		ACCESSION NUMBER	80-0131

DDF-B:2:01

DATA DOCUMENTATION FORM

TR 5734 F022

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

319226 C022

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

Data Processing
Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99701

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

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

AC273

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 ACONA	SHIP	U.S.A.	U.S.A.	03/16/79	03/21/79

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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

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

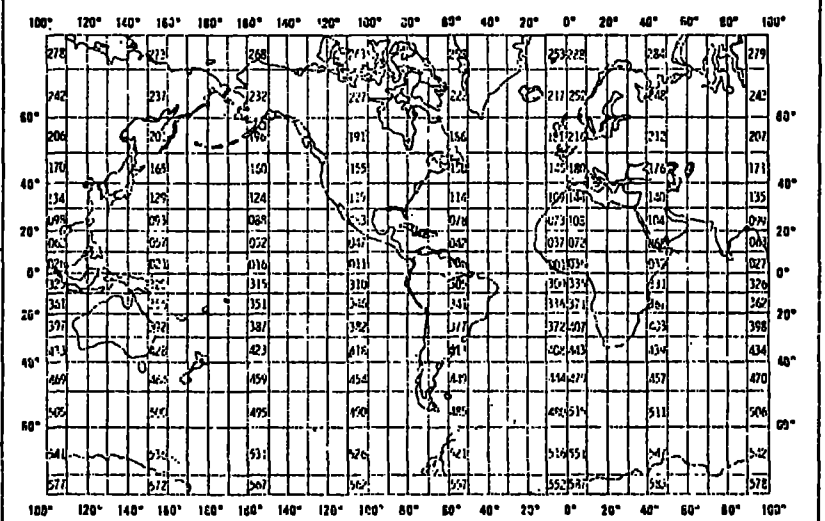
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Data Processing
c/o CYDNEY HANSEN
907/479-7836
907/479-7074

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

GENERAL AREA



B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
SALINITY	0.001°/oo	NANSEN BOTTLES & PLESSEY STD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & PLESSEY STD	"	N/A
DEPTH	0.1m (1m = 1 db)	THERMOMETRIC DEPTH & PLESSEY STD	"	N/A

BIO STD/CTD DATA REDUCTION
JUNE 1978

STDCP

Raw, 7-track magnectic tapes from 8400 or 8114 Plessey Digitizers are input along with conversion equations specific for each sensor. These equations reflect the latest calibration or factory compliance data. If the FISH contains a conductivity sensor, it 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 on the 7-track tape. Output from this program is input for STDAV.

STDCP PRINT OUT

1) Print out the "FISH" serial number and the equations used to convert frequency to parameters for each FISH used.
2) If conductivity ratios are converted to salinities at this point, the conversion routines are printed out.
3) Input from 7-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators.)

CALVAL

Periods from a frequency counter, taken at the time discrete samples were taken, is 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 and 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.

IMS STD/CTD DATA REDUCTION

JUNE 1978

STDAV

Data from STDCP and CALVAL are input with header information which includes individual station position, time and weather.

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1 m = 1 db) and averaged. Field corrections are added to the one meter averages. (NOTE: depths, and their related data values, are accepted for inclusion in averaging, if and only if, depth N is greater than or equal to depth N + 1).

STDAV PRINT OUT

STDAV print out will include the following in addition to header and data:

1) All header information and corrected data in one meter intervals.
2) Field corrections used, to include mean and standard deviation for each parameter.
3) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
4) Pertinent comments are solicited from the responsible principle investigator and attached to the final print out.

STDAV OUTPUT TAPE

A tape with one meter averages for Depth, Salinity, Temperature, Sigma-T, and Delta-D/per station is generated for data storage and further analysis.

NODC-F

This program is used to convert the output tape from STDAV (IMS STD final format) to an NODC formatted tape for submission to NODC to fulfill contractual obligations.

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 Cydney Hansen (907) 479-7836

ADDRESS Institute of Marine Science, Univ. of Alaska, Faribanks, Ak. 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 inch

10. END OF FILE MARK ☐ OCTAL 17 ☒ octal 23

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

022 IMS273
ACONA 273
03/16/79 - 03/21/79
Stations: 01-09
Dr. T. Cooney
9trk 800BPI EBCDIC NO LABEL,ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
120 ● bytes/block

13. LENGTH OF BYTES IN BITS
8 bits/byte

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 OSCEAP AND NODC. THERE ARE NO DEVIATIONS FROM THIS TYPE, EXCEPT: 1. col 45-49 depth in meters (I5 to 1/10ths) 2. col 50-53 salinity in 0/00 (I4 to 1/100ths)					

