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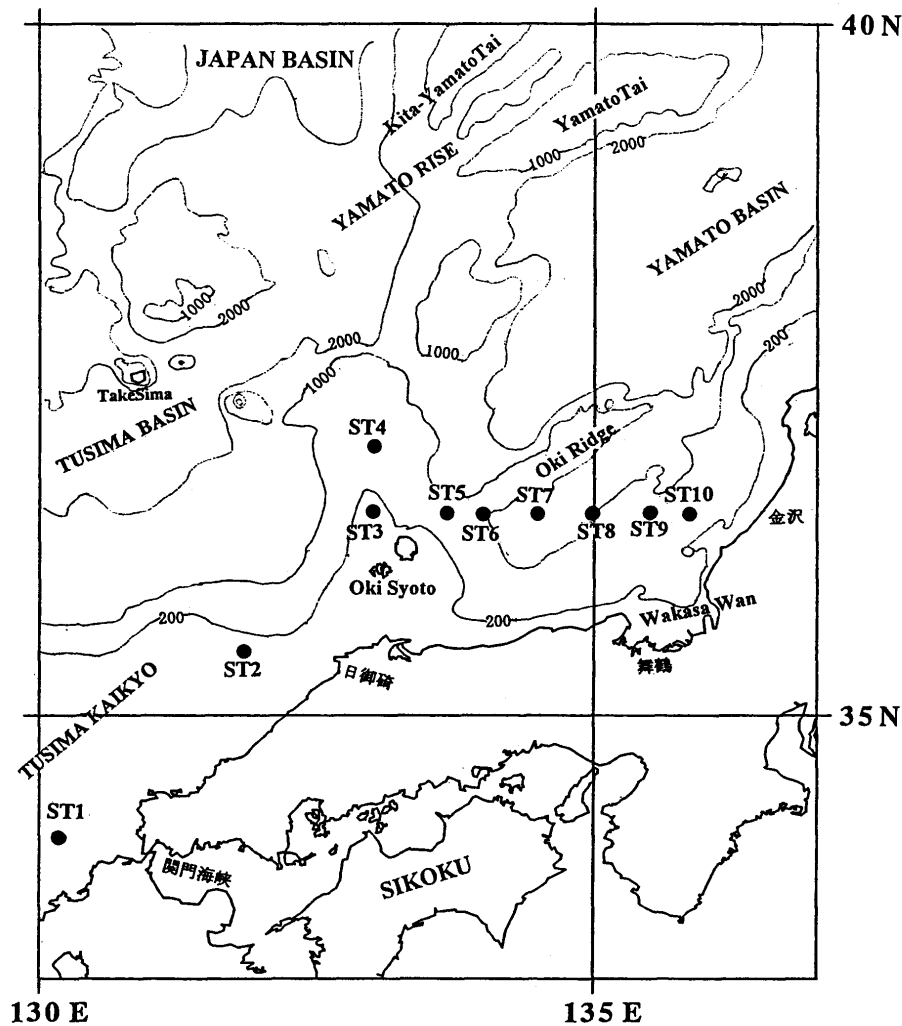
University of Marine Science and Technology

(東京海洋大学)

第二部 神鷹丸航海調査報告 第38次航海報告 期間
平成9年7月～平成9年8月 海域 日本近海及び日本海

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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	W.Temp	Depth	Wind Dir.	Wind S'd	Remarks
St.1	7/24 12:45	7/24 03:45	35-04.55N	130-10.14E	27.3°C	25.8°C	84m	NE	9.0m/s	CTD MER RMS
St.2	7/24 22:30	7/24 13:30	35-29.10N	131-49.25E	26.6	26.0	157	ENE	7.0	CTD RMS
St.3	7/25 07:45	7/24 22:45	36-59.85N	133-00.00	24.9	25.8	298	E	3.9	CTD MER RMS
St.4	7/25 10:52	7/25 01:52	36-30.96N	132-59.41E	26.0	25.7	176	NE	7.0	CTD MER RMS
St.5	7/28 08:23	7/27 23:23	36-30.19N	133-39.99E	23.2	24.2	641	NNE	7.0	CTD
St.6	7/28 10:03	7/28 01:03	36-29.80N	133-59.73E	23.6	23.8	916	NE	4.5	CTD
St.7	7/28 12:24	7/28 03:24	36-29.84N	134-29.38E	24.3	24.0	1335	N	2.2	CTD MER RMS
St.8	7/28 15:00	7/28 05:00	36-30.01N	134-59.04E	24.2	24.6	1060	E	1.2	CTD
St.9	7/28 17:40	7/28 08:40	36-30.35N	135-30.15E	24.9	24.1	899	NE	6.0	CTD
St.10	7/28 19:55	7/28 10:55	36-29.71N	135-50.85E	25.1	24.5	301	NE	4.5	CTD

