13.4:04

DATA DOCUMENTATION FORM

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U.S. DEPARTMENT OF COMMERCE
ATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER,
RECORDS SECTION
WASHINGTON, DC 20235

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

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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

## A. ORIGINATOR IDENTIFICATION

#### THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

THIS SECTION MOST BE COM	LETED BY DONOR	FOR ALL L	AIA IKANSMI	IALS		
Naval Oceanographic Oceanographic Brand Washington, D.C. 2	office th Code 4331	ATORY, OF	R ACTIVITY WIT	H WHICH SUBM	ITTED DATA AF	RE ASSOCIATED
2. EXPEDITION, PROJECT, ODATA WERE COLLECTED ASW Survey	R PROGRAM DURING	WHICH		343408		TO IDENTIFY
4. PLATFORM NAME(S) USNS WILKES	5. PLATFORM TYPE (E.G. SHIP, BUO SHIP		6. PLATFORM A NATIONALIT			res
USNS WILKES USNS KANE	SHIP		PLATFORM	OPERATOR USA	FROM: MO/PAY/YR 10/5/73 10/10/73 11/16/73	10/15/73 10/14/73 11/29/73
B. ARE DATA PROPRIETARY  X NO YES  IF YES, WHEN CAN, TH  FOR GENERAL USE?	EY BE RELEASED		SE DARKEN ALL NINED IN YOUR		JARES IN WHICH	
9. ARE DATA DECLARED NA PROGRAM (DNP)?  (I.E., SHOULD THEY BE IN DATA CENTERS HOLDINGS TIONAL EXCHANGE?)  NO XYES PAR	CLUDED IN WORLD	100° 120° 10° 278 278 242 242 242 242 242 242 242 242 242 24	201 232 232 237 248 237 248 237 248 237 248 248 257 258 258 258 258 258 258 258 258 258 258	120° 190° 89° 80° 120° 120° 120° 120° 120° 120° 120° 12	14-1190	224 (1) 279 1.57 279 1.57 279 1.57 279 1.51 200
10. PERSON TO WHOM INQUIRI DATA SHOULD BE ADDRES PHONE NUMBER (AND ADD THAN IN ITEM-I)  Griffith H. Knoop	SED WITH TELE-	062 01 322 7 240 361 377 460 460 460 501 517	021 016 7120 1315 7 356 6 3511 7 327 223 7 423 7 425 7 425		300 335 300 300	037 0° 511 320 0° 516 320 0° 517 320 20° 347 40° 511 500 60° 511 500 60° 513 513 513
NCAA FORM 24-13		100" 126" 1	40" 160" 180" 160" 140"	1201 1000 800 800	40. 20. 0. 20. 4	0. 64. 86. 100-

# 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
Depth	Meter	Plessey Models 9040 and 9006 SVSTD's	Instrument Checked with unprotected reversing thermometers using a Niskin Sampler	Values averaged for each one meter increment. Data corrected for surface offset and density effect
Salinity	%o .	Plessey Models 9040 and 9006 SVSTD's	Data corrected based on samples collected simultaneously with a Niskin sampler and analyzed with an inductive salinometer (Beckman model RS-7B)	SVSTD salinity values averaged for one meter increments and corrected based on best fit curves for Niskin - SVSTD salinity plotted versus depth
Temperature	°C	Plessey Models 9040 and 9006 SVSTD's	Data corrected based on protected reversing thermometer values collected simultaneously with a Niskin Sampler	SVSTD temperature values averaged for one meter increments and corrected based on best fit curves for Niskin-SVSTD temperature plotted versus observed temperature
Sound Velocity	M/sec	Plessey Models 9040 and 9006 SVSTD's	n/A	SVSTD sound velocity averaged for one meter increments. No correction applied.

## C. DATA FORMAT

COMPLETE T	HIS SECTION	FOR PUNCHED CARDS	OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.
1. LIST RECORD TYPES			L OF YOUR FILE
4. Data Recor 5. 'Nines' Re	ord No. 2 ord No. 3 ds cord	For each oce - At end of each	
	·		
2. GIVE BRIEF DESCRI	PTION OF FIL	E ORGANIZATION	•
record. Each Records at app	ocean stat roximately	ion contains the one meter ocea	by an EOF mark. There is no tape label ree Header Records followed by Data n depth increments. The last record Each record is 120 characters 'Bytes'
	UTER SPECIA PHONE NUME	BER Gerald Will:	
ADDRESS _	Code 3423	1 Naval Oceanog	raphic Office
COMPLETE THIS	X BCD ASCII	BINARY BECDIC	9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK
6. NUMBER OF TRACKS	S XX SEVEN		
(CHAMPLS)	NINE		11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on - station Data
7. PARITY  8. DENSITY	ODD XX EVEN		SVSTD Code 3433 Naval Oceanographic Office
	200 BPI	1600 BPI	12. PHYSICAL BLOCK LENGTH IN BYTES 20
	XX 800 8PI		13. LENGTH OF BYTES IN BITS

