

# TUMSAT-OACIS Repository - Tokyo

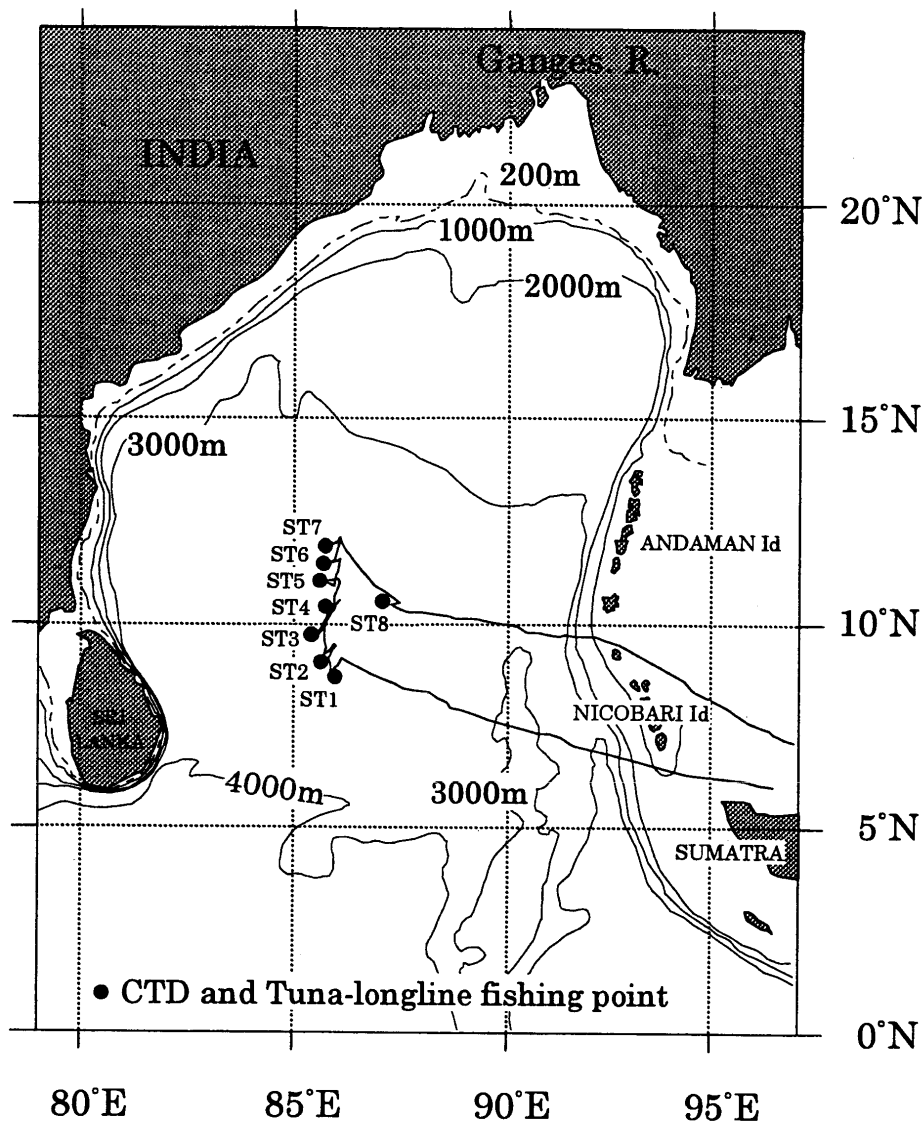
University of Marine Science and Technology

(東京海洋大学)

第二部 神鷹丸航海調査報告 第40次航海報告 期間  
平成9年12月～平成10年3月 海域 ベンガル湾

メタデータ	言語: jpn 出版者: 公開日: 2008-04-10 キーワード (Ja): キーワード (En): 作成者: メールアドレス: 所属:
URL	<a href="https://oacis.repo.nii.ac.jp/records/210">https://oacis.repo.nii.ac.jp/records/210</a>

2.1.1. 観測海域図 Observation Leg Chart



2.1.2 CTD観測表 CTD Observation List

St.No.	Time (SMT)	GMT	Lat.	Long.	A.Temp (°C)	W.Temp (°C)	Depth (m)	Wind Dir.	Wind S'd (m/s)
980210S2	2/10 06:53	2/10 00:53	09-05.62N	085-29.93E	27.6	28.6	3546	NE	9.3
980211S3	2/11 06:45	2/10 23:45	09-41.81N	085-21.75E	28.5	27.3	3652	NE	8.1
980212S4	2/12 06:09	2/11 23:09	10-16.83N	085-47.30E	26.9	28.3	3500	NE	6.4
980213S5	2/13 06:50	2/12 23:50	10-59.12N	085-35.11E	26.7	28.0	3414	ENE	4.3
980214S6	2/14 07:05	2/14 00:05	11-22.40N	085-36.32E	26.7	28.1	3400	ENE	6.4
980215S7	2/15 06:54	2/14 23:54	11-44.07N	085-42.26E	26.4	28.1	3352	ENE	5.0
980216S8	2/16 06:08	2/15 23:08	10-28.48N	087-09.01E	26.7	28.4	3429	NE	2.5

### 2.1.3. CTD 観測データ CTD Observation Data

STATION - 3 SY9802 11 DEPTH - 000046 M  
 DATE - 1998/02/11 POSITION LAT. - 09° 41.81 N  
 TIME - 06:43 LONG. - 085° 21.75 E

DATA TYPE = PROCESS

Press. (db)	Temp. (° C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	28.273	32.487	20.419	1539.2	4.54	3.81
1.0	28.270	32.491	20.424	1539.2	4.54	3.80
2.0	28.288	32.622	20.516	1539.5	4.53	3.69
3.0	28.293	32.723	20.590	1539.6	4.53	3.69
4.0	28.287	32.727	20.595	1539.7	4.53	3.71
5.0	28.283	32.729	20.598	1539.7	4.53	3.67
10.0	28.293	32.738	20.601	1539.8	4.53	3.67
15.0	28.297	32.744	20.605	1539.9	4.53	3.64
20.0	28.294	32.746	20.607	1540.0	4.53	3.67
25.0	28.298	32.748	20.607	1540.1	4.53	3.63
30.0	28.295	32.750	20.610	1540.1	4.53	3.68
40.0	28.297	32.752	20.611	1540.3	4.53	3.69
50.0	28.314	32.792	20.635	1540.6	4.53	3.67
75.0	26.419	33.452	21.737	1537.6	4.65	3.13
100.0	23.576	34.558	23.433	1532.5	4.86	1.16
125.0	19.163	34.778	24.811	1521.4	5.25	0.44
150.0	16.778	34.867	25.466	1515.0	5.49	0.19
200.0	14.001	34.951	26.150	1507.1	5.81	0.24
250.0	12.282	34.995	26.532	1502.3	6.01	0.20
300.0	11.602	35.012	26.674	1500.7	6.10	0.36
400.0	10.591	34.999	26.849	1498.8	6.24	0.21
500.0	9.900	35.002	26.971	1497.9	6.33	0.39
506.8	9.855	34.999	26.977	1497.8	6.34	0.38

