

DDF-B:1:18

DATA DOCUMENTATION FORM

79-0236  
F022 TR4400

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

329187 C022

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED  EG&G, Environmental Consultants 151 Bear Hill Road Waltham, MA 02154			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  NEOCSP0 Program		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  7702	
4. PLATFORM NAME(S)  SUB SIG II	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)  US US	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 11/12/77 11/21/77
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)  J. Bruce Andrews EG&G, Environmental Consultants (617) 890-3710 ext.525			

### 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 Temperature Salinity Density	Meters to tenths Degrees C to thousandths P.P.T. to thousandths Sigma T to thousandths	Brown CTD " " "		Data interpolated at 1 meter intervals from half decibar averaged pressure series

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

Four (4) record types, text record (1), master record (2), and detail record (3), and detail record (4) differentiated by byte 10.

**2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION**

File sorted by station number (cast number), record type and sequence number to obtain proper sequence.

**3. ATTRIBUTES AS EXPRESSED IN**

PL-1       ALGOL       COBOL  
 FORTRAN       \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER Charles K. Nason (617) 890-3710  
 ADDRESS EG&G, Environmental Consultants, 151 Bear Hill Rd., Waltham, MA 02154

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

<p><b>5. RECORDING MODE</b></p> <p><input type="checkbox"/> BCD      <input type="checkbox"/> BINARY  <input type="checkbox"/> ASCII    <input checked="" type="checkbox"/> EBCDIC  <input type="checkbox"/> _____</p>	<p><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH  <input checked="" type="checkbox"/> 0.6 inch</p>
<p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____</p>	<p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17  <input checked="" type="checkbox"/> Std. IBM</p>
<p><b>7. PARITY</b></p> <p><input type="checkbox"/> ODD  <input checked="" type="checkbox"/> EVEN</p>	<p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>NEOCSP0 Program Hydrographic Cruise 7702                  CTD casts                  Originator: B. Andrews                  EG&amp;G, Environmental Consultants                  Waltham, MA</p>
<p><b>8. DENSITY</b></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><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b>                  120</p> <p><b>13. LENGTH OF BYTES IN BITS</b>                  8</p>

RECORD FORMAT DESCRIPTION STD

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Text	16	100	Bytes	100A1	Additional pertinent information
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
<b>MASTER RECORD (REQUIRED THRU BYTES 59)</b>					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Latitude					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Hundredths of Minutes	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Hundredths of Minutes	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification
Number of Scans	41	5	Bytes	I5	Number of scans in a 'station' (There are five scans per record type '3')
Year	46	2	Bytes	I2	Last two digits of year
Month	48	2	Bytes	I2	1-12
Day	50	2	Bytes	I2	1-31
Hour	52	2	Bytes	I2	0-23 GMT
Minutes	54	2	Bytes	I2	0-59
Depth Interval Indicator	56	1	Bytes	I1	'0' equals unequally spaced depths
Depth Interval	57	3	Bytes	I3	'1' equals equal spaced depths
					When above equals '1', the depth interval, to tenths of meters reported.
Barometric pressure	60	5	Bytes	I5	Millibars to tenths

RECORD FORMAT DESCRIPTION STD

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wet bulb temperature	65	4	Bytes	I4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	I4	Degrees C to tenths
Wind direction	73	2	Bytes	I2	Tens of degrees WMO Codes 0855 and 0877
Wind speed	75	2	Bytes	I2	Whole knots
Weather Code	77	1	Bytes	I1	WMO 4501
Sea State Code	78	1	Bytes	I1	WMO 3700
Visibility Code	79	1	Bytes	I1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	I1	WMO 2700
Instrument Information	82	20	Bytes	20A1	Type and Serial Number
Location Name	102	6	Bytes	A6	OCSEP Internal Location Code
Depth to bottom	108	5	Bytes	I5	To whole meters
Maximum depth of cast	113	4	Bytes	I4	To whole meters
Blank	117	4	Bytes	4X	
<b>DETAIL RECORD (REQUIRED)</b>					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	I5	Meters to tenths
Temperature	21	5	Bytes	I5	Degrees C to thousandths
Salinity	26	5	Bytes	I5	P.P.T. to thousandths
Sigma-t	31	4	Bytes	I4	To hundredths
Scan Condition Code	35	1	Bytes	A1	Code describing how data arrived at
SCAN DATA	36	4(20)	Bytes	4(3I5,I4,A1)	Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
Blanks are used when significance of field indicated exceeds what is measured.					

