

DDF-B:1:10

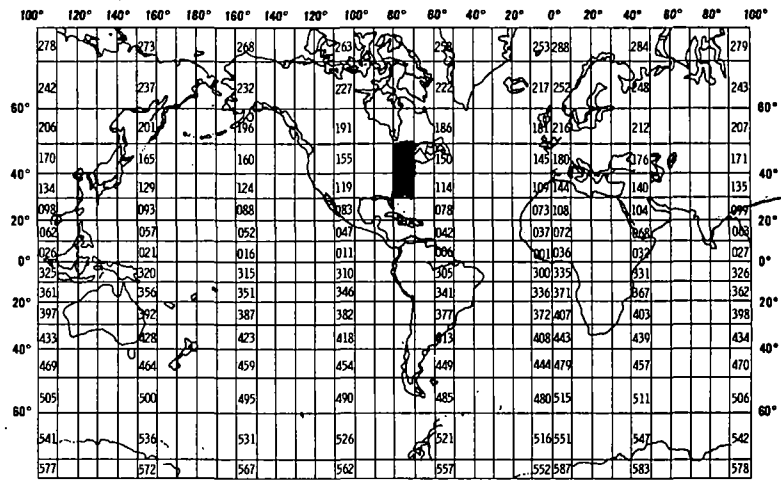
DATA DOCUMENTATION FORM

F050 TR0684 TR0685
TR1349-TR1351NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM 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 U.S. DEP. OF COMMERCE NOAA, NMFS, MACFC HIGHLANDS, N.J. 07732			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED NOAA/NMFS/MACFC/SHL NOAA/ERL/MESA/N.Y.B.		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 07401 07502 07409 07512 07416	
4. PLATFORM NAME(S) OREGON II DELAWARE II	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR OREGON II U.S.A. DELAWARE II U.S.A.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 03/22/74 08/23/75
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) DR. JAMES P. THOMAS 201-872-0200			

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

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
DISSOLVED OXYGEN	ML/L to hundredths	Niskin Bottle	Winkler titration (Azide modification) using PAO instead of thiosulfate, microburette	
OXYGEN SATURATION	PERCENT	Used Temp. & Salinity data. in situ	Weisse Equations, Deep-Sea Res. 17(4): 726.	
IN SITU TEMPERATURE	CELSIUS	Reversing Thermometers	Walter H. Kessler Co., Inc. Westbury, N.Y. Calibration by above.	
WATER BATH TEMPERATURE	CELSIUS	As		
SALINITY	0/00	Niskin Bottle	RS 7B Salinometer Beckman	
DISSOLVED OXYGEN 100% SATURATION CONCENTRATION	ML/L	As above for oxygen saturation	As above for oxygen saturation	
AVERAGE SEABED OXYGEN CONSUMPTION	ML of O ₂ / M ² / HOUR	following the method of Pamatmat, Limnol. Oceanogr. 16(3): 536. (1971)	Procedures of Pamatmat Limnol. Oceanogr. 1971. 16(3): 536	See Spec. SYMP Vol. Limnol. Oceanogr. 1976. Seabed oxygen consumption - N.Y. Bight. Thomas, et al.
WEIGHT % ORGANIC MATTER	Weight % organic matter	Sediment samples from Pamatmat multiple corer	Leco Carbon Furnace Induction	

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

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

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

1 CRUISE HEADER CODE 1
2 STATION HEADER CODE 2
3 DATA DETAIL RECORD CODE 4

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

THE FILE IS GIVEN BY CRUISE AND DATE

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER John LeBaron 201-872-0200 Ext 12

ADDRESS N.M.F.S. Highlands N.J. 07732

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</p> <p><input type="checkbox"/> _____</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"/> IBM Standard Hex</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" 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>Standard IBM Labels</p> <p>BLKSIZE = 1700</p> <p>LRECL = 85</p> <p>RECFM = FB</p> <p>DSNAME = FM.MBL.M576</p> <p>VOL = SER = 047740</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>1700</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME _____

FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ATTACHED					

RECORD FORMAT DESCRIPTION

RECORD NAME

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., blts, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

RECORD FORMAT DESCRIPTION

RECORD NAME _____

FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

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		

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 (✓)	

RECORD FORMAT DESCRIPTION

page/total
1 3

File Name: Seabed Oxygen Consumption (File Type "050")