USCOMM-DC 44289-P72

```
022273IMS1  4THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                                  1
022273IMS1  4ABOARD THE ACONA BETWEEN 03/16/79 - 03/21/79 BY DR. COONEY                                                        2
022273IMS1  4OF THE INSTITUTE OF MARINE SCIENCE.                                                                               3
022273IMS1  4THERE WERE A TOTAL OF 9 STATIONS TAKEN IN THE PRINCE WILLIAM SOUND AREA.                                          4
022273IMS1  4ONLY STATIONS 4-9 HAD STD DATA RECORDED ON TAPE.                                                                  5
022273IMS1  4STD MODEL 9040, SERIAL NUMBER 5341 WAS USED. EQUATIONS USED TO GENERATE                                           6
022273IMS1  4PARAMETERS FROM FREQUENCY FOLLOW                                                                                  7
022273IMS1  4                                                                                                                  8
022273IMS1  4              S (S-5024.669D0)*3.4862D-3 +26.0D0                                                                  9
022273IMS1  4              T (T-2124.976D0)*1.78882D-2 - 2.0D0                                                                10
022273IMS1  4              D (D-9712.628D0)* 0.9503841D0                                                                      11
022273IMS1  4                                                                                                                 12
022273IMS1  4FIELD CORRECTION FOR THIS CRUISE WAS TAKEN FROM ACONA CRUISE AC273.                                              13
022273IMS1  4FIELD CORRECTION FOR THE STD DATA WAS DERIVED BY COMPARING SINGLE BOTTLE SAMPLES                                 14
022273IMS1  4TO RECORDED PERIODS FROM THE STD SENSORS.THE FIELD CORRECTION IS BASED ON 7                                      15
022273IMS1  4SAMPLES FROM A TOTAL OF 9 STATIONS. THE FIELD CORRECTION IS-                                                     16
022273IMS1  4                                                                                                                 17
022273IMS1  4                        TEMPERATURE MEAN(NANSEN-STD)  IS  0.02678                                                18
022273IMS1  4             STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.00711                                                19
022273IMS1  4                           SALINITY MEAN(NANSEN-STD)  IS -0.01487                                               20
022273IMS1  4             STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.00842                                               21
022273IMS1  4                                                                                                                 22
022273IMS2  4603350N1475670W273          60079 31717401 10 9958    0  33 71573658MOD9040 SN5341                603 599
022273IMS3  4    0 4106313082488 3   10 4106313082488 3   20 4106313082488 3   30 4106313082488 1   40 4115313202489 1    1
022273IMS3  4   50 4117313252489 1   60 4119313242489 1   70 4119313272490 1   80 4117313252490 1   90 4118313252489 1    2
022273IMS3  4  100 4120313262490 1  110 4118313232489 1  120 4120313302490 1  130 4120313352490 1  140 4127313342490 1    3
022273IMS3  4  150 4128313302490 1  160 4135313532491 1  170 4159313752493 1  180 4192314132496 1  190 4235314462498 1    4
022273IMS3  4  200 4254314442498 1  210 4258314492498 1  220 4264314522498 1  230 4271314642499 1  240 4318315272504 1    5
022273IMS3  4  250 4339315232503 1  260 4393315792507 1  270 4452316142509 1  280 4630317222516 1  290 4720317042514 1    6
022273IMS3  4  300 4771317372516 1  310 4854317792518 1  320 4898317722517 1  330 4919317482515 1  340 4971318242520 1    7
022273IMS3  4  350 5010318032518 1  360 5051318062518 1  370 5099318642522 1  380 5185318622521 1  390 5205318542520 1    8
022273IMS3  4  400 5203318492520 1  410 5211318762522 1  420 5224318672521 1  430 5232318752522 1  440 5230318692521 1    9
022273IMS3  4  450 5232318762522 1  460 5233318792522 1  470 5236318792522 1  480 5241319032524 1  490 5260319092524 1   10
022273IMS3  4  500 5252319082524 1  510 5251319132524 1  520 5240319062524 1  530 5212318902523 1  540 5162318962524 1   11
022273IMS3  4  550 5143319372527 1  560 5144319412528 1  570 5139319412528 1  580 5131319322527 1  590 5087319212527 1   12
022273IMS3  4  600 5015319702524 1  610 4880318542524 1  620 4722318732527 1  630 4654319032530 1  640 4586318942530 1   13
022273IMS3  4  650 4549319322533 1  660 4531319282533 1  670 4479319142533 1  680 4432319182533 1  690 4387319212534 1   14
022273IMS3  4  700 4357319232535 1  710 4331319352536 1  720 4322319322536 1  730 4295318972533 1  740 4200318652532 1   15
022273IMS3  4  750 4108319042535 1  760 4083319072536 1  770 4064319212537 1  780 4052319172537 1  790 4033319262538 1   16
022273IMS3  4  800 4026319242538 1  810 4013319222538 1  820 4003319262538 1  830 3996319292539 1  840 4000319382539 1   17
022273IMS3  4  850 4000319362539 1  860 4001319332539 1  870 4003319432540 1  880 4014319362539 1  890 4003319292539 1   18
022273IMS3  4  900 4006319562541 1  910 4041319682541 1  920 4045319342538 1  930 4018319102537 1  940 3984319012536 1   19
022273IMS3  4  950 3930318242531 1  960 3797318112531 1  970 3731319032539 1  980 3708318872538 1  990 3682318972539 1   20
022273IMS3  4 1000 3669319042540 1 1010 3647318982539 1 1020 3632318972539 1 1030 3615318952539 1 1040 3595319022540 1   21
022273IMS3  4 1050 3595319212542 1 1060 3601319042540 1 1070 3571318962540 1 1080 3562319102541 1 1090 3563319142541 1   22
022273IMS3  4 1100 3566319162541 1 1110 3570319272542 1 1120 3588319292542 1 1130 3595319242542 1 1140 3597319252542 1   23
022273IMS3  4 1150 3609319352543 1 1160 3624319372543 1 1170 3636319392543 1 1180 3642319342542 1 1190 3644319342542 1   24
022273IMS3  4 1200 3645319332542 1 1210 3647319362542 1 1220 3649319372542 1 1230 3653319392543 1 1240 3656319392542 1   25
022273IMS3  4 1250 3655319372542 1 1260 3656319462543 1 1270 3662319452543 1 1280 3665319442543 1 1290 3654319282542 1   26
022273IMS3  4 1300 3632319182541 1 1310 3616319302542 1 1320 3609319392543 1 1330 3608319352543 1 1340 3598319422543 1   27
022273IMS3  4 1350 3603319442543 1 1360 3620319762546 1 1370 3654319622544 1 1380 3652319482543 1 1390 3648319502543 1   28
022273IMS3  4 1400 3648319572544 1 1410 3656319612544 1 1420 3662319602544 1 1430 3655319462543 1 1440 3631319382543 1   29
022273IMS3  4 1450 3602319092541 1 1460 3553319222542 1 1470 3531319362543 1 1480 3534319692546 1 1490 3563319812547 1   30
022273IMS3  4 1500 3579319672545 1 1510 3592319712546 1 1520 3595319652545 1 1530 3590319642545 1 1540 3596319772546 1   31
022273IMS3  4 1550 3619319822546 1 1560 3626319822546 1 1570 3647319882546 1 1580 3670320142548 1 1590 3722319982547 1   32
022273IMS3  4 1600 3668319282542 1 1610 3633319872547 1 1620 3656320372550 1 1630 3690320302549 1 1640 3730320672552 1   33
022273IMS3  4 1650 3758320532551 1 1660 3785320432550 1 1670 3776319812545 1 1680 3729319992547 1 1690 3714320152548 1   34
022273IMS3  4 1700 3716320322549 1 1710 3721320362550 1 1720 3895322662566 1 1730 4113322142560 1 1740 4116432202552 1   35
022273IMS3  4 1750 4169321112551 1 1760 4177321282553 1 1770 4221321482554 1 1780 4273321592554 1 1790 4295321522553 1   36
022273IMS3  4 1800 4337321732555 1 1810 4422322152557 1 1820 4498322002555 1 1830 4512321872554 1 1840 4574322582559 1   37
```

