Gulf of Mexico Physical Oceanography Study

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



Gulf of Mexico Physical Oceanography Study

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

> 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 The contractor for in the Gulf, titled as above. 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 673-5643 EFTS 673-56433. NODC, at telephone (202)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)



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

AUG 2 5 1989

ACCESSION NUMBER

Minerals Management Service Leasing & Environment

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 F	OR ALL D	ATA TRANSMIT	TALS					
1. NAME AND ADDRESS OF INSTITUTION, LABOR	1.	, , , , , , , , , , , , , , , , , , , ,		ITTED DATA AF	REASSOCIATED			
Science Applications Inter	ne tron	al Corpo	retion	·				
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Raleigh, North Carolina								
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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	Tor	Nansen bottles	Inductive Salinometer (Hytech model S 510)	N/A (Not applicable)	
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals	
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A	
Sediment size	\$ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk 165	

(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	·	
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		Mark I and Mark II current meters		
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C. DATA FORMAT

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

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2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
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		- 60
IOAA 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 ("\sqrt{''}) the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

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OAA FORM 24-13

DATA DOCUMENTATION FORM

NOAA FORM 24-13 (4 - 77)

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NAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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A. ORIGINATOR IDENTIFICATION

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B. SCIENTIFIC CONTENT

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	·	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	& units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk 165

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

D. 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		1/4
	0.5	MarkI and MarkII current meters		
Temperature	°C	General Oceanics Model 6011		
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Pressure	dB	Modified Geodgne (VACM)		
		Georgie (DACIO)		
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		* ;		
IOAA 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
NOOC File Type Ø15-
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION
32 Files, each on a separate tape tile
3. ATTRIBUTES AS EXPRESSED IN Pt-1 ALGOL COBOL FORTRAN LANGUAGE
4. RESPONSIBLE COMPUTER SPECIALIST: NAME AND PHONE NUMBER Long Martin, 1 (919) 851-8356 ADDRESS Science Applications International Corp. Custer's Edge Dr. #255, Kaleigh, North Carolina 27606 COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE
5. RECORDING MODE 9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH
ASCII EBCDIC 10. END OF FILE MARK OCTAL 17
6. NUMBER OF TRACKS SEVEN
NINE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY DODD SPØ 731
8. DENSITY 200 BPI X 1600 BPI
12. PHYSICAL BLOCK LENGTH IN BYTES
13. LENGTH OF BYTES IN BITS

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 ("\(\subseteq \cdot '' \) 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 DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED				INSTRU- MENT IS		
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Modified Seodyne vacu			Florida State University						

DATA DOCUMENTATION FORM

NOAA FORM 24-13 (4-77) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Science Applications Inter Maritime Technology Group/	rnational Corporati	on				JN JOOM	III IED DATAA	C ASSOCIATED
4900 Water's Edge Drive	Physical Oceanograp	thy Division	l					
Suite 255								
Raleigh, NC 27606								
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	,		usa	\	us	A	08/18/82	06/06/84
	!				,	,	-0110102	00100107
8. ARE DATA PROPRIETARY	,						JARES IN WHIC	
NO □YES		CONT	AINED IN	YOUR	SUBMI	SSION WE	ERE COLLECTE	ED.
								,
IF YES, WHEN CAN THE FOR GENERAL USE?					GEN	ERAL AR	EA	
9. ARE DATA DECLARED NAT								
PROGRAM (DNP)?	· · · · · · · · · - · -	189* 129* 1	180° 180° 180°	168* 148*	120° 100	r 80° 80°	40" 20" 0" 20" (18° 50° 50° 190°
(I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS		278		208	200		\$ 5×20	284 () (270
TIONAL EXCHANGE?)		242	المراه	232	227	2953722	\$ 20 25 E	243
NO XYES PART	(SPECIFY BELOW)	206	4 201		191	130	1845197	212 207
	(======================================	40- 170	165	160	155	 	145 180	171
		" <u>14 </u>	129	124	119	114	I I I I I I I I I I I I I I I I I I I	140 135
		200	057	052	047	078	073108	104 000 20°
10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRES	ES CONCERNING		021	315	310	7 7	201036 300335	032 027 631 326
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De. Evans Waddell, Div. Mg				387	382 418	377	372 407	403 398 434
SAIC	1''	40*	U464 \$	459	454	3 3 449	444479	457 470
4900 Water's Edge Deive		505	500	495	490	425	480515	511 506
Suite 255		544-	536	531	526	321	516551	1 1 1 1 1 1 1 1 1
Suite 255 Raleigh, NC 27606		541.	576	531	526 562	521 557	516551	

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	٠, ٢	Sippican T-7 XBT	- NONE-	All data interpolated to a I m depth increment. Used on all cruises.
Temperature Salinity	° C pp t	Neil Brown Mark IIB CTD System	- NONE -	All data interpolated to a 1 m depth increment. <u>NOTE:</u> This system only used on Cruises: GMB1, SCB31\$\phi\$ and CFB4\$\phi\$5.
;				,
		·		

C. DATA FORMAT

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

	S CONTAINED IN THE TRANSMITT ENTIFYING EACH RECORD TYPE	
None File To	.a. Ø22	
NODC File Ty	The Fac	
	CTD/STO Data"	
April 1985 Ve	ision	
	•	
2. GIVE BRIEF DESCRI	PTION OF FILE ORGANIZATION	
32 individual file	es separated by I EOF. 2	EOF's define EOM (End-of-Medium).
·	•	
		,
		:
3. ATTRIBUTES AS EX	<u></u>	ALGOL COBOL
	Tortran [LANGUAGE
4. RESPONSIBLE COMP	PUTER SPECIALIST: DEPHONE NUMBER Robert J. W.	auland (419) 851-8356
ADDRESS	Science Applications Internati	ional Comporation/4500 Water's Edge Drive, Suite 2
	Kaleigh, NC 27606	·
COMPLETE THIS	SECTION IF DATA ARE ON MAGN	ETIC TAPE 19. LENGTH OF INTER-
3. RECORDING MODE	BCD BINARY	RECORD GAP (IF KNOWN) 3/4 INCH
	ASCII EBCDIC	
		10. END OF FILE MARK
6. NUMBER OF TRACK	:s	□ IBM
(CHANNELS)	SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
	MINE NINE	ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
		_
7. PARITY		SAIC/Ruleigh Tape ID No:
	∐ ODD ⊠ Even	
8. DENSITY	<u> </u>	SP12Ø5
	200 BPI X 1600 BPI	$\int 11240$
	□ 556 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
		3600
	300 BPI	13. LENGTH OF BYTES IN BITS
		-\ 12 \phi_
NOAA EABNAAA		16.9

RECORD FORMAT DESCRIPTION

ECORD NAME HODE					E ATTACHED **
	15. POSITION FROM - 1 MEASURED	16. LEN		17. ATTRIBUTES	18. USE AND MEANING
	l in [NUMBER	UNITS		
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4.1.10 <u>High-resolution CTD/STD Data (File 022)</u>

Geographic coverage - Worldwide oceans

Time period - 1969 - present

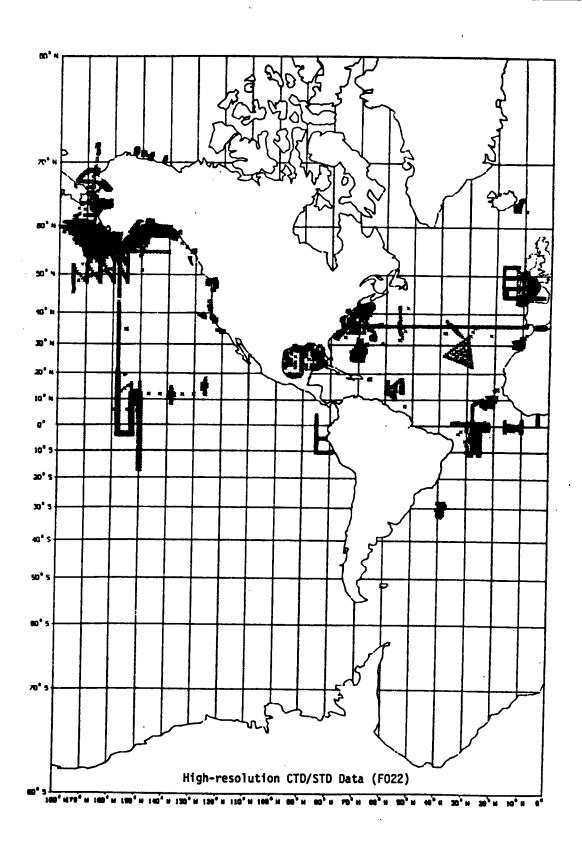
Description -

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 lowresolution version of each cast is created by picking off data values at selected depth levels. The compressed CTD/STD records are stored in a separate data base (see Section 4.1.2) in the same format as oceanographic station (Nansen cast) data. The compressed data can be used like Nansen cast data in studies of gross ocean structure and features where the finer depth resolution of the original data records is not required.

(For data inventory plot, see following page)

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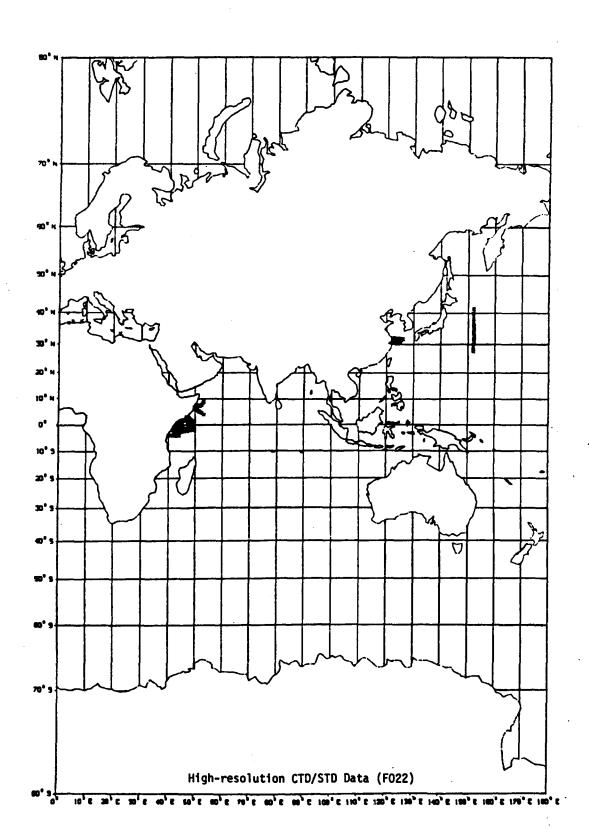


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April	1985

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File structure -

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

File format -

High-resolution CTD/STD Data (F022)

PARAMETER		DESCRIPTION	N		sc
TEXT RECORD CAST NUMBER	FIV ORI	AYS '1' E-CHARACTER F1 GINATOR - ALSO ES 2.3 AND 4			10 11
TEXT	100	-CHARACTER FIE PERTINENT INFO		OR COMMENTS	16
SEQUENCE NUMBI	ER XXX	KX - USED FOR	SORTING TEX	T RECORDS	116
MASTER RECORD		AYS '2'			10
CAST NUMBER		RECORD '1'			11
LATITUDE		MXX PLUS HEM JTES TO HUNDRE	MISPHERE 'N' Edths	OR 'S' -	16
LONGITUDE			EMISPHERE 'E	' OR 'W' -	23
232333	MIN	JTES TO HUNDRE	EDTHS		
CRUISE IDENTIF		-CHARACTER FIE Ginator	ELD ASSIGNED	BY THE	31
NUMBER OF SCAP		XX - USED TO 1	INDICATE NUM	RER OF	41
NOMBER O. SOA.	_	NS PER STATION			٠,
DATE (GMT)	YYMI		, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	···= • .	46
TIME (GMT)	XXX	(HOURS AND N	MINUTES)		52
	L INDICATOR ONE			16	56
SAMPLE INTERVA		- WHEN INDIC			57
		CED DEPTHS) -			•
BAROMETRIC PRE	ESSURE XXX	X (MILLIBARS	TO TENTHS)		60
WET BULB TEMP		NEGATIVE TEN		RE PRECEDED	65
	_	A MINUS SIGN A JE - DEG C TO		TEMPERATURE	
DRY BULB TEMP		NEGATIVE TEN		DE DOECEDED	40
DRY BULB TEMPE	BY	MINUS SIGN A	ADJACENT TO		09
WIND DIRECTION		TWO-DIGIT CO		E/007 -	73
WIND DIRECTION	DIR	ECTION FROM -			, 3
WIND SPEED		(WHOLE KNOTS)			75
WEATHER	ONE: 010	-DIGIT CODE -	WMO 4501 - 1	USE CODE	77
SEA STATE	ONE - 010	DIGIT CODE -	WMO 3700 - 1	USE CODE	78
VISIBILITY		DIGIT CODE -	WMO 4300 -	USE CODE	79
CLOUD TYPE		-DIGIT CODE -	WMO 0500 -	USE CODE	80
CLOUD AMOUNT		DIGIT CODE -	WMO 2700 - 0	USE CODE	81
INSTRUMENT IN		NTY-CHARACTER Trument, Seria			82
LOCATION NAME	_	-CHARACTER NAM Ginator	ME DETERMINE	D BY THE	102

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DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST Blanks	XXXX (WHOLE METERS)	113 117
N57411 D500D0 4		
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
	PRECEDED BY A MINUS SIGN ADJACENT TO	
CALTRITTY	TEMPERATURE VALUE - DEG C TO THOUSANDTH	
SALINITY	. XXXXX - PARTS PER THOUSAND TO	26
SIGMA-T	THOUSANDTHS XXXX - TO HUNDREDTHS	
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	31
2CMA COMDITION		35
DEPTH	SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
TEMPERATURE	PRECEDED BY A MINUS SIGN ADJACENT TO	41
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	ıe
SALINITY	XXXXX - PARTS PER THOUSAND TO	13 46
JACINIT	THOUSANDTHS	40
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
JOHN CONDITION	SCANNING DATA - USE CODE 0080	33
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
	PRECEDED BY A MINUS SIGN ADVACENT TO	•
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	łs
SALINITY	XXXXX - PARTS PER THOUSAND TO	66
•	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	81
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	IS
SALINITY	XXXXX - PARTS PER THOUSAND TO	86
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENIHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	101
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	IS
SALINITY	XXXXX - PARTS PER THOUSAND TO	106
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE OOBO	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

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DETAIL RECORD 2	ALWAYS '4'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	21
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	26
BLANKS		31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	36
DISSOLVED CXYGEN	XXXXX - ML/L TO THOUSANDTHS	41
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	46
BLANKS		51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
Depart .	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	56
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS XXXXX (PERCENT TO THOUSANDTHS)	61 66
TRANSMISSIVITY Blanks	AAAAA (PERCEN) TU THOUSANDTHS)	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
SCAN CONDITION	SCANNING DATA - USE CODE OO80	/3
DEPTH	XXXXX (METERS TO TENTHS)	76
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
BLANKS	AAAAA (FERGERT TO TROUGHNUTTU)	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	SCANNING DATA - USE CODE 0080	
DEPTH	XXXXX (METERS TO TENTHS)	96
DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	101
TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	106
BLANKS		111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	115
	SCANNING DATA - USE CODE 0080	
SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DETAIL RECORD 3	ALWAYS '5'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
DEPTH Temperature	XXXXX NEGATIVE TEMPERATURES ARE	16 21
	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO	21
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO	21 26
TEMPERATURE CONDUCTIVITY BLANKS	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS)	21 26 31
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF	21 26 31
TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OO80	21 26 31 35
TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OO80 XXXXX (METERS TO TENTHS)	21 26 31 35
TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OO8O XXXXX (METERS TO TENTHS) XXYXX NEGATIVE TEMPERATURES ARE	21 26 31 35
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TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21 26 31 35 36 41
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CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OO8O XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OO8O XXXXX (METERS TO TENTHS)	26 31 35 36 41 46 51 55
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CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXYXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO	21 26 31 35 36 41 55 56 61
CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXYXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21 26 31 35 36 41 55 56 61
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CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH TEMPERATURE CONDUCTIVITY BLANKS SCAN CONDITION DEPTH DEPTH	XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXYXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS XXXXX (MMHO/CM TO THOUSANDTHS) ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE OOBO XXXXX (METERS TO TENTHS) XXXXX (METERS TO TENTHS) XXXXX (METERS TO TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE VALUE - DEG C TO THOUSANDTHS	21 26 31 35 36 41 46 55 56 61 66 71 75 76
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SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	32
	SCANNING DATA - USE CODE CORO	96
DEPTH	XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE	10
TEMPERATURE		10
,	PRECEDED BY A MINUS SIGN ADJACENT TO	_
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
CONDUCTIVITY	XXXXX (MMHd/CM to Thousandths)	10
BLANKS		11
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	11
	SCANNING DATA - USE CODE DOSO	
SEQUENCE NUMBER	. XXXXX - USED FOR SORTING DATA RECORDS	11
DETAIL RECORD 4	ALWAYS '6'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
,	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	5
SALINITY	XXXXX - PARTS PER THOUSAND TO	ັ26
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	3 1
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	SCANNING DATA - USE CODE OORO	5.5
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
TEMPERATURE	PRECEDED BY A MINUS SIGN ADJACENT TO	٠,
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	e
SALINITY	XXXXX - PARTS PER THOUSAND TO	3 46
JACINITY	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	UNE-CHARACTER CODE INDICATING METHOD OF	
3CAN CONDITION	SCANNING DATA - USE CODE 0080	99
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
TEM ERATORE	PRECEDED BY A MINUS SIGN ADJACENT TO	٠.
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	c
SALINITY	XXXXX - PARTS PER THOUSAND TO	。 66
54211111	THOUSANDTHS	00
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
SCAN CONDITION	SCANNING DATA - USE CODE 0080	, 5
PRESSURE		76
TEMPERATURE	XXXXX (DECIBARS TO TENTHS)	
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	8 1
	PRECEDED BY A MINUS SIGN ADJACENT TO	
CAL TAITTY	TEMPERATURE VALUE - DEG C TO THOUSANDTH	٥,,
SALINITY	XXXXX - PARTS PER THOUSAND TO	86
C1044 T	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
PRESSURE	SCANNING DATA - USE CODE OOBO	
	XXXXX (DECIBARS TO TENTHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	10
	PRECEDED BY A MINUS SIGN ADJACENT TO	
CAL THITTY	TEMPERATURE VALUE - DEG C TO THOUSANDTH!	-
SALINITY	XXXXX - PARTS PER THOUSAND TO	10
ETCMA_T	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	11
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	11
SECULENCE ANIMOED	SCANNING DATA - USE CODE OOBO	

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SECTION 4.1.10

DETAIL RECORD 5	ALWAYS '7'	10
CAST NUMBER	SEE RECORD '1'	11
PRESSURE	XXXXX (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	ς .
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS	AAAAA (MMINO) CM TO TTIOOSANDTIIS)	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	-
	SCANNING DATA - USE CODE 0080	33
PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
, and chartone	PRECEDED BY A MINUS SIGN ADJACENT TO	41
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	_
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	-
BLANKS	AAAAA (MMHU/CM TU THUUSANUTHS)	46
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	51
,	SCANNING DATA - USE CODE 0080	ວວ
PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
TEMPERATORE	PRECEDED BY A MINUS SIGN ADJACENT TO	וט
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	-
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	-
BLANKS	VVVVV (WWLD)CW ID ILDOZNADIU2)	66
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	71
SCAIN CONDITION	SCANNING DATA - USE CODE OOBO	/5
PRESSURE	XXXXX (DECIBARS TO TENTHS)	7.0
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	76 81
I CAIP ENATORE	PRECEDED BY A MINUS SIGN ADJACENT TO	81
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	_
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	
BLANKS	AAAAA (MMHU)CM TU IHUUSANUIHS)	86
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	91
SCALE CONDITION	SCANNING DATA - USE CODE 0080	95
PRESSURE	XXXXX (DECIBARS TO TENTHS)	
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	96 101
I CHIP CRA ! ORE	PRECEDED BY A MINUS SIGN ADJACENT TO	101
	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	-
BLANKS	AAAAA (MMMDU/GM IU INUUSANUINS)	106
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	111
JUNIA COMOTITUM	SCANNING DATA - USE CODE OOBO	115
SEQUENCE NUMBER		
JEYUENCE NUMBEK	XXXXX - USED FOR SORTING DATA RECORDS	116

