

DATA DOCUMENTATION FORM

TT1593-4

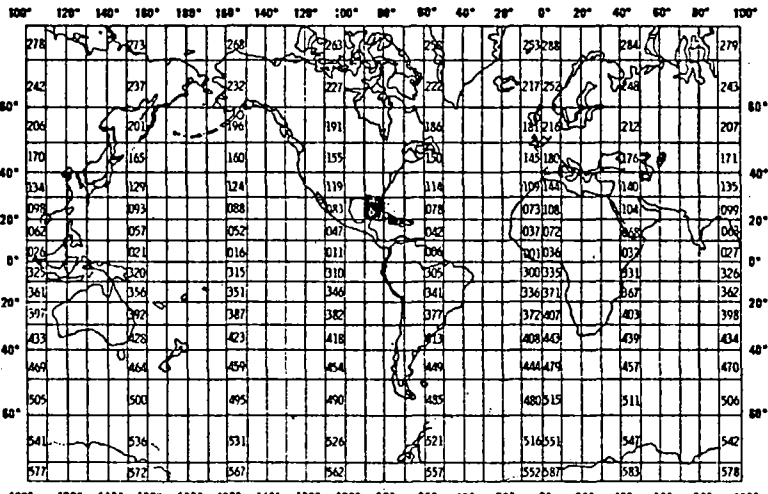
NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(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			
Woodward-Clyde Consultants 3489 Kurtz Street San Diego, CA 92110		sponsored by Minerals Management Service P.O. Box 7944 Metairie, Louisiana 70010 Attn: Dr. Robert Avent	
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Southwest Florida Shelf Ecosystems Study - Year 2, Modification No. 1		Cruise I : Hydrography and Primary Productivity	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V GYRE	Ship	USA	TAMU
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		4/1/82	4/7/82
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Dr. Keith B. Macdonald Woodward-Clyde Consultants 3489 Kurtz Street San Diego, CA 92110 619-224-2911			

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	Plessey Model 9400 CTD	N/A (Not Applicable)	N/A
Salinity	‰	"	Computed from C,T,D	Averaged over 1m
Depth	m	"	N/A	N/A
Temperature	°C	Sippican Model T-10 XBT	N/A	N/A
Nitrate	μM	Niskin Bottles	Technicon AutoAnalyzerII	N/A
Phosphate	μM	"	"	N/A
Silicate	μM	"	"	N/A
Dissolved Oxygen	ml/l	"	Strickland and Parsons (1965)	N/A
Chlorophyll-a + Phaeopigment-a	mg/m ³	"	Acid ratio, fluorescence Strickland and Parsons (1972)	N/A
Primary Productivity	mgC/m ³ /hr	"	Schindler et al.(1972), Wessels and Birnbaum (1979)	N/A
Phytoplankton Cell Counts	Enumeration and Identification	Niskin Bottle, Olympus microscope	N/A	N/A

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
Chlorophyll-a Fluorescence	mg/m ³	Chl-a meter (Hojerslev and Larson; 1980)	100 mV = 1 mg/m ³ Chl-a	N/A
Light Scattering Coefficient	1/m	b-meter (Hojerslev and Larson; 1980)	Integration of scattering function over all solid angles	$3^\circ \leq \theta \leq 150^\circ$
Downward Irradiance	% of sfc irradiance	F-meter E-meter	N/A	N/A
Quantum Irradiance	% of sfc irradiance	q-meter	N/A	N/A
Secchi Disc Depth	m	Secchi Disc	N/A	$D_o = D_H (1 + 0.4 H)$ <p>where D_o is the depth in a calm sea, and D_H is the depth in a sea of wave height, H</p>

References

- Glibert, P.M. and T.C. Loder 1977. Automated analysis of nutrients in seawater: a manual of techniques, Woods Hole Oceanographic Institution Tech. Rept., WHOI-77-47: 46pp.
- Hojerslev, N.K. and K. Larson 1980. On the optical instruments developed at the Institute of Physical Oceanography - University of Copenhagen. Rept. Inst. Phys. Oceanogr., Univ. Copenhagen, 42: 155-191.
- Schindler, D.W., R.V. Schmidt, and R.A. Reid 1972. Acidification and bubbling as an alternative to filtration in determining phytoplankton production by the C14 method. J. Fish. Res. Bd. Can., 29:1627-1631.
- Strickland, J.D.H. and T.R. Parsons 1965. A manual for seawater analysis, Bulletin Fisheries Res. Bd. Can., 125: 185pp.
- Strickland, J.D.H. and T.R. Parsons 1972. A practical handbook of seawater analysis. Bulletin 167, Fisheries Res. Bd. Can., Ottawa.
- Wessels, C. and E. Birnbaum 1979. An improved apparatus for use with the C14 acid-bubbling method of measuring primary production. Limnology and Oceanography, 24:187-188.

