

Unique No.: 237476

Date of Entry: 09/07/94

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 9400043 Reference No.: TX0121
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 24 - Telecommunications

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: 32UK

Platform Type (DINDB): 09 - Ship Orig. Cruise ID: 93E

Cruise Start Date: 04/26/93 Project Code: 0212

Cruise End Date: 05/11/93 Data Use Code (DUC): 3

Number of Stations: 215 Number of Records: 9,428

 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:

 F022 TX0121 TX0121

F022 MARK TX0121

MPD75, TX0121/F022

 OK
 Texas A+M

9427 records

9400043

8-29-94

@ASG,T TAMCTOUT, 440, W79109

1NV=TAM-NU

SIX HOURS ADDED TO ALL STATIONS

TX 0121

ORIGINAL

COPIED TO OPTICAL AUG 12, 1994

9400043

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*****
** MMS LATEX-A SHELF NODC Project Code 0212 **
** PROVISIONAL DATA SUBMISSION 09 March 1994 **
** LATEX DATA OFFICE Texas A&M University **
** Geochemical and Environmental Research Group **
** College Station TX 77843-3149 (409) 862-2321 **
**
** Preliminary Data Subject to Revision **
** Not to be release without permission **
** of LATEX A Program Manager (409) 845-6714 **
**
** Please communicate any errors found in this data set to: **
** Dr. Denis Wiesenburg **
** Texas A&M University **
** Geochemical and Environmental Research Group **
** College Station, TX 77843-3149 (409) 862-2323 **
*****

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* Sea-Bird SBE 9 Raw Data File:
* FileName = D:\CTD\93E001DAT.DAT
* Software Version 4.016
* Temperature SN = 031273
* Conductivity SN = 040987
* Number of Bytes Per Scan = 24
* System UpLoad Time = April 26, 1993 1:46:04 pm
* Ship: J. W. POWELL 32 UK
* Cruise: 93E
* Station: 001
* Latitude 28 25.30N
* Longitude 93 51.04W
# nquan = 29
# nvalues = 94
# units = metric
# name 0 = scan: scan number
# name 1 = pr: pressure [decibars] ✓ 18-25 thos
# name 2 = c0: conductivity [S/m] ✓ 40-42 thos
# name 3 = t0: temperature [deg C] ✓
# name 4 = oxC: oxygen, current [microamps]
# name 5 = oxT: oxygen, temperature [deg C]
# name 6 = xmiss: transmissometer [%Transmission] ✓ 3-77
# name 7 = f1C: fluorometer, chelsea [relative]
# name 8 = par: irradiance (PAR) [micro-Einsteins/(s*square meter)]
# name 9 = obs: backscatterance [Formazin Turbidity units]
# name 10 = alt: altimeter [meters]
# name 11 = f0: frequency, number 0
# name 12 = f1: frequency, number 1
# name 13 = f2: frequency, number 2. ✓
# name 14 = v0: voltage, number 0
# name 15 = v1: voltage, number 1
# name 16 = v4: voltage, number 4
# name 17 = v5: voltage, number 5
# name 18 = v6: voltage, number 6
# name 19 = depS: depth, salt water [meters] ✓ 53-60
# name 20 = sigma-000: density, sigma-theta [kg/m^3] ✓ 65-71
# name 21 = sal00: salinity, PSS-78 [PSU] ✓ 26-81 100 thos
# name 22 = oxsatML/L: oxygen saturation [ml per liter] ✓ 9-14 thos
# name 23 = potemp: potential temperature [deg C]
# name 24 = svC: sound velocity, chen millero [meters]
# name 25 = dz/dt: descent rate [meters per second]
# name 26 = acc: acceleration
# name 27 = flag: 0.000e+00

