

**Limnological parameters in Skarvsnes lakes during the 48th and 49th Japanese
Antarctic Research Expeditions in 2007-2008
-Long-term monitoring study-**

Sakae KUDOH^{1,2}, Yukiko TANABE¹ and Hiroshi KANDA^{1,2}

¹National Institute of Polar Research, Research Organization of Information and Systems, Midori-cho
10-3, Tachikawa-City, Tokyo 190-8518

²Department of Polar Science, The Graduate University for Advanced Studies, Midori-cho 10-3,
Tachikawa-City, Tokyo 190-8518

1. Introduction

This is a report on limnological parameters which were continuously recorded by means of moored data-logger arrays in three Skarvsnes lakes, Oyako Ike, Naga Ike and Namazu Ike (Fig. 1) during the 48th and 49th Japanese Antarctic Research Expeditions (JARE) in 2007-2008. This study was one of our “Long-term monitoring studies on Antarctic terrestrial ecosystem” which were started in 2006, under the umbrella of the VII term of the Japanese Antarctic Expedition Plans. Water temperature, photosynthetically active radiation (PAR), chlorophyll fluorescence and turbidity in lakes were measured and recorded automatically at intervals of 10-60 min. Similar continuous data of limnological parameters in Oyako Ike and Naga Ike during the previous year have been reported by Kudoh *et al.* (2009). This is second report summarizes year-round data of parameters in Oyako Ike and Naga Ike, and additionally collected data in Namazu Ike.

2. Materials and Methods

Design of the mooring array: The mooring array consisted of three temperature loggers (NWT, Nichiyu), two PAR loggers (MDS-type L, Arec) and a chlorophyll-turbidity logger (ACLW-CMP, Arec) for Oyako Ike and Naga Ike. Two more temperature loggers were used in Namazu Ike. These were attached at given depths on a rope as shown in Fig. 2. The array was moored at the lake center where the near-maximum depth was detected. Exact depths at the mooring sites were 7.5 m, 10.1 m and 13.5 m in Oyako Ike, Naga Ike and Namazu Ike, respectively. The positions measured by portable GPS (GPS map 60cs, Garmin) were 69°28.517'S, 39°36.140'E, 69°29.236'S, 39°35.873'E and 69°29.928'S, 39°41.880'E in Oyako Ike, Naga Ike and Namazu Ike, respectively.

Settings of the data loggers: Temperature data were sampled every 30 minutes from 0:00 (local time) on 14 January 2007 to 12:00 on 19 January 2008 in Oyako Ike, from 0:00 on 15 January to 12:00 on 16 January in Naga Ike, and from 0:00 on 18 January to 23:30 on 8 February in Namazu Ike. PAR data were recorded at 10 minute intervals and the chlorophyll-turbidity data were recorded at 60

minute intervals at the same time in the three lakes. All loggers were pre- and post calibrated by the manufacturers, who found no significant electric drifts in the measurements over the course of the study except for one PAR logger in Naga Ike at 1.7 m; it stopped recording at the starting time due to microcomputer trouble.

Units of recorded data were °C and $\mu\text{mol}/\text{m}^2/\text{s}$ for temperature and PAR, respectively. Fluorescence from chlorophyll *a* was recorded as relative intensity against fluorescein sodium (Uranine) concentration, and turbidity was recorded as Formazin Nephelometric Units (FTU).

3. Data

Temperature data collected at three depths in Oyako Ike are illustrated in Fig. 3 and the monthly summarized data are listed in Tables 1-1 to 1-13. PAR data at two depths in Oyako Ike are illustrated in Figs. 4 and 5, and the monthly summarized data are listed in Tables 2-1 to 2-13. Chlorophyll fluorescence and turbidity data in Oyako Ike are illustrated in Fig. 6 and the monthly summarized data are listed in Tables 3-1 to 3-13. In early November 2007 and early January 2008, the chlorophyll fluorescence and turbidity data showed sporadic increase of over 100 measuring units. Similar phenomena were observed and reported in the previous report (Kudoh *et al.*, 2009).

Temperature data at three different depths of Naga Ike are illustrated in Fig. 7, and listed in Tables 4-1 to 4-13. PAR data at 8.6 m depth are illustrated in Fig. 8 and the summarized data are listed in Tables 5-1 to 5-13. Chlorophyll fluorescence and turbidity data in Naga Ike are illustrated in Fig. 9 and the monthly summarized data are listed in Tables 6-1 to 6-13.

Temperature data at five different depths of Namazu Ike are illustrated in Fig. 10 and listed in Tables 7-1 to 7-14. The temperature logger set at the shallowest depth (1.4 m) of the lake might have been trapped in the ice which gained thickness during early spring, and recorded sub zero temperature for a while. PAR data at two depths in the lake are illustrated in Figs. 11 and 12, and the monthly summarized data are listed in Tables 8-1 to 8-14. PAR at shallow depth (1.7 m) in Namazu Ike was recorded sometimes over 2000 $\mu\text{mol}/\text{m}^2/\text{s}$ during the ice-free season; such high values are not expected even at the lake surface. The most probable reason why such extremely high values were recorded is that PAR was focused at the shallow depth by wind waves, which might behave as a lens. Chlorophyll fluorescence and turbidity data in Namazu Ike are illustrated in Fig. 13, and the monthly summarized data are listed in Tables 9-1 to 9-14.

4. Scientists who carried out the field study

Mooring arrays were installed by Sakae Kudoh, Nobue Kasamatsu (48th JARE members) and were retrieved by Sakae Kudoh and Yukiko Tanabe (49th JARE members).

5. Data policy

Before using the data for publication or presentation in any media, please request permission in writing. Inquiries should be addressed to:

Sakae KUDOH, Associate Professor
National Institute of Polar Research
Research Organization of Information and Systems
Midori-cho 10-3, Tachikawa-City, Tokyo 190-8518, Japan
E-mail: skudoh@nipr.ac.jp

Acknowledgments

We thank all the members of JARE-48 and JARE-49 for their support and help. We also wish to thank the officers and crew of the icebreaker *Shirase*.

Reference

Kudoh, S., Kasamatsu, N, Hoshino, T., Han, D-H, Tanabe, Y. and Kanda, H. (2009) Limnological parameters in Skarvsnes lakes between the 47th and 48th Japanese Antarctic Research Expedition in 2006-2007 -Long-term monitoring study-. JARE Data Rep., **309** (Terrestrial biology 4). 47 p.

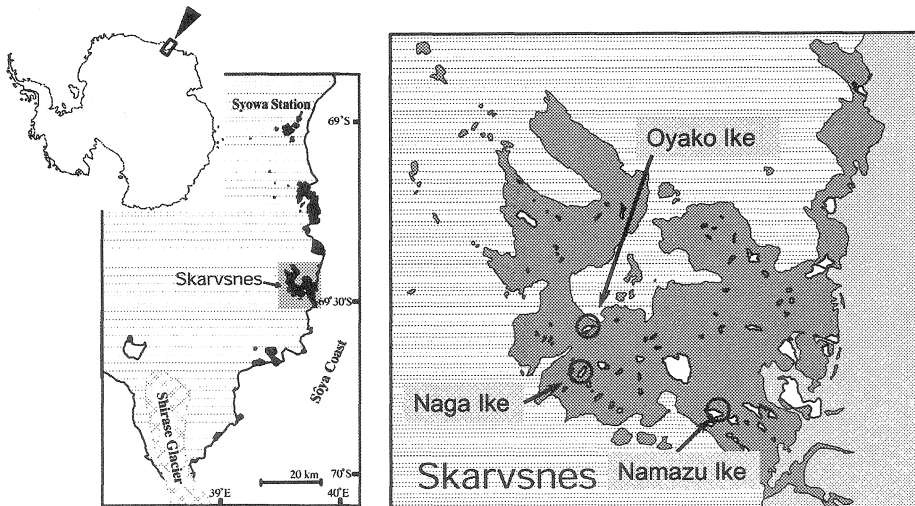


Fig. 1. Maps of studied lakes.

Mooring System: JARE-48 – 49

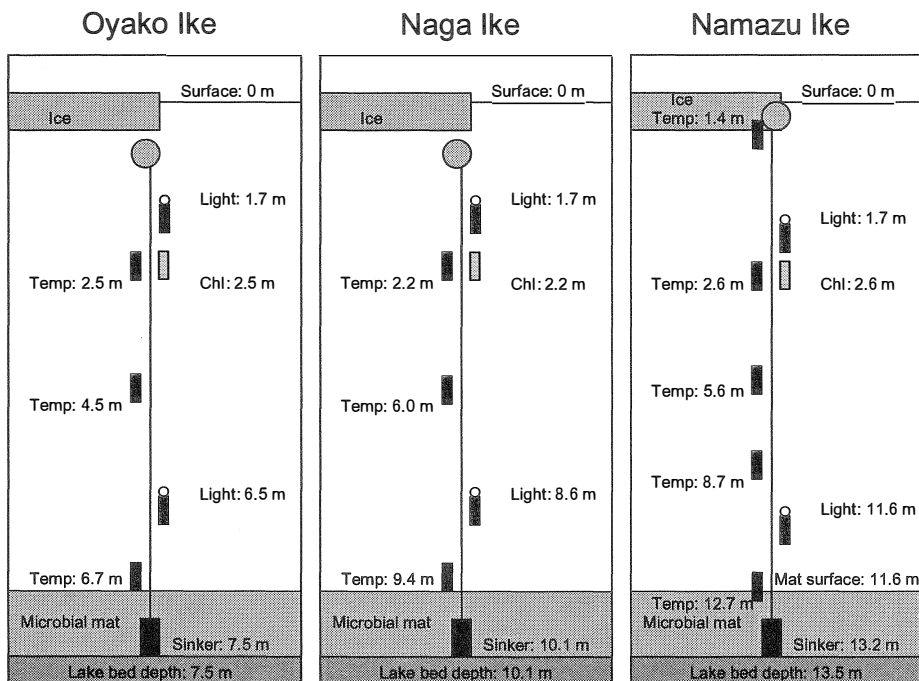


Fig. 2. Design of mooring arrays set in Oyako Ike, Naga Ike and Namazu Ike.

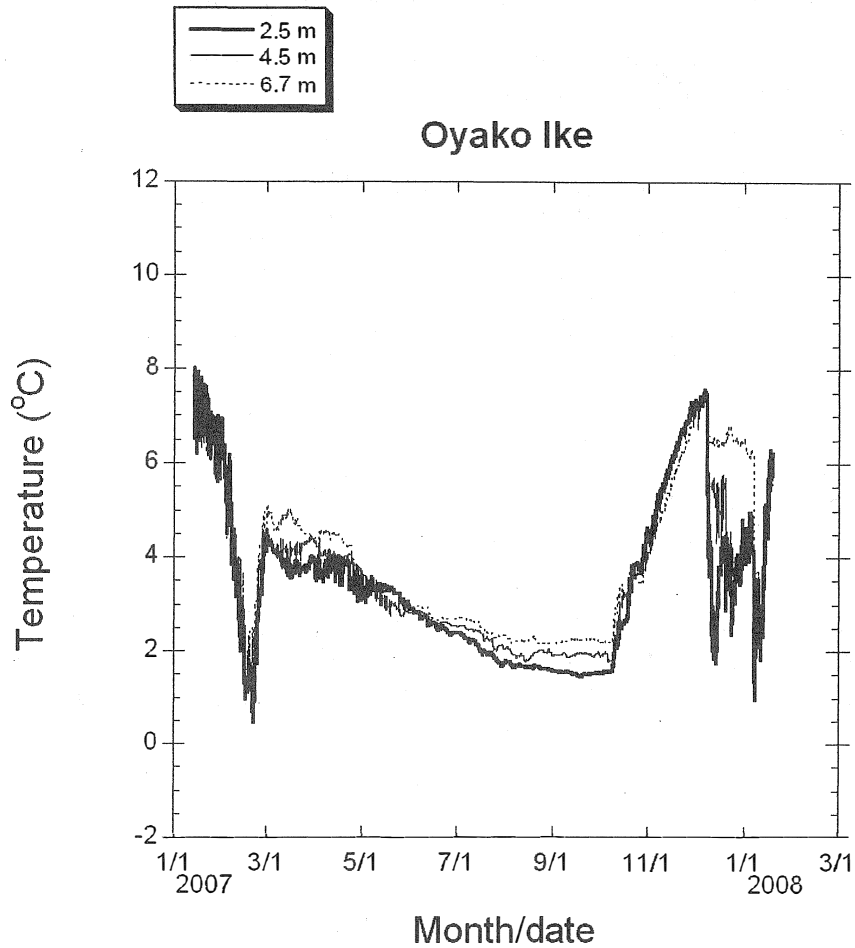


Fig. 3. Seasonal changes of water temperature at three depths in Oyako Ike (2007-2008). 30-minute interval data.

Table 1-1 Water temperature data (°C) at 3 depths in Oyako Ike, January 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/14	7.148	6.518	7.992	7.148	6.518	7.992	7.142	6.580	8.054
2007/1/15	6.826	6.190	7.723	6.826	6.190	7.723	6.780	6.211	7.759
2007/1/16	7.142	6.531	7.915	7.142	6.531	7.915	6.933	6.452	7.297
2007/1/17	7.035	6.478	7.808	7.035	6.478	7.808	6.970	6.472	7.630
2007/1/18	6.997	6.572	7.813	6.997	6.572	7.813	6.761	6.278	7.060
2007/1/19	7.219	6.989	7.653	7.219	6.989	7.653	6.994	6.781	7.265
2007/1/20	7.218	6.855	7.659	7.218	6.855	7.659	6.949	6.391	7.243
2007/1/21	7.100	6.586	7.610	7.100	6.586	7.610	6.863	6.231	7.177
2007/1/22	6.873	6.483	7.440	6.873	6.483	7.440	6.751	6.320	7.173
2007/1/23	6.645	6.182	7.341	6.645	6.182	7.341	6.585	6.166	6.989
2007/1/24	6.590	6.107	7.061	6.590	6.107	7.061	6.520	6.065	6.751
2007/1/25	6.785	6.540	6.982	6.785	6.540	6.982	6.672	6.222	6.966
2007/1/26	6.666	6.488	6.965	6.666	6.488	6.965	6.696	6.471	6.937
2007/1/27	6.333	5.786	6.929	6.333	5.786	6.929	6.263	5.625	6.821
2007/1/28	6.359	5.765	6.786	6.359	5.765	6.786	6.306	5.575	6.686
2007/1/29	6.169	5.615	6.977	6.169	5.615	6.977	6.160	5.677	6.962
2007/1/30	6.243	5.830	6.760	6.243	5.830	6.760	6.150	5.627	6.523
2007/1/31	6.474	6.084	6.930	6.474	6.084	6.930	6.312	5.573	6.644
<i>Monthly</i>	6.768	5.615	7.992	6.768	5.615	7.992	6.656	5.573	8.054

Table 1-2 Water temperature data (°C) at 3 depths in Oyako Ike, February 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	6.487	6.283	6.915	6.487	6.283	6.915	6.384	6.114	6.580
2007/2/2	5.951	5.689	6.362	5.951	5.689	6.362	5.950	5.485	6.373
2007/2/3	5.364	5.169	5.724	5.364	5.169	5.724	5.430	5.172	5.763
2007/2/4	5.136	4.504	5.935	5.136	4.504	5.935	5.199	4.405	5.642
2007/2/5	5.485	4.837	6.165	5.485	4.837	6.165	5.406	4.705	5.832
2007/2/6	5.113	4.677	6.019	5.113	4.677	6.019	5.144	4.750	5.755
2007/2/7	4.235	3.843	5.119	4.235	3.843	5.119	4.372	3.915	5.185
2007/2/8	3.840	3.521	4.596	3.840	3.521	4.596	4.166	3.752	4.494
2007/2/9	4.047	3.850	4.452	4.047	3.850	4.452	4.261	3.983	4.553
2007/2/10	3.551	3.172	3.962	3.551	3.172	3.962	3.974	3.328	4.285
2007/2/11	3.094	2.691	3.464	3.094	2.691	3.464	3.770	3.259	4.047
2007/2/12	2.743	2.319	3.184	2.743	2.319	3.184	3.367	2.455	3.982
2007/2/13	2.522	2.004	3.117	2.522	2.004	3.117	3.343	2.952	3.960
2007/2/14	2.552	2.378	2.876	2.552	2.378	2.876	3.238	2.548	3.699
2007/2/15	1.670	1.313	2.531	1.670	1.313	2.531	1.775	1.367	2.583
2007/2/16	1.163	0.957	1.352	1.163	0.957	1.352	1.305	1.033	1.636
2007/2/17	1.286	1.101	1.442	1.286	1.101	1.442	1.724	1.445	2.006
2007/2/18	1.517	1.346	1.707	1.517	1.346	1.707	2.034	1.546	2.325
2007/2/19	1.401	1.171	1.725	1.401	1.171	1.725	2.108	1.713	2.415
2007/2/20	1.012	0.703	1.363	1.012	0.703	1.363	2.119	1.625	2.497
2007/2/21	0.702	0.467	0.930	0.702	0.467	0.930	2.346	1.722	2.488
2007/2/22	1.214	0.928	1.807	1.214	0.928	1.807	2.624	2.382	3.072
2007/2/23	2.108	1.738	2.805	2.108	1.738	2.805	3.386	3.070	3.801
2007/2/24	2.932	2.653	3.104	2.932	2.653	3.104	3.882	3.769	4.045
2007/2/25	3.161	2.965	3.330	3.161	2.965	3.330	4.022	3.867	4.264
2007/2/26	3.499	3.216	3.920	3.499	3.216	3.920	4.339	4.124	4.680
2007/2/27	4.016	3.749	4.439	4.016	3.749	4.439	4.593	4.403	4.904
2007/2/28	4.175	4.041	4.325	4.175	4.041	4.325	4.692	4.489	4.959
<i>Monthly</i>	3.213	0.467	6.915	3.213	0.467	6.915	3.748	1.033	6.580

Table 1-3 Water temperature data (°C) at 3 depths in Oyako Ike, March 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	4.297	4.115	4.568	4.297	4.115	4.568	4.885	4.726	5.104
2007/3/2	4.324	4.240	4.443	4.324	4.240	4.443	4.951	4.839	5.077
2007/3/3	4.319	4.294	4.350	4.319	4.294	4.350	4.935	4.870	5.002
2007/3/4	4.282	4.239	4.323	4.282	4.239	4.323	4.870	4.814	4.939
2007/3/5	4.190	4.143	4.243	4.190	4.143	4.243	4.769	4.705	4.847
2007/3/6	4.111	4.089	4.144	4.111	4.089	4.144	4.616	4.577	4.702
2007/3/7	4.089	4.071	4.129	4.089	4.071	4.129	4.597	4.543	4.675
2007/3/8	4.062	4.043	4.075	4.062	4.043	4.075	4.613	4.580	4.646
2007/3/9	4.052	4.027	4.099	4.052	4.027	4.099	4.648	4.572	4.765
2007/3/10	4.042	3.953	4.085	4.042	3.953	4.085	4.748	4.666	4.870
2007/3/11	3.897	3.819	4.035	3.897	3.819	4.035	4.836	4.775	4.897
2007/3/12	3.848	3.802	3.908	3.848	3.802	3.908	4.845	4.782	4.903
2007/3/13	3.832	3.784	3.950	3.832	3.784	3.950	4.853	4.792	4.923
2007/3/14	3.765	3.680	3.899	3.765	3.680	3.899	4.887	4.810	4.987
2007/3/15	3.745	3.609	3.956	3.745	3.609	3.956	4.932	4.856	5.037
2007/3/16	3.592	3.546	3.819	3.592	3.546	3.819	4.947	4.893	5.006
2007/3/17	3.604	3.555	3.805	3.604	3.555	3.805	4.891	4.831	4.962
2007/3/18	3.624	3.581	3.725	3.624	3.581	3.725	4.786	4.714	4.886
2007/3/19	3.774	3.646	3.893	3.774	3.646	3.893	4.717	4.662	4.799
2007/3/20	3.827	3.689	3.934	3.827	3.689	3.934	4.768	4.702	4.841
2007/3/21	3.777	3.703	3.903	3.777	3.703	3.903	4.731	4.664	4.819
2007/3/22	3.777	3.596	3.853	3.777	3.596	3.853	4.623	4.609	4.660
2007/3/23	3.728	3.681	3.765	3.728	3.681	3.765	4.583	4.564	4.608
2007/3/24	3.752	3.726	3.788	3.752	3.726	3.788	4.540	4.522	4.563
2007/3/25	3.761	3.732	3.809	3.761	3.732	3.809	4.499	4.486	4.521
2007/3/26	3.731	3.684	3.818	3.731	3.684	3.818	4.472	4.464	4.485
2007/3/27	3.743	3.712	3.759	3.743	3.712	3.759	4.446	4.432	4.463
2007/3/28	3.819	3.751	3.909	3.819	3.751	3.909	4.442	4.409	4.493
2007/3/29	3.951	3.883	3.992	3.951	3.883	3.992	4.457	4.439	4.483
2007/3/30	3.965	3.926	4.015	3.965	3.926	4.015	4.431	4.418	4.453
2007/3/31	3.946	3.893	3.994	3.946	3.893	3.994	4.416	4.400	4.432
<i>Monthly</i>	3.910	3.546	4.568	3.910	3.546	4.568	4.701	4.400	5.104