# RECORD FORMAT DESCRIPTION

RECORD NAME First Header Record

NOAA FORM 24-13

1.20 Bytes

14. FIELD NAME	15. POSITION	16. LEN	GTH	17. ATTRIBUTES	18. USE AND MEANING
	FROM-1 MEASURED IN Bytes		<del></del>		
		NUMBER	UNITS		·
Blank	1	1	Bytes	Ai	None
Tape I.D.	2	3	Bytes	А3	I.D. for original mag. tape
Version No.	5	2	Bytes	12	I.D. for original mag. tape
Sequence No.	7	3	Bytes	13	I.D. for original mag. tape
Operation No.	10	10	Bytes	F10.0	Navoceano cruise no.
Ship's Name	20	10	Bytes	110	
Month	30	2	Bytes	12	Date of oceano station
Day	32	2	Bytes	12	Day of ocean station
Year	34	2	Bytes	12	Year of ocean station
Consecutive Day	36	3	Bytes	13	Julian date of station
Depth Sensor	39	5	Bytes	15	Serial no. of unit
Temperature Sensor	44	5	Bytes	15	Serial no. of unit
Salinity Sensor	49	5	Bytes	15	Serial no. of unit
SND. Vel. Sensor	54	5	Bytes	15	Serial no. of unit
Cast Direct.	59	4	Bytes	Α4	Up or Down
Station I.D.	63	3	Bytes	13	Assigned station no.
Station Consec.	66	3	Bytes	13	Consecutive station no.
Start Time	69	4	Bytes	14	Time at start of cast
End Time	73	4	Bytes	14	Time at end of cast
Blank	77	44	Bytes	7A6,A2	None
		. }			
	ł				

RECORD FORMAT DESCRIPTION

RECORD NAME <u>Second Header Record</u> 120 Bytes

14. FIELD NAME	15. POSITION FROM - 1 MEASURED	}	GTH	17. ATTRIBUTES	18. USE AND MEANING
·	IN <u>Bytes</u> (e.g., bits, bytes)	NUMBER	UNITS		
Blank	1	1	Bytes	A1	None
I.D.	2	5	Bytes	<b>A</b> 5	'Posit'
Consec. Day	7	4	Bytes	14	Julian day at start
Start Time	11	5	Bytes	15	24 hr. clock in zulu time
Blank	16	1	Bytes	<b>A1</b> .	None
Hemisphere, Lat.	17	1	Bytes	. A1	''N' or 'S' (Start of cast)
Degrees Lat.	18	2	Bytes	12	Lat. at start of cast
Minutes Lat	20	4	Bytes	F3.1	Lat. at strat of cast
Blank	24	1	Bytes	Al	None
Hemisphere, Long	. 25	1	Bytes	Al	'E' or 'W' (start)
Degrees, Long.	26	3	Bytes	13	Long. at start of cast.
Ninutes, Long.	29	4	Bytes	F4.1	Long. at start of cast.
Blank	33	1	Bytes	Al	None
Consec. Day	34	4	Bytes	14	Julian day at end
End time	38	5	Bytes	15	24 hr. clock in zulu time
Blank	43	1	Bytes	Al	None
Hemisphere, Lat.	44	1	Bytes	<b>A</b> 1	'N' or 'S' (end of cast)
Degrees, Lat.	45	2	Bytes	12	Lat. at end of cast
Minutes, Lat.	47	4	Bytes	F4.1	Lat. at end of cast
Blank	51	1	Bytes	Al	None
Hemisphere, Long	52	1	Bytes	Al	'E' or 'W' (end of cast)
Degrees, Long.	53	3	Bytes	F4.1	Long. at end of cast
Minutes, Long.	56	4	Bytes	Al	None
BC Chart I.D.	62	4	Bytes	14	Bottom cojtour chart no.
BC Chart Hemis.	66	1	Bytes	Al	'N' or 'S'
Blank	67	1	Bytes	A1	None

RECORD NAME Second Header Record con't 120 Bytes 15. POSITION 16. LENGTH FROM-1 MEASURED IN Bytes 14. FIELD NAME 17. ATTRIBUTES 18. USE AND MEANING NUMBER UNITS (e.g., bita, bytes) Marsden Square 68 **Eytes** 3 **I**3 Marsden Square Number Degree Square 71 3 Bytes 13 ASW Area I.D. 74 3 Bytes 13 ASW Area I.D.