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DNODC X TAMU CTD

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# name 28 = nbin: number of scans per bin
# span 0 = 11, 4101
# span 1 = 2.013, 48.832
# span 2 = 4.667612, 4.922749
# span 3 = 19.4760, 20.8261
# span 4 = 0.625, 0.873
# span 5 = 21.261, 21.939
# span 6 = 70.57, 88.11
# span 7 = 1.306e-01, 8.240e-01
# span 8 = 5.261e-01, 9.753e+00
# span 9 = 4.337e-17, 0.24
# span 10 = 1.83466, 48.08025
# span 11 = 9903.513, 10172.206
# span 12 = 9640.062, 9877.266
# span 13 = 32751.851, 32776.839
# span 14 = 3.520, 4.396
# span 15 = 1.116, 1.916
# span 16 = 0.000, 0.024
# span 17 = 1.502, 4.038
# span 18 = 0.031, 0.801
# span 19 = 2.000, 48.500
# span 20 = 23.4954, 25.6444
# span 21 = 33.6096, 35.9716
# span 22 = 5.099, 5.186
# span 23 = 19.4672, 20.8252
# span 24 = 1521.12, 1524.06
# span 25 = 0.128, 1.222
# span 26 = -0.80, 0.66
# span 27 = 0.000e+00, 0.000e+00
# span 28 = 9.0000, 72.0000
# interval = meters: 0.5
# start_time = Apr 26 1993 13:46:04
# bad_flag = -9.990e-29
# datchv_date = Jun 22 1993 16:20:20, 4.026
# datchv_in = 93E001.DAT 93EPOSTN.CON 031273 040987 50131
# datchv_skipover = 0
# split_date = Jun 22 1993 17:12:36, 4.026
# split_in = 93E001.CNV
# split_excl_bad_scans = yes
# filter_date = Jun 22 1993 17:55:26, 4.026
# filter_in = D93E001.CNV
# filter_low_pass_tc_A = 0.030
# filter_low_pass_tc_B = 0.150
# filter_low_pass_A_vars = c0
# filter_low_pass_B_vars = pr
# celltm_date = Jun 22 1993 18:30:19, 4.026
# celltm_in = D93E001.CNV
# celltm_alpha = 0.0300, 0.0000
# celltm_tau = 9.0000, 0.0000
# loopedit_date = Jun 22 1993 18:49:12, 4.026
# loopedit_in = D93E001.CNV
# loopedit_minVelocity = 0.000
# loopedit_excl_bad_scans = yes
# derive_date = Jun 22 1993 19:12:08, 4.026
# derive_in = D93E001.CNV
# derive_time_window_dzdt = seconds: 2
# binavg_date = Jun 22 1993 19:35:16, 4.026
# binavg_in = D93E001.CNV
# binavg_bintype = Depth Bins
# binavg_binsize = 0.50