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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
SALINTTY	XXXXX - PPT TO THOUSANDTHS	26
DISSOLVED OXYGEN	XXXX - MILLILITERS/LITER	31
SCAN CONDITION CODE	DNE-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		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 ("V") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

	TYPE DATE OF LAST CALIBRATION YOUR	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRU- MENT IS	
INSTRUMENT TYPE (MFR., MODEL NO.)		YOUR ORGANIZATION	OTHER ORGANIZATION (GIVE NAME)	AT FIXED	BEFORE OR AFTER USE	BEFORE AND After Use	ONLY AFTER REPAIR	ONLY WHEN NEW	NOT CALI- BRATED	
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eil Brown Mark III-B CTD System	5/84		N.W. Regional Labs Calibration Center		V				·	
ippican ! Bathy Systems XBT System	UNKNOWN		UNKNOWN							
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DATA DOCUMENTATION FORM

NOAA FORM 24-13

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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

Science Applications I.	nternational Corpor	ration				
Maritime Technology Gra	p/Physical Occani	ography D	ivision			
19900 Water's Edge Drive		<i>J I</i> ,				
Suite 255						
Raleigh, NC 27606						
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED					SY ORIGINATOR CRUISE ID'S	TO IDENTIFY
Gulf of Mexico Physic	al Oceanography f	rogram	GMOI)			
Years 1 = 2 (GOMPOF)	0)	5C8310	Nutrient State	lions Only	
(MMS Contract No.	14-12-0001- 2915B)	CF84Ø5)			
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM A NATIONALIT			TES
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	3H1P		USA	USA	03/07/83	05/18/84
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8. ARE DATA PROPRIETARY	•		SE DARKEN ALI AINED IN YOUR			
NO TYES						
IF YES, WHEN CAN THE FOR GENERAL USE?				GENERAL AR	REA	
9. ARE DATA DECLARED NA PROGRAM (DNP)?	TIONAL	100" 120"	140° 190° 190° 160° 140	128" 188" 86" 60"	40- 20- 0- 20-	40° 50° 50° 100°
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Dr. Evans Waddell, Div. SAIC	' ' ''	469	0464 5 659	454 8 5 449	444 479	457 470
4900 Water's Edge Daive		505	500 495	490 485	480515	511 506
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Raleigh, MC 27606		577	572 567	557	552 587	583 578
1,		188* 128*	148* 148* 188* 148* 148	128° 188° 88° 88°	44* 25* 6* 26*	48" 68" 68" 100"

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	- HOME -	All data interpolated to a Im depth increment
Salinity	ppt ppt	Neil Brown MARK 皿B CTD Niskin Bottles	- NONE- Used to calibrate IIB CTD data	All data interpolated to a Im depth NONE—
Oxygen (dissolved)	m1/1	Niskin Bottles	- Nome -	- Nonc-
Nitrate	my-atoms/1	Miskin Bottles	- NONE -	- NONE -
Silicate	Mg-atoms/1	Niskin Bottles	- NOWE -	- Nome -
hosphate.	invegante reg-atoms/1	Niskin Bottles	- None -	- NOWE -
Total Chlorophyll	mg/m³	Niskin Bottles	- NONE -	No Chlorophyll data collected on Cruise CF84\$5.
·				

C. DATA FORMAT

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

LIST RECORD TYPES CONTAINED IN THE TRANSMITTA GIVE METHOD OF IDENTIFYING EACH RECORD TYPE	L OF YOUR FILE				
NODC File Type 004					
"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 2 1000 m to be submitted. This format change was approved via phonecon with Francis Mitchell (NOOC) on 8/15/89.					
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION					
3 Individual files separated by 1 EOF.	. 2 EDF'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. Way	land (919) 851-8356 1 Corporation / 4900 Water's Edga Drive, Suite 255				
Raleigh, NC 27606	•				
S. RECORDING MODE BCD BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH				
ASCII EBCDIC					
	10. END OF FILE MARK				
6. NUMBER OF TRACKS (CHANNELS) SEVEN	⊠ IBM				
(CHANNELS) SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS				
	OF DATA TYPE, VOLUME NUMBER)				
7. PARITY	SAIC/Raleigh Tape ID No:				
☐ ODD	5P121Ø				
8. DENSITY	$JP1ZI\varphi$				
200 BPI 1600 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES				
556 BPI	4000				
	13. LENGTH OF BYTES IN BITS				
	/ BØ				

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DATE	NODC Users Guide	SECTION	PAGE
April 1985	NODO COOLO CELEO	4.1.6	1

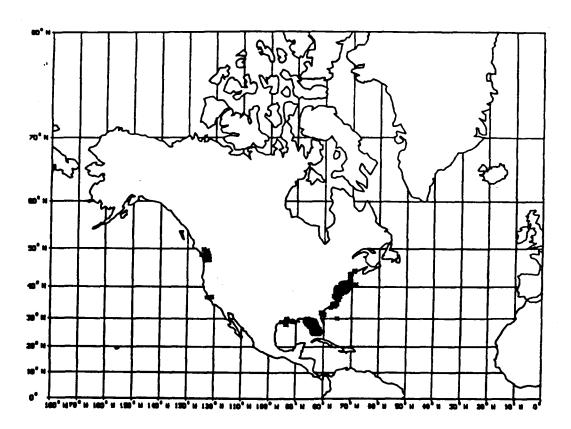
4.1.6 Water Physics and Chemistry (File 004)

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.



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SECTION 4.1.6

PAGE 2

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	CESCRIPTION	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 CATES	28
SENIOR SCIENTIST	19-CHARACTER FIELD FOR SCIENTIST NAME	45
INVESTIGATOR	17-CHARACTER FIELD FOR RESPONSIBLE	64
	INSTITUTION	
FIRST STATION HEADER RECORD	ALWAYS '2' ,	10
SEQUENCE	XXX - THREE-CHARACTER SEQUENCE NUMBER	11
STATION	FIVE-CHARACTER STATION IDENTIFIER	14
LATITUDE	CCMMSS PLUS HEMISPHERE 'N' OR 'S'	19
LONGITUDE	CCOMMSS PLUS HEMISPHERE 'E' OR 'W'	26
TIME (GMT)	XXX - HOURS TO TENTHS	34
DATE	PP/00/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 - CEG C (WHOLE DEGREES)	56
SALINITY FLAG	ONE-CHARACTER CODE - USE CODE 0502	58
STATION IDENTIFIER	10-CHARACTER ORIGINATOR STATICN IDENTIFIER	59
MAXIMUM DEPTH	XXXXX-DEPTH OF CEEPEST OBSERVATION	69
PARTIUM DEVII	(METERS)	• •
BOTTOM TYPE	ONE-CHARACTER CODE - USE CODE 0103	74
BLANKS		75
SECOND STATION HEADER RECORD	ALWAYS '3'	10
SEQUENCE	SEE RECORD '2'	11
STATION	SEE RECCRC '2'	14
BAROMETER	XXX - MILLIBARS TO TENTHS	19
DRY BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED BY A MINUS SIGN ADJACENT TO TEMPERATURE	22
	VALUE - DEG C TO TENTHS	
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED	26
	BY A MINUS SIGN ADJACENT TO TEMPERATURE	
	VALUE - DEG C TO TENTHS	
WIND DIRECTION	TWO-CHARACTER CODE - USE CODE 0110	30
WIND SPEED	XX - KNCTS	32
SEA DIRECTION	TWO-CHARACTER CODE - USE CODE 0110	34
SEA HEIGHT	CNE-CHARACTER CODE - USE CODE 0104	36
SWELL CIRECTION	TWO-CHARACTER CODE - USE CODE 0110	37
SWELL HEIGHT	CNE-CHARACTER CODE - USE CODE 0104	39

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LIE A TUE O	CNE-CHARACTER CODE - USE CODE 0108	40
WEATHER	ONE-CHARACTER CODE - USE CODE 0053	41
CLOUD TYPE	CNE-CHARACTER CODE - USE CODE 0105	42
CLOUD COVER	CNE-CHARACTER CODE - USE CODE 0157	43
VISIBILITY	XXXX - SECCHI DISC DEPTH (METERS TO	44
TRANSPARENCY	TENTHS)	77
	ONE-CHARACTER CODE - USE CODE 0094	48
TURBIDITY	TWO-CHARACTER CODE - USE CODE 0051	49
WATER COLOR	INOTCHANACIEN CODE = ODE CODE 0031	51
BLANKS		
•		
DATA -500-D 4	AI LIAWS She	10
DATA RECORD 1	ALWAYS '4' SEE RECORD '2'	11
SEQUENCE	SEE RECORC '2'	_
STATION		14 19
DEPTH	XXXX - SAPPLE DEPTH (PETERS)	
TEMPERATURE	XXXXX - WATER TEMPERATURE (DEG C TC	23
	THOUSANCTHS)	
SALINITY	XXXXX - PARTS PER THOUSAND TO	28
	THOUSANCTHS	
SIGMA-T	XXXX - TO HUNCREDTHS	33
TRANSMISSIVITY	XXX - PERCENT TO TENTHS	37
PH	XXX - TC HUNDRECTHS	40
€H	XXXX - TO HUNCREDTHS	43
OXYGEN	XXXX - CISSOLVED OXYGEN (PL/L TC	47
	HUNDREDTHS)	
AMMONIA	XXX - UG-ATOMS/L TO TENTHS	51
NITRITE	XXX - UG-ATOMS/L TO HUNDREDTHS	54
NITRATE	xxxx - ug-atoms/l to hundreoths	57
SILICATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	61
PHOSPHATE	XXX - INORGANIC UG-ATOMS/L TO	65
	HUNDREDTHS	
SOLIDS	XXXX - SUSPENCED SOLICS (MG/L TC	68
	HUNDRECTHS	
TURBIDITY	XXXX - MG/L TO HUNCRECTHS	72
CHLOROPHYLL	XXXXX - MG/CUBIC METER TO HUNCREDTHS	76
LIGHT PENETRATION	XXX - PERCENT OF SURFACE LIGHT AT	81
	DEPTH (TO TENTHS)	
PRODUCTIVITY	XXX - PRODUCTION RATE OF CARBON	84
	(G/M3/HR)	
TOTAL NITROGEN	XXX - (UG-AT/L)	87
TOTAL PHOSPHATE	XXXX - PHOSPHATE FROM TOTAL SAMPLE.	90
,	INCLUDING SEDIMENT (UG-AT/L) TO	- •
_	HUNDREDTHS	
TOTAL FILTER PASSING	XXXX - (UG-AT/L) TO HUNCREDTHS	94
PHOSPHATE	ANNA 100 HIVE! TO HONDING	
TITRATION ALKALINITY	XXX - (MEG/L) TO HUNDRECTHS THE NUMBER	98
11 MAILON AEMAERITATI	OF MILLIEGUIVALENTS OF HYDROGEN ICAS	- •
	NEUTRALIZED BY ONE LITER OF SAMPLE	
	WATER	
	, , , , , , , , , , , , , , , , , , ,	
DATA DECORD A		
DATA RECORD 2	ALWAYS '5'	10
SEQUENCE	SEE RECORD '2'	11
STATION	SEE RECORC '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	XXXXX - CP/SEC TO TENTHS	37
COMPONENT (U)	MANAGE SE STATE	
NORTH-SOUTH CURRENT	XXXXX - CM/SEC TO TENTHS	42
COMPONENT (V)	LUV ARRACUT DA TENTINA	
TRANSMISSIVITY	XXX - PERCENT TO TENTHS	47

NODC Users Guide

SECTION 4.1.6

PH	XXX - TO PUNDREDTHS	50
OXYGEN	XXXX - SEE RECORD "4"	53
AMMONIA	XXX - UG-ATOMS/L TO TENTHS	27
NITRITE	XXX - UG-ATOMS/L TO HUNDREDTHS	60
NITRATE	XXXX - UG-ATOMS/L TC HUNDRECTHS	63
SILICATE	XXXX - UG-ATOMS/L TO HUNDREDTHS	68
PHOSPHATE	XXX - SEE RECORD '4'	72
CHLOROPHYLL	XXXXX - SEE RECORD '4'	75
BLANK		- 60

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 ("V") 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 WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRU- MENT IS
INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE	ONLY AFTER REPAIR (√)	ONLY WHEN NEW	NOT CALI- BRATED
·									
eil Brown Mark IIIB CTD System	5/84		N.W. Regional Lobs Calibration Center		V				
liskin Bottles	5/84		SKIDAWAY INSTITUTE OF OCEANOGRAPHY						
		·							



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,

U306

Robert J. Wayland Senior Meteorologist

Enclosures

A	C	C	Ε	S	SI	0	N
	N	u	м	В	Ε	R	

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 IN	•		RACTIVI	TY WIT	H WHICH SUB	MITTED D	ATA AF	RE ASSOCIATED
Science Applications International Corporation								
Maritime Technology Group / Physical Oceanography Division								
1 4900 Water's Educ Dri	4900 Water's Edge Drive							
Suite 755								
Raleigh North Caroline 37606 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY								
DATA WERE COLLECTED DATA IN THIS SHIPMENT: MOORING ID'S:								
Gulf of Mexico Physic	al Oceanography 1	Program,	MOAI	MOC	I MAAI	MAEI	MOF	
Year 4 (GOMPOP)	517	0 ,	MØAZ MØA3	MAC	1 - 1	MØE2	MØF	2
1601 4 COS (101)			MOAH	MAC	3 MDA3	MØE3	1	
(MMS Contract No. 1	4-12-0001- 29158)	MØA5	}	}		1	
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO	<u>-(5)</u>		FORMA	ND OPERATO)FI 7.	DA	TES
	(2.0., 3117, 800	1, 210.)	PLAT		OPERATOR	FROM: MO	DAY,YR	TO MO DAY YR
				, O//.m	O. ERATOR	FROM:	<u>, , , , , , , , , , , , , , , , , , , </u>	10; / /
	MOORING		.	_				
	,		usi	4	USA	01/2	4/85	02/01/86
8. ARE DATA PROPRIETARY	?	11. PLEAS	SE DARK	EN ALI	L MARSDEN S	QUARES II	N WHIC	H ANY DATA
	•	CONT	AINED IN	YOUR	SUBMISSION	WERE COL	LECT	ED.
NO TES								,
IF YES, WHEN CAN TH					GENERAL	AREA		
FOR GENERAL USE? 9. ARE DATA DECLARED NA								
PROGRAM (DNP)?		100" 120" 1	40° 100° 100	168* 140	* 120° 100° 00° (10° 40° 20°	8° 28°	40° 50° 50° 180°
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į		134 145	129	124 088	119		3106	140 135
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Suite 255			539	531	526	521 51	4558	194 July 198
1 4 1 1 == -	,							

B. SCIENTIFIC CONTENT

ME 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
urrents	cm/s	General Oceanics, Inc.	- None -	- NONE -
mperature	<i>°</i> د	Model GOII MK I & MKII Current Meters		Submittal contains raw, non-filtered data sets
'essure_	aВ	Florida State University (FSU) Model Current Meters		
		DEPLOYMENT PERIODS:		
		1) 1-23-85 +0 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		
		WOUL WKI WKI WKI	·	
		MBA2 MKI MKI MKI MBA3 MKI MKI MKI		
		MOAS MKI MKI MKI MOAS MKI MKI MKI		
		MOCI MKI MKI MKI		·
		MOC2 MKI MKI MKI MOC3 FSU FSU MKI		·
		MDAI MKI MKI		
		MDAZ MKI MKI MKI MDA3 FSU FSU MKI		
		MEET MKI MKI MKI		
		MØE2 MKI MKI MKI MØE3 FSU FSU MKI		
		MOFI MKI MKI MKI		
1		MGF2 MKI MKI MKI		

C. DATA FORMAT

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

1. LIST RECORD TYPE: GIVE METHOD OF ID			L OF YOUR FILE
NODE File T		, \"	
"Current Meter		mponents)	
April 1985 Vers	ion		
2. GIVE BRIEF DESCRII	PTION OF FIL	E ORGANIZATION	
46 individual fil	les separat	ed by 1 EOF.	2 EOF's define EOM (End-of-Medium)
			•
•			
3. ATTRIBUTES AS EXF	PRESSED IN	PL-1	ALGOL COBOL
		FORTRAN [LANGUAGE
4. RESPONSIBLE COMP			the tank an age
		BER Robert J. W	
ADDRESS	Raleigh, N	lications. Internation	Comparation /4900 Water's Edge Drive Ste. 255
COMPLETE THIS	SECTION IF	DATA ARE ON MAGNET	TIC TAPE
5. RECORDING MODE	□ eco	BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH
			The cord day the known and a state of the cord
	X ASCII	EBCDIC	10. END OF FILE MARK
			OCTAL 17
6. NUMBER OF TRACK			⊠
(CHANNELS)	SEVEN		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
	NINE		ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY			3P12Ø6
	000		i
	₩ EVEN		SAIC/Raleigh Tape Id Number
8. DENSITY		1600 BPI	- Transier
			
	556 BP	l	12. PHYSICAL BLOCK LENGTH IN BYTES
•	800 BP	1	13. LENGTH OF BYTES IN BITS
	LJ		

RECORD FORMAT DESCRIPTION

4. FIELD NAME	15. POSITION FROM-1		GTH	17. ATTRIBUTES	18. USE AND MEANING
	MEASURED				
	(e.g., bits, bytes)	NUMBER	UNITS		
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			}		
			}		· ·
		1			
		1	1		
		1	}		
		1	1		

DATE April 1985	NODC Users Guide	SECTION 4.1.8	PAGE 1

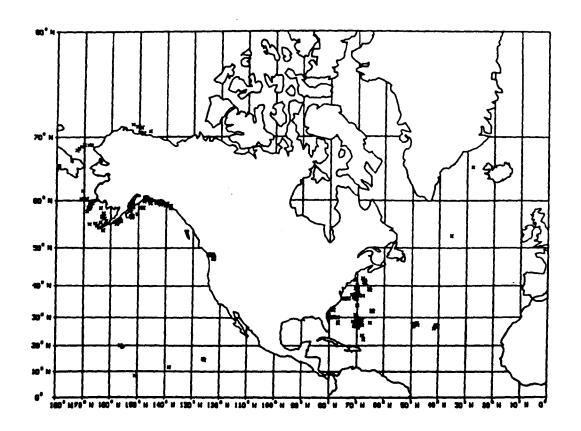
4.1.8 Current Meter Data (Components) (File 015)

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

Time period - 1962 - present

Description -

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



DATE
April 1985

NODC Users Guide

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PAGE

2

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

DATE March 1984

SEQUENCE NUMBER

NODC Users Guide

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PAGE 3

NORTH-SOUTH CURRENT COMPONENT (V)	XXXXXX - CM/SEC TO HUNDREDTHS WITH POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	34
TEMPERATURE	XXXXX WITH NEGATIVE TEMPERATURES PRECEDED BY MINUS SIGN (DEG C TO THOUSANDTHS)	40
PRESSURE CONDUCTIVITY BLANK	XXXXX (DECIBARS TO TENTHS) XXXX - MMHOS/CM TO HUNDREDTHS	45 50 64
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	28
	DIRECTIONS (WEST AND SOUTH) PRECEDED	
NORTH-SOUTH CURRENT	BY MINUS SIGN - DIRECTION TOWARD XXXXXX - CM/SEC TO HUNDREDTHS WITH	34
COMPONENT (V)	POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN	
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

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 ("V") 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	DATE OF ACT	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRU- MENT IS
(MFR., MODEL NO.)	DATE OF LAST CALIBRATION	YOUR ORGANIZATION	OTHER ORGANIZATION (GIVE NAME)	AT FIXED	BEFORE OR AFTER USE	BEFORE AND AFTER USE	ONLY AFTER REPAIR	ONLY WHEN NEW	NOT CALI- BRATED
		(√)		(√)	(√)	(√)	(√)	(√)	(√)
GENERAL OCEANICS, INC. MODEL GOIL 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		V				

A	C	C	Ε	S	SI	0	١
	N	u	м	₽	E	R	

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.)