120 Bytes

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes	4	GТН	17. ATTRIBUTES	18. USE AND MEANING
	(e.g., bits, bytes)	NUMBER	UNITS		
Blank	1	1	Bytes	Al	None
I.D.	2	5	Bytes	<b>A</b> 5	'WETHR'
Blank	7	11	Bytes	A6,A5	None
Depth	18	8	Bytes	F8.2	Water depth, meters
Waves ·	26	8	Bytes	F8.2	NODC Code
Wind	34	8	Bytes	F8.2	NODC Code
Pressure	42	8	Bytes	F8.2	Atmos. Press. (MB-1000)
Dry Bulb	50	8	Bytes	F8.2	Degrees C
Wet Bulb	58	8	Bytes	F8.2	Degrees C
Weather	66	8 .	Bytes	F8.2	NODC Code
Blank	74	47	Bytes	7A6,A5 ·	None
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NOAA FORM 24-13				<b>-</b>	

# RECORD FORMAT DESCRIPTION RECORD FORMAT DESCRIF

14. RIELD NAME	15. POSITION FROM - 1 MEASURED	İ	GTH	17. ATTRIBUTES	18. USE AND MEANING
	IN	NUMBER	UNITS		
Blank	1	2	Bytes	A1	None
Depth	3	8	Bytes	F8.1	Obs. Depth (meters)
Temperature Status	11	1	Bytes	11	Sensor on or off ('1' or '0')
Temperature	12	6	Bytes	F6.2	Degrees C
Salinity Status	18	1	Bytes	11	On or off ('1' or '0')
Salinity	19	6	Bytes	F6.2	Obs. salinity (%o)
SND. Vel. Status	25	1	Bytes	11	On or off ('1' or 00')
SND. Vel	26	7	Bytes	F7.1	Obs. SND Vel (meters/sec)
SND Vel.	33	7	Bytes	F7.1	Calculated SND Vel. (M/S)
SND Vel. Flag	40	5	Bytes	F5.1	Difference between observed and calculated SND. Vel. If difference is greater than O.S. M/S
Sigma-T	45	8	Bytes	F8.3	
Blank	53	1	Bytes	<b>A</b> 1	None
Inversion Flag	54	1	Bytes	11	2 = Sigma-T less than previous Sigma-T, otherwise blank
Specific Volume	55	8	Bytes	F8.0	•
Corrected Depth	63	8	Bytes	F8.1	Meters

## 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 ("\(\superstant{\psi}''\)) 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 DATE OF LAST		INSTRUMENT WAS	CALIBRATED BY	CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRU- MENT IS
(MFR., MODEL NO.)	CALIBRATION	YOUR ORGANIZATION	OTHER ORGANIZATION (GIVE NAME)	AT FIXED	BEFORE OR After Use	BEFORE AND AFTER USE	ONLY AFTER REPAIR	ONLY WHEN NEW	NOT CALI- BRATE
		(√)		(√)	(√)	(√)	(√)	(√)	(√)
Plessey Models 9040 and 9006SVSTI	's Unknown	· *					·*		
	*Niskin compa	rison water sa	mples, tempera	ures, and	thermometr	ic depths	re colle	cted	
	NT-1 ole-1	ion. SVSTD sa data. Correct cted thermomet	ion curves are	lundated a	s necessary	. SVSTD a	aptn is m	burrori	zu
	15 meters			·					
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NOAA FORM 24

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DATA DOCUMENTATION FORM

U.S. DEPARTMENT OF COMMERCE
NAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
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FORM APPROVED O.M.B. No. 41-R2651 EXPIRES 1-81

