

DATA DOCUMENTATION FORM

TR7292

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT MS-D <i>FO15</i>	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
		PLATFORM OPERATOR FROM: MO, DAY, YR TO: MO, DAY, YR	
		USA	USA 02/13/79 08/17/79
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. <i>NEGOA</i> 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) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
CURRENT SPEED	CM/SEC	RCM-4	N/A	Conductivity to salinity conversion equations attached to DDF
DIRECTION	degrees T (includes declination of degrees)	Aanderaa Current Meters		
TEMPERATURE	Degrees C			
SALINITY	0/00			
DEPTH	Meters			
				<p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <hr/> <p>Expect good precision. Accuracy not checked in field.</p>

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0064 (8908 Records) Meter 3177

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, 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"/> .5 inch</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) 289 015CM0064 Montague Strait-D (MS-D) Dr. Royer 02/13/79 - 08/17/79 Tape 3 of 3 9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input 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 60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>

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1      SUBROUTINE CONSAL(R,B,T,D,S)
2      C
3      C WRITTEN JAN 7,1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE  CALL CONSAL(R,B,T,D,S)
13     C   WHERE R IS RATIO C(S,T,P)/C(35,B,0)
14     C   B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C   IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C   T IS IN SITU TEMPERATURE IN DEG C
17     C   ***** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS *   **
18     C   D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C   PRESSURE IN DECIBARS
20     C   S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     R2=R*B
28     RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     RO= RB/R
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     T2=T*T
34     F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     RO= RO/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     RO= RO/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     R2 = RO*RO
45     S = -0.08996 + 28.8567*RO + 12.18882*R2 - 10.61869*RO*R2
46     X  + 5.98624*R2*R2 - 1.32311*R2*R2*RO
47     S = S + RO*(RO-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*RO*T
48     X  + ( 1.25E-4 - 2.9E-6*T)*P )
49     C
50     C RETURN TO CALLER
51     RETURN
52     END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
25K WORDS WERE USED FOR THIS COMPILATION

FILE.

CONTAINED 8908 RECORDS

FILE.

80 RECORDS.

NUMBER

01	3243360360366	364361100363	361367367324	305343305331	015CM00641 3177METER
02	3243360360366	364361100363	361367367100	100100100100	3177 1
03	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177 2
04	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177 3
05	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177 4
06	3243360360366	364361100363	361367367327	331326302323	015CM00641 3177PROBL
07	3243360360366	364361100363	361367367326	305345305331	ENS W/SPD EVERY 32
08	3243360360366	364361100363	361367367303	311331303344	RECCRDS GO T 5
09	3243360360366	364361100363	361367367303	345301323344	015CM00641 3177O ZER
10	3243360360366	364361100363	361367367303	322305323350	O..A HIGHLY UNLIKELY 6
11	3243360360366	364361100363	361367367303	311331303344	015CM00641 3177CIRCU
12	3243360360366	364361100363	361367367327	322305323350	STANCE. THESE VALU
13	3243360360366	364361100363	361367367327	322305323350	ES WERE INTER 7
14	3243360360366	364361100363	361367367327	322305323350	015CM00641 3177DECLAT
15	3243360360366	364361100363	361367367327	322305323350	ION. RECCRDS 2490-25
16	3243360360366	364361100363	361367367327	322305323350	34 8

UTL2	REPORT	771101	PAGE	2	
01	3243360360366	364361100363	361367367346	305331305100	015CM00641 3177WEDE
02	3243360360366	364361100363	361367367342	100302305303	CHANGED TO ZEPUS REC
03	3243360360366	364361100363	361367367301	100100100371	AUSE OF BAD D 9
04	3243360360366	364361100363	361367367301	343301100303	015CM00641 3177ATA C
05	3243360360366	364361100363	361367367301	100100100100	AUSED BY 10
06	3243360360366	364361100363	361367367331	305303326345	015CM00641 3177RECOV
07	3243360360366	364361100363	361367367350	113100100343	ERY/REDEPLOYMENT. T
08	3243360360366	364361100363	361367367350	100100361361	HIS RESULTED 11
09	3243360360366	364361100363	361367367311	325100342326	015CM00641 3177I' SO
10	3243360360366	364361100363	361367367325	100343310305	ME LOW VALUES ON THE
11	3243360360366	364361100363	361367367306	100100100100	015CM00641 3177FINAL
12	3243360360366	364361100363	361367367306	100100361363	. 13
13	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
14	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
15	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
16	3243360360366	364361100363	361367367100	100100361365	015CM00641 3177
17	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
18	3243360360366	364361100363	361367367100	100100361366	015CM00641 3177
19	3243360360366	364361100363	361367367303	326325345305	015CM00641 3177CCNVE
20	3243360360366	364361100363	361367367303	326325345305	RSION EQUATIONS OBT
21	3243360360366	364361100363	361367367303	100100361367	INED FROM NRC 17
22	3243360360366	364361100363	361367367303	100303301323	015CM00641 3177C CAL
23	3243360360366	364361100363	361367367303	100100100100	TERATION. 18
24	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
25	3243360360366	364361100363	361367367100	304103321301	INFORMATION DATED JA
26	3243360360366	364361100363	361367367100	100100361371	4 1978 19
27	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
28	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
29	3243360360366	364361100363	361367367100	100100362360	015CM00641 3177
30	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177
31	3243360360366	364361100363	361367367100	100100362361	015CM00641 3177
32	3243360360366	364361100363	361367367100	100100100100	015CM00641 3177

CM 0064 FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 79	02 13
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	08 17
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			OCS			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		14A. BEGINNING DATE	19 79	02 13	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14B. ENDING DATE	19 79	08 17	
15. TEN-DEGREE SQUARE, SUBSQUARES				16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERV.			
15A. 10°	15B. 5°	15C. 1°		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Circle approp.)
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. XX AT 30M		*19. DATA STORAGE MEDIUM (Check one)		17A. BEGINNING LATITUDE		59 58.6	NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147 49 0	EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED							

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

CONTINUED

8908 RECORDS

50 RECORDS.

LINE NUMBER

21	324336033603366	3643361100363	361367367324	305343305331	015CM00641 3177METER
21	324336033603366	3643361100363	361367367324	305343305331	3177
21	324336033603366	3643361100363	361367367324	305343305331	1
22	324336033603366	3643361100363	361367367324	305343305331	015CM00641 3177
21	324336033603366	3643361100363	361367367324	305343305331	2
23	324336033603366	3643361100363	361367367324	305343305331	015CM00641 3177
21	324336033603366	3643361100363	361367367324	305343305331	3
24	324336033603366	3643361100363	361367367324	305343305331	015CM00641 3177
21	324336033603366	3643361100363	361367367324	305343305331	4
25	324336033603366	3643361100363	361367367327	331326302323	015CM00641 3177PROBL
21	324336033603366	3643361100363	361367367327	331326302323	EMS W/SPD EVERY 32
21	324336033603366	3643361100363	361367367327	331326302323	RECORDS GO T 5
26	324336033603366	3643361100363	361367367326	303351305331	015CM00641 3177C ZER
21	324336033603366	3643361100363	361367367326	303351305331	O..A HIGHLY UNLIKELY
21	324336033603366	3643361100363	361367367326	303351305331	6
27	324336033603366	3643361100363	361367367303	311331303344	015CM00641 3177CIRCU
21	324336033603366	3643361100363	361367367303	311331303344	MSTANCE. THESE VALU
21	324336033603366	3643361100363	361367367303	311331303344	ES WERE INTER 7
28	324336033603366	3643361100363	361367367327	326323301343	015CM00641 3177PLAT
21	324336033603366	3643361100363	361367367327	326323301343	FORM RECORDS 2490-25
21	324336033603366	3643361100363	361367367327	326323301343	34 8

UTL2	REPORT	771101	PAGE	2	
9	324336033603366	3643361100363	361367367346	305331305100	015CM00641 3177WEP
21	324336033603366	3643361100363	361367367346	305331305100	CHANGED TO ZEPUS REC
21	324336033603366	3643361100363	361367367346	305331305100	AUSE OF BAD D 9
10	324336033603366	3643361100363	361367367301	343301100303	015CM00641 3177ATA C
21	324336033603366	3643361100363	361367367301	343301100303	AUSED BY 10
11	324336033603366	3643361100363	361367367331	305303326345	015CM00641 3177RECOV
21	324336033603366	3643361100363	361367367331	305303326345	ERY/REDEPLOYMENT. T
21	324336033603366	3643361100363	361367367331	305303326345	HIS RESULTED 11
12	324336033603366	3643361100363	361367367311	325100342326	015CM00641 3177IN SO
21	324336033603366	3643361100363	361367367311	325100342326	ME LOW VALUES ON THE
21	324336033603366	3643361100363	361367367311	325100342326	12
13	324336033603366	3643361100363	361367367306	311325301323	015CM00641 3177FINAL
21	324336033603366	3643361100363	361367367306	311325301323	13
21	324336033603366	3643361100363	361367367306	311325301323	13
14	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	14
21	324336033603366	3643361100363	361367367100	100100100100	14
15	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	15
21	324336033603366	3643361100363	361367367100	100100100100	15
16	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	16
21	324336033603366	3643361100363	361367367100	100100100100	16
17	324336033603366	3643361100363	361367367303	326325345305	015CM00641 3177CONVE
21	324336033603366	3643361100363	361367367303	326325345305	RSION EQUATIONS OSTA
21	324336033603366	3643361100363	361367367303	326325345305	THED FROM NRC 17
18	324336033603366	3643361100363	361367367303	100303301323	015CM00641 3177C CAL
21	324336033603366	3643361100363	361367367303	100303301323	IBRATION: 18
21	324336033603366	3643361100363	361367367303	100303301323	18
19	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	INFORMATION DATED JA
21	324336033603366	3643361100363	361367367100	100100100100	4 1978 19
20	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	20
21	324336033603366	3643361100363	361367367100	100100100100	20
21	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177
21	324336033603366	3643361100363	361367367100	100100100100	21
21	324336033603366	3643361100363	361367367100	100100100100	21
21	324336033603366	3643361100363	361367367100	100100100100	015CM00641 3177

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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

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 (✓)	
Aanderaa RCM4 Meter 3177	Jan. 1978		NRCC	1 year					

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: 015
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: 7292

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

Changed data source code C1 to CI.
Put in zero ~~for~~ blank tenths of min. (time).
Deleted all lines with sequence nos 2393-2437.
Changed E long to W longitude

III. Processor Name:

Charles B. Selkirk

DATA SET FILE SHEET

APPLIC. FOR/TRACK : 8100550

TR 7292

Step	Completion Date/Init.	Tape # or USSJ	# of Files	BLKSIZE	LRECL	# RECORDS
Step <i>w1250</i> ORIGINATOR TAPE # <i>4270</i>	<i>6/22/81</i>	<i>R</i>	<i>4270</i>	<i>3000</i>	<i>60</i>	<i>8908</i>
QUAD1/SCAN TAPE #						
ASSIGNED FOR PROCESS.						
DDF EVALUATION						
QUALITY REVIEW						
PRELIMINARY DATA SORT						
PRELIMINARY MULCHLK	<i>7/7/81</i>	<i>CBF</i>	<i>CBS- F015T7292</i>	<i>VB</i>	<i>60</i>	<i>8908</i>
FIRST USER TAPE #						
WORK DISK FILE	<i>7/7/81</i>	<i>CBF</i>	<i>CBS- F015T7292</i>	<i>VB</i>	<i>60</i>	<i>8908</i>
FINAL USER TAPE #						
FINAL MULCHLK	<i>7/9/81</i>	<i>CBF</i>	<i>"</i>	<i>VB</i>	<i>60</i>	<i>8863</i>
EDITED DISK FILE	<i>7/9/81</i>	<i>CBF</i>	<i>DMNOEX M075 F015T7292</i>	<i>VB</i>	<i>60</i>	<i>8863</i>
DATA SET "FINALIZED"						

