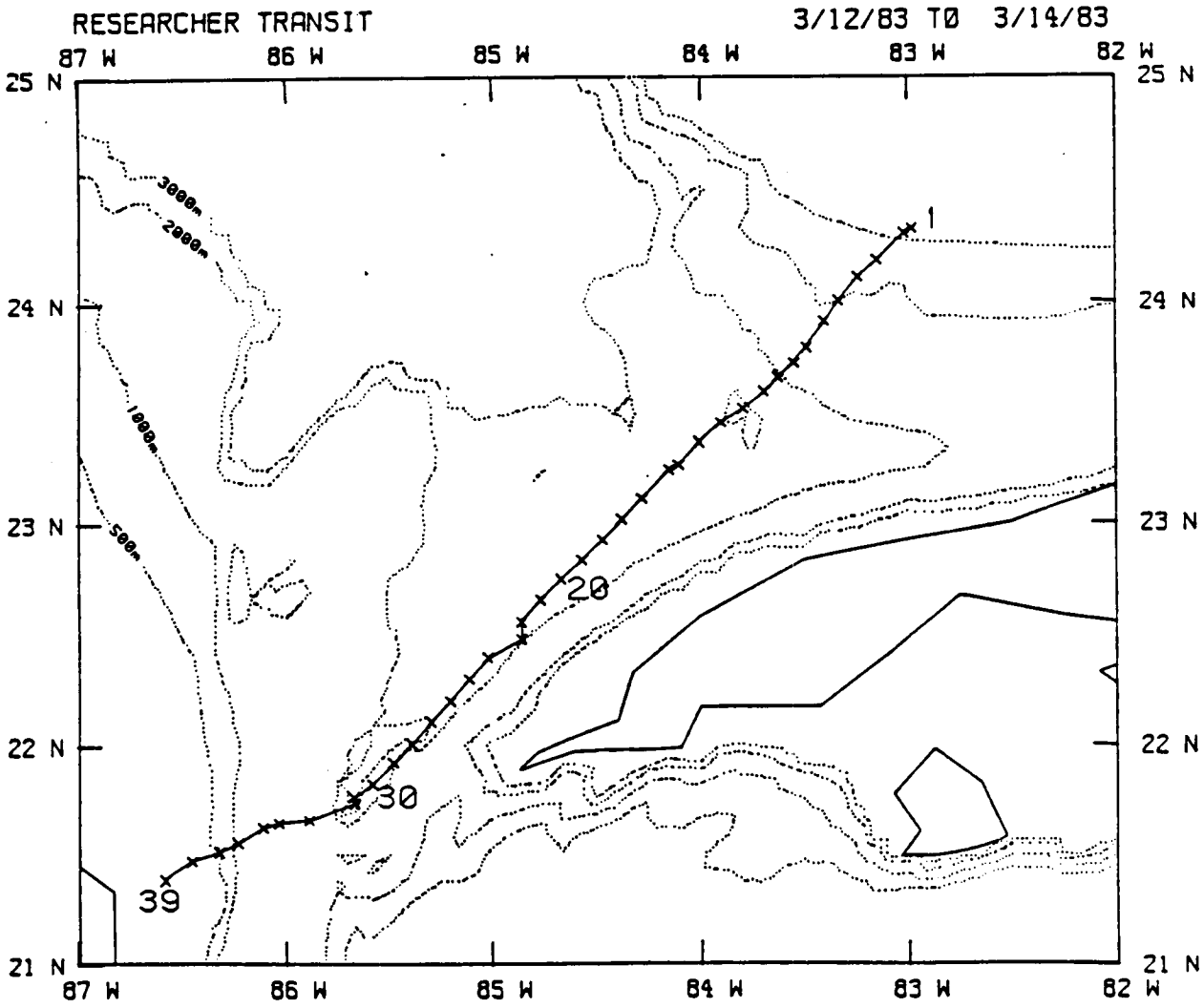

P-PRIME IV
11/ 8/83 TO 11/20/83
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
38
19
1
200 m
500 m
1000 m
2000 m
3000 m
3000 m
1000 m
200 m


P-PRIME IV
11/ 8/83 TO 11/20/83
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
39
57
78
200 m
500 m
1000 m
2000 m
3000 m
3000 m
1000 m
200 m

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 14


RESEARCHER TRANSIT
3/12/83 TØ 3/14/83
87 W
86 W
85 W
84 W
83 W
82 W
25 N
24 N
23 N
22 N
21 N
3000m
2000m
1000m
500m
1
20
30
39

Gulf of Mexico
Physical Oceanography Program
Program Years 1 & 2 - Eastern Gulf

Volume VIII: Associated SOOP Cruise Data (Part 4)

MMS Contract No. 14-12-0001-29158

Submitted by:

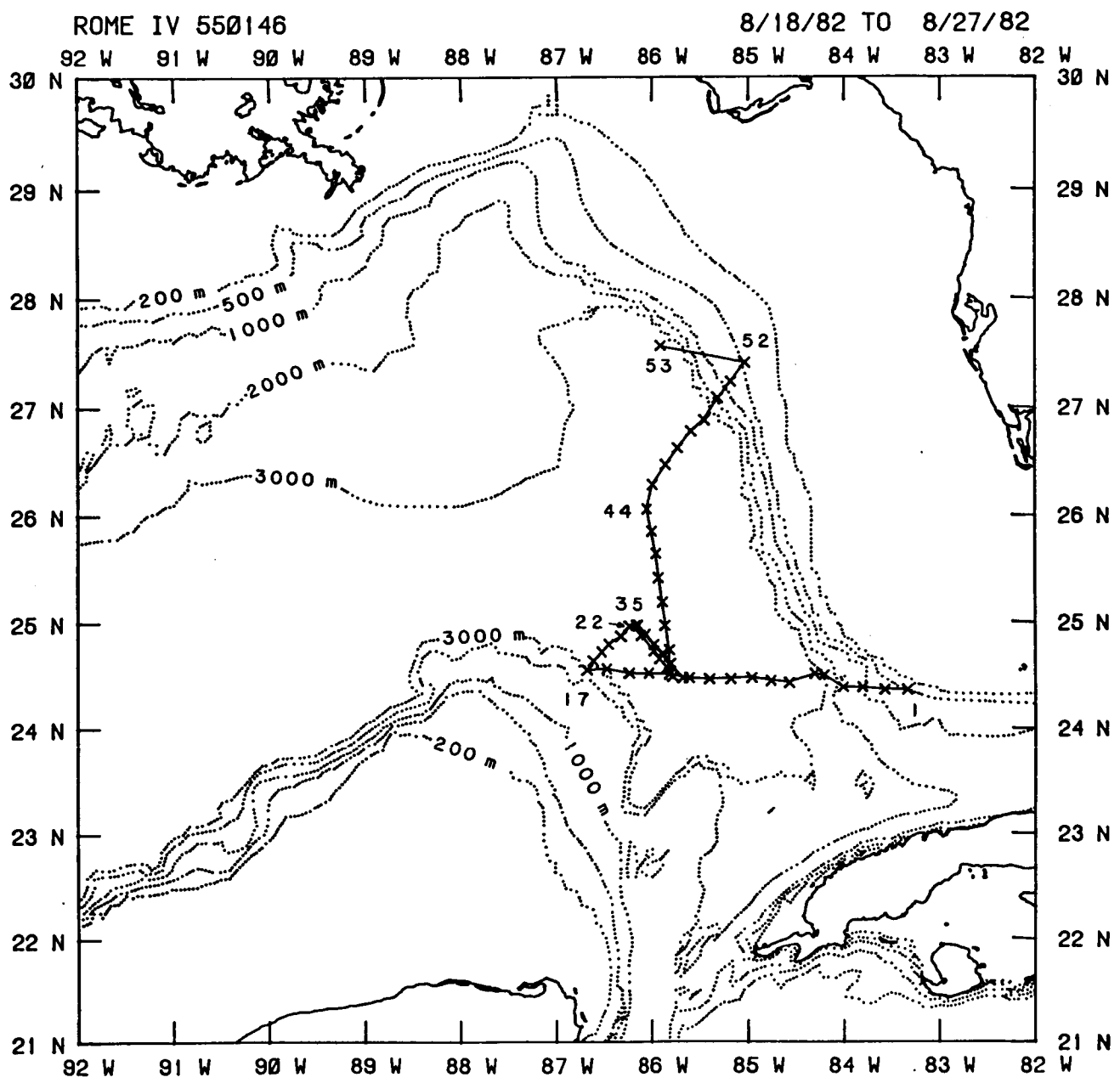
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