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 (√)	(√)
PLESSEY STD MODEL 9040	2/79		NRCC	1 YEAR					
Guildline 8400 AUTOSAL			Guildline						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

Data Set Route Sheet

TR5734 Accession # 80-0131

Step	Completion Date	Init.	Tape #,	# of Files	BLKSIZE,	LRECL
1. Originator Tape #	4/16/80	CBF	W1034	1	600	120
2. Duplicate Tape # (QUADI)	4/17/80	CBF	2280	1	4800	120
3. DDF Evaluation						
4. Quality Review						
5. Preliminary Data Sort						
6. Preliminary Check						
7. First User Tape #	4/21/80	CBF	2465	1	4800	120
8. Final User Tape #	4/21/80	CBF	2454	1	4800	120
9. Final Check						
10. NAPIS Inventory						
11. DIP Inventory						
12. Data Set 'Finalized'						

Tapes 2454 and 2465 both contain all the data from TR5734-TR5736

		ACCESSION NUMBER	80-0131

DATA DOCUMENTATION FORM

TR 5735 F022

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

319227 C022

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

Data Processing
Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99701

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

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

AC275

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 ACONA	SHIP	USA.	USA.	04/18/79	04/26/79

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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

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

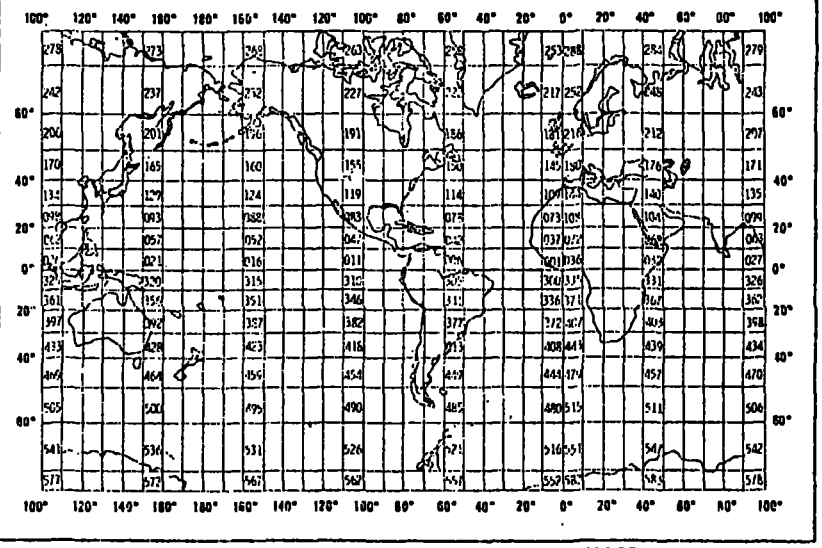
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Data Processing
c/o
CYDNEY HANSEN
907/479-7836
907/479-7074

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

GENERAL AREA



B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
SALINITY	0.001°/oo	NANSEN BOTTLES & PLESSEY STD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & PLESSEY STD	"	N/A
DEPTH	0.1m (1m = 1 db)	THERMOMETRIC DEPTH & PLESSEY STD	"	N/A

IMS STD/CTD DATA REDUCTION

JUNE 1978

STDCP

Raw, 7-track magnectic tapes from 8400 or 8114 Plessey Digitizers are input along with conversion equations specific for each sensor. These equations reflect the latest calibration or factory compliance data. If the FISH contains a conductivity sensor, it 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 on the 7-track tape. Output from this program is input for STDAV.

STDCP PRINT OUT

1) Print out the "FISH" serial number and the equations used to convert frequency to parameters for each FISH used.
2) If conductivity ratios are converted to salinities at this point, the conversion routines are printed out.
3) Input from 7-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators.)

CALVAL

Periods from a frequency counter, taken at the time discrete samples were taken, is 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 and 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.

IMS STD/CTD DATA REDUCTION

JUNE 1978

STDAV

Data from STDCP and CALVAL are input with header information which includes individual station position, time and weather.

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1 m = 1 db) and averaged. Field corrections are added to the one meter averages. (NOTE: depths, and their related data values, are accepted for inclusion in averaging, if and only if, depth N is greater than or equal to depth N + 1).

STDAV PRINT OUT

STDAV print out will include the following in addition to header and data:

1) All header information and corrected data in one meter intervals.
2) Field corrections used, to include mean and standard deviation for each parameter.
3) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
4) Pertinent comments are solicited from the responsible principle investigator and attached to the final print out.

STDAV OUTPUT TAPE

A tape with one meter averages for Depth, Salinity, Temperature, Sigma-T, and Delta-D/per station is generated for data storage and further analysis.

NODC-F

This program is used to convert the output tape from STDAV (IMS STD final format) to an NODC formatted tape for submission to NODC to fulfill contractual obligations.

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 Cydney Hansen (907) 479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, Faribanks, Ak. 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 inch

10. END OF FILE MARK
☐ OCTAL 17
☒ octal 23

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

022 275IMS
ACONA 275
04/18/79 - 04/26/79
Stations: 01-66 Dr. Burrell
9trk,800EBCDIC,NO LABEL, ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
120 bytes/block

13. LENGTH OF BYTES IN BITS
8 bits/byte

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 OSCEAP AND NODC. THERE ARE NO DEVIATIONS FROM THIS TYPE, EXCEPT: 1. col 45-49 depth in meters (I5 to 1/10ths) 2. col 50-53 salinity in 0/00 (I4 to 1/100ths)					