STATION - 2 SY9802 10 DEPTH - 003000 M  
 DATE - 1998/02/10 POSITION LAT. - 09° 05.69 N  
 TIME - 06:52 LONG. - 085° 30.05 E

DATA TYPE = PROCESS

Press. (db)	Temp. (° C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	28.387	29.425	18.086	1534.3	4.61	3.84
1.0	28.387	29.569	18.195	1534.6	4.60	3.84
2.0	28.393	32.536	20.418	1539.6	4.53	3.77
3.0	28.401	32.532	20.411	1539.6	4.53	3.61
4.0	28.397	32.535	20.415	1539.6	4.53	3.63
5.0	28.403	32.538	20.416	1539.7	4.53	3.62
10.0	28.403	32.538	20.416	1539.7	4.53	3.63
15.0	28.404	32.538	20.416	1539.8	4.53	3.65
20.0	28.400	32.539	20.418	1539.9	4.53	3.61
25.0	28.406	32.539	20.415	1540.0	4.53	3.55
30.0	28.412	32.538	20.413	1540.1	4.53	3.51
40.0	28.415	32.544	20.416	1540.3	4.53	3.52
50.0	28.354	32.862	20.675	1540.7	4.52	3.52
75.0	24.644	33.687	22.458	1533.7	4.79	2.52
100.0	21.928	34.391	23.777	1528.1	5.00	1.54
125.0	19.892	34.612	24.495	1523.3	5.19	0.99
150.0	16.850	34.832	25.422	1515.1	5.49	0.56
200.0	13.840	34.964	26.193	1506.6	5.82	0.35
250.0	12.521	34.991	26.482	1503.1	5.98	0.22
300.0	11.771	34.997	26.631	1501.3	6.08	0.22
400.0	10.674	34.999	26.834	1499.1	6.22	0.28
500.0	9.925	34.995	26.961	1498.0	6.33	0.29
501.9	9.915	34.996	26.964	1498.0	6.33	0.28

STATION - 4 SY9802 12 DEPTH - 003500 M  
 DATE - 1998/02/12 POSITION LAT. - 10° 16.84 N  
 TIME - 06:08 LONG. - 085° 47.35 E

DATA TYPE = PROCESS

Press. (db)	Temp. (° C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	28.101	33.067	20.911	1539.7	4.54	3.81
1.0	28.102	33.064	20.909	1539.7	4.54	3.81
2.0	28.117	33.084	20.919	1539.7	4.53	3.76
3.0	28.135	33.084	20.913	1539.8	4.53	3.67
4.0	28.117	33.082	20.917	1539.8	4.53	3.67
5.0	28.107	33.084	20.922	1539.8	4.54	3.67
10.0	28.105	33.085	20.924	1539.9	4.54	3.69
15.0	28.113	33.087	20.922	1540.0	4.53	3.73
20.0	28.116	33.086	20.921	1540.0	4.53	3.68
25.0	28.116	33.086	20.921	1540.1	4.53	3.66
30.0	28.120	33.086	20.920	1540.2	4.53	3.62
40.0	28.121	33.086	20.919	1540.4	4.53	3.66
50.0	28.124	33.086	20.918	1540.5	4.53	3.64
75.0	27.624	34.255	21.959	1541.3	4.54	2.96
100.0	22.435	34.559	23.762	1529.6	4.95	1.29
125.0	18.942	34.802	24.885	1520.8	5.27	0.42
150.0	16.704	34.860	25.478	1514.7	5.50	0.29
200.0	13.766	34.958	26.204	1506.4	5.83	0.26
250.0	12.340	35.000	26.525	1502.5	6.01	0.36
300.0	11.582	35.001	26.670	1500.7	6.10	0.28
400.0	10.589	35.012	26.859	1498.8	6.24	0.42
500.0	9.815	34.987	26.974	1497.6	6.34	0.61
504.0	9.786	34.989	26.980	1497.5	6.35	0.62

STATION - 5 SY9802 13  
 DATE - 1998/02/13  
 TIME - 06:50

DEPTH - 003414 M  
 POSITION LAT. - 10° 59.12 N  
 LONG. - 085° 35.11 E

STATION - 7 SY9802 15  
 DATE - 1998/02/15  
 TIME - 06:54

DEPTH - 003352 M  
 POSITION LAT. - 11° 44.08 N  
 LONG. - 085° 42.26 E

DATA TYPE = PROCESS

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	27.825	33.065	20.999	1539.0	4.56	3.33
1.0	27.844	33.055	20.986	1539.1	4.56	3.46
2.0	27.864	33.047	20.973	1539.1	4.55	3.65
3.0	27.874	33.048	20.971	1539.2	4.55	3.67
4.0	27.880	33.046	20.967	1539.2	4.55	3.69
5.0	27.873	33.047	20.971	1539.2	4.55	3.72
10.0	27.871	33.049	20.972	1539.3	4.55	3.71
15.0	27.876	33.048	20.970	1539.4	4.55	3.68
20.0	27.877	33.048	20.970	1539.5	4.55	3.69
25.0	27.878	33.048	20.969	1539.5	4.55	3.66
30.0	27.881	33.049	20.969	1539.6	4.55	3.70
40.0	28.147	33.553	21.261	1541.0	4.52	3.69
50.0	28.055	33.606	21.331	1541.1	4.53	3.68
75.0	27.879	34.195	21.831	1541.8	4.52	3.61
100.0	22.215	34.679	23.915	1529.2	4.97	0.80
125.0	18.896	34.813	24.906	1520.7	5.28	0.32
150.0	17.123	34.856	25.376	1516.0	5.46	0.25
200.0	14.276	34.939	26.082	1508.0	5.77	0.18
250.0	12.718	35.017	26.463	1503.8	5.96	0.35
300.0	11.856	35.015	26.629	1501.6	6.07	0.51
400.0	10.810	35.002	26.812	1499.5	6.21	0.24
500.0	10.027	34.991	26.941	1498.3	6.31	0.19
506.6	9.967	34.993	26.953	1498.2	6.32	0.21

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	27.807	33.187	21.097	1539.2	4.55	2.92
1.0	27.804	33.188	21.099	1539.2	4.56	2.89
2.0	27.871	33.156	21.053	1539.3	4.55	3.59
3.0	27.856	33.152	21.055	1539.3	4.55	3.70
4.0	27.856	33.154	21.056	1539.3	4.55	3.70
5.0	27.854	33.155	21.057	1539.3	4.55	3.73
10.0	27.857	33.156	21.057	1539.4	4.55	3.62
15.0	27.869	33.157	21.054	1539.5	4.55	3.65
20.0	27.867	33.156	21.054	1539.6	4.55	3.62
25.0	27.867	33.156	21.054	1539.7	4.55	3.76
30.0	27.867	33.156	21.054	1539.7	4.55	3.82
40.0	27.880	33.278	21.141	1540.1	4.55	3.85
50.0	27.883	33.296	21.154	1540.3	4.55	3.85
75.0	27.751	34.254	21.917	1541.6	4.53	3.58
100.0	22.547	34.701	23.838	1530.1	4.94	1.12
125.0	19.869	34.818	24.659	1523.5	5.18	0.35
150.0	18.129	34.842	25.120	1518.9	5.35	0.25
200.0	14.569	34.929	26.012	1508.9	5.74	0.19
250.0	12.870	34.986	26.409	1504.2	5.94	0.21
300.0	11.974	34.999	26.594	1502.0	6.05	0.25
400.0	10.830	34.995	26.803	1499.6	6.20	0.24
500.0	10.003	34.987	26.942	1498.2	6.32	0.32
500.9	9.995	34.988	26.944	1498.2	6.32	0.32