Table 1-4 Water temperature data (°C) at 3 depths in Oyako Ike, April 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	3.839	3.548	3.949	3.839	3.548	3.949	4.414	4.394	4.433
2007/4/2	3.680	3.503	3.743	3.680	3.503	3.743	4.413	4.397	4.428
2007/4/3	3.799	3.669	4.014	3.799	3.669	4.014	4.455	4.400	4.548
2007/4/4	3.639	3.553	3.916	3.639	3.553	3.916	4.527	4.479	4.583
2007/4/5	3.633	3.548	3.699	3.633	3.548	3.699	4.529	4.480	4.574
2007/4/6	3.636	3.488	3.740	3.636	3.488	3.740	4.530	4.484	4.585
2007/4/7	3.741	3.616	3.854	3.741	3.616	3.854	4.544	4.506	4.586
2007/4/8	3.797	3.668	3.918	3.797	3.668	3.918	4.534	4.490	4.570
2007/4/9	3.766	3.591	3.989	3.766	3.591	3.989	4.515	4.492	4.548
2007/4/10	3.878	3.727	4.004	3.878	3.727	4.004	4.499	4.452	4.521
2007/4/11	3.846	3.686	3.989	3.846	3.686	3.989	4.431	4.373	4.502
2007/4/12	3.952	3.862	4.020	3.952	3.862	4.020	4.478	4.442	4.523
2007/4/13	3.907	3.741	4.061	3.907	3.741	4.061	4.480	4.465	4.512
2007/4/14	3.744	3.474	3.959	3.744	3.474	3.959	4.460	4.438	4.482
2007/4/15	3.892	3.650	4.013	3.892	3.650	4.013	4.460	4.438	4.482
2007/4/16	3.920	3.834	4.014	3.920	3.834	4.014	4.470	4.448	4.496
2007/4/17	3.688	3.413	3.994	3.688	3.413	3.994	4.456	4.412	4.486
2007/4/18	3.586	3.408	3.672	3.586	3.408	3.672	4.355	4.329	4.407
2007/4/19	3.855	3.672	3.929	3.855	3.672	3.929	4.304	4.277	4.341
2007/4/20	3.920	3.894	3.936	3.920	3.894	3.936	4.251	4.240	4.276
2007/4/21	3.862	3.821	3.910	3.862	3.821	3.910	4.229	4.220	4.239
2007/4/22	3.906	3.832	3.926	3.906	3.832	3.926	4.222	4.216	4.230
2007/4/23	3.712	3.315	3.885	3.712	3.315	3.885	4.226	4.206	4.255
2007/4/24	3.426	3.324	3.529	3.426	3.324	3.529	4.142	4.067	4.245
2007/4/25	3.508	3.419	3.560	3.508	3.419	3.560	3.985	3.944	4.061
2007/4/26	3.403	3.243	3.678	3.403	3.243	3.678	3.860	3.803	3.941
2007/4/27	3.393	3.261	3.530	3.393	3.261	3.530	3.773	3.737	3.820
2007/4/28	3.379	3.065	3.578	3.379	3.065	3.578	3.759	3.741	3.772
2007/4/29	3.371	3.177	3.538	3.371	3.177	3.538	3.726	3.704	3.754
2007/4/30	3.351	3.080	3.581	3.351	3.080	3.581	3.685	3.666	3.718
Monthly	3.701	3.065	4.061	3.701	3.065	4.061	4.290	3.666	4.586

Table 1-5 Water temperature data (°C) at 3 depths in Oyako Ike, May 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	3.341	3.231	3.474	3.341	3.231	3.474	3.646	3.635	3.664
2007/5/2	3.277	3.125	3.364	3.277	3.125	3.364	3.616	3.593	3.638
2007/5/3	3.150	3.042	3.368	3.150	3.042	3.368	3.580	3.569	3.594
2007/5/4	3.370	3.184	3.456	3.370	3.184	3.456	3.570	3.565	3.578
2007/5/5	3.230	3.189	3.261	3.230	3.189	3.261	3.553	3.545	3.563
2007/5/6	3.311	3.203	3.483	3.311	3.203	3.483	3.540	3.531	3.549
2007/5/7	3.546	3.489	3.574	3.546	3.489	3.574	3.543	3.538	3.549
2007/5/8	3.370	3.293	3.532	3.370	3.293	3.532	3.536	3.528	3.544
2007/5/9	3.329	3.321	3.339	3.329	3.321	3.339	3.531	3.522	3.542
2007/5/10	3.342	3.311	3.392	3.342	3.311	3.392	3.429	3.364	3.540
2007/5/11	3.413	3.393	3.425	3.413	3.393	3.425	3.314	3.299	3.363
2007/5/12	3.356	3.287	3.425	3.356	3.287	3.425	3.325	3.301	3.345
2007/5/13	3.302	3.266	3.322	3.302	3.266	3.322	3.353	3.345	3.368
2007/5/14	3.326	3.264	3.405	3.326	3.264	3.405	3.311	3.294	3.345
2007/5/15	3.386	3.356	3.414	3.386	3.356	3.414	3.268	3.256	3.292
2007/5/16	3.373	3.365	3.393	3.373	3.365	3.393	3.201	3.174	3.252
2007/5/17	3.325	3.285	3.378	3.325	3.285	3.378	3.147	3.103	3.172
2007/5/18	3.297	3.289	3.305	3.297	3.289	3.305	3.063	3.056	3.097
2007/5/19	3.333	3.306	3.363	3.333	3.306	3.363	3.060	3.053	3.078
2007/5/20	3.334	3.313	3.355	3.334	3.313	3.355	3.044	3.003	3.082
2007/5/21	3.282	3.246	3.310	3.282	3.246	3.310	3.008	2.999	3.020
2007/5/22	3.239	3.235	3.245	3.239	3.235	3.245	3.034	3.014	3.048
2007/5/23	3.237	3.231	3.246	3.237	3.231	3.246	2.991	2.985	3.012
2007/5/24	3.244	3.238	3.250	3.244	3.238	3.250	2.999	2.982	3.008
2007/5/25	3.125	3.055	3.240	3.125	3.055	3.240	2.971	2.967	2.981
2007/5/26	3.065	3.046	3.103	3.065	3.046	3.103	2.964	2.957	2.968
2007/5/27	3.070	2.996	3.121	3.070	2.996	3.121	2.950	2.946	2.957
2007/5/28	2.952	2.922	2.991	2.952	2.922	2.991	2.946	2.944	2.949
2007/5/29	3.003	2.946	3.054	3.003	2.946	3.054	2.951	2.949	2.954
2007/5/30	3.043	2.989	3.066	3.043	2.989	3.066	2.957	2.954	2.961
2007/5/31	2.928	2.895	2.986	2.928	2.895	2.986	2.965	2.961	2.969
Monthly	3.255	2.895	3.574	3.255	2.895	3.574	3.238	2.944	3.664

Table 1-6 Water temperature data (°C) at 3 depths in Oyako Ike, June 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	2.900	2.895	2.906	2.900	2.895	2.906	2.970	2.968	2.971
2007/6/2	2.905	2.894	2.912	2.905	2.894	2.912	2.971	2.970	2.971
2007/6/3	2.844	2.823	2.889	2.844	2.823	2.889	2.969	2.968	2.970
2007/6/4	2.830	2.826	2.833	2.830	2.826	2.833	2.972	2.970	2.974
2007/6/5	2.840	2.831	2.848	2.840	2.831	2.848	2.969	2.964	2.973
2007/6/6	2.841	2.810	2.851	2.841	2.810	2.851	2.957	2.948	2.964
2007/6/7	2.732	2.691	2.807	2.732	2.691	2.807	2.939	2.932	2.947
2007/6/8	2.699	2.690	2.723	2.699	2.690	2.723	2.929	2.927	2.932
2007/6/9	2.741	2.725	2.747	2.741	2.725	2.747	2.933	2.927	2.942
2007/6/10	2.748	2.744	2.754	2.748	2.744	2.754	2.947	2.942	2.950
2007/6/11	2.743	2.724	2.751	2.743	2.724	2.751	2.937	2.929	2.944
2007/6/12	2.641	2.556	2.725	2.641	2.556	2.725	2.919	2.915	2.929
2007/6/13	2.557	2.535	2.576	2.557	2.535	2.576	2.862	2.795	2.916
2007/6/14	2.587	2.570	2.601	2.587	2.570	2.601	2.754	2.724	2.792
2007/6/15	2.611	2.601	2.620	2.611	2.601	2.620	2.706	2.690	2.724
2007/6/16	2.614	2.605	2.619	2.614	2.605	2.619	2.687	2.685	2.689
2007/6/17	2.575	2.526	2.605	2.575	2.526	2.605	2.677	2.672	2.685
2007/6/18	2.500	2.467	2.524	2.500	2.467	2.524	2.674	2.673	2.677
2007/6/19	2.467	2.458	2.482	2.467	2.458	2.482	2.685	2.677	2.694
2007/6/20	2.498	2.478	2.522	2.498	2.478	2.522	2.701	2.694	2.706
2007/6/21	2.537	2.524	2.546	2.537	2.524	2.546	2.709	2.706	2.711
2007/6/22	2.516	2.495	2.546	2.516	2.495	2.546	2.704	2.701	2.709
2007/6/23	2.494	2.480	2.504	2.494	2.480	2.504	2.700	2.699	2.701
2007/6/24	2.466	2.448	2.479	2.466	2.448	2.479	2.700	2.699	2.700
2007/6/25	2.422	2.396	2.447	2.422	2.396	2.447	2.701	2.700	2.701
2007/6/26	2.363	2.347	2.395	2.363	2.347	2.395	2.703	2.702	2.704
2007/6/27	2.356	2.348	2.371	2.356	2.348	2.371	2.700	2.696	2.704
2007/6/28	2.382	2.371	2.393	2.382	2.371	2.393	2.694	2.694	2.696
2007/6/29	2.400	2.393	2.406	2.400	2.393	2.406	2.696	2.694	2.699
2007/6/30	2.406	2.403	2.407	2.406	2.403	2.407	2.703	2.698	2.708
<i>Monthly</i>	2.607	2.347	2.912	2.607	2.347	2.912	2.806	2.672	2.974

Table 1-7 Water temperature data (°C) at 3 depths in Oyako Ike, July 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	2.398	2.395	2.402	2.398	2.395	2.402	2.712	2.708	2.716
2007/7/2	2.398	2.390	2.402	2.398	2.390	2.402	2.718	2.716	2.720
2007/7/3	2.379	2.366	2.390	2.379	2.366	2.390	2.715	2.714	2.718
2007/7/4	2.349	2.337	2.367	2.349	2.337	2.367	2.718	2.716	2.720
2007/7/5	2.322	2.305	2.338	2.322	2.305	2.338	2.719	2.711	2.721
2007/7/6	2.288	2.271	2.308	2.288	2.271	2.308	2.700	2.697	2.710
2007/7/7	2.268	2.265	2.271	2.268	2.265	2.271	2.679	2.660	2.696
2007/7/8	2.240	2.198	2.270	2.240	2.198	2.270	2.653	2.649	2.660
2007/7/9	2.185	2.169	2.210	2.185	2.169	2.210	2.652	2.649	2.657
2007/7/10	2.237	2.211	2.251	2.237	2.211	2.251	2.658	2.645	2.662
2007/7/11	2.248	2.234	2.253	2.248	2.234	2.253	2.633	2.629	2.644
2007/7/12	2.220	2.212	2.235	2.220	2.212	2.235	2.635	2.631	2.636
2007/7/13	2.184	2.153	2.211	2.184	2.153	2.211	2.634	2.632	2.636
2007/7/14	2.132	2.119	2.151	2.132	2.119	2.151	2.629	2.627	2.632
2007/7/15	2.081	2.039	2.117	2.081	2.039	2.117	2.627	2.598	2.637
2007/7/16	2.028	2.000	2.044	2.028	2.000	2.044	2.559	2.532	2.595
2007/7/17	1.974	1.926	2.006	1.974	1.926	2.006	2.509	2.500	2.532
2007/7/18	2.016	2.005	2.030	2.016	2.005	2.030	2.482	2.470	2.500
2007/7/19	1.996	1.971	2.005	1.996	1.971	2.005	2.459	2.419	2.474
2007/7/20	1.952	1.931	1.971	1.952	1.931	1.971	2.408	2.403	2.417
2007/7/21	1.943	1.927	1.959	1.943	1.927	1.959	2.399	2.398	2.402
2007/7/22	1.964	1.951	1.974	1.964	1.951	1.974	2.398	2.379	2.405
2007/7/23	1.953	1.942	1.971	1.953	1.942	1.971	2.378	2.372	2.387
2007/7/24	1.926	1.906	1.940	1.926	1.906	1.940	2.389	2.354	2.395
2007/7/25	1.870	1.854	1.904	1.870	1.854	1.904	2.298	2.287	2.347
2007/7/26	1.832	1.801	1.858	1.832	1.801	1.858	2.297	2.287	2.306
2007/7/27	1.786	1.781	1.799	1.786	1.781	1.799	2.310	2.305	2.321
2007/7/28	1.778	1.750	1.789	1.778	1.750	1.789	2.332	2.321	2.341
2007/7/29	1.727	1.686	1.749	1.727	1.686	1.749	2.321	2.315	2.331
2007/7/30	1.693	1.679	1.718	1.693	1.679	1.718	2.321	2.316	2.331
2007/7/31	1.727	1.707	1.750	1.727	1.707	1.750	2.335	2.328	2.344
<i>Monthly</i>	2.068	1.679	2.402	2.068	1.679	2.402	2.525	2.287	2.721

Table 1-8 Water temperature data (°C) at 3 depths in Oyako Ike, August 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	1.785	1.752	1.802	1.785	1.752	1.802	2.346	2.344	2.350
2007/8/2	1.778	1.771	1.785	1.778	1.771	1.785	2.340	2.328	2.345
2007/8/3	1.776	1.769	1.781	1.776	1.769	1.781	2.299	2.273	2.326
2007/8/4	1.757	1.729	1.776	1.757	1.729	1.776	2.233	2.207	2.270
2007/8/5	1.708	1.696	1.729	1.708	1.696	1.729	2.191	2.183	2.206
2007/8/6	1.682	1.667	1.698	1.682	1.667	1.698	2.189	2.186	2.193
2007/8/7	1.687	1.666	1.713	1.687	1.666	1.713	2.207	2.193	2.224
2007/8/8	1.708	1.696	1.715	1.708	1.696	1.715	2.220	2.211	2.225
2007/8/9	1.692	1.682	1.705	1.692	1.682	1.705	2.221	2.215	2.233
2007/8/10	1.705	1.697	1.722	1.705	1.697	1.722	2.231	2.224	2.242
2007/8/11	1.698	1.688	1.707	1.698	1.688	1.707	2.241	2.238	2.247
2007/8/12	1.685	1.683	1.687	1.685	1.683	1.687	2.238	2.220	2.248
2007/8/13	1.681	1.678	1.685	1.681	1.678	1.685	2.212	2.210	2.220
2007/8/14	1.671	1.667	1.680	1.671	1.667	1.680	2.215	2.211	2.224
2007/8/15	1.670	1.661	1.680	1.670	1.661	1.680	2.226	2.219	2.238
2007/8/16	1.674	1.667	1.682	1.674	1.667	1.682	2.240	2.233	2.254
2007/8/17	1.661	1.653	1.670	1.661	1.653	1.670	2.253	2.249	2.260
2007/8/18	1.651	1.646	1.660	1.651	1.646	1.660	2.275	2.261	2.301
2007/8/19	1.650	1.633	1.684	1.650	1.633	1.684	2.306	2.292	2.333
2007/8/20	1.666	1.645	1.710	1.666	1.645	1.710	2.296	2.272	2.321
2007/8/21	1.680	1.675	1.684	1.680	1.675	1.684	2.237	2.213	2.270
2007/8/22	1.679	1.674	1.683	1.679	1.674	1.683	2.188	2.171	2.211
2007/8/23	1.668	1.659	1.674	1.668	1.659	1.674	2.161	2.153	2.170
2007/8/24	1.648	1.638	1.659	1.648	1.638	1.659	2.153	2.152	2.155
2007/8/25	1.636	1.634	1.639	1.636	1.634	1.639	2.159	2.155	2.164
2007/8/26	1.635	1.631	1.638	1.635	1.631	1.638	2.168	2.164	2.173
2007/8/27	1.635	1.631	1.638	1.635	1.631	1.638	2.169	2.165	2.173
2007/8/28	1.628	1.624	1.631	1.628	1.624	1.631	2.158	2.154	2.165
2007/8/29	1.623	1.619	1.627	1.623	1.619	1.627	2.160	2.156	2.166
2007/8/30	1.613	1.606	1.619	1.613	1.606	1.619	2.169	2.166	2.172
2007/8/31	1.600	1.594	1.607	1.600	1.594	1.607	2.171	2.169	2.171
<i>Monthly</i>	1.678	1.594	1.802	1.678	1.594	1.802	2.222	2.152	2.350

