

ACCESSION
NUMBER

8100478

W1674

DATA DOCUMENTATION FORM

TR6901 - TR6910 F022

329256 - 329265 C022

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

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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	
		RT12	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V REDOUBT	SHIP	PLATFORM	OPERATOR
		USA	USA
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		10/07/80	10/13/80
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 type="checkbox"/> NO <input checked="" 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) Marcia Boyette (907) 479-9072 (907) 479-7836			

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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		Sept. 80	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater 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) 479-7836
ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> <u>OCTAL 23</u></p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 011IMS REDOUBT CRUISE RT11 Dr. Burrell 09/16/80 - 09/25/80</p> <p>9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bit bytes</p>

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

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W195φ

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		RT11	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V REDOUBT	SHIP	USA USA	FROM: MO, DAY, YR TO: MO, DAY, YR 09/16/80 09/25/80
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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INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		AUG. 79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

ACTION REQUESTED: COPY IN TO OT 1 FILE.
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 287 RECORDS

FILE OT, REWOUND

ACTION COMPLETED: COPIED IN TO OT 1 FILE.

ACTION REQUESTED: DUMP OT 15 RECORDS.

FILE CODE	OT	FILE NUMBER	1	15 RECORDS.				
CC	R	1	360362362360	361360311324	342361100100	100100361343	310305100344	0220101MS1
CC	CC	21	325311345305	331342311343	350100326306	100301323301	342322301100	NIVE
CC	CC	41	311342100331	305342327326	325342311302	323305100306	326331100343	IS
CC	CC	61	310311342100	304301343301	100346310311	303310100346	301342100303	MIS
CC	CC	81	326323323305	303343305304	100100100100	100100100100	100100100100	COLLECTED
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100361	
CC	R	2	360362362360	361360311324	342361100100	100100361301	302326301331	0220101MS1
CC	CC	21	304100343310	305100331141	345100331305	304326344302	343100303331	C THE R
CC	CC	41	344311342305	100331343361	360100302305	343346305305	325100360370	UISE
CC	CC	61	141360366141	370360100343	326100360370	141361361141	370360100302	/C6/
CC	CC	81	350100304331	113100302344	331331305323	323100100100	100100100100	Y DR.
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100362	
CC	R	3	360362362360	361360311324	342361100100	100100361326	306100343310	0220101MS1
CC	CC	21	305100311325	342343311343	344343305100	326306100324	301331311325	E INSTI
CC	CC	41	305100342303	311305325303	305113100100	100100100100	100100100100	E SCIENCE.
CC	CC	61	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100363	
CC	R	4	360362362360	361360311324	342361100100	100100361343	310305331305	0220101MS1
CC	CC	21	100346305331	305100301100	343326343301	323100326306	100361364100	WERE A
CC	CC	41	342343301343	311326325342	100311325100	343310305100	302326303301	STATIONS
CC	CC	61	100304305100	330344301304	531301100301	331305301113	100100100100	DE QUAD
CC	CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100364	
CC	R	5	360362362360	361360311324	342361100100	100100361343	310305100342	0220101MS1
CC	CC	21	343301345311	326325100325	344324302305	331342100301	331305100361	TATION
CC	CC	41	153364153370	153361363153	362360153362	365113325326	100304301343	4.8.13
CC	CC	61	301100306326	331100342343	301113100362	153366153371	153361360153	A FOR

FILE CODE	OT	FILE NUMBER	1	15 RECORDS.				
CC	R	81	361362140361	363153361370	140361371153	362361113100	100100100100	12-13.12-19.21
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100365	
CC	R	6	360362362360	361360311324	342361100100	100100361306	311305323304	0220101MS1
CC	CC	21	100303326331	331305303343	311326325100	306326331100	343310311342	CORRECTION
CC	CC	41	100303331344	311342305100	346301342100	343301322305	325100306331	CRU
CC	CC	61	326324100331	305304326344	302343100303	331344311342	305100331343	ON REQUEST
CC	CC	81	361360113100	100100100100	100100100100	100100100100	100100100100	CAL
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100365	10.
CC	R	7	360362362360	361360311324	342361100100	100100361306	311305323304	0220101MS1
CC	CC	21	100303326331	331305303343	311326325100	306326331100	343310305100	CORRECTION
CC	CC	41	342343304100	304301343301	100346301342	100304305331	311345305304	STD
CC	CC	61	100302350100	303326324327	301331311325	307100342311	325307323305	BY COMP
CC	CC	81	100302326343	343323305100	342301324327	323305342100	100100100100	BOTTLE
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100367	SAMPLE
CC	R	8	360362362360	361360311324	342361100100	100100361343	326100331305	0220101MS1
CC	CC	21	303326331304	305304100345	301323344305	342100306331	326324100343	CORRECTION
CC	CC	41	310305100342	343304100342	305325342326	331342113100	100343310305	HE
CC	CC	61	100306311305	323304100303	326331331305	303343311326	325100331342	FILED
CC	CC	81	100302301342	305304100326	325100364100	100100100100	100100100100	BASED
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100370	ON
CC	R	9	360362362360	361360311324	342361100100	100100361342	301324327323	0220101MS1
CC	CC	21	305342100306	331326324100	301100343326	343301323100	326306100361	ES FROM
CC	CC	41	364100342343	301343311326	325342113100	343310305100	306311305323	4 STATIONS.
CC	CC	61	304100303326	331331305303	343311326325	303311342100	100100100100	D CORRECTIO
CC	CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100100371	
CC	R	10	360362362360	361360311324	342361100100	100100361100	100100100100	0220101MS1
CC	CC	21	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100361360	
CC	R	11	360362362360	361360311324	342361100100	100100361100	100100100100	0220101MS1
CC	CC	21	100100100100	100100100100	100100100100	100100100100	100100100343	TEMPERATURE
CC	CC	41	305324327305	331301343344	331305100324	305301325115	325301325342	EN-STD)
CC	CC	61	305325140342	343304135100	100311342100	100360113360	364370371363	IS
CC	CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100361361	
CC	R	12	360362362360	361360311324	342361100100	100100361100	100100100100	0220101MS1
CC	CC	21	100100100100	100100100100	100100100100	100100100100	100100100100	
CC	CC	41	100100342301	323311325311	343350100324	305301325115	325301325342	SALINITY
CC	CC	61	305325140342	343304135100	100311342100	140360113360	364370366370	EN-STD)
CC	CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	IS
CC	CC	101	100100100100	100100100100	100100100100	100100100100	100100361362	
CC	R	13	360362362360	361360311324	342362100100	100100361365	365361370371	0220101MS2
CC	CC	21	360325361363	360364361366	360346360361	360100311325	343305331100	ON
CC	CC	41	100100100100	361370360100	370100367361	367100360361	100361360100	180
CC	CC	61	100100100360	100100100100	100100100100	360360100360	100360100100	3 717
CC	CC	81	100326303305	301325100303	301342342305	343343305100	100100100100	OCEAN
CC	CC	101	100342302100	100100360100	100100100360	100100100367	100100100100	CASSETT

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
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2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

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REPEATS

3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
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4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

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

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<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 010IMS REDOUBT CRUISE RT10 Dr. Burrell 08/06/80 - 08/11/80 Stations: 1,4,8,13,20,25. 9 trk, 800BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bit bytes</p>

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Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

ACCESSION
NUMBER

DATA DOCUMENTATION FORM

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

Accompany all data submissions to NODC. Section A, Originator Identification, is to be completed when the data are submitted. It is highly desirable for NODC to also receive the following information at that time. This may be most easily accomplished by attaching photos, maps, or manuscripts which are readily available describing data collection, analytical methods, etc. Readable, handwritten submissions are acceptable in all cases. All information should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

TO BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

LINE SCIENCE
M. A. SKA, O'NEILL RES. BLDG.
A. 99701

2. PROJECT OR PROGRAM DURING WHICH DATA WERE COLLECTED

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

RT10

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)