STATION - 6 SY9802 14  
 DATE - 1998/02/14  
 TIME - 07:05

DEPTH - 003400 M  
 POSITION LAT. - 11° 22.40 N  
 LONG. - 085° 36.32 E

STATION - 8 SY9802 16  
 DATE - 1998/02/16  
 TIME - 06:08

DEPTH - 003429 M  
 POSITION LAT. - 10° 28.48 N  
 LONG. - 087° 09.01 E

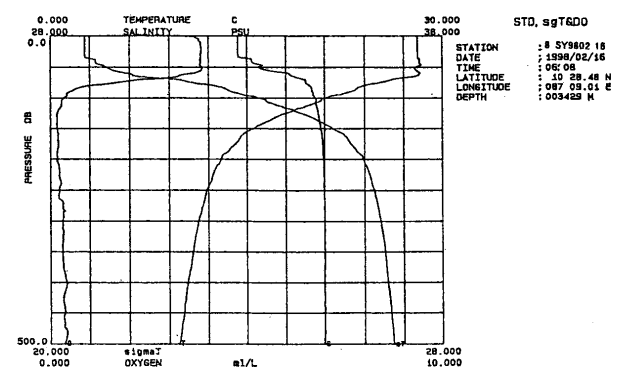
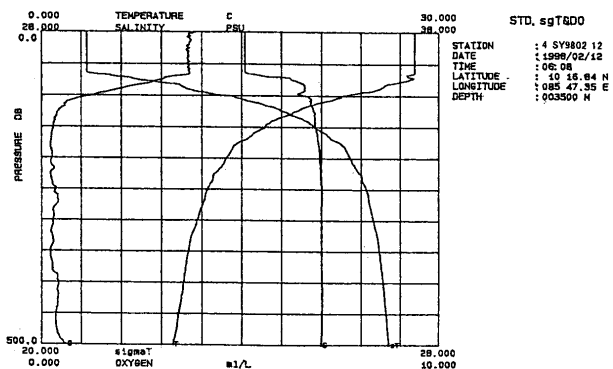
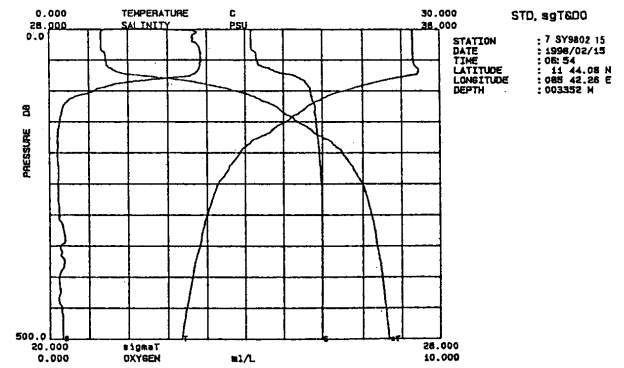
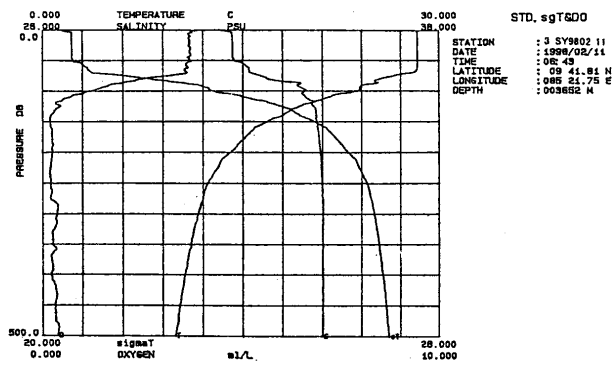
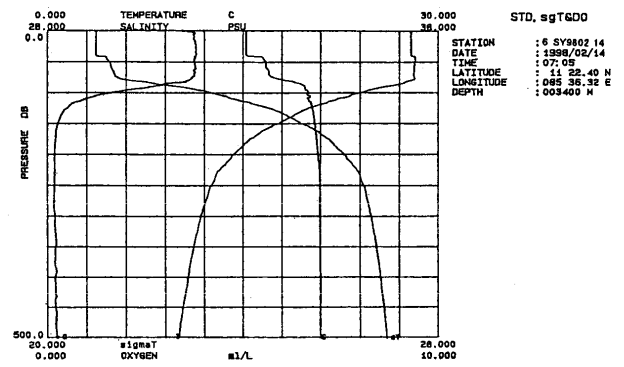
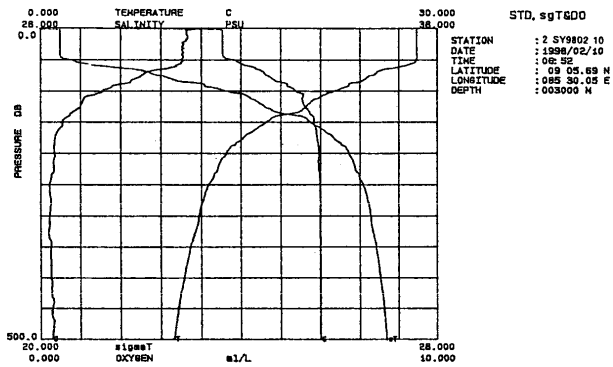
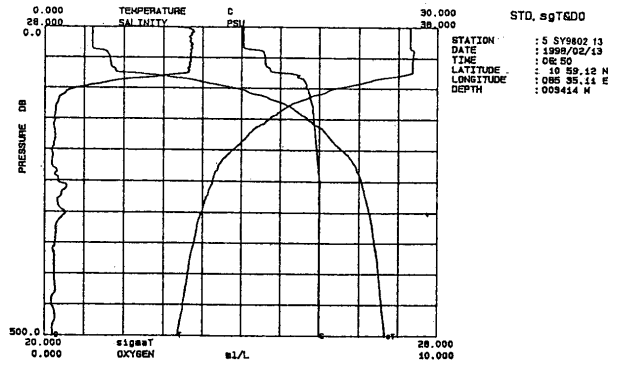
DATA TYPE = PROCESS