Table 1-9 Water temperature data (°C) at 3 depths in Oyako Ike, September 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/9/1	1.592	1.590	1.595	1.592	1.590	1.595	2.171	2.170	2.173
2007/9/2	1.590	1.586	1.594	1.590	1.586	1.594	2.176	2.172	2.181
2007/9/3	1.583	1.579	1.587	1.583	1.579	1.587	2.186	2.181	2.193
2007/9/4	1.577	1.572	1.581	1.577	1.572	1.581	2.199	2.193	2.204
2007/9/5	1.573	1.570	1.576	1.573	1.570	1.576	2.201	2.199	2.203
2007/9/6	1.572	1.570	1.574	1.572	1.570	1.574	2.205	2.202	2.210
2007/9/7	1.564	1.559	1.570	1.564	1.559	1.570	2.214	2.210	2.220
2007/9/8	1.558	1.554	1.564	1.558	1.554	1.564	2.221	2.218	2.226
2007/9/9	1.565	1.556	1.573	1.565	1.556	1.573	2.226	2.222	2.233
2007/9/10	1.569	1.567	1.573	1.569	1.567	1.573	2.234	2.230	2.241
2007/9/11	1.567	1.563	1.572	1.567	1.563	1.572	2.241	2.236	2.250
2007/9/12	1.558	1.548	1.564	1.558	1.548	1.564	2.249	2.245	2.256
2007/9/13	1.537	1.526	1.549	1.537	1.526	1.549	2.257	2.251	2.265
2007/9/14	1.522	1.518	1.527	1.522	1.518	1.527	2.259	2.254	2.263
2007/9/15	1.527	1.520	1.535	1.527	1.520	1.535	2.259	2.255	2.264
2007/9/16	1.525	1.515	1.533	1.525	1.515	1.533	2.259	2.253	2.264
2007/9/17	1.498	1.485	1.517	1.498	1.485	1.517	2.261	2.256	2.267
2007/9/18	1.468	1.449	1.487	1.468	1.449	1.487	2.258	2.252	2.263
2007/9/19	1.459	1.448	1.472	1.459	1.448	1.472	2.255	2.249	2.259
2007/9/20	1.492	1.471	1.517	1.492	1.471	1.517	2.246	2.239	2.253
2007/9/21	1.521	1.516	1.528	1.521	1.516	1.528	2.252	2.247	2.260
2007/9/22	1.511	1.503	1.520	1.511	1.503	1.520	2.260	2.253	2.272
2007/9/23	1.506	1.498	1.517	1.506	1.498	1.517	2.258	2.249	2.268
2007/9/24	1.515	1.508	1.525	1.515	1.508	1.525	2.268	2.261	2.278
2007/9/25	1.522	1.514	1.533	1.522	1.514	1.533	2.266	2.258	2.274
2007/9/26	1.531	1.523	1.542	1.531	1.523	1.542	2.269	2.264	2.278
2007/9/27	1.533	1.526	1.542	1.533	1.526	1.542	2.264	2.258	2.273
2007/9/28	1.532	1.525	1.541	1.532	1.525	1.541	2.263	2.260	2.267
2007/9/29	1.537	1.528	1.547	1.537	1.528	1.547	2.253	2.244	2.264
2007/9/30	1.549	1.541	1.559	1.549	1.541	1.559	2.242	2.231	2.250
<i>Monthly</i>	1.538	1.448	1.595	1.538	1.448	1.595	2.239	2.170	2.278

Table 1-10 Water temperature data (°C) at 3 depths in Oyako Ike, October 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/10/1	1.549	1.542	1.555	1.954	1.918	1.985	2.234	2.222	2.248
2007/10/2	1.542	1.538	1.546	1.899	1.891	1.917	2.218	2.202	2.233
2007/10/3	1.544	1.526	1.562	1.925	1.901	1.950	2.199	2.189	2.210
2007/10/4	1.565	1.554	1.577	1.952	1.943	1.963	2.206	2.201	2.214
2007/10/5	1.577	1.568	1.585	1.979	1.955	1.996	2.211	2.206	2.216
2007/10/6	1.574	1.567	1.584	1.860	1.782	1.948	2.194	2.186	2.205
2007/10/7	1.577	1.567	1.592	1.805	1.782	1.819	2.186	2.178	2.193
2007/10/8	1.577	1.564	1.593	1.808	1.803	1.816	2.189	2.178	2.206
2007/10/9	1.635	1.580	1.706	1.863	1.804	1.948	2.251	2.186	2.377
2007/10/10	1.799	1.672	1.966	2.019	1.935	2.127	2.440	2.302	2.699
2007/10/11	2.024	1.884	2.217	2.207	2.092	2.336	2.681	2.529	2.938
2007/10/12	2.167	2.074	2.330	2.426	2.295	2.632	2.943	2.807	3.165
2007/10/13	2.270	2.157	2.427	2.598	2.447	2.774	3.114	3.030	3.251
2007/10/14	2.455	2.309	2.653	2.872	2.696	3.076	3.243	3.111	3.433
2007/10/15	2.554	2.498	2.622	3.026	2.952	3.182	3.343	3.286	3.421
2007/10/16	2.599	2.584	2.621	3.207	3.116	3.277	3.293	3.248	3.359
2007/10/17	2.626	2.596	2.662	3.227	3.173	3.267	3.209	3.192	3.246
2007/10/18	2.699	2.648	2.769	3.214	3.176	3.259	3.196	3.164	3.244
2007/10/19	2.935	2.711	3.250	3.334	3.247	3.475	3.308	3.203	3.489
2007/10/20	3.242	3.014	3.552	3.418	3.314	3.554	3.515	3.412	3.684
2007/10/21	3.546	3.284	3.834	3.564	3.427	3.772	3.708	3.593	3.873
2007/10/22	3.621	3.591	3.649	3.553	3.545	3.565	3.743	3.669	3.851
2007/10/23	3.704	3.593	3.859	3.569	3.546	3.595	3.619	3.583	3.667
2007/10/24	3.869	3.861	3.874	3.611	3.595	3.640	3.555	3.537	3.582
2007/10/25	3.882	3.869	3.894	3.664	3.641	3.674	3.519	3.507	3.536
2007/10/26	3.854	3.766	3.881	3.668	3.657	3.671	3.490	3.479	3.506
2007/10/27	3.737	3.682	3.803	3.649	3.644	3.656	3.466	3.460	3.479
2007/10/28	3.869	3.801	3.979	3.667	3.641	3.740	3.459	3.445	3.508
2007/10/29	4.090	3.956	4.264	3.767	3.680	3.903	3.587	3.486	3.798
2007/10/30	4.302	4.135	4.527	3.865	3.733	4.070	3.847	3.735	4.029
2007/10/31	4.502	4.373	4.646	4.004	3.909	4.127	4.026	3.922	4.167
<i>Monthly</i>	2.725	1.526	4.646	2.877	1.782	4.127	3.038	2.178	4.167

Table 1-11 Water temperature data (°C) at 3 depths in Oyako Ike, November 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/11/1	4.446	4.336	4.541	4.048	3.974	4.131	4.104	4.042	4.158
2007/11/2	4.429	4.280	4.603	4.184	4.089	4.338	4.137	4.059	4.248
2007/11/3	4.530	4.338	4.676	4.391	4.257	4.572	4.268	4.148	4.431
2007/11/4	4.704	4.541	4.883	4.537	4.418	4.727	4.397	4.275	4.546
2007/11/5	4.873	4.724	5.016	4.628	4.457	4.786	4.534	4.420	4.672
2007/11/6	5.036	4.924	5.189	4.811	4.664	4.982	4.647	4.531	4.774
2007/11/7	5.206	5.070	5.367	4.994	4.846	5.172	4.748	4.634	4.887
2007/11/8	5.325	5.228	5.426	5.142	4.993	5.288	4.816	4.730	4.890
2007/11/9	5.422	5.347	5.494	5.291	5.159	5.431	4.884	4.807	4.976
2007/11/10	5.504	5.427	5.580	5.384	5.266	5.512	4.979	4.906	5.070
2007/11/11	5.599	5.515	5.680	5.490	5.392	5.608	5.087	5.011	5.189
2007/11/12	5.694	5.621	5.774	5.588	5.494	5.686	5.187	5.103	5.288
2007/11/13	5.792	5.713	5.864	5.680	5.553	5.782	5.279	5.187	5.393
2007/11/14	5.899	5.817	5.966	5.788	5.674	5.898	5.396	5.317	5.492
2007/11/15	6.011	5.943	6.067	5.903	5.781	6.034	5.502	5.424	5.601
2007/11/16	6.113	6.048	6.172	6.017	5.868	6.131	5.615	5.535	5.714
2007/11/17	6.214	6.147	6.279	6.127	6.014	6.200	5.725	5.654	5.814
2007/11/18	6.301	6.222	6.362	6.215	6.106	6.309	5.822	5.752	5.908
2007/11/19	6.392	6.306	6.480	6.323	6.157	6.412	5.919	5.850	6.002
2007/11/20	6.500	6.429	6.578	6.412	6.302	6.511	6.010	5.941	6.100
2007/11/21	6.609	6.533	6.679	6.507	6.434	6.615	6.115	6.045	6.210
2007/11/22	6.668	6.638	6.743	6.621	6.560	6.681	6.201	6.154	6.267
2007/11/23	6.696	6.648	6.758	6.629	6.584	6.688	6.249	6.208	6.304
2007/11/24	6.767	6.672	6.860	6.659	6.551	6.775	6.344	6.260	6.466
2007/11/25	6.873	6.828	6.912	6.794	6.735	6.846	6.465	6.401	6.545
2007/11/26	6.957	6.887	7.044	6.898	6.835	6.966	6.560	6.483	6.646
2007/11/27	7.078	6.974	7.177	6.992	6.900	7.115	6.672	6.579	6.795
2007/11/28	7.214	7.145	7.307	7.135	7.068	7.255	6.812	6.723	6.940
2007/11/29	7.184	7.029	7.268	7.062	6.791	7.250	6.949	6.860	7.070
2007/11/30	7.146	7.035	7.296	7.052	6.972	7.127	7.068	6.983	7.174
<i>Monthly</i>	5.973	4.280	7.307	5.843	3.974	7.255	5.550	4.042	7.174

Table 1-12 Water temperature data (°C) at 3 depths in Oyako Ike, December 2007

Depth Date	2.5 m			4.5 m			6.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/12/1	7.259	7.185	7.349	7.204	7.124	7.278	7.144	7.088	7.207
2007/12/2	7.239	7.157	7.307	7.044	6.741	7.292	7.175	7.137	7.219
2007/12/3	7.214	7.149	7.293	7.077	6.964	7.185	7.199	7.146	7.266
2007/12/4	7.320	7.230	7.420	7.220	7.156	7.307	7.276	7.199	7.372
2007/12/5	7.372	7.351	7.421	7.285	7.215	7.323	7.340	7.299	7.387
2007/12/6	7.416	7.343	7.513	7.319	7.213	7.399	7.384	7.320	7.469
2007/12/7	7.477	7.424	7.577	7.418	7.347	7.504	7.471	7.404	7.560
2007/12/8	6.181	5.355	7.488	5.936	5.155	7.484	7.192	6.770	7.554
2007/12/9	4.710	4.022	5.805	5.367	5.266	5.496	6.616	6.562	6.752
2007/12/10	4.288	3.616	4.700	5.550	5.431	5.612	6.507	6.463	6.595
2007/12/11	3.214	2.382	4.087	5.545	5.468	5.610	6.444	6.399	6.495
2007/12/12	2.388	2.034	2.967	5.566	5.408	5.661	6.491	6.415	6.571
2007/12/13	2.324	1.858	2.755	5.556	5.275	5.705	6.487	6.396	6.561
2007/12/14	2.074	1.756	2.429	5.267	4.324	5.580	6.470	6.426	6.546
2007/12/15	2.430	2.021	3.252	5.270	4.546	5.598	6.455	6.377	6.528
2007/12/16	3.285	2.962	3.795	5.091	4.438	5.516	6.437	6.373	6.503
2007/12/17	3.887	3.673	4.215	5.191	4.335	5.675	6.443	6.381	6.503
2007/12/18	4.215	3.934	4.419	5.281	4.580	5.747	6.461	6.411	6.498
2007/12/19	4.283	4.162	4.452	5.468	4.827	5.780	6.441	6.405	6.482
2007/12/20	3.747	2.880	4.464	4.807	3.692	5.702	6.513	6.416	6.685
2007/12/21	3.675	3.340	4.094	4.224	3.847	4.562	6.626	6.543	6.722
2007/12/22	4.053	3.846	4.269	4.255	4.063	4.435	6.713	6.629	6.825
2007/12/23	4.005	3.235	4.273	4.290	3.836	4.579	6.685	6.642	6.812
2007/12/24	2.856	2.370	3.506	3.893	3.437	4.331	6.581	6.536	6.647
2007/12/25	2.923	2.629	3.468	3.936	3.633	4.228	6.512	6.496	6.537
2007/12/26	3.393	3.049	3.782	3.732	3.492	4.018	6.520	6.477	6.580
2007/12/27	3.722	3.551	3.872	3.809	3.731	3.950	6.542	6.507	6.577
2007/12/28	3.738	3.509	4.080	3.951	3.850	4.110	6.474	6.445	6.550
2007/12/29	3.655	3.426	3.925	4.035	3.789	4.182	6.416	6.375	6.463
2007/12/30	3.828	3.485	4.239	4.016	3.737	4.191	6.437	6.384	6.500
2007/12/31	4.206	3.781	4.808	4.141	4.006	4.380	6.480	6.417	6.553
<i>Monthly</i>	4.464	1.756	7.577	5.314	3.437	7.504	6.708	6.373	7.560

Table 1-13 Water temperature data (°C) at 3 depths in Oyako Ike, January 2008

Depth Date	2.5 m			4.5 m			6.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	4.374	4.072	4.644	4.374	4.072	4.644	6.469	6.427	6.536
2008/1/2	4.234	3.888	4.580	4.234	3.888	4.580	6.341	6.303	6.421
2008/1/3	4.357	4.136	4.649	4.357	4.136	4.649	6.249	6.229	6.301
2008/1/4	4.429	3.919	4.965	4.429	3.919	4.965	6.191	6.158	6.227
2008/1/5	4.629	4.108	4.955	4.629	4.108	4.955	6.197	6.132	6.341
2008/1/6	4.453	4.170	4.882	4.453	4.170	4.882	6.267	6.233	6.330
2008/1/7	2.734	1.383	4.146	2.734	1.383	4.146	3.862	1.714	6.253
2008/1/8	1.361	0.959	2.088	1.361	0.959	2.088	2.129	1.362	2.893
2008/1/9	2.451	1.893	3.429	2.451	1.893	3.429	3.174	2.913	3.691
2008/1/10	3.234	3.008	3.521	3.234	3.008	3.521	3.597	3.440	3.704
2008/1/11	2.399	2.107	2.993	2.399	2.107	2.993	2.806	2.343	3.458
2008/1/12	2.151	1.827	2.713	2.151	1.827	2.713	2.623	2.251	2.962
2008/1/13	2.866	2.333	3.794	2.866	2.333	3.794	3.252	2.972	3.744
2008/1/14	4.018	3.357	5.095	4.018	3.357	5.095	3.874	3.668	4.278
2008/1/15	4.451	3.898	5.134	4.451	3.898	5.134	4.342	4.156	4.607
2008/1/16	4.902	4.425	5.688	4.902	4.425	5.688	4.705	4.520	5.038
2008/1/17	5.506	5.039	6.075	5.506	5.039	6.075	5.054	4.884	5.237
2008/1/18	5.903	5.448	6.301	5.903	5.448	6.301	5.450	5.255	5.753
2008/1/19	5.924	5.749	6.216	5.924	5.749	6.216	5.657	5.566	5.735
<i>Monthly</i>	3.915	0.959	6.301	3.915	0.959	6.301	4.644	1.362	6.536

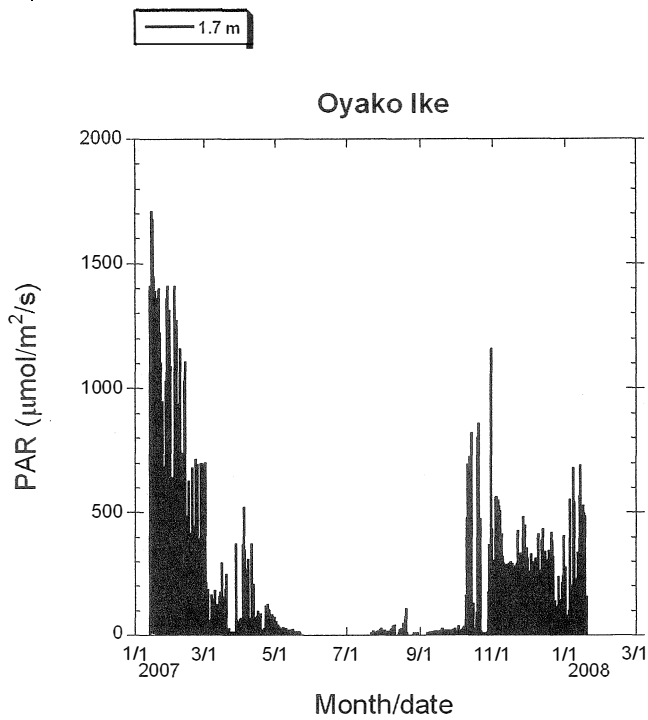


Fig. 4. Seasonal changes of photosynthetically active radiation (PAR) at 1.7 m depth in Oyako Ike (2007-2008). 10-minute interval data.

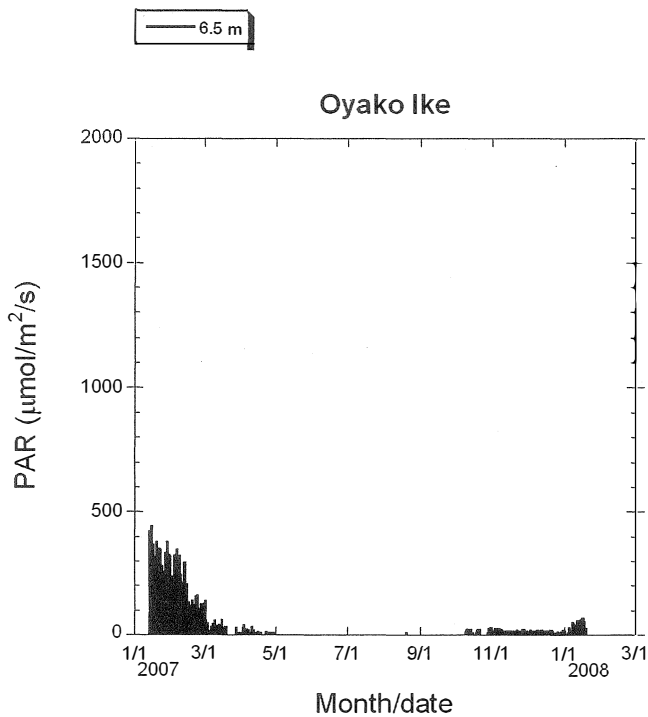


Fig. 5. Seasonal changes of PAR at 6.5 m depth in Oyako Ike (2007-2008). 10-minute interval data.