DATA DOCUMENTATION FORM

TT1595-6

NOAA FORM 24-13
(4-77)U.S. DEPARTMENT OF COMMERCE
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Southwest Florida Shelf Ecosystems Study - Year 2, Modification No. 1		Cruise II : Hydrography and Primary Productivity	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V SUNCOASTER	Ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		USA FIO	9/12/82 9/19/82
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
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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	Plessey Model 9400 CTD	N/A (Not Applicable)	N/A
Salinity	‰	"	Computed from C,T,D	Averaged over 1m
Depth	m	"	N/A	N/A
Temperature	°C	Sippican Model T-10 XBT	N/A	N/A
Nitrate	μM	Niskin Bottles	Technicon AutoAnalyzerII	N/A
Phosphate	μM	"	"	N/A
Silicate	μM	"	"	N/A
Dissolved Oxygen	ml/l	"	Strickland and Parsons (1965)	N/A
Chlorophyll-a + Phaeopigment-a	mg/m ³	"	Acid ratio, fluorescence Strickland and Parsons (1972)	N/A
Primary Productivity	mgC/m ³ /hr	"	Schindler et al.(1972), Wessels and Birnbaum (1979)	N/A
Phytoplankton Cell Counts	Enumeration and Identification	Niskin Bottle, Olympus microscope	N/A	N/A

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

Four files -

1. Cruise I (Gyre) in 022 format
2. Cruise I (Gyre) in 049 format
3. Cruise II (Suncoaster) in 022 format
4. Cruise II (Suncoaster) in 049 format.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File 1- 6502 records

File 2- 12468 records

File 3- 7739 records

File 4- 15022 records

Physical Records contain 10 logical records (ie blocking factor = 10)

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

Bob Bowen / Tetra-tech

619-224-4101

ADDRESS

3559 Kenyon St, San Diego Ca 92110

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17(?) <input type="checkbox"/> _____
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Southwest Florida Shelf Ecosystem Study - Year III Hydrographic data (four files)
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI (phase encoded) <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
12. PHYSICAL BLOCK LENGTH IN BYTES File 022 is 1200 / File 049 is 1050	
13. LENGTH OF BYTES IN BITS 8	

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<div>File 1 is recorded in Filetype 022 File 2 is recorded in Filetype 049 File 3 is recorded in Filetype 022 File 4 is recorded in Filetype 049</div>					
a) Tape is unlabelled b) All files have a blocking factor of 10 c) All files are in ASCII d) Logical records in filetype 022 are 60 words in length e) Logical records in filetype 049 are 105 bytes in length f) File order on the tape is as follows; 1)Cruise I (RV Gyre) in filetype 022(6502 records) 2)Cruise I (RV Gyre) in filetype 049(12468 records) 3)Cruise II (RV Suncoaster) in filetype 022(7739 records) 4)Cruise II (RV Suncoaster) in filetype 049(15022 records).					

References

- Glibert, P.M. and T.C. Loder 1977. Automated analysis of nutrients in seawater: a manual of techniques, Woods Hole Oceanographic Institution Tech. Rept., WHOI-77-47: 46pp.
- Schindler, D.W., R.V. Schmidt, and R.A. Reid 1972. Acidification and bubbling as an alternative to filtration in determining phytoplankton production by the C14 method. J. Fish. Res. Bd. Can., 29:1627-1631.
- Strickland, J.D.H. and T.R. Parsons 1965. A manual for seawater analysis, Bulletin Fisheries Res. Bd. Can., 125: 185pp.
- Strickland, J.D.H. and T.R. Parsons 1972. A practical handbook of seawater analysis. Bulletin 167, Fisheries Res. Bd. Can., Ottawa.
- Wessels, C. and E. Birnbaum 1979. An improved apparatus for use with the C14 acid-bubbling method of measuring primary production. Limnology and Oceanography, 24:187-188.

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8400049

FILES 1 & 3

FILES 2 & 4

- 1) File Type: FT022 & FT049
- 2) Project Ident.: MMS/SW FLA SNELL
- 3) Track Nos.: TT1593-96

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

1. Fo22 records with XBT data were deleted record types 5 and 7.
2. TT1595 (Fo22) - contained 3p 20 back ^{on blank} records ~~to~~ were deleted using Program (STDZEROSOUT).
3. No errors for Fo49 data.

III. Processor Name: Mary Lewis

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 8400049 TT1593-96

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	WOODCY	SL NL	**	**	FB	SL	**
DUPLICATE	W00967	SL	**	**	FB	*	
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	DNODC	MARY1. TT 1593A/F022 " MARY1. TT 1595A/F022 " MARY1. TT 1594A/F049 " TT 1596A/F049					3711 1700 12,469 15023
EDITED DISK FILE							

* LABEL = DNOD * 84NODC 065-01.

