#0312-11-88

ACCESSION NUMBER 8800043

DATA DOCUMENTATION FORM

A00674

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2651

F022 TY1052
C022 319765

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

UNIVERSITY OF ALASKA
INSTITUTE OF MARINE SCIENCE
DATA MANAGEMENT
ROOM 111 O'NEAL BUILDING
FAIRBANKS, ALASKA 99701

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

GARS
OCE 8608125

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

HX104

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
R/V ALPHA HELIX	SHIP	USA	USA	09/10/87	09/22/87

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

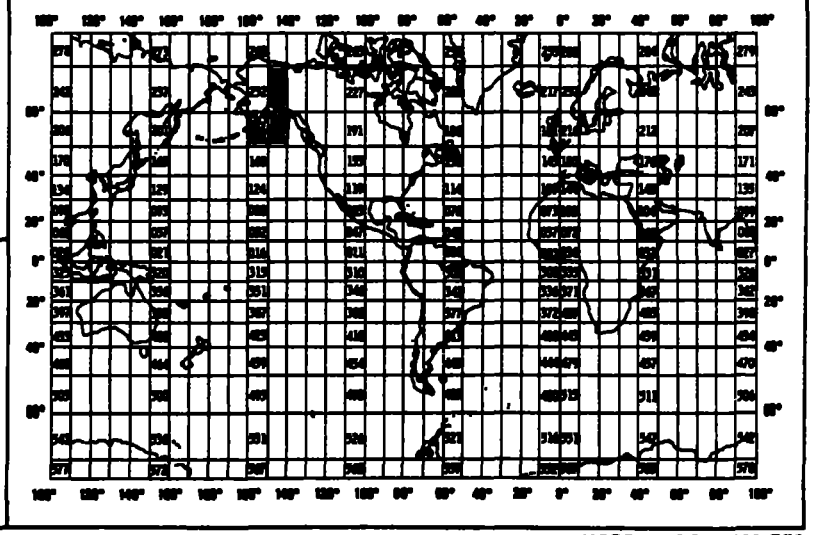
[ ] NO [X] YES [ ] PART *(SPECIFY BELOW)*

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

DATA MANAGER
(907) 474-7836
(907) 474-7092

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

GENERAL AREA



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

THREE RECORD TYPES WITHIN FILE TYPE 22

Designated by byte 10:

"1" for Text Record
"2" for Master Record
"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File 22, STD/CTD: 0 to 99,999 Text records, followed by

1 Master record, followed by

0 to 99,999 Detail records

Repeats

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Data Manager (907) 474-7836

ADDRESS University of Alaska, Institute of Marine Science, Fairbanks, Alaska 99701.

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

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

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

7. PARITY ☒ ODD ☐ EVEN

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

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☒ 3/4 INCH ☒ ~~.5 - .6 inch~~

10. END OF FILE MARK ☐ OCTAL 17 ☒ Octal ~~33~~ 32

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

022IMS
ALPHA HELIX CRUISES HX104 & HX108
9/87 & 12/87 GULF OF ALASKA
DR. ROYER
STATIONS: 1-55. HX104
STATIONS: 1-76. HX108
9TRK, 1600BPI, ASCII, NOLAB, ODD

12. PHYSICAL BLOCK LENGTH IN BYTES

10-120 bytes/block

13. LENGTH OF BYTES IN BITS

8 bits/byte

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, ~~EXCEPT~~:					
	~~1. Col. 50-53 Salinity in °/₀₀ (I4 to 1/100ths)~~				

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
SALINITY	0.001 °/₀₀	NANSEN BOTTLES & NEIL BROWN MARK IIIB CTD/O	DESCRIPTION OF BASIC PROCESSING ATTACHED.	N/A
TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O	"	N/A
DEPTH	0.1M (1M = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	"	N/A

IMS STD/CTD DATA REDUCTION

JUNE 1980

STDCP

Raw 9-track magnetic tapes from the Neil Brown Mark IIIB microprofiler are input. The conductivity is converted to salinity by a relation based on the work of A. S. Bennett (DSR, Vol. 23, No. 2, February 1976).

Output of this program is on 9-track tape and includes entered header data and all STD values from the raw 9-track tape. Output from this program is input for STDAV.

STDCP PRINT OUT

1) Print out the type of "FISH" used.

2) Input from 9-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators).

CALVAL

Data values from the instrument display, taken at the time discrete samples were taken are input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values for standard deviations for temperature and salinity. Generally, values for temperature and salinity are rejected if they fall beyond two standard deviations from the mean.

Subjective judgments as to the quality of the field correction data is made at this time.

Output from this program provides input for STDAV.