Table 2-1 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, January 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/14	444	9	1406	140	2	420
2007/1/15	501	15	1707	150	3	442
2007/1/16	497	13	1676	140	3	293
2007/1/17	263	12	1447	88	2	367
2007/1/18	391	12	1387	124	3	316
2007/1/19	242	4	639	89	1	217
2007/1/20	371	6	1357	121	2	377
2007/1/21	446	9	1395	141	2	309
2007/1/22	316	7	1221	113	2	349
2007/1/23	277	5	1102	101	1	345
2007/1/24	349	5	945	118	1	278
2007/1/25	262	4	681	101	1	256
2007/1/26	225	2	515	87	1	199
2007/1/27	380	2	1027	131	1	332
2007/1/28	422	2	1357	132	0	306
2007/1/29	317	1	1407	111	0	377
2007/1/30	346	1	1311	125	0	324
2007/1/31	398	1	1086	132	0	319
<i>Monthly</i>	358	1	1707	119	0	442

Table 2-2 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, February 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	153	0	505	63	0	211
2007/2/2	202	0	638	79	0	236
2007/2/3	153	0	484	63	0	200
2007/2/4	406	0	1407	129	0	321
2007/2/5	351	0	1269	118	0	327
2007/2/6	228	0	935	89	0	347
2007/2/7	112	0	315	46	0	129
2007/2/8	300	0	1156	112	0	323
2007/2/9	169	0	585	69	0	245
2007/2/10	178	0	736	68	0	207
2007/2/11	98	0	335	41	0	142
2007/2/12	310	0	1026	110	0	292
2007/2/13	309	0	1104	109	0	295
2007/2/14	116	0	484	49	0	204
2007/2/15	80	0	262	22	0	70
2007/2/16	169	0	626	44	0	133
2007/2/17	113	0	414	32	0	108
2007/2/18	112	0	413	32	0	117
2007/2/19	154	0	679	41	0	136
2007/2/20	161	0	442	43	0	119
2007/2/21	81	0	259	23	0	72
2007/2/22	191	0	712	49	0	156
2007/2/23	219	0	692	50	0	161
2007/2/24	68	0	389	18	0	105
2007/2/25	101	0	374	25	0	101
2007/2/26	196	0	695	43	0	125
2007/2/27	200	0	695	43	0	126
2007/2/28	203	0	677	43	0	123
<i>Monthly</i>	183	0	1407	59	0	347

Table 2-3 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, March 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	199	0	690	42	0	129
2007/3/2	131	0	700	33	0	139
2007/3/3	61	0	213	16	0	56
2007/3/4	29	0	183	7	0	48
2007/3/5	6	0	32	1	0	7
2007/3/6	10	0	55	2	0	15
2007/3/7	35	0	161	7	0	34
2007/3/8	14	0	49	4	0	13
2007/3/9	42	0	144	12	0	44
2007/3/10	44	0	182	13	0	57
2007/3/11	32	0	102	9	0	29
2007/3/12	35	0	125	10	0	35
2007/3/13	32	0	120	9	0	32
2007/3/14	48	0	157	12	0	40
2007/3/15	52	0	173	12	0	41
2007/3/16	45	0	293	9	0	61
2007/3/17	39	0	156	8	0	30
2007/3/18	2	0	7	0	0	1
2007/3/19	45	0	187	7	0	33
2007/3/20	58	0	248	8	0	33
2007/3/21	5	0	18	1	0	4
2007/3/22	6	0	26	1	0	4
2007/3/23	2	0	11	0	0	2
2007/3/24	2	0	9	0	0	2
2007/3/25	2	0	10	0	0	2
2007/3/26	3	0	10	0	0	2
2007/3/27	2	0	12	0	0	2
2007/3/28	28	0	371	4	0	27
2007/3/29	13	0	60	2	0	8
2007/3/30	9	0	53	1	0	6
2007/3/31	13	0	50	1	0	6
<i>Monthly</i>	34	0	700	8	0	139

Table 2-4 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, April 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	14	0	63	1	0	8
2007/4/2	12	0	68	1	0	8
2007/4/3	65	0	367	6	0	29
2007/4/4	54	0	520	5	0	39
2007/4/5	61	0	347	5	0	23
2007/4/6	48	0	266	4	0	22
2007/4/7	34	0	165	3	0	17
2007/4/8	48	0	308	4	0	20
2007/4/9	16	0	67	2	0	8
2007/4/10	13	0	64	1	0	8
2007/4/11	47	0	371	5	0	31
2007/4/12	30	0	205	3	0	19
2007/4/13	9	0	43	1	0	5
2007/4/14	15	0	72	1	0	9
2007/4/15	14	0	75	1	0	9
2007/4/16	15	0	94	2	0	10
2007/4/17	8	0	49	1	0	6
2007/4/18	13	0	84	1	0	9
2007/4/19	4	0	19	0	0	3
2007/4/20	4	0	18	0	0	2
2007/4/21	5	0	25	0	0	3
2007/4/22	4	0	23	0	0	2
2007/4/23	18	0	118	2	0	10
2007/4/24	18	0	124	2	0	9
2007/4/25	14	0	104	1	0	8
2007/4/26	13	0	100	1	0	8
2007/4/27	14	0	81	1	0	8
2007/4/28	11	0	83	1	0	7
2007/4/29	10	0	75	1	0	8
2007/4/30	10	0	72	1	0	6
<i>Monthly</i>	21	0	520	2	0	39

Table 2-5 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, May 2007

Depth	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	5	0	39	0	0	5
2007/5/2	8	0	55	1	0	5
2007/5/3	6	0	38	1	0	5
2007/5/4	4	0	31	0	0	4
2007/5/5	5	0	29	0	0	3
2007/5/6	3	0	22	0	0	3
2007/5/7	5	0	27	0	0	3
2007/5/8	4	0	29	0	0	3
2007/5/9	4	0	26	0	0	3
2007/5/10	4	0	25	0	0	3
2007/5/11	2	0	18	0	0	2
2007/5/12	3	0	19	0	0	2
2007/5/13	3	0	19	0	0	2
2007/5/14	3	0	18	0	0	2
2007/5/15	2	0	17	0	0	2
2007/5/16	2	0	20	0	0	2
2007/5/17	1	0	9	0	0	1
2007/5/18	2	0	12	0	0	1
2007/5/19	2	0	12	0	0	1
2007/5/20	1	0	12	0	0	1
2007/5/21	1	0	10	0	0	1
2007/5/22	1	0	9	0	0	1
2007/5/23	0	0	3	0	0	1
2007/5/24	0	0	1	0	0	1
2007/5/25	0	0	1	0	0	1
2007/5/26	0	0	1	0	0	1
2007/5/27	0	0	2	0	0	1
2007/5/28	0	0	1	0	0	1
2007/5/29	0	0	4	0	0	1
2007/5/30	0	0	4	0	0	1
2007/5/31	0	0	3	0	0	1
<i>Monthly</i>	2	0	55	0	0	5

Table 2-6 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, June 2007

Depth	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	0	0	2	0	0	1
2007/6/2	0	0	2	0	0	0
2007/6/3	0	0	2	0	0	1
2007/6/4	0	0	1	0	0	1
2007/6/5	0	0	2	0	0	1
2007/6/6	0	0	2	0	0	1
2007/6/7	0	0	2	0	0	1
2007/6/8	0	0	2	0	0	1
2007/6/9	0	0	2	0	0	1
2007/6/10	0	0	2	0	0	1
2007/6/11	0	0	2	0	0	1
2007/6/12	0	0	1	0	0	1
2007/6/13	0	0	1	0	0	1
2007/6/14	0	0	1	0	0	1
2007/6/15	0	0	1	0	0	0
2007/6/16	0	0	1	0	0	1
2007/6/17	0	0	1	0	0	1
2007/6/18	0	0	1	0	0	1
2007/6/19	0	0	1	0	0	1
2007/6/20	0	0	1	0	0	1
2007/6/21	0	0	1	0	0	1
2007/6/22	0	0	1	0	0	1
2007/6/23	0	0	1	0	0	1
2007/6/24	0	0	1	0	0	1
2007/6/25	0	0	1	0	0	1
2007/6/26	0	0	1	0	0	1
2007/6/27	0	0	1	0	0	1
2007/6/28	0	0	1	0	0	1
2007/6/29	0	0	1	0	0	1
2007/6/30	0	0	1	0	0	1
<i>Monthly</i>	0	0	2	0	0	1

Table 2-7 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, July 2007

Depth Date	1.7 m			6.5 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/7/1	0	0	1	0	0	1
2007/7/2	0	0	2	0	0	1
2007/7/3	0	0	1	0	0	1
2007/7/4	0	0	1	0	0	1
2007/7/5	0	0	2	0	0	1
2007/7/6	0	0	1	0	0	1
2007/7/7	0	0	3	0	0	1
2007/7/8	0	0	2	0	0	1
2007/7/9	0	0	2	0	0	1
2007/7/10	0	0	3	0	0	1
2007/7/11	0	0	3	0	0	1
2007/7/12	0	0	4	0	0	1
2007/7/13	0	0	4	0	0	1
2007/7/14	0	0	5	0	0	1
2007/7/15	0	0	5	0	0	1
2007/7/16	0	0	3	0	0	1
2007/7/17	0	0	4	0	0	1
2007/7/18	0	0	4	0	0	1
2007/7/19	1	0	5	0	0	0
2007/7/20	1	0	5	0	0	1
2007/7/21	0	0	5	0	0	1
2007/7/22	1	0	9	0	0	1
2007/7/23	2	0	16	0	0	2
2007/7/24	1	0	6	0	0	0
2007/7/25	1	0	9	0	0	1
2007/7/26	2	0	12	0	0	1
2007/7/27	2	0	14	0	0	1
2007/7/28	2	0	16	0	0	2
2007/7/29	3	0	23	0	0	2
2007/7/30	4	0	27	0	0	2
2007/7/31	3	0	18	0	0	2
<i>Monthly</i>	1	0	27	0	0	2

Table 2-8 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, August 2007

Depth Date	1.7 m			6.5 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/8/1	3	0	19	0	0	2
2007/8/2	2	0	19	0	0	2
2007/8/3	2	0	11	0	0	1
2007/8/4	1	0	11	0	0	1
2007/8/5	2	0	15	0	0	2
2007/8/6	2	0	14	0	0	2
2007/8/7	3	0	20	0	0	2
2007/8/8	4	0	26	0	0	3
2007/8/9	5	0	35	0	0	3
2007/8/10	5	0	38	0	0	3
2007/8/11	0	0	3	0	0	1
2007/8/12	0	0	2	0	0	1
2007/8/13	0	0	2	0	0	1
2007/8/14	1	0	9	0	0	2
2007/8/15	3	0	20	0	0	3
2007/8/16	5	0	25	0	0	2
2007/8/17	0	0	3	0	0	1
2007/8/18	8	0	46	1	0	5
2007/8/19	12	0	75	1	0	5
2007/8/20	13	0	105	1	0	7
2007/8/21	1	0	7	0	0	1
2007/8/22	0	0	2	0	0	1
2007/8/23	0	0	4	0	0	1
2007/8/24	0	0	4	0	0	1
2007/8/25	1	0	5	0	0	1
2007/8/26	1	0	5	0	0	1
2007/8/27	1	0	6	0	0	0
2007/8/28	1	0	7	0	0	1
2007/8/29	1	0	8	0	0	1
2007/8/30	1	0	6	0	0	1
2007/8/31	0	0	2	0	0	1
<i>Monthly</i>	3	0	105	0	0	7

Table 2-9 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, September 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/9/1	0	0	2	0	0	1
2007/9/2	0	0	2	0	0	1
2007/9/3	1	0	4	0	0	1
2007/9/4	1	0	4	0	0	1
2007/9/5	1	0	5	0	0	1
2007/9/6	1	0	5	0	0	1
2007/9/7	1	0	6	0	0	1
2007/9/8	2	0	9	0	0	1
2007/9/9	2	0	10	0	0	1
2007/9/10	2	0	10	0	0	1
2007/9/11	2	0	11	0	0	2
2007/9/12	3	0	11	0	0	2
2007/9/13	3	0	14	0	0	2
2007/9/14	3	0	13	0	0	2
2007/9/15	3	0	14	0	0	2
2007/9/16	4	0	16	0	0	2
2007/9/17	3	0	14	0	0	2
2007/9/18	4	0	16	0	0	2
2007/9/19	4	0	22	0	0	2
2007/9/20	4	0	24	0	0	2
2007/9/21	4	0	13	0	0	2
2007/9/22	4	0	18	0	0	2
2007/9/23	5	0	17	0	0	2
2007/9/24	5	0	19	0	0	2
2007/9/25	5	0	16	0	0	2
2007/9/26	5	0	17	0	0	2
2007/9/27	5	0	18	0	0	2
2007/9/28	5	0	19	0	0	2
2007/9/29	5	0	20	0	0	2
2007/9/30	6	0	25	0	0	2
<i>Monthly</i>	3	0	25	0	0	2

Table 2-10 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, October 2007

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/10/1	5	0	15	0	0	2
2007/10/2	3	0	11	0	0	1
2007/10/3	9	0	37	0	0	3
2007/10/4	4	0	14	0	0	1
2007/10/5	6	0	19	0	0	2
2007/10/6	7	0	23	0	0	2
2007/10/7	7	0	25	0	0	2
2007/10/8	10	0	33	0	0	2
2007/10/9	49	0	160	3	0	11
2007/10/10	124	0	476	6	0	19
2007/10/11	145	0	691	6	0	22
2007/10/12	128	0	725	6	0	22
2007/10/13	80	0	328	5	0	21
2007/10/14	159	0	820	7	0	22
2007/10/15	43	0	128	3	0	9
2007/10/16	6	0	16	0	0	1
2007/10/17	8	0	24	0	0	2
2007/10/18	32	0	91	2	0	6
2007/10/19	176	0	801	7	0	20
2007/10/20	184	0	859	7	0	21
2007/10/21	139	0	473	7	0	22
2007/10/22	5	0	15	0	0	1
2007/10/23	2	0	9	0	0	1
2007/10/24	3	0	9	0	0	1
2007/10/25	3	0	9	0	0	1
2007/10/26	3	0	9	0	0	1
2007/10/27	4	0	12	0	0	0
2007/10/28	25	0	174	1	0	8
2007/10/29	110	0	368	6	0	25
2007/10/30	207	0	1156	8	0	27
2007/10/31	162	0	430	8	0	21
<i>Monthly</i>	60	0	1156	3	0	27

Table 2-11 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, November 2007

Depth Date	1.7 m			6.5 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/11/1	77	0	251	4	0	15
2007/11/2	110	0	304	6	0	16
2007/11/3	209	0	557	10	0	25
2007/11/4	213	0	561	10	0	25
2007/11/5	212	0	547	10	0	26
2007/11/6	210	0	523	10	0	25
2007/11/7	189	0	504	9	0	24
2007/11/8	143	0	408	7	0	23
2007/11/9	128	0	319	7	0	17
2007/11/10	118	0	293	6	0	16
2007/11/11	116	0	286	6	0	16
2007/11/12	115	0	282	6	0	16
2007/11/13	118	0	286	6	0	16
2007/11/14	120	0	288	6	0	16
2007/11/15	121	0	294	6	0	16
2007/11/16	125	1	297	6	0	16
2007/11/17	122	1	291	6	0	15
2007/11/18	112	1	269	5	0	14
2007/11/19	117	1	280	6	0	14
2007/11/20	117	1	284	5	0	14
2007/11/21	122	1	289	6	0	14
2007/11/22	85	1	425	4	0	18
2007/11/23	67	1	178	3	0	9
2007/11/24	143	2	331	6	0	16
2007/11/25	101	2	230	4	0	10
2007/11/26	114	2	481	5	0	21
2007/11/27	154	2	350	7	0	16
2007/11/28	143	4	445	6	0	20
2007/11/29	153	3	353	7	0	16
2007/11/30	139	3	311	6	0	15
<i>Monthly</i>	134	0	561	6	0	26

Table 2-12 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, December 2007

Depth Date	1.7 m			6.5 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/12/1	97	3	259	4	0	12
2007/12/2	68	2	181	3	0	9
2007/12/3	99	2	329	4	0	17
2007/12/4	132	5	297	6	0	14
2007/12/5	72	3	250	3	0	11
2007/12/6	107	2	297	5	0	14
2007/12/7	114	5	312	5	0	15
2007/12/8	135	3	307	6	0	15
2007/12/9	131	5	409	6	0	19
2007/12/10	56	2	144	2	0	7
2007/12/11	115	3	260	5	0	13
2007/12/12	174	7	386	8	0	18
2007/12/13	150	6	429	7	0	19
2007/12/14	108	9	339	5	0	15
2007/12/15	151	9	336	7	0	16
2007/12/16	140	7	304	6	0	15
2007/12/17	138	6	305	6	0	15
2007/12/18	96	7	342	4	0	16
2007/12/19	84	2	271	4	0	12
2007/12/20	153	6	417	7	0	20
2007/12/21	128	8	386	6	0	18
2007/12/22	145	8	318	7	0	16
2007/12/23	41	5	139	2	0	7
2007/12/24	26	2	67	1	0	4
2007/12/25	36	1	114	1	0	6
2007/12/26	77	3	235	3	0	12
2007/12/27	67	3	143	3	0	7
2007/12/28	34	3	95	1	0	5
2007/12/29	67	2	212	3	0	11
2007/12/30	98	5	239	5	0	12
2007/12/31	125	5	402	6	0	19
<i>Monthly</i>	102	1	429	5	0	20

Table 2-13 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Oyako Ike, January 2008

Depth Date	1.7 m			6.5 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2008/1/1	56	2	276	2	0	15
2008/1/2	19	0	79	1	0	3
2008/1/3	23	1	61	1	0	3
2008/1/4	41	1	100	2	0	6
2008/1/5	118	2	552	6	0	28
2008/1/6	58	2	197	3	0	12
2008/1/7	58	1	127	7	0	16
2008/1/8	153	3	677	15	0	48
2008/1/9	228	8	540	18	0	43
2008/1/10	51	7	140	6	1	17
2008/1/11	76	2	227	13	0	41
2008/1/12	103	2	336	16	0	56
2008/1/13	229	8	565	25	1	55
2008/1/14	222	6	689	25	1	58
2008/1/15	173	5	501	22	1	59
2008/1/16	162	2	527	22	0	67
2008/1/17	159	3	495	21	0	69
2008/1/18	152	3	483	19	0	52
2008/1/19	38	1	157	6	0	27
<i>Monthlv</i>	112	0	689	12	0	69

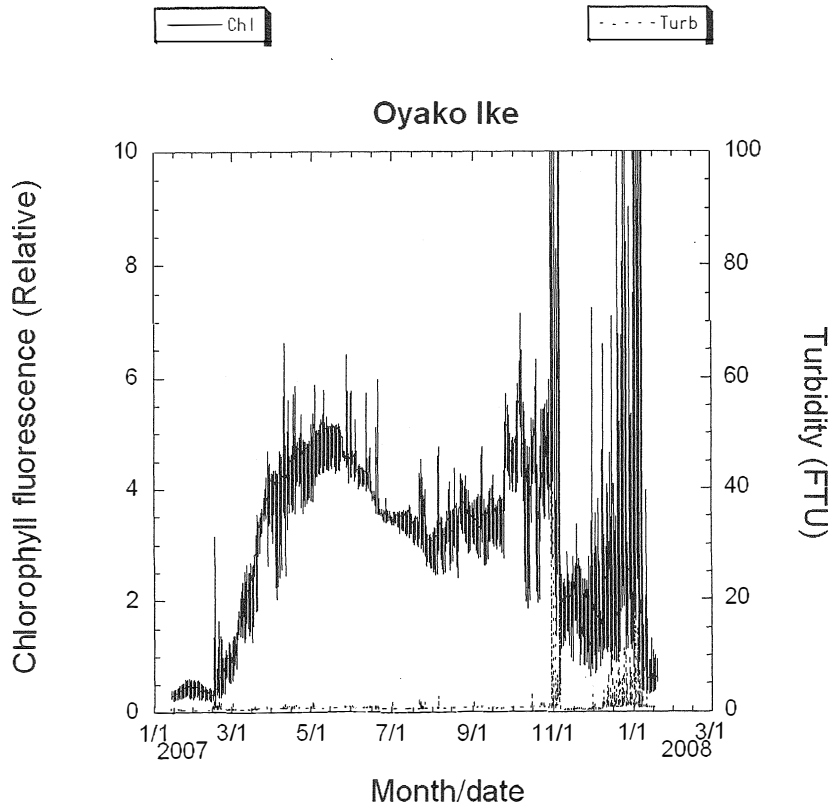


Fig. 6. Seasonal changes of chlorophyll fluorescence and turbidity at 2.5 m depth in Oyako Ike (2007-2008). 60-minute interval data.

