

Unique No.: 192829

Date of Entry: 06/08/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000098 Reference No.: TV5150
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 07 - 5.25-inch Floppy Diskette

Exchange Format: E018 - STD/CTD (F022)

Processing Format: F022 - CTD/STD

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

Country/Institute Code: 3124 Country/Platform Code: 32GY

Platform Type (DINDB): 09 - Ship Orig. Cruise ID: 90G04

Cruise Start Date: 02/19/90 Project Code:

Cruise End Date: 02/23/90 Data Use Code (DUC): 3

Number of Stations: 13 Number of Records: 176

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 26 Meaning: Gulf of Mexico

 Code 2: Meaning:

 Code 3: Meaning:

DINDB Transaction Date:

ACCESSION NO. 9000098 FILETYPE C100 F022 TRACK NO. _____

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE <u>DISKETTE</u>	<u>5-31-90</u>	<u>FJM</u>					
DUPLICATE TAPE <u>*</u>	<u>6-1-90</u>	<u>FJM</u>		<u>2</u>			
REFORMATTED TAPE	<u>6-6-90</u>	<u>R.P.S.</u>	<u>W12166 **</u>	<u>1</u>	<u>120</u>	<u>12000</u>	<u>176</u>
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * DAMUS DISK !

C100 = DNODC * MURPH STA.
F022 = DNODC * MURPH CTD.

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

** LABEL : DNODC * MURPHY/CTDOUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

TEXAS A&M UNIVERSITY
DEPARTMENT OF OCEANOGRAPHY
COLLEGE STATION, TX 77843

90 00098

Technical Support Services Group

May 21, 1990

MEMORANDUM

TO: Francis Mitchell

FROM: David Murphy

DM

SUBJECT: NODC data submission

REPLACEMENT

Here is another data set from our cruise 90G04. This is to replace the set that Doug Biggs sent while I was out sick. This format should be the same as our earlier submission except that sigma T is added to the CTD files. This disk includes CTD casts and accompanying discrete data. Give me a call if you have any problems with this data. (409) 845 7214



DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

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

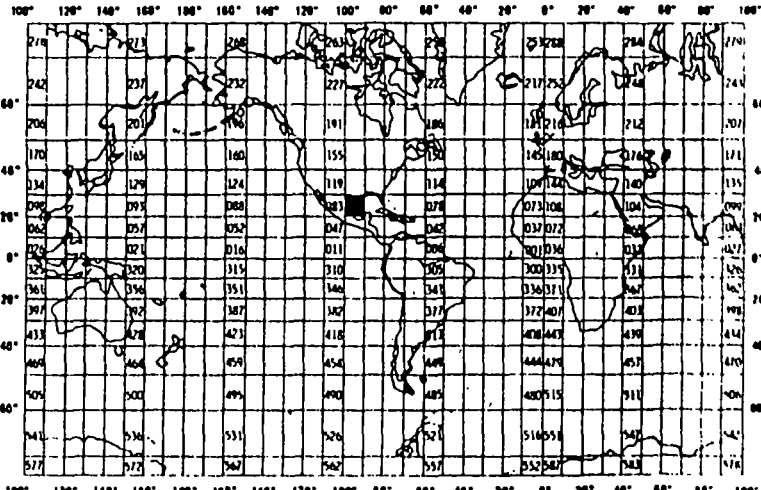
FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

(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

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Department of Oceanography Texas A&M University College Station, Texas 77843 ATTN David Murphy			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED RV Gyre cruise 90G4		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 90G4	
4. PLATFORM NAME(S) RV Gyre	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR FROM: MO/DAY/YR TO: MO/DAY/YR USA USA 02/19/90 02/24/90	
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 checked="" type="checkbox"/> NO <input 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) Same as item-1 409 845 7214			

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
Temperature	°C	Sea Bird CTD model SBE 9	N/A	Values averaged over 1 meter intervals
		XBT - Sippican	N/A	None
Salinity	PSU	Sea Bird CTD model SBE 9	N/A	Values averaged over 1 meter intervals
		Niskin Bottles	Guildline Autosol	Salinity calibrated to lab salinometer N/A
Oxygen	ml/l	Niskin Bottles	Winkler titration	N/A
NH ₄	μM/l	Niskin Bottle	K. Grasshot (1970) a simultaneous multiple channel system for nutrient analysis and digital record. Technician Quarterly, 3 7-17	N/A
Ammonium			Slawyk, L.R. and J.J. Mackinnon (1972) Comparison of two automated ammonium methods in a region of coastal upwelling. DSR, 19, 521-524	
PO ₄	μM/l	Niskin Bottles	E.L. Atlas et al (1971) a practical manual for use of the Technicon autoanalyser in seawater nutrient analysis	NA
Phosphate				

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPELTD - file names begin with ~~ESBE~~~~XBT - file names begin with CX~~WATER SAMPLES collected at discrete depths, file names
begin with B

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

LTD - Ascii, header info at top of file

~~XBT - Ascii, header info at top of file~~

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1☐ ALGOL☐ COBOL☐ FORTRAN☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