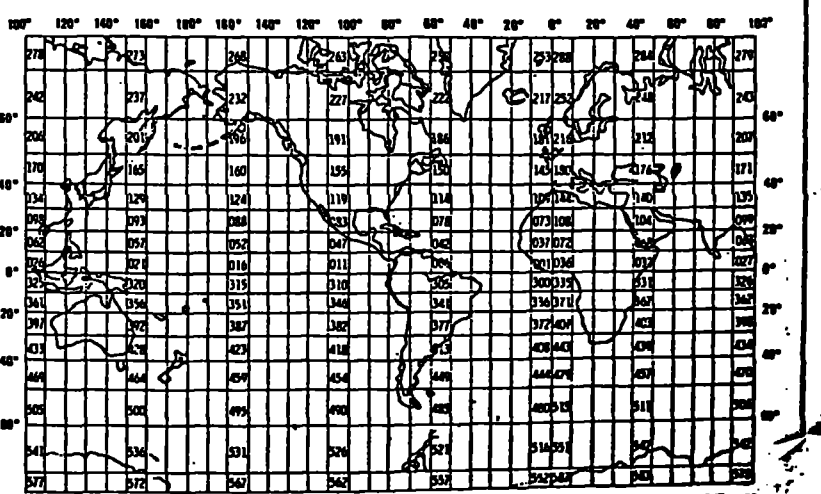
7. DATES

PLATFORM	OPERATOR	FROM: MO/DAY/YR		TO: MO/DAY/YR	
		SHIP	USA	USA	08/06/80

8. ARE THERE ANY OTHER REASONS WHY THESE DATA SHOULD NOT BE RELEASED?
YEAR MONTH NATIONAL

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

9. ARE THESE DATA INCLUDED IN WORLD DATA CENTERS FOR INTERNATIONAL COORDINATION?
PART (SPECIFY BELOW)
10. ARE THERE ANY OTHER REASONS CONCERNING THESE DATA THAT SHOULD BE DISCUSSED WITH TELEPHONE OR ADDRESS IF OTHER



(907) 479-7836

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 (✓)	
INTEROCEAN CASSETTE CTD		AUG. 79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

FDEF OT, IBM, NLAB, NSER, EBCDIC, F120, CI600.
PROC DUMP OT 15R.

***** 3K ADDITIONAL CORE NEEDED *****

FUNCTION REQUESTED: DUMP OT 15 RECORDS.
FILE CODE OT FILE NUMBER 1

FILE CODE	OT	FILE NUMBER	1
CI	1	R	1
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	2
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	3
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	4
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
		R	5
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101
CI	2	R	6
		CC	21
		CC	41
		CC	61
		CC	81
		CC	101

022009IMS1 1THE U
NIVERSITY OF ALASKA
IS RESPONSIBLE FOR T
HIS DATA WHICH WAS C
OLLECTED 1

022009IMS1 1ABOAR
D THE R/V REDOUBT CR
UISE RT9 BETWEEN 06/
28/80 - 07/02/80 2

022009IMS1 1BY DR
BURRELL OF THE INST
ITUTE OF MARINE SCIE
NCE. 3

022009IMS1 1THERE
WERE A TOTAL OF 38
STATIONS IN THE BOCA
DE QUADRA AREA. 4

022009IMS1 1STATI
ON NUMBERS ARE 01-3
8. STATIONS 13, 14, 15
HAVE STD DATA TO ON
LY 50 METERS. 5

022009IMS1 1FIELD
CORRECTION FOR THIS
CRUISE WAS TAKEN FR
OM REDOUBT CRUISE RT
9. 6

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

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
'5' 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

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907)479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input type="checkbox"/> ASCII</td> <td><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table> <p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table> <p>7. PARITY</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table> <p>8. DENSITY</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td></td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<input checked="" type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input checked="" type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 3/4 INCH</td> </tr> <tr> <td><input checked="" type="checkbox"/> .5 inch - 0.6 inch</td> </tr> </table> <p>10. END OF FILE MARK</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> octal 23</td> </tr> </table> <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="margin-left: 20px;">022 009IMS REDOUBT CRUISE RT09 06/28/80 - 07/02/80 Dr. Burrell Stations: 01-38. 9trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p> <p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p>	<input type="checkbox"/> 3/4 INCH	<input checked="" type="checkbox"/> .5 inch - 0.6 inch	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> octal 23
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY																							
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC																							
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<input type="checkbox"/> OCTAL 17																								
<input checked="" type="checkbox"/> octal 23																								

DATA DOCUMENTATION FORM

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

W1340

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 remaining pertinent information at that time. This may be most easily accomplished by reports, publications, or manuscripts which are readily available describing the data, and format specifics. Readable, handwritten submissions are acceptable. Data shipments should be sent to the above address.

Resubmission

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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 RT09	
4. PLATFORM NAME(S) R/V REDOUBT	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) USA USA	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 06/28/80 07/02/80
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. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Marcia Boyette (907) 479-9072 (907) 479-7836			

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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		AUG.79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

PROC REQ IN COPY IN TO OT RE. PLS OT. DUMP OT 15R.

APPROX 10K ADDITIONAL CORE RECORDS

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.
FILE IN PERIOD

FILE CODE IN FILE 1 CONTAINED 1893 RECORDS.

FILE OT PERIOD

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS.
FILE CODE OT FILE NUMBER 1

CC	1	360362362360	360367311324	342361100100	100100361343	310305100311
CC	21	325342343311	343344343305	100326304100	324301331311	325305100342
CC	41	303311305325	303305100311	342100331305	342327326325	342311302323
CC	61	305100306326	331100343510	311342100304	301343301100	346310311303
CC	81	310100346301	342100303326	323323305303	343305304100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100361
CC	2	360362362360	360367311324	342361100100	100100361301	302326301331
CC	21	325100343310	325100331141	345100331305	324326344302	343100302305
CC	41	343343301344	325100340364	141343300141	370360100343	326100360365
CC	61	141360306141	370360100302	350100304331	113100302344	331331305323
CC	81	323100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100362
CC	3	360362362360	360367311324	342361100100	100100361326	306100343310
CC	21	305100311325	342343311343	344343305100	326305100324	301331311325
CC	41	305100342303	311305325303	305113100100	100100100100	100100100100
CC	61	100100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100363
CC	4	360362362360	360367311324	342361100100	100100361343	310305331305
CC	21	100246305331	305100301100	243326343301	323100326306	100363366100
CC	41	342343301344	311326325342	103311325100	343310305100	302326303301
CC	61	100304305100	330344301304	331301100301	331305301113	100100100100
CC	81	100100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100364
CC	5	360362362360	360367311324	342361100100	100100361343	310305100342
CC	21	343301343311	325325100325	344324302305	331342100301	331305100100
CC	41	361140361367	153351371140	363366113100	3253261003042	343304100304
CC	61	301343301100	306326331100	342343301343	311326325100	361370113100

022007IMS1 I THE I
NSTITUTE OF MARINE S
CIENCE IS RESPONSIBL
E FOR THIS DATA WHIC
H WAS COLLECTED. 1

022007IMS1 IABOAR
D THE R/V REDOUBT BE
TWEEN 04/30/80 TO 05
/06/80 BY DR. BURREL
L 2

022007IMS1 I OF TH
E INSTITUTE OF MARIN
E SCIENCE. 3

022007IMS1 I THERE
WEPE A TOTAL OF 36
STATIONS IN THE BOCA
DE CUADRA AREA. 4

022007IMS1 I THE S
TATION NUMBERS ARE
1-17, 19-36. NO STD D
ATA FOR STATION 18. 5

0519T 2 01/31/81

UTL2

REPORT 771101

PAGE 2

CC	81	100100100100	100100100100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100365
CC	6	360362362360	360367311324	342361100100	100100361306	311305323304
CC	21	100303326331	331305303343	211326325100	306326331100	343310311342
CC	41	100305331344	311342305100	346301342100	343301322305	325100306331
CC	61	32324100331	141345100331	303304326344	302341100303	331344311342
CC	81	305100331343	360367113100	100100100100	100100100100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100366
CC	7	360362362360	360367311324	342361100100	100100361306	311305323304
CC	21	100303326331	331305303343	311326325100	306326331100	343310305100
CC	41	342343304100	304301343301	100346301342	100304305331	311345305304
CC	61	100302350100	303326324327	301331311325	307100342311	325307323305
CC	81	100302326343	343323305100	342301324327	323305342100	100100100100
CC	101	100100100100	100100100100	100100100100	100100100100	100100100367
CC	8	360362362360	360367311324	342361100100	100100361343	326100331305
CC	21	303326331304	305304100345	301323344305	342100306331	326324100343
CC	41	310305100342	343304100342	305125342324	131342113100	100343310305
CC	61	100306311305	323304100303	326331331305	303343311326	325100311342
CC	81	100302301342	305304100326	1003041346	100100100100	100100100100