Table 3-1 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, January 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/14	0.32	0.23	0.44	0.56	0.50	1.10
2007/1/15	0.30	0.21	0.43	0.54	0.50	0.60
2007/1/16	0.31	0.21	0.43	0.51	0.50	0.70
2007/1/17	0.33	0.21	0.43	0.50	0.40	0.60
2007/1/18	0.33	0.22	0.45	0.50	0.40	0.60
2007/1/19	0.36	0.27	0.48	0.49	0.40	0.50
2007/1/20	0.37	0.24	0.51	0.46	0.40	0.50
2007/1/21	0.36	0.24	0.53	0.42	0.40	0.50
2007/1/22	0.39	0.26	0.54	0.41	0.40	0.50
2007/1/23	0.40	0.25	0.54	0.40	0.40	0.40
2007/1/24	0.41	0.27	0.60	0.40	0.30	0.40
2007/1/25	0.42	0.30	0.59	0.40	0.40	0.40
2007/1/26	0.43	0.31	0.61	0.40	0.30	0.40
2007/1/27	0.42	0.25	0.65	0.39	0.30	0.40
2007/1/28	0.41	0.24	0.61	0.37	0.30	0.40
2007/1/29	0.41	0.27	0.60	0.37	0.30	0.40
2007/1/30	0.40	0.21	0.61	0.35	0.30	0.40
2007/1/31	0.39	0.25	0.60	0.32	0.30	0.40
<i>Monthly</i>	0.37	0.21	0.65	0.43	0.30	1.10

Table 3-2 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, February 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	0.43	0.30	0.59	0.31	0.30	0.40
2007/2/2	0.43	0.27	0.60	0.30	0.30	0.40
2007/2/3	0.43	0.31	0.60	0.30	0.30	0.40
2007/2/4	0.38	0.21	0.59	0.30	0.30	0.30
2007/2/5	0.36	0.23	0.53	0.30	0.30	0.40
2007/2/6	0.36	0.23	0.51	0.30	0.30	0.40
2007/2/7	0.37	0.28	0.51	0.30	0.30	0.40
2007/2/8	0.33	0.21	0.49	0.30	0.30	0.30
2007/2/9	0.34	0.23	0.44	0.30	0.30	0.30
2007/2/10	0.33	0.23	0.44	0.30	0.30	0.30
2007/2/11	0.36	0.25	0.46	0.30	0.30	0.30
2007/2/12	0.31	0.19	0.46	0.30	0.30	0.30
2007/2/13	0.30	0.19	0.43	0.30	0.20	0.30
2007/2/14	0.33	0.24	0.41	0.30	0.30	0.30
2007/2/15	0.50	0.29	3.25	0.98	0.30	8.20
2007/2/16	0.67	0.25	8.04	1.10	0.50	7.10
2007/2/17	0.49	0.33	0.92	0.73	0.40	1.40
2007/2/18	0.60	0.36	1.29	0.77	0.40	1.60
2007/2/19	0.62	0.27	1.83	0.84	0.40	2.80
2007/2/20	0.60	0.27	1.66	0.88	0.40	3.70
2007/2/21	0.59	0.30	1.50	0.66	0.40	1.90
2007/2/22	0.65	0.35	1.10	0.63	0.60	0.80
2007/2/23	0.61	0.31	1.05	0.61	0.50	0.70
2007/2/24	0.83	0.60	1.26	0.61	0.50	0.80
2007/2/25	0.85	0.63	1.10	0.57	0.50	0.70
2007/2/26	0.89	0.55	1.34	0.59	0.50	0.70
2007/2/27	0.82	0.51	1.32	0.56	0.50	0.60
2007/2/28	0.83	0.52	1.14	0.54	0.50	0.60
<i>Monthly</i>	0.52	0.19	8.04	0.51	0.20	8.20

Table 3-3 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, March 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	0.95	0.57	1.39	0.57	0.50	0.60
2007/3/2	1.03	0.66	1.46	0.55	0.50	0.60
2007/3/3	1.09	0.82	1.45	0.56	0.40	1.10
2007/3/4	1.27	0.76	1.60	0.56	0.40	1.20
2007/3/5	1.50	1.28	1.72	0.52	0.50	0.80
2007/3/6	1.65	1.40	1.93	0.51	0.50	0.60
2007/3/7	1.73	1.34	2.15	0.51	0.50	0.60
2007/3/8	1.91	1.52	2.27	0.52	0.50	0.60
2007/3/9	1.88	1.31	2.45	0.52	0.40	0.60
2007/3/10	1.95	1.23	2.62	0.53	0.50	0.60
2007/3/11	1.85	1.34	2.35	0.51	0.40	0.60
2007/3/12	2.15	1.58	2.73	0.50	0.50	0.60
2007/3/13	2.06	1.48	2.61	0.51	0.50	0.60
2007/3/14	2.07	1.37	2.61	0.52	0.50	0.60
2007/3/15	2.13	1.43	2.77	0.52	0.40	0.60
2007/3/16	2.12	1.25	2.71	0.53	0.50	0.60
2007/3/17	2.21	1.53	2.75	0.58	0.50	0.60
2007/3/18	2.64	2.39	2.97	0.59	0.50	0.70
2007/3/19	2.64	1.56	3.65	0.66	0.50	1.90
2007/3/20	2.80	1.61	4.30	0.64	0.50	2.00
2007/3/21	3.17	2.73	3.59	0.59	0.50	0.60
2007/3/22	3.25	2.77	3.69	0.60	0.50	0.70
2007/3/23	3.36	3.03	3.78	0.60	0.50	0.70
2007/3/24	3.47	3.10	3.86	0.60	0.60	0.60
2007/3/25	3.63	3.32	4.12	0.60	0.50	0.60
2007/3/26	3.84	3.42	4.28	0.60	0.60	0.60
2007/3/27	3.87	3.34	4.49	0.60	0.60	0.70
2007/3/28	3.70	2.49	6.02	0.69	0.50	2.70
2007/3/29	3.97	3.24	4.66	0.61	0.60	0.70
2007/3/30	4.02	3.28	4.73	0.61	0.60	0.70
2007/3/31	3.83	3.16	4.57	0.60	0.60	0.70
<i>Monthly</i>	2.51	0.57	6.02	0.57	0.40	2.70

Table 3-4 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, April 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	3.70	3.00	4.56	0.60	0.60	0.70
2007/4/2	3.92	3.44	4.67	0.62	0.60	0.70
2007/4/3	3.65	2.17	4.66	0.65	0.60	0.80
2007/4/4	3.68	1.99	4.58	0.66	0.60	0.70
2007/4/5	3.68	2.21	4.53	0.67	0.60	0.70
2007/4/6	3.78	2.37	4.79	0.69	0.60	0.80
2007/4/7	4.06	2.96	4.83	0.62	0.60	0.70
2007/4/8	3.94	2.51	4.83	0.62	0.60	0.70
2007/4/9	4.15	2.79	6.92	0.66	0.50	1.60
2007/4/10	4.36	2.21	8.90	0.87	0.50	3.50
2007/4/11	3.90	2.36	5.74	0.64	0.60	0.90
2007/4/12	4.07	3.21	5.35	0.72	0.60	1.40
2007/4/13	4.35	3.22	8.96	0.75	0.60	2.70
2007/4/14	4.19	3.52	4.79	0.65	0.60	0.70
2007/4/15	4.30	3.62	4.89	0.68	0.60	0.70
2007/4/16	4.34	3.34	5.21	0.71	0.60	1.00
2007/4/17	4.67	2.09	9.14	0.79	0.50	2.70
2007/4/18	4.49	2.71	8.21	0.75	0.50	2.40
2007/4/19	4.49	3.96	5.07	0.69	0.60	0.70
2007/4/20	4.60	4.03	5.13	0.70	0.70	0.80
2007/4/21	4.60	3.94	5.19	0.70	0.70	0.80
2007/4/22	4.67	3.89	5.43	0.72	0.70	0.90
2007/4/23	4.58	3.46	6.44	0.71	0.60	1.20
2007/4/24	4.40	3.22	5.30	0.64	0.60	0.90
2007/4/25	4.43	3.72	5.14	0.66	0.60	0.70
2007/4/26	4.45	3.60	5.15	0.64	0.60	0.70
2007/4/27	4.45	3.62	5.27	0.66	0.60	0.70
2007/4/28	4.46	3.72	5.09	0.66	0.60	0.70
2007/4/29	4.52	3.76	5.19	0.68	0.60	0.70
2007/4/30	4.55	3.62	6.24	0.67	0.60	1.20
<i>Monthly</i>	4.25	1.99	9.14	0.68	0.50	3.50

Table 3-5 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, May 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/5/1	4.62	3.91	5.31	0.68	0.60	0.70
2007/5/2	4.76	2.29	7.50	0.86	0.50	6.40
2007/5/3	4.95	3.16	8.24	0.81	0.60	3.20
2007/5/4	4.77	4.04	5.37	0.70	0.60	0.80
2007/5/5	4.78	4.08	5.40	0.69	0.60	0.70
2007/5/6	4.82	4.13	5.41	0.68	0.60	0.70
2007/5/7	4.89	4.06	5.59	0.70	0.60	0.80
2007/5/8	4.96	4.18	5.61	0.70	0.60	0.70
2007/5/9	4.96	4.15	5.74	0.69	0.60	0.70
2007/5/10	4.97	3.60	8.16	0.71	0.60	2.20
2007/5/11	4.94	4.24	5.58	0.70	0.60	0.70
2007/5/12	4.93	4.10	5.68	0.69	0.60	0.70
2007/5/13	4.86	4.12	5.48	0.69	0.60	0.70
2007/5/14	4.89	4.15	5.52	0.69	0.60	0.70
2007/5/15	4.92	4.15	5.47	0.70	0.60	0.70
2007/5/16	4.91	4.21	5.56	0.69	0.60	0.70
2007/5/17	4.97	4.26	5.51	0.70	0.60	0.70
2007/5/18	4.88	4.22	5.49	0.69	0.60	0.70
2007/5/19	4.83	4.10	5.49	0.70	0.60	0.70
2007/5/20	4.91	4.15	5.53	0.69	0.60	0.70
2007/5/21	4.86	4.15	5.54	0.70	0.60	0.70
2007/5/22	4.85	4.18	5.42	0.69	0.60	0.70
2007/5/23	4.88	4.25	5.42	0.69	0.60	0.70
2007/5/24	4.69	4.22	5.30	0.70	0.60	0.70
2007/5/25	4.63	4.20	5.03	0.68	0.60	0.70
2007/5/26	4.61	4.15	5.04	0.68	0.60	0.70
2007/5/27	4.85	2.76	8.78	0.84	0.60	3.20
2007/5/28	4.80	2.83	7.49	0.72	0.60	1.70
2007/5/29	4.46	3.81	4.98	0.69	0.60	0.70
2007/5/30	4.61	3.80	7.04	0.71	0.60	1.50
2007/5/31	4.61	3.72	7.95	0.70	0.60	2.90
<i>Monthly</i>	4.82	2.29	8.78	0.71	0.50	6.40

Table 3-6 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, June 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/6/1	4.60	3.98	5.14	0.67	0.60	0.70
2007/6/2	4.50	3.96	4.99	0.66	0.60	0.70
2007/6/3	4.63	3.42	6.95	0.72	0.60	1.50
2007/6/4	4.40	3.53	5.52	0.68	0.60	0.80
2007/6/5	4.29	3.74	4.75	0.67	0.60	0.70
2007/6/6	4.32	3.83	4.77	0.69	0.60	0.70
2007/6/7	4.30	3.86	4.80	0.68	0.60	0.80
2007/6/8	4.28	3.76	4.78	0.68	0.60	0.80
2007/6/9	4.25	3.83	4.83	0.69	0.60	0.70
2007/6/10	4.26	3.80	4.67	0.68	0.60	0.70
2007/6/11	4.39	2.76	7.47	0.72	0.50	2.50
2007/6/12	4.18	3.40	5.95	0.68	0.60	1.30
2007/6/13	4.11	3.68	4.50	0.68	0.60	0.70
2007/6/14	4.13	2.94	6.45	0.70	0.60	1.70
2007/6/15	4.04	3.24	5.90	0.68	0.60	1.10
2007/6/16	3.85	3.45	4.34	0.69	0.60	0.70
2007/6/17	3.86	3.46	4.31	0.69	0.60	0.70
2007/6/18	3.81	3.37	4.20	0.70	0.60	0.70
2007/6/19	3.96	2.25	6.77	0.78	0.60	2.20
2007/6/20	4.02	2.55	8.92	0.75	0.60	2.10
2007/6/21	3.63	2.76	4.77	0.70	0.60	0.90
2007/6/22	3.57	3.19	3.94	0.69	0.60	0.70
2007/6/23	3.57	3.20	3.90	0.69	0.60	0.80
2007/6/24	3.50	3.13	3.82	0.69	0.60	0.70
2007/6/25	3.49	2.97	4.02	0.69	0.60	0.80
2007/6/26	3.56	2.53	4.89	0.69	0.60	1.10
2007/6/27	3.52	2.99	4.23	0.68	0.60	0.80
2007/6/28	3.51	3.18	3.87	0.67	0.60	0.70
2007/6/29	3.49	3.12	3.97	0.69	0.60	0.70
2007/6/30	3.45	3.08	3.78	0.69	0.60	0.70
<i>Monthly</i>	3.98	2.25	8.92	0.69	0.50	2.50

Table 3-7 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, July 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	3.40	3.06	3.76	0.69	0.60	0.70
2007/7/2	3.44	3.06	3.83	0.68	0.60	0.70
2007/7/3	3.46	3.12	3.84	0.67	0.60	0.70
2007/7/4	3.48	3.13	3.82	0.68	0.60	0.70
2007/7/5	3.46	3.05	3.97	0.67	0.60	0.90
2007/7/6	3.45	2.89	4.31	0.67	0.60	0.80
2007/7/7	3.44	2.79	4.38	0.67	0.60	1.00
2007/7/8	3.47	2.79	3.94	0.68	0.60	0.90
2007/7/9	3.43	2.81	4.14	0.66	0.60	1.00
2007/7/10	3.46	3.08	3.84	0.64	0.60	0.80
2007/7/11	3.47	3.07	3.91	0.66	0.60	0.70
2007/7/12	3.47	3.06	3.83	0.65	0.60	0.70
2007/7/13	3.49	3.06	3.86	0.64	0.60	0.70
2007/7/14	3.52	2.98	3.94	0.67	0.60	0.70
2007/7/15	3.50	3.02	3.88	0.66	0.60	0.70
2007/7/16	3.42	3.07	3.89	0.67	0.60	0.80
2007/7/17	3.25	2.92	3.59	0.66	0.60	0.70
2007/7/18	3.31	2.86	3.65	0.67	0.60	0.70
2007/7/19	3.36	2.95	3.72	0.67	0.60	0.70
2007/7/20	3.33	2.42	4.61	0.68	0.60	1.20
2007/7/21	3.28	2.83	3.60	0.67	0.60	0.70
2007/7/22	3.59	2.09	7.48	1.05	0.50	9.00
2007/7/23	3.51	1.88	6.98	0.86	0.50	5.20
2007/7/24	3.43	2.17	6.52	0.77	0.50	2.30
2007/7/25	3.40	2.17	6.30	0.74	0.50	2.80
2007/7/26	3.28	2.24	5.75	0.75	0.50	7.20
2007/7/27	3.06	2.51	3.50	0.62	0.60	0.70
2007/7/28	3.01	2.63	3.38	0.61	0.60	0.70
2007/7/29	3.00	2.60	3.32	0.62	0.60	0.70
2007/7/30	2.96	2.43	3.34	0.61	0.60	0.70
2007/7/31	2.94	2.39	3.32	0.62	0.60	0.80
<i>Monthly</i>	3.36	1.88	7.48	0.69	0.50	9.00

Table 3-8 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, August 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	2.92	2.41	3.39	0.61	0.60	0.70
2007/8/2	3.06	2.43	3.46	0.60	0.60	0.70
2007/8/3	3.02	2.37	3.44	0.60	0.60	0.70
2007/8/4	3.09	2.37	3.62	0.60	0.60	0.70
2007/8/5	3.42	2.30	6.37	0.70	0.50	2.50
2007/8/6	3.64	2.14	7.34	1.00	0.50	10.80
2007/8/7	3.24	2.62	3.67	0.60	0.60	0.70
2007/8/8	3.15	2.47	3.62	0.60	0.60	0.70
2007/8/9	3.00	2.38	3.66	0.61	0.60	0.90
2007/8/10	3.00	2.42	3.49	0.60	0.60	0.70
2007/8/11	3.21	2.71	3.60	0.60	0.60	0.70
2007/8/12	3.38	2.82	3.76	0.60	0.60	0.70
2007/8/13	3.47	2.85	4.47	0.60	0.50	0.80
2007/8/14	3.36	2.19	4.36	0.61	0.50	0.70
2007/8/15	3.25	2.60	3.76	0.60	0.50	0.60
2007/8/16	3.19	2.03	5.00	0.64	0.50	2.10
2007/8/17	3.32	2.86	3.98	0.60	0.50	0.80
2007/8/18	3.44	2.56	6.47	0.67	0.40	3.80
2007/8/19	3.25	2.52	3.94	0.60	0.50	0.70
2007/8/20	3.03	2.29	3.66	0.60	0.50	0.70
2007/8/21	3.23	2.74	3.81	0.60	0.50	0.60
2007/8/22	3.87	3.16	4.69	0.61	0.60	0.80
2007/8/23	3.79	3.07	4.41	0.60	0.50	0.70
2007/8/24	3.77	2.97	4.41	0.60	0.60	0.70
2007/8/25	3.68	3.01	4.25	0.60	0.50	0.60
2007/8/26	3.68	2.89	4.47	0.60	0.50	0.60
2007/8/27	3.56	2.87	4.21	0.60	0.50	0.70
2007/8/28	3.46	2.73	4.18	0.60	0.60	0.60
2007/8/29	3.40	2.73	3.96	0.60	0.50	0.70
2007/8/30	3.39	2.77	3.88	0.60	0.50	0.60
2007/8/31	3.39	2.90	3.98	0.60	0.50	0.70
<i>Monthly</i>	3.34	2.03	7.34	0.62	0.40	10.80

Table 3-9 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, September 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/9/1	3.34	2.85	3.80	0.60	0.50	0.60
2007/9/2	3.41	2.85	3.98	0.60	0.50	0.70
2007/9/3	3.40	2.76	3.98	0.60	0.60	0.60
2007/9/4	3.36	2.69	3.96	0.63	0.50	0.80
2007/9/5	3.29	2.63	4.03	0.61	0.50	0.90
2007/9/6	3.28	2.67	4.13	0.61	0.50	0.70
2007/9/7	3.73	3.11	4.84	0.76	0.60	1.10
2007/9/8	4.02	2.93	5.12	0.83	0.60	1.10
2007/9/9	3.24	2.55	4.02	0.60	0.50	0.60
2007/9/10	3.18	2.52	3.78	0.60	0.50	0.60
2007/9/11	3.25	2.54	3.85	0.60	0.50	0.60
2007/9/12	3.30	2.65	3.88	0.60	0.50	0.60
2007/9/13	3.48	2.91	4.21	0.60	0.50	0.60
2007/9/14	3.63	2.93	4.24	0.60	0.50	0.60
2007/9/15	3.60	2.94	4.24	0.60	0.50	0.60
2007/9/16	3.58	2.89	4.44	0.60	0.50	0.70
2007/9/17	3.38	2.86	4.02	0.60	0.50	0.60
2007/9/18	3.35	2.89	3.88	0.60	0.50	0.60
2007/9/19	3.32	2.78	3.84	0.60	0.50	0.60
2007/9/20	3.45	2.95	3.97	0.60	0.50	0.60
2007/9/21	3.49	2.81	4.07	0.59	0.50	0.60
2007/9/22	3.46	2.87	4.03	0.60	0.50	0.70
2007/9/23	3.43	2.71	4.01	0.59	0.50	0.60
2007/9/24	3.64	2.62	4.26	0.59	0.50	0.60
2007/9/25	4.58	3.43	5.45	0.60	0.50	0.60
2007/9/26	4.97	4.20	6.06	0.60	0.50	0.60
2007/9/27	4.87	4.12	5.86	0.60	0.50	0.60
2007/9/28	4.75	4.02	5.63	0.60	0.50	0.60
2007/9/29	4.44	3.80	5.39	0.60	0.50	0.60
2007/9/30	4.48	3.94	5.23	0.60	0.60	0.60
<i>Monthly</i>	3.69	2.52	6.06	0.61	0.50	1.10