D. INSTRUMENT CALIBRATION

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

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
NEIL BROWN MARK IIIB CTD/O Microprofiler	JUNE, 1987 ~~AUG., 1984~~		NRCC NEIL BROWN	✓					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

#039/2-17-88

ACCESSION NUMBER 8800043

DATA DOCUMENTATION FORM

A00674

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2651

F032 TV1053
C022 319766

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

GARS
OCE 8608125

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

HX108

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
R/V ALPHA HELIX	SHIP	USA	USA	11/30/87	12/13/87

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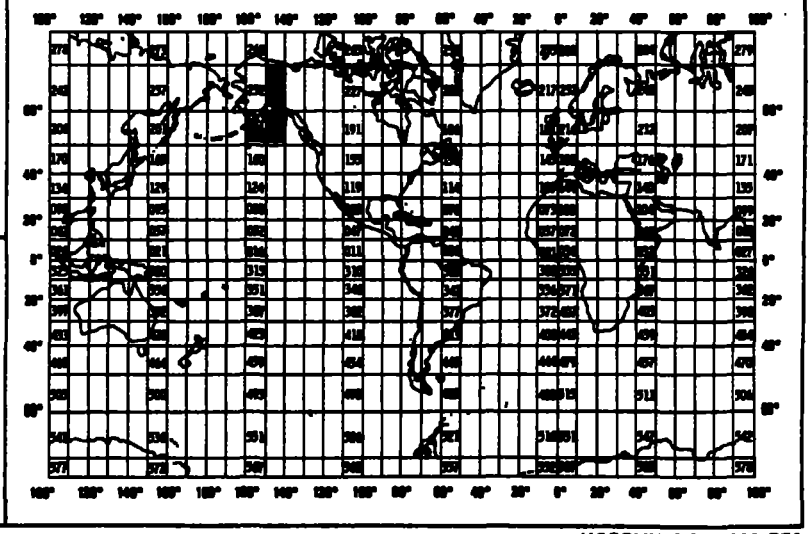
GENERAL AREA



USCOMM-DC 44286-P72

C. DATA FORMAT

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NAME AND PHONE NUMBER Data Manager (907) 474-7836

ADDRESS University of Alaska, Institute of Marine Science, Fairbanks, Alaska 99701.

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USCOMM-DC 44269-P72

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TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O	"	N/A
DEPTH	0.1M (1M = 1db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	"	N/A

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JUNE 1980

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INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
NEIL BROWN MARK IIIB CTD/O Microprofiler	JUNE, 1987 ~~AUG., 1984~~		NRCC NEIL BROWN	✓					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

8800043

SSION NC ________ FILETYPE F022 . CK NO.__________ PROJECT IDENTIFICATION__________

8800043

F022 TY1052-TY1053 (C022 319765-319766) UNIV AK OCSEAP 0081

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
. TAPE	04/20/88	CMH	A00674	2	120	1200	2276?
.CATE TAPE	04/21/88	CMA	W14503 *	2	120	1200	
MATTED TAPE							
MATTED DISK							
MULCHEK							
MULCHEK							
OR F022							
SET FINALIZED							