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (e.g., b1(n, bytes))	16. LENGTH		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		in bytes			
		NUMBER	UNITS		
File Header Record					
FILE TYPE	1	3		A3	"050"(constant)
FILE DATE	4	6		3I2	Yr., Mo., Dy. of file generation
RECORD TYPE	10	1		A1	"1" (File Header Record)
VESSEL	11	11		11A1	(left aligned)
CRUISE	22	6		6A1	Originator's Cruise Identifiers
CRUISE DATES	28	17		5(I2,A1),I2	XX/XX/XX - XX/XX/XX beginning Month, Day, Year; ending Month, Day, Year
SENIOR SCIENTIST	45	19		19A1	(left aligned)
INVESTIGATOR	64	21		21A1	Responsible Institution (left aligned)
First Station Header Record					
FILE TYPE	1	3		A3	"050" (constant)
FILE DATE	4	6		3I2	Yr., Mo., Dy. of File generation
RECORD TYPE	10	1		A1	"2" (First Station Header Record)
SEQUENCE	11	3		I3	Sequence of this record type within Station (leading zeros or leading blanks)
STATION	14	5		5A1	Station Identifier
LATITUDE	19	6		3I2	Degrees, Minutes, Seconds
LATHEM	25	1		A1	Hemisphere "N" or "S"
LONGITUDE	26	7		I3, 2I2	Degrees, Minutes, Seconds
LONGHEM	33	1		A1	Hemisphere "W" or "E"
DATE	34	6		I6	Station date; Yr., Mo., Dy.
TIME	40	3		I3	GMT in hours to tenths
BOTTOM	43	5		I5	Water depth, meters to tenths
NAVIGATION	48	2		I2	(see attached codes)
DISSOLVED OXYGEN	50	4		I4	ml/l to hundredths, bottom
OXYGEN SATURATION	54	3		I3	percent, in situ bottom
TEMPERATURE	57	4		I4	Degrees Celsius to hundredths at bottom
WATER BATH					
TEMPERATURE	61	4		I4	Degrees Celsius to hundredths
SALINITY	65	5		I5	Parts per thousand to thousandths
DISSOLVED OXYGEN					
100% SATURATION					
CONCENTRATION	70	4		I4	ml/l to hundredths at water bath
AVERAGE SEABED					
OXYGEN	74	5		I5	temperature and in situ salinity
CONSUMPTION					(ml O ₂ /M ²)/hour to hundredths
% OF REPLICATES IN					
AVERAGE	79	2		I2	
BLANK	81	4		4X	blank

page/total
2 3

2 3

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

page/total

3 3

File Name Seabed Oxygen Consumption (File Type "050")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH in bytes		17. ATTRIBUTES FORTRAN	18. USE AND MEANING
		NUMBER	UNITS		
<u>Data Record (con't)</u>					
STATION	14	5		5A1	leading blanks)
REPLICATE NO.	19	2		I2	Station Identifier
EXPERIMENT ELAPSED TIME	21	4		I4	for following oxygen consumption experiment
INITIAL DISSOLVED OXYGEN	25	4		I4	hours to hundredths
FINAL DISSOLVED OXYGEN	29	4		I4	ml/l to hundredths
✓ OXYGEN CONSUMPTION	33	5		I5	ml/l to hundredths
COMMENTS	38	10		10A1	(ml O ₂ /M ²)/hour to hundredths
✓ WEIGHT % ORGANIC MATTER	48	4		I4	Note regarding experiment if applicable
REPLICATE NO.	52	2		I2	percent to hundredths for replicate
EXPERIMENT ELAPSED TIME	54	4		I4	for following oxygen consumption experiment
INITIAL DISSOLVED OXYGEN	58	4		I4	hours to hundredths
FINAL DISSOLVED OXYGEN	62	4		I4	ml/l to hundredths
✓ OXYGEN CONSUMPTION	66	5		I5	ml/l to hundredths
COMMENTS	71	10		10A1	(ml O ₂ /M ²)/hour to hundredths
✓ WEIGHT % ORGANIC MATTER	81	4		I4	Note regarding experiment if applicable
<u>Data Record Terminator</u>					percent to hundredths for replicate
					Optional: for those who must re- read their file using FORTRAN
IDENT	1	10		A3, 3I2, A1	Same as "Data Record"
SEQUENCE	11	3		A3	"998" = end Station, "999" = end file
BLANK	14	71		71X	blank
<u>Navigation</u>					
01 = Loran (mixed or unspecified)					
02 = Radar and/or fixes					
03 = Raydist without complications					
04 = Raydist with errors, drifting, etc.					
05 = Satellite					
06 = Omega					
07 = Loran A only					
08 = Loran C only					



76-1469
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

Middle Atlantic Coastal Fisheries Center
Highlands, New Jersey 07732

August 4, 1976

F16

TO: Director, National Oceanographic Data Center
Environmental Data Service, Attn: Dr. James B. Ridlon, D781
Washington, D. C. 20235

FROM: Carl J. Sindermann *Carl J. Sindermann*
Director, Middle Atlantic Coastal Fisheries Center

SUBJECT: MESA Seabed Oxygen Consumption Data Tapes

Enclosed is the MESA seabed oxygen consumption data tape (Vol. Serial No. 047760) which we have assembled under an agreement with MESA. A completed data documentation form and a listing of the tape are enclosed.