Table 3-10 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, October 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/10/1	4.46	3.80	5.24	0.60	0.60	0.60
2007/10/2	4.56	4.09	5.38	0.60	0.50	0.80
2007/10/3	4.47	3.76	5.25	0.60	0.50	0.60
2007/10/4	4.62	3.76	5.94	0.60	0.50	0.60
2007/10/5	5.27	4.04	6.22	0.60	0.50	0.60
2007/10/6	5.79	5.03	6.73	0.60	0.60	0.70
2007/10/7	6.16	4.81	7.65	0.61	0.60	0.80
2007/10/8	5.38	3.95	6.92	0.61	0.60	0.80
2007/10/9	4.67	3.41	6.02	0.63	0.60	1.20
2007/10/10	3.90	2.31	5.84	0.60	0.60	0.70
2007/10/11	3.62	1.93	5.31	0.60	0.60	0.70
2007/10/12	3.51	1.82	5.22	0.60	0.50	0.70
2007/10/13	3.47	2.15	4.92	0.60	0.60	0.60
2007/10/14	3.31	1.93	5.14	0.60	0.60	0.70
2007/10/15	4.14	2.93	6.11	1.21	0.50	14.50
2007/10/16	4.42	3.82	5.35	0.95	0.70	1.10
2007/10/17	4.68	3.99	5.53	0.76	0.60	1.10
2007/10/18	4.75	3.94	5.86	0.66	0.60	0.70
2007/10/19	4.06	2.07	6.64	0.71	0.60	1.40
2007/10/20	3.20	1.92	4.69	0.64	0.60	0.80
2007/10/21	3.04	1.98	4.23	0.64	0.60	0.70
2007/10/22	3.94	2.89	5.06	0.85	0.60	2.80
2007/10/23	4.58	3.62	5.90	0.84	0.60	2.30
2007/10/24	4.45	3.43	5.73	0.88	0.70	1.80
2007/10/25	4.23	3.26	5.76	0.75	0.60	1.10
2007/10/26	4.42	3.32	5.94	0.73	0.60	0.90
2007/10/27	4.65	3.72	6.22	0.73	0.60	1.10
2007/10/28	4.65	3.69	6.22	0.74	0.60	1.70
2007/10/29	4.69	3.30	8.84	0.81	0.60	3.90
2007/10/30	6.70	3.84	37.25	4.63	0.60	73.70
2007/10/31	5.79	2.61	9.44	1.42	0.80	14.80
<i>Monthly</i>	4.50	1.82	37.25	0.85	0.50	73.70

Table 3-11 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, November 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/11/1	17.88	4.02	362.61	21.21	0.80	442.90
2007/11/2	3.85	2.01	8.00	1.64	0.60	11.10
2007/11/3	2.71	1.34	4.01	1.88	0.80	4.00
2007/11/4	5.62	2.24	9.22	3.42	0.90	7.20
2007/11/5	13.80	3.10	82.92	20.16	1.40	94.90
2007/11/6	19.47	1.56	255.63	23.27	0.40	281.50
2007/11/7	1.72	1.10	2.68	0.40	0.30	0.50
2007/11/8	1.70	1.16	2.49	0.40	0.30	0.40
2007/11/9	1.78	1.30	2.55	0.40	0.30	0.50
2007/11/10	1.75	1.26	2.30	0.40	0.30	0.50
2007/11/11	1.94	1.42	3.01	0.41	0.40	0.50
2007/11/12	1.90	1.41	2.66	0.42	0.40	0.50
2007/11/13	1.86	1.16	2.47	0.43	0.40	0.50
2007/11/14	1.81	0.96	2.47	0.46	0.30	0.50
2007/11/15	1.87	1.48	2.65	0.47	0.40	0.60
2007/11/16	2.11	0.88	3.05	0.53	0.30	0.90
2007/11/17	2.09	1.58	2.73	0.53	0.50	1.10
2007/11/18	2.19	1.50	2.80	0.54	0.50	0.70
2007/11/19	2.18	1.37	3.40	0.54	0.40	0.70
2007/11/20	2.18	1.28	2.87	0.57	0.50	0.70
2007/11/21	1.95	0.81	2.68	0.54	0.40	0.60
2007/11/22	1.89	0.99	2.68	0.53	0.30	0.70
2007/11/23	1.80	1.32	2.54	0.51	0.40	0.60
2007/11/24	1.53	0.81	2.33	0.47	0.40	0.60
2007/11/25	1.54	0.80	2.61	0.46	0.40	0.60
2007/11/26	1.60	0.86	2.47	0.47	0.40	0.60
2007/11/27	1.62	0.99	2.26	0.53	0.40	0.90
2007/11/28	1.27	0.74	2.95	0.44	0.30	0.70
2007/11/29	1.28	0.61	3.54	0.44	0.30	0.60
2007/11/30	1.51	0.84	5.35	0.58	0.40	3.00
<i>Monthly</i>	3.55	0.61	362.61	2.77	0.30	442.90

Table 3-12 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, December 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/12/1	2.10	0.71	17.06	0.76	0.30	5.70
2007/12/2	1.89	0.98	3.56	0.56	0.40	1.50
2007/12/3	1.55	0.66	6.44	0.53	0.40	1.90
2007/12/4	1.58	0.66	3.45	0.50	0.40	1.70
2007/12/5	1.71	0.99	5.54	0.60	0.40	3.30
2007/12/6	1.85	1.12	2.92	0.53	0.40	1.10
2007/12/7	1.18	0.78	2.05	0.49	0.40	2.30
2007/12/8	2.07	0.88	6.06	1.01	0.40	2.80
2007/12/9	2.08	0.94	11.34	1.16	0.50	7.70
2007/12/10	1.90	1.06	3.84	0.85	0.60	2.60
2007/12/11	1.96	0.94	3.30	1.36	0.60	4.10
2007/12/12	2.14	0.87	4.43	2.13	0.80	5.70
2007/12/13	2.13	0.98	4.19	2.44	0.60	9.10
2007/12/14	2.14	0.93	4.83	1.76	0.70	6.10
2007/12/15	1.56	0.64	3.76	1.03	0.70	2.90
2007/12/16	2.94	1.02	8.36	3.15	0.80	12.10
2007/12/17	2.13	0.88	4.34	1.74	0.80	5.20
2007/12/18	2.05	1.10	3.22	1.31	1.00	3.10
2007/12/19	2.32	0.86	3.88	1.85	0.70	6.80
2007/12/20	3.04	0.90	28.61	3.95	0.80	61.60
2007/12/21	2.91	1.00	6.99	3.29	0.90	23.50
2007/12/22	2.14	0.98	5.54	1.86	0.90	6.00
2007/12/23	2.81	1.58	7.31	2.14	0.90	6.50
2007/12/24	3.56	2.07	8.52	2.66	1.00	7.80
2007/12/25	4.83	1.86	11.24	4.50	0.90	12.60
2007/12/26	5.82	1.10	16.37	6.63	0.80	35.20
2007/12/27	3.64	1.31	8.91	3.61	0.90	8.30
2007/12/28	2.44	1.12	3.29	1.32	0.80	2.00
2007/12/29	3.82	1.91	9.68	4.24	1.00	12.90
2007/12/30	2.90	1.14	5.59	2.98	0.90	9.20
2007/12/31	2.23	1.08	5.84	2.19	1.00	6.90
<i>Monthly</i>	2.50	0.64	28.61	2.04	0.30	61.60

Table 3-13 Chlorophyll a fluorescence and turbidity data at 2.5 m depth in Oyako Ike, January 2008

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	3.17	0.76	7.90	3.50	0.70	16.30
2008/1/2	5.70	1.71	20.92	6.43	0.90	24.60
2008/1/3	7.28	1.59	66.07	7.51	0.90	50.70
2008/1/4	6.31	2.32	18.72	7.40	1.10	22.30
2008/1/5	3.85	0.59	9.53	5.03	0.70	23.90
2008/1/6	4.02	0.97	28.30	3.17	0.70	32.40
2008/1/7	4.97	0.37	160.80	4.89	0.60	126.90
2008/1/8	2.96	0.38	149.38	2.24	0.80	113.20
2008/1/9	0.74	0.34	6.80	0.93	0.80	5.80
2008/1/10	1.23	0.81	2.15	0.96	0.80	1.10
2008/1/11	1.29	0.33	11.35	1.15	0.70	19.90
2008/1/12	0.76	0.35	1.82	0.81	0.70	1.00
2008/1/13	0.52	0.29	0.95	0.76	0.70	0.90
2008/1/14	0.54	0.30	0.98	0.75	0.60	0.90
2008/1/15	0.68	0.35	1.50	0.79	0.60	1.00
2008/1/16	0.59	0.34	1.19	0.72	0.60	1.00
2008/1/17	0.59	0.35	1.02	0.72	0.60	1.00
2008/1/18	0.63	0.35	1.05	0.68	0.60	0.90
2008/1/19	0.73	0.51	0.98	0.62	0.60	0.80
<i>Monthly</i>	2.45	0.29	160.80	2.58	0.60	126.90

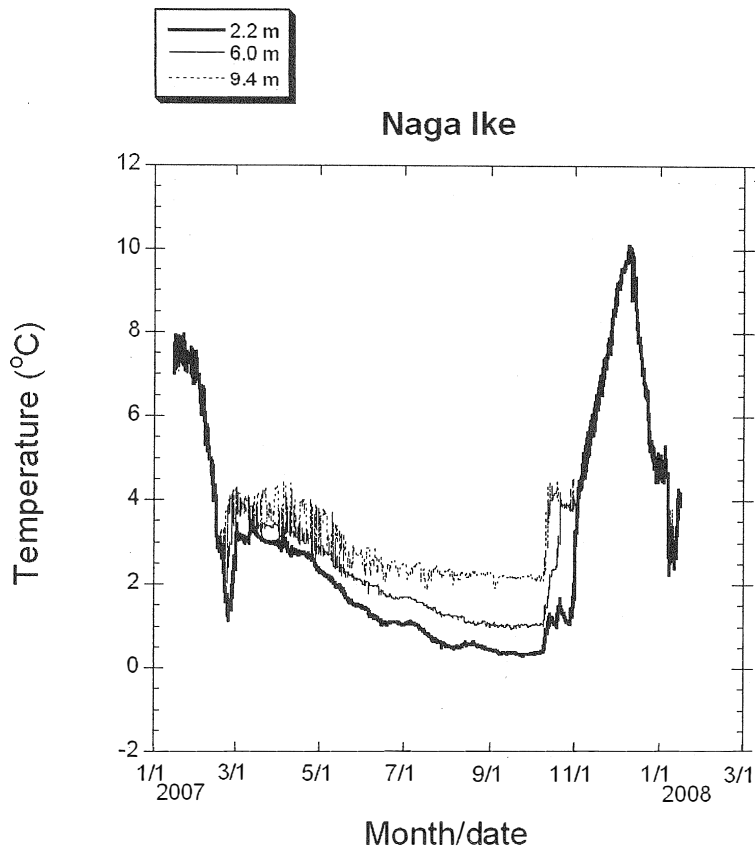


Fig. 7. Seasonal changes of water temperature at three depths in Naga Ike (2007-2008). 30-minute interval data.

Table 4-1 Water temperature data (°C) at 3 depths in Naga Ike, January 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/15	7.332	7.005	7.718	7.325	7.029	7.670	7.318	7.022	7.662
2007/1/16	7.474	7.120	7.923	7.415	7.097	7.718	7.387	7.058	7.702
2007/1/17	7.412	7.146	7.881	7.390	7.143	7.728	7.362	7.141	7.678
2007/1/18	7.442	7.193	7.893	7.391	7.152	7.680	7.349	7.049	7.612
2007/1/19	7.564	7.468	7.859	7.543	7.457	7.648	7.500	7.387	7.611
2007/1/20	7.546	7.318	7.886	7.480	7.264	7.744	7.444	7.245	7.616
2007/1/21	7.533	7.240	7.834	7.495	7.247	7.668	7.470	7.166	7.676
2007/1/22	7.503	7.240	7.941	7.438	7.242	7.661	7.391	7.159	7.660
2007/1/23	7.348	7.091	7.752	7.315	7.088	7.598	7.291	7.079	7.572
2007/1/24	7.305	7.068	7.528	7.266	7.063	7.453	7.239	7.013	7.402
2007/1/25	7.377	7.276	7.479	7.369	7.237	7.463	7.338	7.168	7.468
2007/1/26	7.379	7.297	7.480	7.367	7.274	7.456	7.345	7.210	7.446
2007/1/27	7.274	7.007	7.618	7.217	7.011	7.415	7.186	6.981	7.402
2007/1/28	7.247	6.937	7.585	7.197	6.919	7.444	7.164	6.899	7.350
2007/1/29	7.107	6.778	7.468	7.059	6.778	7.457	7.028	6.776	7.436
2007/1/30	7.051	6.812	7.388	7.004	6.790	7.180	6.979	6.752	7.158
2007/1/31	7.144	6.863	7.526	7.072	6.870	7.302	7.032	6.824	7.227
Monthly	7.355	6.778	7.941	7.314	6.778	7.744	7.284	6.752	7.702

Table 4-2 Water temperature data (°C) at 3 depths in Naga Ike, February 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	7.099	6.975	7.340	7.094	7.007	7.263	7.054	6.901	7.184
2007/2/2	6.800	6.668	6.992	6.792	6.656	6.999	6.755	6.584	6.995
2007/2/3	6.433	6.325	6.659	6.434	6.317	6.665	6.421	6.288	6.655
2007/2/4	6.321	6.025	6.719	6.257	5.999	6.495	6.228	5.959	6.439
2007/2/5	6.386	6.125	6.700	6.321	6.111	6.514	6.293	6.087	6.452
2007/2/6	6.119	5.870	6.611	6.099	5.859	6.465	6.076	5.859	6.431
2007/2/7	5.599	5.313	6.066	5.604	5.321	6.087	5.592	5.312	6.084
2007/2/8	5.379	5.163	5.781	5.330	5.183	5.594	5.305	5.176	5.499
2007/2/9	5.351	5.240	5.663	5.341	5.244	5.517	5.313	5.184	5.476
2007/2/10	5.076	4.967	5.262	5.072	4.987	5.263	5.049	4.960	5.257
2007/2/11	4.760	4.595	4.991	4.766	4.630	4.987	4.736	4.577	4.979
2007/2/12	4.554	4.368	4.923	4.531	4.367	4.743	4.501	4.364	4.669
2007/2/13	4.299	3.979	4.808	4.294	4.027	4.692	4.282	3.993	4.641
2007/2/14	4.156	4.046	4.336	4.158	4.044	4.355	4.152	4.013	4.370
2007/2/15	3.480	3.141	4.091	3.493	3.147	4.096	3.498	3.141	4.093
2007/2/16	2.981	2.871	3.134	2.997	2.882	3.142	3.010	2.883	3.152
2007/2/17	2.883	2.770	2.997	2.922	2.767	3.036	3.009	2.820	3.131
2007/2/18	2.899	2.809	2.972	2.944	2.879	3.020	3.073	2.907	3.239
2007/2/19	2.772	2.626	2.930	2.805	2.663	2.975	2.902	2.722	3.274
2007/2/20	2.462	2.261	2.725	2.557	2.334	2.787	2.814	2.496	3.297
2007/2/21	2.099	1.834	2.314	2.334	2.116	2.560	2.769	2.450	3.366
2007/2/22	1.735	1.577	1.934	2.221	1.883	2.528	2.933	2.592	3.721
2007/2/23	1.498	1.261	1.752	2.404	2.018	2.706	3.512	2.753	3.860
2007/2/24	1.436	1.148	1.589	2.684	2.387	2.902	3.808	3.655	4.004
2007/2/25	1.555	1.517	1.622	2.859	2.677	2.981	3.785	3.667	4.100
2007/2/26	1.632	1.395	1.973	3.151	2.938	3.795	3.749	3.516	4.121
2007/2/27	1.921	1.694	2.307	3.933	3.660	4.236	3.712	3.453	4.033
2007/2/28	2.270	2.049	2.668	3.674	3.377	3.919	3.831	3.573	4.226
<i>Monthly</i>	3.927	1.148	7.340	4.252	1.883	7.263	4.434	2.450	7.184

Table 4-3 Water temperature data (°C) at 3 depths in Naga Ike, March 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	2.644	2.353	3.217	3.533	3.285	3.826	3.997	3.719	4.333
2007/3/2	3.202	3.118	3.444	3.917	3.658	4.095	4.002	3.766	4.311
2007/3/3	3.106	3.044	3.224	3.876	3.666	4.177	3.957	3.676	4.161
2007/3/4	3.136	3.085	3.196	3.778	3.603	4.012	3.892	3.744	4.144
2007/3/5	3.110	3.060	3.148	3.886	3.629	4.032	3.889	3.755	3.997
2007/3/6	3.122	3.077	3.167	3.865	3.790	3.913	3.898	3.841	3.985
2007/3/7	3.054	2.999	3.127	3.950	3.883	4.016	3.802	3.593	3.906
2007/3/8	3.009	2.972	3.055	4.033	4.001	4.066	3.813	3.740	3.877
2007/3/9	3.081	3.056	3.116	4.005	3.965	4.030	3.788	3.682	3.872
2007/3/10	3.060	3.013	3.117	4.012	3.933	4.095	3.747	3.517	3.909
2007/3/11	3.066	2.957	3.217	3.916	3.697	4.051	3.634	3.381	3.824
2007/3/12	3.311	3.192	3.405	3.629	3.573	3.847	3.562	3.339	3.800
2007/3/13	3.355	3.242	3.497	3.713	3.457	3.846	3.475	3.322	3.765
2007/3/14	3.391	3.341	3.454	3.359	3.293	3.463	3.694	3.427	3.945
2007/3/15	3.303	3.243	3.341	3.231	3.163	3.289	3.615	3.457	4.086
2007/3/16	3.207	3.162	3.253	3.391	3.224	3.778	3.682	3.420	3.899
2007/3/17	3.150	3.130	3.182	3.422	3.305	3.782	3.839	3.557	4.098
2007/3/18	3.112	3.102	3.132	3.377	3.302	3.454	4.111	4.085	4.147
2007/3/19	3.102	3.082	3.115	3.308	3.235	3.402	3.757	3.414	4.112
2007/3/20	3.077	3.045	3.113	3.273	3.157	3.410	3.821	3.457	4.116
2007/3/21	3.048	3.033	3.084	3.400	3.345	3.468	4.145	4.059	4.237
2007/3/22	3.025	3.008	3.044	3.392	3.320	3.447	4.193	4.150	4.219
2007/3/23	3.001	2.992	3.019	3.384	3.368	3.400	4.106	3.943	4.262
2007/3/24	3.006	2.993	3.019	3.388	3.379	3.395	3.721	3.482	3.930
2007/3/25	2.998	2.983	3.009	3.384	3.376	3.394	3.694	3.590	3.963
2007/3/26	2.983	2.969	2.991	3.373	3.367	3.378	3.742	3.666	3.912
2007/3/27	2.978	2.972	2.984	3.354	3.330	3.373	3.571	3.484	3.772
2007/3/28	2.981	2.966	3.003	3.369	3.330	3.419	3.635	3.492	3.827
2007/3/29	2.984	2.962	3.020	3.423	3.402	3.452	3.818	3.602	4.041
2007/3/30	2.966	2.942	3.014	3.422	3.407	3.454	4.173	4.053	4.274
2007/3/31	2.959	2.944	2.986	3.401	3.375	3.415	4.281	4.261	4.311
<i>Monthly</i>	3.081	2.353	3.497	3.573	3.157	4.177	3.840	3.322	4.333