2.1.3. CTD 観測データ CTD Observation Data

STATION - 1 SY9707 24 DEPTH - 000084 M
 DATE - 1997/07/24 POSITION LAT. - 34° 04. 55 N
 TIME - 12:42 LONG. - 130° 10. 14 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	25.680	33.009	21.632	3.83	83.97	0.08
1.0	25.680	33.016	21.638	3.75	77.13	0.09
2.0	25.679	33.020	21.641	3.79	85.81	0.09
3.0	25.686	33.022	21.640	3.77	86.43	0.08
4.0	25.687	33.018	21.637	3.73	86.78	0.09
5.0	25.682	33.018	21.639	3.77	87.02	0.08
10.0	25.558	33.017	21.676	3.82	87.49	0.09
15.0	25.193	33.086	21.839	3.87	87.31	0.10
20.0	24.072	33.402	22.413	4.03	84.99	0.22
25.0	23.078	33.614	22.862	4.14	84.35	0.41
30.0	22.205	33.844	23.284	4.14	84.91	0.57
40.0	21.846	33.981	23.488	3.99	86.78	0.43
50.0	21.548	34.062	23.632	4.00	87.46	0.35
71.1	19.251	34.353	24.464	3.91	87.49	0.17

STATION - 3 SY9707 25 DEPTH - 000300 M
 DATE - 1997/07/25 POSITION LAT. - 36° 59. 84 N
 TIME - 07:49 LONG. - 132° 59. 34 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	24.721	33.525	22.315	3.80	85.08	0.09
1.0	24.721	33.525	22.312	3.80	85.08	0.09
2.0	24.721	33.524	22.312	3.80	85.08	0.09
3.0	24.721	33.524	22.312	3.80	85.08	0.09
4.0	24.721	33.524	22.312	3.80	85.08	0.09
5.0	24.707	33.520	22.313	3.86	84.52	0.09
10.0	22.779	33.694	23.008	4.17	88.16	0.10
15.0	19.504	33.825	23.996	4.67	87.75	0.12
20.0	17.916	34.041	24.560	4.90	87.08	0.14
25.0	17.898	34.317	24.775	4.87	87.31	0.15
30.0	17.310	34.263	24.875	4.91	87.63	0.17
40.0	16.283	34.289	25.137	4.56	87.46	0.45
50.0	16.083	34.358	25.236	4.30	88.63	0.30
75.0	15.167	34.469	25.527	4.14	87.55	0.10
100.0	11.539	34.349	26.171	4.75	82.12	0.08
125.0	9.555	34.274	26.460	5.28	73.05	0.08
150.0	8.377	34.212	26.599	5.53	63.05	0.07
200.0	3.273	34.000	27.062	6.20	49.70	0.08
201.0	3.217	34.005	27.071	6.51	49.05	0.08