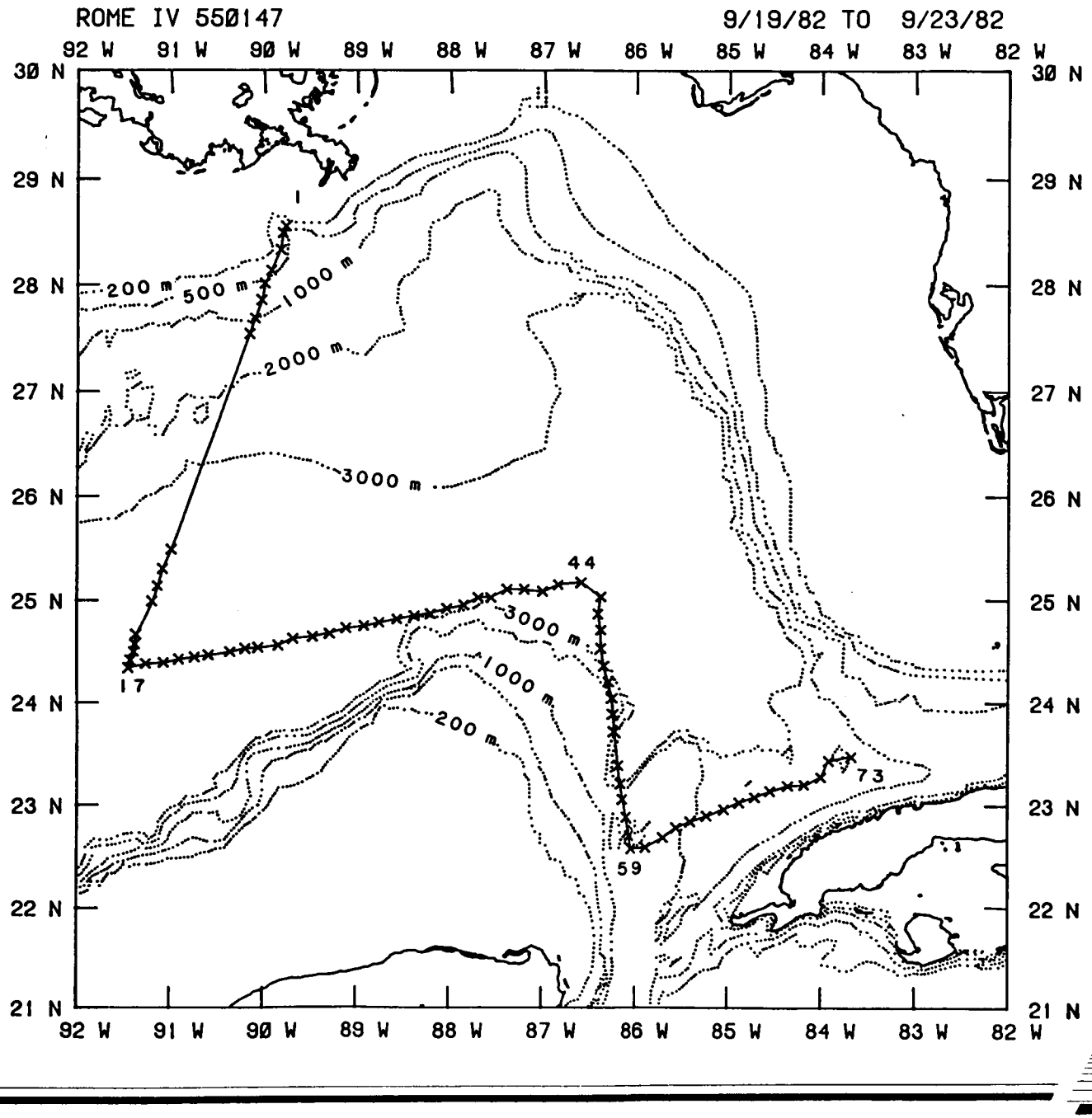
TAPE FILE NUMBER: 16


ROME IV 550146
8/18/82 TO 8/27/82
92 W
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
52
53
44
35
22
17
1