Table 4-4 Water temperature data (°C) at 3 depths in Naga Ike, April 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	2.949	2.914	3.046	3.344	3.267	3.391	3.856	3.437	4.264
2007/4/2	2.913	2.862	3.009	3.206	3.104	3.293	3.453	3.076	3.755
2007/4/3	2.867	2.799	2.977	3.103	2.942	3.253	3.600	3.389	3.803
2007/4/4	2.975	2.874	3.324	3.298	3.208	3.469	3.645	3.439	3.882
2007/4/5	2.996	2.931	3.260	3.429	3.327	3.589	3.972	3.499	4.474
2007/4/6	2.948	2.886	3.081	3.325	3.182	3.455	4.062	3.666	4.332
2007/4/7	2.912	2.851	2.974	3.384	3.213	3.524	3.703	3.443	4.043
2007/4/8	2.826	2.772	2.996	3.349	3.227	3.522	3.584	3.242	3.845
2007/4/9	2.772	2.717	2.823	3.262	3.152	3.383	3.462	3.136	3.855
2007/4/10	2.697	2.668	2.745	3.285	3.141	3.383	3.721	3.367	4.397
2007/4/11	2.736	2.679	2.884	3.263	3.207	3.318	3.955	3.315	4.271
2007/4/12	2.765	2.730	2.850	3.171	3.109	3.247	3.518	3.210	3.850
2007/4/13	2.745	2.728	2.770	3.165	3.129	3.236	3.512	3.223	4.007
2007/4/14	2.742	2.716	2.805	3.226	3.171	3.288	3.441	3.120	3.624
2007/4/15	2.725	2.703	2.777	3.273	3.212	3.355	3.187	3.042	3.367
2007/4/16	2.723	2.700	2.785	3.271	3.228	3.347	3.108	2.956	3.553
2007/4/17	2.725	2.714	2.742	3.200	3.035	3.410	3.364	2.894	3.958
2007/4/18	2.747	2.727	2.772	3.154	3.040	3.343	3.948	3.848	4.052
2007/4/19	2.738	2.714	2.756	3.131	3.014	3.199	3.988	3.951	4.012
2007/4/20	2.741	2.719	2.758	3.074	2.960	3.225	3.845	3.680	4.002
2007/4/21	2.709	2.678	2.728	3.111	2.972	3.235	3.387	3.098	3.909
2007/4/22	2.663	2.644	2.689	3.183	3.036	3.243	3.133	3.048	3.345
2007/4/23	2.651	2.623	2.737	3.097	3.002	3.176	3.078	2.895	3.208
2007/4/24	2.636	2.609	2.688	3.112	3.081	3.172	3.731	3.156	4.015
2007/4/25	2.605	2.574	2.644	2.884	2.593	3.095	3.559	2.937	3.905
2007/4/26	2.587	2.559	2.688	3.028	2.645	3.366	3.509	2.767	3.848
2007/4/27	2.532	2.446	2.603	2.962	2.828	3.137	3.322	2.791	3.645
2007/4/28	2.451	2.423	2.486	2.806	2.622	2.975	3.489	2.845	3.872
2007/4/29	2.410	2.346	2.457	2.898	2.731	3.083	3.428	2.724	3.820
2007/4/30	2.369	2.316	2.401	2.832	2.714	2.898	3.420	2.806	3.802
<i>Monthly</i>	2.728	2.316	3.324	3.161	2.593	3.589	3.566	2.724	4.474

Table 4-5 Water temperature data (°C) at 3 depths in Naga Ike, May 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	2.312	2.264	2.340	2.834	2.766	2.887	3.484	3.110	3.709
2007/5/2	2.299	2.285	2.320	2.844	2.703	2.930	3.225	2.788	3.644
2007/5/3	2.276	2.245	2.306	2.814	2.668	2.915	3.643	3.464	3.803
2007/5/4	2.253	2.224	2.284	2.783	2.693	2.853	3.709	3.652	3.777
2007/5/5	2.226	2.206	2.259	2.759	2.696	2.790	3.691	3.660	3.725
2007/5/6	2.212	2.186	2.230	2.747	2.713	2.779	3.135	2.870	3.683
2007/5/7	2.189	2.171	2.205	2.719	2.692	2.740	3.106	2.979	3.189
2007/5/8	2.163	2.130	2.186	2.700	2.686	2.722	2.899	2.719	3.128
2007/5/9	2.126	2.078	2.164	2.716	2.659	2.730	2.756	2.564	3.260
2007/5/10	2.114	2.079	2.151	2.679	2.536	2.748	3.410	2.888	3.762
2007/5/11	2.069	2.033	2.099	2.528	2.423	2.718	3.115	2.582	3.448
2007/5/12	2.011	1.953	2.054	2.525	2.383	2.799	2.924	2.578	3.449
2007/5/13	1.945	1.922	1.973	2.530	2.393	2.633	3.267	3.073	3.385
2007/5/14	1.954	1.922	1.981	2.489	2.391	2.661	3.090	2.954	3.412
2007/5/15	1.975	1.954	2.006	2.448	2.305	2.570	2.977	2.548	3.254
2007/5/16	1.933	1.884	1.988	2.393	2.306	2.478	2.884	2.752	3.182
2007/5/17	1.885	1.841	1.935	2.400	2.208	2.481	2.986	2.810	3.237
2007/5/18	1.826	1.790	1.898	2.377	2.264	2.464	2.836	2.547	3.179
2007/5/19	1.766	1.724	1.839	2.327	2.248	2.367	2.839	2.789	2.939
2007/5/20	1.724	1.678	1.781	2.242	2.168	2.302	2.909	2.660	3.007
2007/5/21	1.656	1.631	1.678	2.275	2.185	2.300	2.509	2.427	2.645
2007/5/22	1.619	1.584	1.645	2.264	2.213	2.295	2.701	2.633	2.766
2007/5/23	1.574	1.546	1.606	2.213	2.206	2.223	2.501	2.397	2.608
2007/5/24	1.591	1.553	1.635	2.218	2.185	2.245	2.496	2.403	2.566
2007/5/25	1.544	1.527	1.568	2.205	2.178	2.249	2.702	2.466	2.910
2007/5/26	1.523	1.504	1.541	2.173	2.102	2.210	2.811	2.744	2.857
2007/5/27	1.514	1.494	1.535	2.120	2.099	2.144	2.717	2.707	2.740
2007/5/28	1.517	1.484	1.528	2.126	2.108	2.146	2.701	2.690	2.707
2007/5/29	1.518	1.505	1.527	2.129	2.118	2.135	2.682	2.668	2.703
2007/5/30	1.506	1.489	1.520	2.106	2.094	2.118	2.712	2.694	2.732
2007/5/31	1.479	1.462	1.499	2.091	2.080	2.098	2.775	2.730	2.816
<i>Monthly</i>	1.881	1.462	2.340	2.444	2.080	2.930	2.974	2.397	3.803

Table 4-6 Water temperature data (°C) at 3 depths in Naga Ike, June 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	1.464	1.446	1.484	2.045	2.011	2.077	2.524	2.417	2.757
2007/6/2	1.450	1.440	1.461	2.019	1.975	2.090	2.393	2.317	2.605
2007/6/3	1.434	1.416	1.452	2.039	1.980	2.078	2.293	2.217	2.542
2007/6/4	1.412	1.400	1.430	2.073	2.052	2.085	2.729	2.446	2.863
2007/6/5	1.378	1.315	1.414	1.894	1.791	2.062	2.875	2.823	2.894
2007/6/6	1.292	1.243	1.350	1.995	1.974	2.029	2.664	2.318	2.822
2007/6/7	1.266	1.242	1.282	1.978	1.972	1.986	2.333	2.222	2.573
2007/6/8	1.252	1.234	1.275	1.972	1.965	1.978	2.594	2.566	2.613
2007/6/9	1.220	1.199	1.237	1.963	1.957	1.973	2.525	2.444	2.593
2007/6/10	1.236	1.220	1.252	1.974	1.967	1.978	2.736	2.568	2.887
2007/6/11	1.218	1.195	1.237	1.970	1.964	1.982	2.422	2.284	2.637
2007/6/12	1.188	1.160	1.211	1.993	1.954	2.012	2.360	2.309	2.511
2007/6/13	1.151	1.127	1.167	1.850	1.765	1.953	2.634	2.528	2.655
2007/6/14	1.088	1.044	1.172	1.829	1.759	1.875	2.549	2.450	2.648
2007/6/15	1.070	1.047	1.090	1.849	1.836	1.854	2.403	2.334	2.493
2007/6/16	1.095	1.074	1.116	1.816	1.786	1.849	2.289	2.121	2.486
2007/6/17	1.085	1.071	1.101	1.755	1.733	1.784	2.170	2.079	2.285
2007/6/18	1.050	1.032	1.071	1.728	1.708	1.745	2.221	2.158	2.333
2007/6/19	1.069	1.050	1.091	1.711	1.707	1.727	2.420	2.340	2.467
2007/6/20	1.094	1.078	1.114	1.727	1.703	1.778	2.369	2.333	2.461
2007/6/21	1.110	1.097	1.117	1.754	1.735	1.775	2.487	2.400	2.527
2007/6/22	1.112	1.107	1.120	1.713	1.691	1.734	2.534	2.527	2.543
2007/6/23	1.119	1.113	1.123	1.685	1.666	1.691	2.563	2.543	2.575
2007/6/24	1.119	1.114	1.124	1.653	1.651	1.663	2.532	2.471	2.574
2007/6/25	1.109	1.101	1.119	1.677	1.654	1.699	2.426	2.391	2.467
2007/6/26	1.100	1.094	1.108	1.672	1.655	1.691	2.320	2.206	2.394
2007/6/27	1.086	1.074	1.101	1.656	1.651	1.669	2.220	2.188	2.282
2007/6/28	1.069	1.062	1.077	1.699	1.671	1.713	2.346	2.285	2.397
2007/6/29	1.056	1.048	1.065	1.704	1.686	1.713	2.437	2.399	2.468
2007/6/30	1.050	1.042	1.057	1.690	1.684	1.700	2.486	2.469	2.498
<i>Monthly</i>	1.181	1.032	1.484	1.836	1.651	2.090	2.462	2.079	2.894

Table 4-7 Water temperature data (°C) at 3 depths in Naga Ike, July 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	1.052	1.038	1.063	1.710	1.700	1.714	2.496	2.483	2.504
2007/7/2	1.065	1.055	1.077	1.714	1.712	1.717	2.456	2.292	2.505
2007/7/3	1.075	1.064	1.093	1.709	1.701	1.716	2.165	2.115	2.276
2007/7/4	1.077	1.055	1.104	1.696	1.691	1.705	2.220	2.191	2.254
2007/7/5	1.107	1.091	1.131	1.690	1.686	1.696	2.276	2.219	2.369
2007/7/6	1.094	1.070	1.113	1.669	1.659	1.686	2.380	2.357	2.400
2007/7/7	1.083	1.066	1.095	1.652	1.645	1.659	2.337	2.253	2.413
2007/7/8	1.077	1.065	1.088	1.645	1.643	1.646	2.423	2.386	2.445
2007/7/9	1.057	1.046	1.068	1.644	1.641	1.647	2.448	2.397	2.488
2007/7/10	1.046	1.034	1.060	1.611	1.591	1.644	2.479	2.420	2.511
2007/7/11	1.015	0.986	1.041	1.588	1.584	1.593	2.503	2.491	2.522
2007/7/12	0.967	0.931	1.001	1.581	1.578	1.585	2.499	2.410	2.527
2007/7/13	0.956	0.929	0.973	1.581	1.574	1.586	2.203	2.086	2.399
2007/7/14	0.923	0.908	0.945	1.565	1.557	1.573	2.318	2.275	2.354
2007/7/15	0.905	0.884	0.932	1.540	1.521	1.565	2.193	2.117	2.378
2007/7/16	0.873	0.849	0.897	1.506	1.497	1.519	2.057	1.875	2.141
2007/7/17	0.837	0.828	0.848	1.505	1.458	1.541	1.978	1.875	2.054
2007/7/18	0.822	0.797	0.844	1.459	1.443	1.473	2.175	1.961	2.315
2007/7/19	0.791	0.765	0.812	1.454	1.446	1.463	2.250	2.121	2.377
2007/7/20	0.755	0.727	0.774	1.427	1.413	1.452	2.230	2.092	2.339
2007/7/21	0.721	0.676	0.745	1.411	1.404	1.417	2.298	2.286	2.315
2007/7/22	0.692	0.657	0.711	1.430	1.395	1.471	2.340	2.298	2.408
2007/7/23	0.697	0.681	0.712	1.437	1.401	1.452	2.389	2.339	2.446
2007/7/24	0.678	0.642	0.691	1.358	1.324	1.397	2.416	2.386	2.449
2007/7/25	0.635	0.610	0.665	1.325	1.313	1.334	2.341	2.302	2.385
2007/7/26	0.644	0.623	0.658	1.339	1.332	1.360	2.275	2.255	2.323
2007/7/27	0.631	0.612	0.647	1.325	1.288	1.368	2.262	2.215	2.270
2007/7/28	0.582	0.506	0.621	1.271	1.245	1.311	2.183	2.113	2.255
2007/7/29	0.608	0.596	0.626	1.268	1.257	1.282	2.267	2.226	2.292
2007/7/30	0.586	0.574	0.603	1.281	1.270	1.289	2.303	2.292	2.325
2007/7/31	0.548	0.517	0.581	1.286	1.277	1.295	2.314	2.302	2.325
<i>Monthly</i>	0.858	0.506	1.131	1.506	1.245	1.717	2.306	1.875	2.527

Table 4-8 Water temperature data (°C) at 3 depths in Naga Ike, August 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	0.529	0.512	0.549	1.291	1.283	1.298	2.328	2.322	2.338
2007/8/2	0.530	0.521	0.541	1.297	1.288	1.306	2.366	2.331	2.399
2007/8/3	0.525	0.517	0.533	1.272	1.257	1.288	2.268	2.177	2.360
2007/8/4	0.510	0.492	0.522	1.248	1.241	1.257	2.265	2.171	2.348
2007/8/5	0.524	0.510	0.534	1.235	1.214	1.257	2.040	1.994	2.177
2007/8/6	0.499	0.479	0.514	1.261	1.252	1.265	2.223	2.060	2.314
2007/8/7	0.517	0.510	0.534	1.255	1.250	1.261	2.178	2.165	2.218
2007/8/8	0.520	0.512	0.541	1.255	1.246	1.267	2.208	2.186	2.246
2007/8/9	0.512	0.501	0.534	1.208	1.158	1.245	2.151	2.118	2.208
2007/8/10	0.517	0.504	0.533	1.236	1.225	1.246	2.215	2.125	2.331
2007/8/11	0.526	0.520	0.538	1.251	1.222	1.268	2.292	2.263	2.333
2007/8/12	0.551	0.534	0.568	1.253	1.239	1.265	2.280	2.268	2.287
2007/8/13	0.575	0.563	0.601	1.191	1.103	1.241	2.249	2.236	2.279
2007/8/14	0.613	0.598	0.636	1.107	1.092	1.113	2.246	2.235	2.258
2007/8/15	0.580	0.552	0.606	1.092	1.084	1.102	2.225	2.163	2.265
2007/8/16	0.594	0.584	0.604	1.124	1.104	1.145	2.180	2.145	2.219
2007/8/17	0.584	0.566	0.606	1.110	1.106	1.114	2.233	2.206	2.262
2007/8/18	0.578	0.562	0.600	1.096	1.088	1.106	2.224	2.202	2.242
2007/8/19	0.588	0.567	0.641	1.090	1.080	1.116	2.269	2.237	2.310
2007/8/20	0.599	0.573	0.652	1.092	1.078	1.129	2.270	2.241	2.290
2007/8/21	0.582	0.563	0.598	1.057	1.049	1.076	2.288	2.276	2.311
2007/8/22	0.556	0.543	0.568	1.059	1.050	1.065	2.241	2.223	2.278
2007/8/23	0.548	0.533	0.561	1.093	1.063	1.104	2.262	2.246	2.279
2007/8/24	0.529	0.525	0.538	1.067	1.054	1.090	2.278	2.275	2.283
2007/8/25	0.543	0.535	0.549	1.097	1.091	1.100	2.275	2.260	2.281
2007/8/26	0.519	0.503	0.550	1.116	1.100	1.129	2.256	2.249	2.262
2007/8/27	0.519	0.506	0.529	1.124	1.110	1.141	2.247	2.238	2.261
2007/8/28	0.496	0.475	0.517	1.122	1.068	1.140	2.235	2.225	2.247
2007/8/29	0.478	0.472	0.484	1.042	1.017	1.068	2.280	2.247	2.301
2007/8/30	0.473	0.468	0.481	1.074	1.044	1.102	2.273	2.260	2.290
2007/8/31	0.470	0.460	0.477	1.040	1.000	1.087	2.272	2.262	2.286
<i>Monthly</i>	0.538	0.460	0.652	1.157	1.000	1.306	2.246	1.994	2.399

Table 4-9 Water temperature data (°C) at 3 depths in Naga Ike, September 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/9/1	0.454	0.442	0.463	1.037	1.001	1.065	2.293	2.275	2.301
2007/9/2	0.443	0.437	0.449	1.055	1.030	1.067	2.260	2.243	2.275
2007/9/3	0.433	0.424	0.443	1.069	1.038	1.094	2.121	2.011	2.243
2007/9/4	0.435	0.431	0.441	1.074	1.025	1.101	1.952	1.935	2.010
2007/9/5	0.434	0.418	0.445	1.037	1.022	1.058	1.983	1.939	2.038
2007/9/6	0.413	0.404	0.421	1.010	0.994	1.033	2.078	2.036	2.133
2007/9/7	0.391	0.376	0.404	0.999	0.991	1.016	2.151	2.137	2.183
2007/9/8	0.368	0.359	0.376	1.035	1.017	1.050	2.223	2.188	2.234
2007/9/9	0.366	0.352	0.386	1.045	1.007	1.060	2.222	2.219	2.224
2007/9/10	0.389	0.380	0.398	1.011	1.005	1.028	2.218	2.209	2.227
2007/9/11	0.385	0.378	0.392	1.017	0.986	1.037	2.206	2.197	2.217
2007/9/12	0.369	0.362	0.379	1.019	0.987	1.045	2.195	2.188	2.203
2007/9/13	0.362	0.352	0.372	1.041	1.016	1.052	2.187	2.170	2.199
2007/9/14	0.381	0.365	0.398	1.047	1.028	1.070	2.176	2.171	2.179
2007/9/15	0.385	0.375	0.391	0.996	0.982	1.027	2.185	2.180	2.188
2007/9/16	0.378	0.370	0.390	0.965	0.940	0.981	2.184	2.178	2.191
2007/9/17	0.382	0.374	0.390	0.953	0.940	0.962	2.179	2.172	2.187
2007/9/18	0.379	0.368	0.391	0.994	0.956	1.033	2.170	2.158	2.185
2007/9/19	0.383	0.375	0.392	1.012	1.005	1.025	2.160	2.154	2.167
2007/9/20	0.371	0.357	0.382	0.992	0.974	1.028	2.164	2.159	2.170
2007/9/21	0.346	0.337	0.356	1.046	1.032	1.055	2.153	2.142	2.167
2007/9/22	0.348	0.342	0.354	1.014	0.996	1.039	2.157	2.154	2.163
2007/9/23	0.332	0.321	0.345	1.027	0.998	1.050	2.162	2.156	2.167
2007/9/24	0.307	0.297	0.319	1.055	1.050	1.061	2.175	2.166	2.186
2007/9/25	0.333	0.301	0.359	1.039	1.033	1.051	2.198	2.188	2.206
2007/9/26	0.351	0.339	0.360	1.060	1.042	1.073	2.210	2.200	2.227
2007/9/27	0.351	0.346	0.359	1.063	1.049	1.072	2.226	2.220	2.234
2007/9/28	0.348	0.339	0.359	1.026	0.997	1.048	2.213	2.190	2.235
2007/9/29	0.344	0.337	0.353	0.998	0.994	1.006	2.185	2.169	2.213
2007/9/30	0.354	0.341	0.368	1.027	1.002	1.049	2.203	2.164	2.236
<i>Monthly</i>	0.377	0.297	0.463	1.025	0.940	1.101	2.173	1.935	2.301