ACCESSION/TRACK NO.:

8160550 TR 7292

TYPE OF TAPE	TAPE NUMBER	LABEL	TRCCL	BLK SIZE	RECEM	REMARKS	# RECORDS
ORIGINATOR	W1250 4270	NL	60	3000	FB	800 BPI 1600 BPI	8908
DUPLICATE							
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSH					REMARKS	# RECORDS
WORK DISK FILE	CBS- FO15T7292	B SL	60	3000 VAR	VB FB		8863
EDITED DISK FILE	DMNOEX MPD 75, FO15T7292	SL	60	3000 VAR	VB FB		8863

ACCESSION
NUMBER

8100550

DATA DOCUMENTATION FORM

TR7293

DOI = A:2:22

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT MS-D F015	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
		PLATFORM OPERATOR	FROM: MO, DAY, YR TO: MO, DAY, YR
		USA	USA 02/13/79 08/17/79
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. NEGOA 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) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <hr/> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <hr/> <p>Expect good precision. Accuracy not checked in field.</p>

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0065 (9664 Records) Meter 3131

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, Ak. 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input type="checkbox"/> BCD</td> <td style="text-align: center;"><input type="checkbox"/> BINARY</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> ASCII</td> <td style="text-align: center;"><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2" style="text-align: center;"><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)</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input type="checkbox"/> 3/4 INCH</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> .5 inch</td> </tr> </table>	<input type="checkbox"/> 3/4 INCH	<input checked="" type="checkbox"/> .5 inch
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY								
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC								
<input type="checkbox"/> _____									
<input type="checkbox"/> 3/4 INCH									
<input checked="" type="checkbox"/> .5 inch									
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input type="checkbox"/> SEVEN</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td style="text-align: center;"><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 style="text-align: center;"><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td style="text-align: center;"><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 style="text-align: center;"><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td style="text-align: center;"><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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>289 015CM0065 Montague Strait-D (MS-D) Dr. Royer 02/13/79 - 08/17/79 Tape 2 of 3 9trk, 800BPI, 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 style="text-align: center;"><input type="checkbox"/> 200 BPI</td> <td style="text-align: center;"><input type="checkbox"/> 1600 BPI</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input checked="" type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">60 bytes/block</p> <hr/> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bits/byte</p>
<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI								
<input type="checkbox"/> 556 BPI									
<input checked="" type="checkbox"/> 800 BPI									
<input type="checkbox"/> _____									

```

1      SUBROUTINE CONSAL(R,B,T,D,S)
2      C
3      C WRITTEN JAN 7,1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVEPSTON CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE  CALL CONSAL(R,B,T,D,S)
13     C      WHERE R IS RATIO C(S,T,P)/C(35,0)
14     C      B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C      IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C      T IS IN SITU TEMPERATURE IN DEG C
17     C      ***** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS * **
18     C      D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C      PRESSURE IN DECIBARS
20     C      S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     C      P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     C      R2=B*B
28     C      RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     C      X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     C      R0= RB*B
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     C      T2=T*T
34     C      F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     C      F=(1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     C      R0= R0/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     C      RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     C      X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     C      R0= R0/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     C      R2 = R0*R0
45     C      S = -0.08996 + 28.8567*R0 + 12.18882*R2- 10.61869*R0*R2
46     C      X  + 5.98624*R2*R2 - 1.32311*R2*R2*R0
47     C      S = S + R0*(R0-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*R0*T
48     C      X  + ( 1.25E-4 - 2.9E-6*T1*P )
49     C
50     C RETURN TO CALLER
51     C      RETURN
52     C      END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
25K WORDS WERE USED FOR THIS COMPILATION

CONTAINED

9064 RECORDS

TO CT 1 FILE.

50 RECORDS.

EN 1	324360360366	365361100363	361363361324	305343305331	015CM00651 3131METER
EN 1	361100100100	100100100100	100100100100	100100100100	3131
EN 2	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100100100	2
EN 3	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100100100	3
EN 4	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100100100	4
EN 5	324360360366	365361100363	361363361305	345305331350	015CM00651 3131EVERY
EN 1	33071003331300	303326331304	100100100100	100303326325	3RD RECORD OF CON
EN 1	331134531124	350100305330	344100100100	100100100365	DUCTIVITY ESU
EN 6	324360360366	365361100363	361363361301	323305304100	015CM00651 3131ALED
EN 1	100100100100	100100100100	100100100100	100100100100	C.O.E.
EN 7	324360360366	365361100363	361363361343	312305342305	015CM00651 3131THESE
EN 1	326331300430	100346305331	305100311325	343305331327	RECORDS WERE INTERD
EN 1	305304113100	100100100100	100100100100	100100100367	OLATED.
EN 8	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100100370	8

UTL2	REPORT	771101	PAGE	2	
EN 1	324360360366	365361100363	361363361331	305303326331	015CM00651 3131RECOR
EN 1	364437136331	362334536330	100346305331	305100303310	DS 2493-2537 WERE CH
EN 1	304100334332	100351305331	326100100100	100100100371	ANGED TO ZERO
EN 10	324360360366	365361100363	361363361342	100302305303	015CM00651 3131S REC
EN 1	100100100100	100100100100	100100100100	100100100100	AUSE
EN 11	324360360366	365361100363	361363361326	306100302301	015CM00651 3131OF BA
EN 1	305331335014	3313055304305	327100100100	100100361361	D VALUES CAUSED BY R
EN 1	305331335014	3313055304305	327100100100	100100361361	ECOVEFY/REDEP
EN 12	324360360366	365361100363	361363361323	326350324305	015CM00651 3131LOYME
EN 1	100100100100	100100100100	100100100100	100100100100	NT.
EN 13	324360360366	365361100363	361363361343	310311342100	015CM00651 3131THIS
EN 1	323343305304	100311325100	342226324305	100323326346	RESULTED IN SOME LOW
EN 1	344335342100	326325100343	310100100100	100100361363	VALUES ON TH
EN 14	324360360366	365361100363	361363361305	100306311325	015CM00651 3131E FIN
EN 1	100100100100	100100100100	100100100100	100100361364	AL.
EN 15	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100361365	15
EN 16	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100361366	16
EN 17	324360360366	365361100363	361363361303	326325345305	015CM00651 3131CONVE
EN 1	325100330300	324331343331	326325342100	326302345301	RSION EQUATIONS OSTA
EN 1	100305330300	324100325331	303100100100	100100361367	INED FROM NRC
EN 18	324360360366	365361100363	361363361303	100303301323	015CM00651 3131C CAL
EN 1	323311320000	100100100100	100100100100	100100100100	IBERATION
EN 1	100100100100	100100100100	100100100100	100100361370	18
EN 19	324360360366	365361100363	361363361311	325306326331	015CM00651 313114FOR
EN 1	100305330300	100100100100	100321001325	100361371367	ATION DATED JAN 197
EN 1	100100100100	100100100100	100100100100	100100361371	S
EN 20	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100362360	20
EN 21	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100362361	21
EN 22	324360360366	365361100363	361363361100	100100100100	015CM00651 3131
EN 1	100100100100	100100100100	100100100100	100100362362	22

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 style="text-align: center;">FILE TYPE "15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO 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 59-53 salinity in 0/00 (I4 to 1/100ths) 					

CM0065 FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE		<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 79	02	14
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA				CODE		5B. ENDING	19 79	09	02
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA		9. PROJECT OR EXPEDITION DESIGNATOR					
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074		When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.					

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		14A. BEGIN- NING DATE	19 79	02 14	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		13A. IF NO, WHEN PLANNED? MONTH YEAR		14B. END- ING DATE	19 79	09 02	
15. TEN-DEGREE SQUARE, SUBSQUARES				16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO		17. LOCATION OF CURRENT MET. OBSERVS.			
15A. 10°	15B. 5°	15C. 1°						DEGREES	MIN.	SEC.	HEM. (Cir- cle approp.)
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. <input checked="" type="checkbox"/> AT <input type="checkbox"/> TO		19. DATA STORAGE MEDIUM (Check one)		17A. BE- GINNING LATITUDE		<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE	
						OTHER (Specify)		59 58.6		NORTHERN SOUTHERN	
						CODE		17B. BE- GINNING LONGITUDE		147 49 0 EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)						21. ANALYSIS PRODUCTS PLANNED					

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS			
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	

PRINT TO CT 1 FILE.

CONTAINEL 9664 RECORDS

PRINT TO CT 1 FILE.

PRINT NUMBERS 50 RECORDS.

21	324360360366	365361100363	361363361324	325343305331	015CMC0651 3131METER
41	100100100100	100100100100	100100100100	100100100100	3131 1
22	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100100362 2
23	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100100363 3
24	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100100364 4
25	324360360366	365361100363	361363361305	345305331350	015CMC0651 3131EVERY
41	100100100100	100100100100	100100100100	100100100100	32ND RECORD OF COM DUCTIVITY ECU 5
26	324360360366	365361100363	361363361301	323305304100	015CMC0651 3131ALED
41	100100100100	100100100100	100100100100	100100100100	C.OE. 6
27	324360360366	365361100363	361363361343	312305342305	015CMC0651 3131THESE
41	100100100100	100100100100	100100100100	100100100100	RECORDS WERE INTERPOLATED. 7
28	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100100370 8

UTL2	REPORT	771101	PAGE	2	
29	324360360366	365361100363	361363361331	305303326331	015CMC0651 3131RECOR
41	100100100100	100100100100	100100100100	100100100100	DS 2493-2537 WERE CHANGED TO ZEPO 9
30	324360360366	365361100363	361363361343	100302305353	015CMC0651 3131S REC
41	100100100100	100100100100	100100100100	100100100100	AUSE 10
31	324360360366	365361100363	361363361324	326100302301	015CMC0651 3131OF 6A
41	100100100100	100100100100	100100100100	100100100100	VALUES CAUSED BY RECOVERY/RECEP 11
32	324360360366	365361100363	361363361323	326350324305	015CMC0651 3131LCYME
41	100100100100	100100100100	100100100100	100100100100	NT. 12
33	324360360366	365361100363	361363361343	310311342100	015CMC0651 3131THIS
41	100100100100	100100100100	100100100100	100100100100	RESULTED IN SOME LOW VALUES ON TH 13
34	324360360366	365361100363	361363361305	100306311325	015CMC0651 3131E FIN
41	100100100100	100100100100	100100100100	100100100100	AL. 14
35	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100361365 15
36	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100361366 16
37	324360360366	365361100363	361363361303	326325345305	015CMC0651 3131CONVE
41	100100100100	100100100100	100100100100	100100100100	RSION EQUATIONS OBTAINED FROM NRC 17
38	324360360366	365361100363	361363361303	100303301323	015CMC0651 3131C CAL
41	100100100100	100100100100	100100100100	100100100100	IBRATION. 18
39	324360360366	365361100363	361363361311	325306326331	015CMC0651 3131LINEFOR
41	100100100100	100100100100	100100100100	100100100100	MATION DATED JAN 1979 19
40	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100362360 20
41	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100362361 21
42	324360360366	365361100363	361363361100	100100100100	015CMC0651 3131
41	100100100100	100100100100	100100100100	100100100100	100100362362 22

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 (✓)	
Aanderaa RCM4 Meter 3131	Jan. 1978		NRCC	1 year					

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: 015
- 2) Project Ident.: Quexp
- 3) Track No.: TR 7293

I. Error Corrections as reported to Principal Investigator:

Date

Correction Completed (Check)

1. Record type 3 changed to 4.

II. Additional error corrections:

Date

Correction Completed (Check)

- 1. Illegal Blank field - minus to .01 - added zero to fill field.
- 2. Zero values of pressure - deleted
- 3. 8 values of salinity - deleted

III. Processor Name:

M. Lewis

SESSION / TRACK NO.: 8100550/7293

TYPE	TAPL. NUMBER	TAPT	TRECI	DATE/TIME	PLCTH	REMARKS	# RECORDS
INITIATOR	4396 W1027	NL	60	3000	FB		9664
DUPLICATE	4396	NL	60	3000	FB		9664
REFORMATTED							
FIRST USER							
INITIAL USER							
DISK FILE	DSH					REMARKS	# RECORDS
WORK DISK FILE	DIS 773 * FO 15 B. TR 7293						9664
EDITED DISK FILE	DIS 773 * FO 15 B. TR 7293						9664

copy tape # 4396

1127

Step	Completion Date/Init.	Copy #	# of Files	ELI/VI	TRCL	# RECORDS
ORIGINATOR TAPE # ⁴³⁹⁶ W1247	7/23/81	J.E.D. W1247	1	3000	60	9664
QUAD/SCAN TAPE #		4396				
ASSIGNED FOR PROCESS.						
DDF EVALUATOR	8/26/81	MRL				
QUALITY REVIEW	8/26/81					
PRELIMINARY DATA SORT						
PRELIMINARY BULCHER	8/24/81	MRL				
FIRST USER TAPE #						
WORK DISK FILE	8/25/81	MRL	D15773 * FC15B. TR7293			
FINAL USER TAPE #						
FINAL BULCHER	9/9/81	MRL				
EDITED DISK FILE	8/25/81	MRL	D15773 * FC15B. TR7293			
DATA SET "FINALIZED"						

DATA DOCUMENTATION FORM

TR 7294-7297

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT MS-D <i>FO15</i>	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
		7. DATES	
		FROM: MO, DAY, YR	TO: MO, DAY, YR
		USA	USA
		02/13/79	08/17/79
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. <i>NEGOA</i> 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) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