022007IMS1 I FIELD
CORRECTION FOR THIS
CRUISE WAS TAKEN FR
OM R/V REDOUBT CRUIS
E RT07. 6

022007IMS1 I FIELD
CORRECTION FOR THE
STD DATA WAS DERIVED
BY COMPARING SINGLE
BOTTLE SAMPLES 7

022007IMS1 I RE
CORDED VALUES AT
THE STD SENSORS. THE
FIELD CORRECTIONS 8

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
FILE TYPE "22" AS	DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:				<ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths)

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater 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) 479-7836

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

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> OCTAL 23</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="padding-left: 20px;">Q22 007IMS REDOUBT CRUISE RI07 Dr. Burrell 04/30/80 - 05/06/80 Stations: 01-17,19-36. 9 trk/600BPI,EBCDIC,NO LABEL,ODD PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="padding-left: 20px;">5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="padding-left: 20px;">8 bit bytes</p>

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

ACCESSION
NUMBER

W 1971

DATA DOCUMENTATION FORM

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

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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	
		RT07	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V REDOUBT	SHIP	USA USA	FROM: MO/DAY/YR TO: MO/DAY/YR 04/30/80 05/06/80
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. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Marcia Boyette (907) 479-9072 (907) 479-7836			

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					INST. MEAS. IS NOT CALI- BRATE (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD	Aug. 1979		NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater 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) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 9970.

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____ </p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____ </p>	<p>10. END OF FILE MARK</p> <p> <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> <u>OCTAL 23</u> </p>
<p>7. PARITY</p> <p> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN </p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;"> 022 006IMS REDOUBT CRUISE RT06 Dr. Burrell 04/04/80 - 04/11/80 Stations: 01-37 9 trk, 600BPI, EBCDIC, NO LABEL, ODD PARITY </p>
<p>8. DENSITY</p> <p> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 600 BPI <input type="checkbox"/> _____ </p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">5-120 bytes/block</p>
<p>13. LENGTH OF BYTES IN BITS</p>	

FOFF IN.GFRC.ASCTI.
 FDFE OT.IBM.NI AN.VSER.FHCNIC.F120.C1600.
 FOPT IN.RFCCT.

PRGC RFR IN. COPY IN TO OT IF. REV OT. DUMP OT.15R.

***** 3K ADDITIONAL CORE NEEDED *****

FUNCTION REQUESTED: COPY IN TO OT. 1 FILE,
 FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 2059 RECORDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT. 1 FILE

FUNCTION REQUESTED: DUMP OT. 15 RECORDS
 FILE CODE OT FILE NUMBER

CT	1	1	361362362360	360366311324	342361100100	100100361343	310305100344	022006IMS1	1THE U
CC		21	325311345305	331342311343	350100326306	100301323301	342322301100		NIVERSITY OF ALASKA
CC		41	311342100331	305342327326	325342311302	323305100306	326331100343		IS RESPONSIBLE FOR T
CC		61	310311342100	304301343301	100346310311	303310100346	301342100303		HIS DATA WHICH WAS C
CC		81	326323323305	303343305304	100100100100	100100100100	100100100100		OLLECTED
CC		101	100100100100	100100100100	100100100100	100100100100	100100100361		1
CC		21	361362362360	360356311324	342361100100	100100361301	302326301331	022006IMS1	1LABOR
CC		41	304100343310	305100331141	345100331305	304326344302	343100303331		D THE R/V REDOUBT CR
CC		61	344311342305	100331343366	100302305343	346305305325	100360364141		UISE RT6 BETWEEN 04/
CC		81	321364141370	360100140100	360364141361	361141370360	100100100100		04/80 - 04/11/80
CC		101	100100100100	100100100100	100100100100	100100100100	100100100100		2
CC		21	360362362360	360366311324	342361100100	100100361302	350100304331	022006IMS1	1BY DR
CC		41	113302344331	331305123323	100326306100	343310305100	311325342343		BURRELL OF THE INST
CC		61	311343344343	305100326306	100324301331	311325305100	342303311305		ITUTE OF MARINE SCIE
CC		81	324303305113	100100100100	100100100100	100100100100	100100100100		NCE.
CC		101	100100100100	100100100100	100100100100	100100100100	100100100100		3
CC		21	360362362360	360366311324	342361100100	100100361343	310305331305	022006IMS1	1THERE
CC		41	100346305331	305100301100	343326343301	323100326306	100363367100		WERE A TOTAL OF 37
CC		61	342343301343	311326325342	100311325100	343310305100	302326303301		STATIONS IN THE BOCA
CC		81	100304305100	330344301304	331301100301	331305301113	100100100100		DE QUADRA AREA.
CC		101	100100100100	100100100100	100100100100	100100100100	100100100100		4
CC		21	560362362360	360366311324	342361100100	100100361343	310305100342	022006IMS1	1THE S
CC		41	343301343311	326325100325	344324302305	331342100301	331305100100		TATION NUMBERS ARE
CC			360361140363	367113100100	100100100100	100100100100	100100100100		01-37.

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

DATA DOCUMENTATION FORM

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

W1642

This form should accompany all data submissions to NODC. Section A, must be completed when the data are submitted. It is highly desirable for remaining pertinent information at that time. This may be most easily accomplished in reports, publications, or manuscripts which are readily available descriptions, and format specifics. Readable, handwritten submissions are acceptable. Data shipments should be sent to the above address.

Resubmission

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 MANAGEMENT
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF ALASKA, O'NEILL RES. BLDG.
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

RT06

4. PLATFORM NAME(S)

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)

7. DATES

R/V REDOUBT

SHIP

USA

USA

FROM: MO/DAY/YR		TO: MO/DAY/YR	
04	04	04	11
80	80	80	80

8. ARE DATA PROPRIETARY?

NO YES

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

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

GENERAL AREA

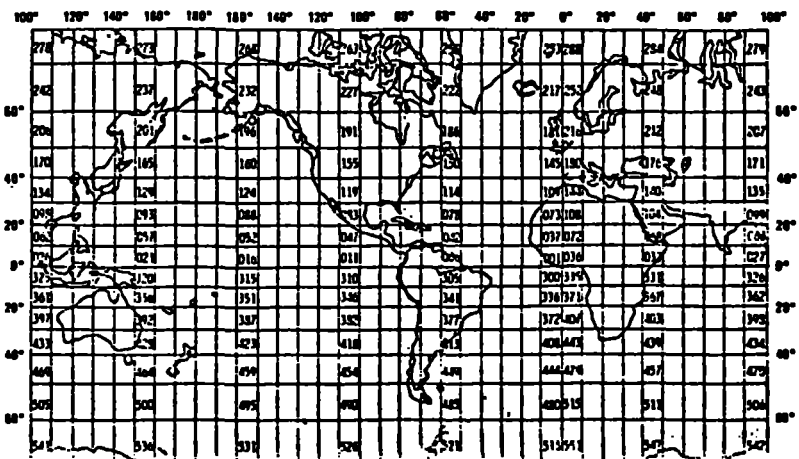
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

NO YES PART (SPECIFY BELOW)

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

Marcia Boyette
(907) 479-9072 (907) 479-7836



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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		AUG. 79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

ACTION COMPLETED: COPIED IN TO CT 1 FILE.

ACTION REQUESTED: DUMP CT
FILE CODE A CT FILE NUMBER 1 15 RECORDS.