Encl.

cc: Dr. McNulty
Mr. A. Pacheco
Mr. P. Eisen

no listing in package

RECEIVED 06 AUG 1976



RECORD FORMAT DESCRIPTION

RECORD NAME

76-1469 documentation

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
1. Cruise #	07401			changed to TR	0685
" #	D7409		"	"	TR 0684
" #	D7416		"	"	TR 1349
" #	D7502		"	"	TR 1350
" #	D7512		"	"	TR 1351
2. Terminator-type records stripped from data.					
3. No other changes.					

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7601469	F050	TR0684	0065	31B4	316G	1974/08/26	D7409	300439
7601469	F050	TR0685	0065	31B4	316O	1974/03/22	O7401	300440
7601469	F050	TR1349	0065	31B4	316G	1974/12/06	D7416	300441
7601469	F050	TR1350	0065	31B4	316G	1975/02/13	D7502	300442
7601469	F050	TR1351	0065	31B4	316G	1975/08/13	D7512	300443

(5 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7601469	F050	TR0684	316G	101	244	74/08/26	74/09/06
7601469	F050	TR0685	316O	100	245	74/03/22	74/04/03
7601469	F050	TR1349	316G	60	193	74/12/06	74/12/15
7601469	F050	TR1350	316G	66	195	75/02/13	75/02/20
7601469	F050	TR1351	316G	64	197	75/08/13	75/08/23

(5 rows affected)

CODE OUT OF RANGE IN COL 48

050TR06852 1 34402500N 734800W74 4 4 30 03 648 93 630 72033590 847 197412
??

CODE OUT OF RANGE IN COL 48

050TR06852 1 43402200N 735200W74 4 3178 03 647 93 640 72032920 684 1156 4
??

CODE OUT OF RANGE IN COL 48

050TR06854 2 43 81512 630 409 1316 121517 643 00 016ND FIN PAD
??

ILLEGAL BLANKS IN END DIS 02 2 ML/L .0

050TR06852 1 109403230N 735200W74 4 3232 03 615 630 720 847 147012
??

CODE OUT OF RANGE IN COL 48

THE FIELDS BELOW WERE CHECKED AS FOLLOWS (S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED	ACTUAL RANGE	MEAN	S, DEV	COUNT
					LOW HIGH	LOWEST HIGHEST			
N	1	28	2	BEGIN MONTH	NU RANGE CHECKING	3 3	3.00	.00	1
N	1	31	2	BEGIN DAY	NU RANGE CHECKING	22 22	22.00	.00	1
N	1	34	2	BEGIN YEAR	NU RANGE CHECKING	74 74	74.00	.00	1
N	1	37	2	END MONTH	NU RANGE CHECKING	4 4	4.00	.00	1
N	1	40	2	END DAY	NU RANGE CHECKING	3 3	3.00	.00	1
N	1	43	2	END YEAR	NU RANGE CHECKING	74 74	74.00	.00	1
N	2	11	3	SEQUENCE NUMBER	NU RANGE CHECKING	1 1	1.00	.00	108
M	2	19	2	LAT DEG	40 89	40 40	40.00	.00	108
M	2	21	2	LAT MIN	00 59	10 34	21.61	7.72	108
N	2	23	2	LAT SEC	00 59	0 30	27	2.87	108
C	2	25	1	LAT HEM	N N				
M	2	26	3	LON DEG	060 179	73 73	73.00	.00	108
M	2	29	2	LON MIN	00 59	36 59	46.66	6.79	108
N	2	31	2	LON SEC	00 59	0 0	00	.00	108
C	2	33	1	LON HEM	W W				
M	2	34	2	YEAR	74 78	74 74	74.00	.00	108
M	2	36	2	MONTH	01 12	3 4	3.14	.42	108
M	2	38	2	DAY	01 31	1 31	22.43	8.98	108
N	2	40	2	HOUR	00 23	0 23	12.08	6.92	58
N	2	42	1	TENTHS OF HOURS	NU RANGE CHECKING	0 9	4.12	2.87	58
N	2	43	5	BOTTOM DEPTH M TO .1	NU RANGE CHECKING	01 08	NO VALUES FOUND FOR THIS PARAMETER		
C	2	48	2	NAVIGATION	NU RANGE CHECKING	01 08			
N	2	50	4	BOT OXY ME/L TO .01	NU RANGE CHECKING	451 734	672.72	40.15	58
N	2	54	3	BOTTOM OXY SAT	NU RANGE CHECKING	65 106	95.97	5.87	47
N	2	57	4	BOT TEM DEG C TO .01	NU RANGE CHECKING	500 800	631.76	64.42	95
N	2	65	4	WAT B TEM DEG C .0	NU RANGE CHECKING	500 1200	701.16	88.63	60
N	2	70	4	BOT SAL PPT TO .001	NU RANGE CHECKING	29290 33790	32676.95	956.01	46
N	2	74	5	DIS 02 ML/L TO .01	NU RANGE CHECKING	614 896	718.80	66.41	62
N	2	79	2	DIS CON ML/M2/HR .01	NU RANGE CHECKING	232 2045	938.49	461.70	57
N	2	81	4	NO. OF REPL.	00 99	1 12	4.07	1.74	57
B	2	81	4						10
N	3	11	3	SEQUENCE NUMBER	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			
N	3	19	3	BAR PRESS MP TO .1	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			
N	3	22	4	DRY B TEM DEG C TO .	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			
N	3	26	4	WET B TEM DEG C TO .	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			
N	3	30	2	WIND D WMD 877	00 99	NO VALUES FOUND FOR THIS PARAMETER			
N	3	32	2	WIND SPEED KTS	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			
N	3	34	2	SEA D WMD 885	00 99	NO VALUES FOUND FOR THIS PARAMETER			
C	3	36	1	SEA HEIGHT WMD 1555	NU RANGE CHECKING	NO VALUES FOUND FOR THIS PARAMETER			