```

1      SUBROUTINE CONSAL (R,B,T,D,S)
2      C
3      C WRITTEN JAN 7, 1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE CALL CONSAL (R,B,T,D,S)
13     C WHERE R IS RATIO C(S,T,P)/C(35,B,0)
14     C B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C T IS IN SITU TEMPERATURE IN DEG C
17     C ***** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS * **
18     C D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C PRESSURE IN DECIBARS
20     C S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     R2=B*B
28     RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     RO= RB*R
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     T2=T*T
34     F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     RO= RO/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     RO= RO/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     R2 = RO*RO
45     S = -0.08996 + 28.8567*R0 + 12.18882*R2 - 10.61869*R0*R2
46     X  + 5.98624*R2*R2 - 1.32311*R2*R2*R0
47     S = S + R0*(R0-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*R0*T
48     X  + ( 1.25E-4 - 2.9E-6*T)*P )
49     C
50     C RETURN TO CALLER
51     RETURN
52     END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
25K WORDS WERE USED FOR THIS COMPILATION

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 "15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ul style="list-style-type: none"> ✓ 1. col 45-49 depth in meters (15 to 1/10ths) 2. col 50-53 salinity in 0/00 (14 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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0066 (5959 Records) Meter 3132
015CM0067 (6352 Records) Meter 3133
015CM0068 (645 Records) Meter 3129
015CM0069 (103 Records) Meter 3129

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, 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"/> .5 inch</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 LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>289 015 CM0066,67,68,69 Montague Strait - D (MS-D) Dr. Royer 02/13/79 - 08/17/79 Tape 1 of 3 9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input 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;">60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bits/byte</p>

CM0060
FILE NAME:
MCMURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD				
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)			YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE		<input type="checkbox"/> SHIP <input type="checkbox"/> BUOY <input type="checkbox"/> AIRCRAFT <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES					5A. BE-GINNING	19 79	02	14
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA				CODE			5B. ENDING	19 79	06	17
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA		9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEAP			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074		When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)	14. USABLE RECORDS				
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE	14A. BEGINNING DATE	19 79	02 14		
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?	14B. ENDING DATE	19 79	06 17		
15. TEN-DEGREE SQUARE, SUBSQUARES				XX YES <input type="checkbox"/> NO		MONTH	YEAR				
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO		17. LOCATION OF CURRENT MET. OBSERV.			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. XX AT 100 M		*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)	17A. BEGINNING LATITUDE	59 58.6	NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147 49 0	EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED							

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
		NO MODIFICATIONS			
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)			

CM0067 FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 79	02 13
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	06 25
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.			OCS/OCSEAP			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074							

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		YEAR	MONTH	DAY	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14A. BEGINNING DATE	19 79	02 13	
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		14B. ENDING DATE	19 79	06 25	
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERVS.			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.				<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Circle approp.)
18A. FROM	18B. <input checked="" type="checkbox"/> AT 200M				*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE	59 58.6	NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147 49 0	EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED							

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS		25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	
26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)			

CM 006 FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 79	02 13
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	02 26
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEAP			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		YEAR	MONTH	DAY	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14A. BEGIN- NING DATE	19 79	02 13	
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		14B. END- ING DATE	19 79	02 26	
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERV.			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18B. XX AT 225M		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Cir- cle approp.)
18A. FROM				*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BE- GINNING LATITUDE	59 58.6		NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BE- GINNING LONGITUDE	147.49	0	EASTERN WESTERN
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED							

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

CM0069

FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD				
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY	
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 79	04	05
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	04	07
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEAP				
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.							

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)	14. USABLE RECORDS					
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE	14A. BEGINNING DATE	19 79	04	05		
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14B. ENDING DATE		19 79	04	07
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		17. LOCATION OF CURRENT MET. OBSVS.				
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO		DEGREES	MIN.	SEC.	HEM. (Circle approp.)	
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. XX AT 225		*19. DATA STORAGE MEDIUM (Check one)		17A. BEGINNING LATITUDE	59	58.6	NORTHERN SOUTHERN	
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147	49	0 EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED								

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

015CM0661	3132METER	3132	1
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FILE	REPORT	771101	PAGE	2	
015CM0661	3132CF BA				9
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015CM0661	3132				20
015CM0661	3132				21
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015CM0661	3132.248E				22
	-2 * F 2 * + 2 * 1.165E-9 * R 2				
	** 3				

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 (✓)	
Aanderaa RCM4 Meter 3132	Jan. 1978		NRCC	1 year					
Aanderaa RCM4 Meter 3133	Jan. 1978		NRCC	1 year					
Aanderaa RCM4 Meter 3134	Jan. 1978		NRCC	1 year					



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235

National Oceanographic Data Center

September 3, 1981

OA/D781/SJH

TO: RD/MPF24 - Dean Dale
FROM: OA/D781 - Sid Haliminski
SUBJECT: OCSEAP File Type 015 Current Meter, TR7294-TR7297

Please find enclosed a copy of our check program results and inventory runs for File Type 015 current meter data from RU289. The file ID's for the data are CM0066-CM0069 and correspond to NODC track numbers TR7294-TR7297, respectively.

The data sets with FID's CM0067-CM0069 (TR7295-TR7296) are considered final processed. However, FID CM0066 (TR7294) will be kept in a "hold" processing status until the extreme low and high salinity values, that are "flagged", are verified. These appear at the same location and depth but at different times and may be correct. A verification would be desirable.

The following minor changes have been made to the data sets:

1. All detail type 3 records were changed to type 4 records because salinity values, described in the text records, were reported in the data sets.
2. An imbedded blank in the minute field of TR7296 record type 1 was filled with a zero.
3. An incorrect code "C1" was used for the institution in the Data Source Code No. 0218. This was corrected to "CI".

I have forwarded a copy of the check program (enclosure) to Dr. Royer, RU289, for general information and verification of the salinity values in TR7294.

Enclosure

cc: W. Fischer
M. Crane
T. Royer (w/enclosure)



DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: 015
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR 7294-7297

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
Changed institution code from <u>CF</u> to <u>CL</u> .	
I added blank in tens of min field (time) filled with <u>zero</u> .	

II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
A lot in card type 1 says we have salinity not conductivity. Card type 3 is changed to card type 4. There are many salinities that appear bad. Also in the text it mentions many bad salinities. We need the originator to determine what is bad, since originator have a habit of declaring all data good and we wind up putting apparently bad data back into the data base.	

III. Processor Name:

Charles Selbit

Copy tape 7463

Step	Completion Date/Init.	Tape # or File	# of Files	BLKSIZE	LRECL	# RECORDS
7463 ORIGINATOR TAPE # W0757	7/23/81 J. B.	W0757	1	3000	60	13059
QUAD/SCAN TAPE #						
ASSIGNED FOR PROCESS.						
DDF EVALUATION						
QUALITY REVIEW						
PRELIMINARY DATA SORT						
PRELIMINARY MULCHK		CBS 8/14/81	1	3000	60	13059
FIRST USER TAPE #						
WORK DISK FILE	CBS- FO15T7294	CBS 8/14/81	1	3000	60	13059
FINAL USER TAPE #						
FINAL MULCHK		CBS 8/19/81	1	3000	60	13059
EDITED DISK FILE	DM NOEXMPD75. FO15T7294	CBS 9/11/81	1	3000	60	13059
DATA SET "FINALIZED"		CBS 9/11/81 8/19/81	1	3000	60	13059

ACCESSION/TRACK NO.: 8100550/TR 7294, 7295, 7296, 7297

TYPE OF TAPE	TAPE NUMBER	LABEL	I.RECL.	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	7463 WØ 757	NL	60	3000	FB		13059
DUPLICATE							
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	CBS- FOI 57294	SL	60				13059
EDITED DISK FILE	DM NOOK MPD 75 FOI 57294	SL	60				13059

CM0070 TR7298

ACCESSION
NUMBER

8100550

DATA DOCUMENTATION FORM

CM0071 TR7299

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT HE-C FID'S CM0070 - CM0071 FO15	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR 7. DATES	
		NATIONALITY(IES)	
		PLATFORM	OPERATOR
		USA	USA
		FROM: MO, DAY, YR	TO: MO, DAY, YR
		09/17/78	02/16/79
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. NEGOA 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) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>O/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8110550

- 1) File Type: 015
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR 7298-7299

I. Error Corrections as reported to Principal Investigator:

ErrorCorrection Completed (Check)

II. Additional error corrections:

ErrorCorrection Completed (Check)

1. Illegal Blank field (minute to .01) - filled with zero.
2. Invalid value for Data Source Code; changed C1 to C1.
3. Data below range (Pressure values of zero (0)) - deleted.
4. Data below range (conductivity) (-8) - values deleted.