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A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

THIS SECTION WOST BE COM	FLETED BI DONOR	FOR ALL I	ALA IKAN	ımı ı	IALS				
1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED									
Science Applications International Coeporation									
Maritime Technology Group / Physical Occumography Division									
4900 Water's Edge Daive									
Suite 255									
	Raleigh, NC 27606								
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED 3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT: Morring ID'S:							TO IDENTIFY		
Gulf of Mexico Physi	cal Oceanography	Program,	MØG2	м	1Ø65				
Year H (GOMPOP)	• • •	V	MØG3	M	Ø 6 6				
(MMS Contract No. 14.	-12-0001-29158)		MØ G4						
4. PLATFORM NAME(S)	5. PLATFORM TYPI (E.G., SHIP, BUO		6. PLATFOR				TES		
l.			PLATFOR	M	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR		
	440001		ļ	- 1					
	MOORING		USA	- }	USA	6. 10. 10 -	22 / /-		
	1			- 1		61/24/85	02/01/86		
8. ARE DATA PROPRIETARY	?					JARES IN WHICH			
NO TES		CONT	AINED IN YO	UR	SUBMISSION WE	ERE COLLECTE	ED.		
NO LITES		ł					,		
IF YES, WHEN CAN TH FOR GENERAL USE?			GENERAL AREA						
9. ARE DATA DECLARED NA	TIONAL	100° 120° 1	1400 168° 168° 168	* 140*	120* 100* 00* 00*	48* 28* 8* 38*	an 18° an 180°		
PROGRAM (DNP)?	ICLUDED IN WORLD	ज्ञापन	Pari I	T	Trada de la		but hotel		
DATA CENTERS HOLDING		F 7+ F		1		- 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
TIONAL EXCHANGE?)		242	237	32	227 5 6 222	217252	245 26		
NO XYES PAR	T (SPECIFY BELOW)	206	4 201	8 /	191 136	187212	212 207		
		49. 170	165 16	-+	155 36		2762		
1		134 145	129 129 12	24	119 114	107 128	140 135		
		20.	057 0		007 5 002		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
10. PERSON TO WHOM INQUIRE			02) 0		011 7 000	300(33%)	032 027		
	DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER 20 20 21 21 21 22 20 20 20 20 20 20 20 20 20 20 20 20								
THAN IN ITEM-1)	THAN IN ITEM-1) 380 380 377 377400 700 700 700 700 700 700 700 700 70								
De. Evans Waddell, Div.	Mgr.	49. 459	- 1 	59	55a 8 3 489	444 479	457 470		
SAIC		505	500	95,	400 45	480515	511 506		
4900 Water's Edge De.		Sall	536	,,,	TILITIE				
Wide 255		I harden man							

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.	- NONE-	- NOWE-
rents operature	°	Model 6011 MKI Corrent Meters		submittal contains raw, non-filtered data sets.
isuRe	d B			
				·
				·

C. DATA FORMAT

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

1. LIST RECORD TYPES CONTAINED IN THE TRA	
NODE File Type Ø15	
"Current Meter Data (components)	n.
April 1985 Version	
2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZ	ATION
15 in the last of the countries to	1 FAF 2 FAT' do Con FAM / F. L-OS-Madia
15 individual riles separated by	1 EOF. 2 EOF's define EOM (End-of-Medium).
	•
3. ATTRIBUTES AS EXPRESSED IN PL-1	ALGOL COBOL LANGUAGE
Z) FORTR	LANGUAGE
4. RESPONSIBLE COMPUTER SPECIALIST:	
NAME AND PHONE NUMBER Robert	J. Wayland (919) 851-8356
ADDRESS Science Hyplications I	international Corporation / 4900 Water's Edge Deive, Suite 2
Kaleigh, NC 37606 COMPLETE THIS SECTION IF DATA ARE O	
5. RECORDING MODE BCD BINAR	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH
X ASCII EBCDIO	c
	10. END OF FILE MARK
6. NUMBER OF TRACKS	₩ IBM
(CHANNELS) SEVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE
X NINE	ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
	SAIC/Raleigh Tape ID Number:
7. PARITY ODD	3.22/
EVEN	SP 12 Ø 7
8. DENSITY	
☐ 200 BPI 🔀 1600 BI	
556 BPI	3600
	13. LENGTH OF BYTES IN BITS
	i

RECORD FORMAT DESCRIPTION

** SEE ATTACHED ** RECORD NAME NODC File Type 015 15. POSITION 16. LENGTH 17. ATTRIBUTES 18. USE AND MEANING FROM - 1 MEASURED 14. FIELD NAME IN__ NUMBER UNITS (e.g., bits, bytes)

DATE NODC Users Guide	SECTION	PAGE
April 1985 NODC Users Guide	4.1.8	1

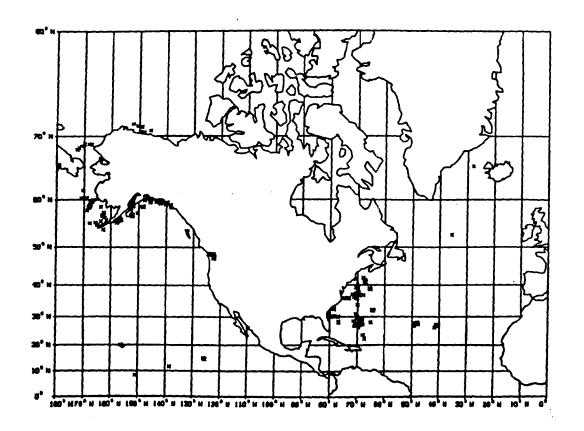
4.1.8 Current Meter Data (Components) (File 015)

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

Time period - 1962 - present

Description -

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



DATE	NODC Users Guide	SECTION	PAGE
April 1985		4.1.8	2
أبجيها والمتنازه والمواوات والواحول والوا	والمراوا والمناول والمناول والمراوي والمراوي والمراوي والمراوا والمارات والمراوا والمراوا والمراوا والمارات والمارات والمراوا	· · · · · · · · · · · · · · · · · · ·	

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
	SEQUENCE NUMBER	XXXXXX - USED FOR SORTING TEXT INFORMATION	54 55
MACT	ED DECODO	ALWAYS '2'	10
MAJI	ER RECORD 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	TIMES METER HAS BEEN USED	41
	(NODC USE)	TWO CHARACTERS FOR NODC INTERNAL USE	44
	AXIS ROTATION .	XXX - DEGREES CLOCKWISE FROM TRUE NURTH OF V AXIS - VALUES SHOULD BE O WHEN FINAL PROCESSED TO PROVIDE TRUE DIRECTION INFORMATION	46
	LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY	49
	NUMBER OF DETAIL RECORDS	ORIGINATOR XXXXXX - USED TO INDICATE NUMBER OF DETAIL RECORDS (3) TO FOLLOW THE MASTER RECORD (2)	55
	•	•	•
DETAI	L RECORD 1 METER NUMBER	ALWAYS '3' See record '1'	10
	DATE (GMT)	YYMMDD	16
	TIME (GMT)	XXXXXX (HOURS, MINUTES TO HUNDREDTHS)	22
	EAST-WEST CURRENT	XXXXXX - CM/SEC TO HUNDREDTHS WITH	28
	COMPONENT (U)	POSITIVE DIRECTIONS (EAST AND NORTH)	
		INDICATED WITHOUT PLUS SIGN - NEGATIVE	
		DIRECTIONS (WEST AND SOUTH) PRECEDED	
		mer meintes sich - ninchtinu tausan	

DATE March 1984

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SECTION

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4.1.8

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 CONDUCTIVITY BLANK	_ · · · · · · · · · · · · · · · · · · ·	45 50
SEQUENCE NUMBER	XXXXXX - USED FOR SORTING DATA RECORDS ORIGINATOR	54 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	XXXXXX - CM/SEC TO HUNDREDTHS WITH	28
COMPONENT (U)	POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN - DIRECTION TOWARD	
NORTH-SOUTH CURRENT	XXXXXX - CM/SEC TO HUNDREDTHS WITH	34
COMPONENT (V)	POSITIVE DIRECTIONS (EAST AND NORTH) INDICATED WITHOUT PLUS SIGN - NEGATIVE DIRECTIONS (WEST AND SOUTH) PRECEDED BY MINUS SIGN	
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 ("V") 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 WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED				INSTRU- MENT IS	
INSTRUMENT TYPE (MFR., MODEL NO.)		YOUR ORGANIZATION (V)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS	GEFORE OR AFTER USE (V)	BEFORE AND AFTER USE (√)	ONLY · AFTER REPAIR (√)	ONLY WHEN NEW	NOT CALI- BRATED
eneral oceanics, inc. Model Gøll Mk I	1/85		GENERAL OCEANICS, INC.						

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DATA DOCUMENTATION FORM

NOAA FORM 24-13

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 In	iternational Corpo	ration					
Maritime Technology Group/Physical Occanography Division							
4900 Water's Edge Deive		J'~7 7					
Site 355							
Raleigh NC 27606 2. EXPEDITION, PROJECT, O							
2. EXPEDITION, PROJECT, O	R PROGRAM DURING	WHICH	3. CRUISE NU	MBER(S) USED	BY ORIGINATOR	TO IDENTIFY	
Gulf of Mexico Physic	Program	CL8501 \	5C85Ø3	508519			
Gulf of Mexico Physical Oceanography Program, Year 4 (GOMPOP)				50.8512	SC8698		
1 Carrent							
(MMS Contract No. 14-	12-0001-29158)		NC 85Ø1	508513	SC 86\$1		
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO		6. PLATFORM	AND OPERATO	7. DA	TES	
1	(3.3., 3 , 200	., ,	PLATFORM	OPERATOR	FROM: MO,DAY,YR	TO: MO/DAY/YR	
	4.1.				I KUM.	10,	
	3H1P			116.0	1		
			USA	ACU	02/26/85	05/10/86	
8. ARE DATA PROPRIETARY	?				UARES IN WHIC		
N		CONT	AINED IN YOUR	SUBMISSION W	ERE COLLECT	ED.	
NO TES							
IF YES, WHEN CAN TH				GENERAL A	REA		
FOR GENERAL USE?							
PROGRAM (DNP)?	HONAL	100° 120° 1	148° 168° 188° 188° 14	r 120° 100° 80° 90	· 40· 20· 0· 20·	18° 88° 88° 188°	
(I.E., SHOULD THEY BE IN		278	7 27 208	Con Con	253288	284 279	
DATA CENTERS HOLDINGS TIONAL EXCHANGE?)	FOR INTERNA-	242	237 232	227	2217252	200 200	
		60.				212 207	
NO YES PAR	T (SPECIFY BELOW)	200	71	- Y2		╿╶╏╸ ┋╌	
)		المحداا	/(12_1) 44 1 1 1 1 1 1 1 1	IVI lead I I YOU			
		40 170	165 160	119			
		134 142	129 124 093 088	119 1	14 107127	140 135	
10 PERSON TO WHOM INQUIRE	ES CONCEDNING	20* 062	129 124 093 088 057 052	119 1 283 0 047 0	14 10 124 78 073 108 42 037 077	140 135 104 099 200	
10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRES		134 142	129 124 093 088 057 052 021 016 320 315	119 1 083 0 0A7 0 011 5	14	135 48 106 106 106 106 106 106 106 106 106 106	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD	SED WITH TELE-	20* 062	129 124 093 088 057 052 021 016	119 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 107 121 78 073 108 62 037 072 94 901034	140 135 104 099 28 000 037 027	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-1)	SSED WITH TELE- PRESS IF OTHER	20 062 CA	129 124 093 0088 057 052 021 016 320 315 056 4 351	119 129 10 10 10 10 10 10 10 10 10 10 10 10 10	14 100 120 1	140 135 44 100 20 20 20 20 20 20 20 20 20 20 20 20 2	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD	SSED WITH TELE- PRESS IF OTHER	20° 002 24 20° 128 20°	129 124 124 129 124 129 124 125 125 125 125 125 125 125 125 125 125	119 1 123 0 047 0 011 0 110 7 1346 3 1387 3	14 100 120 1	140 135 48- 140 200 28- 166 033 326 167 342 167 342 167 342 167 342 167 342 167 342 167 342 167 342	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-1) DR. Evans Waddell Div. A SAIC	SSED WITH TELE- PRESS IF OTHER	20° 002 24 20° 128 20°	129	119 123 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 100 120 1	140 135 44 100 20 20 20 20 20 20 20 20 20 20 20 20 2	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-1) DR. Evans Waddell Div. A SAIC 4900 Water's Edge Deive	SSED WITH TELE- PRESS IF OTHER	20° 062 0 06	129 124 093 088 057 092 021 016 356 3 351 992 387 473 464 459	119 123 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 100 120 1	140 135 48 135 48 135 135 135 135 135 135 135 135 135 135	
DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-1) DR. Evans Waddell Div. A SAIC	SSED WITH TELE- PRESS IF OTHER	20° 062 0 06	129 124 124 124 129 124 125 125 125 125 125 125 125 125 125 125	119 129 100 100 100 100 100 100 100 100 100 10	14 100 120 17	140 135 48 135 48 135 135 135 135 135 135 135 135 135 135	

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				
Temperature	°C	Sippican T-7 XBT	- NONE-	All data interpolated to a lm 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 GIVE METHOD OF IDENTIFYING EACH RECORD TYPE	L OF YOUR FILE
NODC File Type \$22	
"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. Way	land (919) 851-8356
ADDRESS <u>Science Applications International</u> Raleigh, NC 17606	1 Comparation / 4900 Waters Edge Drive, Swite 25
COMPLETE THIS SECTION IF DATA ARE ON MAGNET	
5. RECORDING MODE BINARY	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) 3/4 INCH
ASCII EBCDIC	
	10. END OF FILE MARK
6. NUMBER OF TRACKS SEVEN	⊠ <u>IBM</u>
MINE	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
	OF DATA TYPE, VOLUME NUMBER)
7. PARITY ODD	SAIC/Raleigh Tape ID No:
EVEN	5P12Ø4
8. DENSITY 200 BPI 1600 BPI	J11447
200 BPI 211600 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES
	3600
	13. LENGTH OF BYTES IN BITS
	12φ

RECORD FORMAT DESCRIPTION

RECORD NAME NODC File Type \$22 ** SEE ATTACHED ** 15. POSITION 16. LENGTH 17. ATTRIBUTES 18. USE AND MEANING 14. FIELD NAME FROM - 1 MEASURED (e.g., bits, bytes) NUMBER UNITS

NOAA FORM 11 11

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SECTION 4.1.10

PAGE 1

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

Geographic coverage - Worldwide oceans

Time period - 1969 - present

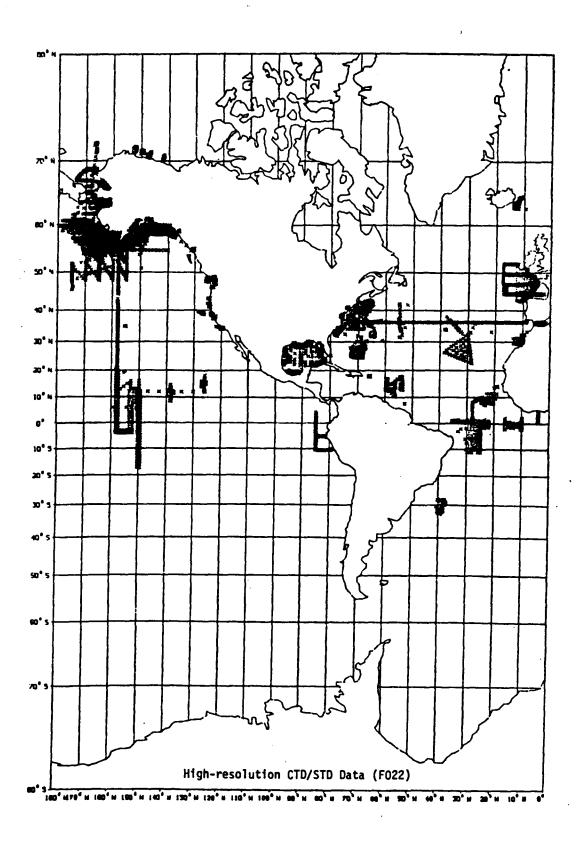
Description -

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 lowresolution 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)

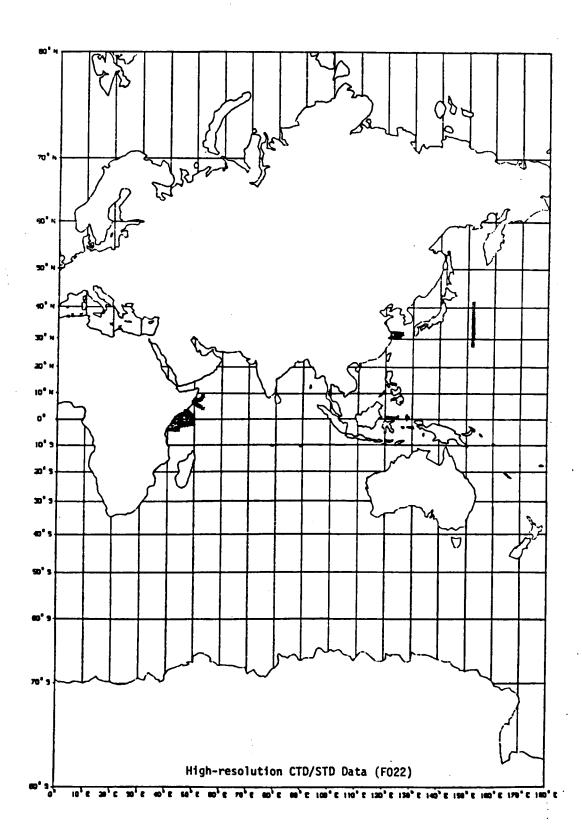
NODC Users Guide

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SECTION 4.1.10



DATE	NODC Hoore Guide	SECTION	PAGE
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File structure -

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

File format -

High-resolution CTD/STD Data (F022)

PARAMETER	DESCRIPTION	sc
TEXT RECORD CAST NUMBER	ALWAYS '1' FIVE-CHARACTER FIELD ASSIGNED BY THE ORIGINATOR - ALSO INCLUDED ON RECORD TYPES 2.3 AND 4	10 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 Latitude	SEE RECORD '1' DDMMXX PLUS HEMISPHERE 'N' OR 'S' -	11 16
CATTIODE	MINUTES TO HUNDREDTHS	10
LONGITUDE	DDDMMXX PLUS HEMISPHERE 'E' OR 'W' - MINUTES TO HUNDREDTHS	23
CRUISE IDENTIFICATION	TEN-CHARACTER FIELD ASSIGNED BY THE	31
NUMBER OF SCANS	ORIGINATOR XXXXX - USED TO INDICATE NUMBER OF	41
DATE (GMT)	SCANS PER STATION (FIVE/RECORD) YYMMDD	46
TIME (GMT)	XXXX (HOURS AND MINUTES)	52
	ONE-DIGIT CODE - USE CODE 0216	56
SAMPLE INTERVAL	XXX - WHEN INDICATOR CODE-1 (EQUAL	57
JAMPEL INTERVAL	SPACED DEPTHS) - (METERS TO TENTHS)	J,
BAROMETRIC PRESSURE	XXXXX (MILLIBARS TO TENTHS)	60
WET BULB TEMPERATURE	XXXX NEGATIVE TEMPERATURES ARE PRECEDED	
	BY A MINUS SIGN ADJACENT TO TEMPERATURE	
DRY BULB TEMPERATURE	VALUE - DEG C TO TENTHS XXXX NEGATIVE TEMPERATURES ARE PRECEDED	
DKA BATO IEMLEWAIONE	BY A MINUS SIGN ADJACENT TO TEMPERATURE	99
	VALUE - DEG C TO TENTHS	
WIND DIRECTION	XX - TWO-DIGIT CODE - WMO 885/887 -	73
AIND DIKECTION	DIRECTION FROM - USE CODE 0110	73
WIND SPEED	XX (WHOLE KNOTS)	75
WEATHER	ONE-DIGIT CODE - WMO 4501 - USE CODE	77
	0108	• •
SEA STATE	ONE-DIGIT CODE - WMO 3700 - USE CODE	78
•	0109	
VISIBILITY	ONE-DIGIT CODE - WMO 4300 - USE CODE	79
	0157	
CLOUD TYPE	ONE-DIGIT CODE - WMO O500 - USE CODE O053	80
CLOUD AMOUNT	ONE-DIGIT CODE - WMO 2700 - USE CODE	81
THE STATE OF THE S	0105	
INSTRUMENT INFORMATION	TWENTY-CHARACTER FIELD FOR TYPE OF INSTRUMENT, SERIAL NUMBER, ETC	82
LOCATION NAME	SIX-CHARACTER NAME DETERMINED BY THE ORIGINATOR	102