Run AND CHANGE BAR 4

INSERT RANGES

delete

OK

N	3	37	2	SWELL D WMO 885	00	99
C	3	39	1	SWELL HEIGHT WMO 155	NO RANGE CHECKING	
N	3	40	1	WEATHER WMO 4501	NO RANGE CHECKING	
C	3	41	1	CLOUD TYPE WMO 0500	NO RANGE CHECKING	
N	3	42	1	CLOUD COVER WMO 2700	NO RANGE CHECKING	
N	3	43	1	VISIBILITY WMO 4300	NO RANGE CHECKING	
N	3	44	4	SECCHI DEPTH M TO .1	NO RANGE CHECKING	
B	3	48	37			
N	4	11	3	SEQUENCE NUMBER	NO RANGE CHECKING	
N	4	19	2	REPL. NO. 1	NO RANGE CHECKING	
N	4	21	4	EXP. ELAPTIME1 HR .0	NO RANGE CHECKING	
N	4	25	4	BEG DIS D2 1 ML/L .0	NO RANGE CHECKING	
N	4	29	4	END DI D2 1 ML/L .0	NO RANGE CHECKING	
N	4	33	5	D2 CON 1 ML/M2/HR .0	NO RANGE CHECKING	
N	4	48	4	WT-% DRG MAT 1 TO .0	NO RANGE CHECKING	
N	4	52	2	REPL. NO. 2	NO RANGE CHECKING	
N	4	54	4	EXP. ELAPTIME2 HR .0	NO RANGE CHECKING	
N	4	58	4	BEG DIS D2 2 ML/L .0	NO RANGE CHECKING	
N	4	62	4	END DIS D2 2 ML/L .0	NO RANGE CHECKING	
N	4	66	5	D2 CON 2 ML/M2/HR .0	NO RANGE CHECKING	
N	4	81	4	WT-% DRG MAT 2 TO .0	NO RANGE CHECKING	

NO VALUES FOUND FOR THIS PARAMETER

NO VALUES FOUND FOR THIS PARAMETER

NO VALUES FOUND FOR THIS PARAMETER

NO VALUES FOUND FOR THIS PARAMETER

NO VALUES FOUND FOR THIS PARAMETER

1	6	1,77	96	136
0	43	14,77	10,72	136
1	2122	1225,45	247,64	136
449	753	670,59	41,46	132
60	664	542,61	103,31	131
-453	2457	943,83	636,30	132
11	863	108,67	172,65	25
1	42	16,00	10,25	112
1	2125	1242,99	214,99	112
534	744	671,00	36,34	111
88	704	536,70	110,22	108
-308	26951	1277,88	2554,89	111
7	314	62,43	64,84	23

RECORDS READ :

245