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```
# binavg_excl_bad_scans = yes
# binavg_downcast_only = no
# binavg_skipover = 0
# binavg_surface_bin = no, min = 0.000, max = 0.000, value = 0.000
# file_type = ascii
*END*
```

11	2.013	4.703174	20.8160	0.866	21.939	86.74
186	2.517	4.703539	20.8193	0.866	21.919	86.61
533	3.020	4.703808	20.8218	0.868	21.887	86.42
576	3.524	4.703828	20.8215	0.862	21.884	86.42
615	4.027	4.704197	20.8244	0.853	21.884	86.52
638	4.530	4.704408	20.8261	0.849	21.880	86.75
659	5.034	4.704123	20.8236	0.859	21.876	86.75
685	5.537	4.703739	20.8195	0.868	21.873	86.76
716	6.041	4.703757	20.8193	0.871	21.872	86.74
751	6.544	4.703804	20.8196	0.866	21.871	86.76
780	7.047	4.703237	20.8143	0.860	21.865	86.75
805	7.551	4.701907	20.8008	0.863	21.862	86.73
827	8.054	4.701133	20.7924	0.871	21.862	86.71
849	8.557	4.701051	20.7918	0.871	21.862	86.69
884	9.061	4.701050	20.7919	0.865	21.861	86.70
916	9.564	4.700800	20.7888	0.860	21.859	86.65
940	10.068	4.700067	20.7809	0.863	21.852	86.64
973	10.571	4.700564	20.7863	0.857	21.851	86.68
1009	11.074	4.698006	20.7596	0.856	21.850	86.67
1029	11.578	4.696905	20.7468	0.861	21.847	86.67
1045	12.081	4.696613	20.7433	0.862	21.845	86.65
1064	12.585	4.696554	20.7425	0.864	21.842	86.66
1129	13.088	4.694660	20.7241	0.873	21.839	86.65
1156	13.591	4.694139	20.7182	0.862	21.839	86.62
1169	14.095	4.693968	20.7156	0.857	21.838	86.65
1182	14.598	4.692833	20.7057	0.860	21.833	86.67
1201	15.102	4.692311	20.6999	0.855	21.833	86.65
1266	15.605	4.693231	20.7091	0.854	21.825	86.66
1294	16.108	4.693036	20.7072	0.862	21.822	86.68
1311	16.612	4.688289	20.6652	0.856	21.820	86.65
1326	17.115	4.687156	20.6520	0.858	21.819	86.71
1341	17.619	4.687022	20.6511	0.862	21.818	86.74
1360	18.122	4.687106	20.6518	0.866	21.818	86.74
1415	18.625	4.686789	20.6491	0.860	21.813	86.71
1458	19.129	4.681857	20.6054	0.857	21.807	86.72
1475	19.632	4.681123	20.5984	0.857	21.808	86.87
1490	20.136	4.678355	20.5726	0.855	21.807	86.89
1503	20.639	4.677307	20.5626	0.854	21.807	86.93
1517	21.143	4.671535	20.4970	0.858	21.806	86.95
1554	21.646	4.667612	20.4020	0.856	21.802	87.02
1620	22.149	4.667851	20.2277	0.849	21.796	87.17
1632	22.653	4.671924	20.2027	0.849	21.795	87.11
1645	23.156	4.674511	20.2060	0.844	21.796	87.10
1659	23.660	4.676763	20.2083	0.836	21.789	87.11
1683	24.163	4.680890	20.2114	0.830	21.786	87.13
1740	24.666	4.684049	20.2153	0.840	21.785	87.08
1765	25.170	4.687059	20.2176	0.845	21.780	86.98
1780	25.673	4.705162	20.2189	0.836	21.782	86.87
1794	26.177	4.747894	20.2396	0.829	21.778	86.72
1814	26.680	4.771344	20.2536	0.832	21.775	86.66
1870	27.184	4.794188	20.2064	0.844	21.770	87.02
1901	27.687	4.823282	20.1232	0.835	21.764	87.33
1916	28.190	4.843594	20.1952	0.833	21.764	87.68
1930	28.694	4.890487	20.3622	0.836	21.764	87.87

1945	29.197	4.913034	20.4735	0.831	21.763	88.10
1982	29.701	4.919065	20.5054	0.823	21.757	87.97
2042	30.204	4.922749	20.5021	0.811	21.753	88.01
2055	30.708	4.897868	20.3184	0.814	21.752	88.11
2068	31.211	4.867928	20.0542	0.816	21.747	88.05
2084	31.715	4.864738	19.9873	0.816	21.743	87.87
2111	32.218	4.870911	19.9900	0.812	21.741	87.84
2151	32.721	4.882259	20.0353	0.786	21.735	87.66
2181	33.225	4.890482	20.0449	0.787	21.728	87.12
2208	33.728	4.892890	20.0375	0.778	21.722	86.72
2228	34.232	4.897917	20.0446	0.775	21.721	86.54
2245	34.735	4.884377	19.9255	0.772	21.720	86.80
2265	35.239	4.868686	19.7486	0.773	21.719	86.89