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DEPTH TO BOTTOM	XXXXX (WHOLE METERS)	108
MAXIMUM DEPTH OF CAST Blanks	XXXX (WHOLE METERS)	113
DETAIL RECORD 1	ALWAYS '3'	10
CAST NUMBER	SEE RECORD '1'	11
DEPTH	XXXXX (METERS TO TENTHS)	16
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
TEMPERATURE	PRECEDED BY A MINUS SIGN ADJACENT TO	21
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	
SALINITY	XXXXX - PARTS PER THOUSAND TO	13 26
SACTIVITY	THOUSANDTHS	20
SIGMA-T	XXXX - TO HUNDREDTHS	31
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
30814 COMDITION	SCANNING DATA - USE CODE 0080	33
DEPTH	XXXXX (METERS TO TENTHS)	36
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
TEMPERATORE	PRECEDED BY A MINUS SIGN ADJACENT TO	4,
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	10
SALINITY	XXXXX - PARTS PER THOUSAND TO	46
JALINIT	THOUSANDTHS	40
SIGMA-T	XXXX - TO HUNDREDTHS	51
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
SCAN CUNDITION	SCANNING DATA - USE CODE 0080	. 55
DEPTH	XXXXX (METERS TO TENTHS)	56
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
TEMPERATORE	PRECEDED BY A MINUS SIGN ADVACENT TO	01
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	Je
SALINITY	XXXXX - PARTS PER THOUSAND TO	66
SACTIVE	THOUSANDTHS	00
SIGMA-T	XXXX - TO HUNDREDTHS	71
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
33811 30110111011	SCANNING DATA - USE CODE 0080	, 5
DEPTH	XXXXX (METERS TO TENTHS)	76
TEMPERATURE		81
TEMPERATORS	PRECEDED BY A MINUS SIGN ADJACENT TO	
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	16
SALINITY	XXXXX - PARTS PER THOUSAND TO	86
	THOUSANDTHS	
SIGMA-T	XXXX - TO HUNDREDTHS	91
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
30411 00110111011	SCANNING DATA - USE CODE OOBO	93
DEPTH	XXXXX (METERS TO TENIHS)	96
TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	10
1 EMP ERATORS	PRECEDED BY A MINUS SIGN ADJACENT TO	.0
	TEMPERATURE VALUE - DEG C TO THOUSANDTH	16
SALINITY	XXXXX - PARTS PER THOUSAND TO	100
SPESITE I	THOUSANDTHS	100
SIGMA-T	XXXX - TO HUNDREUTHS	111
SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
JUNIT 4411411	SCANNING DATA - USE CODE OOBO	
CEOUTHOE ANIMATE	YYYYY - HEED END CODTING DATA DECORDE	444

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DETA	IL 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 SCAN CONDITION	ONE CHARACTER CORE INDICATING METHOD OF	31
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF SCANNING DATA - USE CODE 0080	35
	DEPTH	XXXXX (METERS TO TENTHS)	26
	DISSOLVED CXYGEN	XXXXX - ML/L TO THOUSANDTHS	36
	TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	41 46
	BLANKS	AAAAA (PERCENT TO THOUSANDINS)	51
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	-
	30411 0010171011	SCANNING DATA - USE CODE 0080	33
	DEPTH	XXXXX (METERS TO TENTHS)	56
	DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	61
	TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	66
	BLANKS	ANANA (FERGERI TO THOUSAROTHS)	71
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	3441 6516111511	SCANNING DATA - USE CODE OOBO	/ 3
	DEPTH	XXXXX (METERS TO TENTHS)	76
	DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	81
	TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	86
	BLANKS	AAAAA (FERGENT TO THOUSANDTHS)	91
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	• • • • • • • • • • • • • • • • • • • •	SCANNING DATA - USE CODE 0080	-
	DEPTH	XXXXX (METERS TO TENTHS)	96
	DISSOLVED OXYGEN	XXXXX - ML/L TO THOUSANDTHS	10
	TRANSMISSIVITY	XXXXX (PERCENT TO THOUSANDTHS)	100
	BLANKS		11
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
		SCANNING DATA - USE CODE 0080	
	SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	110
	•		
0574	IL RECORD 3	ALMAVE /E/	40
DETA	CAST NUMBER	ALWAYS '5' SEE RECORD '1'	10
	DEPTH	XXXXX (METERS TO TENTHS)	16
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	21
	ICMPERATURE	PRECEDED BY A MINUS SIGN ADJACENT TO	2 ;
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	c
	CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
	BLANKS	AAAA (MMINO/CM TO THOUSANDTIIS)	31
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
	30411 03110111011	SCANNING DATA - USE CODE OOBO	55
	DEPTH	XXXXX (METERS TO TENTHS)	36
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
	TEN CHATONE	PRECEDED BY A MINUS SIGN ADJACENT TO	٠,
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	c
	CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	46
	BLANKS	ANALY CHILLES OF TO THOUSAND MIST	51
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
		SCANNING DATA - USE CODE 0080	33
	DEPTH	XXXXX (METERS TO TENTHS)	56
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	61
	ILMFERATORE	PRECEDED BY A MINUS SIGN ADJACENT TO	٠.
		TEMPERATURE VALUE - DEG C TO THOUSANDTHS	•
	CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	66
	BLANKS	AMMA (MARIO) ON TO THE ORIGINAL PROPERTY.	71
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
		SCANNING DATA - USE CODE OORO	. •
	DEPTH	XXXXX (METERS TO TENTHS)	76
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	81
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTHS	S
	CONDUCTIVITY	XXXXX (MMHO/CM TO THOUSANDTHS)	86
	BLANKS		91

NODC Users Guide

SECTION 4.1.10

	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
		SCANNING DATA - USE CODE OORO	96
	DEPTH	XXXXX (METERS TO TENTHS) XXXXX NEGATIVE TEMPERATURES ARE	101
	TEMPERATURE	PRECEDED BY A MINUS SIGN ADJACENT TO	.01
	•	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	,
			106
	CONDUCTIVITY	XXXXX (MMHd/CM to THOUSANDTHS)	111
	BLANKS		
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	פוו
		SCANNING DATA - USE CODE DOBO	
	SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116
DET	AIL RECORD 4	ALWAYS '6'	10
J	CAST NUMBER	SEE RECORD '1'	11
	PRESSURE	XXXXX (DECIBARS TO TENTHS)	
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	16 21
	TEMPERATURE		21
		PRECEDED BY A MINUS SIGN ADJACENT TO	
	CALINITY	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
	SALINITY	XXXXX - PARTS PER THOUSAND TO	26
		THOUSANDTHS	
	SIGMA-T	XXXX - TO HUNDREDTHS	31
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	35
		SCANNING DATA - USE CODE 0080	
	PRESSURE	XXXXX (DECIBARS TO TENTHS)	36
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	41
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTHS	;
	SALINITY	XXXXX - PARTS PER THOUSAND TO	46
		THOUSANDTHS	
	SIGMA-T	XXXX - TO HUNDREDTHS	51
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	55
		SCANNING DATA - USE CODE 0080	
	PRESSURE	XXXXX (DECIBARS TO TENTHS)	56
	TEMPERATURE	· · · · · · · · · · · · · · · · · · ·	61
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTHS	Ł
	SALINITY		66
	UNCLUIT!	THOUSANDTHS	•
	SIGMA-T	XXXX - TO HUNDREDTHS	71
	SCAN CONDITION		
	3CAIA COMDITION	SCANNING DATA - USE CODE 0080	, 5
	PRESSURE	XXXXX (DECIBARS TO TENTHS)	76
	= _ =		81
	TEMPERATURE		81
		PRECEDED BY A MINUS SIGN ADJACENT TO	
	CA1 741774	TEMPERATURE VALUE - DEG C TO THOUSANDTHS	
	SALINITY		86
		THOUSANDTHS	
	SIGMA-T	XXXX - TO HUNDREDTHS	91
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	95
		SCANNING DATA - USE CODE 0080	
	PRESSURE	XXXXX (DECIBARS TO TENTHS)	96
	TEMPERATURE	XXXXX NEGATIVE TEMPERATURES ARE	101
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTHS	į.
	SALINITY	XXXXX - PARTS PER THOUSAND TO	106
		THOUSANDTHS	
	SIGMA-T	XXXX - TO HUNDREDTHS	111
	SCAN CONDITION	ONE-CHARACTER CODE INDICATING METHOD OF	
		SCANNING DATA - USE CODE 0080	
	SEQUENCE NUMBER	XXXXX - USED FOR SORTING DATA RECORDS	116

NODC Users Guide

SECTION 4.1.10

PAGE 8

10

ETAIL RECORD 5	i	ALWAYS '7'	10
CAST NUMBE		SEE RECORD '1'	11
PRESSURE		XXXXX (DECIBARS TO TENTHS)	16
TEMPERATUR	!E	XXXXX NEGATIVE TEMPERATURES ARE	21
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	5
CONDUCTIVI	TY	XXXXX (MMHO/CM TO THOUSANDTHS)	26
BLANKS			31
SCAN CONDI	TION	ONE-CHARACTER CODE INDICATING METHOD OF	35
•		SCANNING DATA - USE CODE 0080	-
PRESSURE	•	XXXXX (DECIBARS TO TENTHS)	36
TEMPERATUR	₽Ε	XXXXX NEGATIVE TEMPERATURES ARE	41
		PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	•
CONDUCTIVI	TV	XXXXX (MMHO/CM TO THOUSANDTHS)	46
BLANKS	• •	AAAAA (Mining Cit. 10 111003AND (113)	51
SCAN CONDI	TION	ONE-CHARACTER CODE INDICATING METHOD OF	
		SCANNING DATA - USE CODE 0080	-
PRESSURE		XXXXX (DECIBARS TO TENTHS)	56
TEMPERATUR	F	XXXXX NEGATIVE TEMPERATURES ARE	61
TOM CHATON	•	PRECEDED BY A MINUS SIGN ADJACENT TO	٠.
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	•
CONDUCTIVI	TV	XXXXX (MMHO/CM TO THOUSANDTHS)	66
BLANKS	. • •	TATALA (TIME TO THOUGHTS)	71
SCAN CONDI	TION	ONE-CHARACTER CODE INDICATING METHOD OF	
JOHN COMO		SCANNING DATA - USE CODE CORO	. •
PRESSURE		XXXXX (DECIBARS TO TENTHS)	76
TEMPERATUR	F	XXXXX NEGATIVE TEMPERATURES ARE	81
TE-III GIVATOR	•	PRECEDED BY A MINUS SIGN ADJACENT TO	
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	5
CONDUCTIVI	TY	XXXXX (MMHD/CM TO THOUSANDTHS)	86
BLANKS	• • •	AAAAA (MINIO) OM TO THOUSANDTHIS)	91
SCAN CONDI	TION	ONE-CHARACTER CODE INDICATING METHOD OF	
JOM 1 301151		SCANNING DATA - USE CODE OOBO	-
PRESSURE		XXXXX (DECIBARS TO TENTHS)	96
TEMPERATUR	F	XXXXX NEGATIVE TEMPERATURES ARE	101
TEIN EINNIGH	•	PRECEDED BY A MINUS SIGN ADJACENT TO	. •
		TEMPERATURE VALUE - DEG C TO THOUSANDTH	•
IVITOUDOO	TV	XXXXX (MMHO/CM TO THOUSANDTHS)	106
BLANKS	• • •	7,7,7,7,7,7 (Fill-10) (Fill-10)	111
SCAN CONDI	TION	ONE-CHARACTER CODE INDICATING METHOD OF	115
JUNIT COND.		SCANNING DATA - USE CODE OOBO	
SEQUENCE N	NIMRED	XXXXX - USED FOR SORTING DATA RECORDS	116
25.425.425 14		THE THE PERSON OF THE PERSON O	

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SECTION 4.1.10

DETAIL RECORD G	ALWAYS '8'	10
CAST NUMBER	SEE RECORD '1'	1.1
PRESSURE	XXXXX - (DECIBARS TO TENTHS)	16
TEMPERATURE	XXXXX - DEG C TO THOUSANDTHS	21
SALINTTY	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 OOBO	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 OOBO	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
CECHENCE MIMPED	YYYYY - HEED FOR CONTINO DATA DECORDE	440

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 ("\(\sigma'\)") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRU- MENT IS
INSTRUMENT TYPE (MFR., MODEL NO.)		YÓUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW	NOT CALI÷ BRATED
Sippican/BethySystems XBT System	UNKNOWN		UNKNOWN						
									 -
						,			
					,				

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

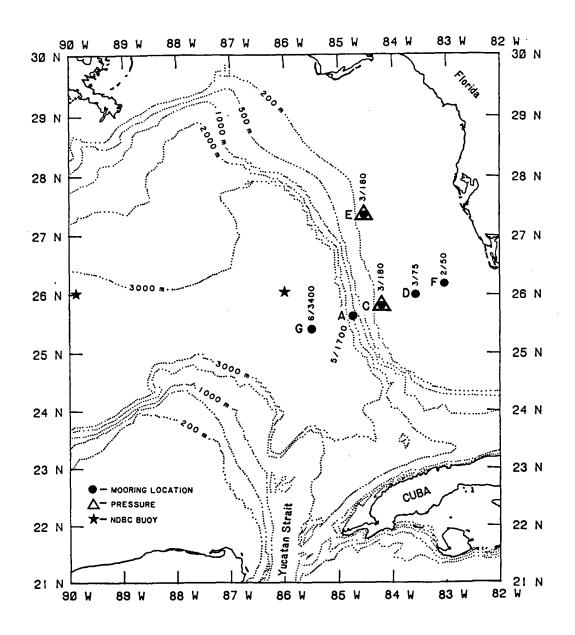
Volume I: Current Meter Observations (Part 1)

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





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

MOA1 MOA2 MOA3 MOA4	172H 400H 738H		
MOA3 MOA4		harman land to the state of the	
MDA4	738H		
			-
MOA5	1100H		:
	16001		-
			-
MOCI	50H		
HOC2	100M	· · · · · · · · · · · · · · · · · · ·	
HOC3	17 9 H	-	-
H001	30H	F	-
H002	60F1		-
HDA1	1711		•
MDA2	50H		-
MDA3	718		-
			•
MOEI	5011	,	-
MOE2	1001	b	-
MOE3	179H		-
			-
HOF 1	17M	 	-
HOF2	40ff		-
			-
MOGI	177H	F	-
HOGS	397H		-
noc3	703H	F1	-
MOG4	15658		-
MOG5	2364H		-
mog6	3174M		-
			-
MOH1	5011	1 1	-
HOHS.	1000	<u> </u>	-
			-
MO11	98		-
M015	179		-
			-
MOUI	122H		-
MONS	178		4
		FRANJJASONDJFRANJJASONDJFRANJJASONDJFRANJ	لعبيب

←YEAR 1———YEAR 2———YEAR 4———

, NO	DC 015 F	DRMAT ALC	OCKSIZE = 3600	(BYTES)	RECORD LENGT	TH = 60 (BYTES) DENSITY = 1600 (BPI)
	PE FILE UMĐĘR	MOORING	INSTRUMENT DEPTH(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION
,	1	MOA1	172.0	1697.0	18027	EASTERN GULF MOORING A INST 1
	2	MOA1	172.0	1697.0	17648	EASTERN GULF MOORING A INST 1
,	3	SAOM	400.0	1697.0	18032	EASTERN GILF MOORING A THST 2
,	4	SAOM	400.0	1697.0	17672	EASTERN GILF MOORING A THAT 2
	5	MAZ	738.0	1697.0	18029	EASTERN GULF MOORING A INST 3
•	6 .	MOA3	738.0	1697.0	17670	EASTERN GULF MOORING A INST 3
,	7	MOA4	1100.0	1697.0	18032	EASTERN GULF MOORING A INST 4
	8	MOA4	1100.0	1697.0	13254	EASTERN GULF MOORING A INST 4
•	9	MOA5	1600.0	1697.0	18023	EASTERN GULF MOORING A INST 5
,	10	MOC1	50.0	180.0	4931	EASTERN GULF MOORING C INST 1
	11	MOC1	50.0	180.0	4075	EASTERN GULF MOORING C INST 1
•	12	MOC 1	50.0	180.0	17780	EASTERN GULF MOORING C INST 1
,	13	MOC1	50.0	180.0	17781	EASTERN GULF MOORING C INST 1
	14	MOC2	100.0	180.0	4931	EASTERN GULF MOORING C INST 2
•	15	MOC2	100.0	180.0	4052	EASTERN GULF MOORING C INST 2
,	16	MOCS	100.0	180.0	13323	EASTERN GULF MOORING C INST 2
	17	MOC3	179.0	180.0	9863	EASTERN GULF MOORING C INST 3
•	18	MOC3	179.0	180.0	8177	EASTERN GULF MOORING C INST 3
,	19	MOC3	179.0	180.0	8173	EASTERN GULF MOORING C INST 3
	20	MOC3	179.0	180.0	12315	EASTERN GULF MOORING C INST 3
e ^{ge}	21	MOC3	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	MDAT	17.0	75.0	4076	EASTERN GULF MOORING D INST 1
	24	MDA1	17.0	75.0	1364	EASTERN GULF MOORING D INST 1

J	NODC 015 F	ORMAT BL	OCKSIZE = 3600	(BYTES)	RECORD LENG	TH = 60 (BYTES) DENSITY = 1600 (BP	I)
Ú	TAPE FILE	MOORING In	INSTRUMENT Depţh(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION	
Ų.	25	MDAZ	50.0	75.0	4932	EASTERN GULF MOORING D INST 2	
	26	MDA2	50.0	75.0	3054	EASTERN GULF MOORING D INST 2	
ال	27	MDAZ	50.0	75.0	8848	EASTERN GULF MOORING D INST 2	
ال	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	
ر	30	MDA3	71.0	75.0	8169	EASTERN GULF MOORING D INST 3	
ر	31	MOEL	50.0	180.0	4870	EASTERN GULF MOORING E INST 1	
	32	MOE1	50.0	180.0	4158	EASTERN GULF MOORING E INST 1	
ز	33	MOET	50.0	180.0	17498	EASTERN GULF MONRING E INST 1	
ر	34	MOES	100.0	180.0	4866	EASTERN GULF MOORING E INST 2	
	35	MOES	100.0	180.0	4158	EASTERN GULF MOORING E INST 2	
3	36	MOES	100.0	180.0	17311	EASTERN GULF MOORING E INST 2	
į	37	M0E5	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	,
Þ	40	MOES	179.0	180.0	17502	EASTERN GULF MOORING E INST 3	
	41	MOF1	17.0	50.0	4933	EASTERN GULF MOORING F INST 1	
۲	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