III. Processor Name: Mary R. Lewis

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE # <u>W1276</u> <u>104379</u>	<u>6/22/81</u>	<u>J.E.G.</u>	<u>4379</u>	<u>1</u>	<u>3000</u>	<u>60</u>	<u>12,409</u>
QUADI/SCAN TAPE #							
ASSIGNED FOR PROCESS.	<u>7/1/81</u>	<u>MES</u>					
DDF EVALUATION	<u>7/81</u>	<u>MES</u>					
QUALITY REVIEW	<u>7/81</u>	<u>MES</u>					
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	<u>7/13/81</u>	<u>MES</u>	<u>DIS 713*F015TR7298. TR7298</u>				
FIRST USER TAPE #							
WORK DISK FILE	<u>7/13/81</u>	<u>MES</u>	<u>DIS 713*F015TR7298. TR7298</u>				
FINAL USER TAPE #							
FINAL MULCHEK	<u>7/24/81</u>	<u>MES</u>	<u>DIS 713*F015TR7298. TR7298</u>				
EDITED DISK FILE							
DATA SET "FINALIZED"							

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

ACCESSION/TRACK NO.: 8100550/TR 7298-7299

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	W1276 <u>4379</u>	NL	60	3000	FB	800 BPI 1600 BPI	12409
DUPLICATE	4379	NL	60	3000	FB		12409
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE		D15773 * FO15 TR 7298. TR 7298					12409
EDITED DISK FILE		D15773 * FO15 TR 7298. TR 7298					12409

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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 style="text-align: center;">FILE TYPE "15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO 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 59-53 salinity in 0/00 (I4 to 1/100ths) 					

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 (✓)	
Aanderaa RCM4 Meter 2041	Dec. 1975		NRCC	1 year					
Aanderaa RCM4 Meter 1803	Feb. 1978		NRCC	1 year					

RECORDS

FILE	324363363367	360361100362	360364361324	305343305331	015CM00701 2041METER 2041	1
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	2
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	3
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	4
FILE	324363363367	360361100362	360364361343	311324305342	015CM00701 2041TIMES WERE OFF BUT REASON AFLS AGREEMEN	5
FILE	324363363367	360361100362	360364361343	100311342100	015CM00701 2041T IS OBTAINED	6
FILE	324363363367	360361100362	360364361346	310305325100	015CM00701 2041WHEN ADJUSTED TO BRIDGE L OGS. THE ARR	7
FILE	324363363367	360361100362	360364361301	350103346301	015CM00701 2041AY WA S HIT AND	8

UTL2	REPORT	771101	PAGE	2		
FILE	324363363367	360361100362	360364361324	326345305304	015CM00701 2041MOVED ON 28 DEC 1978. SA TR RECORDS DU	9
FILE	324363363367	360361100362	360364361305	342343311325	015CM00701 2041ESTIO NABLE	10
FILE	324363363367	360361100362	360364361301	306343305331	015CM00701 2041AFTER 27 JAN 1978 BECAUSE OF EXCESSIVE	11
FILE	324363363367	360361100362	360364361100	304311345311	015CM00701 2041 DIVI NG	12
FILE	324363363367	360361100362	360364361331	305342344323	015CM00701 2041RESUL TING FROM A LOSS IN BOUYANCY DURI	13
FILE	324363363367	360361100362	360364361325	307100303326	015CM00701 2041NG CO LLISION.	14
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	15
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	16
FILE	324363363367	360361100362	360364361343	310311342100	015CM00701 2041THIS SUBROUTINE CONTAINS CH TRANSFER F	17
FILE	324363363367	360361100362	360364361346	325303343311	015CM00701 2041UNCTI ONS FOR METER 2041	18
FILE	324363363367	360361100362	360364361303	301323311300	015CM00701 2041CALIE RATION BECAUSE WERE CH TAINED FROM N	19
FILE	324363363367	360361100362	360364361331	303303100304	015CM00701 2041RCC D ATED DEC 1975	20
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	21
FILE	324363363367	360361100362	360364361100	100100100100	015CM00701 2041	22

CM 0071
FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 78	09 21
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	01 28
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEAP			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS				
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		14A. BEGIN- NING DATE	19 78	09 21		
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14B. END- ING DATE	19 79	01 28		
15. TEN-DEGREE SQUARE, SUBSQUARES				16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERVS.				
15A. 10°	15B. 5°	15C. 1°		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Cir- cle approp.)	
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		CODE		17A. BE- GINNING LATITUDE	60	18	.3	NORTHERN SOUTHERN
18A. FROM		18B. XX AT SOM		<input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE				17B. BE- GINNING LONGITUDE	146	51	.6	EASTERN WESTERN
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED								

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS			
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	

1. ACCESSION NUMBER

NOAA FORM 44-9
(10-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONFORM APPROVED
O.M.B. NO. 41-R2689
EXPIRES - AUGUST 1977

CM0070

FILE NAME:
IMCURFIL

NODC INDEX FORM

FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	19 78	09 21
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	01 27
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.			OCS/OCSEAP			
8B: TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074							

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		YEAR	MONTH	DAY	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14A. BEGINNING DATE	19 78	09 21	
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		14B. ENDING DATE	19 79	01 27	
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERV.			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.				<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Circle approp.)
18A. FROM	18B. <input checked="" type="checkbox"/> AT 30M				*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE	60 18 .3	NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	146 51 .6	EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED							

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)			
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0070 (6206 Records) Meter 2041
015CM0071 (6203 Records) Meter 1803

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836

ADDRESS Institute of Marine Science, Univ. of Alaska, 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"/> .5 inch</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>289 015CM0070,015CM0071 Hinchenbrook Entrance-C (HE-C) Dr. Royer 09/17/78 - 02/16/79 Tape 3 of 3 9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input 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 60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>

```

1      SUBROUTINE CONSAL(R,B,T,D,S)
2      C
3      C WRITTEN JAN 7,1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE  CALL CONSAL(R,B,T,D,S)
13     C      WHERE R IS RATIO C(S,T,P)/C(35,0)
14     C      B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C      IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C      T IS IN SITU TEMPERATURE IN DEG C
17     C      ***** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS *      **
18     C      D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C      PRESSURE IN DECIBARS
20     C      S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     C      P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     C      R2=B*B
28     C      RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     C      X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     C      RO= RB*R
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     C      T2=T*T
34     C      F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     C      F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     C      RO= RO/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     C      RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     C      X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     C      RO= RO/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     C      R2 = RO*RO
45     C      S = -0.08996 + 28.8567*RO + 12.18882*R2 - 10.61869*RO*R2
46     C      X  + 5.98624*R2*R2 - 1.32311*R2*R2*RO
47     C      S = S + RO*(RO-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*RO*T
48     C      X  + ( 1.25E-4 - 2.9E-6*T)*P )
49     C
50     C RETURN TO CALLER
51     C      RETURN
52     C      END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
25K WORDS WERE USED FOR THIS COMPILATION

DATA DOCUMENTATION FORM

TR7300-TR7301

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

INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF ALASKA
FAIRBANKS, AK. 99701

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

OCS/OCSEAP

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

HE-C
FO15

4. PLATFORM NAME(S)

N/A

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

CURRENT METER
MOORING

6. PLATFORM AND OPERATOR NATIONALITY(IES)

PLATFORM OPERATOR

7. DATES

FROM: MO/DAY/YR TO: MO/DAY/YR

09/17/78 02/16/79

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.

NEGOA

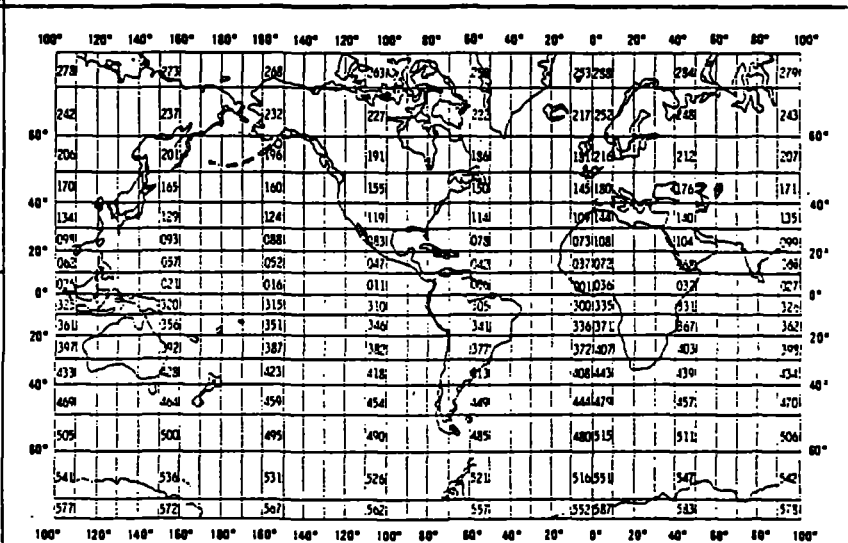
GENERAL AREA

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)

INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF ALASKA
FAIRBANKS, ALASKA 99701



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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

```

1      SURROUTINE CONSAL(R,B,T,D,S)
2      C
3      C WRITTEN JAN 7,1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE  CALL CONSAL(R,B,T,D,S)
13     C WHERE  R IS RATIO C(S,T,P)/C(35,8,0)
14     C         B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C         IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C         T IS IN SITU TEMPERATURE IN DEG C
17     C         **** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS *   **
18     C         D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C         PRESSURE IN DECIBARS
20     C         S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     R2=B*B
28     RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     RO= RB*R
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     T2=T*T
34     F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     RO= RO/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     RO= RO/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     R2 = RO*RO
45     S = -0.08996 + 28.8567*RO + 12.18882*R2 - 10.61869*RO*R2
46     X  + 5.98624*R2*R2 - 1.32311*R2*R2*RO
47     S = S + RO*(RO-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*RO*T
48     X  + ( 1.25E-4 - 2.9E-6*T)*P )
49     C
50     C RETURN TO CALLER
51     RETURN
52     END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
25K WORDS WERE USED FOR THIS COMPILATION

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0072 (5610 Records) Meter 1813
015CM0073 (6148 Records) Meter 1807

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, 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"/> .5 inch</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) 289 015CM0072, 015CM0073 Hinchenbrook Entrance-C (HE-C) Dr. Royer 09/17/78 - 02/16/79 Tape 2 of 3 9trk, 800BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input 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 60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>

CM0072 FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD						
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY			
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				19	78	09	21		
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING		19	79	01	15
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR				OCS/OCSEAP					
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.									

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)	14. USABLE RECORDS					
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE	14A. BEGINNING DATE	19	78	09	21	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?	14B. ENDING DATE	19	79	01	15	
15. TEN-DEGREE SQUARE, SUBSQUARES				16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERV.				
15A. 10°	15B. 5°	15C. 1°		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Cir- cle approp.)	
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. XX AT		100 M		17A. BEGINNING LATITUDE	60	18	.3	NORTHERN SOUTHERN
				19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)	17B. BEGINNING LONGITUDE	146	51	.6	EASTERN WESTERN	
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE						
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED								

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.)	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
NO MODIFICATIONS	
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

CM007
FILE NAME:
IMCURFILNODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. SURVEY PERIOD				
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY	
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP		<input type="checkbox"/> BUOY		<input type="checkbox"/> AIRCRAFT			
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA			<input type="checkbox"/> DRIFTING		<input checked="" type="checkbox"/> MOORED		<input type="checkbox"/> WINGED		5A. BE- GINNING	
CITY FAIRBANKS		STATE ALASKA	ZIP CODE/COUNTRY 99701/USA		<input type="checkbox"/> ANCHORED		<input type="checkbox"/> DRIFTING		<input type="checkbox"/> HELICOPTER	
8B. TELEPHONE		AREA CODE 907	NUMBER 479-7836/479-7074		<input type="checkbox"/> UNDERWAY		<input type="checkbox"/> ICE ISLAND		<input type="checkbox"/> FIXED STRUCTURES	
					CODE		5B. ENDING		1978 09 21	
									1979 01 26	
									OCS/OCSEAP	

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS					
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD		CODE		YEAR	MONTH	DAY			
<input checked="" type="checkbox"/> CURRENT METER		<input type="checkbox"/> NEUT. BUOY. FLOAT,		<input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS				14A. BEGINNING DATE	19	78	09	21	
<input type="checkbox"/> DROGUE		<input type="checkbox"/> FREE-FALL DEVICE		<input type="checkbox"/> ANALOG RECORD				14B. ENDING DATE	19	79	01	26	
15. TEN-DEGREE SQUARE, SUBSQUARES				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		17. LOCATION OF CURRENT MET. OBSERV.					
15A. 10°	15B. 5°	15C. 1°		<input checked="" type="checkbox"/> YES		MONTH		DEGREES		MIN.	SEC.	HEM. (Circle approp.)	
				<input type="checkbox"/> NO		YEAR							
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.				*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE		60	18	3	NORTHERN SOUTHERN
18A. FROM		18B. XX AT 200M		<input type="checkbox"/> PUNCHED CARDS		<input checked="" type="checkbox"/> MAG. TAPE		17B. BEGINNING LONGITUDE		146	51	6	EASTERN WESTERN
				<input type="checkbox"/> ANALOG RECORD		<input type="checkbox"/> PAP. TAPE							
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED									

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.)		25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	
NO MODIFICATIONS			
		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	