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

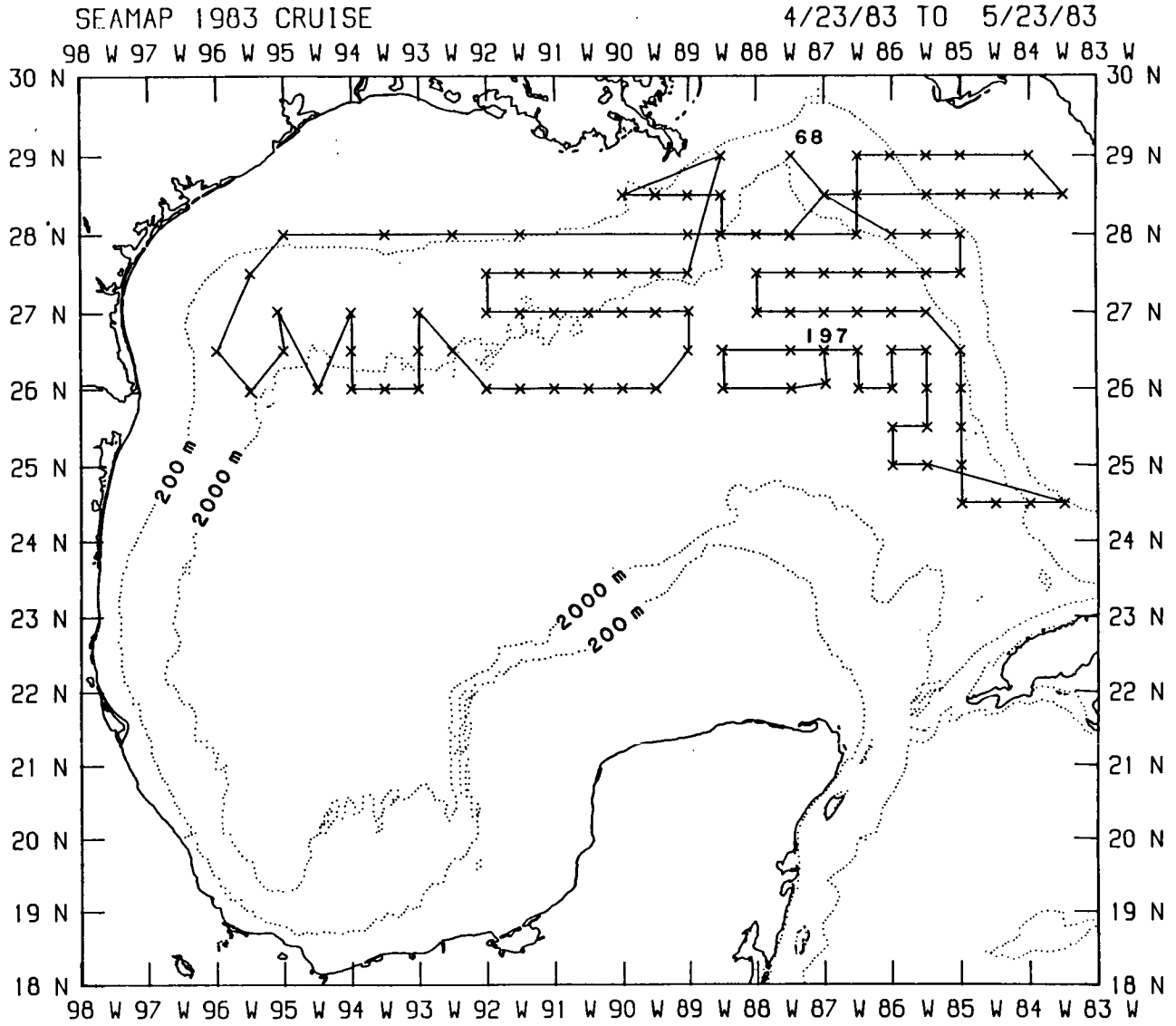
TAPE FILE NUMBER: 17


ROME IV 550147
9/19/82 TO 9/23/82
92 W
91 W
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
1
17
44
59
73

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

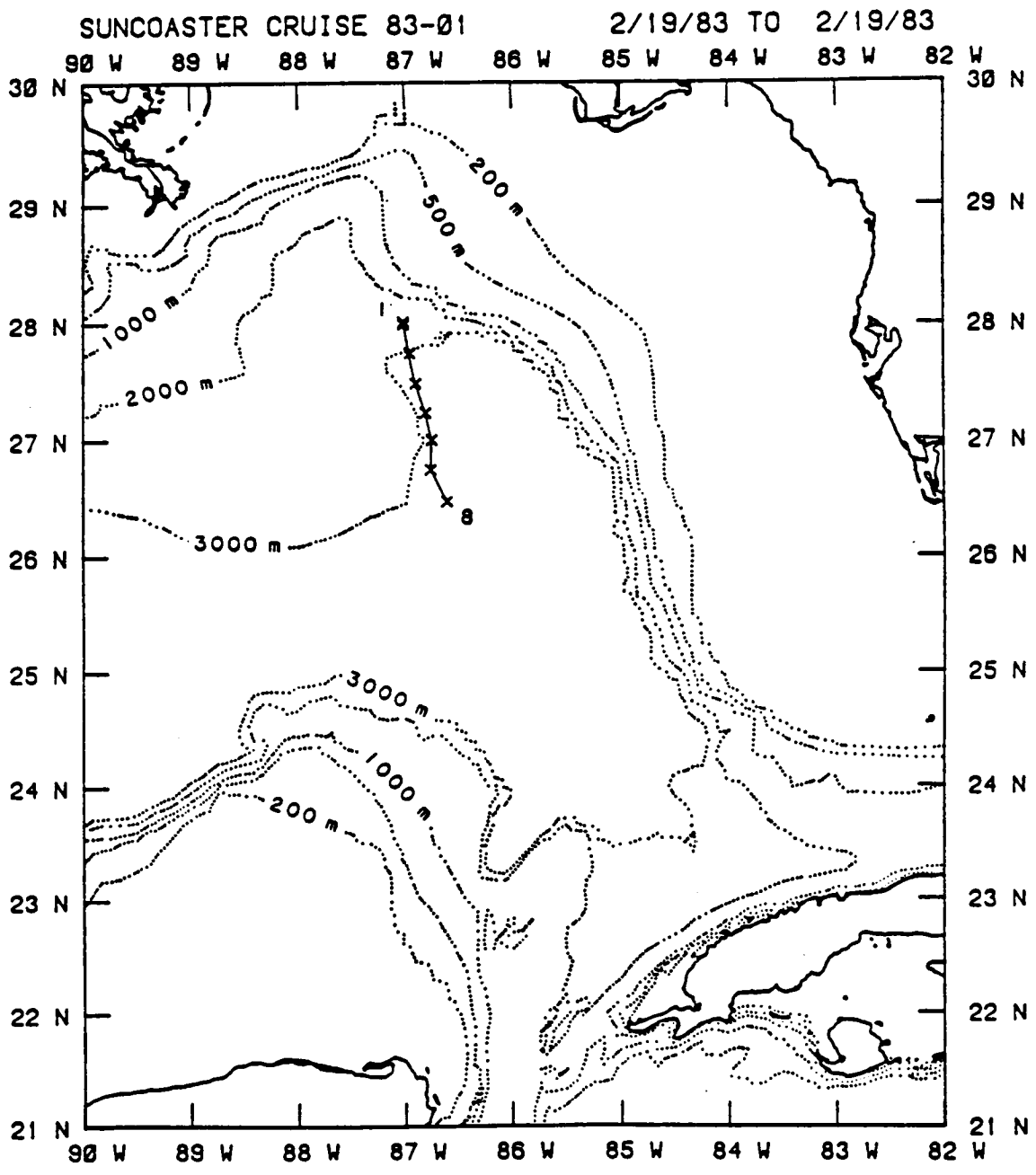
TAPE FILE NUMBER: 18


SEAMAP 1983 CRUISE
4/23/83 TO 5/23/83
98 W 97 W 96 W 95 W 94 W 93 W 92 W 91 W 90 W 89 W 88 W 87 W 86 W 85 W 84 W 83 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
20 N
19 N
18 N
68
197
200 m
2000 m
2000 m
200 m