STATION - 2 SY9707 24 DEPTH - 000157 M
 DATE - 1997/07/24 POSITION LAT. - 35° 29. 08 N
 TIME - 22:32 LONG. - 131° 49. 21 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	25.937	33.037	21.575	3.29	52.31	0.10
1.0	25.936	33.032	21.571	3.35	63.52	0.10
2.0	25.937	33.033	21.572	3.58	86.55	0.09
3.0	25.936	33.034	21.573	3.55	86.55	0.08
4.0	25.942	33.033	21.570	3.60	86.58	0.09
5.0	25.945	33.033	21.569	3.58	86.64	0.09
10.0	25.562	32.939	21.616	3.70	87.22	0.08
15.0	24.787	33.029	21.918	3.81	87.60	0.08
20.0	24.022	33.122	22.215	3.90	87.69	0.08
25.0	23.717	33.225	22.383	3.94	87.66	0.08
30.0	23.270	33.523	22.738	3.98	87.52	0.10
40.0	22.089	33.957	23.402	4.11	87.49	0.11
50.0	20.710	34.156	23.931	4.05	86.84	0.46
75.0	19.224	34.333	24.456	3.99	88.04	0.16
100.0	18.309	34.440	24.768	4.20	88.81	0.11
125.0	17.044	34.485	25.110	4.14	88.84	0.10
140.0	15.854	34.480	25.382	3.87	85.81	0.10

STATION - 4 SY9707 25 DEPTH - 000292 M
 DATE - 1997/07/25 POSITION LAT. - 36° 30. 88 N
 TIME - 10:47 LONG. - 132° 59. 33 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	25.590	33.420	21.970	3.35	86.69	0.08
1.0	25.587	33.420	21.971	3.38	87.46	0.09
2.0	25.529	33.416	21.986	3.77	87.81	0.09
3.0	25.480	33.420	22.004	3.91	87.87	0.08
4.0	25.528	33.424	21.993	3.82	87.87	0.08
5.0	25.351	33.377	22.011	3.91	87.87	0.08
10.0	23.459	33.176	22.420	4.20	88.10	0.08
15.0	22.417	33.199	22.735	4.38	88.07	0.11
20.0	21.671	33.442	23.127	4.47	88.01	0.11
25.0	20.764	33.870	23.699	4.59	88.25	0.11
30.0	19.884	34.141	24.138	4.70	88.43	0.11
40.0	18.312	34.348	24.697	4.64	88.63	0.15
50.0	17.436	34.378	24.934	4.78	88.13	0.23
75.0	16.661	34.492	25.205	4.12	84.41	0.15
100.0	15.196	34.473	25.524	4.14	76.25	0.09
125.0	12.405	34.410	26.054	4.57	70.59	0.08
150.0	8.914	34.256	26.549	5.04	63.99	0.07
150.9	8.906	34.254	26.549	5.18	63.43	0.07

STATION - 5 SY9707 28 DEPTH - 000292 M
 DATE - 1997/07/28 POSITION LAT. - 36° 30.10 N
 TIME - 08:21 LONG. - 133° 40.04 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	24.113	33.510	22.483	3.22	82.88	0.10
1.0	24.117	33.509	22.481	3.24	85.46	0.11
2.0	24.139	33.498	22.465	3.55	85.64	0.11
3.0	24.142	33.497	22.464	3.58	86.11	0.10
4.0	24.142	33.497	22.464	3.65	86.05	0.10
5.0	24.144	33.500	22.466	3.65	86.20	0.10
10.0	23.965	33.499	22.518	3.69	86.05	0.11
15.0	23.164	33.754	22.943	3.84	86.31	0.12
20.0	20.165	34.225	24.128	4.22	86.20	0.16
25.0	19.622	34.302	24.329	4.32	85.87	0.22
30.0	18.730	34.370	24.609	4.46	85.61	0.28
40.0	17.897	34.427	24.860	4.33	86.31	0.22
50.0	17.289	34.425	25.005	4.34	86.58	0.19
75.0	16.032	34.450	25.318	4.17	86.84	0.14
100.0	15.134	34.433	25.506	4.08	86.93	0.10
125.0	13.612	34.444	25.839	4.21	86.78	0.08
150.0	10.351	34.275	26.326	4.50	86.37	0.12
200.0	2.926	34.031	27.118	5.11	69.68	0.09
206.8	2.535	34.034	27.154	5.24	66.80	0.07