CCCCC	1	360362362360	360365311324	342361100100	100100361343	310305100344	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361343	310305100344	NIVES
CCCCC	41	360362362360	360365311324	342361100100	100100361343	310305100344	IS REF
CCCCC	61	360362362360	360365311324	342361100100	100100361343	310305100344	HIS
CCCCC	81	360362362360	360365311324	342361100100	100100361343	310305100344	COLLEC
CCCCC	101	360362362360	360365311324	342361100100	100100361343	310305100344	
CCCCC	2	360362362360	360365311324	342361100100	100100361301	302326301331	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361301	302326301331	C THE
CCCCC	41	360362362360	360365311324	342361100100	100100361301	302326301331	UISE
CCCCC	61	360362362360	360365311324	342361100100	100100361301	302326301331	/24/8
CCCCC	81	360362362360	360365311324	342361100100	100100361301	302326301331	
CCCCC	101	360362362360	360365311324	342361100100	100100361301	302326301331	
CCCCC	3	360362362360	360365311324	342361100100	100100361302	350100304331	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361302	350100304331	BUR
CCCCC	41	360362362360	360365311324	342361100100	100100361302	350100304331	TITUDE
CCCCC	61	360362362360	360365311324	342361100100	100100361302	350100304331	ENCE.
CCCCC	81	360362362360	360365311324	342361100100	100100361302	350100304331	
CCCCC	101	360362362360	360365311324	342361100100	100100361302	350100304331	
CCCCC	4	360362362360	360365311324	342361100100	100100361343	310305331305	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361343	310305331305	WERE
CCCCC	41	360362362360	360365311324	342361100100	100100361343	310305331305	STATION
CCCCC	61	360362362360	360365311324	342361100100	100100361343	310305331305	DE
CCCCC	81	360362362360	360365311324	342361100100	100100361343	310305331305	
CCCCC	101	360362362360	360365311324	342361100100	100100361343	310305331305	
CCCCC	5	360362362360	360365311324	342361100100	100100361343	310305100342	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361343	310305100342	TATION
CCCCC	41	360362362360	360365311324	342361100100	100100361343	310305100342	01-16

2 02/05/81

CCCCC	61	304301343301	100306326331	100342343301	343311326325	100361367113	DATA FOR
CCCCC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
CCCCC	101	100100100100	100100100100	100100100100	100100100100	100100100365	
CCCCC	6	360362362360	360365311324	342361100100	100100361342	343301343311	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361342	343301343311	ONS
CCCCC	41	360362362360	360365311324	342361100100	100100361342	343301343311	ATA
CCCCC	61	360362362360	360365311324	342361100100	100100361342	343301343311	S.
CCCCC	81	360362362360	360365311324	342361100100	100100361342	343301343311	
CCCCC	101	360362362360	360365311324	342361100100	100100361342	343301343311	
CCCCC	7	360362362360	360365311324	342361100100	100100361306	311305323304	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361306	311305323304	CORRECT
CCCCC	41	360362362360	360365311324	342361100100	100100361306	311305323304	CRUISE
CCCCC	61	360362362360	360365311324	342361100100	100100361306	311305323304	OM RE
CCCCC	81	360362362360	360365311324	342361100100	100100361306	311305323304	05.
CCCCC	101	360362362360	360365311324	342361100100	100100361306	311305323304	
CCCCC	8	360362362360	360365311324	342361100100	100100361306	311305323304	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361306	311305323304	CORRECT
CCCCC	41	360362362360	360365311324	342361100100	100100361306	311305323304	STD
CCCCC	61	360362362360	360365311324	342361100100	100100361306	311305323304	BY
CCCCC	81	360362362360	360365311324	342361100100	100100361306	311305323304	BOTTLE
CCCCC	101	360362362360	360365311324	342361100100	100100361306	311305323304	
CCCCC	9	360362362360	360365311324	342361100100	100100361343	326100331305	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361343	326100331305	CORDED
CCCCC	41	360362362360	360365311324	342361100100	100100361343	326100331305	HE
CCCCC	61	360362362360	360365311324	342361100100	100100361343	326100331305	FIELD
CCCCC	81	360362362360	360365311324	342361100100	100100361343	326100331305	BASED
CCCCC	101	360362362360	360365311324	342361100100	100100361343	326100331305	
CCCCC	10	360362362360	360365311324	342361100100	100100361342	301324327323	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361342	301324327323	ES
CCCCC	41	360362362360	360365311324	342361100100	100100361342	301324327323	5
CCCCC	61	360362362360	360365311324	342361100100	100100361342	301324327323	STA
CCCCC	81	360362362360	360365311324	342361100100	100100361342	301324327323	D
CCCCC	101	360362362360	360365311324	342361100100	100100361342	301324327323	
CCCCC	11	360362362360	360365311324	342361100100	100100361100	100100100100	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	41	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	61	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	81	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	101	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	12	360362362360	360365311324	342361100100	100100361100	100100100100	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361100	100100100100	EMPER
CCCCC	41	360362362360	360365311324	342361100100	100100361100	100100100100	ATURE
CCCCC	61	360362362360	360365311324	342361100100	100100361100	100100100100	EN-
CCCCC	81	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	101	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	13	360362362360	360365311324	342361100100	100100361100	100100100100	02200IMS
CCCCC	21	360362362360	360365311324	342361100100	100100361100	100100100100	SALINITY
CCCCC	41	360362362360	360365311324	342361100100	100100361100	100100100100	EN-
CCCCC	61	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	81	360362362360	360365311324	342361100100	100100361100	100100100100	
CCCCC	101	360362362360	360365311324	342361100100	100100361100	100100100100	

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater 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) 479-7836
ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> <u>OCTAL 23</u></p>
<p>7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 005IMS REDOUBT CRUISE RT05 Dr. Burrell 02/24/80 - 02/29/80 Stations: 01-16,18-35. 9 trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES <u>5-120 bytes/block</u></p> <p>13. LENGTH OF BYTES IN BITS <u>8 bit bytes</u></p>

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

ACCESSION
NUMBER

W2050

DATA DOCUMENTATION FORM

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

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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	
		RT05	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V REDOUBT	SHIP	USA USA	FROM: MO/DAY/YR TO: MO/DAY/YR 02/24/80 02/29/80
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. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
Marcia Boyette (907) 479-9072 (907) 479-7836			

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 CALI- BRATE (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		Aug. 79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

FILE CODE	ST	FILE NUMBER	1	15 RECORDS.
1	00000	00000	00000	00000
21	00000	00000	00000	00000
41	00000	00000	00000	00000
61	00000	00000	00000	00000
81	00000	00000	00000	00000
101	00000	00000	00000	00000

022004IMS1
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COLLECTED

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022004IMS1
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01-30.