1	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813METER
2	32433603367	362361100361	370361363324	305343305331	1813
3	32433603367	362361100361	370361363324	305343305331	1
4	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
5	32433603367	362361100361	370361363324	305343305331	2
6	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
7	32433603367	362361100361	370361363324	305343305331	3
8	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
9	32433603367	362361100361	370361363324	305343305331	4
10	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813TIME
11	32433603367	362361100361	370361363324	305343305331	WETFE ADJUSTED TO
12	32433603367	362361100361	370361363324	305343305331	REF WITH BRID
13	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813GE LO
14	32433603367	362361100361	370361363324	305343305331	GS. ARRAY
15	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813WAS
16	32433603367	362361100361	370361363324	305343305331	IT BE RESULTING IN A SI
17	32433603367	362361100361	370361363324	305343305331	GNIFICANT LOS
18	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813S OF
19	32433603367	362361100361	370361363324	305343305331	SUBSURFACE
20	32433603367	362361100361	370361363324	305343305331	

UTLR	REPORT	771101	PAGE	2	
21	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813BOUYA
22	32433603367	362361100361	370361363324	305343305331	NCY AND SUBSEQUENT
23	32433603367	362361100361	370361363324	305343305331	IVING. DATA
24	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813RECOM
25	32433603367	362361100361	370361363324	305343305331	ES QUESTIONABLE
26	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813AFTER
27	32433603367	362361100361	370361363324	305343305331	15 JAN 1978 BECAUSE
28	32433603367	362361100361	370361363324	305343305331	OF EXCESSIVE
29	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813 DIVI
30	32433603367	362361100361	370361363324	305343305331	NG.
31	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813NOTE-
32	32433603367	362361100361	370361363324	305343305331	-DEPTH AND CONDUCTIV
33	32433603367	362361100361	370361363324	305343305331	ITY CHANNELS
34	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813SUSPE
35	32433603367	362361100361	370361363324	305343305331	CT...
36	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
37	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
38	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813THIS
39	32433603367	362361100361	370361363324	305343305331	SUBROUTINE CONTAINS
40	32433603367	362361100361	370361363324	305343305331	CM TRANSFER F
41	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813UNCTI
42	32433603367	362361100361	370361363324	305343305331	ONS FOR METER 1813
43	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813CALI
44	32433603367	362361100361	370361363324	305343305331	BRATION FROM'S WERE
45	32433603367	362361100361	370361363324	305343305331	TAINED FROM 'N
46	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813PCC D
47	32433603367	362361100361	370361363324	305343305331	ATED MARC- 1978
48	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
49	32433603367	362361100361	370361363324	305343305331	
50	32433603367	362361100361	370361363324	305343305331	015CMC0721 1813
51	32433603367	362361100361	370361363324	305343305331	
52	32433603367	362361100361	370361363324	305343305331	

1	324360360367	362361100361	370361363324	305343305331	015CMC0721 1813METER
21	324360360367	362361100361	370361363324	305343305331	1813
41	324360360367	362361100361	370361363324	305343305331	1
21	324360360367	362361100361	370361363324	100100100100	015CMC0721 1813
41	324360360367	362361100361	370361363324	100100100100	2
21	324360360367	362361100361	370361363324	100100100100	015CMC0721 1813
41	324360360367	362361100361	370361363324	100100100100	3
21	324360360367	362361100361	370361363324	100100100100	015CMC0721 1813
41	324360360367	362361100361	370361363324	100100100100	4
21	324360360367	362361100361	370361363343	311324305342	015CMC0721 1813TIMES
41	324360360367	362361100361	370361363343	311324305342	WERE ADJUSTED TO AG
					REE WITH BRID
21	324360360367	362361100361	370361363307	305100323326	015CMC0721 1813GE LO
41	324360360367	362361100361	370361363307	305100323326	GS. ARRAY
					5
21	324360360367	362361100361	370361363346	301342102310	015CMC0721 1813WAS
41	324360360367	362361100361	370361363346	301342102310	IT RESULTING IN A SI
					GNIFICANT LOS
21	324360360367	362361100361	370361363342	100326306100	015CMC0721 1813S OF
41	324360360367	362361100361	370361363342	100326306100	SUBSURFACE
					6

UTL2	REPORT	771101	PAGE	2	
9	324360360367	362361100361	370361363302	326344350301	015CMC0721 1813BOUYA
21	324360360367	362361100361	370361363302	326344350301	NCY AND SUBSEQUENT
41	324360360367	362361100361	370361363302	326344350301	IVING. DATA
10	324360360367	362361100361	370361363302	305303326324	015CMC0721 1813SECOM
21	324360360367	362361100361	370361363302	305303326324	ES QUESTIONABLE
41	324360360367	362361100361	370361363302	305303326324	10
11	324360360367	362361100361	370361363301	306343305331	015CMC0721 1813AFTER
21	324360360367	362361100361	370361363301	306343305331	15 JAN 1978 BECAUSE
41	324360360367	362361100361	370361363301	306343305331	OF EXCESSIVE
					11
12	324360360367	362361100361	370361363100	304311345311	015CMC0721 1813 DIVI
21	324360360367	362361100361	370361363100	304311345311	NG.
41	324360360367	362361100361	370361363100	304311345311	12
13	324360360367	362361100361	370361363325	326344350301	015CMC0721 1813NOTE-
21	324360360367	362361100361	370361363325	326344350301	DEPTH AND CONDUCTIV
41	324360360367	362361100361	370361363325	326344350301	ITY CHANNELS
					13
14	324360360367	362361100361	370361363342	344342327305	015CMC0721 1813SUSPE
21	324360360367	362361100361	370361363342	344342327305	CT...
41	324360360367	362361100361	370361363342	344342327305	14
15	324360360367	362361100361	370361363100	100100100100	015CMC0721 1813
21	324360360367	362361100361	370361363100	100100100100	
41	324360360367	362361100361	370361363100	100100100100	15
16	324360360367	362361100361	370361363100	100100100100	015CMC0721 1813
21	324360360367	362361100361	370361363100	100100100100	
41	324360360367	362361100361	370361363100	100100100100	16
17	324360360367	362361100361	370361363343	310311342100	015CMC0721 1813THIS
21	324360360367	362361100361	370361363343	310311342100	SUBROUTINE CONTAINS
41	324360360367	362361100361	370361363343	310311342100	CM TRANSFER F
					17
18	324360360367	362361100361	370361363344	3253033243311	015CMC0721 1813UMCTI
21	324360360367	362361100361	370361363344	3253033243311	ONS FOR METER 1813
41	324360360367	362361100361	370361363344	3253033243311	18
19	324360360367	362361100361	370361363303	3013233111502	015CMC0721 1813CALIB
21	324360360367	362361100361	370361363303	3013233111502	RATION EQNS WERE OF
41	324360360367	362361100361	370361363303	3013233111502	TAINED FROM N
					19
20	324360360367	362361100361	370361363331	303303100304	015CMC0721 1813PCC D
21	324360360367	362361100361	370361363331	303303100304	ATED MARCH 1978
41	324360360367	362361100361	370361363331	303303100304	20
21	324360360367	362361100361	370361363100	100100100100	015CMC0721 1813
41	324360360367	362361100361	370361363100	100100100100	
					21
21	324360360367	362361100361	370361363100	100100100100	015CMC0721 1813
41	324360360367	362361100361	370361363100	100100100100	
					22

INSTRUMENT CALIBRATION

This calibration information is being provided to 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 (✓)	
Aanderaa RCM4 Meter 1813	March 1978		NRCC	1 year					
Aanderaa RCM4 Meter 1807	May 1980		NRCC	1 year					

RECORD FORMAT DESCRIPTION

RECORD NAME _____					
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 style="margin: 0;">FILE TYPE "15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO 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) 					

Error Correction Documentation Form

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: 015
- 2) Project Ident.: OCSeap
- 3) Track Nos.: 7300 - 7301

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

~~OK~~

II. Additional error corrections:

Error

Correction Completed (Check)

Changed blanks to zeroes
in longitude, minutes, and time minutes
Changed "data source" from C1 to
C1.
Changed E long to W longitude.

III. Processor Name:

Charles J. Selick

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE # ^{W1047} 4287	6/22/81	J.E.S.	4287	1	3000	60	11758
QUADI/SCAN TAPE #							
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	7/7/81	CBT	CBS-1 F015T7300	1	3000	60	11758
FIRST USER TAPE #							
WORK DISK FILE	7/7/81	CBT	"	"	"	"	"
FINAL USER TAPE #							
FINAL MULCHEK	7/7/81	CBT	"	"	"	"	"
EDITED DISK FILE	7/7/81	CBT	DUPLICATE MPD 75 F015T7300	"	"	"	"
DATA SET "FINALIZED"							

TAPE OR DISK ASSIGNMENT SHEET

(MRL) 11/6/78

(Rev. 11/80)

ACCESSION/TRACK NO.: 8100560/TR 7300-01

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	W1047 4287	NL	60	3000	FB	800 BPI 1600 BPI	11758
DUPLICATE							
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	CBS- FO15T7300	SL	60	3000	FB		11758
EDITED DISK FILE	DM NOE* MPD75. FO15T7300

ACCESSION
NUMBER

8100558

DATA DOCUMENTATION FORM *TR 7362*

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 APPROV.
O.M.B. No. 41-R

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			
INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OCS/OCSEAP		HE-C <i>FO15</i>	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
N/A	CURRENT METER MOORING	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		USA USA	09/17/78 12/16/79
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. <i>NEGON</i> 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 ITEM-1) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0074 (7111Records) Meter 1967

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836

ADDRESS Institute of Marine Science, Univ. of Alaska, 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"/> .5 inch</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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>289 015CM0074 Hinchbrook Entrance-C (HE-C) Dr. Royer 09/17/78 - 02/16/79 Tape 1 of 3 9trk, 800BPI, EBCDIC, NO LABEL, ODD PARITY</p>
<p>8. DENSITY <input type="checkbox"/> 200 BPI <input 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 60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>

```

1      SUBROUTINE CONSAL(R,B,T,D,S)
2      C
3      C WRITTEN JAN 7,1976 BY J DRYDEN AND R SEITZ
4      C
5      C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
6      C SITU CONDUCTIVITY RATIOS TO SALINITY
7      C
8      C ALGORITHM AND EQUATIONS TAKEN FROM "CONVERSION OF IN SITU MEASUREMENTS
9      C OF CONDUCTIVITY TO SALINITY" BY A.S. BENNETT (PREPUBLICATION COPY
10     C RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
11     C
12     C USAGE  CALL CONSAL(R,B,T,D,S)
13     C   WHERE R IS RATIO C(S,T,P)/C(35,0,0)
14     C   B IS BATH TEMPERATURE IN DEG C OR REFERENCE TEMP EMPLOYED
15     C   IN THE DESIGN OF SOME IN SITU SAMPLING INSTRUMENTS
16     C   T IS IN SITU TEMPERATURE IN DEG C
17     C   ***** NOT THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS *
18     C   D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
19     C   PPESSURE IN DECIBARS
20     C   S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
21     C
22     C
23     C
24     P=D
25     C
26     C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
27     F2=B*B
28     RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
29     X  + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
30     RO= RB*R
31     C
32     C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
33     T2=T*T
34     F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
35     F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
36     RO= RO/(1.0 + F)
37     C
38     C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
39     RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
40     X  + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
41     RO= RO/RT
42     C
43     C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
44     R2 = PO*RO
45     S = -0.08996 + 28.8567*R0 + 12.18882*R2 - 10.61869*R0*R2
46     X  + 5.98624*R2*R2 - 1.32311*R2*R2*R0
47     S = S + RO*(RO-1.0) * ( 0.0472*T - 4.6E-4*T2 - 0.004*R0*T
48     X  + ( 1.25E-4 - 2.9E-6*T)*P )
49     C
50     C RETURN TO CALLER
51     RETURN
52     END

```

THERE WERE NO DIAGNOSTICS IN ABOVE COMPILATION
 25K WORDS WERE USED FOR THIS COMPILATION

CM 0074 FILE NAME: IMCURFIL

NODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

U.M.B. NO. 41-R266.
EXPIRES - AUGUST

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERI.			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DA
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE				SHIP BUOY AIRCRAFT				SA. BE-GINNING	19 78 09 2
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA				<input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES		CODE		SB. ENDING	19 79 02 i
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA		9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEA I		
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074		When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.					