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## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMP	LETED BY DONOR	FOR ALL	ATA TRANSMIT	TTALS		
Naval Oceanographic Oceanographic Branc Washington, D.C. 2	Office	ATORY, OI	R ACTIVITY WIT	н жысн ѕивм	ITTED DATA AF	RE ASSOCIATED
2. EXPEDITION, PROJECT, O DATA WERE COLLECTED	R PROGRAM DURING	WHICH		BER(S) USED E IS SHIPMENT 343407	BY ORIGINATOR	TO IDENTIFY
ASW Survey				343408		
4. PLATFORM NAME(S)	5. PLATFORM TYPE (E.G., SHIP, BUO SHIP		6. PLATFORM A NATIONALIT	ND OPERATOR Y(IES)	7. DA	TES
USNS WILKES	Suit		PLATFORM	OPERATOR	FROM: MODAY,YR	TO: MO/DAY/YR
USNS KANE	SHIP		USA	USA	10/5/73 10/10/73 11/16/73	10/15/73 10/14/73 11/29/73
8. ARE DATA PROPRIETARY	EY BE RELEASED		SE DARKEN ALI AINED IN YOUR		ERE COLLECTE	
PROGRAM (DNP)?  (I.E., SHOULD THEY BE INDATA CENTERS HOLDINGS TIONAL EXCHANGE?)  NO XYES PART	FOR GENERAL USE? YEAR MONTH.  ARE DATA DECLARED NATIONAL PROGRAM (DNP)?  (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA-			120° 180° 80° 80° 223 223 224 225 225 225 225 225 225 225 225 225	677 tes 677 tes 1097 077 301 134	282
Griffith H. Knoop		201 997 40 415 40 425 415 425 415 120 120 1	1337   123   124   125   126	120 100 80 80	400.40	603 198 497 497 557 470 500 507 511 500 607 534 573 504 607 1007

# 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 :
Depth	Meter	Plessey Models 9040 and 9006 SVSTD's	Instrument Checked with unprotected reversing thermometers using a Niskin Sampler	Values averaged for each one meter increment. Dat corrected for surface offset and density effect
Salinity	<b>%o</b> :	Plessey Models 9040 and 9006 SVSTD's	Data corrected based on samples collected simultaneously with a Niskin sampler and analyzed with an inductive salinometer (Beckman model RS-7B)	SVSTD salinity values averaged for one meter increments and corrected based on best fit curves for Niskin - SVSTD salinity plotted versus depth
Temperature	°c	Plessey Models 9040 and 9006 SVSTD's	Data corrected based on protected reversing thermometer values collected simultaneously with a Niskin Sampler	SVSTD temperature values averaged for one meter increments and corrected based on best fit curves for Niskin-SVSTD temperature plotted versus observed temperature
Sound Velocity	M/sec	Plessey Models 9040 and 9006 SVSTD's	N/A	SVSTD sound velocity averaged for one meter increments. No correction applied.