STATION - 7 SY9707 28 DEPTH - 001327 M
 DATE - 1997/07/28 POSITION LAT. - 36° 29.76 N
 TIME - 12:24 LONG. - 134° 29.36 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	23.546	33.720	22.807	2.88	69.47	0.18
1.0	23.539	33.722	22.810	2.95	76.16	0.17
2.0	23.565	33.725	22.806	3.64	86.58	0.09
3.0	23.608	33.726	22.794	3.88	86.75	0.08
4.0	23.510	33.724	22.821	3.94	86.99	0.08
5.0	23.495	33.723	22.825	3.91	86.93	0.08
10.0	23.453	33.727	22.839	3.93	86.93	0.08
15.0	23.417	33.732	22.854	3.95	86.84	0.09
20.0	23.296	33.742	22.896	3.98	86.81	0.10
25.0	20.924	34.028	23.776	4.32	86.37	0.13
30.0	19.134	34.168	24.353	4.72	86.37	0.16
40.0	16.768	34.430	25.133	5.02	86.25	0.23
50.0	16.327	34.444	25.246	4.96	86.55	0.29
75.0	14.452	34.477	25.688	4.40	87.19	0.30
100.0	12.149	34.412	26.105	4.84	80.50	0.06
125.0	9.883	34.273	26.404	5.05	71.97	0.07
150.0	7.521	34.160	26.684	5.42	66.92	0.07
200.0	3.512	34.055	27.083	5.32	57.44	0.07
250.0	2.011	34.032	27.195	5.11	49.64	0.07
300.0	1.172	34.028	27.252	4.71	44.62	0.07
400.0	0.703	34.030	27.284	4.36	39.69	0.07
499.1	0.504	34.032	27.297	4.22	37.08	0.06

STATION - 6 SY9707 28 DEPTH - 000915 M
 DATE - 1997/07/28 POSITION LAT. - 36° 29.73 N
 TIME - 10:03 LONG. - 133° 59.40 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	23.662	33.634	22.708	3.36	66.60	0.17
1.0	23.662	33.634	22.708	3.36	69.91	0.17
2.0	23.656	33.636	22.711	3.66	86.93	0.11
3.0	23.655	33.638	22.714	3.79	86.99	0.10
4.0	23.654	33.640	22.715	3.77	87.02	0.10
5.0	23.654	33.642	22.716	3.80	87.02	0.10
10.0	23.664	33.652	22.721	3.83	87.08	0.11
15.0	23.643	33.645	22.722	3.86	87.16	0.11
20.0	23.621	33.650	22.733	3.87	87.19	0.12
25.0	21.480	33.798	23.450	4.13	86.81	0.16
30.0	19.863	34.057	24.079	4.33	86.81	0.19
40.0	18.250	34.389	24.743	4.43	86.87	0.25
50.0	17.293	34.388	24.976	4.53	87.13	0.22
75.0	15.829	34.465	25.376	4.12	87.55	0.17
100.0	14.987	34.414	25.524	3.89	87.60	0.16
125.0	12.975	34.439	25.964	4.25	88.10	0.10
150.0	10.162	34.312	26.387	4.73	85.46	0.07
200.0	4.957	34.081	26.952	5.48	77.63	0.07
200.8	4.939	34.083	26.955	5.43	76.25	0.07

STATION - 8 SY9707 28 DEPTH - 000292 M
 DATE - 1997/07/28 POSITION LAT. - 36° 30.04 N
 TIME - 15:03 LONG. - 134° 59.11 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	23.978	33.683	22.653	2.60	62.93	0.10
1.0	23.978	33.685	22.654	2.61	65.04	0.10
2.0	23.975	33.686	22.656	3.58	86.40	0.11
3.0	24.035	33.687	22.639	3.74	86.72	0.10
4.0	24.027	33.682	22.637	3.77	86.75	0.10
5.0	24.028	33.684	22.639	3.72	86.75	0.10
10.0	23.912	33.685	22.673	3.77	86.58	0.11
15.0	23.898	33.685	22.678	3.81	86.61	0.11
20.0	22.028	33.904	23.379	4.08	86.46	0.14
25.0	20.940	34.052	23.790	4.30	86.34	0.16
30.0	18.887	34.090	24.356	4.63	85.49	0.24
40.0	14.665	34.241	25.460	5.40	85.11	0.33
50.0	13.050	34.287	25.831	5.54	84.05	0.77
75.0	9.971	34.258	26.378	5.01	86.90	0.18
100.0	6.178	34.115	26.831	5.37	81.94	0.07
125.0	4.996	34.091	26.955	5.34	70.35	0.07
150.0	3.155	34.044	27.108	5.31	61.35	0.07
200.0	1.601	34.031	27.225	4.68	49.41	0.07
249.6	0.928	34.029	27.269	4.67	42.60	0.07
249.6	0.928	34.029	27.269	4.67	42.60	0.07