2303	35.742	4.866611	19.7013	0.762	21.711	86.85
2331	36.246	4.861480	19.5906	0.754	21.708	86.22
2345	36.749	4.859763	19.5602	0.748	21.708	84.76
2357	37.252	4.858231	19.5309	0.741	21.701	83.00
2370	37.756	4.857640	19.5178	0.739	21.699	81.76
2401	38.259	4.858081	19.5235	0.719	21.695	81.87
2458	38.763	4.857461	19.5110	0.682	21.680	81.79
2470	39.266	4.857544	19.5104	0.677	21.681	80.70
2481	39.770	4.857523	19.5093	0.673	21.676	80.39
2491	40.273	4.857662	19.5086	0.671	21.676	80.36
2500	40.777	4.857725	19.5062	0.672	21.676	80.11
2510	41.280	4.857722	19.5052	0.669	21.676	79.93
2521	41.784	4.857719	19.5033	0.670	21.675	79.81
2573	42.287	4.857799	19.5023	0.659	21.666	79.71
2620	42.791	4.857788	19.4990	0.647	21.656	79.09
2631	43.294	4.857788	19.4969	0.650	21.654	78.62
2641	43.797	4.857753	19.4945	0.651	21.654	78.25
2655	44.301	4.857779	19.4939	0.648	21.652	78.07
2930	44.805	4.857612	19.4876	0.642	21.590	77.27
3009	45.308	4.857667	19.4873	0.641	21.572	76.31
3089	45.811	4.857517	19.4825	0.640	21.544	75.18
3098	46.315	4.857480	19.4806	0.635	21.545	74.06
3108	46.818	4.857413	19.4793	0.634	21.545	72.53
3120	47.322	4.857308	19.4771	0.636	21.544	71.48
3173	47.825	4.857344	19.4768	0.634	21.527	71.16
3241	48.329	4.857311	19.4760	0.635	21.504	70.87
4101	48.832	4.857402	19.4766	0.625	21.261	70.57

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9400043	TW9888	F015	0212	3124	317F	10096	03/19/93	05/26/93	1	2,726
9400043	TW9889	F015	0212	3124	317F	10094	03/18/93	05/27/93	1	2,792
9400043	TW9890	F015	0212	3124	317F	10095	03/17/93	05/28/93	1	2,854
9400043	TW9891	F015	0212	3124	317F	10092	03/22/93	05/14/93	1	2,118
9400043	TX0063	F015	0212	3124	317F	SSM241	03/23/93	05/21/93	1	2,830
9400043	TX0064	F015	0212	3124	317F	SSM258	03/23/93	05/21/93	1	2,825
9400043	TX0065	F015	0212	3124	317F	SSM244	01/20/93	05/21/93	1	5,839
9400043	TX0066	F015	0212	3124	317F	AA10684	01/20/93	05/21/93	1	5,841
9400043	TX0067	F015	0212	3124	317F	AA10678	01/20/93	05/21/93	1	5,841
9400043	TX0068	F015	0212	3124	317F	SSM255	01/20/93	05/21/93	1	5,840
9400043	TX0069	F015	0212	3124	317F	AA10685	01/20/93	05/20/93	1	5,782
9400043	TX0070	F015	0212	3124	317F	SSM256	01/20/93	05/20/93	1	5,781
9400043	TX0071	F015	0212	3124	317F	AA10690	01/19/93	05/20/93	1	5,828
9400043	TX0072	F015	0212	3124	317F	AA10688	01/19/93	05/18/93	1	5,708
9400043	TX0073	F015	0212	3124	317F	SSM239	01/19/93	05/20/93	1	5,829
9400043	TX0074	F015	0212	3124	317F	AA10175	01/18/93	05/13/93	1	5,542
9400043	TX0075	F015	0212	3124	317F	AA10681	01/18/93	05/22/93	1	5,962
9400043	TX0076	F015	0212	3124	317F	SSM253	01/18/93	05/22/93	1	5,959
9400043	TX0077	F015	0212	3124	317F	AA10672	01/16/93	05/22/93	1	6,079
9400043	TX0078	F015	0212	3124	317F	AA10669	01/16/93	05/22/93	1	6,080
9400043	TX0079	F015	0212	3124	317F	SSM233	01/16/93	05/22/93	1	6,078
9400043	TX0080	F015	0212	3124	317F	AA10671	01/15/93	05/23/93	1	6,103
9400043	TX0081	F015	0212	3124	317F	AA10670	01/15/93	05/23/93	1	6,105
9400043	TX0082	F015	0212	3124	317F	AA10675	01/11/93	05/25/93	1	6,416
9400043	TX0083	F015	0212	3124	317F	AA10720	02/02/93	05/16/93	1	4,945
9400043	TX0084	F015	0212	3124	317F	AA10689	01/11/93	05/25/93	1	6,421
9400043	TX0085	F015	0212	3124	317F	AA10682	01/20/93	05/18/93	1	5,665
9400043	TX0086	F015	0212	3124	317F	SSM232	01/11/93	05/25/93	1	6,419
9400043	TX0087	F015	0212	3124	317F	AA10674	01/12/93	05/26/93	1	6,398
9400043	TX0088	F015	0212	3124	317F	AA10679	01/27/93	05/21/93	1	5,474