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 19

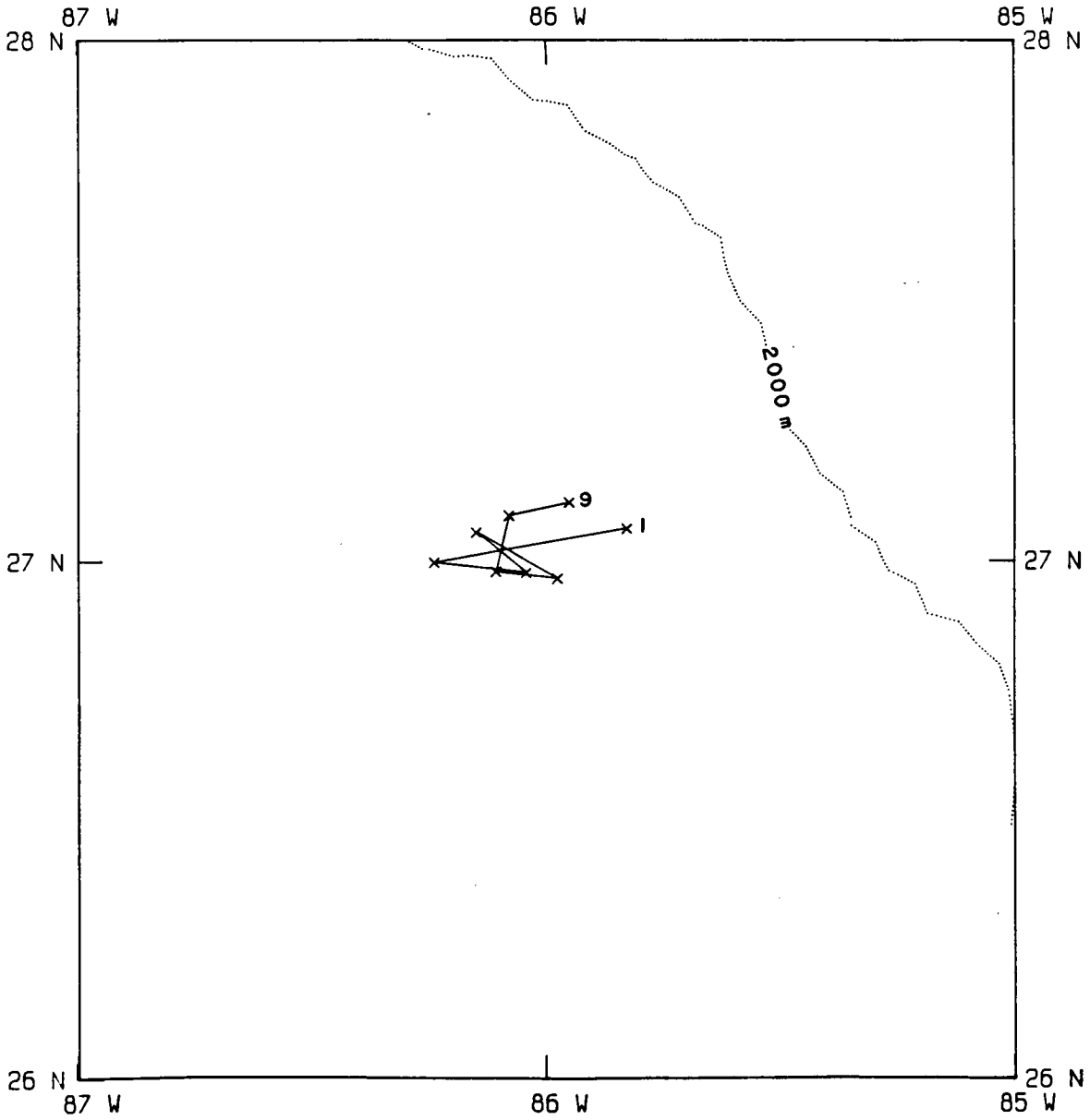

SUNCOASTER CRUISE 83-01
2/19/83 TO 2/19/83
90 W
89 W
88 W
87 W
86 W
85 W
84 W
83 W
82 W
30 N
29 N
28 N
27 N
26 N
25 N
24 N
23 N
22 N
21 N
200 m
500 m
1000 m
2000 m
3000 m
3000 m
1000 m
200 m
1
8

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 20

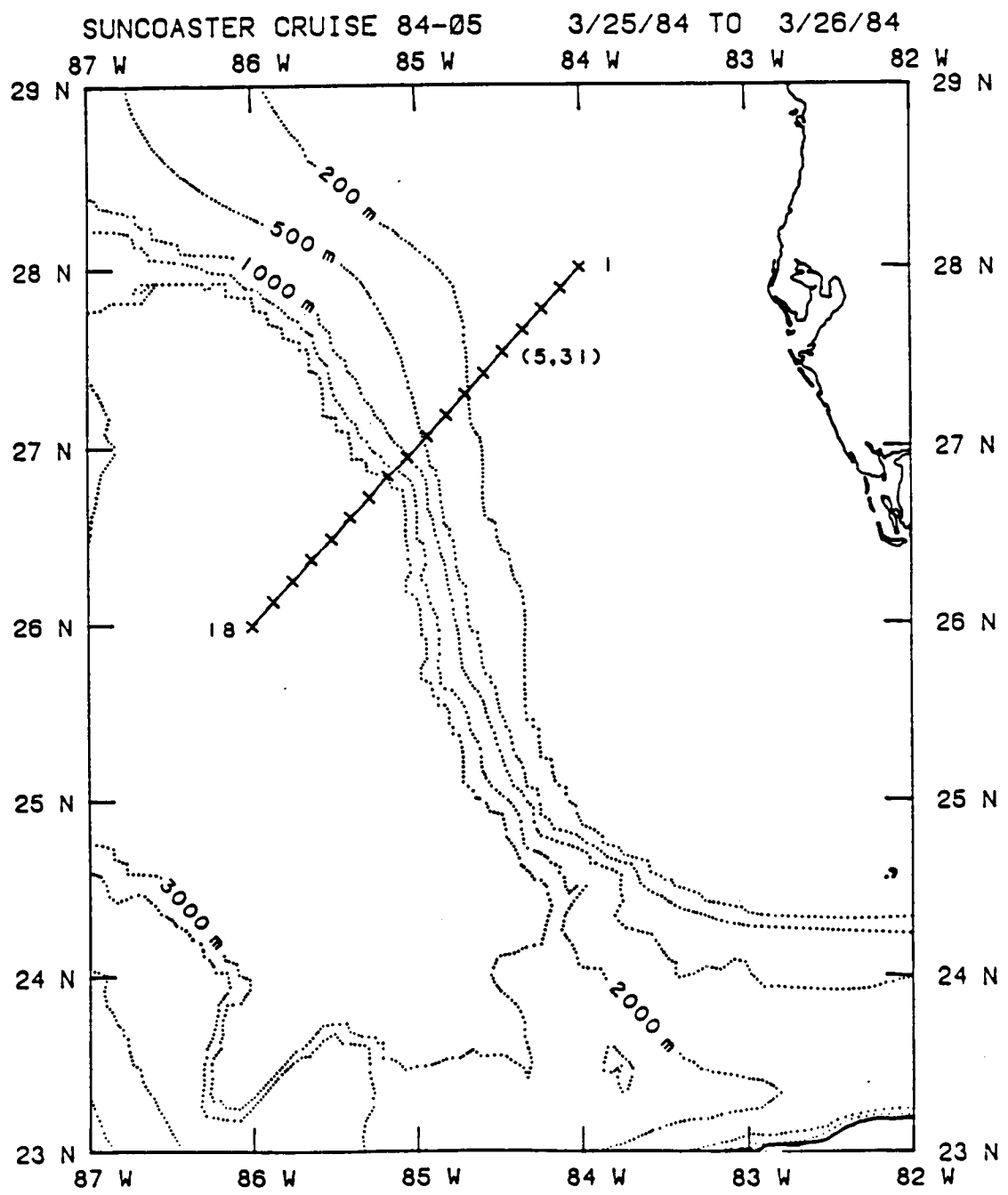
SUNCOASTER CRUISE 84-04 3/16/84 TO 3/19/84



THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

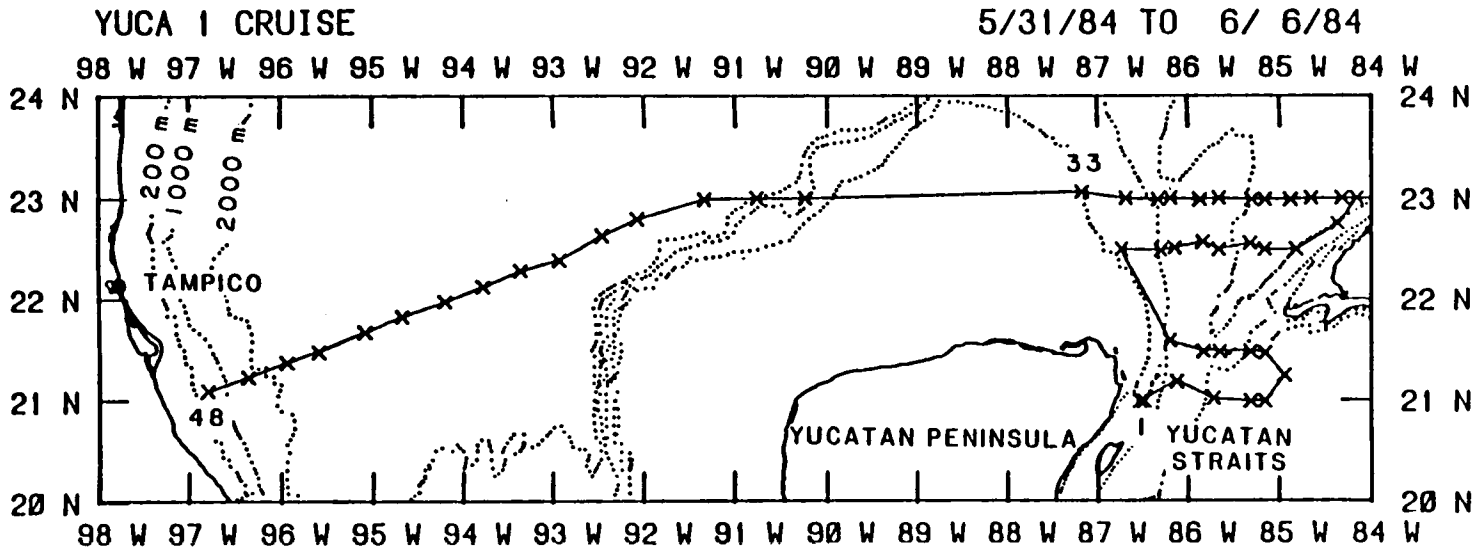
TAPE FILE NUMBER: 21

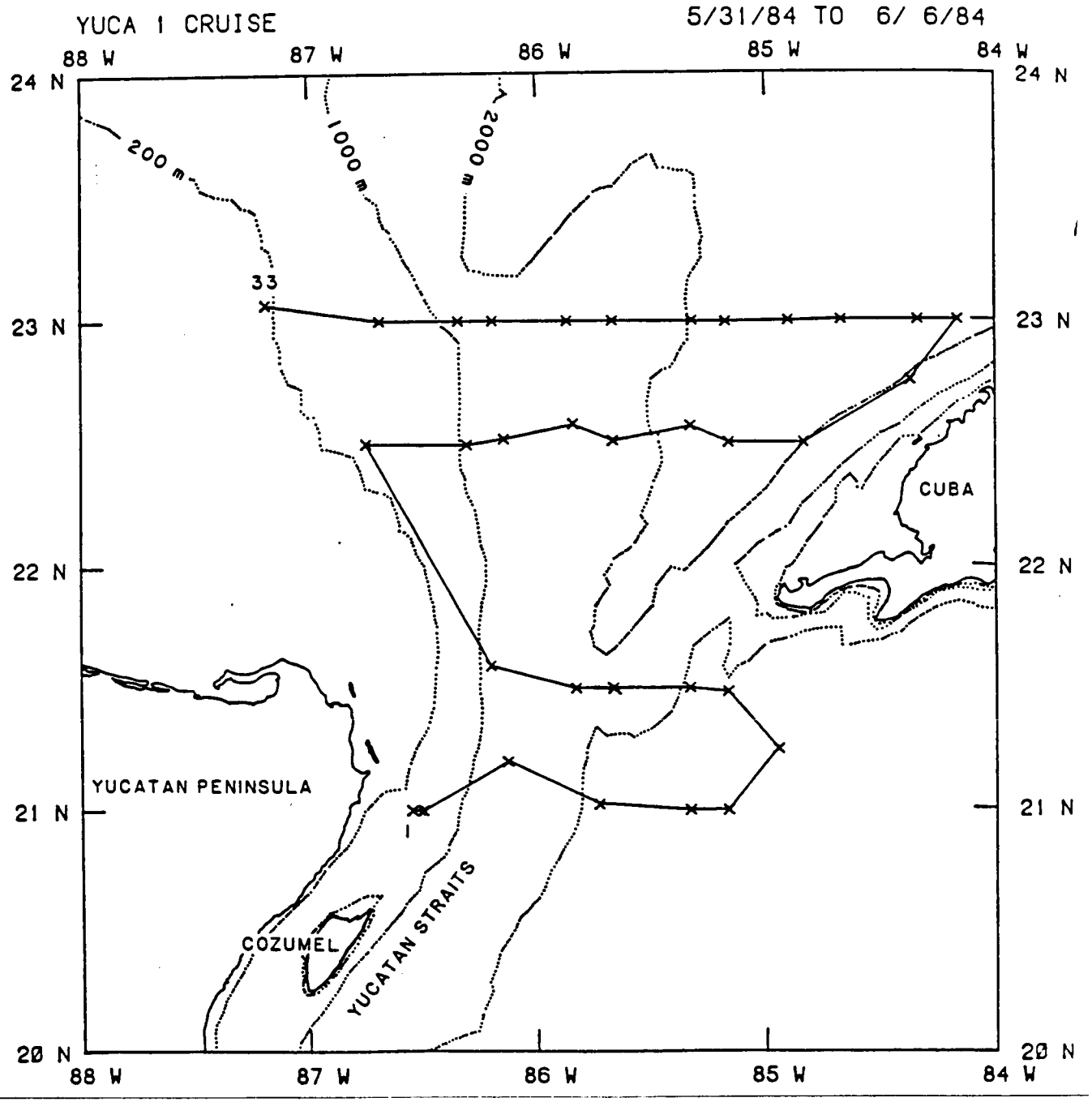

SUNCOASTER CRUISE 84-05 3/25/84 TO 3/26/84
87 W
86 W
85 W
84 W
83 W
82 W
29 N
28 N
27 N
26 N
25 N
24 N
23 N
200 m
500 m
1000 m
2000 m
3000 m
1
(5,31)
18

THIS DATA STORED ON SAIC/RALEIGH TAPE REEL AS FOLLOWS:

TAPE NUMBER: SP1205

TAPE FILE NUMBER: 22


YUCA 1 CRUISE
5/31/84 TO 6/ 6/84
98 W 97 W 96 W 95 W 94 W 93 W 92 W 91 W 90 W 89 W 88 W 87 W 86 W 85 W 84 W
24 N
23 N
22 N
21 N
20 N
200 M
1000 M
2000 M
TAMPICO
48
33
YUCATAN PENINSULA
YUCATAN STRAITS


YUCA 1 CRUISE
5/31/84 TO 6/ 6/84
88 W
87 W
86 W
85 W
84 W
24 N
23 N
22 N
21 N
20 N
200 m
1000 m
2000 m
33
CUBA
YUCATAN PENINSULA
COZUMEL
YUCATAN STRAITS

Science Applications International Corporation

October 12, 1989

Dr. Murray Brown
Minerals Management Service/LE-4
1201 Elmwood Park Blvd.
New Orleans, LA 70123

Dear Murray:

Enclosed please find the "reduced" information you requested documenting Science Applications International Corporation's (SAIC) submittal of the remainder of the data from the Gulf of Mexico Physical Oceanography Program, Years 1-5. In summary, the following information has been submitted to the National Oceanographic Data Center (NODC):

- Ametek-Straza (hull-mounted ADCP) data from Program Years 1-2,
- All Ship-of-Opportunity data for Years 1-5, which had not previously been covered under earlier NODC submissions,
- Current Meter, Hydrographic, AXBT and IES data from Program Year 5.

With the acceptance of these data by the NODC, SAIC's contractual obligations for data archiving should be complete for Years 1-5 of the Gulf of Mexico Physical Oceanography Program. Please contact us should you have any questions regarding this or any earlier NODC submissions.