** FILE 1 = 120 X 1200 - 6503 RECORDS

FILE 2 = 106 X 1060 - 12,469

FILE 3 = 120 X 1200 - 7740

FILE 4 = 106 X 1060 - 15,023 ✓

8400049

ACCESSION/TRACK # ~~8400049~~~~TT~~ TT 1593-96

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECOR
ORIGINATOR TAPE	3/5/84	FJM	W00DCY	4	*	*	**
QUAD/3000 TAPE	3/9/84	FJM	W00967	4	*	*	**
ASSIGNED FOR PROCESS.		.					
DDF EVALUATION	3/84	MA					
QUALITY REVIEW	3/84	MA					
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	3/84	MA	DN0DC * MARY	TT 1593A/F022			3711
FIRST USER TAPE			DN0DC * MARY	TT 1593A/F022			1700
WORK DISK FILE	3/84	MA	DN0DC * MARY	TT 1594A/F049			12,469
FINAL USER TAPE			DN0DC * MARY	TT 1594A/F049			15023
FINAL MULCHEK	3/84	MA					
EDITED DISK FILE							
DATA SET "FINALIZED"							

FILES 1 & 2 ARE 120 X 1200 (FT022)

FILES 3 & 4 ARE 106 X 1060 (FT049)

** FILE 1 = 6503 RECORDS
 FILE 2 = 12,469
 FILE 3 = 7740
 FILE 4 = 15023

PROGRAM ASSUMPTIONS FOR DATA RECORD FORMAT CHANGES & TAPE PRODUCTION

Ann M. Souther
Tetra-Tech Services
San Diego, California

The following assumptions were made in writing this program:

- (1) North (N) was assumed for all latitudes, and west (W) for all longitudes.
- (2) All temperatures were assumed to be positive.
- (3) Windspeed was assumed to be given in whole knots.

The following introduction, taken from program documentation, will further clarify how data was interpreted:

This program reads data from a tape, manipulates the data, and writes it to two new files, in formats which will be designated Format 1 and Format 2.

Note: Format 1 is the 022 format, and Format 2 is the 049 format.

As the data is read, it exists in physical records which consist of 40 80-character logical records each. The logical records are of two types: (A) Header Records, or (B) Detail Records which are associated with a particular header record.

Records for Format 1 are of 7 types:

COMMENT NAME	ACTUAL NAME	RECORD TYPE
Record-1A	Text Record-1	Header
Record-1B	Master Record-1	Header & Detail
Record-1C	Detail Record-1	Detail
Record-1D	Detail Record-2	Detail
Record-1E	Detail REcord-3	Detail
Record-1F	Detail Record-4	Detail
Record-1G	Deatil Record-5	Detail

*Note: Each record of Detail Record 1 through Detail Record 5 in Format 1 holds data from five (5) input file detail records. Therefore, Detail Record 1 is repeated until all input file detail records for the given header record have been processed; then Detail Record 2 is treated in the same fashion, and so on through Detail record 5.

Records for Format 2 are of 5 types:

COMMENT NAME	ACTUAL NAME	RECORD TYPE
Record-2A	File Header Record	File/Header
Record-2B	First Station Header Record	Header
Record-2C	Environmental Record	Header
Record-2D	Physical/Chemical Record	Detail
Record-2E	Pigments/Carbon Assimilation	Detail

Due to the large number of variables being read in this program, variables are given abbreviated names. The following is a table which provides all information pertinent to the variables in this program.

Variables read from header records:

FORMAT NUMBER	VARIABLE ABBR	FULL NAME	INPUT COLUMNS	INPUT FORMAT	OUTPUT FORMAT	*1 CONVERT	FILL
1,2	SH	SHIP	3-4	XX	--	--	--
1,2	LT	LATTITUDE	5-8	DDMM	DDMM	--	--
1	LT1	1/10 MINS	9	X	XO	--	Y
2	LT1	1/10 MINS	9	X	SS	Y	--
1,2	LN	LONGITUDE	11-14	DDMM	ODDMM	--	Y
1	LN1	1/10 MINS	15	X	XO	--	Y
2	LN1	1/10 MINS	15	X	SS	Y	--
1,2	DT	DATE	19-24	YYMMDD	YYMMDD	--	--
1,2	HR	HOUR	25-26	HH	HH	--	--
1	HR1	1/10 HOUR	27	X	MM	Y	--
2	HR1	1/10 HOUR	27	X	X	--	--
1	SQ	SEQUENCE	31-33	XXX	OOXXX	--	Y
2	SQ	SEQUENCE	31-33	XXX	XXX	--	--
1	BT	BOTTOM	34-37	XXXX	OXXXX	--	Y
2	BT	BOTTOM	34-37	XXXX	XXXX.O	--	Y
2	SD	SEA DIRECT	46-47	XX	XX	--	--
1,2	WD	WIND DIR.	50-51	XX	XX	--	--
1,2	WS	WIND SPD.	52-53	XX	XX	--	--
1	BR	BAROMETER	54-56	XXX	10XXX	--	Y
2	BR	BAROMETER	54-56	XXX	XXX	--	--
1,2	DB	DRY BULB	57-59	XXX	OXXX	--	Y
1,2	WE	WEATHER	64	X	X	--	--