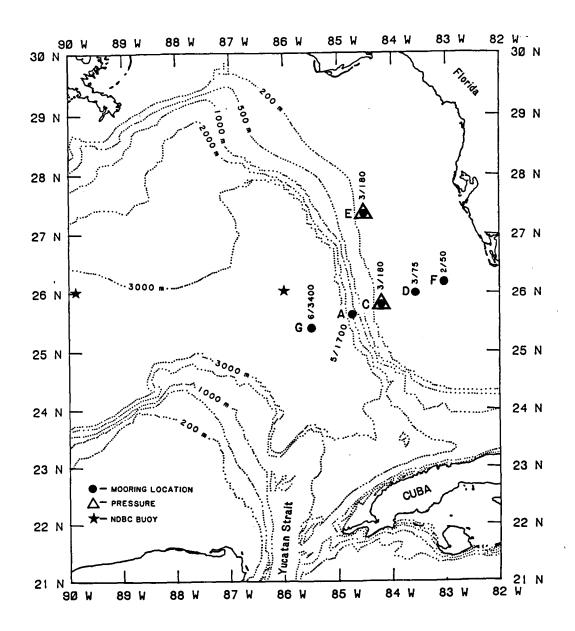
Volume II: Current Meter Observations (Part 2)

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





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

MOAT	172H		and comments
MOVS	400f7		
MOA3	738H	I	
MOA4	11008	T	<u> </u>
HOA5	15007		
			:
HOCI	50n	<u> </u>	
MOC2	1006		
MOC3	179H	[
11001	30M		
HOD2	600		
MDAI	1711		
HDA2	50H		<u>.</u> .
MDA3	718		;-
		F	;
MOEI	50H		<u> </u>
MOE2	1000		
MOE3	1796		
			74
MOF 1	178	<u> </u>	<u></u>
MOF2	40f1		
		h	·• ,
MOGI	177H	r <u>-</u>	;
nog2	397H	-	<u>:</u>
moG3	203H	F	<u> </u>
MOG4	1565/1	F	
HOG5	2364H		
MOG6	3174H	· <u></u>	
MOHT	50n	-	
MOH2	1000		
			;
MOTI	961		-
m012	178		-
		-	-
MOJI	12211		
MO75	179		
		JFMANJJASONOJFMANJJASONOJFMANJJASO	<u> </u>

 \leftarrow YEAR 1 \longrightarrow YEAR 2 \longrightarrow YEAR 4 \longrightarrow



SAIC/RALEIGH TAPE REEL NUMBER: 3P1207

NODE 015 F	DRMAT BL	OCKSIZE = 3600 (BYTES)		RECORD LENGTH = 60 (BYTES) DENSITY =: 1600 (BP)		
TAPE FILE	MOORING	INSTRUMENT DEPTH(M)	WATER DEPTH(M)	NUMBER OF RECORDS	RECORD DESCRIPTION	
1	MOGŽ	397.0	3200.0	4420	EASTERN GULF MOORING G INST 2	
2	MOGŻ	397.0	3200.0	13622	EASTERN GULF MOORING G INST 2	
3	MOGZ	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	MOGS	703.0	3200.0	17598	EASTERN GULF MODRING G ÎNST 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	M0G4	1565.0	3200.0	17597	EASTERN GULF MOORING G INST 4	
10	M065	2364.0	3200.0	18058	EASTERN GILLE MOORING G INST 5	
11	MOGS	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	M066	3174.0	3200.0	18058	EASTERN GULF MOORING G THAT 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	

GOMI

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.
PALEIGH, 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

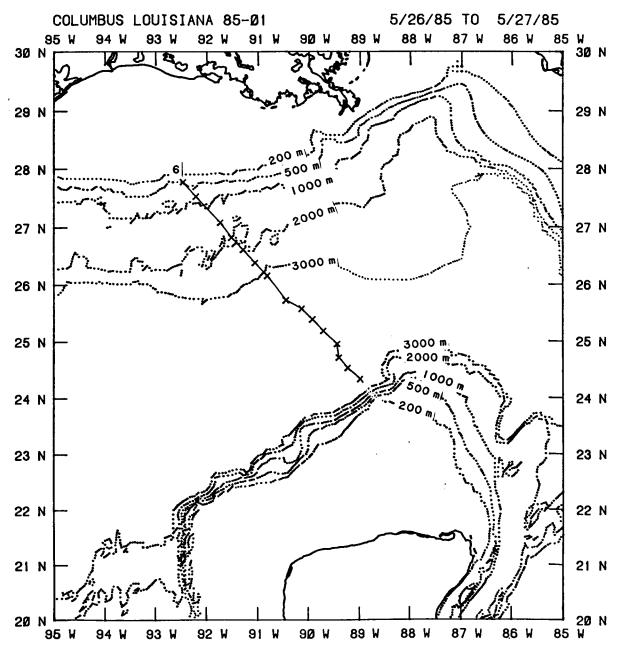
MMS Contract No. 14-12-0001-29158

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Raleigh, North Carolina 27606
(919) 851-8356

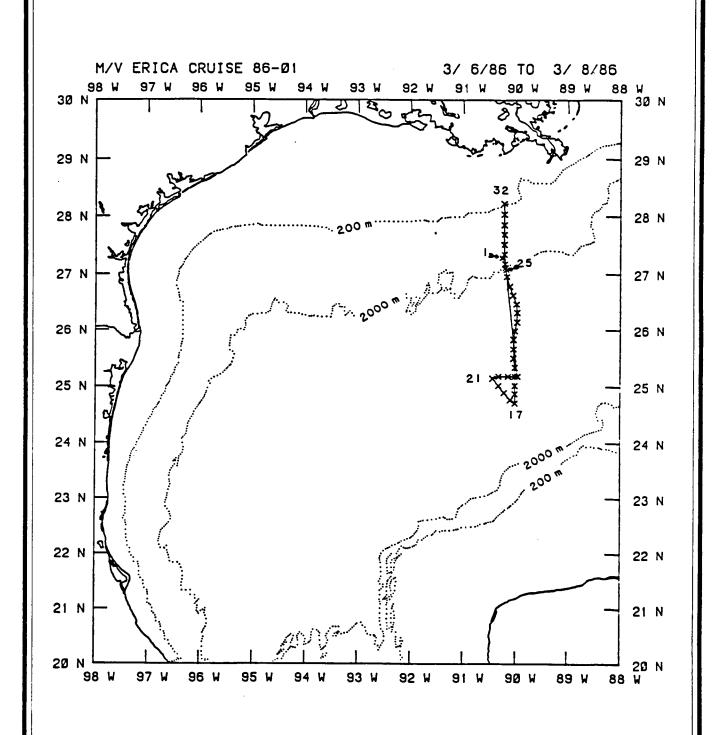
August 1989

TAPE NUMBER: SP1204



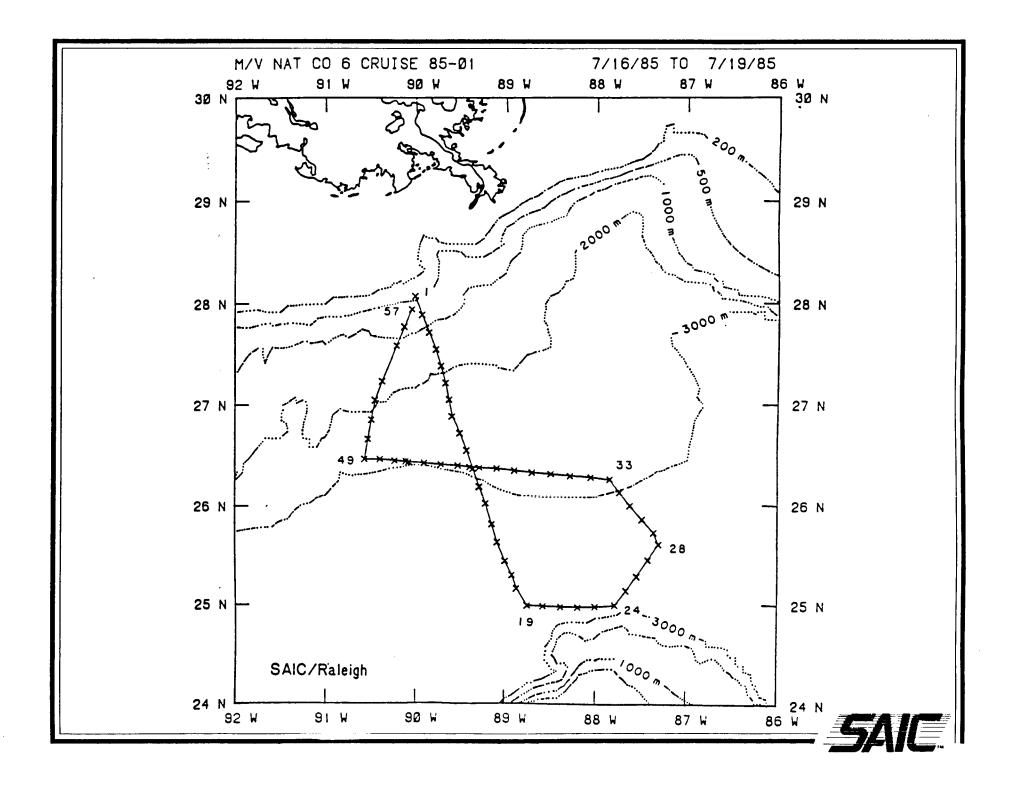


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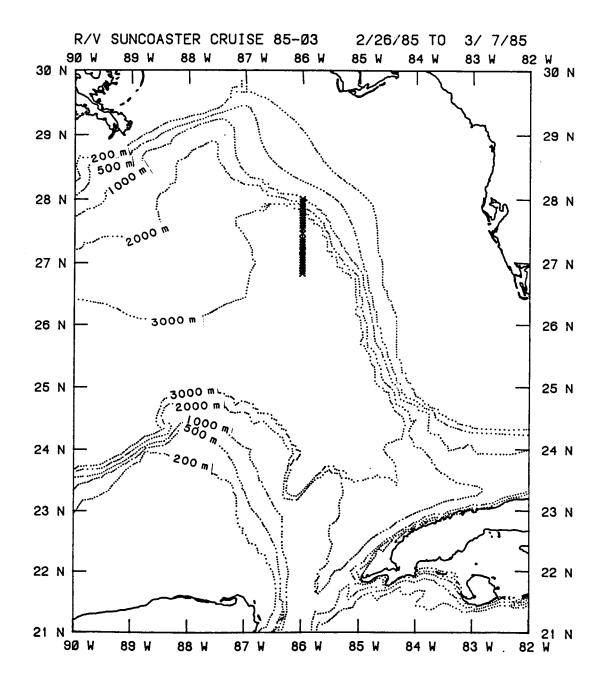




TAPE NUMBER: SP1204

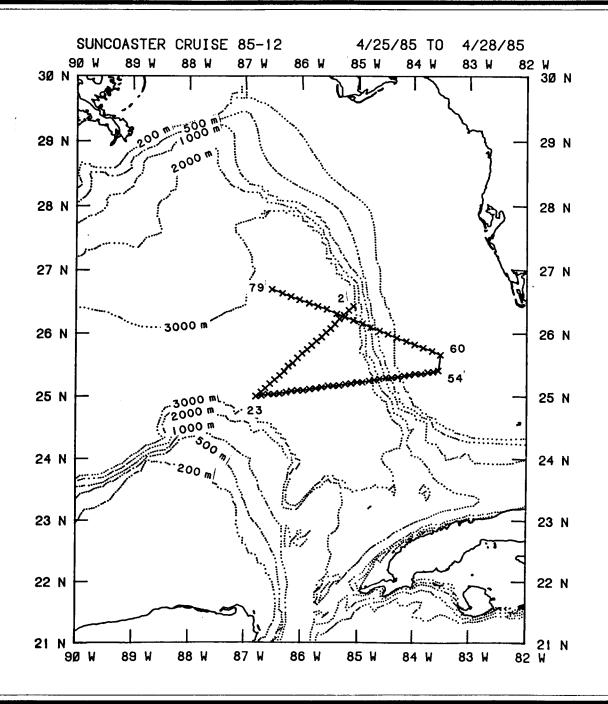


TAPE NUMBER: SP1204



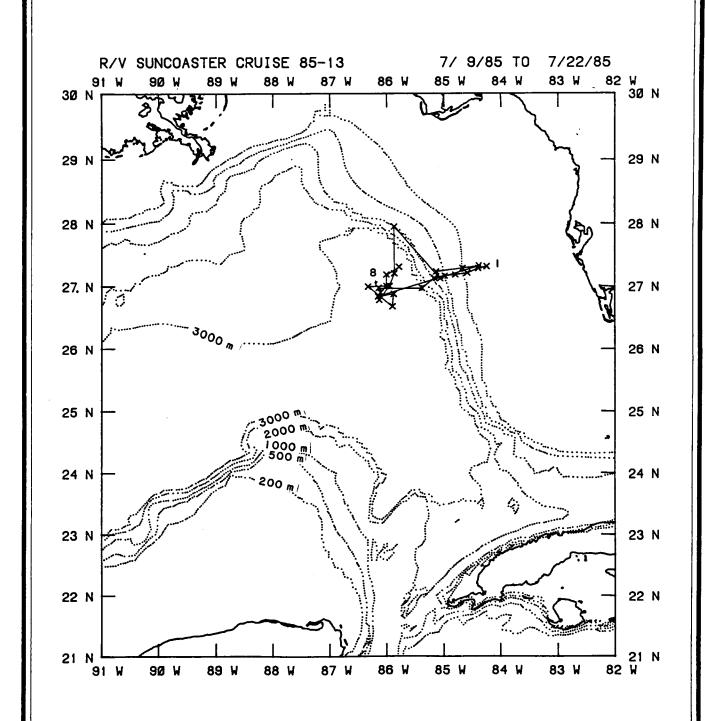


TAPE NUMBER: SP1204



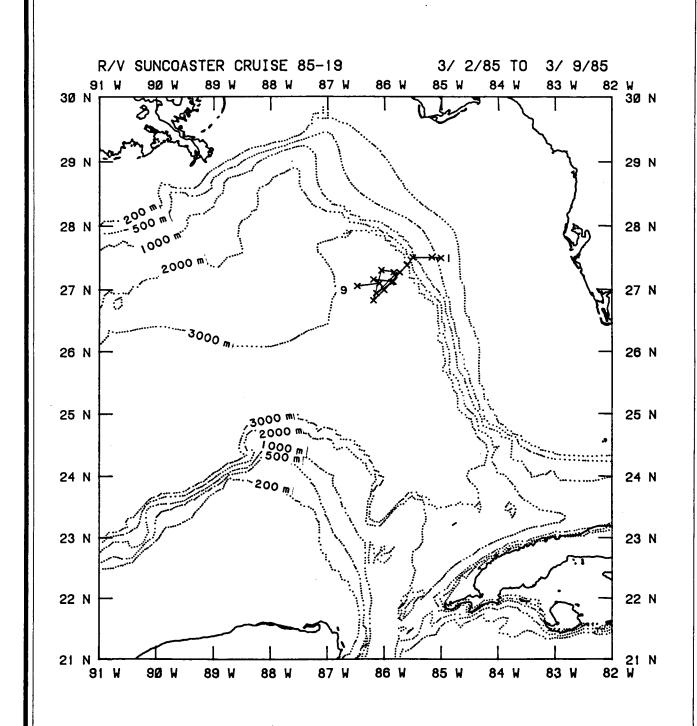


TAPE NUMBER: SP1204



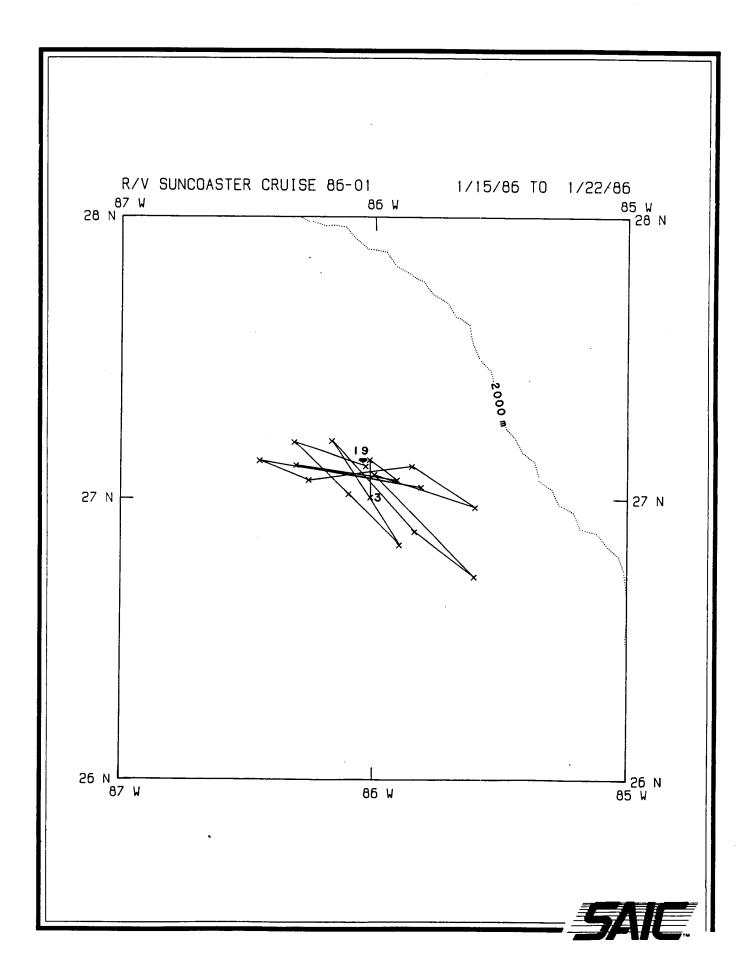


TAPE NUMBER: SP1204

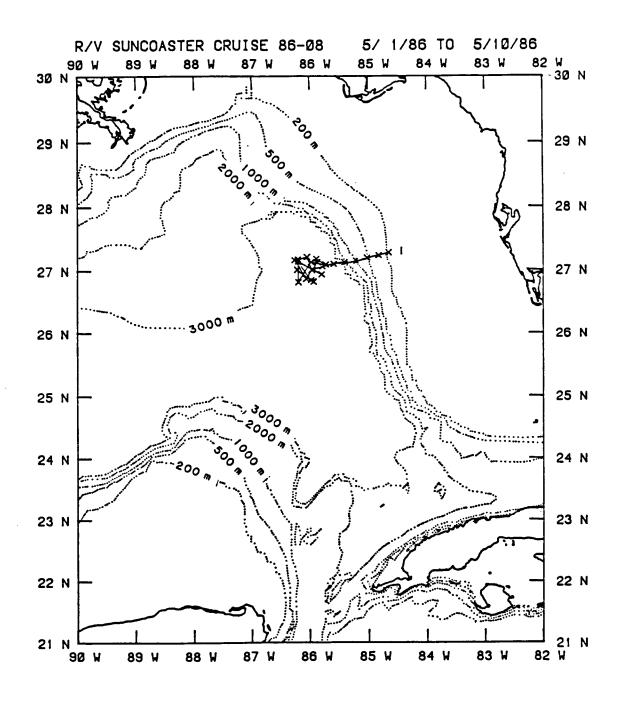




TAPE NUMBER: SP1204



TAPE NUMBER: SP1204







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 $\leftarrow NO$ 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.