32/04/81

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REPORT 771101

PAGE

2

CC	101*	100100100100	100100100100	100100100100	100100100100	100100100365	
6	21	360362362360	360364311324	342361100100	100100361306	311305323304	022004IMS1
41	41	1003003326331	3313305303343	311326325100	306326331100	343310311342	CORRECTION
61	61	1003003331344	311342305100	346301342100	343301322305	325100306331	CRUISE WAS
81	81	3603624100331	3053304326344	302343100303	331344311342	305100331343	ON REDOUBT
101	101	100100100100	100100100100	100100100100	100100100100	100100100100	04.
7	21	360362362360	360364311324	342361100100	100100361306	311305323304	022004IMS1
41	41	1003003326331	3313305303343	311326325100	306326331100	343310305100	CORRECTION
61	61	10030033304100	311342305100	100346301342	100304305331	311345305304	STD DATA WA
81	81	10030033305100	3303344301304	301331311325	307100342311	325307323305	BY COMPAR:
101	101	100100100100	100100100100	342361100100	3233053422100	100100100100	BOTTLE SAM
8	21	360362362360	360364311324	342361100100	100100361343	326100331305	022004IMS1
41	41	1003003331304	3303304100343	301326334305	342100306331	326324100343	CORDED VALL
61	61	10030033100342	3433304100342	305325342326	331342113100	100343310305	HE STD SENS
81	81	1003003311305	3323304100303	326331331305	303344311326	325100311342	FIELD CORR
101	101	100100100100	100100100100	325100366100	100100100100	100100100100	BASED ON 6
9	21	360362362360	360364311324	342361100100	100100361342	301324327323	022004IMS1
41	41	1003003331304	3313326324100	301100343326	343301323100	326306100363	ES FROM A T
61	61	1003003342333	3313433311326	325342113100	343310305100	306311305323	0 STATIONS.
81	81	100300333325	331331305303	343311326325	100311342100	100100100100	D CORRECTIO:
101	101	100100100100	100100100100	100100100100	100100100100	100100100371	
10	21	360362362360	360364311324	342361100100	100100361100	100100100100	022004IMS1
41	41	10030033305100	100100100100	100100100100	100100100100	100100100100	
61	61	10030033305100	100100100100	100100100100	100100100100	100100361360	
101	101	100100100100	100100100100	100100100100	100100100100	100100361360	
11	21	360362362360	360364311324	342361100100	100100361100	100100100100	022004IMS1
41	41	1003003324327305	3313013433344	331305100324	305301325115	325301325342	EMPERATURE
61	61	1003003325140342	3433304135100	100311342100	100360113360	363365365366	EN-STD) IS
81	81	10030033305100	100100100100	100100100100	100100100100	100100100100	
101	101	100100100100	100100100100	100100100100	100100100100	100100361361	
12	21	360362362360	360364311324	342361100100	100100361100	100100100100	022004IMS1
41	41	10030033305100	100100100100	100100100100	100100100100	100100100100	
61	61	1003003342333	3433304135100	3433305100324	305301325115	325301325342	SALINITY
81	81	10030033140342	100100100100	100311342100	140360113360	360361371371	EN-STD) IS
101	101	100100100100	100100100100	100100100100	100100100100	100100361362	
13	21	360362362360	360364311324	342361100100	100100361365	365100363360	022004IMS2
41	41	10030033305100	100100100100	100100100100	1001003611325	343305331100	CN131 700W:
61	61	1003003342333	3433304135100	362361365361	366100361361	100361300100	345791215:
81	81	10030033305100	100100100100	100100100100	100100360362360	100360360360	C
101	101	100100100100	100100100100	100100100100	100100360362360	100100360360	OCCEAN CAS
14	21	360362362360	360364311324	342361100100	100100361100	100100100100	EQ 15
41	41	10030033305100	100100100100	100100100100	100100100100	100100100100	
61	61	1003003342333	3433304135100	362361365361	366100361361	100361300100	
81	81	10030033305100	100100100100	100100100100	100100360362360	100360360360	
101	101	100100100100	100100100100	100100100100	100100360362360	100100360360	

022004IMS1
CORRECTION
CRUISE WAS
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04.

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022004IMS3

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

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

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input type="checkbox"/> ASCII</td> <td><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table> <p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table> <p>7. PARITY</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table> <p>8. DENSITY</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<input checked="" type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input checked="" type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 3/4 INCH</td> </tr> <tr> <td><input checked="" type="checkbox"/> .5 - .6 inch</td> </tr> </table> <p>10. END OF FILE MARK</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> Octal 23</td> </tr> </table> <p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 004IMS REDOUBT CRUISE RT04 Dr. Burrell 12/15/79 - 12/19/79 Stations: 01-30. 9 trk, 600BPI, EBCDIC, NO LABEL, ODD PARITY</p> <p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p>	<input type="checkbox"/> 3/4 INCH	<input checked="" type="checkbox"/> .5 - .6 inch	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> Octal 23
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY																							
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC																							
<input type="checkbox"/> _____																								
<input type="checkbox"/> SEVEN																								
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<input checked="" type="checkbox"/> .5 - .6 inch																								
<input type="checkbox"/> OCTAL 17																								
<input checked="" type="checkbox"/> Octal 23																								

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

W 2052

DATA DOCUMENTATION FORM

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

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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			
				RT04			
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)		6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
R/V REDOUBT		SHIP		USA USA		FROM: MO/DAY/YR TO: MO/DAY/YR 12/15/79 12/19/79	
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. GENERAL AREA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)							
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Marcia Boyette (907) 479-9072 (907) 479-7836							

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					INSTI MEN IS NO CAL BRAT ION
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		AUG. 79	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

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 AS: "1" For Text Record (in 10th Byte position)

"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 Mater 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) 479-7836
ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> OCTAL 23</p>
<p>7. PARITY <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 003IMS REDOUBT CRUISE RT03 Dr. Burrell 11/15/79 - 11/19/79 Stations: 01-17, 19-25. 9 trk/600BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input checked="" type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p>

FDEF OT,IBM,HLAU,NSER,EBCDIC,F120,CI600.
PROC DUMP OT 15R.

***** 3K ADDITIONAL CORE NEEDED *****

FUNCTION REQUESTED: DUMP OT 15 RECORDS.
FILE CODE OT FILE NUMBER 1

CI	FILE CODE	OT	FILE NUMBER	1	15 RECORDS.			
CI 1	R		1	360362362360	360363311324	342361100100	100100361343	310305100344
	CC		21	325311345305	331342311343	350100326306	100301323301	342322301100
	CC		41	311342100331	305342327326	325342311302	323305100306	326331100343
	CC		61	310311342100	304301343301	100346310311	303310100346	301342100303
	CC		81	326323323305	303343305304	100100100100	100100100100	100100100100
	CC		101	100100100100	100100100100	100100100100	100100100100	100100100361
	R		2	360362362360	360363311324	342361100100	100100361301	302326301331
	CC		21	304100343310	305100331141	345100331305	304326344302	343100303331
	CC		41	344311342305	100331343360	363100302305	343346305305	325100361361
	CC		61	141361365141	367371100140	100361361141	361371141367	371100100100
	CC		81	100100100100	100100100100	100100100100	100100100100	100100100100
	CC		101	100100100100	100100100100	100100100100	100100100100	100100100362
	R		3	360362362360	360363311324	342361100100	100100361302	350100304331
	CC		21	113100302344	331331305323	323100326306	100343310305	100311325342
	CC		41	343311343344	343305100326	306100324301	331311325305	100342303311
CC		61	305325303305	113100100100	100100100100	100100100100	100100100100	
CC		81	100100100100	100100100100	100100100100	100100100100	100100100100	
CC		101	100100100100	100100100100	100100100100	100100100100	100100100363	
R		4	360362362360	360363311324	342361100100	100100361343	310305331305	
CC		21	100346305331	305100301100	343326343301	325100326306	100362365100	
CC		41	342343301343	311326325342	100311325100	343310305100	302326303301	
CC		61	100304305100	330344301304	331301100301	331305301113	100100100100	
CC		81	100100100100	100100100100	100100100100	100100100100	100100100100	
CC		101	100100100100	100100100100	100100100100	100100100100	100100100364	
R		5	360362362360	360363311324	342361100100	100100361343	310305100342	
CC		21	343301343311	326325100325	344324302305	331342100301	331305100100	
CC		41	360361140361	367153361371	140362365113	343310305331	305100311342	
CC		61	100325326100	342343304100	304301343301	100306326331	100342343301	
CC		81	113361370113	100100100100	100100100100	100100100100	100100100100	
CC		101	100100100100	100100100100	100100100100	100100100100	100100100365	
CI 2	R		6	360362362360	360363311324	342361100100	100100361342	343301343311
	CC		21	326325100361	366100304301	34330100343	326100326325	323350100361
	CC		41	361367100324	305343305331	342113100342	343301343311	326325100361
	CC		61	367100304301	343301100343	326100326325	323350100361	361365100324
	CC		81	305343305331	342113100100	100100100100	100100100100	100100100100
	CC		101	100100100100	100100100100	100100100100	100100100100	100100100366