Variables read from Detail Records:

				*2			
FORMAT	VARIABLE		INPUT	INPUT	OUTPUT	*1	
NUMBER	ABBR	FULL NAME	COLUMNS	FORMAT	FORMAT	CONVERT	FILL
1	DP	DEPTH	1-4	XXXX.	XXXX.0	--	Y
2	DP	DEPTH	1-4	XXXX.	XXX.0	---	Y
1	TM	TEMP	5-8	XX.XX	XX.XX0	---	Y
2	TM	TEMP	5-8	XX.XX	XX.XX	--	--
1,2	SL	SALINITY	9-12	XX.XX	XX.XX0	--	Y
1	02	02	13-15	X.XX	0X.XX0	--	Y
2	02	02	13-15	X.XX	0X.XX	--	Y
2	PO	PO4	16-18	X.XX	0X.X	Y	Y
2	NH	NH4	19-21	XX.X	0XX.X	--	Y
2	CA	CHLORO-A	22-24	X.XX	00X.X	Y	Y
2	NO	NO3	25-27	XX.X	0XX.X	--	Y
2	SI	SILICATE	28-30	XX.X	0XX.X	--	Y
2	CT	CHLOR TOT	31-33	X.XX	--	Y	--

*For all variables which indicate a conversion, a new variable name will be introduced during the program.

Variables read from terminal (Interactive Mode):

FORMAT NUMBER	ABBR	VARIABLE FULL NAME	*2 FORMAT
2	MCH	MPZ CHLOROPHYLL A	XXX.X
2	MPH	MPZ PHAEOPIGMENTS	XXX.X
2	MCA	MPZ CARBON ASSIMILATION	XXXX.X
2	TR	TRANSPARENCY	XXX.X
2	LD	1 PERCENT LIGHT DEPTH	XXX
2	EX	EXTINCTION COEFFICIENT	XX.XX
2	ST	SURFACE TEMPERATURE	XXX
2	MS	TOTAL MICROSESTON	XXXX.X

*2 Decimal Points shown for 1/0 Formats are for better understanding only. They are actually neither part of the input file nor the output file.

Finally, the four resulting files exist on tape as follows:

- A) Tape is unlabeled
- B) All have a blocking factor of 10.
- C) All are in ASCII.
- D) Logical Records in Format 022 are 60 words in length.
- E) Logical records in Format 049 are 105 bytes in length.
- F) The order of files on the tape is as follows:
 - (1) Cruise I (GYRE) in 022 format (6502 records)
 - (2) Cruise I (GYRE) in 049 format (12468 records)
 - (3) Cruise II (SUNCOASTER) in 022 format (7739 records)
 - (4) Cruise II (SUNCOASTER) in 049 format (15022 records)

I hope that this information has been helpful.

3467 Kurtz Street
San Diego, California 92110
(619) 224-2911

Woodward-Clyde Consultants

February 21, 1984

Mr. Francis J. Mitchell
National Oceanographic Data Center
3300 Whitehaven Street, NW
Washington, D.C. 20235

Subject: Minerals Management Service (MMS)
Contract No. 14-12-0001-29144,
Southwest Florida Shelf Ecosystem Study,
Modification No. 1.

Dear Dr. Mitchell:

At the time of Dr. Hong Chin's departure from Woodward-Clyde Consultants several months ago, you and he had just reached agreement on plans for submission to NODC of the computer data base generated during the above referenced program. Following his departure, I arranged for Dr. Chin to complete the necessary data base conversions using the computer facilities of Tetra-Tech Services in San Diego. The task is finally all completed.

In accordance with your letter (E/OC13/FM) of July 29, 1983 to Dr. Hong Chin, enclosed please find copies of the data collected during the third-year hydrographic study of the subject MMS-sponsored program. Data from two separate cruises (April, 1982 and September, 1982) are transmitted in NODC filetypes 022 and 049. The enclosed magnetic tape therefore contains a total of four data files.

Also transmitted with this submittal are the accompanying "Data Documentation Forms" (NOAA Forms 24-13). Included within the first of these two forms are the unencoded optical oceanographic measurements in the originator's format, as requested in your referenced letter. A print-out of the data tape's contents is appended to the forms. Digitized XBT data are included within the file contents at appropriate station locations.