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

Sincerely,

Robert J. Wayland Senior Meteorologist

Enclosures

MFR: ON 8-24-87 Un Worldle apred of me that greed 500P data were still not submitted, and that ADCM data were still not sabmitted. Both me being papared now. Mong Brun

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,

Anthony R. Picciolo

Chief, Data Acquisition and Management Branch

Francis & hutchere / for

Enclosure

cc: Dr. M. Brown MMS/New Orleans w/ enclosure

cc: J. Sylvester NODC-Miami

:======================================										
ACCESS	REF			INST	PLAT	CRUISE	CRUISE	CRUISE	NUM	NUM
NUMBER	NUMBER	TYPE	CODE			NO	START	END	STA	REC
8900186								02/04/86	176	12,349
8900186							10/22/85	10/25/85	39	5,208
	323072					PN-8502	•	10/25/85	18	181
8900186								02/03/86	45	472
8900186						AL8601		02/05/86	124	124
8900186						PN8502	10/22/85	10/27/85	23	23
8900186						H28601	08/17/86	08/22/86	93	93
8900186						AL8602		02/14/86	25	25
8900186						AL8603		05/14/86	111	111
8900186						AL8606		07/17/86	33	33
8900186						AL8607	•	09/03/86	16	16
						GOMYEAR3	•	11/13/85	67	67
8900186				312H			06/11/85	•	1	812
8900186				312H			06/11/85	05/04/86	1	15,694
8900186			0125		317F		06/11/85	05/04/86	1	15,694
8900186				312H		Q-1	• •	10/02/85	1	5,238
8900186				312H		Q-2	06/15/85	10/02/85	1	5,237
8900186					317F	-	10/20/85	05/02/86	1	9,287
8900186				312H		Q-3	06/15/85	10/19/85	1	6,053
8900186			0125	312H		Q-4	06/15/85	05/04/86	1	15,515
8900186				312H		R-1	06/15/85	10/21/85	1	6,165
8900186					317F		06/15/85	10/21/85	1	6,168
8900186				312H		R-3	06/15/85	10/21/85	1	6,169
8900186		F015	0125	312H		R-4	06/15/85	10/21/85	1	6,167
8900186				312H		R-5		10/21/85	1	6,168
8900186				312H		S-1	06/12/85	10/18/85	1	6,159
8900186				312H		S-2	06/12/85	08/30/85	1	3,808
8900186		F015		312H		S-2	11/02/85	05/04/86	1	8,764
8900186				312H		S-3	06/12/85	05/04/86	1	15,657
8900186						T-1	06/13/85	09/18/85	1	4,690
8900186				312H			06/13/85	05/02/86	1	15,543
8900186				312H			06/13/85	05/02/86	1	15,541
8900186						AL-8601	01/23/86	02/04/86	176	12,349
8900186						PN-8502	10/22/85	10/25/85	39	5,208
8900186				312H			06/12/85	10/18/85	1	6,156
8900186				312H			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



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.

Mr. Francis Mitchell August 17, 1989 page two

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

Sincerely,

Robert J. Wayland Senior Meteorologist

Enclosures

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

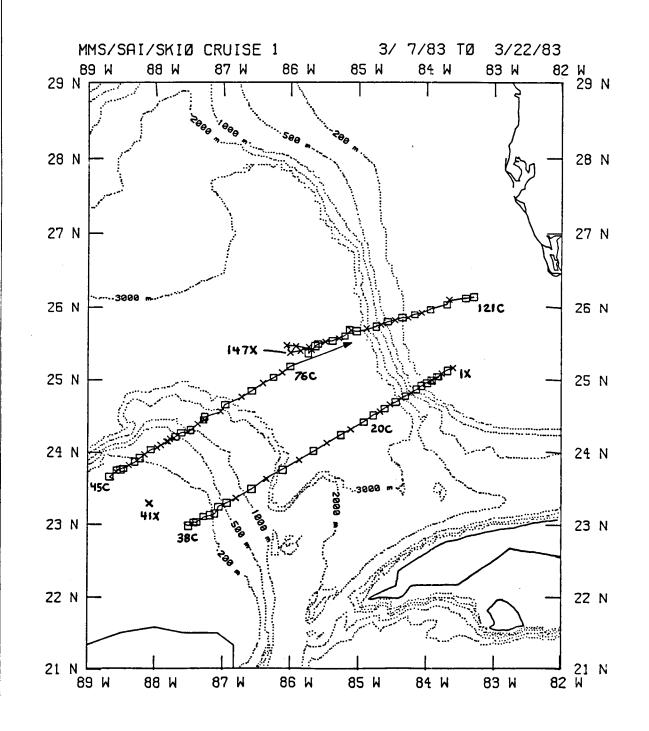
Volume I: March 1983 Hydrographic Cruise

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





TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

TAPE NUMBER: SP1210

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

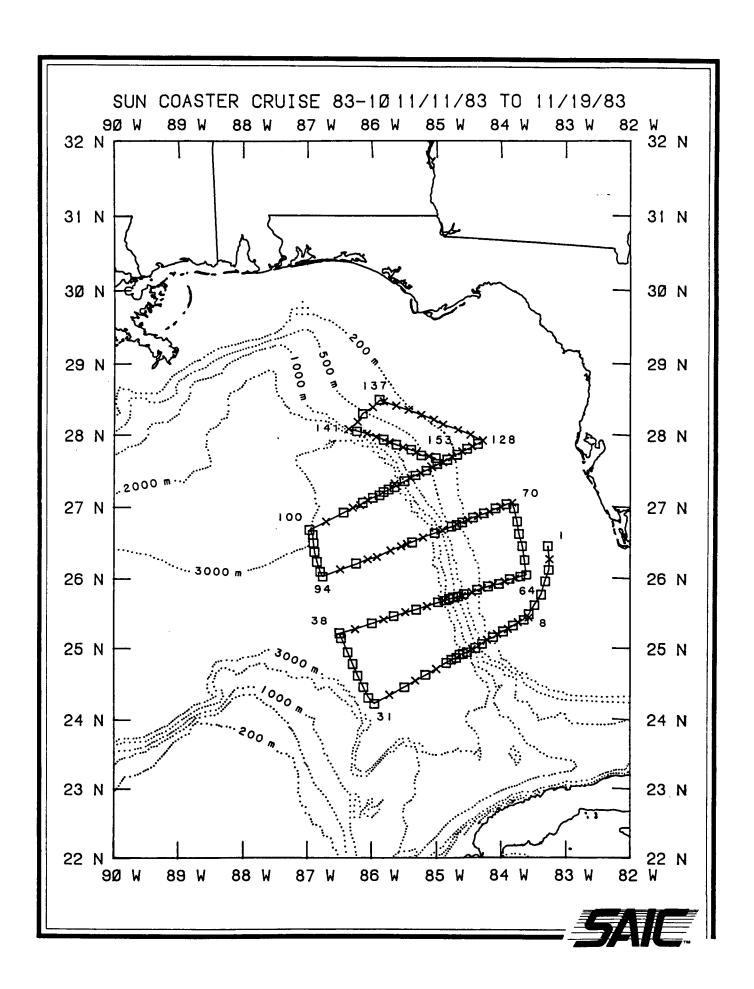
Volume II: November 1983 Hydrographic Cruise

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



TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

TAPE NUMBER: SP1210

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

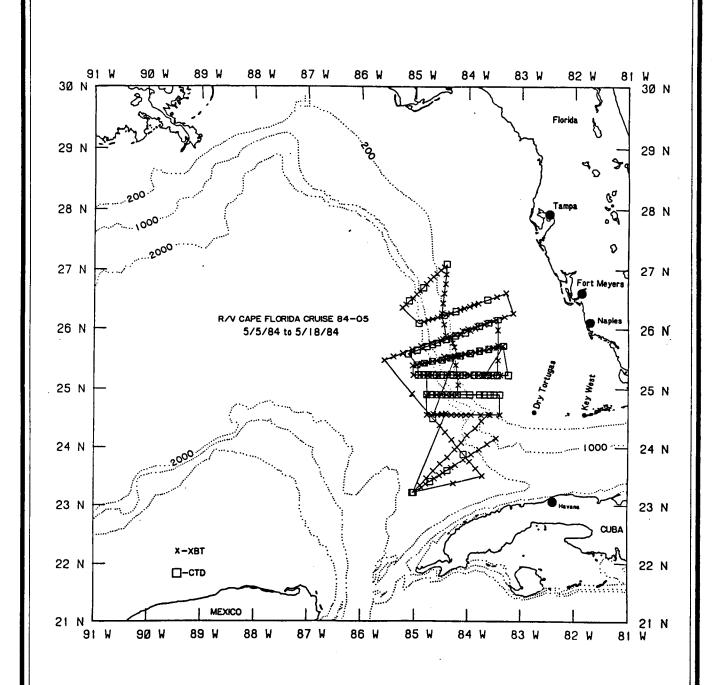
Volume III: May 1984 Hydrographic Cruise

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





TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

TAPE NUMBER: SP1210

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

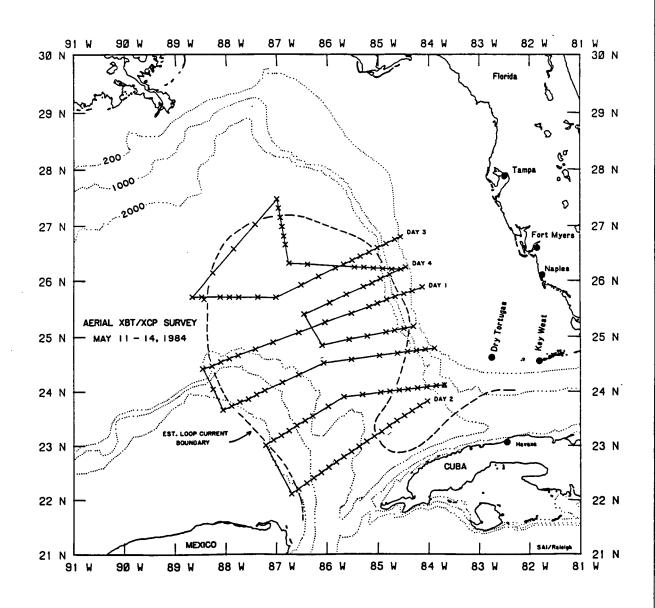
Volume IV: AXBT Survey Data

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





TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

TAPE NUMBER: SP1205

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

Volume V: Associated SOOP Cruise Data (Part 1)

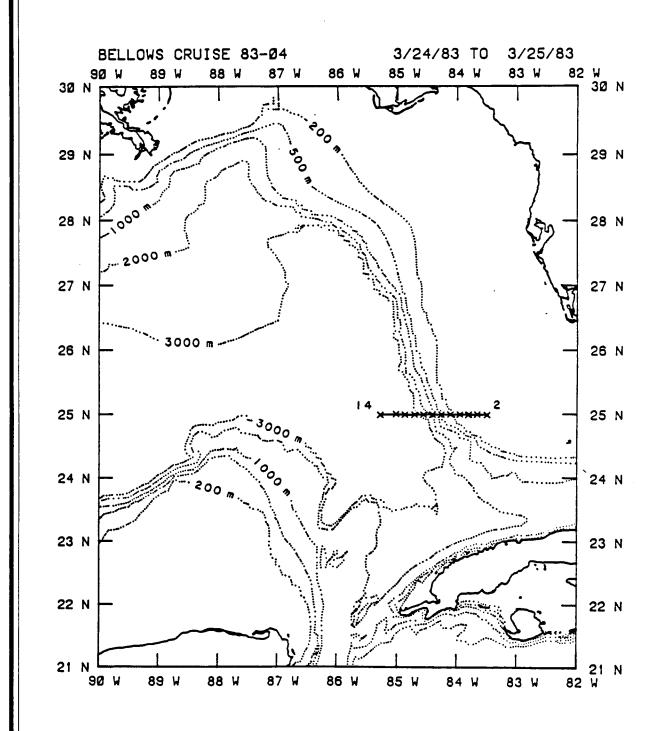
MMS Contract No. 14-12-0001-29158

Submitted by:

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

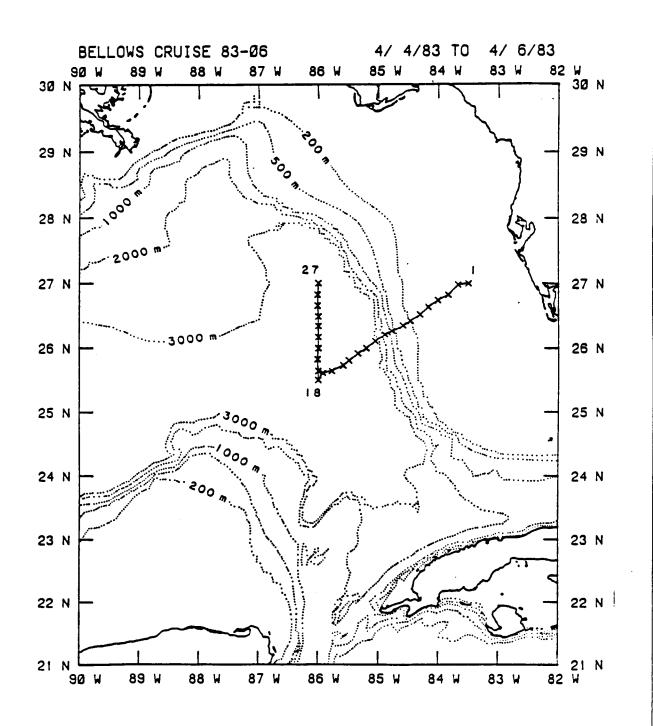
August 1989

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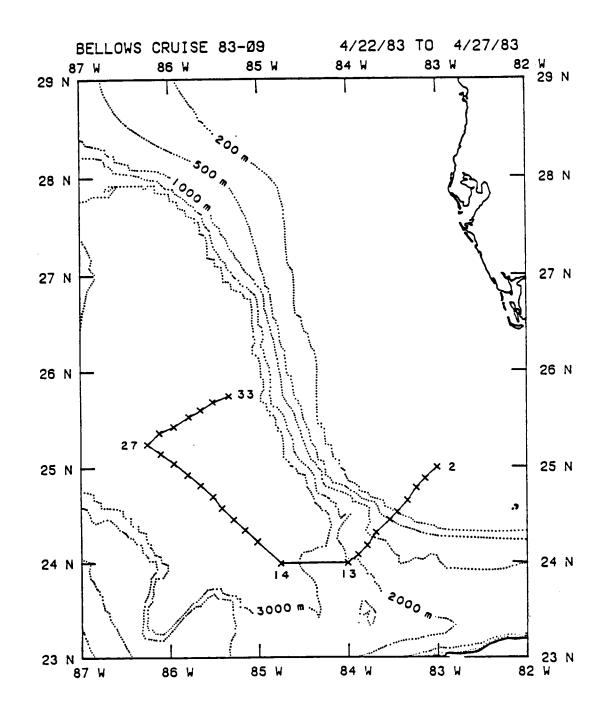


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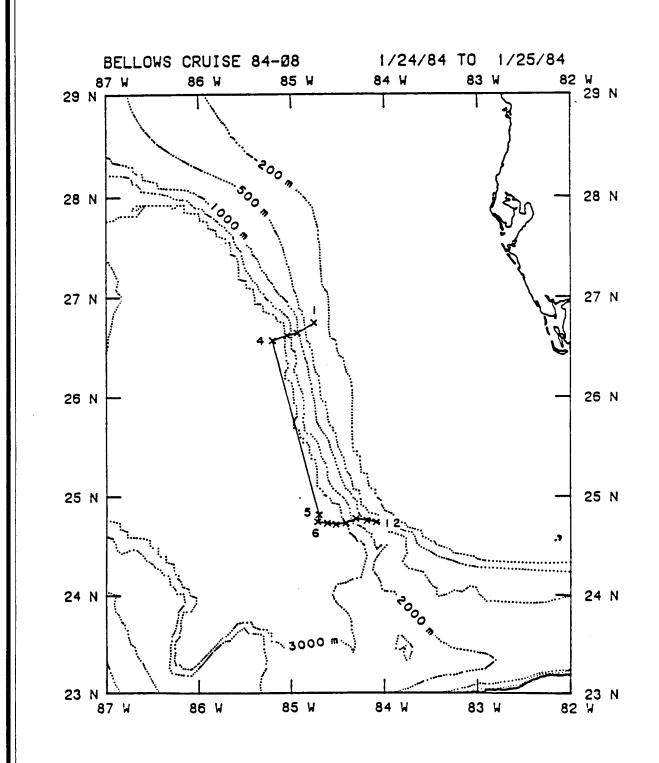


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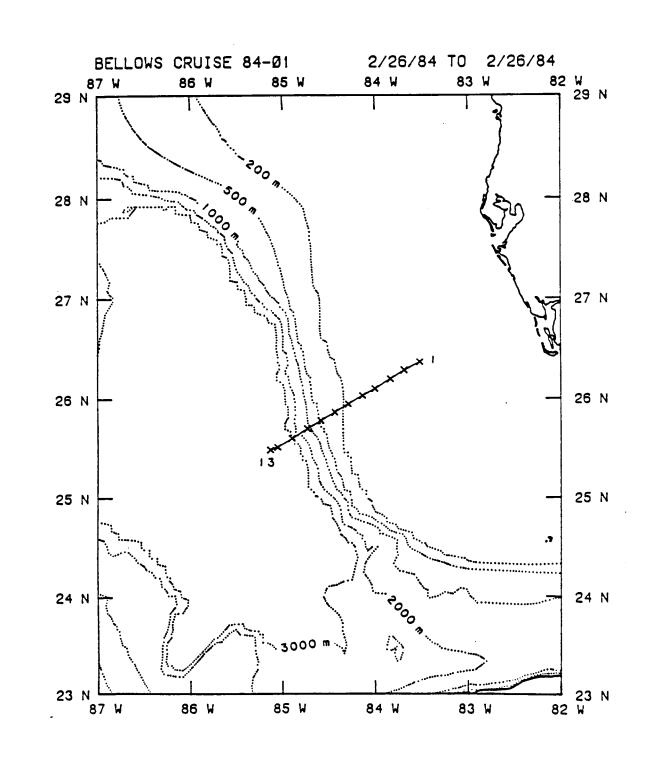


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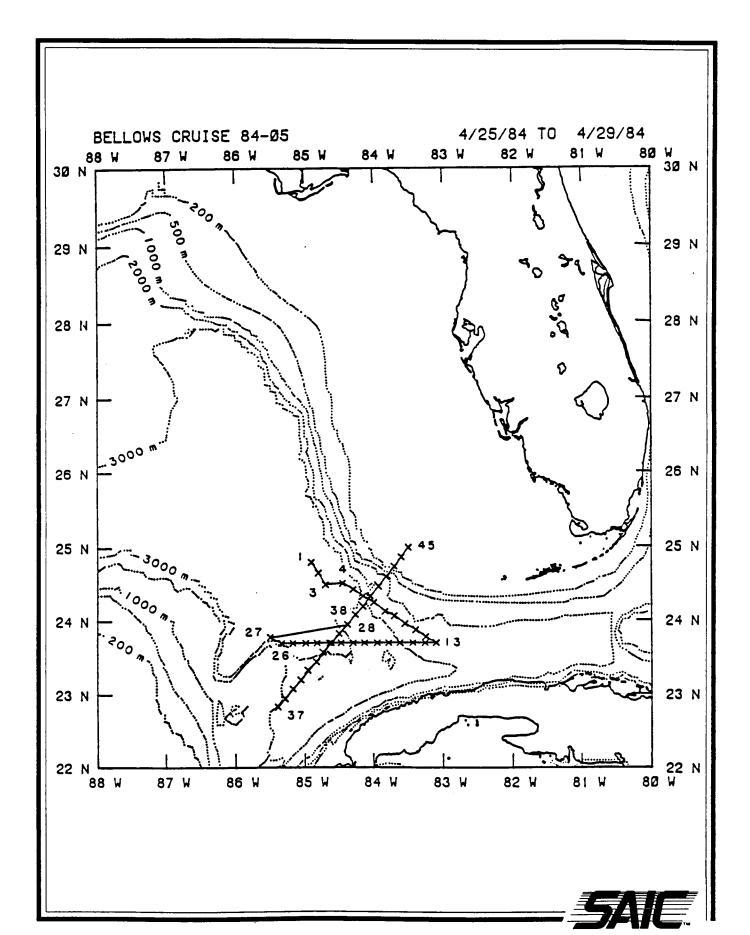