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	27.861	33.083	21.001	1539.1	4.55	3.41
1.0	27.867	33.082	20.999	1539.2	4.55	3.43
2.0	27.873	33.076	20.992	1539.2	4.55	3.59
3.0	27.874	33.079	20.994	1539.2	4.55	3.73
4.0	27.874	33.076	20.992	1539.2	4.55	3.74
5.0	27.872	33.077	20.993	1539.2	4.55	3.73
10.0	27.871	33.076	20.993	1539.3	4.55	3.73
15.0	27.879	33.078	20.991	1539.4	4.55	3.73
20.0	27.891	33.078	20.988	1539.5	4.55	3.74
25.0	27.892	33.077	20.986	1539.6	4.55	3.78
30.0	27.891	33.076	20.987	1539.7	4.55	3.77
40.0	27.914	33.114	21.007	1540.0	4.55	3.78
50.0	28.157	33.577	21.276	1541.3	4.52	3.75
75.0	28.132	33.778	21.435	1541.9	4.52	3.68
100.0	24.017	34.687	23.401	1533.8	4.82	1.65
125.0	20.001	34.785	24.599	1523.8	5.17	0.50
150.0	17.605	34.838	25.246	1517.4	5.41	0.26
200.0	14.231	34.934	26.088	1507.9	5.78	0.18
250.0	12.497	34.988	26.484	1503.0	5.99	0.17
300.0	11.663	34.984	26.641	1500.9	6.09	0.19
400.0	10.706	34.999	26.829	1499.2	6.22	0.20
500.0	9.997	34.998	26.951	1498.2	6.32	0.25
600.0	9.292	34.982	27.057	1497.2	6.42	0.34
700.0	8.635	34.962	27.147	1496.4	6.51	0.51
800.0	8.025	34.944	27.227	1495.7	6.60	0.59
900.0	7.452	34.923	27.295	1495.1	6.69	0.71
1000.0	6.782	34.902	27.372	1494.0	6.80	0.84
1006.0	6.748	34.900	27.375	1494.0	6.80	0.85

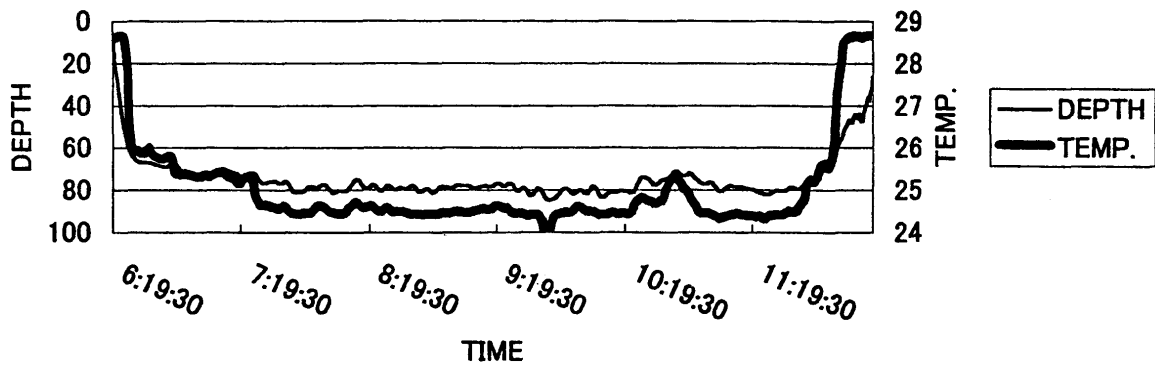
Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	S-Vel. (m/s)	S-Oxy (ml/L)	Oxy (ml/L)
0.0	28.010	32.770	20.717	1539.0	4.55	3.19
1.0	28.044	32.762	20.701	1539.1	4.55	3.44
2.0	28.059	32.764	20.697	1539.2	4.55	3.66
3.0	28.052	32.763	20.699	1539.2	4.55	3.67
4.0	28.057	32.765	20.699	1539.2	4.55	3.68
5.0	28.059	32.765	20.698	1539.2	4.55	3.72
10.0	28.064	32.766	20.697	1539.3	4.55	3.78
15.0	28.064	32.766	20.697	1539.4	4.55	3.79
20.0	28.065	32.767	20.698	1539.5	4.55	3.82
25.0	28.071	32.766	20.695	1539.6	4.55	3.81
30.0	28.061	32.767	20.699	1539.6	4.55	3.79
40.0	28.193	33.126	20.926	1540.6	4.53	3.79
50.0	27.853	33.310	21.174	1540.2	4.55	3.85
75.0	25.154	34.516	22.931	1535.9	4.73	1.70
100.0	20.949	34.759	24.326	1525.9	5.08	0.33
125.0	17.922	34.837	25.167	1517.9	5.38	0.17
150.0	15.493	34.910	25.794	1511.1	5.63	0.17
200.0	12.944	34.977	26.387	1503.7	5.93	0.17
250.0	11.806	34.989	26.619	1500.6	6.08	0.22
300.0	11.222	35.003	26.738	1499.4	6.15	0.31
400.0	10.374	34.994	26.883	1498.0	6.27	0.40
500.0	9.693	34.995	27.000	1497.1	6.36	0.36
500.0	9.693	34.995	27.000	1497.1	6.36	0.36