022003IMS1 1THE U
NIVERSITY OF ALASKA
IS RESPONSIBLE FOR T
HIS DATA WHICH WAS C
OLLECTED 1

022003IMS1 LABOAR
D THE R/V REDOUBT CR
UISE RT03 BETWEEN 11
/15/79 - 11/19/79 2

022003IMS1 1BY DR
. BURRELL OF THE INS
TITUTE OF MARINE SCI
ENCE. 3

022003IMS1 1THERE
WERE A TOTAL OF 25
STATIONS IN THE BOCA
DE GUADRA AREA. 4

022003IMS1 1THE S
TATION NUMBERS ARE
01-17,19-25.THERE IS
NO STD DATA FOR STA
.18. 5

022003IMS1 1STATI
ON 16 DATA TO ONLY 1
17 METERS. STATION 1
7 DATA TO ONLY 115 M
ETERS. 6

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

DATA DOCUMENTATION FORM

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
NO. 41-R2651

W2175

Resubmission

This form should accompany all data submissions to NODC. Section must be completed when the data are submitted. It is highly desirable to include remaining pertinent information at that time. This may be most easily done in reports, publications, or manuscripts which are readily available and format specific. Readable, handwritten submissions are preferred. 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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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 RT03										
4. PLATFORM NAME(S) R/V REDOUBT		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PLATFORM</th> <th style="width: 50%;">OPERATOR</th> </tr> <tr> <td style="text-align: center;">USA</td> <td style="text-align: center;">USA</td> </tr> </table>		PLATFORM	OPERATOR	USA	USA	7. DATES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">FROM: MO/DAY/YR</th> <th style="width: 50%;">TO: MO/DAY/YR</th> </tr> <tr> <td style="text-align: center;">11/15/79</td> <td style="text-align: center;">11/19/79</td> </tr> </table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	11/15/79	11/19/79
PLATFORM	OPERATOR												
USA	USA												
FROM: MO/DAY/YR	TO: MO/DAY/YR												
11/15/79	11/19/79												
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. GENERAL AREA										
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)													
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Marcia Boyette (907) 479-9072 (907) 479-7836													

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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		Aug. 1979	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

FUNCTION REQUESTED: COPY IN TO OT 1 FILE.
FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED

1252 REGRDS

FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT
FILE CODE OT FILE NUMBER 1 15 RECORDS.

CT	1	R	1	360362362360	360362311324	342361100100	100100362343	310305100311
		CC	21	325342343311	343344343305	100326306100	324301331311	325305100342
		CC	41	303311305325	303305100311	342100331305	342327326325	342311302323
		CC	61	305100306326	331100343310	311342100304	3013433301100	346310311303
		CC	81	310100346301	342100303326	323323305303	3433305304100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100361
		R	2	360362362360	360362311324	342361100100	100100362301	302326301331
		CC	21	304100343310	305100331141	345100331305	304326344302	343100302305
		CC	41	343346305305	325100361360	141360366141	367371100343	326100361360
		CC	61	141361360141	367371100302	350100304331	113100302344	331331305323
		CC	81	323100100100	100100100100	100100100100	100100100100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100362
		R	3	360362362360	360362311324	342361100100	100100362326	306100343310
		CC	21	305100311325	342343311343	344343305100	326306100324	301331311325
		CC	41	305100342303	311335325303	305113100100	100100100100	100100100100
		CC	61	100100100100	100100100100	100100100100	100100100100	100100100100
		CC	101*	100100100100	100100100100	100100100100	100100100100	100100100363
		R	4	360362362360	360362311324	342361100100	100100362343	310305331305
		CC	21	100346305331	305100301100	343326343301	323100326306	100362365100
		CC	41	342343301343	311326325342	100311325100	343310305100	302326303301
		CC	61	100304305100	330344301304	331301100301	331305301113	100100100100
		CC	81	100100100100	100100100100	100100100100	100100100100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100364
		R	5	360362362360	360362311324	342361100100	100100362343	310305100342
		CC	21	343301343311	326325100325	344324302305	331342100301	331305100301
		CC	41	331305100140	100362153363	153361361140	363363113100	100100100100
		CC	61	100100100100	100100100100	100100100100	100100100100	100100100100

022002IMS1 2THE I
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CIENCE IS RESPONSIBL
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H WAS COLLECTED 1

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D THE R/V REDOUBT BE
TWEEN 10/06/79 TO 10
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022002IMS1 2OF TH
E INSTITUTE OF MARIN
E SCIENCE. 3

022002IMS1 2THERE
WERE A TOTAL OF 25
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DE QUADRA AREA. 4

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REPORT 771101

PAGE

2

CT	2	R	101*	100100100100	100100100100	100100100100	100100100100	100100100365
		CC	6	360362362360	360362311324	342361100100	100100362306	311305323304
		CC	21	100303326331	331305303343	311326325100	306326331100	343310311342
		CC	41	100303331344	311342305100	346301342100	343301322305	325100306331
		CC	61	326324100331	305304326344	302343100303	331344311342	305100331343
		CC	81	360362113100	100100100100	100100100100	100100100100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100366
		R	7	360362362360	360362311324	342361100100	100100362306	311305323304
		CC	21	100303326331	331305303343	311326325100	306326331100	343310305100
		CC	41	342343304100	304301343301	100346301342	100304305331	311345305304
		CC	61	100302350100	303326324327	301331311325	307100342311	325307323305
		CC	81	100302326343	343323305100	342301324327	323305342100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100367
		R	8	360362362360	360362311324	342361100100	100100362343	326100331305
		CC	21	303326531304	305304100345	301323344305	342100306331	326324100343
		CC	41	310305100342	343304100342	305325342326	331342113100	100343310305
		CC	61	100306311305	323304100303	326331331305	303343311326	325100311342
		CC	81	100302301342	305304100326	325100364100	100100100100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100370
		R	9	360362362360	360362311324	342361100100	100100362342	301324327323
		CC	21	305342100305	331326324100	301100343326	343301323100	326306100362
		CC	41	345100342343	301343311326	301342113100	343310305100	306311305323
		CC	61	304100303326	331331305303	343311326325	100311342100	100100100100
		CC	81	100100100100	100100100100	100100100100	100100100100	100100100100
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100371
		R	10	360362362360	360362311324	342361100100	100100362100	100100100100
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100

022002IMS1 2FIELD
CORRECTION FOR THIS
CRUISE WAS TAKEN FR
OM REDOUBT CRUISE RT
02. 6

022002IMS1 2FIELD
CORRECTION FOR THE
STD DATA WAS DERIVED
BY COMPARING SINGLE
BOTTLE SAMPLES 7

022002IMS1 2TO RE
CORDED VALUES FROM I
HE STD SENSORS. THE
FIELD CORRECTION IS
BASED ON 4 8

022002IMS1 2SAMPL
ES FROM A TOTAL OF 2
5 STATIONS. THE FIEL
D CORRECTION IS 9

022002IMS1 10

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH <small>NUMBER UNITS</small>		17. ATTRIBUTES	18. USE AND MEANING
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:					
<ol style="list-style-type: none"> 1. Col.45-49 Depth in meters (I5 to 1/10ths) 2. Col.50-53 Salinity in ‰ (I4 to 1/100ths) 					

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

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	<input type="checkbox"/> LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907)479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input type="checkbox"/> ASCII</td> <td><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .5 inch - 0.6 inch</p>		
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY								
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC								
<input type="checkbox"/> _____									
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<p>10. END OF FILE MARK</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> octal 23</td> </tr> </table>	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> octal 23			
<input type="checkbox"/> SEVEN									
<input checked="" type="checkbox"/> NINE									
<input type="checkbox"/> _____									
<input type="checkbox"/> OCTAL 17									
<input checked="" type="checkbox"/> octal 23									
<p>7. PARITY</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table>	<input checked="" type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 RT2IMS REDOUBT CRUISE RT02 10/06/79 - 10/10/79 Dr. Burrell Stations: 2,3,11-33. 9trk, 1600BPI, EBCDIC, NO LABEL, ODD PARITY</p>						
<input checked="" type="checkbox"/> ODD									
<input type="checkbox"/> EVEN									
<p>8. DENSITY</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 900 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input checked="" type="checkbox"/> 900 BPI		<input type="checkbox"/> _____		<p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>
<input type="checkbox"/> 200 BPI	<input checked="" type="checkbox"/> 1600 BPI								
<input type="checkbox"/> 556 BPI									
<input checked="" type="checkbox"/> 900 BPI									
<input type="checkbox"/> _____									