## 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

1. Header Reco	ord No. 1	· · · · · · · · · · · · · · · · · · ·	
2. Header Reco			·
		For each oce	an station
4. Data Record			
5. 'Nines' Rec			
1		- At end of each	tape
		•	
	-		
		•	
L	<del></del>	<del></del>	
2. GIVE BRIEF DESCRIF	TION OF FIL	E ORGANIZATION	<u> </u>
			•
			by an EOF mark. There is no tape label
			ree Header Records followed by Data
			n depth increments. The last record
	n is a 'Ni	ines' Records.	Each record is 120 characters 'Bytes'
long.			
•			
		•	
			•
3. ATTRIBUTES AS EXP	PESSED IN	PL-1	ALGOL COBOL
3. ATTRIBUTES AS EAT	NESSED IN	XX FORTRAN	LANGUAGE
			·
4. RESPONSIBLE COMPL			iomo (22 (107
NAME AND	PHONE NUM	SER Gerald Will	
NAME AND	PHONE NUM		
NAME AND ADDRESS	PHONE NUMB Code 3423	BER <u>Gerald Will</u> I Naval Oceanog	caphic Office
NAME AND ADDRESS	PHONE NUMB Code 3423	GER Gerald Will Naval Oceanog DATA ARE ON MAGNE	raphic Office  TIC TAPE  9. LENGTH OF INTER-
NAME AND ADDRESS _ COMPLETE THIS S	PHONE NUMB Code 3423	BER <u>Gerald Will</u> I Naval Oceanog	Caphic Office
NAME AND ADDRESS _ COMPLETE THIS S	PHONE NUMB Code 3423 SECTION IF C	GER Gerald Will Naval Oceanog DATA ARE ON MAGNE	raphic Office  TIC TAPE  9. LENGTH OF INTER-
NAME AND ADDRESS _ COMPLETE THIS S	PHONE NUMB Code 3423	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	Taphic Office  TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK
NAME AND ADDRESS _ COMPLETE THIS S	PHONE NUMB Code 3423 SECTION IF C	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH
NAME AND ADDRESS _ COMPLETE THIS S 5. RECORDING MODE	PHONE NUMBER CODE 3423 SECTION IF COMMERCE ASCIL	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	Taphic Office  TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK
NAME AND ADDRESS _  COMPLETE THIS S  5. RECORDING MODE	PHONE NUMB Code 3423 SECTION IF C	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  XX OCTAL 17
NAME AND ADDRESS _  COMPLETE THIS S  5. RECORDING MODE	PHONE NUMBER CODE 3423 SECTION IF COMMERCE ASCIL	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
NAME AND ADDRESS _ COMPLETE THIS S 5. RECORDING MODE	PHONE NUME Code 3423 SECTION IF D  X BCD ASCII	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)	PHONE NUME Code 3423 SECTION IF D  X BCD ASCII	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS
NAME AND ADDRESS _  COMPLETE THIS S  5. RECORDING MODE	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  XX SEVEN  NINE	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD
NAME AND ADDRESS _  COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  XX SEVEN  NINE	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)  7. PARITY	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  XX SEVEN  NINE	GER Gerald Will I Naval Oceanog DATA ARE ON MAGNE	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  NINE ODD XX EVEN	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)  7. PARITY	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  NINE ODD XX EVEN 200 BPI	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)  7. PARITY	PHONE NUME Code 3423 SECTION IF D  X BCD ASCII  NINE ODD XX EVEN 200 BPI	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433 Naval Oceanographic Office  12. PHYSICAL BLOCK LENGTH IN BYTES
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)  7. PARITY	PHONE NUME Code 3423 SECTION IF C  X BCD ASCII  NINE ODD XX EVEN 200 BPI	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433 Naval Oceanographic Office
NAME AND ADDRESS _ COMPLETE THIS S  5. RECORDING MODE  6. NUMBER OF TRACKS (CHANNELS)  7. PARITY	PHONE NUME Code 3423 SECTION IF D  X BCD ASCII  NINE ODD XX EVEN 200 BPI	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433 Naval Oceanographic Office  12. PHYSICAL BLOCK LENGTH IN BYTES  20  13. LENGTH OF BYTES IN BITS
NAME AND ADDRESS _ COMPLETE THIS S 5. RECORDING MODE 6. NUMBER OF TRACKS (CHANNELS) 7. PARITY	PHONE NUME Code 3423 SECTION IF D  X BCD ASCII  NINE ODD XX EVEN 200 BPI	BER Gerald Will I Naval Oceanog  DATA ARE ON MAGNET BINARY BEBCDIC	TIC TAPE  9. LENGTH OF INTER- RECORD GAP (IF KNOWN) XX 3/4 INCH  10. END OF FILE MARK  11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)  ODAS on — station Data SVSTD Code 3433 Naval Oceanographic Office  12. PHYSICAL BLOCK LENGTH IN BYTES  20

RECORD FORMAT DESCRIPTION

RECORD NAME First Header Record

NOAA FORM 24-13

1.20 Bytes

4. FIELD NAME	FROM-1 MEASURED	1	GTH	17. ATTRIBUTES	18. USE AND MEANING
	IN Bytes (e.g., bits, bytes)	NUMBER	UNITS		
Blank	1	1	Bytes	Ai	None
Tape I.D.	2	3	Bytes	A3	I.D. for original mag. tape
Version No.	5	2	Bytes	12	I.D. for original mag. tape
Sequence No.	7	3	Bytes	13	I.D. for original mag. tape
Operation No.	10	10	Bytes	F10.0	Navoceano cruise no.
Ship's Name	20	10	Bytes	110	
Month	30	2	Bytes	12	Date of oceano station
Day	32	2	Bytes	12	Day of ocean station
Year	3,4	2	Bytes	12	Year of ocean station
Consecutive Day	36	3	Bytes	13	Julian date of station
Depth Sensor	39	5	Bytes	15	Serial no. of unit
Temperature Sensor	44	5	Bytes	15	Serial no. of unit
Salinity Sensor	49	5.	Bytes	15	Serial no. of unit
SND. Vel. Sensor	54	5	Bytes	15	Serial no. of unit
Cast Direct.	59	4	Bytes	Λ4	Up or Down
Station I.D.	63	3	Bytes	13	Assigned station no.
Station Consec.	66	3	Bytes	13	Consecutive station no.
Start Time	69	4	Bytes	14	Time at start of cast
End Time	73	4	Bytes	14	Time at end of cast
Blank	77	44	Bytes	7A6,A2	None
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	<del> </del>				