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS				
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		14A. BEGINNING DATE	19 78 09 21	14B. ENDING DATE	19 79 02 16	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO. WHEN PLANNED?						
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		17. LOCATION OF CURRENT MET. OBSER				
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO		DEGREES MIN. SEC. HEM. etc. app.				
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18A. FROM		18B. <input checked="" type="checkbox"/> AT 300 M		19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE	60 18 .3	NORTHE: SOUTHE:
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	146 50 6	EASTE: WESTE:		

20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)	21. ANALYSIS PRODUCTS PLANNED
---	-------------------------------

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCD) binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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	"15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO DEVIATIONS FROM THIS TYPE, EXCEPT:				
	1. col 45-49 depth in meters (I5 to 1/10ths)				
	2. col 59-53 salinity in 0/00 (I4 to 1/100ths)				

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 (SERIAL, 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 (✓)	
Aanderaa RCM4 Meter 1967	Aug. 1975		NRCC	1 year					

DATE:

TO: NO DDF Form Submitted

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

1) File Type: 015

2) Project Ident.: OCSEap

3) Track Nos.: TR7302

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

1) legal imbedded blanks in longitude (min.): record '2'

✓

" " " " date (min.): record '3'

✓

9/10/81 R/T 3' CHGD TO R/T 4'

III. Processor Name:

Gerald W. Damen

Copy tape 02338

Step	Completion Date/Init.	Tape # or I/O	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #W2143	7/6/81	W2143	1	3000	60	7111
QUALITY/SCAN TAPE #						
ASSIGNED FOR PROCESS.						
DDF EVALUATION						
QUALITY REVIEW						
PRELIMINARY DATA SORT						
PRELIMINARY MULCHER	8/7/81	HARD				7111
FIRST USER TAPE #	02338	HARD	1			7111
WORK DESK FILE	D15GWD*BRIN. EQ15T7302	HARD	1			7111
FINAL USER TAPE #						
FINAL MULCHER	D15GWD*BRIN. EQ15T7302 8/18/81	HARD	1			7111
EDITED DISKETTE	DMNOE*DMPT5. EQ15T7302 8/19/81	HARD	1			7111
DATA SET "FINALIZED"						

ACCESSION/TRACK NO.: 8100550 / T127302

TYPE OF TAPE	TAPE NUMBER	LABEL	TRCCL	BLKSIZE	RLCEN	REMARKS	# RECORDS
ORIGINATOR	W2143 2338	NL	60	3000	FB		7111
DUPLICATE							
REFORMATTED							
FIRST USER	02338	NL	60	3000	FB		7111
FINAL USER							
DISK FILE	DSH					REMARKS	# RECORDS
WORK DISK FILE	D15G WDBRM, FQ15T1302						7111
EDITED DISK FILE	DMNOE3MP075, FQ15T302						7111

National Oceanographic Data Center

August 31, 1981

OA/D781/SJH

TO: RD/MPF24 - Dean Dale
FROM: OA/D781 - Sid Halinski
SUBJECT: OCSEAP File Type 015 Current Meter, TR7302

Enclosed is a copy of the check program results and preliminary inventories for file type 015 current meter data, file ID CM0074 (NODC number TR7302) from Dr. Royer, RU289.

As in our recent correspondence concerning TR7305 and TR7306 from RU289, similar corrections to TR7302 have been made during our processing of the data set:

1. Record type 2 had an illegal imbedded blank in the longitude (min) field. This blank was zero filled. Also, an incorrect code "C1" was used for the institution in the Data Source Code No. 0218. This was corrected to "CI".
2. Many record type 3's had illegal imbedded blanks in the date and time fields. These blanks were zero filled.

In addition to the above corrections, all detail type 3 records in FID DM0074 (TR7302) will be changed to type 4 records because salinity values, described in the text record, are reported in the data set. The only difference between type 3 and 4 records is that the former reports electrical conductivity and the latter reports salinity values.

The data set CM0074 (TR7302) will be considered final processed unless we receive other information and corrections if required.

Enclosure

cc: W. Fischer
M. Crane
T. Royer (w/enclosure)

ACCESSION NUMBER

8100558

DATA DOCUMENTATION FORM

TR7303-TR7304

DOF A:2:22

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-R26

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT MS-C	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
		7. DATES	
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		USA	USA 09/16/78 02/24/79
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 AN 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) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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 (✓)	
Aanderaa RCM4 Meter 1771	Aug. 1975		NRCC	1 year					
Aanderaa RCM4 Meter 1769	Aug. 1975		NRCC	1 year					

NODC INDEX FORM

FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

CM0076 FILE NAME: IMCURFIL

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			SHIP BUOY AIRCRAFT				19 78	09	
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA			<input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED				19 79	02	
CITY FAIRBANKS		STATE ALASKA	<input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER						
ZIP CODE/COUNTRY 99701/USA			<input type="checkbox"/> UNDERWAY						
8B. TELEPHONE		AREA CODE 907	<input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES						
NUMBER 479-7836/479-7074									
9. PROJECT OR EXPEDITION DESIGNATOR		When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						ocs/ocseap	

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)	14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD		CODE	14A. BEGINNING DATE	YEAR	MONTH	DA.
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT				<input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS			19 78	09	20	
<input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				<input type="checkbox"/> ANALOG RECORD			14B. ENDING DATE	YEAR	MONTH	DA.
15. TEN-DEGREE SQUARE, SUBSQUARES				13. ARE DATA PROCESSED?			19 79	02	14	
15A. 10°	15B. 5°	15C. 1°		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			17. LOCATION OF CURRENT MET. OBSERVATION			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.				16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO	DEGREES	MIN.	SEC.	HEM. GLOBE (circle appropriate)
18A. FROM	18B. <input checked="" type="checkbox"/> AT 100 M				*19. DATA STORAGE MEDIUM (Check one)		17A. BEGINNING LATITUDE			NORTHE SOUTHE
					<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE		59	59	.3	
					<input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		17B. BEGINNING LONGITUDE			EASTE WESTE
							147	47	.8	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)					21. ANALYSIS PRODUCTS PLANNED					

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)			
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCD, binary, etc.) and other pertinent processing factors)	
NO MODIFICATIONS			
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	

NODC INDEX FORM
FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD				
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DA.	
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE- GINNING	1978	09	
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	1979	02	
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			OCS/OCSEAP				
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.							

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS				
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		14A. BEGINNING DATE	1978	09	2	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14B. ENDING DATE	1979	02	13	
15. TEN-DEGREE SQUARE, SUBSQUARES				XXI YES <input type="checkbox"/> NO		MONTH YEAR		17. LOCATION OF CURRENT MET. OBS.				
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)		<input type="checkbox"/> YES <input type="checkbox"/> NO		DEGREES	MIN.	SEC.	HEMISPHERE	
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18B. XX AT 50M		*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE	59	59	.3	NORTH
18A. FROM				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147	47	.8	EAST
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED								

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)		24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCD, binary, etc.) and other pertinent processing factors)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.)		26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)	
NO MODIFICATIONS			
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)			

```

1      SUBROUTINE CONDSAL(C,T,D,S)
2
3      C
4      CONSAL WRITTEN JAN 7,1976 BY J DRYDEN AND P SEITZ      CONSAL(R,B,T,D)
5      C
6      CONDSAL ADAPTED FROM CONSAL, JUNE 1980.  CALLING LIST INCLUDES C AND
7      ELIMINATES R AND B.
8      C
9      PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
10     SITU CONDUCTIVITY TO SALINITY
11     C
12     ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENT
13     OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
14     RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
15     C
16     USAGE  CALL CONDSAL(C,T,D,S)
17            C IS CONDUCTIVITY IN MMHOS
18            T IS IN SITU TEMPERATURE IN DEG C
19     *** NOTE THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS ***
20            D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
21            PRESSURE IN DECIBARS)
22            S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PP
23
24            B IS BATH TEMPERATURE OR REFERENCE TEMPERATURE IN DEG C
25     CSW IS CONDUCTIVITY OF STANDARD WATER (S=35,T=B,P=0)
26            FOR NEIL BROWN, CSW=42.909
27
28     DATA E /15.0/
29     DATA CSW /42.909/
30
31     -----
32     ENTER HERE
33     -----
34
35     P=D
36     R=C/CSW
37
38     C
39     CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
40     R2=B*B
41     RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
42     & + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
43     R0= RB/R
44
45     C
46     CALCULATE AND APPLY GROSS PRESSURE CORRECTION
47     T2=T*T
48     F= 1.0 + 3.0785E-2*T + 3.169E-4*T2
49     F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
50     P0= R0/(1.0 + F)
51
52     C
53     CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
54     RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
55     & + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
56     R0= R0/RT
57
58     C
59     CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
60     P2 = R0*R0
61     S = -0.08996 + 28.8567*R0 + 12.18892*R2 - 10.61869*R0*R2
62
63     & + 5.98624*R2*R2 - 1.32311*R2*R2*R0
64     S = S + R0*(P0-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*R0*T
65     & + ( 1.25E-4 - 2.9E-6*T)*P )
66
67     C
68     RETURN TO CALLER
69     RETURN
70     END

```



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235

National Oceanographic Data Center

September 3, 1981

OA/D781/SJH

TO: RD/MPF24 - Dean Dale
FROM: OA/D781 - *Sid Halminski*
SUBJECT: OCSEAP File Type 015 Current Meter, TR7303-TR7304

Enclosed is a copy of our parameter check summary and inventory runs on File Type 015 current meter data from Dr. Royer, RU289. The FID's CM0075 and CM0076 have been assigned NODC track numbers TR7303 and TR7304, respectively.

As mentioned in previous correspondence on File Type 015 data, similar corrections have been made during our processing of the data sets:

1. There were a number of record type 3's and illegal imbedded blanks in the date and time fields. These blanks were zero filled.
2. Type 2 records had an incorrect code "C1" for the institution in the Data Source Code No. 0218. This was corrected to "CI".
3. Twenty-three record type 3's in FID CM0075 (TR7303) had a zero in the temperature, pressure, and current speed for east and north components; and, "-8" in the electrical conductivity fields. These were removed and the fields were left blank.

In addition to the above corrections, all detail type 3 records in both data sets will be changed to type 4 records because salinity values, described in the text records, are reported in the data sets.

The data sets CM0075 and CM0076, respectively TR7303 and TR7304, will be considered final processed unless we receive other information that will require further editing of the data.

I have forwarded a copy of the enclosure to Dr. Royer, RU289, for general information and corrections, if required.

Enclosure

cc: W. Fischer
M. Crane
T. Royer (w/enclosure)



ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: OIS
- 2) Project Ident.: CCSGAP
- 3) Track Nos.: 7303-7304

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

9/10/81 R/T 3's CHGD TO R/T 4.

II. Additional error corrections:

Error

Correction Completed (Check)

Put in missing zeroes in time (min to hundredths)
Changed instituter code from C1 to CI.
In sequence nos. 5827-5850, blanked out \emptyset temp,
 \emptyset pressure, \emptyset current speed N and E and \emptyset conductivity.