## 2.1.4. CTD 鉛直プロファイル CTD Observation Profiles

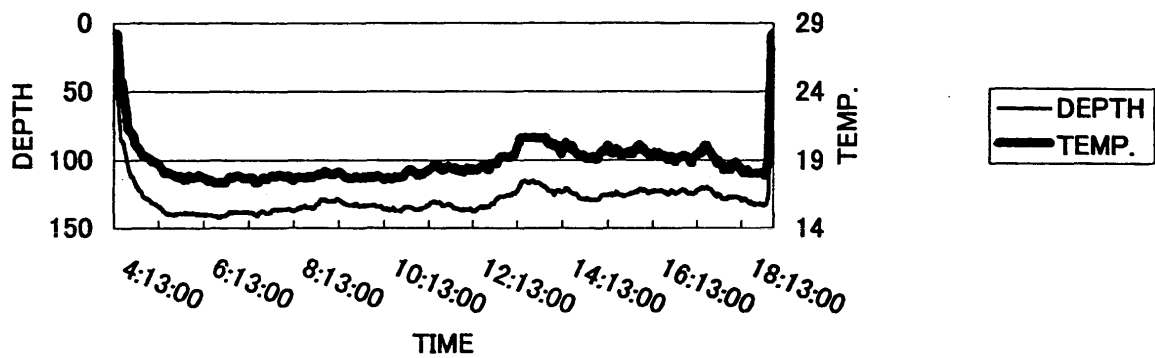


2.1.5. 深度計・水温計データ Records of Thermometer and Depth Meter

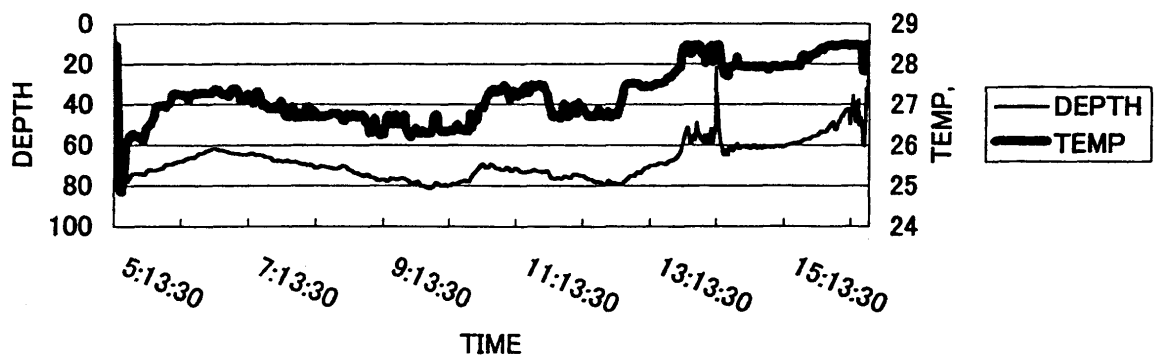
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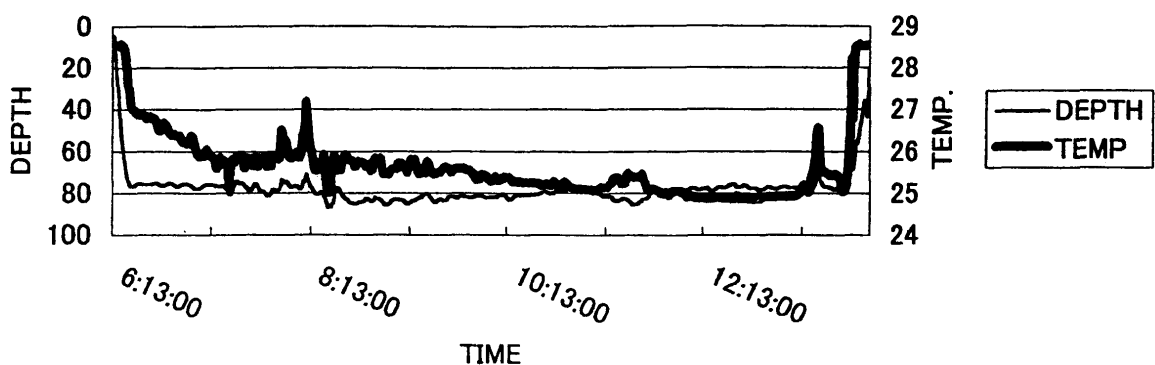
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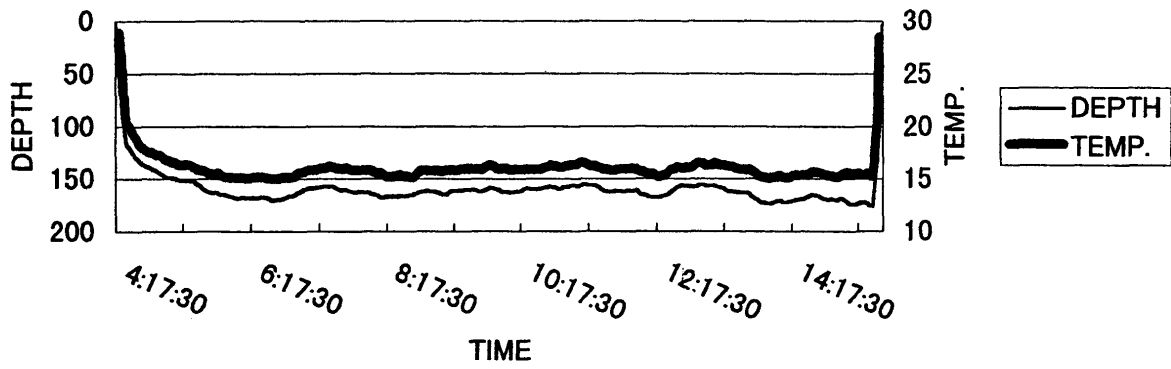
980211RMTRMD(3)



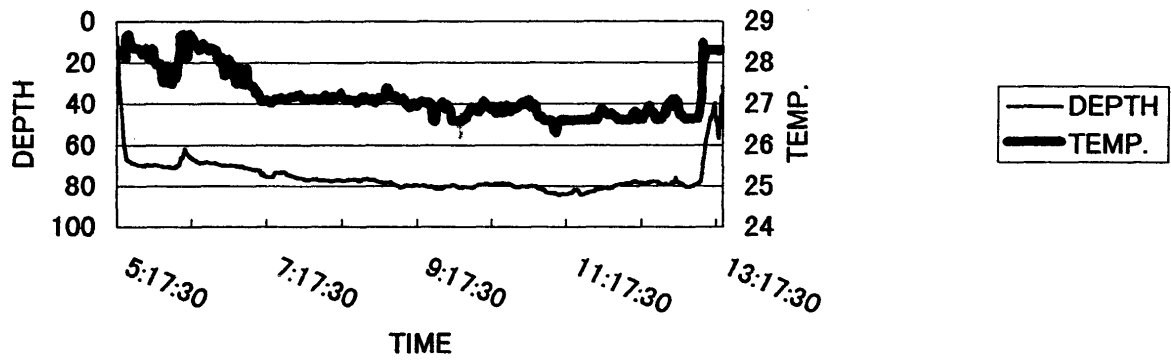
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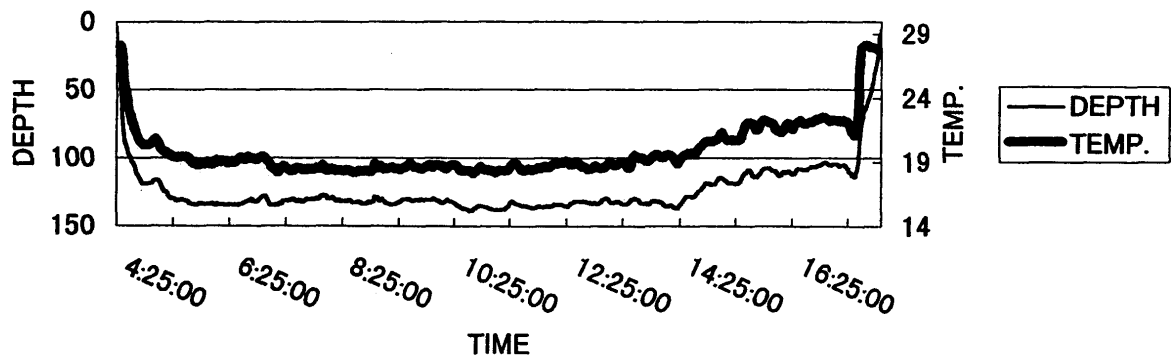
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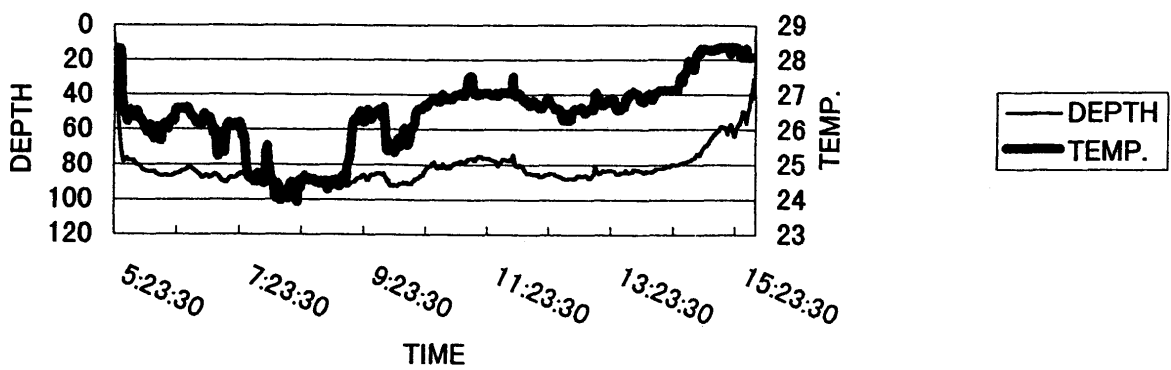
980212RMTRMD(3)