9400043	TX0089	F015	0212	3124	317F	SSM245	01/12/93	05/26/93	1	6,398
9400043	TX0090	F015	0212	3124	317F	DMT015	03/20/93	05/26/93	1	19,172
9400043	TX0091	F015	0212	3124	317F	SSM235	03/20/93	05/26/93	1	3,197
9400043	TX0092	F015	0212	3124	317F	LSU005	03/19/93	05/26/93	1	19,550
9400043	TX0093	F015	0212	3124	317F	SSM247	03/20/93	05/26/93	1	3,259
9400043	TX0094	F015	0212	3124	317F	SSM285	03/20/93	05/27/93	1	3,235
9400043	TX0095	F015	0212	3124	317F	DMT025	03/19/93	04/25/93	1	10,906
9400043	TX0096	F015	0212	3124	317F	SSM039	03/18/93	05/24/93	1	3,197
9400043	TX0097	F015	0212	3124	317F	DMT221	03/19/93	05/24/93	1	19,154
9400043	TX0098	F015	0212	3124	317F	LSU030	03/18/93	05/23/93	1	19,115
9400043	TX0099	F015	0212	3124	317F	SSM280	03/18/93	05/23/93	1	3,203
9400043	TX0100	F015	0212	3124	317F	DMT215	03/21/93	05/23/93	1	18,002
9400043	TX0101	F015	0212	3124	317F	DMT125	03/21/93	05/23/93	1	18,005
9400043	TX0102	F015	0212	3124	317F	SSM243	03/24/93	05/19/93	1	2,720

9400043	TX0103	F015	0212	3124	317F	DMT145	03/22/93	05/19/93	1	16,711
9400043	TX0104	F015	0212	3124	317F	SSM246	03/22/93	05/19/93	1	2,784
9400043	TX0105	F015	0212	3124	317F	DMT146	03/23/93	05/19/93	1	16,679
9400043	TX0106	F015	0212	3124	317F	SSM240	03/23/93	05/19/93	1	2,781
9400043	TX0107	F015	0212	3124	317F	AA9411	01/12/93	05/11/93	1	5,746
9400043	TX0108	F015	0212	3124	317F	AA10687	01/12/93	05/25/93	1	6,407
9400043	TX0109	F015	0212	3124	317F	SSM257	01/12/93	05/25/93	1	6,408
9400043	TX0110	F015	0212	3124	317F	AA9410	01/19/93	05/20/93	1	5,825
9400043	TX0111	F015	0212	3124	317F	7106_521	01/20/93	05/20/93	1	5,780
9400043	TX0112	F015	0212	3124	317F	08111788	03/18/93	05/19/93	1	2,975
9400043	TX0113	F015	0212	3124	317F	08111779	03/17/93	05/16/93	1	2,843
9400043	TX0114	F015	0212	3124	317F	08111780	03/21/93	05/15/93	1	2,599

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Corrections 9400043

① Record type '5', cols 28-33, Current Speed, East Component, Originator ~~values~~^{data}, -98670, and similar high ~~data~~ - these numbers were deleted

② Record type '5', cols 50-54, Practical salinity, originator data: salinity numbers higher than 37502psu were deleted. Examples, 39670, 40160, 38530.

6:

1:015TX0063200001271539N0971481W	14
2831:015TX0064200001271703N0965888W	11
5656:015TX0065200001271736N0964416W	13
11495:015TX0066200001270776N0962165W	190
17336:015TX0067200001270776N0962165W	100
23177:015TX0068200001270776N0962165W	12
29017:015TX0069200001272783N0960414W	100
34799:015TX0070200001272783N0960414W	13
40580:015TX0071200001274259N0953973W	190
46408:015TX0072200001274259N0953973W	100
52116:015TX0073200001274259N0953973W	13
57945:015TX0074200001275011N0950418W	190
63487:015TX0075200001275011N0950418W	100
69449:015TX0076200001275011N0950418W	14
75408:015TX0077200001274946N0941078W	190
81487:015TX0078200001274946N0941078W	100
87567:015TX0079200001274946N0941078W	15
93645:015TX0080200001274892N0933194W	190
99748:015TX0081200001274892N0933194W	100
105853:015TX0082200001275609N0924466W	190
112269:015TX0083200001275609N0924466W	100
117214:015TX0084200001275065N0920047W	190
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EOF:384731

0:

END ED. NO CORRECTIONS APPLIED

9400043

Texas A+M Univ.

1993

FOIS

LATEX-A

= INTERIM =

9-6-94

EVERYTHING REDONE

THAT IS, 1 HOUR ADDED!

@ ASGT TAMCURR30UT, 440, W74657

INV = TAMLINE

(LAST 4 cruises have been changed)