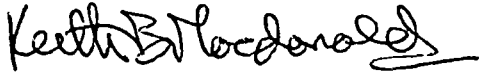
A letter from Ann M. Souther of Tetra-Tech Services, San Diego, describing how the data tapes were structured is also enclosed for your information.



It should be noted that these submitted data cover only Contract Modification No. 1, the third-year hydrographic, or upwelling, study of the subject program. Data for the first two years of the Program will be transmitted at a later date under separate cover.

Sincerely,

WOODWARD-CLYDE CONSULTANTS

A handwritten signature in dark ink, appearing to read "Keith B. Macdonald", with a stylized flourish at the end.

Keith B. Macdonald, Ph.D.
Program Manager

KBM/rhc

cc: Dr. Murray Brown, MMS Metairie
Dr. Robert Avent, MMS Metairie
Mr. Carroll Day, MMS Reston

DATA DOCUMENTATION FORM

329316

NOAA FORM 24-13
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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			
Woodward-Clyde Consultants 3489 Kurtz Street San Diego, CA 92110		sponsored by Minerals Management Service P.O. Box 7944 Metairie, Louisiana 70010 Attn: Dr. Robert Avent	
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Southwest Florida Shelf Ecosystems Study - Year 2, Modification No. 1		Cruise I : Hydrography and Primary Productivity	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V GYRE	Ship	PLATFORM	OPERATOR
		USA	TAMU
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		4/1/82	4/7/82
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Dr. Keith B. Macdonald Woodward-Clyde Consultants 3489 Kurtz Street San Diego, CA 92110 619-224-2911			

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	Plessey Model 9400 CTD	N/A (Not Applicable)	N/A
Salinity	°/oo	"	Computed from C,T,D	Averaged over 1m
Depth	m	"	N/A	N/A
Temperature	°C	Sippican Model T-10 XBT	N/A	N/A
Nitrate	μM	Niskin Bottles	Technicon AutoAnalyzerII	N/A
Phosphate	μM	"	"	N/A
Silicate	μM	"	"	N/A
Dissolved Oxygen	ml/l	"	Strickland and Parsons (1965)	N/A
Chlorophyll-a + Phaeopigment-a	mg/m ³	"	Acid ratio, fluorescence Strickland and Parsons (1972)	N/A
Primary Productivity	mgC/m ³ /hr	"	Schindler et al.(1972), Wessels and Birnbaum (1979)	N/A
Phytoplankton Cell Counts	Enumeration and Identification	Niskin Bottle, Olympus microscope	N/A	N/A

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
Chlorophyll-a Fluorescence	mg/m ³	Chl-a meter (Hojerslev and Larson; 1980)	100 mV = 1 mg/m ³ Chl-a	N/A
Light Scattering Coefficient	1/m	b-meter (Hojerslev and Larson; 1980)	Integration of scattering function over all solid angles	$3^\circ \leq \theta \leq 150^\circ$
Downward Irradiance	% of sfc irradiance	F-meter E-meter	N/A	N/A
Quantum Irradiance	% of sfc irradiance	q-meter	N/A	N/A
Secchi Disc Depth	m	Secchi Disc	N/A	$D_o = D_H (1 + 0.4 H)$ <p>where D_o is the depth in a calm sea, and D_H is the depth in a sea of wave height, H</p>

References

- Glibert, P.M. and T.C. Loder 1977. Automated analysis of nutrients in seawater: a manual of techniques, Woods Hole Oceanographic Institution Tech. Rept., WHOI-77-47: 46pp.
- Hojerslev, N.K. and K. Larson 1980. On the optical instruments developed at the Institute of Physical Oceanography - University of Copenhagen. Rept. Inst. Phys. Oceanogr., Univ. Copenhagen, 42: 155-191.
- Schindler, D.W., R.V. Schmidt, and R.A. Reid 1972. Acidification and bubbling as an alternative to filtration in determining phytoplankton production by the C14 method. J. Fish. Res. Bd. Can., 29:1627-1631.
- Strickland, J.D.H. and T.R. Parsons 1965. A manual for seawater analysis, Bulletin Fisheries Res. Bd. Can., 125: 185pp.
- Strickland, J.D.H. and T.R. Parsons 1972. A practical handbook of seawater analysis. Bulletin 167, Fisheries Res. Bd. Can., Ottawa.
- Wessels, C. and E. Birnbaum 1979. An improved apparatus for use with the C14 acid-bubbling method of measuring primary production. Limnology and Oceanography, 24:187-188.

3293/7

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

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.