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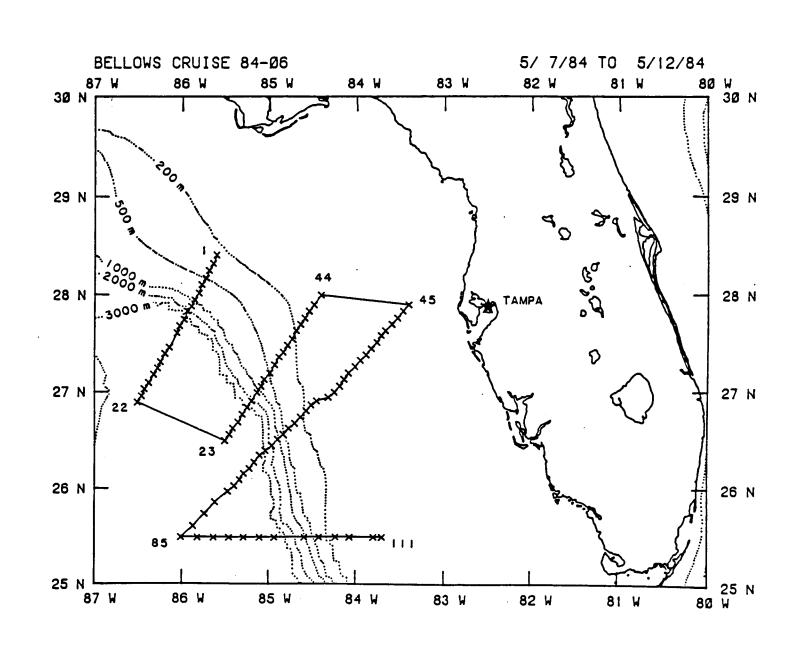




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Gulf of Mexico Physical Oceanography Program Program Years 1 & 2 - Eastern Gulf

Volume VI: Associated SOOP Cruise Data (Part 2)

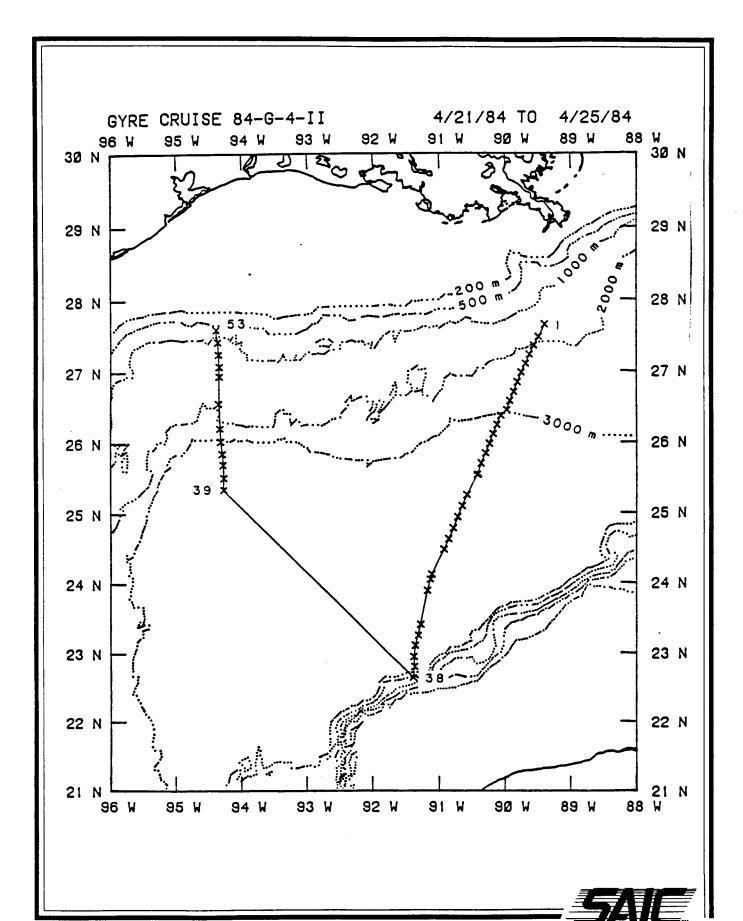
MMS Contract No. 14-12-0001-29158

Submitted by:

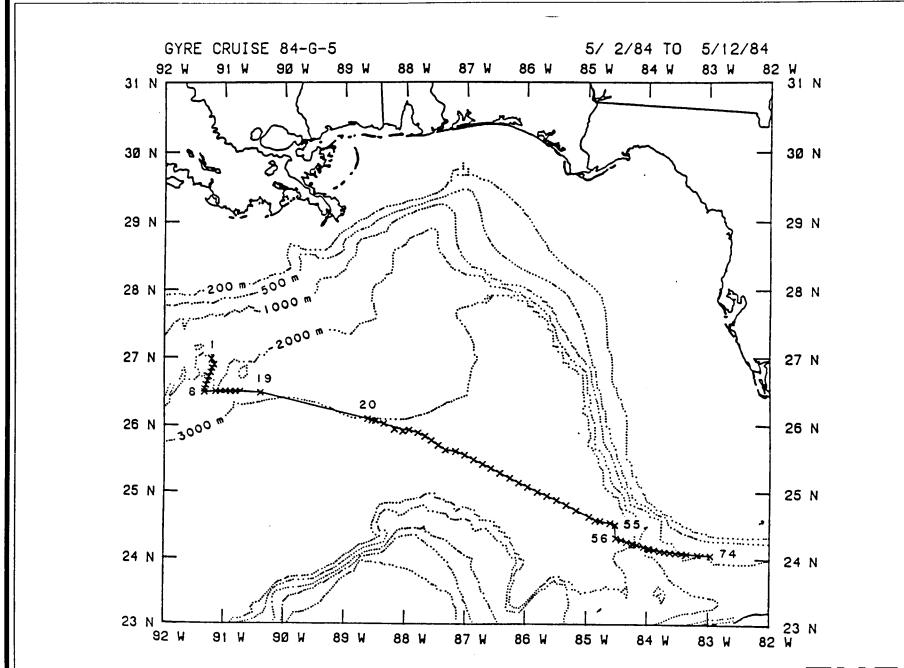
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

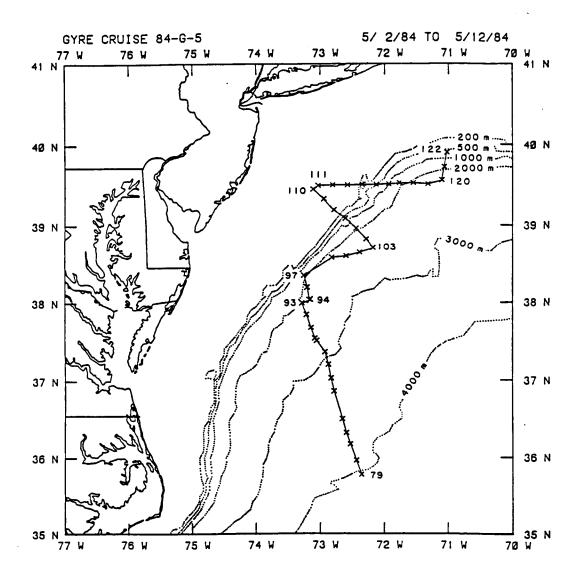
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TAPE NUMBER: SP1205

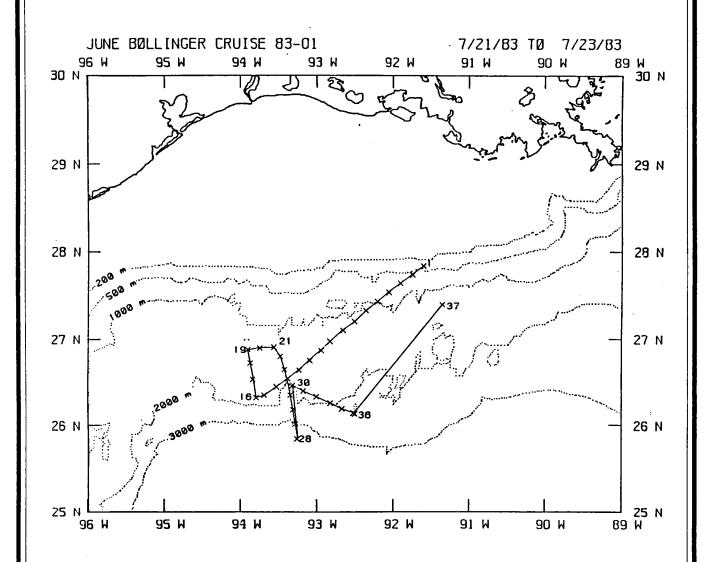






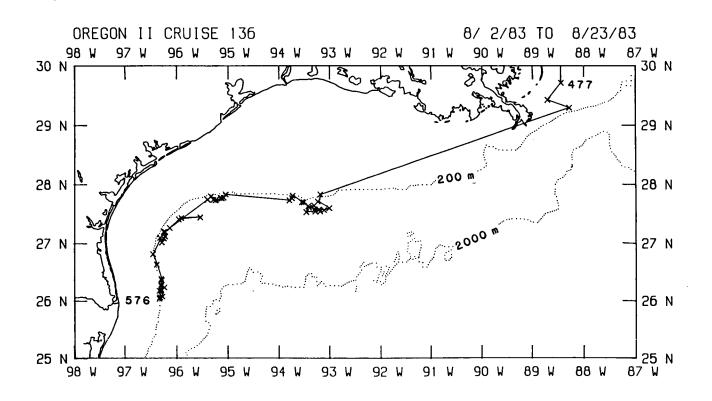


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TAPE NUMBER: SP1205





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

Volume VII: Associated SOOP Cruise Data (Part 3)

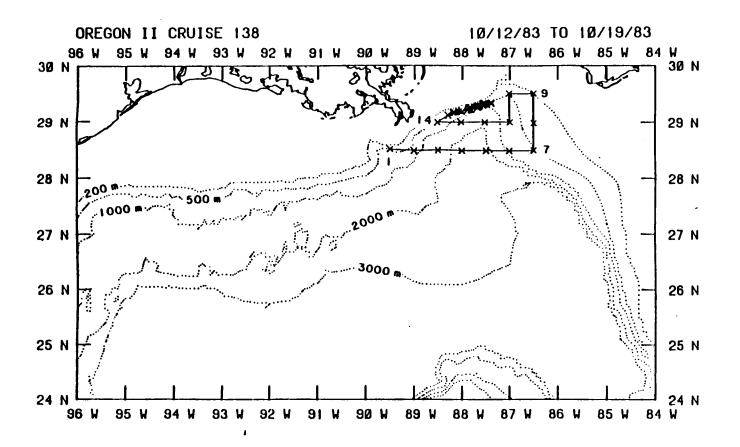
MMS Contract No. 14-12-0001-29158

Submitted by:

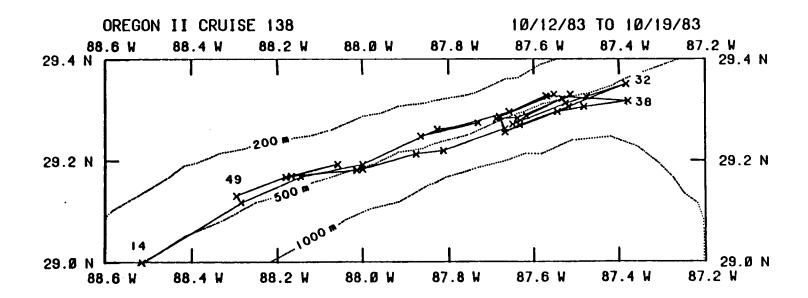
Science Applications International Corporation
Suite 255
4900 Water's Edge Drive
Raleigh, North Carolina 27606
(919) 851-8356

August 1989

TAPE NUMBER: SP1205

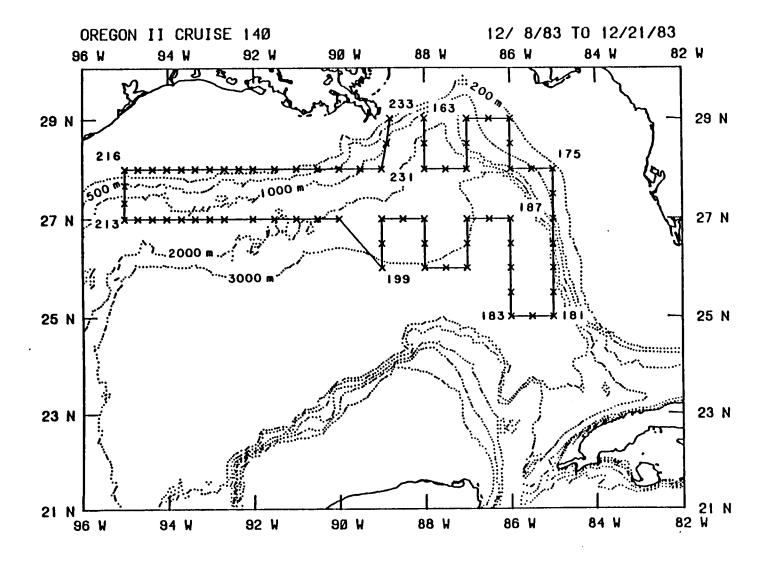






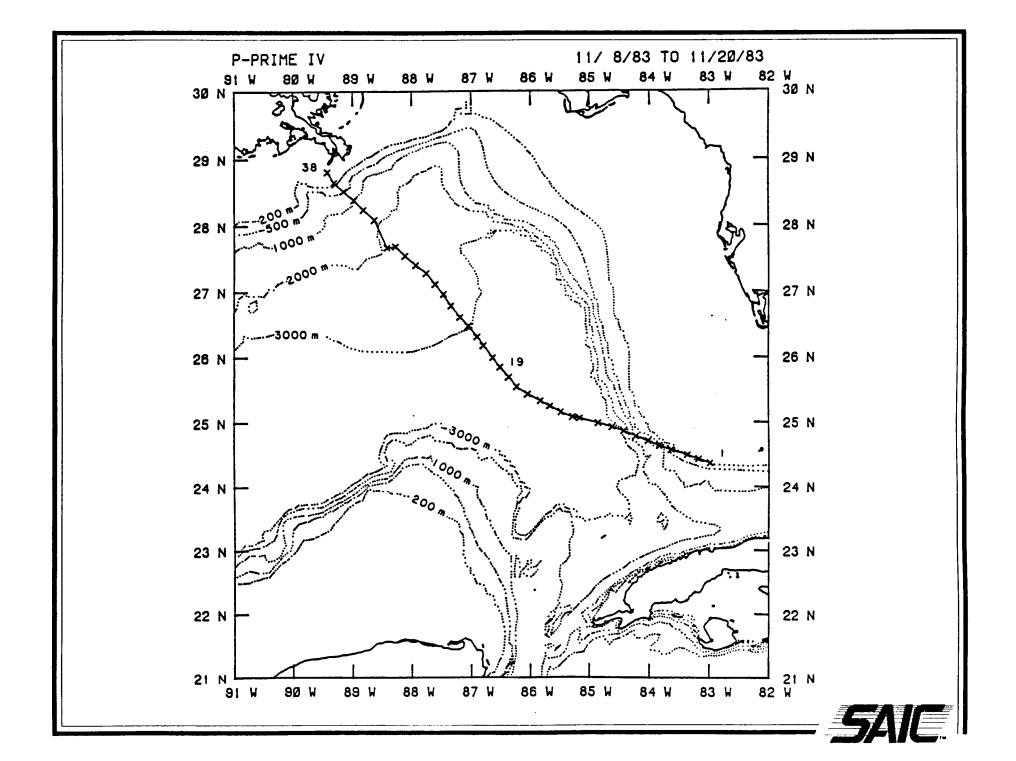


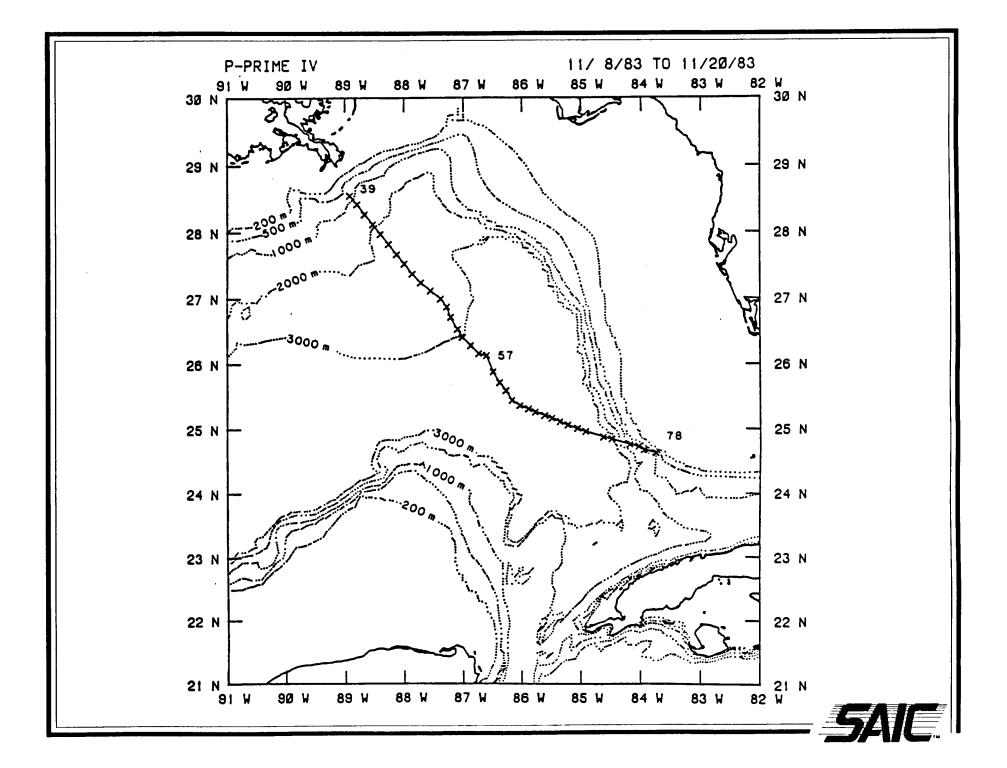
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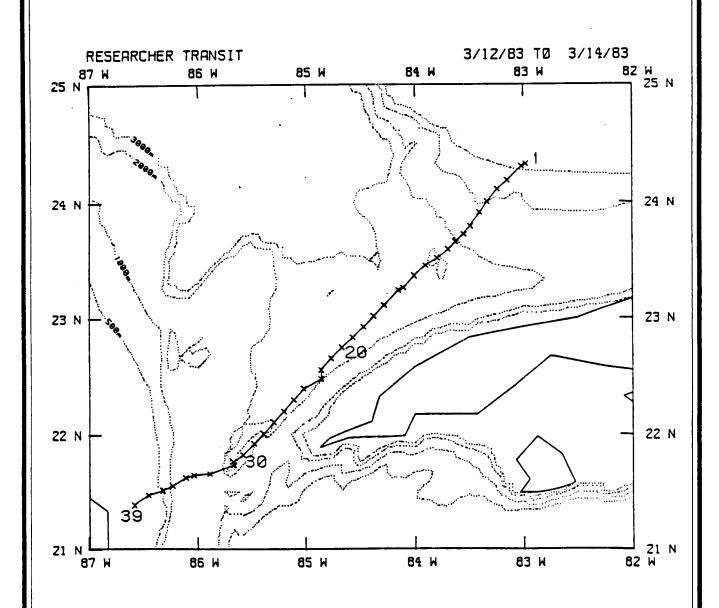


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TAPE NUMBER: SP1205





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

Volume VIII: Associated SOOP Cruise Data (Part 4)