Sincerely,

Bob

Robert J. Wayland
Senior Meteorologist

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

Science Applications International Corporation

October 12, 1989

Mr. Francis Mitchell
NOAA/NODC
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Mitch:

Enclosed please find one (1) nine-track magnetic data tape containing the Ametek-Straza (bottom-mounted ADCP) data collected during Years 1 and 2 of the Gulf of Mexico Physical Oceanography Program. All other components of this program have been previously forwarded to the National Oceanographic Data Center (NODC). This particular data set was collected by the University of Miami as part of the total program. The program 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) One (1) data tape:
1 - 2400 foot tape containing the ADCP data in NODC Format 004. Please note that this tape is from the University of Miami and is recorded at 6250 BPI, unlike SAIC's normal procedure.

(2) Appropriate NODC documentation for each data type submitted.

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

Sincerely,

Bob

Robert J. Wayland
Senior Meteorologist

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

	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
Martime 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
Years 1-2 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

CF8405 [Ametek/Straza ADCP Data]

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	USA	USA	05/05/84	05/18/84

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?)

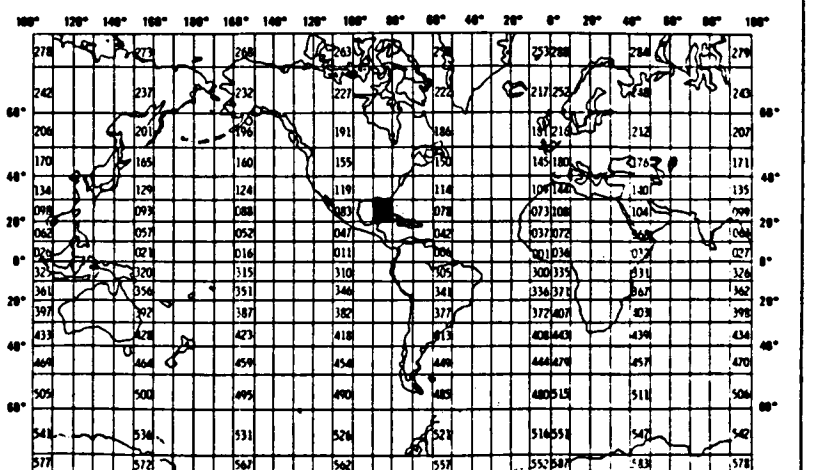
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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

GENERAL AREA



Science Applications International Corporation

October 12, 1989

Mr. Francis Mitchell
NOAA/NODC
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Francis:

Enclosed please find two (2) nine-track magnetic data tapes containing all Ship-of-Opportunity (SOOP) data collected as part of Years 1-5 of the Gulf of Mexico Physical Oceanography Program, which has not been previously submitted to the National Oceanographic Data Center (NODC). This work was funded under Minerals Management Service Contract Number 14-12-0001-29158, which was awarded to Science Applications International Corporation. The following items have been enclosed:

(1) Two (2) data tapes:
1 - 2400 foot tape containing Hydrographic data in NODC Format 022,
1 - 2400 foot tape containing Hydrographic data in NODC Format 022.

(2) Nine (9) printed volumes detailing the information stored on each tape.

(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,
Rebecca J. Weber
Rebecca J. Weber
Data Analyst

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

		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 Years 1-5 (GOMPOP)
(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

** SEE ATTACHED DATA LISTING SHEETS **

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	USA	USA	03/05/83	3/26/88

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?)

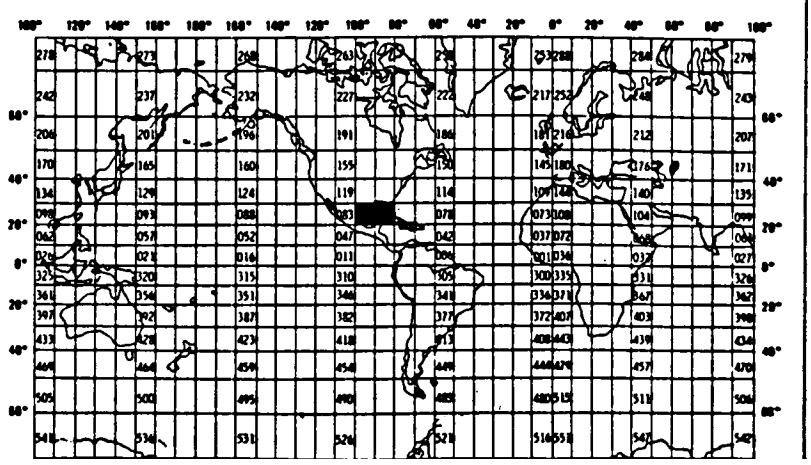
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh NC 27606

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

GENERAL AREA



SOOP Data
Years 1 - 5

Tape #1
(SP1221)

OB01	Oyster Bay Cruise 8301	File #1
OB02	Oyster Bay Cruise 8302	File #2
LH01	Lion Heart Cruise 8301	File #3
NW8301	Nordic Wasa Cruise 8301	File #4
NW8302	Nordic Wasa Cruise 8302	File #5
NW8303	Nordic Wasa Cruise 8303	File #6
NW8304	Nordic Wasa Cruise 8304	File #7
NW8305	Nordic Wasa Cruise 8305	File #8
NW8306	Nordic Wasa Cruise 8306	File #9
NW8307	Nordic Wasa Cruise 8307	File #10
NW8308	Nordic Wasa Cruise 8308	File #11
NW8309	Nordic Wasa Cruise 8309	File #12
NW8310	Nordic Wasa Cruise 8310	File #13
NW8311	Nordic Wasa Cruise 8311	File #14
NW8401	Nordic Wasa Cruise 8401	File #15
NW8402	Nordic Wasa Cruise 8402	File #16
NW8403	Nordic Wasa Cruise 8403	File #17
NW8404	Nordic Wasa Cruise 8404	File #18
NW8405	Nordic Wasa Cruise 8405	File #19
NW8406	Nordic Wasa Cruise 8406	File #20
N18402	Nestor I Cruise 8402	File #21
N18403	Nestor I Cruise 8403	File #22
N18404	Nestor I Cruise 8404	File #23
N18405	Nestor I Cruise 8405	File #24
N18406	Nestor I Cruise 8406	File #25
N18407	Nestor I Cruise 8407	File #26
N18408	Nestor I Cruise 8408	File #27
N18409	Nestor I Cruise 8409	File #28
N18410	Nestor I Cruise 8410	File #29
N18411	Nestor I Cruise 8411	File #30
N18412	Nestor I Cruise 8412	File #31
N18414	Nestor I Cruise 8414	File #32
N18415	Nestor I Cruise 8415	File #33
N18416	Nestor I Cruise 8416	File #34
N18501	Nestor I Cruise 8501	File #35
N18502	Nestor I Cruise 8502	File #36
N18503	Nestor I Cruise 8503	File #37
N18504	Nestor I Cruise 8504	File #38
N18505	Nestor I Cruise 8505	File #39
N18506	Nestor I Cruise 8506	File #40
N18507	Nestor I Cruise 8507	File #41
N18508	Nestor I Cruise 8508	File #42
N18509	Nestor I Cruise 8509	File #43