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

W 2044

DATA DOCUMENTATION FORM

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. 4-531

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 MANAGEMENT INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA, O'NEILL RES. BLDG. 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		
			RT02		
4. PLATFORM NAME(S)		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES
R/V REDOUBT		SHIP	USA	USA	FROM: MO, DAY, YR TO: MO, DAY, YR
					10/06/79 10/10/79
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.		
			GENERAL AREA		
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)					
Marcia Boyette (907) 479-9072 (907) 479-7836					

DATA SET ROUTE SHEET

ACCESSION/TRACK # 8100478 / TR 6901-10

Step	Completion Date/Init.	Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #	10 TAPES (SEE TAPE SHEET)		10 IND.	600	120	16,081
QUADI/SCAN TAPE #	4/20/82 (8/12/82) (ALL)	W12590 D57732	1	600	120	16,081
DDF EVALUATION	8/19/82 (M)	(M)				
QUALITY REVIEW	8/19/82 (M)					
PRELIMINARY DATA SORT						
PRELIMINARY MULCHEK	8/18/82 (M)	D5773X	F022	TR6901		12,280
FIRST USER TAPE #	/					
WORK DISK FILE	8/12/82 (M)	D5773X	F022	TR6901		16,081
FINAL USER TAPE #	/					
FINAL MULCHEK	8/19/82 (M)	D5773X	F022	TR6901		12,280
EDITED DISK FILE	/					
DATA SET "FINALIZED"						

ACCESSION/TRACK NO.: 8100478 / TR 6901-10

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS	
ORIGINATOR	W2044 W2042 W2052 W2050 W2040 W1971	NL	120	600	FB		16,081	
DUPLICATE	W1848 W1982 W1956 W1674							
	W12590	NL	120	600	FB		16,081	
REFORMATTED		..						
FIRST USER								
FINAL USER								
DISK FILE	DSN					REMARKS	# RECORDS	
WORK DISK FILE	*	D5173* F022. TR 6901						12,280
EDITED DISK FILE								

*Asheville

A. Extra record type ones were
deleted (3801)

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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
INTEROCEAN CASSETTE CTD		Sept. 80	NRCC						
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

ION COMPLETED: COPIED IN TO CT 1 FILE.

ION REQUESTED: DUMP OF 15 RECORDS.

E-CODE	OT	FILE NUMBER	1	1	1	1	1	1	1
1	R	1	360362362360	361362311324	342361100100	100100361343	310305100344	022012IMS1	1
	CC	21	325311345305	331342311343	350100326306	100301323301	342322301100	UNIVERSITY OF AL	
	CC	41	311342100331	305342327326	325342311302	323305100306	326331100343	IS RESPONSIBLE	
	CC	61	310311342100	304301343301	100346310311	303310100346	301342100303	HIS DATA WHICH	
	CC	81	326323323305	303343305304	100100100100	100100100100	100100100100	COLLECTED	
	CC	101	100100100100	100100100100	100100100100	100100100100	100100100361		
	R	2	360362362360	361362311324	342361100100	100100361301	302326301331	022012IMS1	1
	CC	21	304100343310	305100331141	345100331305	304326344302	343100303331	D THE R/V REDOU	
	CC	41	344311342305	100331343361	362100302305	343346305305	325100361360	UISE RT12 BETW	
	CC	61	141360367141	370360100343	326100361360	141361363141	370360100302	/07/80 TO 10/13	
	CC	81	350100304331	113100302344	331331305323	323100100100	100100100100	Y DR. BURRELL	
	CC	101	100100100100	100100100100	100100100100	100100100100	100100100362		
	R	3	360362362360	361362311324	342361100100	100100361326	306100343310	022012IMS1	1
	CC	21	305100311325	342343311343	344343305100	326306100324	301331311325	E INSTITUTE OF	
	CC	41	305100342303	311305325303	305113100100	100100100100	100100100100	E SCIENCE.	
	CC	61	100100100100	100100100100	100100100100	100100100100	100100100100		
	CC	101	100100100100	100100100100	100100100100	100100100100	100100100363		
	R	4	360362362360	361362311324	342361100100	100100361343	310305331305	022012IMS1	1
	CC	21	100346305331	305100301100	345326343301	323100326306	100363365100	WERE A TOTAL O	
	CC	41	342343301343	311326325342	100311325100	343310305100	302326303301	STATIONS IN THE	
	CC	61	100304305100	330344301304	331301100301	331305301113	100100100100	DE QUADRA AREA	
	CC	81	100100100100	100100100100	100100100100	100100100100	100100100100		
	CC	101	100100100100	100100100100	100100100100	100100100100	100100100364		
	R	5	360362362360	361362311324	342361100100	100100361342	343301343311	022012IMS1	1
	CC	21	326325100325	344324302305	341342100301	331305100361	140365153361	ON NUMBERS ARE	
	CC	41	361153361364	153361367153	361371153362	362153362364	153362366140	1.14.17.19.22.2	
	CC	61	362371153363	361140363366	153363370140	364362153364	365153364367	29.31-36.38-42.	

2	02/06/81	UTL2	REPORT	771101	PAGE	2			
		CC	81	153364370153	365362153365	364153365366	113100100100	100100100100	.48.52.54.56.
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100365	
2		R	6	360362362360	361362311324	342361100100	100100361325	326100342343	022012IMS1
		CC	21	304100304301	343301100306	326331100342	343301343311	326325342100	D DATA FOR STAT
		CC	41	362365153364	371153100120	100365367113	100100100100	100100100100	25.49. & 57.
		CC	61	100100100100	100100100100	100100100100	100100100100	100100100100	
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100366	
		R	7	360362362360	361362311324	342361100100	100100361306	311305323304	022012IMS1
		CC	21	100303326331	331305303343	311326325100	306326331100	343310311342	CORRECTION FOR
		CC	41	100303331344	311342305100	346301342100	343301322305	325100306331	CRUISE WAS TAK
		CC	61	326324100331	305304326344	302343100303	331344311342	305100331343	OM REDOUBT CRUI
		CC	81	361362113100	100100100100	100100100100	100100100100	100100100100	12.
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100367	
		R	8	360362362360	361362311324	342361100100	100100361306	311305323304	022012IMS1
		CC	21	100303326331	331305303343	311326325100	306326331100	343310305100	CORRECTION FOR
		CC	41	342343304100	304301343301	100346301342	100304305331	311345305304	STD DATA WAS DE
		CC	61	100302350100	303326324327	301331311325	307100342311	325307323305	BY COMPARING
		CC	81	100302326343	343323305100	3423301324327	323305342100	100100100100	BOTTLE SAMPLES
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100370	
		R	9	360362362360	361362311324	342361100100	100100361343	326100331305	022012IMS1
		CC	21	303326331304	305304100345	301323344305	342100306331	326324100343	CORDED VALUES F
		CC	41	310305100342	343304100342	305325342326	331342113100	100343310305	HE STD SENSORS.
		CC	61	100306311305	323304100303	325331331305	303343311326	325100311342	FIELD CORRECTI
		CC	81	100302301342	305304100326	325100361360	100100100100	100100100100	BASED ON 10
		CC	101	100100100100	100100100100	100100100100	100100100100	100100100371	
		R	10	360362362360	361362311324	342361100100	100100361342	301324327323	022012IMS1
		CC	21	305342100306	331326324100	301100343326	343301323100	326306100363	ES FROM A TOTAL
		CC	41	365100342343	301343311326	325342113100	343310305100	306311305323	5 STATIONS. THE
		CC	61	304100303326	331331305303	343311326325	100311342100	100100100100	D CORRECTION IS
		CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
		CC	101	100100100100	100100100100	100100100100	100100100100	100100361360	
3		R	11	360362362360	361362311324	342361100100	100100361100	100100100100	022012IMS1
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100	1
		CC	101	100100100100	100100100100	100100100100	100100100100	100100361361	
		R	12	360362362360	361362311324	342361100100	100100361100	100100100100	022012IMS1
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100343	1
		CC	41	305324327305	331301343344	331305100324	305301325115	325301325342	TEMPERATURE MEAS
		CC	61	305325140342	343304135100	100311342100	100360113360	36536730363	EN-STD) IS 0.
		CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
		CC	101	100100100100	100100100100	100100100100	100100100100	100100361362	
		R	13	360362362360	361362311324	342361100100	100100361100	100100100100	022012IMS1
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100	
		CC	41	100100342301	323311325311	343350100324	305301325115	325301325342	SALINITY MEAS
		CC	61	305325140342	343304135100	100311342100	100360113363	371367366362	EN-STD) IS 0.
		CC	81	100100100100	100100100100	100100100100	100100100100	100100100100	
		CC	101	100100100100	100100100100	100100100100	100100100100	100100361363	
		R	14	360362362360	361362311324	342362100100	100100361365	365361370364	022012IMS2