USCOMM-DC 44289-P72

```
0222751IMS1    1THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED
0222751IMS1    1ABOARD THE ACONA BETWEEN 04/18/79 - 04/26/79 BY DR BURRELL
0222751IMS1    1OF THE INSTITUTE OF MARINE SCIENCE. THERE WERE 66 STATIONS TAKEN ON THIS CRUISE.
0222751IMS1    1THIS CRUISE TOOK PLACE IN BOCA DE QUADRA.  STATIONS 46 AND 65 HAD A LOT OF
0222751IMS1    1EXTRAPOLATED DATA AT THE BEGINNING DUE TO THE STD MAGNETIC TAPE STARTING LATE.
0222751IMS1    1NUTRIENTS WERE TAKEN FOR THIS CRUISE, BUT THEY HAVE NOT BEEN PROCESSED YET.
0222751IMS1    1THERE WERE NO OXYGENS TAKEN FOR STATIONS 03, 23, 132, 44, 46, 49, 51, & 65.
0222751IMS1    1STD MODEL 9040, SERIAL NUMBER 5341 WAS USED. EQUATIONS USED TO GENERATE
0222751IMS1    1PARAMETERS FROM FREQUENCY FOLLOW
0222751IMS1    1
0222751IMS1    1                S (S-5024.669D0)*3.4862D-3 +26.0D0
0222751IMS1    1                T (T-2124.976D0)*1.78882D-2 - 2.000
0222751IMS1    1                D (D-9712.628D0)*0.950384100
0222751IMS1    1
0222751IMS1    1DISCRETE SAMPLES WERE TAKEN PRIMARILY FOR FIELD CORRECTION OF STD VALUES.
0222751IMS1    1FIELD CORRECTION FOR THIS CRUISE WAS TAKEN FROM ACONA CRUISE AC275.
0222751IMS1    1FIELD CORRECTION FOR THE STD DATA WAS DERIVED BY COMPARING SINGLE BOTTLE SAMPLES
0222751IMS1    1TO RECORDED PERIODS FROM THE STD SENSORS.  THE FIELD CORRECTION IS BASED ON 14
0222751IMS1    1SAMPLES FROM A TOTAL OF 66 STATIONS. THE FIELD CORRECTION IS
0222751IMS1    1                          TEMPERATURE MEAN(NANSEN-STD)   IS 0.02733
0222751IMS1    1                STANDARD DEVIATION OF DIFFS(NANSEN-STD)   IS 0.00746
0222751IMS1    1                             SALINITY MEAN(NANSEN-STD)   IS-0.02046
0222751IMS1    1                STANDARD DEVIATION OF DIFFS(NANSEN-STD)   IS 0.00886
0222751IMS2    160 120N1492150W275          27979 41816551 1010132    0  44181552758MOD9040 SN5341     RES2.5  287 278
0222751IMS3    1    0 39713146725021   10 39573143825001   20 39443144625011   30 39703156425101   40 40523156625091
0222751IMS3    1   50 40773153825071   60 40643152925061   70 40773152425061   80 40643152225061   90 40553152925061
0222751IMS3    1  100 40673157725101  110 40863159025111  120 40723159425111  130 40243158925111  140 40123161025131
0222751IMS3    1  150 40063141925141  160 40133166525171  170 40753171425211  180 41653167025161  190 41533163325141
0222751IMS3    1  200 40953162325131  210 40523162325141  220 40183163225151  230 39763161225141  240 39263162325151
0222751IMS3    1  250 39063144425171  260 39113165925181  270 39363167125191  280 39633169425201  290 39483165525171
0222751IMS3    1  300 39313146025181  310 39243166425181  320 39143163525161  330 37803164325181  340 37433167425211
0222751IMS3    1  350 37333167325211  360 36973166625201  370 36803169425231  380 36833169925231  390 36643170825241
0222751IMS3    1  400 36923171225241  410 36923171525241  420 36963172225251  430 37013173325261  440 37043173825261
0222751IMS3    1  450 37053174525271  460 37213176425281  470 37293178125291  480 37513180725311  490 37603180125311
0222751IMS3    1  500 37693180225311  510 37743180025301  520 37773180825311  530 37853181925321  540 37973182225321
0222751IMS3    1  550 38153183825331  560 38303184325331  570 38403184925341  580 38533186425351  590 38753187025351
0222751IMS3    1  600 38813186825351  610 38893186925351  620 38893187025351  630 38983187725351  640 39013188925361
0222751IMS3    1  650 39133188725361  660 39163188725361  670 39203188925361  680 39233188925361  690 39223188825361
0222751IMS3    1  700 39233188925361  710 39223188925361  720 39233189025361  730 39263189425361  740 39323190325371
0222751IMS3    1  750 39423190225371  760 39473190025371  770 39513191425381  780 39673191925381  790 39793192425381
0222751IMS3    1  800 39883193625391  810 40033193725391  820 40053193525391  830 40163195725411  840 40303194925401
0222751IMS3    1  850 40373197125411  860 40663197125411  870 40743197825421  880 40843197825421  890 40863197625411
0222751IMS3    1  900 40783198225421  910 40983200925441  920 41093199425431  930 41123198025421  940 40993198625421
0222751IMS3    1  950 40903199525431  960 40963200725441  970 41053201025441  980 41133201525441  990 41273202525451
0222751IMS3    1 1000 41303201825441 1010 41053200825441 1020 40883203225461 1030 41003202925451 1040 40793203325461
0222751IMS3    1 1050 40773204225471 1060 40833205425481 1070 40853205925481 1080 40983206925491 1090 41063207625491
0222751IMS3    1 1100 41183207725491 1110 41233208525501 1120 41373208925501 1130 41483208725501 1140 41483209025501
0222751IMS3    1 1150 41533209025501 1160 41543209525501 1170 41623211225511 1180 41843211925521 1190 42103212825521
0222751IMS3    1 1200 42303212025511 1210 42313211825511 1220 42343212325521 1230 42413212825521 1240 42453213525521
0222751IMS3    1 1250 42503213325521 1260 42553213225521 1270 42633214225531 1280 42703214525531 1290 42803216025541
0222751IMS3    1 1300 42923215725541 1310 42983215725541 1320 43043216425541 1330 43103215525531 1340 43053215425531
0222751IMS3    1 1350 42933215425531 1360 42873215725541 1370 42873216025541 1380 42873216225541 1390 42853216425541
0222751IMS3    1 1400 42953217625551 1410 43023218725561 1420 43103218725561 1430 43083218925561 1440 43053218625561
0222751IMS3    1 1450 43193221225581 1460 43433222425591 1470 43593221825581 1480 43693221325571 1490 43733221725581
0222751IMS3    1 1500 43803222525581 1510 43873222325581 1520 43873222225581 1530 43923222325581 1540 43933222125581
0222751IMS3    1 1550 43953222425581 1560 43953222525581 1570 43993222725581 1580 43973222725581 1590 44023223025581
0222751IMS3    1 1600 43993222625581 1610 44003222825581 1620 44003222325581 1630 43983226025611 1640 44153225325601
0222751IMS3    1 1650 44113225125601 1660 44143225425601 1670 44213227425621 1680 44383227325611 1690 44423227125611
0222751IMS3    1 1700 44473227225611 1710 44473227425621 1720 44533228725621 1730 44663229825631 1740 44843229025621
0222751IMS3    1 1750 44763227725611 1760 44643227725621 1770 44613229025631 1780 44623229825631 1790 44643229825631
```