and some dates because of hour added

FOIS TX0063 - TX0114; TW9888 - TW9891

Gulf of Mexico

*TW9888.

deleted 11/21/94

384,731 records

on 1st tape DNADC*NOV01.
L39068

114
63
51

52
4
56

FOIS

DOIS P

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
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(61 rows affected)

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9400043	F015	TW9889	317F	3	2792	93/03/18	93/05/27
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9400043	F015	TW9891	317F	3	2118	93/03/22	93/05/14
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9400043	F022	TX0121	32UK	215	9427	93/04/26	93/05/11

(61 rows affected)

9400043

LATEX

Data Office
Texas-Louisiana Shelf Circulation Program
Geochemical and Environmental Research Group
Texas A&M University
College Station, Texas 77843-3149

September 30, 1992

Dr. Francis J. Mitchell
NOAA National Ocean Data Center
Data Acquisition and Management Branch
1825 Constitution Avenue, N. W.
Washington, D. C. 20235


Dear Dr. Mitchell,

Enclosed is a 9 track VAX backup tape containing hydrographic and current meter data collected in the Northern Gulf of Mexico as part of the MMS sponsored Louisiana Texas Shelf Circulation Program, LATEX A. The Program has been given the NODC project identification code 212. The hydrographic data are from 114 stations from Texas A&M University R/V GYRE cruise H01-CGY9205 which is also designated "LATEX A Hydrography Cruise 92A". The current meter data was that from 20 current meters recovered from fixed moorings by personnel aboard Texas A&M University JW POWELL cruise M02-CPW9205.

These data are "Provisional Submissions" from the LATEX A program and are subject to revision. Final submission will occur at the end of the LATEX program. These data are not to be distributed by NODC without the permission of the LATEX A Program Manager, Dr. Worth Nowlin, as set forth in the Policy for Data Sharing, LATEX Shelf Physical Oceanography Program (copy attached). All files are self documenting. A VMS directory listing of all files on the tape is enclosed.

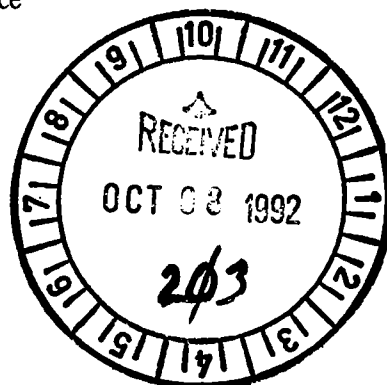
We have attempted to use NODC's developmental personal computer program to document the enclosed data. We have encountered numerous bugs and crashes. We will continue to work with the NODC personnel involved with the documentation computer program to resolve these problems and will submit electronic documentation for this tape when successful. If you have any questions regarding this data, contact me by phone at 409 862 2321, by email at LATEX@gergo.tamu.edu, or by OMNET at n.guinasso. Please sign a copy of this letter and return it to the LATEX Data Office indicating receipt of the tape.

Sincerely,


Norman L. Guinasso, Jr.
Head, LATEX Data Office

Enclosures: 9 track tape, Data Policy, List of Files

Received by: _____ Date: _____



WISKIN
BOTTLE

CRUISE = 93E

9400043

Lφ1767

LATEX-A

≈ INTERIM =

① ASG, T TAM STADUT, U40, W62387

10: 1 50

** PROVISIONAL DATA SUBMISSION 09 March 1994
** LATEX DATA OFFICE Texas A&M University
** Geochemical and Environmental Research Group
** College Station TX 77843-3149 (409) 862-2321
**
** Preliminary Data Subject to Revision
** Not to be release without permission
** of LATEX A Program Manager (409) 845-6714
**
** Please communicate any errors found in this data set to:
** Dr. Denis Wiesenburg
** Texas A&M University
** Geochemical and Environmental Research Group
** College Station, TX 77843-3149 (409) 862-2323

\$ LATEX VERSION MODIFIED 09-March-1994