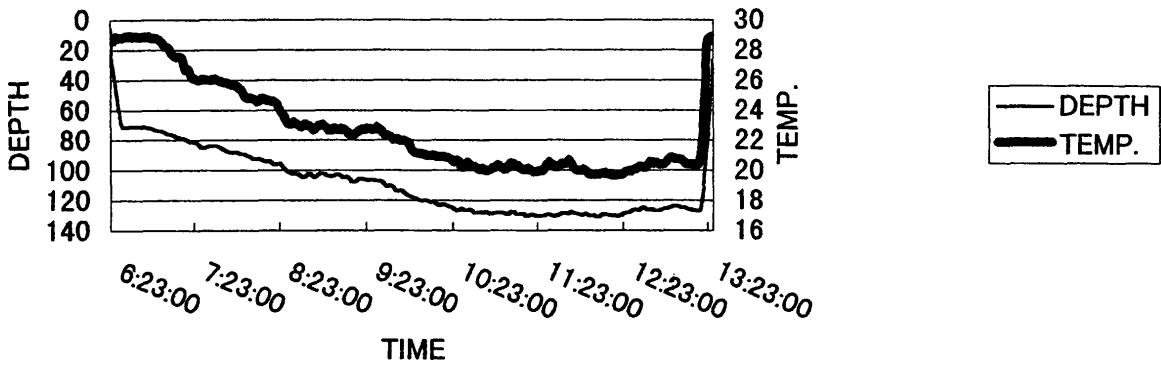
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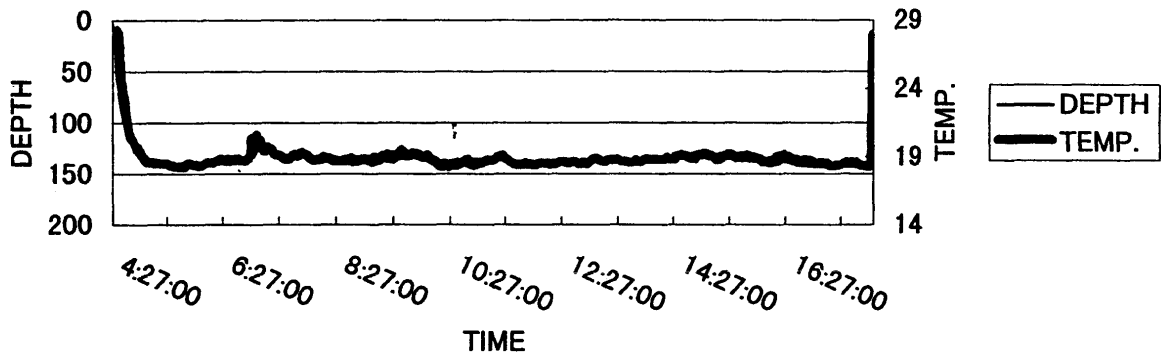
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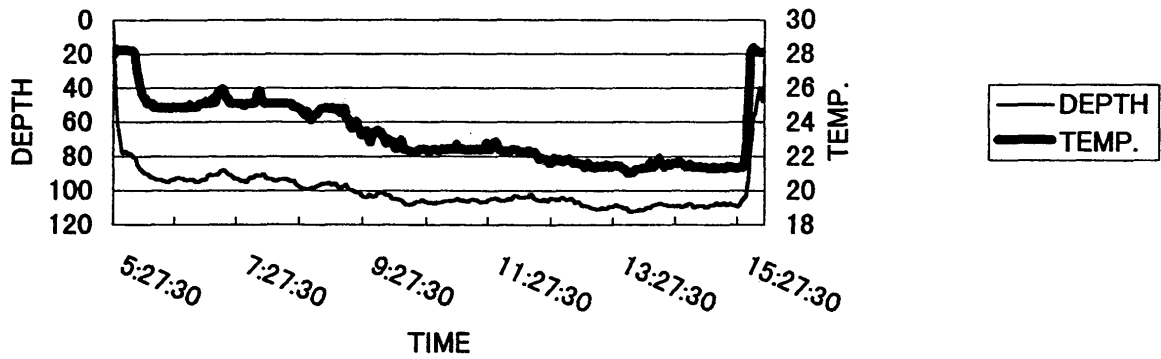
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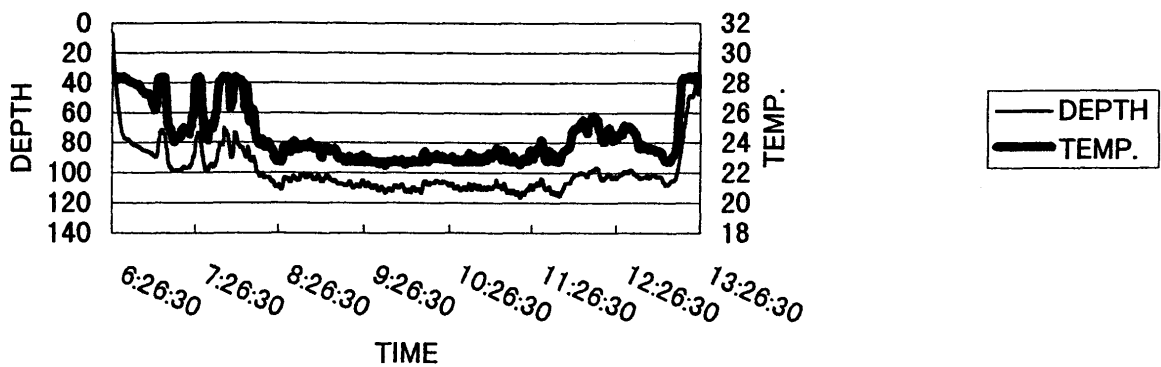
980214RMTRMD(2)



980214RMTRMD(3)