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 (√)	(√)
PLESSEY STD MODEL 9040	2/79		NRCC	1 YEAR					
AUTOSAL Guildline 8400			Guildline						

NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO:

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	B/KSIZE	RECFM	REMARKS
ORIGINATOR	W1384	NL	120	600	FB	DEN=2
DUPLICATE	2289	NL	120	4800	FB	
REFORMATTED						
FIRST USER	2454	NL	120	4800	FB	CONTAINS TR5734 TO TR5736
FINAL USER	2465	NL	120	4800	FB	CONTAINS TR5734 TO TR5736

Data Set Route Sheet

TR5735 Accession # 80-0131

Step	Completion Date	Init.	Tape #,	# of Files	BLKSIZE,	LRECL
1. Originator Tape #						
2. Duplicate Tape # QUADI						
3. DDF Evaluation						
4. Quality Review						
5. Preliminary Data Sort						
6. Preliminary Check						
7. First User Tape #	4/21/80	CBH	2454	1	4800	120
8. Final User Tape #	4/21/80	CBH	2465	1	4800	120
9. Final Check						
10. NAPIS Inventory						
11. DIP Inventory						
12. Data Set 'Finalized'						

Tapes 2454 and 2465 both contain all the data from TR5734 to TR5736.

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 OCSEAP AND NODC. THE ONLY DEVIATIONS FROM THIS TYPE ARE:					1. Columns 45-49, Depth in Meters (I5 to tenths) 2. Columns 50-53, Salinity in parts/thousand (I4 to hundreths)

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		

USCOMM-DC 44269-P72

ACCESSION NUMBER 80-0131

DATA DOCUMENTATION FORM

TR 5736 F022

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

319228 C022

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

Data Processing
Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99701

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

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

AC276

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 Acona	Ship	U.S.A.	U.S.A.	05/10/79	05/10/79

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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

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

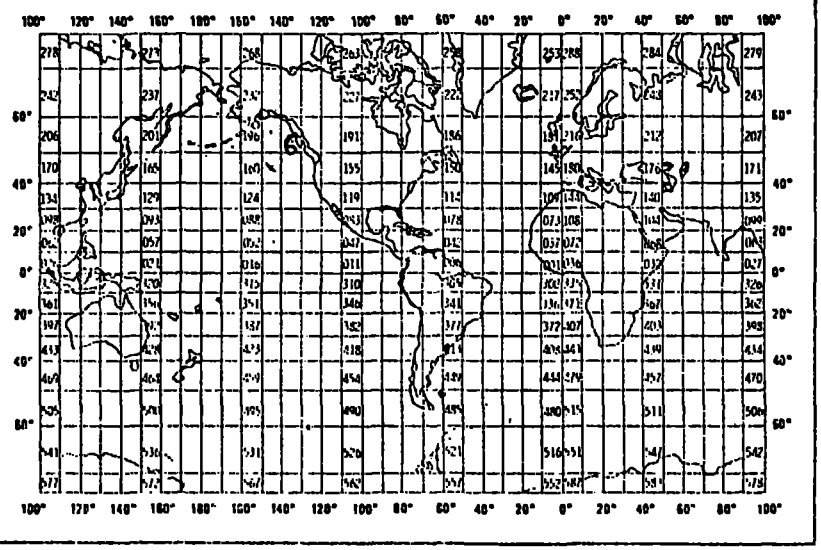
☐ NO ☒ YES ☐ PART *(SPECIFY BELOW)*

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

Data Processing
c/o CYDNEY HANSEN
907/479-7836
907/479-7074

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

GENERAL AREA



NOAA FORM 24-13

USCOMM-DC 44289-P72

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°/oo	NANSEN BOTTLES & PLESSEY STD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & PLESSEY STD	"	N/A
DEPTH	0.1m (1m = 1 db)	THERMOMETRIC DEPTH & PLESSEY STD	"	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

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 Cydney Hansen (907) 479-7836

ADDRESS Institute of Marine Science, Univ. of Alaska, Faribanks, Ak. 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 inch

10. END OF FILE MARK
☐ OCTAL 17
☒ octal 23

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

022 276IMS
ACONA 276
05/10/79
Stations: 01 & 02
Dr. Burrell
9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY

12. PHYSICAL BLOCK LENGTH IN BYTES
120 bytes/block

13. LENGTH OF BYTES IN BITS
8 bits/byte

```
022276IMS1     1THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                                  1
022276IMS1     1ABOARD THE ACONA ON 05/10/79 BY DR. BURRELL OF THE INSTITUTE OF MARINE SCIENCE.                                   2
022276IMS1     1THERE WERE A TOTAL OF TWO STATIONS IN THE RESURRECTION BAY AREA.                                                  3
022276IMS1     1STATION 01 HAD THE NEPHELOMETER RECORDED ON THE 4TH CHANNEL. DISCRETE                                             4
022276IMS1     1SAMPLES WERE ONLY TAKEN ON STATION 01. STATION 02 HAD STD DATA ONLY.                                              5
022276IMS1     1STD MODEL 9040, SERIAL NUMBER 5341 WAS USED. EQUATIONS USED TO GENERATE                                           6
022276IMS1     1PARAMETERS FROM FREQUENCY FOLLOW                                                                                  7
022276IMS1     1                                                                                                                  8
022276IMS1     1               S (S-5024.669D0)*3.4862D-3 +26.0D0                                                                 9
022276IMS1     1               T (T-2124.976D0)*1.78882D-2 - 2.0D0                                                               10
022276IMS1     1               D (D-9712.628D0)*0.9503841D0                                                                      11
022276IMS1     1                                                                                                                 12
022276IMS1     1FIELD CORRECTION FOR THIS CRUISE WAS TAKEN FROM ACONA CRUISE AC277.(NOT AC276)                                   13
022276IMS1     1FIELD CORRECTION FOR THE STD DATA WAS DERIVED BY COMPARING SINGLE BOTTLE SAMPLES                                  14
022276IMS1     1TO RECORDED PERIODS FROM THE STD SENSORS.  THE FIELD CORRECTION IS BASED ON 20                                    15
022276IMS1     1SAMPLES FROM A TOTAL OF 86 STATIONS. THE FIELD CORRECTION IS                                                     16
022276IMS1     1                                                                                                                 17
022276IMS1     1                        TEMPERATURE MEAN(NANSEN-STD)   IS    0.02610                                          18
022276IMS1     1               STANDARD DEVIATION OF DIFFS(NANSEN-STD)   IS    0.00772                                         19
022276IMS1     1                           SALINITY MEAN(NANSEN-STD)   IS   -0.01693                                          20
022276IMS1     1               STANDARD DEVIATION OF DIFFS(NANSEN-STD)   IS    0.00943                                         21
022276IMS1     1                                                                                                                 22
022276IMS2     160 160N1492150W276          28579 51020561 1010032   0 12235 822678MOD9040 SN5341      RES2.5  288 284
022276IMS3     1     0 566731123245710 566731123245720 568231178246230 569831165246040 571231260246841
022276IMS3     1    50 577431420248010 578431336247310 568831207246410 545731234246810 526831286247510
022276IMS3     1   100 511731280247610 493431292247910 480631285247910 467331459249510 462331511249910
022276IMS3     1   150 459131498249910 453031523250110 450831620250910 450131563250510 446331637251110
022276IMS3     1   200 450231639251110 447531623251010 444431604250810 436731593250810 429531592250910
022276IMS3     1   250 428031673251510 429331654251410 426531642251310 427031675251610 425631662251510
022276IMS3     1   300 419831603251110 413231629251310 407431630251410 402631643251610 402431719252210
022276IMS3     1   350 403931714252110 406831748252310 370431143171520 408531702252010 405931698252010
022276IMS3     1   400 405831747252310 409031761252410 411031762252410 408631729252210 413731811252810
022276IMS3     1   450 418531794252610 418331750252310 414431754252310 413931739252210 403831672251810
022276IMS3     1   500 396931729252310 397331764252610 395531734252310 390931744252510 389531760252610
022276IMS3     1   550 389731763252610 387431764252710 388331802253010 389231815253110 389231802252910
022276IMS3     1   600 390231808253010 389331804253010 388531813253010 387131819253110 386831820253110
022276IMS3     1   650 387531824253110 388231830253210 387531862253410 391131851253310 391231848253310
022276IMS3     1   700 390931847253310 391031853253310 390431864253410 391131874253510 391631871253510
022276IMS3     1   750 391631882253610 391931890253610 393431894253610 394031900253710 394731908253710
022276IMS3     1   800 396731910253710 395831914253810 396831924253810 396431926253910 399531938253910
022276IMS3     1   850 400431941253910 400131971254210 403531972254210 401731979254210 404031977254210
022276IMS3     1   900 405831986254210 406231200254410 408631202025410 409231201254510 411132025254510
022276IMS3     1   950 412132030254510 412532037254610 412732057254710 416332058254710 417032067254810
022276IMS3     1  1000 418632080254910 418032081254910 421032091254910 418832096255010 423432104255010
022276IMS3     1  1050 423032105255010 423332119255110 424432121255110 423332124255210 425132140255310
022276IMS3     1  1100 427432151255310 428932158255410 429932162255410 428632163255410 430532165255410
022276IMS3     1  1150 429232178255510 433032184255610 433432186255610 432632185255610 430632188255610
022276IMS3     1  1200 431232191255610 432632193255610 433732208255710 434532209255710 434132206255710
022276IMS3     1  1250 436132220255810 438132227255810 436932234255910 438332244256010 440032251256010
022276IMS3     1  1300 441232254256010 441232255256010 443032249256010 441532263256110 441332276256210
022276IMS3     1  1350 446332275256110 444432281256210 445132284256210 446032283256210 446432286256210
022276IMS3     1  1400 447132290256310 446432292256310 445932290256310 445732294256310 447332309256410
022276IMS3     1  1450 449532316256410 450532322256510 453232319256410 451132318256410 451432355256710
022276IMS3     1  1500 456332359256710 456032360256710 456732353256610 457532348256610 459532350256610
022276IMS3     1  1550 458632348256610 460132350256610 455632351256610 458132351256610 460532355256610
022276IMS3     1  1600 460032362256710 459132363256710 461432381256810 461432381256810 463532382256810
022276IMS3     1  1650 463732390256910 465232401256910 468632426257110 468432428257110 470332427257110
022276IMS3     1  1700 471032433257110 471632433257110 471932439257210 472332446257210 473532443257210
022276IMS3     1  1750 473732451257210 474832450257210 473532454257310 475932460257310 474232469257410
022276IMS3     1  1800 475132470257410 478132477257410 476232477257410 477332485257510 479632485257510
```

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 (√)	(√)
PLESSEY STD MODEL 9040	2/79		NRCC	1 YEAR					
AUTOSAL Guildline 8400			Guildline						

NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.

80-0131

TAPE ASSIGNMENT SHEET (MRL) 11/6/78
TR5736

~~ACCESSION NO:~~

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS
ORIGINATOR	W1388	NL	120	600	FB	DEN=2
DUPLICATE	2386	NL	120	4800	FB	
REFORMATTED						
FIRST USER	2454	NL	120	4800	FB	TAPE CONTAINS TR5734 TO TR5736
FINAL USER	2465	NL	120	4800	FB	TAPE CONTAINS TR5734 TO TR5736

Data Set Route Sheet

TR5736 Accession # 80-0131

Step	Completion Date	Init.	Tape #,	# of Files	BLKSIZE,	LRECL
1. Originator Tape #	4/16/80	CBL	W1388	1	600	120
2. QUADI Duplicate Tape #	4/17/80	CBL	2386	1	4800	120
3. DDF Evaluation						
4. Quality Review						
5. Preliminary Data Sort						
6. Preliminary Check						
7. First User Tape #	4/21/80	CBL	2454	1	4800	120
8. Final User Tape #	4/21/80	CBL	2465	1	4800	120
9. Final Check						
10. NAPIS Inventory						
11. DIP Inventory						
12. Data Set 'Finalized'						

Tapes 2454 and 2465 contain all the data from TR5734-TR5736.