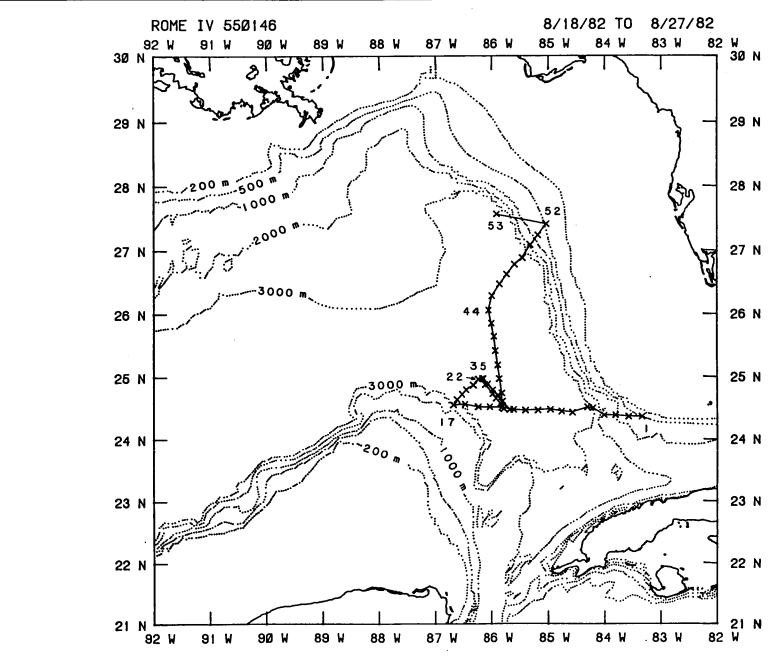
MMS Contract No. 14-12-0001-29158

Submitted by:

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

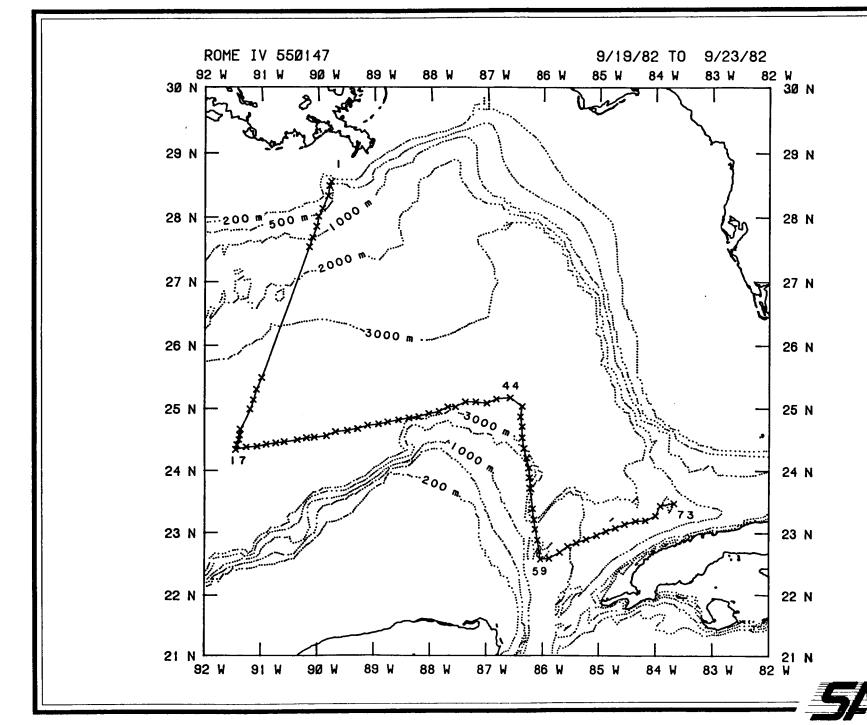
August 1989

TAPE NUMBER: SP1205

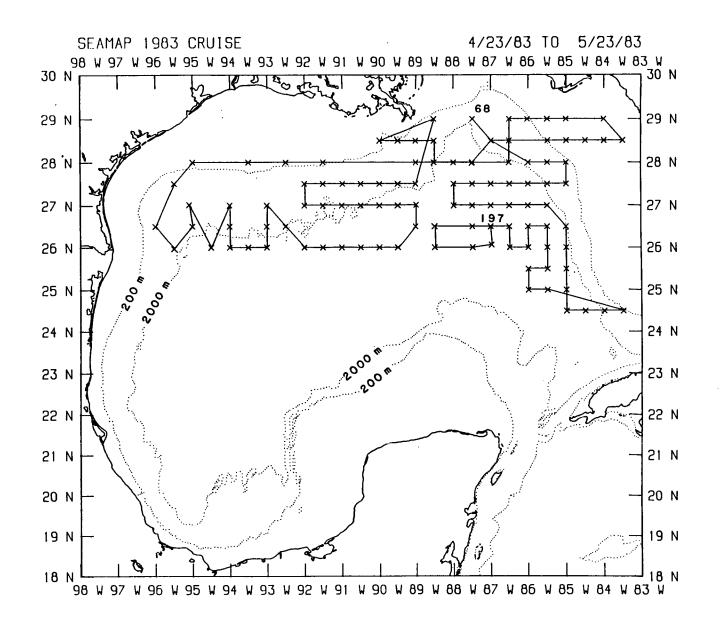




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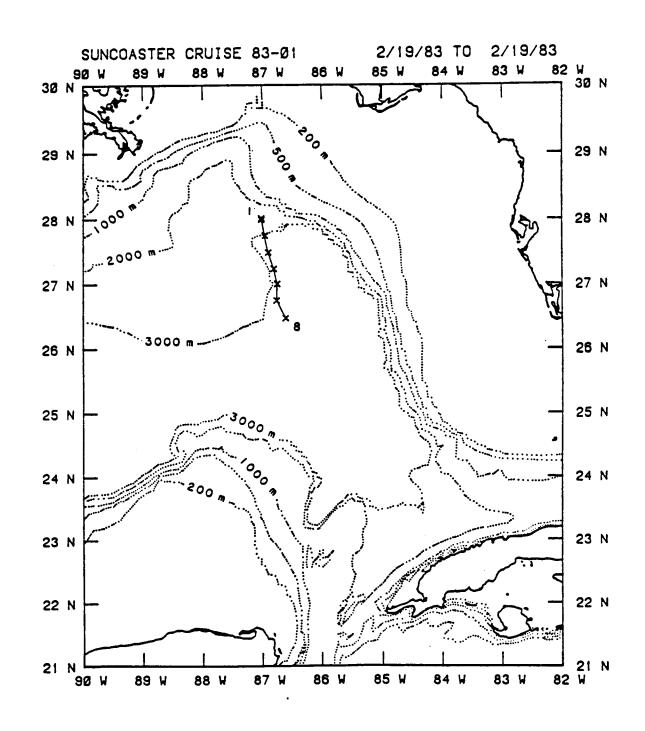


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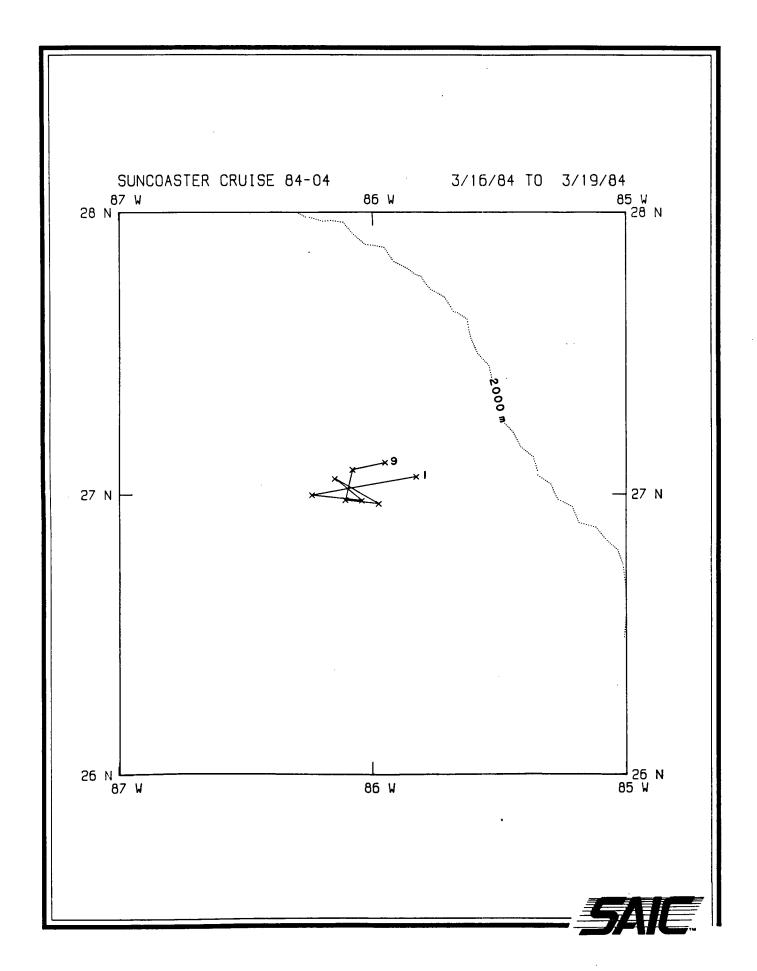


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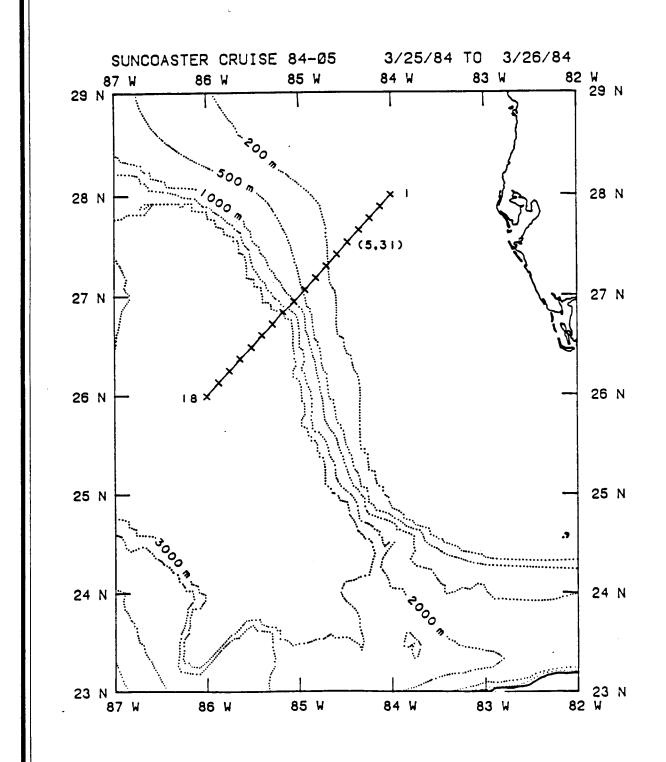




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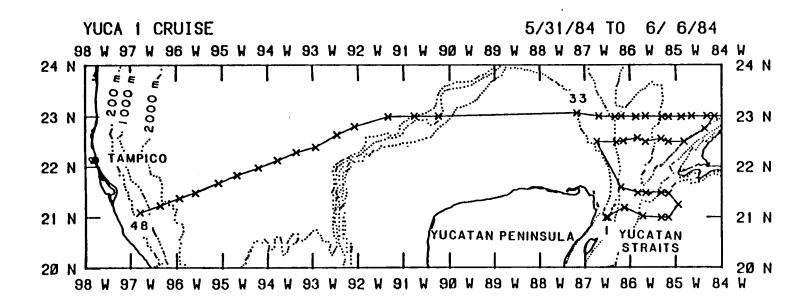


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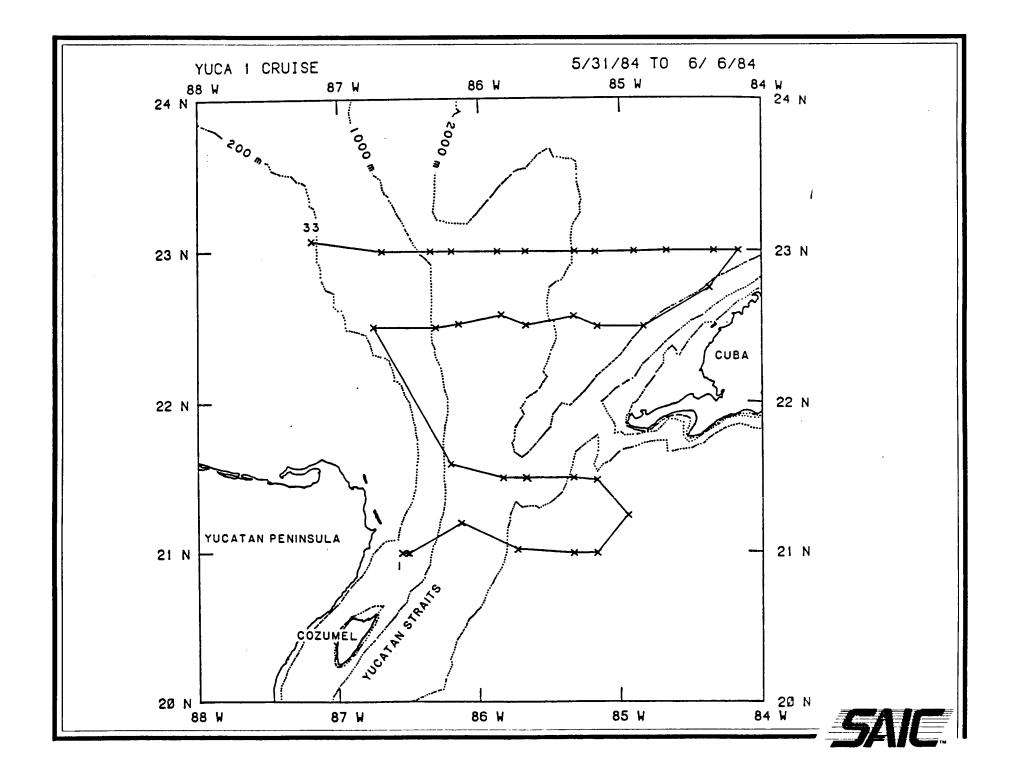




TAPE NUMBER: SP1205









RECEIVED

OCT 17 1989

October 12, 1989

Minerals Management Service Leasing & Environment

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,

Bolo

Robert J. Wayland Senior Meteorologist

Enclosures



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,

Bold Robert J. Wayland

Senior Meteorologist

Enclosures

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	N	u	м	8	Ε	R	

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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Science Applications Interna Martime Technology Group	itional Cooperation	1 0					
Martine Technology Group	1 Physica Octume gra	pmy uivisi	917				
4900 Water's Edje Daive	-						
Raleigh, NC 27606			·	· - · · - · · · · · · · · · · · · · · · · · · ·			
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED				BER(S) USED E	Y ORIGINATOR	TO IDENTIFY	
Gulf of Mexico Physical	Oceanography 1	Program	CF8405 A	metek/Straza	ADCH Data		
Years 1-2 (GOMPOP)	0 1 7	J		2121/211142	ر		
			1				
(MMS Contract No. 14-							
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9. ARE DATA DECLARED NA PROGRAM (DNP)?		100° 120° 140° 150° 150° 150° 160° 150° 150° 50° 60° 40° 20° 6° 20° 40° 50° 100°					
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10. PERSON TO WHOM INQUIRE	063	057 052	047 042	901034	100 T		
DATA SHOULD BE ADDRES	200	315	310 905	300 335	831 326		
PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)		200 301	350 3 351	346 341	336371	867 362 209 308	
DR. Evans Wouldell, Div. Mgr.	4. 53	220 127	418 / 913	408.443	439 44.		
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4900 Water's Edge Drive		505	500 495	490 485	4805년	511 506	
Suite 255		34-	538 531	521	514553	49 Age	
Ruleigh, MC 27606		577	1 372 - 1 561	1 562 1 557	552507	50 571	



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 Shipof-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:

- Two (2) data tapes: (1)
 - 1 2400 foot tape containing Hydrographic data in NODC Format
 - 1 2400 foot tape containing Hydrographic data in NODC Format 022.
- (2) Nine (9) printed volumes detailing the information stored on each tape.
- Appropriate NODC documentation forms for each data type submitted. (3)

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

Sincerely,

Rebecca J. Weber

Data Analyst

Enclosures

NOAA FORM 24-13

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

1. NAME AND ADDRESS OF IN	STITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	IITTED DATA A	RE ASSOCIATED	
Science Applications Inte	rnational Capperatio	n					
Maritime Technology Group / P	hysical Oceanography C)ivision :					
1900 Water's Edoo Drive	V • ,						
Suite 755							
Raleigh, NC 27606							
2. EXPEDITION, PROJECT, O	R PROGRAM DURING	WHICH	3. CRUISE NUN	BER(S) USED I	BY ORIGINATOR	TO IDENTIFY	
DATA WERE COLLECTED			DATA IN TH	IS SHIPMENT			
Gulf of Mexico Physic	cal Oceanography						
Program Years 1-5 (G	омрор)		** SEE ATT	ACHED DATA LI	ISTING SHEETS	**	
(MMS Contract No. 14-1,	2-0001-21158)					•	
4. PLATFORM NAME(S)	5. PLATFORM TYP (E.G., SHIP, BUO	E(S)	6. PLATFORM		7. DA	TES	
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SOOP Data Years 1 - 5

Tape #1 (501221)

OB01	Oyster Bay Cruise 8301	File #1
OBO2	Oyster Bay Cruise 8302	File #2
	5,5501 Day 014130 0302	rile #2
LH01	Lion Heart Cruise 8301	File #3
		1110 #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
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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
0088MA	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
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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

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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A. ORIGINATOR IDENTIFICATION

Science Applications International Cooperation Maritime Technology Group Physical Occomplaghy Division Maritime Technology Science State Device Scie	1. NAME AND ADDRESS OF IN	STITUTION, LABOR	ATORY, O	R ACTIVITY WIT	H WHICH SUBM	IITTED DATA AF	REASSOCIATED	
THO WALEY'S EDGY LEVILE SILE 255 Raleigh, NC 27606 2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Gulf of Mexico Physical Occanography Program Years 1-5 (GOMPO) 4. PLATFORM NAME(S) 5. PLATFORM TYPE(S) NATIONALITY(IES) PLATFORM OPERATOR 7. DATES NATIONALITY(IES) PLATFORM OPERATOR 7. DATES NATIONALITY(IES) PLATFORM OPERATOR FROM: MO/DAY/YR CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 12. PROGRAM (DAPP) 13. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 14. PROGRAM (DAPP) 15. PRE DATA DECLARED NATIONAL PROGRAM (DAPP) 16. EVEN SHEN CAN THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGET) 17. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. 18. ARE DATA DECLARED NATIONAL PROGRAM (DAPP) 19. ARE DATA SECLARED NATIONAL PROGRAM (DAPP) 10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (IAND ADDRESS IF OTHER THAN IN ITEM-IN DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (IAND ADDRESS IF OTHER THAN IN ITEM-IN DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (IAND ADDRESS IF OTHER THAN IN ITEM-IN DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (IAND ADDRESS IF OTHER THAN IN ITEM-IN DATE OF THE PROGRAM OF THE	Maritime Televisions Internati	enal Corporation	n					
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SOOP Data Years 1 - 5

Tape #2 (501222)

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
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SC8701	R/V Suncoaster Cruise 8701	File #35
SC8705	R/V Suncoaster Cruise 8705	File #36
SC8720	R/V Suncoaster Cruise 8720	File #37



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

Data Analyst

Enclosures

AC	CE	ES	51	ON
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NOAA FORM 24-13

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

1. NAME AND ADDRESS OF IN	ISTITUTION, LABOR	ATORY, O	R ACTIV	ITY WITI	4 WHICH	SUBMI	ITTED D	ATA AF	LE ASSOCIATED
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Raleigh, NC 27606									
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NOAA FORM 24-13

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

1. NAME AND ADDRESS OF IN		ATORY, O	RACTIVI	ITY WITH	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
Science Applications Internation	enal Comporation	i visian					
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Raleigh, NC 27606							
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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED								
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NOAA FORM 24-13

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Science Applications Interna Maritime Technology Group	ational Corporation							
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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.