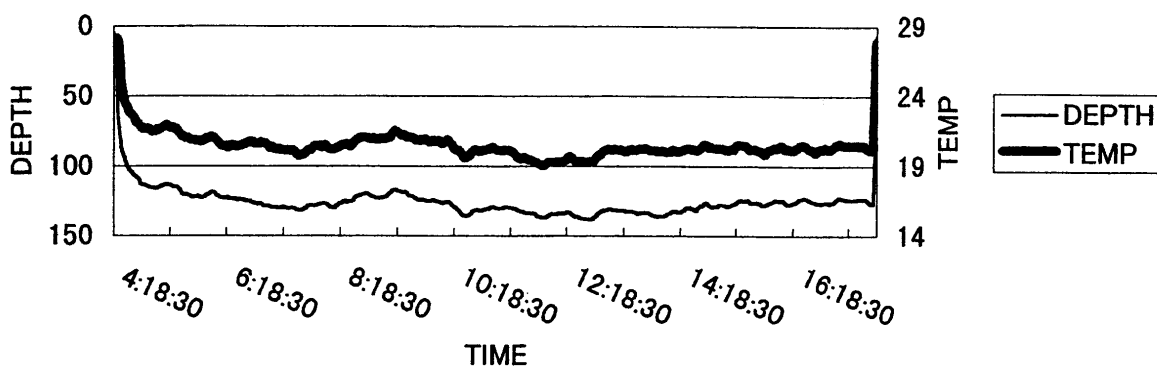


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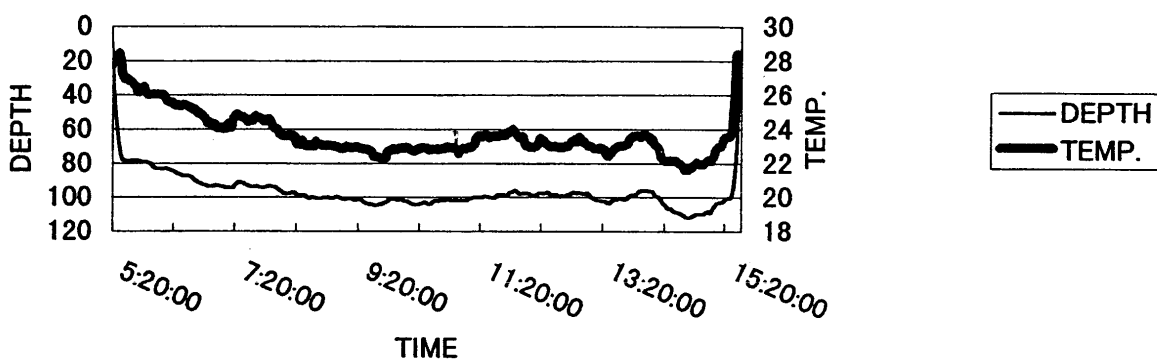




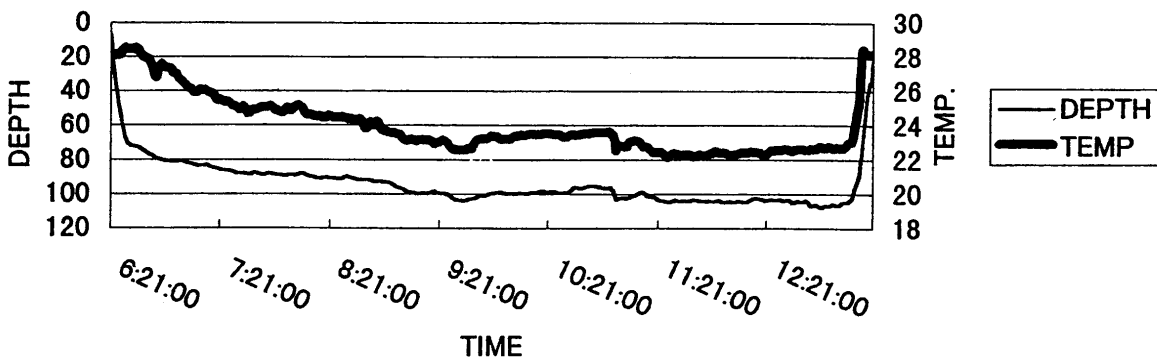
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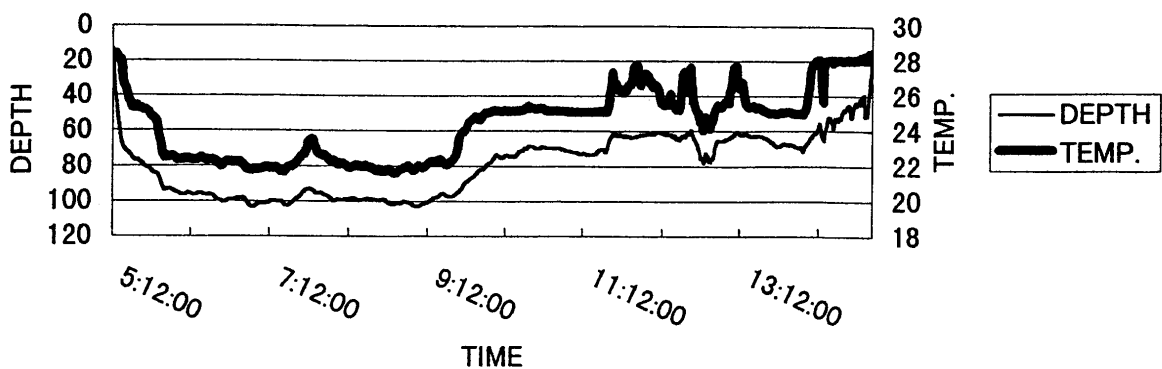
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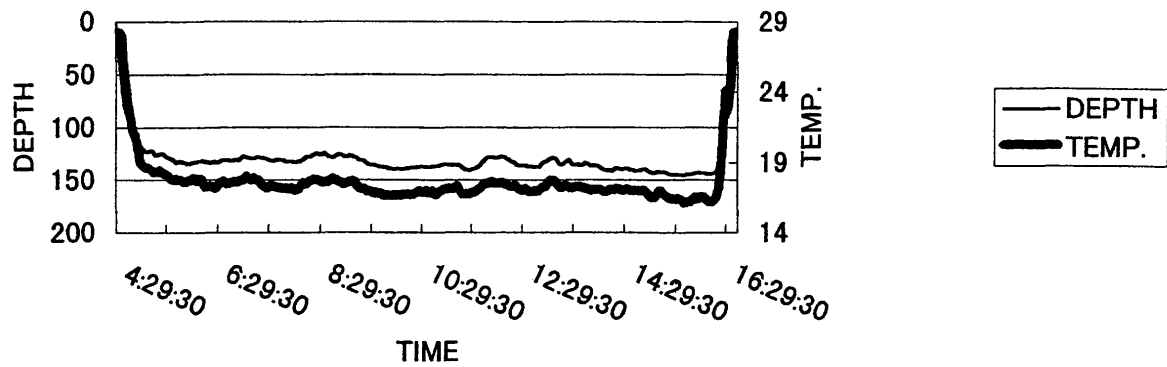
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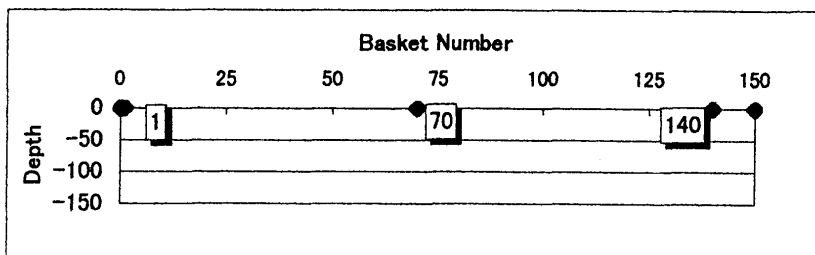
980216RMTRMD(2)



980216RMTRMD(3)