~~75~~ 44

022-5

2634 13394 (C4164)

120/4300, F022 #1 ~~B~~02012

TR 4169-4173, 4490, 4439-4443, 4449-4451, 4459-4460,
4936-4938, 5102, 5487-5492, 5598-5605, 5734-5737,
5917-5918 5314-5315, 5322-5323

184,261
~~164,676~~

---

accession nos: 80-0132

TR 5734-36 80-0131

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO: 80-0131 TR5734

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS
ORIGINATOR	W1034	NL	120	600	FB	DEN=2
DUPLICATE	2280	NL	120	4800	FB	
REFORMATTED						
FIRST USER	2454 ~~2465~~	NL	120	4800	FB	CONTAINS TR5734 TO TR5736
FINAL USER	2465 ~~2454~~	NL	120	4800	FB	CONTAINS TR5734 TO TR5736

```
NSDCHEK *** NON-STANDARD DATA FIELD CHECKING PROGRAM
THIS IS 01/11/79 VERSION WITH FULL CODE CHECKING

USER'S INPUT REQUESTS FOLLOW:
LRECL HAS BEEN SPECIFIED AS 120
STATION HEADER RECORD SPECIFIED AS 2
RECORD TYPES FLAGGED FOR RETRIEVAL ARE - 12345
STATION STARTS IN POSITION  11 FOR  5 BYTES
STATION WILL APPEAR ON RECORD TYPES : 2345
RECORD TYPE WILL BE TAKEN FROM COLUMN 10 OF THE INPUT RECORDS
FILETYPE IS C22

NO OBVIOUS ERRORS FOUND IN TABLE GENERATION PHASE - SUCCESSFUL EXECUTION EXPECTED
**********************************************************************************
022TR57341    4THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
   ??????
FIRST FILE ID
THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC/Z=NO CHECKING
```

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED LOW	RANGE TESTED HIGH	ACTUAL RANGE LOWEST	ACTUAL RANGE HIGHEST	MEAN	S. DEV	COUNT	FP	FP-1	>-1
M	2	16	2	LAT DEG	15	89	60	60	60.00	00	6	6	0	0
M	2	18	4	LAT MIN TO .01	0	5999	330	4970	3539.83	1518.61	6	6	0	0
C	2	22	1	0500LAT HEM							6			
M	2	23	3	LON DEG	50	179	147	148	147.50	50	6	6	0	0
M	2	26	4	LON MIN TO .01	0	5999	370	5670	3030.00	1862.80	6	6	0	0
C	2	30	1	0501LON HEM							6			
N	2	41	5	NUM. OF SCANS/STATION AT 5/REC	1	99999	239	732	442.16	173.62	6	6	0	0
M	2	46	2	YEAR	NO RANGE CHECKING		79	79	79.00	00	6	6	0	0
M	2	48	2	MONTH	1	12	3	3	3.00	00	6	6	0	0
M	2	50	2	DAY	1	31	17	21	18.33	1.41	6	6	0	0
M	2	52	2	HOUR	0	23	0	21	12.50	8.92	6	6	0	0
N	2	54	2	MINUTE	0	59	5	53	35.50	18.69	6	6	0	0
C	2	56	1	0216DEPTH INTERVAL INDIC.							6			
N	2	57	3	DEPTH INTVL. METERS TO .1	1	999	10	10	10.00	00	6	6	0	0
N	2	60	4	BAROMETRIC PRESS MB TO .1	944	1050	995	1021	1002.16	9.58	6	6	0	0
N	2	65	4	WET-BULB DEG CENTIGRADE TO .1	-300	400	0	0	00	00	6	6	0	0
N	2	69	4	DRY-BULB DEG C TO .1	-300	400	17	50	30.50	10.43	6	6	0	0
C	2	73	2	0110 WIND DIR IN TENS OF DEG							6			
N	2	75	2	WIND SPEED IN KILOMETERS	0	70	3	15	9.66	4.69	6	6	0	0
C	2	77	1	0108WEATHER CODE							6			
C	2	78	1	0109SEA STATE CODE							6			
C	2	79	1	0157VISIBILITY CODE							5			
C	2	80	1	0053CLOUD TYPE CODE							2			
C	2	81	1	0105CLOUD AMOUNT CODE							2			
N	2	108	5	BOTTOM DEPTH IN WHOLE METERS	0	8000	241	732	444.00	173.28	6	6	0	0
N	2	113	4	MAX DEPTH OF CAST METERS	0	6000	238	731	441.16	173.62	6	6	0	0
B	2	117	4								6			
N	3	16	5	DEPTH1 METERS TO .1	0	60000	0	7300	2534.99	1796.29	533	533	0	0
N	3	36	5	DEPTH2 METERS TO .1	1	60000	10	7310	2544.99	1796.29	533	533	0	0
N	3	56	5	DEPTH3 METERS TO .1	2	60000	20	7270	2543.01	1788.40	530	530	0	0
N	3	76	5	DEPTH4 METERS TO .1	3	60000	30	7280	2550.03	1788.77	529	529	0	0
N	3	96	5	DEPTH5 METERS TO .1	4	60000	40	7290	2560.35	1790.45	528	528	0	0
N	3	21	5	TEMPER1 DEGREES C TO .001	-2000	33000	2733	6138	4955.77	689.21	533	533	0	0
N	3	41	5	TEMPER2 DEGREES C TO .001	-2000	33000	2733	6156	4959.68	687.30	533	533	0	0
N	3	61	5	TEMPER3 DEGREES C TO .001	-2000	33000	2733	6195	4961.90	685.68	530	530	0	0
N	3	81	5	TEMPER4 DEGREES C TO .001	-2000	33000	2733	6181	4965.35	683.11	529	529	0	0
N	3	101	5	TEMPER5 DEGREES C TO .001	-2000	33000	2747	6154	4966.97	681.28	528	528	0	0
N	3	26	5	SALINITY1 PPT TO .001	10000	36500	30191	33009	32360.79	511.38	533	533	0	0
N	3	46	5	SALINITY2 PPT TO .001	10000	36500	30191	33009	32365.46	506.57	533	533	0	0