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

NOAA FORM 24-13

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	Plessey Model 9400 CTD	N/A (Not Applicable)	N/A
Salinity	‰	"	Computed from C,T,D	Averaged over 1m
Depth	m	"	N/A	N/A
Temperature	°C	Sippican Model T-10 XBT	N/A	N/A
Nitrate	μM	Niskin Bottles	Technicon AutoAnalyzerII	N/A
Phosphate	μM	"	"	N/A
Silicate	μM	"	"	N/A
Dissolved Oxygen	ml/l	"	Strickland and Parsons (1965)	N/A
Chlorophyll-a + Phaeopigment-a	mg/m ³	"	Acid ratio, fluorescence Strickland and Parsons (1972)	N/A
Primary Productivity	mgC/m ³ /hr	"	Schindler et al.(1972), Wessels and Birnbaum (1979)	N/A
Phytoplankton Cell Counts	Enumeration and Identification	Niskin Bottle, Olympus microscope	N/A	N/A

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

Four files -

1. Cruise I (Gyre) in 022 format
2. Cruise I (Gyre) in 049 format
3. Cruise II (Suncoaster) in 022 format
4. Cruise II (Suncoaster) in 049 format.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File 1 - 6502 records

File 2 - 12468 records

File 3 - 7739 records

File 4 - 15022 records

Physical Records contain 10 logical records (ie blocking factor = 10)

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☒ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Bob Bowen / Tetra-tech 619-224-4101

ADDRESS 3559 Kenyon St, San Diego Ca 92110

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17(?) <input type="checkbox"/> _____
7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Southwest Florida Shelf Ecosystem Study - Year III Hydrographic data (four files)
8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI (phase encoded) <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES File 022 is 1200 / File 049 is 1050 13. LENGTH OF BYTES IN BITS 8

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<div>File 1 is recorded in Filetype 022 File 2 is recorded in Filetype 049 File 3 is recorded in Filetype 022 File 4 is recorded in Filetype 049</div>					
<div>a) Tape is unlabelled b) All files have a blocking factor of 10 c) All files are in ASCII d) Logical records in filetype 022 are 60 words in length e) Logical records in filetype 049 are 105 bytes in length f) File order on the tape is as follows; 1)Cruise I (RV Gyre) in filetype 022(6502 records) 2)Cruise I (RV Gyre) in filetype 049(12468 records) 3)Cruise II (RV Suncoaster) in filetype 022(7739 records) 4)Cruise II (RV Suncoaster) in filetype 049(15022 records).</div>					
			</		

References

- Glibert, P.M. and T.C. Loder 1977. Automated analysis of nutrients in seawater: a manual of techniques, Woods Hole Oceanographic Institution Tech. Rept., WHOI-77-47: 46pp.
- Schindler, D.W., R.V. Schmidt, and R.A. Reid 1972. Acidification and bubbling as an alternative to filtration in determining phytoplankton production by the C14 method. J. Fish. Res. Bd. Can., 29:1627-1631.
- Strickland, J.D.H. and T.R. Parsons 1965. A manual for seawater analysis, Bulletin Fisheries Res. Bd. Can., 125: 185pp.
- Strickland, J.D.H. and T.R. Parsons 1972. A practical handbook of seawater analysis. Bulletin 167, Fisheries Res. Bd. Can., Ottawa.
- Wessels, C. and E. Birnbaum 1979. An improved apparatus for use with the C14 acid-bubbling method of measuring primary production. Limnology and Oceanography, 24:187-188.

PROGRAM ASSUMPTIONS FOR DATA RECORD FORMAT CHANGES & TAPE PRODUCTION

Ann M. Souther
Tetra-Tech Services
San Diego, California

The following assumptions were made in writing this program:

- (1) North (N) was assumed for all latitudes, and west (W) for all longitudes.
- (2) All temperatures were assumed to be positive.
- (3) Windspeed was assumed to be given in whole knots.

The following introduction, taken from program documentation, will further clarify how data was interpreted:

This program reads data from a tape, manipulates the data, and writes it to two new files, in formats which will be designated Format 1 and Format 2.

Note: Format 1 is the 022 format, and Format 2 is the 049 format.

As the data is read, it exists in physical records which consist of 40 80-character logical records each. The logical records are of two types: (A) Header Records, or (B) Detail Records which are associated with a particular header record.

Records for Format 1 are of 7 types:

COMMENT NAME	ACTUAL NAME	RECORD TYPE
Record-1A	Text Record-1	Header
Record-1B	Master Record-1	Header & Detail
Record-1C	Detail Record-1	Detail
Record-1D	Detail Record-2	Detail
Record-1E	Detail REcord-3	Detail
Record-1F	Detail Record-4	Detail
Record-1G	Deatil Record-5	Detail

*Note: Each record of Detail Record 1 through Detail Record 5 in Format 1 holds data from five (5) input file detail records. Therefore, Detail Record 1 is repeated until all input file detail records for the given header record have been processed; then Detail Record 2 is treated in the same fashion, and so on through Detail record 5.