David Murphy, 409 345 7214

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
12. PHYSICAL BLOCK LENGTH IN BYTES 	
13. LENGTH OF BYTES IN BITS <div style="text-align: center; font-size: 2em;">8</div>	

RECORD NAME CTD FILE

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>Character</u> (e.g., bit, byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Cruise	89	5			Cruise number
DATE	7	34			Date in GMT
TIME	7	8			Time in GMT
Lat	6	8			Latitude of station
Lon	6	8			Longitude of station
Station name	0	12			Station name
blank line	0	80			spacing line
Column header	0	80			Labels columns
blank line	0	80			spacing line
data line {	depth	1	810		CTD depth
	temp	16	7		CTD temp
	Salinity	27	7		CTD Salinity
	XSM Volts.	40	5		CTD transmissometer voltage
	SigmaT				Computed density

RECORD NAME Discrete water sample data

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>bytes</u> (o.d., bitn, bylon)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Label	0	58			header label
Header	NB	0	2		number of water
	Cruise	4	5		Samplers
					Cruise number
	Station	10	11		Station number
	date	26	8		GMT Date
	time	35	4		GMT time
	Lat	44	7		Latitude
	Lon	54	7		Longitude
Label	0	77			Column label
to 33	depth	0	5		depth of sample
	thermometric depth	7	4		thermometric depth
	temperature	13	6		temperature
	chl	21	5		Chlorophyll a
	unprotected temp	27	5		unprotected temperature
	salinity	33	6		Salinity

RECORD NAME

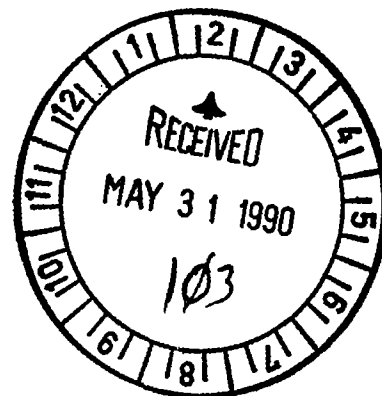
discrete water sample data continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (0.1, blts, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
data continued {	O2	40	6		dissolved Oxygen
	NH4	46	5		Ammonium
	PO4	52	5		phosphate
	SI	53	5		Silica
	NO3	64	5		Nitrate
	NO2	64	5		Nitrite
	Urea	74	5		Urea

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 (✓)	
DBE 9	11/23/87	✓	Sea Bird inc.	✓		✓		✓	
ST Sippie Mark 9		✓				✓			
Wts Seal 8400		✓				✓			
Technicon Auto Tracs Model		✓				✓			
inkler titrator		✓				✓			



Unique No.: 192830

Date of Entry: 06/08/90

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9000098 Reference No.: 329620
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 07 - 5.25-inch Floppy Diskette

Exchange Format: E001 - Low Resolution STD

Processing Format: C022 - Low Resolution STD (SD2 Format)

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

Country/Institute Code: 3124

Country/Platform Code: 32GY

Platform Type (DINDB): 09 - Ship

Orig. Cruise ID: TV5150

Cruise Start Date: 02/19/90

Project Code:

Cruise End Date: 02/23/90

Data Use Code (DUC): 3

Number of Stations: 13 Number of Records: 176

 If stations/records not appropriate then:

Number:

Units:

Ocean Area:

Code 1: 26 Meaning: Gulf of Mexico

Code 2: Meaning:

Code 3: Meaning:

DINDB Transaction Date:

ACCESSION NO. 9000098 FILETYPE ~~C100~~
~~F022~~
 C022

TRACK NO. 329620

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE DISKETTE	5-31-90	FJM					
DUPLICATE TAPE *	6-1-90	FJM		2			
REFORMATTED TAPE	6-6-90	R.P.S.	W12166 **	1	120	12000	176
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * DAMUS DISK !

C100 = DNODC * MURPH STA.
 F022 = DNODC * MURPH CTD.

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

** LABEL: DNODC * MURPHY CTD OUT.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

NAISEN REF #
329620

MULDARS TRACK #
TV5150

MONITOR: / CONTACT #
M. Lewis

LOCATION OF F022 SOURCE
Archives

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

NONE

TEXAS A&M UNIVERSITY
DEPARTMENT OF OCEANOGRAPHY
COLLEGE STATION, TX 77843

90 00098

Technical Support Services Group

May 21, 1990

MEMORANDUM

TO: Francis Mitchell

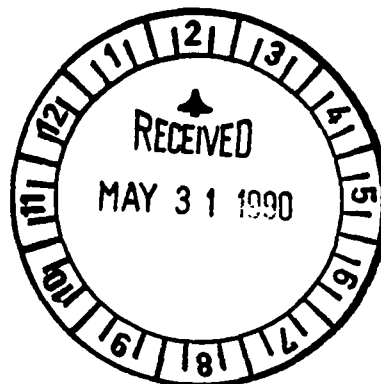
FROM: David Murphy

DM

SUBJECT: NODC data submission

REPLACEMENT

Here is another data set from our cruise 90G04. This is to replace the set that Doug Biggs sent while I was out sick. This format should be the same as our earlier submission except that sigma T is added to the CTD files. This disk includes CTD casts and accompanying discrete data. Give me a call if you have any problems with this data. (409) 845 7214



DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-77)

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

FORM APPROVED
O.M.D. No. 41-11265
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.)