N	3	66	5	SALINITY3 PPT TO .001	10000	36500	30191	33009	32367.33	502.76	530	530	0	0
N	3	86	5	SALINITY4 PPT TO .001	10000	36500	30191	33009	32370.34	499.66	529	529	0	0
N	3	106	5	SALINITY5 PPT TO .001	10000	36500	30262	33009	32373.09	497.16	528	528	0	0
N	3	31	4	SIGMA-T1 TO .01	315	3000	2411	2610	2562.67	36.29	533	533	0	0
N	3	51	4	SIGMA-T2 TO .01	315	3000	2411	2610	2563.02	35.74	533	533	0	0
N	3	71	4	SIGMA-T3 TO .01	315	3000	2411	2610	2563.13	35.31	530	530	0	0
N	3	91	4	SIGMA-T4 TO .01	315	3000	2411	2610	2563.35	35.36	529	529	0	0
N	3	111	4	SIGMA-T5 TO .01	315	3000	2417	2610	2563.55	35.00	528	528	0	0
C	3	35	1	0080SCAN CONDITION1 CODE							533			
C	3	55	1	0080SCAN CONDITION2 CODE							533			
C	3	75	1	0080SCAN CONDITION3 CODE							530			
C	3	95	1	0080SCAN CONDITION4 CODE							529			
C	3	115	1	0080SCAN CONDITION5 CODE							528			
N	4	16	5	DEPTH6 IN METERS TO .1	5	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	36	5	DEPTH7 IN METERS TO .1	6	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	56	5	DEPTH8 IN METERS TO .1	7	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	76	5	DEPTH9 IN METERS TO .1	8	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	96	5	DEPTH10 IN METERS TO .1	9	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	21	5	DISSOLVED OXYGEN1 ML/L TO .001	1	15000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	41	5	DISSOLVED OXYGEN2 ML/L TO .001	1	15000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	61	5	DISSOLVED OXYGEN3 ML/L TO .001	1	15000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	81	5	DISSOLVED OXYGEN4 ML/L TO .001	1	15000	NO VALUES FOUND FOR THIS PARAMETER							
N	4	101	5	DISSOLVED OXYGEN5 ML/L TO .001	1	15000	NO VALUES FOUND FOR THIS PARAMETER							
C	4	35	1	0080SCAN CONDITION6 CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	4	55	1	0080SCAN CONDITION7 CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	4	74	1	0080SCAN CONDITION8 CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	4	95	1	0080SCAN CONDITION9 CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	4	115	1	0080SCAN CONDITION10 CODE			NO VALUES FOUND FOR THIS PARAMETER							
N	4	26	5	TRANSMISSIVITY1 % TO .001	1	99000	NO VALUES FOUND FOR THIS PARAMETER							
B	4	31	4				NO VALUES FOUND FOR THIS PARAMETER							
N	4	46	5	TRANSMISSIVITY2 % TO .001	1	99000	NO VALUES FOUND FOR THIS PARAMETER							
B	4	51	4				NO VALUES FOUND FOR THIS PARAMETER							
N	4	66	5	TRANSMISSIVITY3 % TO .001	1	99000	NO VALUES FOUND FOR THIS PARAMETER							
B	4	71	4				NO VALUES FOUND FOR THIS PARAMETER							
N	4	86	5	TRANSMISSIVITY4 % TO .001	1	99000	NO VALUES FOUND FOR THIS PARAMETER							
B	4	96	4				NO VALUES FOUND FOR THIS PARAMETER							
N	4	106	5	TRANSMISSIVITY5 % TO .001	1	99000	NO VALUES FOUND FOR THIS PARAMETER							
B	4	111	4				NO VALUES FOUND FOR THIS PARAMETER							
N	5	16	5	DEPTH1 METERS TO .1	0	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	36	5	DEPTH2 METERS TO .1	1	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	56	5	DEPTH3 METERS TO .1	2	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	76	5	DEPTH4 METERS TO .1	3	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	96	5	DEPTH5 METERS TO .1	4	60000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	21	5	TEMPER1 DEGREES C TO .001	-2000	20000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	41	5	TEMPER2 DEGREES C TO .001	-2000	20000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	61	5	TEMPER3 DEGREES C TO .001	-2000	20000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	81	5	TEMPER4 DEGREES C TO .001	-2000	20000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	101	5	TEMPER5 DEGREES C TO .001	-2000	20000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	26	5	CONDUCT1 MMHO/CM TO .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	46	5	CONDUCT2 MMHO/CM TO .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	66	5	CONDUCT3 MMHO/CM TO .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	86	5	CONDUCT4 MMHO/CM TO .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	106	5	CONDUCT5 MMHO/CM TO .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	31	4	SIGMA-T1 TO .01	315	3000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	51	4	SIGMA-T2 TO .01	315	3000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	71	4	SIGMA-T3 TO .01	315	3000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	91	4	SIGMA-T4 TO .01	315	3000	NO VALUES FOUND FOR THIS PARAMETER							
N	5	111	4	SIGMA-T5 TO .01	315	3000	NO VALUES FOUND FOR THIS PARAMETER							
C	5	35	1	0080SCAN CONDITION CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	5	55	1	0080SCAN CONDITION CODE			NO VALUES FOUND FOR THIS PARAMETER							

```
C 5  75   1 JO8JSCAN CONDITION CODE                          NO VALUES FOUND FOR THIS PARAMETER
N 5  95   1 UO8OSCAN CONDITION CODE      NO RANGE CHECKING   NO VALUES FOUND FOR THIS PARAMETER
N 5 115   1 JJ8OSCAN CONDITION CODE      NO RANGE CHECKING   NO VALUES FOUND FOR THIS PARAMETER

RECORDS READ :        671
```

NANSEN REF. # 319227

MULDARS TRACK # 5735

MONITOR: CONTACT CHUCK

LOCATION OF F022 SOURCE ARCHIVE

RECORD ALL ERRORS FOUND

CONSEC(S)	SALINITY ERRORS FOUND AT FOLLOWING DEPTHS
10	4m
12	6
13	22
16	6
18	250
39	DELETE TIME

Muldars corrections made 11/21/83 MK.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8000131	F022	TR5734	9999	31W5	31AC	1979/03/17	AC273	311631
8000131	C022	319226	9999	31W5	31AC	1979/03/17	TR5734	311632
8000131	F022	TR5735	9999	31W5	31AC	1979/04/18	AC275	311633
8000131	C022	319227	9999	31W5	31AC	1979/04/18	TR5735	311634
8000131	F022	TR5736	9999	31W5	31AC	1979/05/10	AC276	311635
8000131	C022	319228	9999	31W5	31AC	1979/05/10	TR5736	311636

(6 rows affected)

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8000131 F022 TR5734 31AC 6      671    79/03/17   79/03/21
 8000131 C022 319226 31AC 6      10     79/03/17   79/03/21
 8000131 F022 TR5735 31AC 66     4277   79/04/18   79/04/26
 8000131 C022 319227 31AC 66     74     79/04/18   79/04/26
 8000131 F022 TR5736 31AC 2      160    79/05/10   79/05/10
 8000131 C022 319228 31AC 2      2      79/05/10   79/05/10

(6 rows affected)
```