Records for Format 2 are of 5 types:

COMMENT NAME	ACTUAL NAME	RECORD TYPE
Record-2A	File Header Record	File/Header
Record-2B	First Station Header Record	Header
Record-2C	Environmental Record	Header
Record-2D	Physical/Chemical Record	Detail
Record-2E	Pigments/Carbon Assimilation	Detail

Due to the large number of variables being read in this program, variables are given abbreviated names. The following is a table which provides all information pertinent to the variables in this program.

Variables read from header records:

FORMAT NUMBER	ABBR	VARIABLE FULL NAME	INPUT COLUMNS	INPUT FORMAT	OUTPUT FORMAT	*1 CONVERT	FILL
1,2	SH	SHIP	3-4	XX	--	--	--
1,2	LT	LATTITUDE	5-8	DDMM	DDMM	--	--
1	LT1	1/10 MINS	9	X	XO	--	Y
2	LT1	1/10 MINS	9	X	SS	Y	--
1,2	LN	LONGITUDE	11-14	DDMM	ODDMM	--	Y
1	LN1	1/10 MINS	15	X	XO	--	Y
2	LN1	1/10 MINS	15	X	SS	Y	--
1,2	DT	DATE	19-24	YYMMDD	YYMMDD	--	--
1,2	HR	HOUR	25-26	HH	HH	--	--
1	HR1	1/10 HOUR	27	X	MM	Y	--
2	HR1	1/10 HOUR	27	X	X	--	--
1	SQ	SEQUENCE	31-33	XXX	OOXXX	--	Y
2	SQ	SEQUENCE	31-33	XXX	XXX	--	--
1	BT	BOTTOM	34-37	XXXX	OXXXX	--	Y
2	BT	BOTTOM	34-37	XXXX	XXXX.O	--	Y
2	SD	SEA DIRECT	46-47	XX	XX	--	--
1,2	WD	WIND DIR.	50-51	XX	XX	--	--
1,2	WS	WIND SPD.	52-53	XX	XX	--	--
1	BR	BAROMETER	54-56	XXX	10XXX	--	Y
2	BR	BAROMETER	54-56	XXX	XXX	--	--
1,2	DB	DRY BULB	57-59	XXX	OXXX	--	Y
1,2	WE	WEATHER	64	X	X	--	--

Variables read from Detail Records:

FORMAT NUMBER	VARIABLE ABBR	FULL NAME	INPUT COLUMNS	INPUT FORMAT	*2 OUTPUT FORMAT	*1 CONVERT	FILL
1	DP	DEPTH	1-4	XXXX.	XXXX.O	--	Y
2	DP	DEPTH	1-4	XXXX.	XXX.O	--	Y
1	TM	TEMP	5-8	XX.XX	XX.XX0	--	Y
2	TM	TEMP	5-8	XX.XX	XX.XX	--	--
1,2	SL	SALINITY	9-12	XX.XX	XX.XX0	--	Y
1	O2	O2	13-15	X.XX	OX.XX0	--	Y
2	O2	O2	13-15	X.XX	OX.XX	--	Y
2	PO	PO4	16-18	X.XX	OX.X	Y	Y
2	NH	NH4	19-21	XX.X	OXX.X	--	Y
2	CA	CHLORO-A	22-24	X.XX	OOX.X	Y	Y
2	NO	NO3	25-27	XX.X	OXX.X	--	Y
2	SI	SILICATE	28-30	XX.X	OXX.X	--	Y
2	CT	CHLOR TOT	31-33	X.XX	--	Y	--

*For all variables which indicate a conversion, a new variable name will be introduced during the program.

Variables read from terminal (Interactive Mode):

FORMAT NUMBER	ABBR	VARIABLE FULL NAME	*2 FORMAT
2	MCH	MPZ CHLOROPHYLL A	XXX.X
2	MPH	MPZ PHAEOPIGMENTS	XXX.X
2	MCA	MPZ CARBON ASSIMILATION	XXXX.X
2	TR	TRANSPARENCY	XXX.X
2	LD	1 PERCENT LIGHT DEPTH	XXX
2	EX	EXTINCTION COEFFICIENT	XX.XX
2	ST	SURFACE TEMPERATURE	XXX
2	MS	TOTAL MICROSESTON	XXXX.X

*2 Decimal Points shown for 1/0 Formats are for better understanding only. They are actually neither part of the input file nor the output file.