S REPORTED TO PRINCIPAL INVESTIGATOR: * DNODC #8800043-01, Tape is 9TRK, SL, 1600 bpi

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

ENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

```
INVENTORY                              Record found                          1:51:04p
Record 6812 on screen
174450                  DATA ENTRY INFORMATION SYSTEM                          SJH
                             (DATASET INVENTORY)

DATE OF ENTRY: 04/28/88

       REFERENCE NUMBER: TV1052        ACCESSION NUMBER: 8800043
FORMER REFERENCE NUMBER:         FORMER ACCESSION NUMBER:          (RESUB ONLY)
--------------------------------------------------------------------------------
INVENTORY
         MEDIA-IN: 01 - Digital Magnetic Tape          DINDB CODE 09
         EXCHANGE (FORMAT):   E018 - STD/CTD (F022)
         PROCESSING (FORMAT): F022 - CTD/STD

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

         INSTITUTE (COUNTRY AND INSTITUTE CODES): 31I7
         PLATFORM (COUNTRY AND PLATFORM CODES):   31HX
         PLATFORM TYPE:  9 - Ship           DINDB CODE  09

         ORIGINATORS FILE ID: HX104   ORIGINATORS CRUISE ID: HX104
         CRUISE START DATE: 09/10/87  CRUISE END DATE: 09/22/87    Press PgDn
         PROJECT CODE: 0081           DATA USE CODE (DUC): 3       to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY                                                              1:51:11p

         VOLUME - NUMBER OF STATIONS:      55   NUMBER OF RECORDS:  13,166

                  If STA/REC counts are not appropriate then enter -

                  NUMBER:                  UNITS:

                  AVERAGE REC SIZE:     120   MBYTES:       1.579920

--------------------------------------------------------------------------------
OCEAN AREA
             CODE 1: 58A     MEANING: Coastal Waters of S. Alaska
             CODE 2: 55A     MEANING: Coastal Waters of W. Alaska (Bering Sea)
             CODE 3: 12A     MEANING: NW Coast of Alaska (Chukchi Sea)
--------------------------------------------------------------------------------

DINDB TRACK TRANSACTION GENERATED:   /  /



F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI
```

```
INVENTORY                              Record found                          1:51:35p
Record 6814 on screen
174452                  DATA ENTRY INFORMATION SYSTEM                          SJH
                             (DATASET INVENTORY)

DATE OF ENTRY: 04/28/88

       REFERENCE NUMBER: TV1053          ACCESSION NUMBER: 8800043
FORMER REFERENCE NUMBER:          FORMER ACCESSION NUMBER:          (RESUB ONLY)
--------------------------------------------------------------------------------
INVENTORY
         MEDIA-IN: 01 - Digital Magnetic Tape            DINDB CODE 09
         EXCHANGE (FORMAT):   E018 - STD/CTD (F022)
         PROCESSING (FORMAT): F022 - CTD/STD

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

         INSTITUTE (COUNTRY AND INSTITUTE CODES): 31I7
         PLATFORM (COUNTRY AND PLATFORM CODES):   31HX
         PLATFORM TYPE:  9 - Ship             DINDB CODE  09

         ORIGINATORS FILE ID: HX108   ORIGINATORS CRUISE ID: HX108
         CRUISE START DATE: 11/30/87  CRUISE END DATE: 12/13/87    Press PgDn
         PROJECT CODE: 0081           DATA USE CODE (DUC): 3       to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY                                                              1:51:41p

         VOLUME - NUMBER OF STATIONS:      76   NUMBER OF RECORDS:  14,601

                  If STA/REC counts are not appropriate then enter -

                  NUMBER:                  UNITS:

                  AVERAGE REC SIZE:     120   MBYTES:       1.752120

--------------------------------------------------------------------------------
OCEAN AREA
             CODE 1: 58A     MEANING: Coastal Waters of S. Alaska
             CODE 2: 55A     MEANING: Coastal Waters of W. Alaska (Bering Sea)
             CODE 3: 12A     MEANING: NW Coast of Alaska (Chukchi Sea)
--------------------------------------------------------------------------------

DINDB TRACK TRANSACTION GENERATED:   /  /



F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI
```

NOAA FORM 24-3
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: NODC
1825 Connecticut Ave N.W.
Washington DC 20235

REFER TO
HX104

ATTENTION
Francis Mitchell

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☐ ORDINARY MAIL ☐ REGISTERED MAIL ☑ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER

Enclosed is a tape of ETOPO2 data from the Institute of Marine Science. NSF funded.

88000 43

A00674

FORWARDED BY (Signature)	TITLE	DATE FORWARDED
Mike Cross	Liaison Officer	2/10/88
RECEIVED BY (Signature)	**TITLE**	**DATE RECEIVED**
F. Mitchell		2-17-88

NOAA FORM 24-5 (8-73)

Cliff Hartley	673-5639	EG12025N3A1H9	SUBMITTED 04/21/88	ASAP	09

OPTION TO BE USED AND FUNCTION TO BE PERFORMED

Copy to a 'W' tape (Files 1-2 only)
Release Scan 'W' tapes

Ben 09.

INPUT MEDIUM
PAPER CARD DISK TAPE
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK PRINT TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ ~~DISKETTE~~	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00674		9	1600	ODD	NL	FB	120	1200	2
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ ~~DISKETTE~~	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	W14503		9	1600	ODD	SL	FB	120	1200	2
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME DNODC*880043-01			PURGE DATE

SPECIAL INSTRUCTIONS

Please send 'W' tape to Asheville, N.C.

ESTIMATED EXECUTION TIME

USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
04/21/05	04/21/88	14:40	15:00	C	COMPLETED BY J.S

ALERTS

Cliff Hartley	673-5636	EG13D08/3AH9	SUBMITTED 04/19/88	ASAP	09

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

Please scan tape

Bin 09

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00674		9	1600						
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A00674 to Bin 09

ESTIMATED EXECUTION TIME

0731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
8804200	04/20/88	12:05		C	COMPLETED BY J.S

COMMENTS

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 8800043 C022 319765 0081 31I7 31HX    1987/09/10 TV1052       177196
 8800043 C022 319766 0081 31I7 31HX    1987/11/30 TV1053       177197
 8800043 F022 TV1052 0081 31I7 31HX    1987/09/10 HX104        177198
 8800043 F022 TV1053 0081 31I7 31HX    1987/11/30 HX108        177199

(4 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8800043 C022 319765 31HX 55     97     87/09/10   87/09/21
 8800043 C022 319766 31HX 76     109    87/11/30   87/12/15
 8800043 F022 TV1052 31HX 55     13166  87/09/10   87/09/21
 8800043 F022 TV1053 31HX 76     14046  87/11/30   87/12/15

(4 rows affected)
```