NISKIN BOTTLE DATA

DATA FORMAT: ASCII, POSITION DELIMITED, MAX LINE 132

FORTRAN FORMAT DESCRIPTION:

(a3,1x,15,1x,F8.5,1x,F9.5,1x,I4,F6.1,1x,F8.3,1x,7(F6.2,1x),18,1x,F6.2)

PARAMETER	POSITION	FORMAT	DESCRIPTION	UNITS
CRUISE	1	A3	Cruise designator	Year and Sequence
STA	5	I5	Station id	station number
LAT	12	F8.5	Latitude	degrees
LONG	21	F9.5	Longitude	degrees
NISK	31	I4	Niskin Bottle Number	bottle number
DEPTH	36	F6.1	Depth	meters
SALINITY	43	F8.3	Salinity	psu
O2	52	F6.2	dissolved oxygen	milli-liters/liter
PO4	59	F6.2	Phosphate	umol/l
NO3	66	F6.2	Nitrate	umol/l
NO2	73	F6.2	Nitrite	umol/l
SiO3	80	F6.2	Silicate	umol/l
NH4	87	F6.2	Ammonium	umol/l
UREA	94	F6.2	Urea	umol/l
Chl-A	101	I8	Chlorophyll-A	nanograms/liter
SPM	110	F6.2	Suspended Particulate Material	milligrams/liter

These data are from Cruise 93e (aka H05CGY9306, aka the fifth Hydrographic cruise of the LATEX A Program) conducted 25 April - 11 May 1993 aboard the Texas A&M University research vessel J.W. Powell.

ANALYSIS METHODS

Nutrient Analysis Methods

50:>p 51 100

For Silicate, Phosphate, Nitrate and Nitrite:

Atlas, E.L., L.I. Gordon, S.W. Hager and P.K. Park. 1971. A practical manual for use of the Technicon AutoAnalyzer in seawater nutrient analysis (revised). Tech Report 215, Department of Oceanography, Oregon State University, Corvallis, Oregon (49 pages).

For Ammonium:

Grasshoff, K. 1970. A simultaneous multiple channel system for nutrient analysis in seawater with analog and digital record. Technicon Quarterly 3: 7-17

Lowy, R.G. and J.J. MacIsaac. 1972. Comparison of two automated ammonium methods in a region of coastal upwelling. Deep-Sea Res. 19: 521-524.

For Area:

Not, A. and R. Keravel. 1982. Dosage automatique de l'urée dans l'eau de mer: une méthode très sensible à la diacetyl monoxime. Can. J. Fish. Aquat. Sci. 39: 174-183.

Dissolved Oxygen Method

Samples were analyzed for dissolved oxygen by the microWinkler technique (Carpenter, 1965a,b). The procedure calls for sampling seawater from the Niskin bottle into a glass flask without allowing any atmospheric oxygen to be trapped in the bottle. The sample is then "pickled" with a mixture of manganous hydroxide and alkaline iodide to fix the oxygen in the sample. After the oxygen is trapped in the resultant floc and settles to the bottom, the sample is acidified and titrated with sodium thiosulfate to a starch endpoint. The microWinkler method has a precision of 0.01 ml/l oxygen at STP.

Carpenter, J.H. 1965a. The accuracy of the Winkler method for dissolved oxygen. Limnology and Oceanography 10: 135-140.

Carpenter, J.H. 1965b. The Chesapeake Bay Institute technique for the Winkler oxygen method. Limnology and Oceanography 10: 141-143.

Salinity Analysis Method

Samples for salinity analysis were collected in 200-ml glass bottles that had been pre-conditioned. The bottles were triple rinsed with sample water before collection. Salinity samples were analyzed aboard ship using a Guildline Model 8400 Autosol Laboratory Salinometer. The Autosol system measures a conductivity ratio relative to standard seawater. Each sample is measured three times to assure an accurate analysis. The salinity sample is held at a constant temperature in a water bath while the conductivity ratio is