1	RECORD FORMAT DESCRIPTION										
RECORD NAME Second Header Record 120 Bytes											
'	14. FIELD NAME	15. POSITION FROM - 1 MEASURED		GТН	17. ATTRIBUTES	18. USE AND MEANING					
		IN <u>Bytes</u> (e.g., bits, bytes)	NUMBER	UNITS							
-	Blank	1	1	Bytes	A1	None					
	I.D.	2	5	Bytes	<b>A</b> 5	'Posit'					
!	Consec. Day	7	4	Bytes	14	Julian day at start					
	Start Time	11	5	Bytes	15	24 hr. clock in zulu time					
:	Blank	16	1	Bytes	A1	None					
	Hemisphere, Lat.	17	1	Bytes	. A1	''N' or 'S' (Start of cast)					
	Degrees Lat.	18	. 2	Bytes	12	Lat. at start of cast					
	Minutes Lat	20	4	Bytes	F3.1	Lat. at strat of cast					
	Blank	24	1	Bytes	A1	None					
	Hemisphere, Long	25	1	Bytes	Al	'E' or 'W' (start)					
•	Degrees, Long.	26	3	Bytes	13	·Long. at start of cast.					
	Ninutes, Long.	29	4	Bytes	F4.1	Long. at start of cast.					
	Blank	33	1	Bytes	A1	None					
	Consec. Day	34	4	Bytes	14	Julian day at end					
	End time	38	5	Bytes	15	24 hr. clock in zulu time					
	Blank	43	1	Bytes	<b>A</b> 1	None					
.	Hemisphere, Lat.	44	1	Bytes	<b>A1</b> .	'N' or 'S' (end of cast)					
	Degrees, Lat.	45	2	Bytes	12	Lat. at end of cast					
	Minutes, Lat.	. 47	4	Bytes	F4.1	Lat. at end of cast					
	Blank	51	1	Bytes	A1	None					
	Hemisphere, Long	52	1	Bytes	<b>A</b> 1	'E' or 'W' (end of cast)					
	Degrees, Long.	53	3	Bytes	F4.1	Long. at end of cast					
	Minutes, Long.	56	4	Bytes	Al	None					
	BC Chart I.D.	62	4	Bytes	14	Bottom cojtour chart no.					
į	BC Chart Hemis.	. 66	1	Bytes	Al	'N' or 'S'					
į	Blank	67	1	Bytes	Al	None					

S V	15. POSITION	16. LEN	GTH	17. ATTRIBUTES	18. USE AND MEANING
	FROM-1 MEASURED IN Bytes		r		
	(e.g., bits, bytes)	NUMBER	UNITS		
Marsden Square Number	68	3	Bytes	13	Marsden Square
Degree Square	71	3	Bytes	13	
ASW Area I.D.	74	3	Bytes	13	ASW Area I.D.
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NOAA FORM 24-13

KECORD FORMAT DESCRIPTION

RECORD NAME Third Header Record

120 Bytes

THE FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes	II6. LEN	GTH	17. ATTRIBUTES	18. USE AND MEANING
	IN Bytes	NUMBER	UNITS		
Blank	1	1	Bytes	A1	None
1.D.	2	5	Bytes	<b>A</b> 5	'WETHR'
Blank	7	11	Bytes	A6,A5	None
Depth	18	8	Bytes	F8.2	Water depth, meters
Waves	26	8	Bytes	F8.2	NODC Code
Wind	34	8	Bytes	F8.2	NODC Code
Pressure	42	8	Bytes	F8.2	Atmos. Press. (MB-1000)
Dry Bulb	50	8	Bytes	F8.2	Degrees C
Wet Bulb	· 58	8 .	Bytes	F8.2	Degrees C
Weather	66	8 .	Bytes	F8.2	NODC Code
Blank	74	47	Bytes	7A6,A5 ·	None
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NOAA FORM 24-13					