RECORD FORMAT DESCRIPTION

*NA for surface data at*

RECORD NAME: Detail 2 Record (STD)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN BYTES (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	I5	Meters to tenths
Dissolved Oxygen	21	5	Bytes	I5	ml/l to thousandths
Transmissivity	26	5	Bytes	I5	% to thousandths
Blank	31	4	Bytes	4X	Scan Data
Scan Condition Code	35	1	Bytes	A1	
Scan Data	36	4(20)	Bytes	4(3I5,4X,A1)	Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
					Blanks are used when significance of field indicated exceeds what is measured



EG&G ENVIRONMENTAL GROUP  
151 Bear Hill Road  
Waltham, Massachusetts 02154  
(617) 890-3710

July 20, 1979

Mr. George Heimerdinger  
New England Liaison Officer, EDIS  
Clark Laboratory  
Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts 02543

Dear George:

I am sending you a tape containing CTD data from our hydrographic cruise 7702 in revised format, without embedded zeros and 999's at the end of casts.

If this tape is acceptable to EDIS, I will produce similar tapes for our other cruises. I hope to hear from you soon on this tape, and the current meter tape which I have already sent to you. Due to funding considerations, we would like to process all of the data from the first program year by 31 August.

Thank you for your assistance.

Very truly yours,

EG&G  
Environmental Consultants

*J. Bruce Andrews*

J. Bruce Andrews

JBA/sbm  
Encl.

cc: K. Berger

Filetype

022-5

25  
04

2634

120/4800, F022

13394 (C4164)

#1 #020121

TR 4169-4173, 4400, 4479-4443, 4449-4451, 4459-4460,  
4936-4938, 5102, 5487-5492, 5578-5605, 5734-5737,  
5917-5918 5314-5315, 5322-5323

184,261

164,676

Accession No: 79-0236

ID: OCS-N. ATLANTIC



DATA ABOVE RANGE IN SALINITY1 PPT TC .JJ1

?????

DATA ABOVE RANGE IN SALINITY2 PPT TC .JJ1

?????

DATA ABOVE RANGE IN SALINITY3 PPT TC .JJ1

?????

DATA ABOVE RANGE IN SALINITY4 PPT TC .JJ1

\*\*\*\*\*  
022TR442C3 53 110013619650J26284 1110186183650126284 1120185962649926284 1130185853649826284 1140185752649926284 22  
?????

DATA ABOVE RANGE IN SALINITY2 PPT TC .JJ1

\*\*\*\*\*  
022TR442C3 53 1150185623650J26294 1160185643650126294 1170185582650126294 1180185472649926294 1190185372649726294 23  
?????

DATA ABOVE RANGE IN SALINITY2 PPT TC .JJ1

?????