III. Processor Name:

Charles B. Selkirk

ACCESSION/TRACK NO.: 3100560 / TR 7303-7304

TYPE OF TAPE	TAPE NUMBER	TITLE	TR.CE	BUFSIZE	RECH	REMARKS	# RECORDS
ORIGINATOR	4253 12736	NL "	60 "	3000 "	FB "		14144 "
DUPLICATE							
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSH					REMARKS	# RECORDS
WORK DISK FILE	CBS- FO15T7303	SL	60	3000	FB		14144
EDITED DISK FILE	DMNOEX MPD75, FO15T7303	SL	60	3000	FB		14144

Step	Completion Date/Init.	Tape or Disk	# of Files	BLKSIZE	LRECL	# RECORDS
4253 ORIGINATOR TAPE #12736	7/2/81 J.Y.	4253	1	3000	60	14144
QUAD/SCAN TAPE #						
ASSIGNED FOR PROCESS.						
DDF EVALUATION						
QUALITY REVIEW						
PRELIMINARY DATA SORT						
PRELIMINARY CHECK		CBA 8/4/81				
FIRST USER TAPE #						
WORK DISK FILE	CBS - FO15T7303 FO15T7303	CBA 8/4/81	1	3000	60	14144
FINAL USER TAPE #						
FINAL CHECK						
EDITED DISK FILE	DM NOE * MPD 73 FO15T7303	CBA 8/7/81	1	3000	60	14144
DATA SET "FINALIZED"						

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0075 (7079 Records) Meter 1771
015CM0076 (7065 Records) Meter 1769

3. ATTRIBUTES AS EXPRESSED IN

PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen (907) 479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, 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 <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"/> .5 inch</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"/> octal 23</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>289 015 CM0075,CM0076 Montauge Strait-C (MS-C) Dr. Royer 09/16/78 - 02/14/79 Tape 1 of 2 9trk,800BPI,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 type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">60 bytes/block</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bits/byte</p>

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

ACCESSION
NUMBER

8100550

DATA DOCUMENTATION FORM

TR7305-TR7306

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 INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, AK. 99701			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OCS/OCSEAP		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT MS-C	
4. PLATFORM NAME(S) N/A	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) CURRENT METER MOORING	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
		PLATFORM USA	OPERATOR USA
		FROM: MO/DAY/YR 09/16/78	TO: MO/DAY/YR 02/14/79
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)		<p>The map shows a grid of Marsden squares from 100°W to 100°E and 70°N to 60°S. Numbers are placed in various squares, representing data collection locations. The numbers include: 278, 273, 268, 263, 258, 253, 248, 243, 238, 233, 228, 223, 218, 213, 208, 203, 198, 193, 188, 183, 178, 173, 168, 163, 158, 153, 148, 143, 138, 133, 128, 123, 118, 113, 108, 103, 98, 93, 88, 83, 78, 73, 68, 63, 58, 53, 48, 43, 38, 33, 28, 23, 18, 13, 8, 3, 279, 243, 207, 171, 135, 99, 63, 27, 325, 320, 315, 310, 305, 300, 335, 330, 325, 361, 356, 351, 346, 341, 336, 371, 366, 361, 397, 392, 387, 382, 377, 372, 407, 402, 438, 433, 428, 423, 418, 413, 408, 443, 438, 473, 468, 463, 458, 453, 448, 443, 478, 473, 470, 505, 500, 495, 490, 485, 480, 515, 510, 506, 541, 536, 531, 526, 521, 516, 551, 546, 577, 572, 567, 562, 557, 582, 587, 583, 578.</p>	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99701			

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
<p>CURRENT SPEED</p> <p>DIRECTION</p> <p>TEMPERATURE</p> <p>SALINITY</p> <p>DEPTH</p>	<p>CM/SEC</p> <p>degrees T (includes declination of degrees)</p> <p>Degrees C</p> <p>0/00</p> <p>Meters</p>	<p>RCM-4 Aanderaa Current Meters</p>	<p>N/A</p>	<p>Conductivity to salinity conversion equations attached to DDF</p> <p>-----</p> <p>Data are wild point edited only. No attempt has been made to correct S,T or D to STD casts.</p> <p>-----</p> <p>Expect good precision. Accuracy not checked in field.</p>

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-15

Designated by byte 10:

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

015CM0077 (7105 Records) Meter 392
015CM0078 (7067 Records) Meter 1770

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, 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"/> .5 inch</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>289 015 CM0077, CM0078 Montague Strait-C (MS-C) Dr. Royer 09/16/78 - 02/14/79 Tape 2 of 2 9trk,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 type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">60 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bits/byte</p>

```

1 SUBROUTINE CONDSAL(C,T,D,S)
2
3 C CONSAL WRITTEN JAN 7,1976 BY J DRYDEN AND P SEITZ CONSAL(R,B,T,(
4
5 C CONDSAL ADAPTED FROM CONSAL, JUNE 1980. CALLING LIST INCLUDES C AND
6 ELIMINATES R AND B.
7
8 C PURPOSE OF THIS ROUTINE IS TO PROVIDE CONVERSION CAPABILITY FOR IN
9 SITU CONDUCTIVITY TO SALINITY
10
11 C ALGORITHM AND EQUATIONS TAKEN FROM 'CONVERSION OF IN SITU MEASUREMENTS
12 OF CONDUCTIVITY TO SALINITY' BY A.S. BENNETT (PREPUBLICATION COPY
13 RECEIVED JAN 75 BY PRIVATE COMMUNICATION BETWEEN AUTHOR AND D NEBERT)
14
15 C USAGE CALL CONDSAL(C,T,D,S)
16 C C IS CONDUCTIVITY IN MMHOS
17 C T IS IN SITU TEMPERATURE IN DEG C
18 *** NOTE THAT BOTH B AND T ARE BOTH 1968 IPTS MEASUREMENTS ***
19 C D IS IN SITU DEPTH IN METERS (PRESUMED EQUIVALENT TO
20 PRESSURE IN DECIBARS)
21 C S IS CALCULATED SALINITY WHICH IS RETURNED TO CALLER IN PPT
22
23 C B IS BATH TEMPERATURE OR REFERENCE TEMPERATURE IN DEG C
24 C CSW IS CONDUCTIVITY OF STANDARD WATER (S=35,T=B,P=0)
25 FOR NEIL BROWN, CSW=42.909
26
27

```

```

28 DATA L /15.0/
29 DATA CSW /42.909/

```

```

30 -----
31 C
32 C ENTER HERE
33 C
34 -----

```

```

35 P=D
36 R=C/CSW
37
38 C CONVERT IN SITU RATIO TO 15 DEG C REFERENCE
39 P2=B*B
40 RB= 0.676518 + 2.00402E-2*B + 1.227E-4*B2 - 2.18091E-6*B*B2
41 & + 6.63405E-8*B2*B2 - 9.5646E-10*B2*B2*B
42 R0= RB*R
43
44 C CALCULATE AND APPLY GROSS PRESSURE CORRECTION
45 T2=T*T
46 F= 1.0 + 3.0786E-2*T + 3.169E-4*T2
47 F= (1.60836E-5*P - 5.4845E-10*P*P + 6.166E-15*P*P*P)/F
48 R0= R0/(1.0 + F)
49
50 C CALCULATE AND APPLY GROSS TEMPERATURE CORRECTION
51 RT= 0.676518 + 2.00402E-2*T + 1.227E-4*T2 - 2.18091E-6*T*T2
52 & + 6.63405E-8*T2*T2 - 9.5646E-10*T2*T2*T
53 R0= R0/RT
54
55 C CALCULATE SALINITY APPLY SECONDARY PRESS/TEMP CORRECTIONS
56 P2 = R0*R0
57 S = -0.08996 + 28.6567*R0 + 12.18892*R2 - 10.61869*R0*R2

```

```

58 & + 5.98624*R2*R2 - 1.32311*R2*R2*R0
59 S = S + R0*(P0-1.0) * ( 0.0442*T - 4.6E-4*T2 - 0.004*R0*T
60 & + ( 1.25E-4 - 2.9E-6*T)*P )

```

```

61 C RETURN TO CALLER
62 RETURN
63 END
64

```

1. ACCESSION NUMBER
 CM0077

NOAA FORM 44-9
 (10-72)

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

FORM APPROVED
 O.M.B. NO. 41-R2689
 EXPIRES - AUGUST 1977

NODC INDEX FORM

FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD			
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)		YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE			<input type="checkbox"/> SHIP <input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES				5A. BE-GINNING	19 78	09 20
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA					CODE		5B. ENDING	19 79	02 13
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	9. PROJECT OR EXPEDITION DESIGNATOR			ocs/ocseap			
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074	When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.						

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)		14. USABLE RECORDS			
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE		YEAR	MONTH	DAY	
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14A. BEGINNING DATE	19 78	09 20	
15. TEN-DEGREE SQUARE, SUBSQUARES				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTH YEAR		14B. ENDING DATE	19 79	02 13	
15A. 10°	15B. 5°	15C. 1°		16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSERV.			
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18B. <input checked="" type="checkbox"/> AT 200 M		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Circle approp.)
19A. FROM				*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)		17A. BEGINNING LATITUDE	59	59.3	NORTHERN SOUTHERN
				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE		17B. BEGINNING LONGITUDE	147	47.8	EASTERN WESTERN
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)					21. ANALYSIS PRODUCTS PLANNED						

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

1. ACCESSION NUMBER

NOAA FORM 44-9
(10-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONFORM APPROVED
B. NO. 41-R2689
EXPIRES - AUGUST 1977

NODC INDEX FORM

FOR INSTRUMENT-MEASURED SUBSURFACE CURRENT OBSERVATIONS (NIMSCO)

A
CM 0078
FILE NAME:
IMCURFIL

PART I

2. NAME OF INSTITUTION HOLDING DATA INSTITUTE OF MARINE SCIENCE, UNIV. OF AK		CODE	3. ARCHIVE REF. NO.	4. PLATFORM NAME OR DESIGNATOR	CODE	5. XXXXXX SURVEY PERIOD				
6. COUNTRY OF INSTITUTION HOLDING DATA USA		CODE	*7. PLATFORM TYPE (Check one)		OTHER (Specify)			YEAR	MO.	DAY
8. NAME OF PERSON TO CONTACT FOR FULL DATA PROCESSING INFO. CYDNEY HANSEN, INSTITUTE OF MARINE SCIENCE		<input type="checkbox"/> DRIFTING <input checked="" type="checkbox"/> MOORED <input type="checkbox"/> WINGED <input type="checkbox"/> ANCHORED <input type="checkbox"/> DRIFTING <input type="checkbox"/> HELICOPTER <input type="checkbox"/> UNDERWAY <input type="checkbox"/> ICE ISLAND <input type="checkbox"/> FIXED STRUCTURES		CODE			5A. BE-GINNING	19 78	09	20
8A. ADDRESS - STREET OR POST OFFICE BOX NUMBER UNIVERSITY OF ALASKA		9. PROJECT OR EXPEDITION DESIGNATOR		When applicable, record the international cooperative project or expedition designator of which survey was a part. Examples: IGOSS, CICAR, CIM, CINECA, etc. If survey was primarily a national or local cooperative endeavor, enter project or expedition designator assigned.			5B. ENDING	19 79	02	13
CITY FAIRBANKS	STATE ALASKA	ZIP CODE/COUNTRY 99701/USA	ocs/ocseap							
8B. TELEPHONE	AREA CODE 907	NUMBER 479-7836/479-7074								

PART II

10. INSTRUMENT USED TO COLLECT DATA AANDERAA METERS		10A. MODEL NO. RCM 4	CODE	*12. OBSERVATION TYPE (Check one)		OTHER (Specify)	14. USABLE RECORDS					
*11. INSTRUMENT TYPE (Check one)		OTHER (Specify)		<input type="checkbox"/> ONE INSTANTANEOUS RECORD <input type="checkbox"/> AVERAGE OF SEVERAL INSTANTANEOUS RECORDS <input type="checkbox"/> ANALOG RECORD		CODE	14A. BEGINNING DATE	19 78	09	20		
<input checked="" type="checkbox"/> CURRENT METER <input type="checkbox"/> NEUT. BUOY. FLOAT <input type="checkbox"/> DROGUE <input type="checkbox"/> FREE-FALL DEVICE				13. ARE DATA PROCESSED?		13A. IF NO, WHEN PLANNED?		14B. ENDING DATE		19 79	02	13
15. TEN-DEGREE SQUARE, SUBSQUARES				16. ARE DATA EDITED? (Check one)				17. LOCATION OF CURRENT MET. OBSVS.				
15A. 10°	15B. 5°	15C. 1°		<input type="checkbox"/> YES <input type="checkbox"/> NO				DEGREES	MIN.	SEC.	HEM. (Circle approp.)	
18. OBSERVATION DEPTH (Meters) - Record depth at which observations were taken in "From" space. If the observation series represents a depth range (such as obtained with free-fall devices or neutral buoyancy floats) enter shallower depth in "From" space and deeper depth in "To" space.		18B. XX AT 225M		*19. DATA STORAGE MEDIUM (Check one)		OTHER (Specify)	17A. BEGINNING LATITUDE	59	59	.3	NORTHERN SOUTHERN	
18A. FROM				<input type="checkbox"/> PUNCHED CARDS <input checked="" type="checkbox"/> MAG. TAPE <input type="checkbox"/> ANALOG RECORD <input type="checkbox"/> PAP. TAPE		CODE	17B. BEGINNING LONGITUDE	147	47	.8	EASTERN WESTERN	
20. ANALYSIS PRODUCTS GENERATED (e.g., speed vs direction, speed vs time, progressive vector plots, etc.)				21. ANALYSIS PRODUCTS PLANNED								