STATION - 9 SY9707 29 DEPTH - 000292 M
 DATE - 1997/07/28 POSITION LAT. - 36° 30.34 N
 TIME - 17:32 LONG. - 135° 29.99 E

DATA TYPE = PROCESS

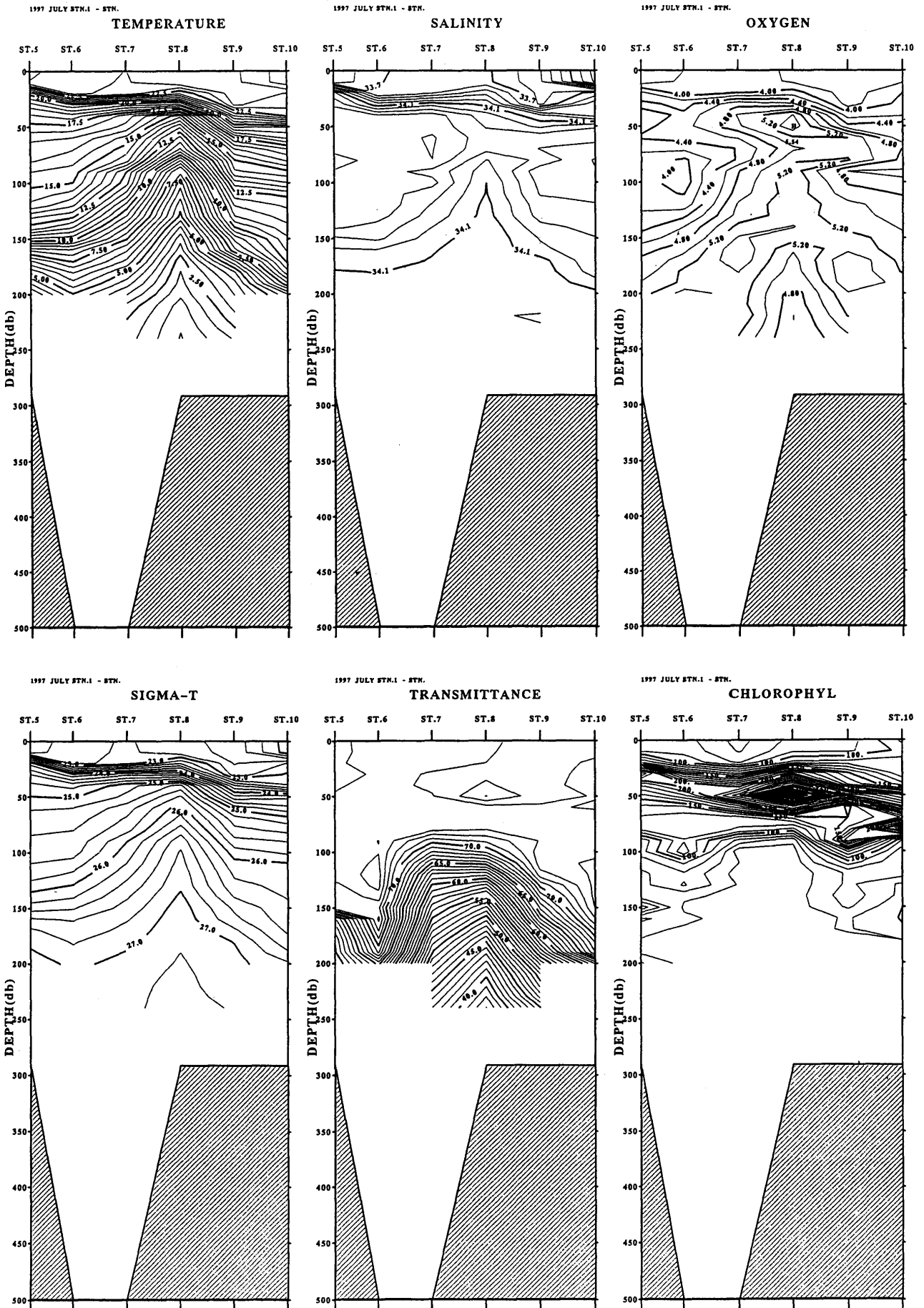
Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	24.018	33.472	22.482	2.96	85.64	0.10
1.0	23.988	33.476	22.493	3.08	86.02	0.10
2.0	23.932	33.486	22.517	3.58	86.02	0.11
3.0	23.914	33.490	22.526	3.58	86.02	0.11
4.0	23.903	33.492	22.531	3.66	86.05	0.10
5.0	23.890	33.493	22.535	3.67	86.02	0.10
10.0	23.861	33.500	22.549	3.70	85.96	0.11
15.0	23.827	33.520	22.574	3.70	85.93	0.13
20.0	23.812	33.531	22.586	3.69	85.87	0.14
25.0	23.794	33.533	22.593	3.66	85.90	0.16
30.0	23.567	33.549	22.671	3.71	85.90	0.18
40.0	21.479	34.032	23.628	4.10	86.20	0.21
50.0	19.549	34.181	24.256	4.47	85.96	0.31
75.0	15.465	34.336	25.358	5.20	86.49	0.18
100.0	13.197	34.412	25.899	4.77	87.11	0.16
125.0	11.317	34.345	26.208	5.04	84.79	0.09
150.0	8.615	34.211	26.561	5.31	78.51	0.09
200.0	3.521	34.039	27.070	5.38	63.22	0.07
250.0	1.854	34.034	27.209	4.77	51.46	0.07
300.0	1.053	34.028	27.260	4.61	46.82	0.07
400.0	0.622	34.030	27.289	4.39	40.87	0.07
500.0	0.465	34.031	27.299	4.28	38.81	0.06
502.0	0.464	34.031	27.299	4.28	38.73	0.06