N18510	Nestor I Cruise 8510	File #44
AM8501	M/V Ambassador Cruise 8501	File #45
AM8502	M/V Ambassador Cruise 8502	File #46
AM8504	M/V Ambassador Cruise 8504	File #47
AM8505	M/V Ambassador Cruise 8505	File #48
AM8506	M/V Ambassador Cruise 8506	File #49
AM8507	M/V Ambassador Cruise 8507	File #50
AM8508	M/V Ambassador Cruise 8508	File #51
AM8509	M/V Ambassador Cruise 8509	File #52
AM8510	M/V Ambassador Cruise 8510	File #53
AM8511	M/V Ambassador Cruise 8511	File #54
AM8512	M/V Ambassador Cruise 8512	File #55
AM8513	M/V Ambassador Cruise 8513	File #56
AM8601	M/V Ambassador Cruise 8601	File #57
AM8602	M/V Ambassador Cruise 8602	File #58
AM8603	M/V Ambassador Cruise 8603	File #59
AM8604	M/V Ambassador Cruise 8604	File #60
AM8605	M/V Ambassador Cruise 8605	File #61
AM8606	M/V Ambassador Cruise 8606	File #62
AM8607	M/V Ambassador Cruise 8607	File #63
AM8608	M/V Ambassador Cruise 8608	File #64
AM8609	M/V Ambassador Cruise 8609	File #65
AM8610	M/V Ambassador Cruise 8610	File #66
AM8611	M/V Ambassador Cruise 8611	File #67
AM8612	M/V Ambassador Cruise 8612	File #68
AM8613	M/V Ambassador Cruise 8613	File #69
AM8614	M/V Ambassador Cruise 8614	File #70
AM8615	M/V Ambassador Cruise 8615	File #71
AM8616	M/V Ambassador Cruise 8616	File #72
AM8617	M/V Ambassador Cruise 8617	File #73
AM8618	M/V Ambassador Cruise 8618	File #74
AM8619	M/V Ambassador Cruise 8619	File #75
AM8620	M/V Ambassador Cruise 8620	File #76
AM8621	M/V Ambassador Cruise 8621	File #77
AM8622	M/V Ambassador Cruise 8622	File #78
AM8800	M/V Ambassador Cruise 8800	File #79
AM8802	M/V Ambassador Cruise 8802	File #80
AM8803	M/V Ambassador Cruise 8803	File #81
AM8804	M/V Ambassador Cruise 8804	File #82
AM8806	M/V Ambassador Cruise 8806	File #83
SH8501	Stena Hispania Cruise 8501	File #84
SH8502	Stena Hispania Cruise 8502	File #85
SH8503	Stena Hispania Cruise 8503	File #86
SH8504	Stena Hispania Cruise 8504	File #87
SH8505	Stena Hispania Cruise 8505	File #88
SH8506	Stena Hispania Cruise 8506	File #89
SH8507	Stena Hispania Cruise 8507	File #90
SH8508	Stena Hispania Cruise 8508	File #91
AL8501	B/O Altair Cruise 8501	File #92
AL8502	B/O Altair Cruise 8502	File #93
AL8503	B/O Altair Cruise 8503	File #94

EJ8601	Exxon Jamestown Cruise 8601	File #95
EJ8602	Exxon Jamestown Cruise 8602	File #96
SN8601	M/V Senator Cruise 8601	File #97
SN8602	M/V Senator Cruise 8602	File #98
SN8603	M/V Senator Cruise 8603	File #99
SN8604	M/V Senator Cruise 8604	File #100
SN8605	M/V Senator Cruise 8605	File #101
SN8606	M/V Senator Cruise 8606	File #102
SN8607	M/V Senator Cruise 8607	File #103

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

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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
Years 1-5 (GOMPOP)

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

** SEE ATTACHED SHEETS **

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	USA	USA	01/04/87	07/26/88

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?)

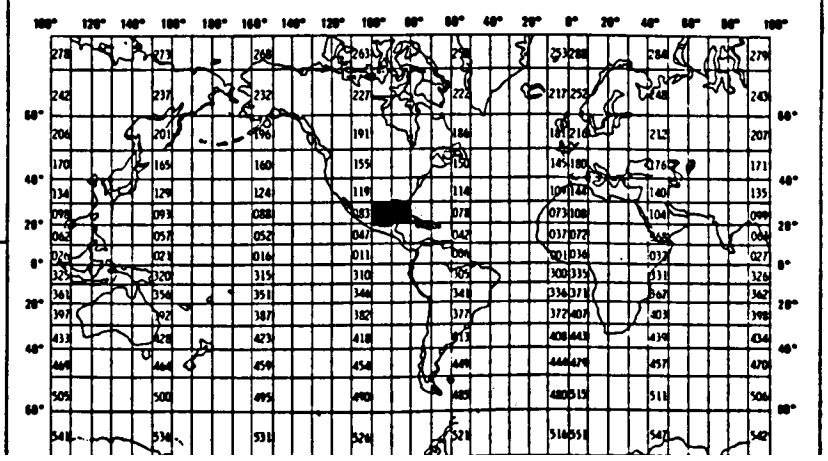
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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

GENERAL AREA



SOOP Data
Years 1 - 5

Tape #2
(SP1222)

SN8701	M/V Senator Cruise 8701	File #1
SN8702	M/V Senator Cruise 8702	File #2
SN8703	M/V Senator Cruise 8703	File #3
SN8704	M/V Senator Cruise 8704	File #4
SN8705	M/V Senator Cruise 8705	File #5
SN8706	M/V Senator Cruise 8706	File #6
SN8707	M/V Senator Cruise 8707	File #7
SN8709	M/V Senator Cruise 8709	File #8
SN8710	M/V Senator Cruise 8710	File #9
SN8711	M/V Senator Cruise 8711	File #10
SN8712	M/V Senator Cruise 8712	File #11
SN8713	M/V Senator Cruise 8713	File #12
SN8714	M/V Senator Cruise 8714	File #13
SN8715	M/V Senator Cruise 8715	File #14
SN8717	M/V Senator Cruise 8717	File #15
SN8718	M/V Senator Cruise 8718	File #16
SN8719	M/V Senator Cruise 8719	File #17
SN8720	M/V Senator Cruise 8720	File #18
SN8721	M/V Senator Cruise 8721	File #19
SN8722	M/V Senator Cruise 8722	File #20
SN8723	M/V Senator Cruise 8723	File #21
SN8724	M/V Senator Cruise 8724	File #22
SN8725	M/V Senator Cruise 8725	File #23
SN8726	M/V Senator Cruise 8726	File #24
SN8727	M/V Senator Cruise 8727	File #25
87G3	Gyre Cruise 87G3	File #26
87G4	Gyre Cruise 87G4	File #27
87G10	Gyre Cruise 87G10	File #28
87G11	Gyre Cruise 87G11	File #29
88G5	Gyre Cruise 88G5	File #30
JS8701	Justo Sierra Cruise 8701	File #31
JS8702	Justo Sierra Cruise 8702	File #32
JS8801	Justo Sierra Cruise 8801	File #33
PN8711	R/V Pelican Cruise 8711	File #34
SC8701	R/V Suncoaster Cruise 8701	File #35
SC8705	R/V Suncoaster Cruise 8705	File #36
SC8720	R/V Suncoaster Cruise 8720	File #37

Science Applications International Corporation

October 12, 1989

Mr. Francis Mitchell
NOAA/NODC
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Francis:

Enclosed please find four (4) nine-track magnetic data tapes containing all data collected as part of Year 5 of the Gulf of Mexico Physical Oceanography Program. This work was funded under Minerals Management Service Contract Number 14-12-0001-29158, which was awarded to Science Applications International Corporation. The following items have been enclosed:

(1) Four (4) data tapes:
- 1 - 2400 foot tape containing Hydrographic and AXBT data in NODC Formats 022 and 004,
- 1 - 2400 foot tape containing Inverted Echo Sounder (IES) data in modified NODC Format 015,
- 2 - 2400 foot tapes containing Current Meter data in NODC Format 015.