Finally, the four resulting files exist on tape as follows:

- A) Tape is unlabeled
- B) All have a blocking factor of 10.
- C) All are in ASCII.
- D) Logical Records in Format 022 are 60 words in length.
- E) Logical records in Format 049 are 105 bytes in length.
- F) The order of files on the tape is as follows:
 - (1) Cruise I (GYRE) in 022 format (6502 records)
 - (2) Cruise I (GYRE) in 049 format (12468 records)
 - (3) Cruise II (SUNCOASTER) in 022 format (7739 records)
 - (4) Cruise II (SUNCOASTER) in 049 format (15022 records)

I hope that this information has been helpful.

3467 Kurtz Street
San Diego, California 92110
(619) 224-2911

Woodward-Clyde Consultants

February 21, 1984

Mr. Francis J. Mitchell
National Oceanographic Data Center
3300 Whitehaven Street, NW
Washington, D.C. 20235

Subject: Minerals Management Service (MMS)
Contract No. 14-12-0001-29144,
Southwest Florida Shelf Ecosystem Study,
Modification No. 1.

Dear Dr. Mitchell:

At the time of Dr. Hong Chin's departure from Woodward-Clyde Consultants several months ago, you and he had just reached agreement on plans for submission to NODC of the computer data base generated during the above referenced program. Following his departure, I arranged for Dr. Chin to complete the necessary data base conversions using the computer facilities of Tetra-Tech Services in San Diego. The task is finally all completed.

In accordance with your letter (E/OC13/FM) of July 29, 1983 to Dr. Hong Chin, enclosed please find copies of the data collected during the third-year hydrographic study of the subject MMS-sponsored program. Data from two separate cruises (April, 1982 and September, 1982) are transmitted in NODC filetypes 022 and 049. The enclosed magnetic tape therefore contains a total of four data files.

Also transmitted with this submittal are the accompanying "Data Documentation Forms" (NOAA Forms 24-13). Included within the first of these two forms are the unencoded optical oceanographic measurements in the originator's format, as requested in your referenced letter. A print-out of the data tape's contents is appended to the forms. Digitized XBT data are included within the file contents at appropriate station locations.

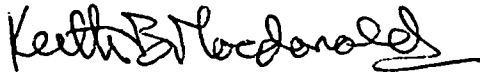
A letter from Ann M. Souther of Tetra-Tech Services, San Diego, describing how the data tapes were structured is also enclosed for your information.



It should be noted that these submitted data cover only Contract Modification No. 1, the third-year hydrographic, or upwelling, study of the subject program. Data for the first two years of the Program will be transmitted at a later date under separate cover.

Sincerely,

WOODWARD-CLYDE CONSULTANTS

A handwritten signature in dark ink, appearing to read "Keith B. Macdonald", with a stylized flourish at the end.

Keith B. Macdonald, Ph.D.
Program Manager

KBM/rhc

cc: Dr. Murray Brown, MMS Metairie
Dr. Robert Avent, MMS Metairie
Mr. Carroll Day, MMS Reston

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 84 00049

329316-17

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	WUDDY	NL	120	1200	FB		FILE 1 6503 FILE 3 7740
DUPLICATE	WUDDY W00967	SL	120	1200	FB	*	↓
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE							

* LABEL = DND*84N0DC065-0.

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8400049

- 1) File Type: C022
- 2) Project Ident.: MMS/SW FLA Shelf
- 3) Track Nos.: 329316-17

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check) . . .

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

8400049

ACCESSION/TRACK # ~~8211006~~

329316-17

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECOR
ORIGINATOR TAPE	2/21/84	FJM	W000CY	2	1200	120	6503 2740
QUAD/SCAN TAPE ^{COPY}	3/9/84	FJM	W00967	2	1200	120	6503 7740
ASSIGNED FOR PROCESS.							
DOF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

NANSEN REF. #

329316

MULDARS TRACK #

TT1593

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives(TT1593)

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

None

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8400049	F022	TT1593	0109	31WA	32GY	1982/04/02	I	148494
8400049	F049	TT1594	0109	31WA	32GY	1982/04/02	I	148495
8400049	C022	329316	0109	31WA	32GY	1982/04/02	TT1593	148498
8400049	F022	TT1595	0109	31WA	32WP	1982/09/13	II	148496
8400049	F049	TT1596	0109	31WA	32WP	1982/09/13	II	148497
8400049	C022	329317	0109	31WA	32WP	1982/09/13	TT1595	148499

(6 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
8400049	F022	TT1593	32GY	97	3711	82/04/02	82/04/07
8400049	F049	TT1594	32GY	99	12469	82/04/02	82/04/07
8400049	C022	329316	32GY	30	30	82/04/02	82/04/07
8400049	F022	TT1595	32WP	95	1700	82/09/13	82/09/18
8400049	F049	TT1596	32WP	95	15023	82/09/13	82/09/18
8400049	C022	329317	32WP	43	43	82/09/13	82/09/18

(6 rows affected)