PART III (Fill out this section only if no other documentation is forwarded with form)

22. PERTINENT PUBLICATIONS (List publications containing any documentation on instrumentation data reduction and processing, data editing, and analysis relative to the data inventoried.)	
23. INSTRUMENTATION REMARKS (Specify any major modifications to manufacturer's original product, major routine manufacturing features, operation failures during data collection, or other comments helpful in data interpretation.) NO MODIFICATIONS	24. DATA REDUCTION AND PROCESSING REMARKS (Describe briefly the time interval of individual observations of processed data, storage codes of processed data (BCD, EBCDIC, binary, etc.) and other pertinent processing factors)
25. DATA EDIT CRITERIA REMARKS (List criteria applied in editing data to the point of their use for analysis; e.g. constant errors (time or other) applied, depth corrections, interpolations, purging of undesirable frequencies, etc.)	26. GENERAL REMARKS (Enter any other comments useful in interpretation and use of data reported)

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8100550

- 1) File Type: 015
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR7305-7306

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

See correction: sheets

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: Cliff Hartley

ACCESSION/TRACK NO. 8100550/TR7305-7306

TYPE OF TAPE	TAPE NUMBER	LABEL	TRCL	BIKSIZE	PLCEM	REMARKS	# RECORDS
ORIGINATOR	W2073 004303	NL	60	3000	FB	800 BPI 1600 BPI	14,172
DUPLICATE							
REFORMATTED							
FIRST USER							
FINAL USER							
ISK FILE	DSH					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE	DYNDIE* MPD75. FDIST7305		60	3000	FB		14172

Step	Completion date/init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
W2073 ORIGINATOR TAPE #4303	6/23/81	J.B.	4303	1	3000	60	14172
QUADT/SCAN TAPE #	6/22/81		4303	1	3000	60	14172
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHER	07/30/81	CMT	4303	1	3000	60	14172
FIRST USER TAPE #							
WORK DISK FILE	07/30/81	CMT	DISCMT# CDATA FO15T7305	1	3000	60	14172
FINAL USER TAPE #							
FINAL MULCHER	08/06/81	CMT	DISCMT# CDATA FO15T7305	1	3000	60	14172
EDITED DISK FILE	08/09/81	CMT	INDEX MVD 75 FO15T7305	1	3000	60	14172
DATA SET "FINALIZED"							

Corrections 81-0550

- ① Many record type 3s have illegal imbedded blanks in date Min. 01. These blanks were zero filled
- ② Many record type 3s have a zero in pressure field. The zero removed from pressure field.
- ③ Many record type 3s have -8 in electrical conductivity^{field}. The -8 removed from the field.
- ④ Record '2' ^{acode in} Data Source code 0218 corrected from C1 to CI.
- ⑤ File ID corrected to Tracks.
- ⑥ Track 7306 record type '3' corrected to '4'. See Halminski's note - conductivity in wrong record, salinity in wrong record.

810 0550



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235

National Oceanographic Data Center

August 25, 1981

OA/D781/SJH

TO: RD/MPF24 - Dean Dale
FROM: OA/D781 - Sid Halminski
SUBJECT: OCSEAP File Type 015 Current Meter,
TR7305 - TR7306

Please find enclosed copies of NODC parameter check and inventory runs for FTP 015 current meter data from Dr. Royer, RU289. The FID's CM0077 and CM0078 have been assigned NODC track numbers TR7305 and TR7306, respectively.

Several corrections have been made during our processing of the data sets:

1. Many record type 3's had illegal imbedded blanks in the date and time fields. These blanks were zero filled.
2. Many record type 3's in FID CM0077 had a "0" in the pressure field and "-8" in the electrical conductivity field. These were removed and the fields were left blank.
3. In record type 2 an incorrect code "C1" was used for the institution in the Data Source Code No. 0218. This was corrected to "CI".

In addition to the above corrections, all detail type 3 records in FID CM0078 will be changed to type 4 records because salinity values, described in the text record, are reported in the data set. In FID CM0077 no change to the existing record type 3 is necessary since no conductivity values are reported. The only difference between type 3 and 4 records is that the former reports electrical conductivity and the latter reports salinity values. These changes were discussed with Mr. Summer at IMS, University of Alaska, Fairbanks.

The data sets, TR7305 and TR7306 will be considered final processed unless we receive other information that will require further editing of the data.

I have forwarded a copy of the enclosure to Dr. Royer, RU289, for general information.

Enclosure

cc: W. Fischer
M. Crane
T. Royer (w/enclosure)



FILE OF REMOVAL

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OF 50 RECORDS.
FILE CODE OT FILE NUMBER 1

CI	1	R	1	360361365303	324360360367	367361100100	363371362324	305343305331	015CM00771	392METER
		CC	21	100360363371	362100100100	100100100100	100100100100	100100100100	0392	
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100361		1
		R	2	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100362		2
		R	3	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100363		3
		R	4	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
		CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100364		4
		R	5	360361365303	324360360367	367361100100	363371362304	344305100343	015CM00771	392DUE T
		CC	21	325100343310	305100325344	324305331326	344342100327	331326302323	O THE NUMEROUS PROBL	
		CC	41	305324342100	346311343310	100343305324	327100100100	100100100365	EMS WITH TEMP	5
		R	6	360361365303	324360360367	367361100100	363371362153	100342327305	015CM00771	392, SPE
		CC	21	305304100301	325304100100	100100100100	100100100100	100100100100	ED AND	
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100366		6
		R	7	360361365303	324360360367	367361100100	363371362304	311331305303	015CM00771	392DIREC
		CC	21	343311326325	153100343310	305100304301	343301100324	344342343100	TION, THE DATA MUST	
		CC	41	302305100345	311305346305	304100346311	343100100100	100100100367	BE VIEWED WIT	7
		R	8	360361365303	324360360367	367361100100	363371362310	100303301344	015CM00771	392H CAU
		CC	21	343311326325	113100100100	100100100100	100100100100	100100100100	TION.	
		CC	41	100100100100	100100100100	100100100100	100100100100	100100100370		8

5472T	2	04/22/31	UTL2	REPORT	771101	PAGE	2				
			R	9	360361365303	324360360367	367361100100	363371362342	344302321305	015CM00771	392SUBJE
			CC	21	302343311345	305100321344	304307305324	305325343342	100310301345	CTIVE JUDGEMENTS HAV	
			CC	41	305100302305	305325100344	342305304100	346100100100	100100100371	E BEEN USED W	9
			R	10	360361365303	324360360367	367361100100	363371362310	311323305100	015CM00771	392HILE
			CC	21	305304311343	311325307100	100100100100	100100100100	100100100100	EDITING	
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361360		10
			R	11	360361365303	324360360367	367361100100	363371362343	310305342305	015CM00771	392THESE
			CC	21	100304301343	301113100100	100100100100	100100100100	100100100100	DATA.	
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361361		11
			R	12	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
			CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361362		12
			R	13	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
			CC	21	343310311342	100324305343	305331100304	326305342100	325326343100	THIS METER DOES NOT	
			CC	41	310301345305	100301100303	326325304344	303100100100	100100361363	HAVE A CONDUCT	13
			R	14	360361365303	324360360367	367361100100	363371362343	311345311343	015CM00771	392TIVIT
			CC	21	350100325331	100100100100	100100100100	100100100100	100100100100	Y OK	
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361364		14
			R	15	360361365303	324360360367	367361100100	363371362327	331305342342	015CM00771	392PRESS
			CC	21	344331305100	342305325342	326331113100	100100100100	100100100100	URE SENSOP.	
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361365		15
			R	16	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
			CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361366		16
			R	17	360361365303	324360360367	367361100100	363371362100	100100100100	015CM00771	392
			CC	21	100100100100	100100100100	100100100100	100100100100	100100100100		
			CC	41	100100100100	100100100100	100100100100	100100100100	100100361367		

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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	"15" AS DESIGNATED BY OSCEAP AND NODC. THERE ARE NO DEVIATIONS FROM THIS TYPE, EXCEPT:			1. col 45-49 depth in meters (I5 to 1/10ths) 2. col 59-53 salinity in 0/00 (I4 to 1/100ths)	

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 (✓)	
Aanderaa RCM4 Meter 392	Aug. 1979		NRCC	1 year					
Aanderaa RCM4 Meter 1770	July 1980		NRCC	1 year					

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8100550	F015	TR7306	0081	31I7	317F	1978/09/20	MS-C	314859
8100550	F015	TR7292	0081	31I7	3199	1979/02/13	MS-D	314845
8100550	F015	TR7293	0081	31I7	3199	1979/02/13	MS-D	314846
8100550	F015	TR7294	0081	31I7	3199	1979/02/14	MS-D	314847
8100550	F015	TR7295	0081	31I7	3199	1979/02/13	MS-D	314848
8100550	F015	TR7296	0081	31I7	3199	1979/02/13	MS-D	314849
8100550	F015	TR7297	0081	31I7	3199	1979/04/05	MS-D	314850
8100550	F015	TR7298	0081	31I7	3199	1978/09/17	HE-C	314851
8100550	F015	TR7299	0081	31I7	3199	1978/09/17	HE-C	314852
8100550	F015	TR7300	0081	31I7	3199	1978/09/17	HE-C	314853
8100550	F015	TR7301	0081	31I7	3199	1978/09/21	HE-C	314854
8100550	F015	TR7302	0081	31I7	3199	1978/09/21	HE-C	314855
8100550	F015	TR7303	0081	31I7	3199	1978/09/20	MS-C	314856
8100550	F015	TR7304	0081	31I7	3199	1978/09/20	MS-C	314857
8100550	F015	TR7305	0081	31I7	3199	1978/09/20	MS-C	314858

(15 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8100550	F015	TR7306	317F	6	7067	78/09/20	79/02/01
8100550	F015	TR7292	3199	7	8863	79/02/13	79/08/17
8100550	F015	TR7293	3199	8	9664	79/02/13	79/08/17
8100550	F015	TR7294	3199	5	5959	79/02/14	79/06/01
8100550	F015	TR7295	3199	5	6352	79/02/13	79/06/01
8100550	F015	TR7296	3199	1	645	79/02/13	79/02/13
8100550	F015	TR7297	3199	1	103	79/04/05	79/04/05
8100550	F015	TR7298	3199	5	6206	78/09/17	79/02/16
8100550	F015	TR7299	3199	5	6203	78/09/17	79/02/16
8100550	F015	TR7300	3199	5	5610	78/09/17	79/02/16
8100550	F015	TR7301	3199	5	6148	78/09/21	79/02/16
8100550	F015	TR7302	3199	6	7111	78/09/21	79/02/01
8100550	F015	TR7303	3199	6	7079	78/09/20	79/02/01
8100550	F015	TR7304	3199	6	7065	78/09/20	79/02/01
8100550	F015	TR7305	3199	6	7105	78/09/20	79/02/01

(15 rows affected)