(2) Five (5) printed volumes detailing the information stored on each tape:
- Volume I - Current Meter Data
- Volume II - XBT and CTD Cruise Data
- Volume III - Oxygen Data
- Volume IV - AXBT Survey Data
- Volume V - Inverted Echo Sounder (IES) 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,

Rebecca J. Weber

Rebecca J. Weber
Data Analyst

Enclosures

4900 Water's Edge Drive, Suite 255, Raleigh, North Carolina 27606
(919) 851-8356

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

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THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

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Science Applications International Cooperation
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 Year 5 (GOMPOP)
(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT - MOORING ID's

MAA1	MB09	MCC9	MDD4	ME62	MFF2
MBB1	MCC1	MDD1	MDD5	ME63	MFF3
MBC3	MCC3	MDD2	MDD9	ME69	MFF4
MB85	MCC5	MDD3	ME61	MFF1	MFF9

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
	MOORING	USA	USA	04/87	11/88

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?)

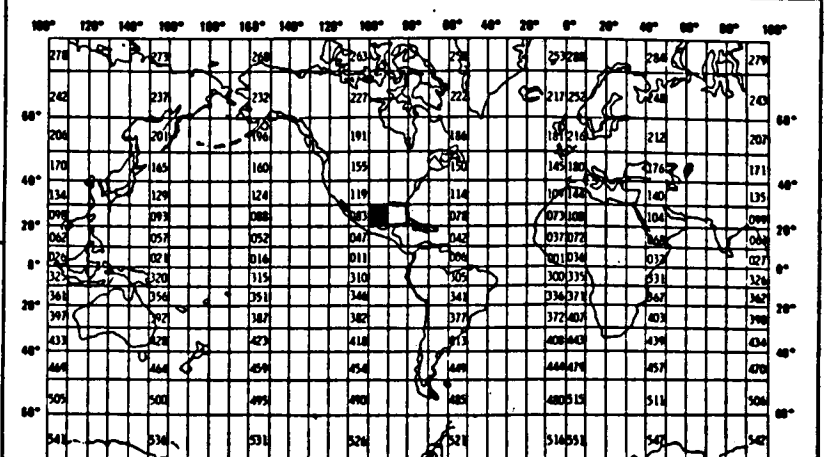
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Dr. Evans Waddell, Div. Mgr.
SAIC
4900 Water's Edge Drive
Suite 255
Raleigh, NC 27606

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

GENERAL AREA



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

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Maritime Technology Group / Physical Oceanography Division
4900 Water's Edge Daive
Suite 255
Raleigh, NC 27606

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Gulf of Mexico Physical Oceanography Program
Year 5 (GOMPOP)

(MMS Contract No: 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT Mooring ID's

MG61, MG62, MG63, MGGH, MGG5, MGG9

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
	MOORING	USA	USA	4/87	11/88

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)?
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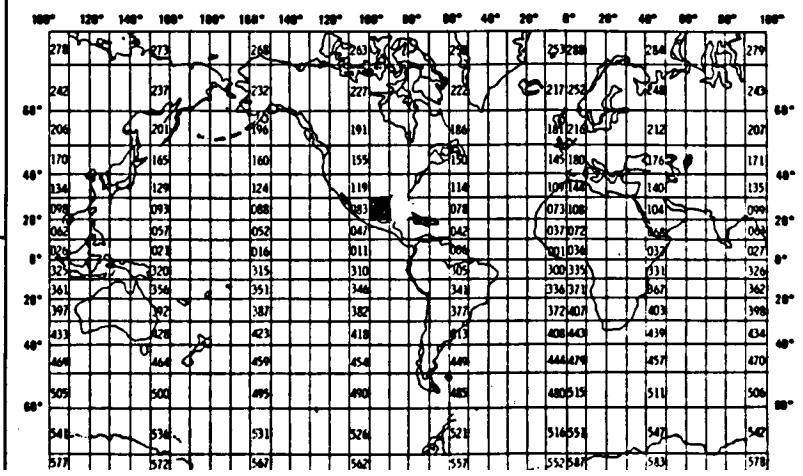

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DATA DOCUMENTATION FORM

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Gulf of Mexico Physical Oceanography Program
Year 5

(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT *MOORING ID'S:*

MGG6
MHH1

4. PLATFORM NAME(S)

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

MOORING

6. PLATFORM AND OPERATOR NATIONALITY(IES)

PLATFORM	OPERATOR
USA	USA

7. DATES

FROM: MO/DAY/YR	TO: MO/DAY/YR
4/87	11/88

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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

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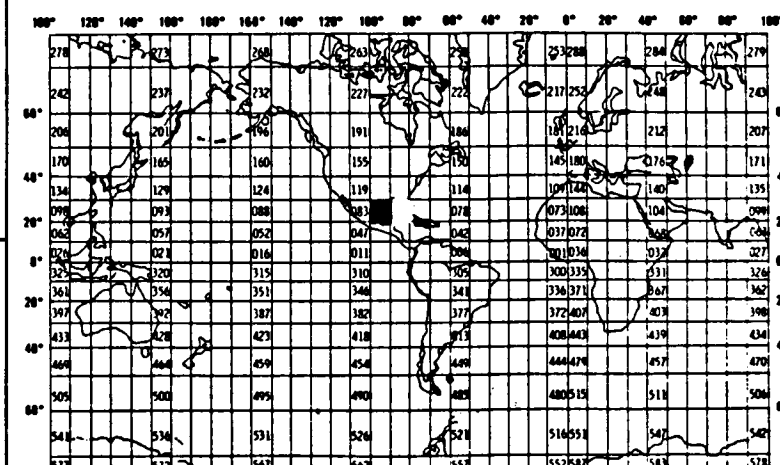

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Year 5 (GOMPOP)
(MMS Contract No. 14-12-0001-29158)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT (CRUISE ID'S)

PN8713	PN8826	PN8911
PN8715	PN8823	SE8729
PN8803	PN8903	GOMYR5AXBT1
PN8814	PN8913	GOMYR5AXBT2

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
	AIRCRAFT, SHIP	USA	USA	04/05/87	11/02/88

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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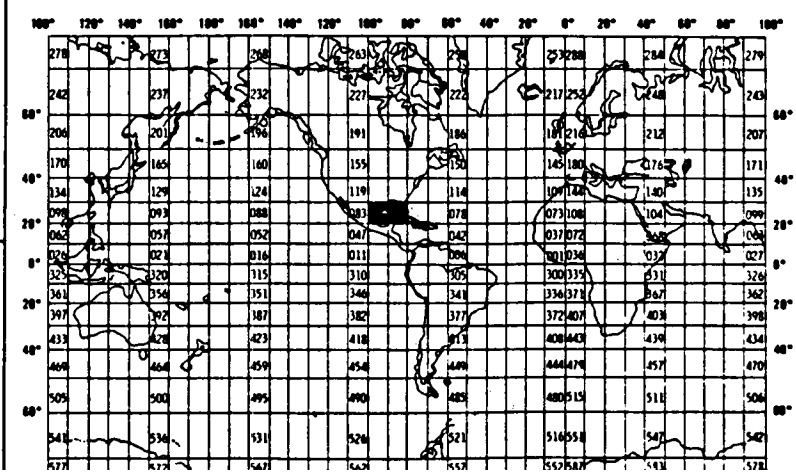

The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.