DATA ABOVE RANGE IN SALINITY3 PPT TC .JJ1

THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC/Z=NO CHECKING

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED LCW HIGH	ACTUAL RANGE LCWEST HIGHEST	MEAN	S. DEV	CCUNT	FP	FP-1	>-1		
M	2	16	2	LAT DEG	15	89	39	42	40.29	1.00	48	48	0	0
M	2	18	4	LAT MIN TO .01	0	5999	50	5640	2730.41	1765.51	48	48	C	0
C	?	22	1	0500LAT HEM							48			
M	2	23	3	LCN DEG	50	179	85	69	66.91	1.44	48	48	C	0
M	2	26	4	LCN MIN TO .01	0	5999	30	5933	3206.25	2045.06	48	48	C	0
C	2	30	1	0501LCN HEM							48			
M	2	41	5	NOV. OF SCANS/STATION AT 5/REC	1	99999	25	544	260.68	179.38	48	48	0	0
M	2	46	2	YEAR	NO RANGE CHECKING		77	79	77.02	38	48	48	C	0
M	2	48	2	MONTH	1	12	1	11	10.79	1.44	48	48	0	0
M	2	50	2	DAY	1	31	13	21	16.02	2.19	48	48	C	C
M	2	52	2	FOUR	0	23	0	23	11.62	7.04	48	48	C	C
M	2	54	2	MINUTE	0	59	0	57	28.25	17.92	48	48	C	0
C	2	56	1	0216DEPTH INTERVAL INDIC.							48			
M	2	57	3	DEPTH INTVL. METERS TO .1	1	999	10	10	10.00	00	48	48	0	0
M	2	60	4	BAROMETRIC PRESS MB TO .1	944	1050	NO VALUES FOUND FOR THIS PARAMETER							
M	2	65	4	WET-BULB DEG CENTIGRADE TO .1	-300	400	NO VALUES FOUND FOR THIS PARAMETER							
M	2	69	4	DRY-BULB DEG C TO .1	-300	400	NO VALUES FOUND FOR THIS PARAMETER							
C	2	72	2	0110 WIND DIR IN TENS OF DEG			NO VALUES FOUND FOR THIS PARAMETER							
M	2	75	2	WIND SPEED IN KILOMETERS	0	70	NO VALUES FOUND FOR THIS PARAMETER							
C	2	77	1	0108WEATHER CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	2	78	1	0109SEA STATE CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	2	79	1	0157VISIBILITY CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	2	80	1	0053CLOUD TYPE CODE			NO VALUES FOUND FOR THIS PARAMETER							
C	2	81	1	0105CLOUD AMOUNT CODE			NO VALUES FOUND FOR THIS PARAMETER							
M	2	109	5	BOTTOM DEPTH IN WHOLE METERS	0	3000	NO VALUES FOUND FOR THIS PARAMETER							
M	2	110	4	MAX DEPTH OF CAST METERS	0	6000	NO VALUES FOUND FOR THIS PARAMETER							
R	2	117	4								48			
M	3	16	5	DEPTH1 METERS TO .1	0	60000	10	5430	1922.66	1406.59	2521	2521	C	C
M	3	36	5	DEPTH2 METERS TO .1	1	60000	20	5440	1929.93	1405.42	2514	2514	C	C
M	3	56	5	DEPTH3 METERS TO .1	2	60000	30	5450	1947.85	1403.06	2503	2503	C	C
M	3	76	5	DEPTH4 METERS TO .1	3	60000	40	5460	1955.46	1400.60	2493	2493	C	C
M	3	96	5	DEPTH5 METERS TO .1	4	60000	50	5420	1961.44	1397.64	2482	2482	C	0
M	3	21	5	TEMPER1 DEGREES C TO .001	-2000	33000	5481	21430	11907.87	4090.21	2521	2521	C	C
M	3	41	5	TEMPER2 DEGREES C TO .001	-2000	33000	5476	21432	11896.37	4086.21	2514	2514	C	0
M	3	61	5	TEMPER3 DEGREES C TO .001	-2000	33000	5470	21431	11890.93	4084.03	2503	2503	C	C
M	3	81	5	TEMPER4 DEGREES C TO .001	-2000	33000	5472	21431	11882.53	4078.78	2493	2493	C	C
M	3	101	5	TEMPER5 DEGREES C TO .001	-2000	33000	5483	21429	11876.68	4075.65	2482	2482	C	0
M	2	26	5	SALINITY1 PPT TC .JJ1	10000	36500	31235	36600	34952.22	1119.77	2521	2521	C	C
M	3	46	5	SALINITY2 PPT TC .JJ1	10000	36500	31233	36626	34955.98	1115.51	2514	2514	C	C