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col. 45-49 Depth in meters (I5 to 1/10ths) 2. Col. 50-53 Salinity in 0/00 (I4 to 1/100ths) 					

C. DATA FORMAT

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

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 AS: "1" For Text Record (in 10th Byte position)

"2" for Master Record

"3" for Detail Record

GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Mater Record, followed by

0 to 99,999 Detail records

REPEATS

ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DATA MANAGER (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK 9970

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> <u>.5 - .6 inch</u></p>
<p>5. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> Octal 23</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">022 012IMS REDOUBT CRUISE RT12 Dr. Burrell 10/07/80 - 10/13/80</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>9 trk, 1600 BPI, EBCDIC, NO LABEL, ODD PARITY</p> <p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bit bytes</p>

Extrapolated and interpolated data are so marked (E and * respectively). An error report is produced noting any records that could not be interpreted. This information is summarized to give an overall indication of data quality.

Program - IOCOUT

One-meter averaged data and header information are combined to produce a finished printout:

- 1) All header information and corrected data in one meter intervals.
- 2) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 3) Pertinent comments are solicited from the responsible principal investigator and attached to the final printout.

A tape with one-meter averages for depth, temperature, salinity, sigma-t, and Delta-D/per station is generated for data storage and further analysis.

Program - NODCF

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

IMS STD/CTD DATA REDUCTION
(Interocean)
October 1979

Transcription

Interocean cassettes are transcribed to a 9-track magnetic tape.

Program - RDCASS

Data from the 9-track tape are un-blocked and logical records are written to a computer disc file.

Program - 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 judgements as to the quality of the field correction data are made at this time.

Output from this program provides input for IOCAVE.

Program - IOCAVE

NODC calibrations are applied to the raw data. Data are checked to insure that they are within limits. Salinity and sigma-t are calculated. One-meter average values are calculated and written to a computer disc file.

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 ‰	NANSEN BOTTLES & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & INTEROCEAN CASSETTE CTD	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A

DATE:

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TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8166478

- 1) File Type: F022
- 2) Project Ident.: N.P.A.
- 3) Track Nos.: 6901-1d

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (check)</u>
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II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (check)</u>
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- 1. Barometric Pressure - zero values deleted.
- 2. Latitude (minutes), Sta. 68, TR6904 - 6850 changed to 0650.
- 3. Changed salinity range to accept low values.

III. Processor Name: D. Lewis

over

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

ACCESSION/TRACK NO.: *SI 00478 / TR 6901-10*

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	<i>W2044 W2042 W2052 W2050 W2040 W1971</i>	<i>NL</i>	<i>120</i>	<i>600</i>	<i>FB</i>		<i>16,081</i>
DUPLICATE	<i>W1848 W1902 W1956 W1674</i>						
	<i>W12590</i>	<i>NL</i>	<i>120</i>	<i>600</i>	<i>FB</i>		<i>16,081</i>
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	<i>* DE173*</i>					<i>F022, TR 6901</i>	<i>12,280</i>
EDITED DISK FILE							

**Asheville*

4. Extra record type ones were
deleted (3801)

DIF 2:3108

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8166478

- 1) File Type: F022
- 2) Project Ident.: N.P.R.
- 3) Track Nos.: 6901-10

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
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II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
--------------	-------------------------------------

- 1. Barometric Pressure - zero values deleted.
- 2. Latitude (minutes), Sta. 68, TR6904 - 6850 changed to 0650.
- 3. Changed salinity range to accept low values.

III. Processor Name: D. Lewis

over

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8100478	F022	TR6901	9999	31I7	32YQ	1979/10/06	RT02	314477
8100478	C022	329256	9999	31I7	32YQ	1979/10/06	TR6901	314478
8100478	F022	TR6902	9999	31I7	32YQ	1979/11/15	RT03	314479
8100478	C022	329257	9999	31I7	32YQ	1979/11/15	TR6902	314480
8100478	F022	TR6903	9999	31I7	32YQ	1979/12/15	RT04	314481
8100478	C022	329258	9999	31I7	32YQ	1979/12/15	TR6903	314482
8100478	F022	TR6904	9999	31I7	32YQ	1980/02/24	RT05	314483
8100478	C022	329259	9999	31I7	32YQ	1980/02/24	TR6904	314484
8100478	F022	TR6905	9999	31I7	32YQ	1980/04/04	RT06	314485
8100478	C022	329260	9999	31I7	32YQ	1980/04/04	TR6905	314486
8100478	F022	TR6906	9999	31I7	32YQ	1980/05/02	RT07	314487
8100478	C022	329261	9999	31I7	32YQ	1980/05/02	TR6906	314488
8100478	F022	TR6907	9999	31I7	32YQ	1980/06/28	RT09	314489
8100478	C022	329262	9999	31I7	32YQ	1980/06/28	TR6907	314490
8100478	F022	TR6908	9999	31I7	32YQ	1980/08/07	RT10	314491
8100478	C022	329263	9999	31I7	32YQ	1980/08/07	TR6908	314492
8100478	F022	TR6909	9999	31I7	32YQ	1980/09/16	RT11	314493
8100478	C022	329264	9999	31I7	32YQ	1980/09/16	TR6909	314494
8100478	F022	TR6910	9999	31I7	32YQ	1980/10/07	RT12	314495
8100478	C022	329265	9999	31I7	32YQ	1980/10/07	TR6910	314496

(20 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8100478	F022	TR6901	32YQ	25	964	79/10/06	79/10/10
8100478	C022	329256	32YQ	25	25	79/10/06	79/10/10
8100478	F022	TR6902	32YQ	25	936	79/11/15	79/11/19
8100478	C022	329257	32YQ	25	24	79/11/15	79/11/19
8100478	F022	TR6903	32YQ	30	1252	79/12/15	79/12/20
8100478	C022	329258	32YQ	30	31	79/12/15	79/12/20
8100478	F022	TR6904	32YQ	33	1315	80/02/24	80/03/05
8100478	C022	329259	32YQ	33	38	80/02/24	80/03/05
8100478	F022	TR6905	32YQ	37	1627	80/04/04	80/04/10
8100478	C022	329260	32YQ	37	39	80/04/04	80/04/10
8100478	F022	TR6906	32YQ	35	1485	80/05/02	80/05/06
8100478	C022	329261	32YQ	35	39	80/05/02	80/05/06
8100478	F022	TR6907	32YQ	38	1489	80/06/28	80/07/02
8100478	C022	329262	32YQ	38	41	80/06/28	80/07/02
8100478	F022	TR6908	32YQ	10	227	80/08/07	80/08/11
8100478	C022	329263	32YQ	10	7	80/08/07	80/08/11
8100478	F022	TR6909	32YQ	10	1767	80/09/16	80/09/25
8100478	C022	329264	32YQ	10	51	80/09/16	80/09/25
8100478	F022	TR6910	32YQ	10	1207	80/10/07	80/10/13
8100478	C022	329265	32YQ	10	33	80/10/07	80/10/13

(20 rows affected)