STATION - 10 SY9707 30 DEPTH - 000292 M
 DATE - 1997/07/28 POSITION LAT. - 36° 29.75 N
 TIME - 19:54 LONG. - 135° 58.85 E

DATA TYPE = PROCESS

Press. (db)	Temp. (°C)	Sal. (PSU)	sigmaT	Oxy (ml/L)	TRANS (%)	CHLOR. (ug/L)
0.0	24.826	32.982	21.871	2.88	79.51	0.17
1.0	24.827	32.981	21.870	2.90	83.53	0.18
2.0	24.835	32.976	21.864	3.61	85.96	0.13
3.0	24.834	32.973	21.862	3.74	85.99	0.12
4.0	24.813	32.973	21.868	3.74	86.02	0.12
5.0	24.788	32.978	21.880	3.75	86.23	0.19
10.0	24.796	33.015	21.905	3.78	86.17	0.13
15.0	24.705	33.110	22.004	3.84	86.11	0.12
20.0	23.477	33.695	22.808	4.00	86.67	0.14
25.0	23.320	33.766	22.908	4.06	86.84	0.13
30.0	23.202	33.897	23.041	4.08	86.93	0.14
40.0	22.541	33.886	23.221	4.18	86.78	0.16
50.0	19.483	34.281	24.349	4.52	86.55	0.25
75.0	16.519	34.461	25.214	4.81	87.11	0.17
100.0	13.956	34.441	25.765	4.62	87.28	0.09
125.0	11.779	34.343	26.122	4.93	87.96	0.07
150.0	10.899	34.289	26.240	5.03	87.78	0.06
200.0	5.951	34.086	26.837	5.38	73.64	0.07
200.9	5.857	34.116	26.872	5.43	71.94	0.07

2.1.4. CTD 鉛直断面图 CTD Vertical Section



2.1.5. ADCP 及び風向風速図 ADCP and Wind Chart