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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 Department of Oceanography Texas A&M University College Station, Texas 77843 ATTN David Murphy			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED RV Gyre cruise 90 G 4		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 90 G 4	
4. PLATFORM NAME(S) RV Gyre	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR USA USA	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 02/19/90 02/24/90
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 checked="" type="checkbox"/> NO <input 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) Same as item-1 409 845: 7214			

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
Temperature	°C	Sea Bird CTD model SBE 9	N/A	Values averaged over 1 meter intervals
		XBT Sippican	N/A	None
Salinity	PSU	Sea Bird CTD model SBE 9	N/A	Values averaged over 1 meter intervals
		Niskin Bottles	Guildline Autosol	Salinity calibrated to lab salinometer N/A
Oxygen	ml/l	Niskin Bottles	Winkler titration	N/A
NH ₄	μM/l	Niskin Bottles	K. Grasshot (1970) a simultaneous multiple channel system for nutrient analysis and digital record. Technician quarterly, 137-17	N/A
Ammonium			Slawyk, L.R. and J.J. Mackinnon (1972) Comparison of two automated ammonium methods in a region of coastal upwelling DSR, 19, 521-524	
PO ₄	μM/l	Niskin Bottles	E.L. Atlas et al (1971) a practical manual for use of the Technicon Autoanalyser in seawater nutrient analysis	NA
Phosphate				

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

LTD - file names begin with ~~BSBE~~

~~XBF - file names begin with EX~~

WATER SAMPLES collected at discrete depths, file names begin with B

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

LTD - Ascii, header info at top of file

~~XBF - Ascii, header info at top of file~~

3. ATTRIBUTES AS EXPRESSED IN

☐ PL-1

☐ ALGOL

☐ COBOL

☐ FORTRAN

☐

LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

ADDRESS

David Murphy, 409 345 7214

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 checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/></p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/></p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/></p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/></p>
<p>7. PARITY</p> <p><input 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>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input 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>13. LENGTH OF BYTES IN BITS</p> <p>8</p>	

RECORD NAME CTD FILE

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>(char)</u> (0-9, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Cruise	89	5			Cruise number
DATE	7	34			Date in GMT
TIME	7	8			Time in GMT
Lat	6	8			Latitude of station
Lon	6	8			Longitude of station
Station name	0	12			Station name
blank line	0	80			spacing line
Column header	0	80			Labels columns
blank line	0	80			spacing line
data line {	depth	1	810		CTD depth
	temp	16	7		CTD temp
	Salinity	27	7		CTD Salinity
	XSM Volts.	40	5		CTD transmissometer voltage
	SigmaT				Computed density

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <u>bytes</u> (e.g., bit, byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
label	0	53			header label
header	NB	0	2		number of water
	cruise	4	5		samplers
					cruise number
	station	10	11		station number
	date	26	8		GMT Date
	time	35	4		GMT time
	lat	44	7		latitude
	lon	54	7		longitude
label	0	77			column label
data	depth	0	5		depth of sample
	thermometric depth	4	4		thermometric depth
	temperature	13	6		temperature
	chl	21	5		Chlorophyll a
	unprotected temp	27	5		unprotected temperature
	salinity	33	6		salinity

RECORD NAME discrete water sample data continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
data continued {	O2	40	6		dissolved Oxygen
	NH4	46	5		Ammonium
	PO4	52	5		phosphate
	SI	53	5		Silica
	NO3	64	5		Nitrate
	NO2	64	5		Nitrite
	Urea	74	5		Urea

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 DDE (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 (✓)	
DBE 9	11/23/87	✓	Sea Bird inc.	✓		✓		✓	
St Sippie Mark 9		✓				✓			
100 Seal 8400		✓				✓			
Technicon Auto Tracers		✓				✓			
inkler titrator		✓				✓			

Password: .

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
-----	----	-----	----	----	-----	-----	-----	-----
9000098	C022	329620	9999	3124	32GY	1990/02/19	TV5150	191246
9000098	L130	L00873	9999	3124	32GY	1990/02/19	90GY	191247
9000098	L130	L00892	0215	3124	32GY	1990/02/19	90GY	191248
9000098	F022	TV5150	0215	3124	32GY	1990/02/19	90G04	191249

(4 rows affected)

Password: .

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
9000098	C022	329620	32GY	13	14	90/02/19	90/02/23
9000098	L130	L00873	32GY	8	NULL	90/02/19	90/02/24
9000098	L130	L00892	32GY	8	56	90/02/19	90/02/24
9000098	F022	TV5150	32GY	13	176	90/02/19	90/02/23

(4 rows affected)