RECORD NAME Date Record 120 Bytes

FROM-1 MEASURED	1	СТН	17. ATTRIBUTES	18. USE AND MEANING
(e.g., bits, bytes)	NUMBER	UNITS		
1	2	Bytes	A1	None .
3	8	Bytes	F8.1	Obs. Depth (meters)
11	1	Bytes	11	Sensor on or off ('1' or '0')
12	6	Bytes	F6.2	Degrees C
18	1	Bytes	11	On or off ('1' or 'Q')
19	6	Bytes	F6.2	Obs. salinity (%o)
25	1	Bytes	11	On or off ('1' or 30')
26	7	Bytes	F7.1	Obs. SND Vel (meters/sec)
- 33	7	Bytes	F7.1	Calculated SND Vel. (M/S)
40	5 .	Bytes	F5.1	Difference between observed and calculated SND. Vel. If difference is greater than O.S. M/S
45	8	Bytes	F8.3	
53			<b>A1</b>	None
54			11	2 = Sigma-T less than previous Sigma-T, otherwise blank
55	8	Bytes	F8.0	
63	8	Bytes	F8.1	Meters
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	FROM-1 MEASURED IN	FROM-1 MEASURED IN NUMBER  1 2 3 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEASURED   NUMBER   UNITS	FROM-1   NUMBER   UNITS

## 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 ("\sqrt{"}") 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 WAS	CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					
INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	YOUR ORGANIZATION	OTHER ORGANIZATION (GIVE NAME)	AT FIXED	BEFORE OR AFTER USE	BEFORE AND AFTER USE	ONLY AFTER REPAIR	ONLY WHEN NEW	NOT CALI- BRATE	
		(√)		(√)	(√)	(√)	(√)	(√)	(√)	
Plessey Models 9040 and 9006SVSTI	's Unknown						*			
	*Niskin compa	rison water sa	mples, tempera	tures, and	thermometr	ic depths a	re colle	cted risons		
	with Niskin with unprote	data Correct	ion curves are er depths and	lundated as	s necessary	t. SVSTD de	eptn is m	pnitor	30	
	15 meters									
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áccNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7400655	F022	TT3222	9999	3107	31KN	1973/10/13	343408	285267
7400655	F022	<b>TT3223</b>	9999	3107	319W	1973/11/16	343413	285268
7400655	F022	<b>TT3224</b>	9999	3107	319W	1973/11/18	343413	285269
7400655	F022	<b>TT3225</b>	9999	3107	31KN	1973/09/28	NULL	285270
7400655	F022	TT3226	9999	3107	319W	1973/11/26	343413	285271
7400655	F022	<b>TT3227</b>	9999	3107	319W	1973/11/22	343413	285272
7400655	C022	319565	9999	3107	31KN	1973/10/13	TT3222	285261
7.400655	C022	319566	9999	3107	319W	1973/11/16	TT3223	285262
.7400655	C022	319567	9999	3107	319W	1973/11/18	TT3224	285263
7400655	C022	319568	9999	3107	31KN	1973/09/28	TT3225	285264
7400655	C022	319569	9999	3107	319W	1973/11/26	TT3226	285265
7400655	C022	319570	9999	3107	319W	1973/11/22	TT3227	285266

(12 rows affected)

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	accNo	fleA	refNo	ship	staCnt	recCnt	startD	ate	endD	ate	<b>)</b>
•											
	7400655	F022	TT3222	31KN	3	2069	Oct 13	1973	Oct	14	1973
	7400655	F022	TT3223	319W	7	3720	Nov 16	1973	Nov	18	1973
	7400655	F022	TT3224	319W	15	5681	Nov 18	1973	Nov	22	1973
	7400655	F022	TT3225	31KN	7	5729	Sep 28	1973	Oct	12	1973
	7400655	F022	TT3226	319W	14	5773	Nov 26	1973	Nov	29	1973
	7400655	F022	<b>TT3227</b>	319W	10	5385	Nov 22	1973	Nov	26	1973
	7400655	C022	319565	31KN	3	6	Oct 13	1973	Oct	14	1973
	7400655	C022	319566	319W	7	15	Nov 16	1973	Nov	18	1973
	7400655	C022	319567	319W	15	29	Nov 18	1973	Nov	22	1973
	7400655	C022	319568	31KN	7	18	Sep 28	1973	Oct	12	1973
	7400655	C022	319569	319W	14	27	Nov 26	1973	Nov	29	1973
	7400655	C022	319570	319W	10	21	Nov 22	1973	Nov	26	1973

(12 rows affected)