Setting Position of Depth & Temperature meter in Longline						
Graph Name	Date	Time	Total Basket No.	Basket No.	Branch No.	Remark
980209RMTRMD(2)	1998.02.09	SMT=GMT+6h00m	100	25	3	
980209RMTRMD(3)	1998.02.09	SMT=GMT+6h00m	100	50	3	
980210RMTRMD(2)	1998.02.10	SMT=GMT+6h00m	150	50	3	08:00 ah'd 60min
980210RMTRMD(3)	1998.02.10	SMT=GMT+6h00m	150	100	3	08:00 ah'd 60min
980210RMTRMD(4)	1998.02.10	SMT=GMT+6h00m </td <td>150</td> <td>140</td> <td>3</td> <td>08:00 ah'd 60min</td>	150	140	3	08:00 ah'd 60min
980211RMTRMD(2)	1998.02.11	SMT=GMT+7h00m	150	1	3	
980211RMTRMD(3)	1998.02.11	SMT=GMT+7h00m	150	70	3	
980211RMTRMD(4)	1998.02.11	SMT=GMT+7h00m	150	140	3	
980212RMTRMD(2)	1998.02.12	SMT=GMT+7h00m	80	1	3	
980212RMTRMD(3)	1998.02.12	SMT=GMT+7h00m	80	70	3	
980213RMTRMD(2)	1998.02.13	SMT=GMT+7h00m	150	1	3	
980213RMTRMD(3)	1998.02.13	SMT=GMT+7h00m	150	70	3	
980213RMTRMD(4)	1998.02.13	SMT=GMT+7h00m	150	140	3	
980214RMTRMD(2)	1998.02.14	SMT=GMT+7h00m	150	1	3	
980214RMTRMD(3)	1998.02.14	SMT=GMT+7h00m	150	70	3	
980214RMTRMD(4)	1998.02.14	SMT=GMT+7h00m	150	140	3	
980215RMTRMD(2)	1998.02.15	SMT=GMT+7h00m	150	1	3	
980215RMTRMD(3)	1998.02.15	SMT=GMT+7h00m	150	70	3	
980215RMTRMD(4)	1998.02.15	SMT=GMT+7h00m	150	140	3	
980216RMTRMD(2)	1998.02.16	SMT=GMT+7h00m	100	1	3	
980216RMTRMD(3)	1998.02.16	SMT=GMT+7h00m	100	50	3	



\* 1Basket=280m 150Baskets=42000m=42km=22.7mile

Fig 1 . Sensor position of Tuna longline

### 2.1.6. 漁獲物測定表 Biological Data of Tuna and Billfish

St.No.	Date	St.Position	Spices	Fork Length(cm)	Body Weight(Kg)	Sex	Gonad weight(g)	Stomach Contents
1	1998.02.09	08-43.717N,085-44.106E Basket Quantity : 100	Indo-Pacific sailfish	173.0	15.5	m	20	Smallfish
			Indo-Pacific sailfish	175.0	20.0	m	100	Nil
			Yellowfin	50.0	2.3			Smallfish,Squid
			Yellowfin	115.0	23.0	m	100	Nil
2	1998.02.10	09-03.047N,085-27.863E Basket Quantity : 150	Indo-Pacific blue marlin	235.0	111.0	m	730	Smallfish
			Yellowfin	105.0	21.0	m	170	Squid
			Yellowfin	53.0	2.7	m	5	Smallfish
			Indo-Pacific sailfish	180.0	24.0	f		Mackerel
			Yellowfin	100.0	23.8	m	20	Squid
			Indo-Pacific sailfish	155.0	13.0	m		Squid,Mackerel
			Indo-Pacific sailfish	170.0	15.0	f		Squid,Mackerel
			Yellowfin	150.0	43.0	m	550	Nil
			Yellowfin	123.0	30.0	f	220	Squid
			Yellowfin	135.0	40.0	m	290	Nil
			Indo-Pacific sailfish	190.0	29.0	m	5	Nil
			Yellowfin	100.0	19.0	m	20	Nil
			3	1998.02.11	09-39.570N,085-21.630E Basket Quantity : 150	Yellowfin	120.0	34.0
Yellowfin	125.0	36.0				m	1010	Squid,Mackerel
Swordfish	115.0	20.0				m	10	Nil
Yellowfin	95.0	19.5				m	70	Squid,Mackerel
Yellowfin	135.0	43.0				f	515	Squid,Mackerel
Yellowfin	120.0	34.0				f	180	Mackerel
Bigeye tuna	130.0	44.5				m		
Yellowfin	120.0	35.0				m	90	Squid,Mackerel
Swordfish	100.0	10.0				m	390	Smallfish
Yellowfin	115.0	31.5				m	155	Smallfish
Yellowfin	50.0	3.0				m		Nil
Swordfish	175.0	50.0				m	90	Squid,Smallfish
4	1998.02.12	10-15.665N,085-46.800E Basket Quantity : 80				Bigeye tuna	150.0	67.0
			Indo-Pacific sailfish	150.0	13.0	f	3	Squid,Smallfish
			Indo-Pacific sailfish	170.0	16.0	f	3	Squid
5	1998.02.13	10-58.110N,085-33.864E Basket Quantity : 150	Bigeye tuna	155.0	70.0	m	400	Nil
			Yellowfin	158.0	74.0	m	885	Nil
			Indo-Pacific sailfish	153.0	10.0	f	5	Squid,Mackerel
			Indo-Pacific sailfish	164.0	14.0	m	5	Squid,Smallfish
			Indo-Pacific sailfish	155.0	11.0	f		Smallfish
			Swordfish	116.0	14.0	m	1	Shrimp,Smallfish
			Striped marlin	230.0	35.0	f	695	Nil
6	1998.02.14	11-22.037N,085-36.721E Basket Quantity : 150	Swordfish	150.0	31.5			Squid
			Striped marlin	190.0	43.0	f	75	Squid
			Swordfish	75.0	4.0			
			Indo-Pacific sailfish	175.0	17.0	f	15	Mackerel
			Indo-Pacific sailfish	146.0	13.7	f	3	Smallfish
			Yellowfin	115.0	27.4	m	210	Nil
			Indo-Pacific sailfish	147.0	13.1	f	5	Squid,Mackerel
			Yellowfin	135.0	48.0	m	500	Squid,Smallfish
7	1998.02.15	11-45.010N,085-42.648E Basket Quantity : 150	Indo-Pacific sailfish	123.0	9.0	m	5	Squid,Mackerel
			Indo-Pacific blue marlin	190.0	62.0	f	225	Mackerel
			Indo-Pacific sailfish	210.0	36.0	f	165	Nil
			Indo-Pacific sailfish	170.0	20.0	f	5	Squid,Mackerel
8	1998.02.16	10-27.630N,087-07.830E Basket Quantity : 100	Yellowfin	115.0	28.0	m	505	Squid,Smallfish
			Striped marlin	130.0	34.0			
			Bigeye tuna	145.0	59.0	m	450	Squid,Mackerel
			Yellowfin	115.0	30.0	m	500	Squid,Mackerel
			Yellowfin	120.0	33.0	m	210	
			Swordfish	118.0	28.0	f	280	
			Yellowfin	135.0	51.0	m	445	
			Swordfish	100.0	16.0	f		Squid,Mackerel
			Yellowfin	120.0	33.5	m	110	Squid,Smallfish
			Indo-Pacific sailfish	170.0	22.0	f	105	Squid,Mackerel
			Bigeye tuna	140.0	60.0	m	110	smallfish
			Swordfish	140.0	46.0	m	60	Squid,Mackerel