N 3	66	5	SALINITY3 PPT TO .JJ1	10000	36500	31224	36589	34962.66	1109.02	2503	2503	C	C
N 3	86	5	SALINITY4 PPT TO .JJ1	10000	36500	31225	36590	34967.48	1104.19	2493	2493	C	C
N 3	106	5	SALINITY5 PPT TO .JJ1	10000	36500	31226	36592	34972.37	1099.03	2482	2482	C	C
N 3	31	4	SIGMA-T1 TO .J1	315	3000	2392	2765	2649.99	85.18	2521	2521	C	C
N 3	51	4	SIGMA-T2 TO .J1	315	3000	2392	2765	2650.45	84.57	2514	2514	C	C
N 3	71	4	SIGMA-T3 TO .J1	315	3000	2392	2765	2651.09	84.39	2503	2503	C	C
N 3	91	4	SIGMA-T4 TO .J1	315	3000	2392	2765	2651.61	83.82	2493	2493	C	C
N 3	111	4	SIGMA-T5 TO .J1	315	3000	2392	2765	2652.14	83.61	2482	2482	C	C
C 3	35	1	COBOSCAN CONDITION1 CODE							2521			
C 3	55	1	COBOSCAN CONDITION2 CODE							2514			
C 3	75	1	COBOSCAN CONDITION3 CODE							2503			
C 3	95	1	COBOSCAN CONDITION4 CODE							2493			
C 3	115	1	COBOSCAN CONDITION5 CODE							2482			
N 4	14	5	DEPTH5 IN METERS TO .1	5	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	36	5	DEPTH7 IN METERS TO .1	6	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	56	5	DEPTH3 IN METERS TO .1	7	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	76	5	DEPTH9 IN METERS TO .1	8	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	96	5	DEPTH10 IN METERS TO .1	9	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	21	5	DISSOLVED OXYGEN1 ML/L TO .JJ1	1	15000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	41	5	DISSOLVED OXYGEN2 ML/L TO .JJ1	1	15000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	61	5	DISSOLVED OXYGEN3 ML/L TO .JJ1	1	15000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	81	5	DISSOLVED OXYGEN4 ML/L TO .JJ1	1	15000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	101	5	DISSOLVED OXYGEN5 ML/L TO .JJ1	1	15000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 4	35	1	COBOSCAN CONDITION6 CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 4	55	1	COBOSCAN CONDITION7 CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 4	74	1	COBOSCAN CONDITION8 CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 4	95	1	COBOSCAN CONDITION9 CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 4	115	1	COBOSCAN CONDITION10 CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	26	5	TRANSMISSIVITY1 % TO .JJ1	1	99000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
B 4	31	4				NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	46	5	TRANSMISSIVITY2 % TO .JJ1	1	99000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
B 4	51	4				NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	66	5	TRANSMISSIVITY3 % TO .JJ1	1	99000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
B 4	71	4				NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	86	5	TRANSMISSIVITY4 % TO .JJ1	1	99000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
B 4	96	4				NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 4	106	5	TRANSMISSIVITY5 % TO .JJ1	1	99000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
B 4	111	4				NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	14	5	DEPTH1 METERS TO .1	0	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	36	5	DEPTH2 METERS TO .1	1	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	56	5	DEPTH3 METERS TO .1	2	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	76	5	DEPTH4 METERS TO .1	3	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	96	5	DEPTH5 METERS TO .1	4	60000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	21	5	TEMPER1 DEGREES C TO .JJ1	-2000	20000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	41	5	TEMPER2 DEGREES C TO .JJ1	-2000	20000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	61	5	TEMPER3 DEGREES C TO .JJ1	-2000	20000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	81	5	TEMPER4 DEGREES C TO .JJ1	-2000	20000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	101	5	TEMPER5 DEGREES C TO .JJ1	-2000	20000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	26	5	CONDUCT1 MMHO/CM TO .JJ1	15000	55000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	46	5	CONDUCT2 MMHO/CM TO .JJ1	15000	55000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	66	5	CONDUCT3 MMHO/CM TO .JJ1	15000	55000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	86	5	CONDUCT4 MMHO/CM TO .JJ1	15000	55000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	106	5	CONDUCT5 MMHO/CM TO .JJ1	15000	55000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	31	4	SIGMA-T1 TO .J1	315	3000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	51	4	SIGMA-T2 TO .J1	315	3000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	71	4	SIGMA-T3 TO .J1	315	3000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	91	4	SIGMA-T4 TO .J1	315	3000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
N 5	111	4	SIGMA-T5 TO .J1	315	3000	NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 5	35	1	COBOSCAN CONDITION CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		
C 5	55	1	COBOSCAN CONDITION CODE			NO	VALUES	FOUND	FOR	THIS	PARAMETER		



Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7900236	F022	TR4400	0091	31F4	32G8	1977/11/13	7702	309651
7900236	C022	329187	0091	31F4	32G8	1977/11/13	TR4400	309652

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7900236	F022	TR4400	32G8	48	2617	77/11/13	78/01/16
7900236	C022	329187	32G8	48	66	77/11/13	78/01/16

(2 rows affected)