Table 4-10 Water temperature data (°C) at 3 depths in Naga Ike, October 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/10/1	0.367	0.358	0.375	1.045	1.036	1.051	2.159	2.138	2.177
2007/10/2	0.364	0.357	0.371	1.048	1.039	1.056	2.140	2.113	2.158
2007/10/3	0.380	0.358	0.405	1.052	1.045	1.066	2.139	2.122	2.151
2007/10/4	0.384	0.375	0.393	1.079	1.068	1.090	2.117	2.094	2.144
2007/10/5	0.389	0.377	0.398	1.058	1.049	1.074	2.178	2.128	2.195
2007/10/6	0.393	0.384	0.403	1.038	1.029	1.049	2.168	2.118	2.215
2007/10/7	0.396	0.381	0.409	1.076	1.051	1.094	2.122	2.092	2.141
2007/10/8	0.409	0.394	0.430	1.081	1.073	1.094	2.148	2.099	2.235
2007/10/9	0.459	0.403	0.551	1.081	1.022	1.167	2.264	2.105	2.350
2007/10/10	0.592	0.483	0.732	1.287	1.173	1.515	2.357	2.162	2.697
2007/10/11	0.779	0.651	0.942	1.409	1.313	1.534	2.851	2.354	3.784
2007/10/12	0.948	0.831	1.115	1.596	1.464	1.737	3.331	2.864	4.331
2007/10/13	1.061	0.982	1.227	1.801	1.691	1.942	3.700	3.474	3.932
2007/10/14	1.170	1.043	1.322	2.046	1.899	2.260	4.007	3.647	4.438
2007/10/15	1.201	1.171	1.234	2.258	2.188	2.339	4.232	4.005	4.362
2007/10/16	1.164	1.124	1.207	2.355	2.340	2.360	4.114	4.037	4.139
2007/10/17	1.096	1.059	1.123	2.358	2.348	2.367	4.142	4.118	4.174
2007/10/18	1.060	1.030	1.112	2.400	2.363	2.448	4.248	4.182	4.334
2007/10/19	1.135	0.997	1.318	2.577	2.419	2.855	4.312	4.080	4.479
2007/10/20	1.310	1.171	1.483	2.863	2.680	3.173	4.162	4.006	4.300
2007/10/21	1.471	1.355	1.687	3.376	2.968	4.107	4.094	4.015	4.200
2007/10/22	1.458	1.414	1.488	3.929	3.884	4.000	3.933	3.876	4.022
2007/10/23	1.375	1.327	1.416	3.912	3.901	3.925	3.869	3.847	3.886
2007/10/24	1.285	1.238	1.325	3.912	3.907	3.917	3.881	3.835	3.928
2007/10/25	1.198	1.163	1.237	3.906	3.893	3.911	3.909	3.864	3.955
2007/10/26	1.136	1.114	1.162	3.893	3.874	3.917	3.890	3.827	3.957
2007/10/27	1.093	1.078	1.116	3.884	3.846	3.913	3.913	3.894	3.953
2007/10/28	1.079	1.056	1.127	3.814	3.788	3.845	3.915	3.894	3.951
2007/10/29	1.199	1.075	1.428	3.824	3.752	3.986	3.970	3.863	4.280
2007/10/30	1.452	1.232	1.716	3.856	3.749	3.999	4.126	3.846	4.501
2007/10/31	1.722	1.495	2.018	3.964	3.809	4.134	4.336	3.983	4.552
<i>Monthly</i>	0.952	0.357	2.018	2.412	1.022	4.134	3.378	2.092	4.552

Table 4-11 Water temperature data (°C) at 3 depths in Naga Ike, November 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/11/1	1.896	1.652	3.265	3.959	3.908	4.021	3.938	3.891	3.989
2007/11/2	3.675	3.234	3.917	3.910	3.855	3.990	3.884	3.838	3.944
2007/11/3	3.976	3.636	4.298	3.980	3.835	4.160	3.952	3.834	4.121
2007/11/4	4.227	4.072	4.473	4.174	4.014	4.389	4.140	4.016	4.302
2007/11/5	4.400	4.264	4.565	4.364	4.232	4.530	4.349	4.195	4.516
2007/11/6	4.584	4.316	4.876	4.565	4.452	4.760	4.557	4.441	4.716
2007/11/7	4.823	4.527	5.143	4.840	4.689	5.009	4.823	4.678	5.016
2007/11/8	4.954	4.552	5.299	5.069	4.939	5.225	5.050	4.930	5.193
2007/11/9	5.150	4.714	5.482	5.263	5.157	5.370	5.253	5.154	5.375
2007/11/10	5.272	4.925	5.624	5.445	5.347	5.563	5.431	5.337	5.542
2007/11/11	5.467	5.172	5.759	5.601	5.509	5.719	5.593	5.502	5.707
2007/11/12	5.685	5.353	5.901	5.756	5.669	5.873	5.747	5.664	5.860
2007/11/13	5.827	5.529	6.058	5.913	5.827	6.018	5.906	5.821	6.013
2007/11/14	5.956	5.560	6.202	6.070	5.987	6.183	6.063	5.982	6.164
2007/11/15	6.087	5.676	6.336	6.232	6.143	6.345	6.224	6.137	6.326
2007/11/16	6.267	5.959	6.519	6.391	6.304	6.519	6.386	6.300	6.492
2007/11/17	6.435	6.176	6.685	6.550	6.476	6.642	6.544	6.466	6.644
2007/11/18	6.661	6.323	6.830	6.709	6.628	6.806	6.699	6.620	6.795
2007/11/19	6.807	6.507	6.997	6.854	6.781	6.962	6.849	6.774	6.959
2007/11/20	6.971	6.523	7.164	7.005	6.930	7.099	6.998	6.919	7.102
2007/11/21	7.106	6.758	7.346	7.160	7.085	7.256	7.157	7.076	7.257
2007/11/22	7.224	6.942	7.414	7.309	7.245	7.395	7.300	7.242	7.390
2007/11/23	7.373	7.153	7.470	7.390	7.354	7.467	7.385	7.349	7.444
2007/11/24	7.544	7.409	7.757	7.519	7.421	7.661	7.508	7.414	7.643
2007/11/25	7.724	7.505	7.870	7.699	7.618	7.799	7.687	7.604	7.795
2007/11/26	7.858	7.521	8.046	7.864	7.786	7.957	7.853	7.759	7.962
2007/11/27	8.100	7.747	8.332	8.062	7.945	8.225	8.052	7.934	8.200
2007/11/28	8.345	8.214	8.577	8.311	8.207	8.467	8.287	8.172	8.457
2007/11/29	8.589	8.427	8.833	8.574	8.463	8.740	8.546	8.426	8.708
2007/11/30	8.810	8.552	9.050	8.834	8.730	8.981	8.816	8.698	8.964
<i>Monthly</i>	6.126	1.652	9.050	6.246	3.835	8.981	6.232	3.834	8.964

Table 4-12 Water temperature data (°C) at 3 depths in Naga Ike, December 2007

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/12/1	9.037	8.851	9.188	9.033	8.972	9.121	9.020	8.938	9.125
2007/12/2	9.146	9.048	9.235	9.147	9.106	9.219	9.137	9.092	9.195
2007/12/3	9.224	9.052	9.381	9.221	9.159	9.330	9.219	9.161	9.326
2007/12/4	9.377	9.253	9.521	9.368	9.298	9.492	9.369	9.292	9.499
2007/12/5	9.500	9.460	9.558	9.505	9.474	9.555	9.495	9.464	9.555
2007/12/6	9.542	9.486	9.618	9.539	9.494	9.621	9.523	9.444	9.596
2007/12/7	9.628	9.555	9.733	9.621	9.563	9.715	9.606	9.539	9.696
2007/12/8	9.779	9.667	9.954	9.765	9.678	9.902	9.757	9.661	9.894
2007/12/9	9.947	9.688	10.102	9.968	9.871	10.100	9.953	9.869	10.082
2007/12/10	10.053	10.016	10.099	10.053	10.016	10.078	10.031	9.967	10.076
2007/12/11	9.838	8.787	10.032	9.996	9.936	10.061	9.966	9.809	10.052
2007/12/12	9.584	8.857	9.913	9.866	9.642	10.047	9.800	9.393	10.057
2007/12/13	9.508	9.303	9.816	9.366	9.065	9.795	8.978	8.735	9.355
2007/12/14	8.847	8.566	9.324	8.798	8.576	9.307	8.645	8.480	9.157
2007/12/15	8.299	8.100	8.559	8.274	8.149	8.577	8.214	8.053	8.498
2007/12/16	8.033	7.774	8.239	8.042	7.881	8.228	7.986	7.745	8.208
2007/12/17	7.743	7.585	7.901	7.769	7.653	7.905	7.738	7.600	7.918
2007/12/18	7.553	7.411	7.711	7.560	7.416	7.707	7.523	7.324	7.686
2007/12/19	7.250	7.020	7.405	7.271	7.103	7.392	7.256	7.081	7.394
2007/12/20	7.022	6.815	7.146	6.939	6.672	7.184	6.852	6.486	7.142
2007/12/21	6.691	6.575	6.805	6.680	6.512	6.869	6.667	6.522	6.857
2007/12/22	6.605	6.466	6.734	6.586	6.437	6.663	6.569	6.394	6.722
2007/12/23	6.415	5.960	6.615	6.423	5.949	6.623	6.401	5.839	6.632
2007/12/24	5.714	5.379	6.063	5.693	5.498	6.024	5.601	5.407	5.942
2007/12/25	5.416	5.193	5.644	5.357	5.221	5.486	5.324	5.237	5.390
2007/12/26	5.252	5.067	5.427	5.248	5.075	5.314	5.263	5.157	5.345
2007/12/27	5.146	4.969	5.304	5.205	5.107	5.283	5.229	5.149	5.274
2007/12/28	4.959	4.771	5.250	4.996	4.796	5.199	5.013	4.820	5.262
2007/12/29	4.803	4.441	5.049	4.831	4.765	4.913	4.799	4.717	4.888
2007/12/30	4.727	4.463	4.969	4.754	4.567	4.887	4.800	4.679	4.887
2007/12/31	4.761	4.458	5.137	4.756	4.602	4.946	4.804	4.749	4.893
<i>Monthly</i>	7.722	4.441	10.102	7.730	4.567	10.100	7.695	4.679	10.082

Table 4-13 Water temperature data (°C) at 3 depths in Naga Ike, January 2008

Depth Date	2.2 m			6.0 m			9.4 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2008/1/1	4.827	4.612	4.984	4.839	4.741	4.894	4.846	4.757	4.945
2008/1/2	4.691	4.526	5.084	4.707	4.539	4.824	4.791	4.693	4.853
2008/1/3	4.692	4.474	4.902	4.690	4.621	4.762	4.710	4.651	4.768
2008/1/4	4.687	4.452	4.960	4.703	4.558	4.809	4.713	4.612	4.774
2008/1/5	4.848	4.602	5.304	4.766	4.633	4.950	4.730	4.600	4.923
2008/1/6	4.739	4.557	4.990	4.763	4.574	4.980	4.758	4.611	4.869
2008/1/7	3.846	2.678	4.668	3.854	2.695	4.674	3.852	2.735	4.647
2008/1/8	2.434	2.253	2.671	2.474	2.274	2.815	2.616	2.289	3.075
2008/1/9	2.860	2.532	3.385	2.971	2.654	3.465	3.409	2.971	3.814
2008/1/10	3.225	3.088	3.391	3.297	3.141	3.492	3.456	3.141	3.823
2008/1/11	2.744	2.564	3.048	2.774	2.570	3.122	2.803	2.580	3.193
2008/1/12	2.530	2.384	2.722	2.552	2.401	2.821	2.623	2.413	3.155
2008/1/13	2.889	2.638	3.393	2.968	2.674	3.454	3.413	3.146	3.851
2008/1/14	3.521	3.184	4.060	3.543	3.180	4.036	3.577	3.224	4.023
2008/1/15	3.831	3.579	4.268	3.846	3.594	4.258	3.854	3.624	4.269
2008/1/16	4.001	3.872	4.181	4.028	3.932	4.184	4.022	3.926	4.154
<i>Monthly</i>	3.773	2.253	5.304	3.798	2.274	4.980	3.886	2.289	4.945

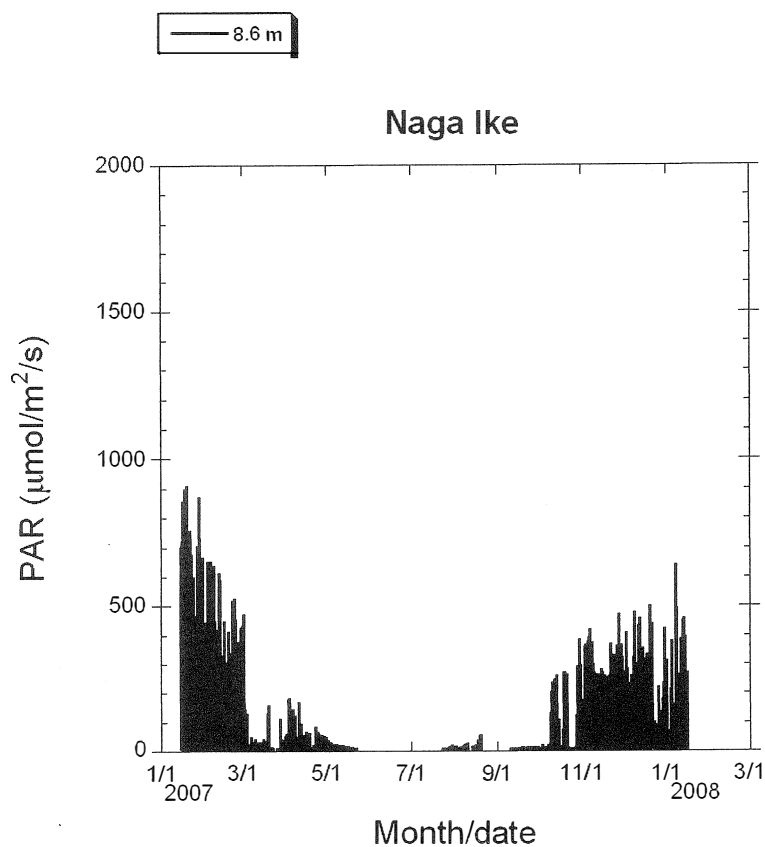


Fig. 8. Seasonal changes of PAR at 8.6 m depth in Naga Ike (2007-2008). 10-minute interval data.

Table 5-1 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, January 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/1/15	299	12	699
2007/1/16	295	10	719
2007/1/17	173	8	854
2007/1/18	261	8	897
2007/1/19	148	3	495
2007/1/20	253	3	907
2007/1/21	291	5	688
2007/1/22	220	4	755
2007/1/23	186	3	673
2007/1/24	227	3	595
2007/1/25	181	3	462
2007/1/26	155	2	369
2007/1/27	261	1	703
2007/1/28	273	1	680
2007/1/29	223	1	868
2007/1/30	234	1	651
2007/1/31	264	1	662
<i>Monthly</i>	232	1	907

Table 5-2 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, February 2007

Depth	8.6 m		
Date	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/2/1	111	0	436
2007/2/2	138	0	443
2007/2/3	107	0	339
2007/2/4	258	0	649
2007/2/5	232	0	639
2007/2/6	162	0	648
2007/2/7	78	0	219
2007/2/8	212	0	636
2007/2/9	119	0	444
2007/2/10	119	0	418
2007/2/11	70	0	244
2007/2/12	223	0	612
2007/2/13	222	0	585
2007/2/14	83	0	329
2007/2/15	56	0	171
2007/2/16	120	0	446
2007/2/17	83	0	301
2007/2/18	81	0	304
2007/2/19	110	0	409
2007/2/20	116	0	335
2007/2/21	59	0	193
2007/2/22	140	0	516
2007/2/23	169	0	523
2007/2/24	80	0	453
2007/2/25	73	0	236
2007/2/26	115	0	374
2007/2/27	118	0	371
2007/2/28	121	0	423
<i>Monthly</i>	128	0	649

Table 5-3 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, March 2007

Depth	8.6 m		
Date	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/3/1	116	0	431
2007/3/2	91	0	470
2007/3/3	40	0	142
2007/3/4	21	0	129
2007/3/5	5	0	21
2007/3/6	6	0	23
2007/3/7	10	0	45
2007/3/8	6	0	22
2007/3/9	9	0	29
2007/3/10	10	0	39
2007/3/11	7	0	23
2007/3/12	8	0	29
2007/3/13	7	0	25
2007/3/14	9	0	30
2007/3/15	9	0	29
2007/3/16	7	0	39
2007/3/17	8	0	32
2007/3/18	1	0	4
2007/3/19	28	0	129
2007/3/20	37	0	154
2007/3/21	3	0	10
2007/3/22	3	0	12
2007/3/23	1	0	7
2007/3/24	1	0	5
2007/3/25	1	0	6
2007/3/26	2	0	7
2007/3/27	1	0	7
2007/3/28	20	0	109
2007/3/29	8	0	40
2007/3/30	8	0	38
2007/3/31	10	0	37
<i>Monthly</i>	16	0	470

Table 5-4 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, April 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/4/1	13	0	51
2007/4/2	12	0	57
2007/4/3	36	0	176
2007/4/4	31	0	180
2007/4/5	29	0	136
2007/4/6	29	0	140
2007/4/7	23	0	111
2007/4/8	25	0	119
2007/4/9	11	0	46
2007/4/10	9	0	44
2007/4/11	27	0	167
2007/4/12	19	0	91
2007/4/13	7	0	30
2007/4/14	10	0	52
2007/4/15	10	0	55
2007/4/16	11	0	65
2007/4/17	6	0	37
2007/4/18	9	0	61
2007/4/19	3	0	13
2007/4/20	3	0	13
2007/4/21	4	0	17
2007/4/22	3	0	16
2007/4/23	12	0	80
2007/4/24	12	0	65
2007/4/25	9	0	55
2007/4/26	9	0	52
2007/4/27	10	0	55
2007/4/28	7	0	45
2007/4/29	7	0	51
2007/4/30	7	0	46
<i>Monthly</i>	13	0	180

Table 5-5 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, May 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/5/1	4	0	30
2007/5/2	6	0	37
2007/5/3	5	0	29
2007/5/4	4	0	24
2007/5/5	4	0	23
2007/5/6	3	0	18
2007/5/7	4	0	21
2007/5/8	3	0	21
2007/5/9	3	0	20
2007/5/10	3	0	19
2007/5/11	2	0	14
2007/5/12	2	0	17
2007/5/13	2	0	14
2007/5/14	2	0	14
2007/5/15	2	0	13
2007/5/16	2	0	14
2007/5/17	1	0	9
2007/5/18	1	0	10
2007/5/19	1	0	10
2007/5/20	1	0	8
2007/5/21	1	0	8
2007/5/22	1	0	8
2007/5/23	0	0	3
2007/5/24	0	0	1
2007/5/25	0	0	1
2007/5/26	0	0	1
2007/5/27	0	0	1
2007/5/28	0	0	1
2007/5/29	0	0	3
2007/5/30	0	0	3
2007/5/31	0	0	3
<i>Monthly</i>	2	0	37

Table 5-6 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, June 2007

Depth	8.6 m		
Date	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/6/1	0	0	1
2007/6/2	0	0	3
2007/6/3	0	0	2
2007/6/4	0	0	1
2007/6/5	0	0	1
2007/6/6	0	0	1
2007/6/7	0	0	2
2007/6/8	0	0	2
2007/6/9	0	0	1
2007/6/10	0	0	1
2007/6/11	0	0	1
2007/6/12	0	0	1
2007/6/13	0	0	1
2007/6/14	0	0	1
2007/6/15	0	0	1
2007/6/16	0	0	1
2007/6/17	0	0	1
2007/6/18	0	0	1
2007/6/19	0	0	1
2007/6/20	0	0	1
2007/6/21	0	0	1
2007/6/22	0	0	1
2007/6/23	0	0	1
2007/6/24	0	0	1
2007/6/25	0	0	1
2007/6/26	0	0	1
2007/6/27	0	0	1
2007/6/28	0	0	1
2007/6/29	0	0	1
2007/6/30	0	0	1
<i>Monthly</i>	0	0	3

Table 5-7 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, July 2007

Depth	8.6 m		
Date	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/7/1	0	0	1
2007/7/2	0	0	1
2007/7/3	0	0	1
2007/7/4	0	0	1
2007/7/5	0	0	2
2007/7/6	0	0	1
2007/7/7	0	0	2
2007/7/8	0	0	1
2007/7/9	0	0	2
2007/7/10	0	0	2
2007/7/11	0	0	2
2007/7/12	0	0	3
2007/7/13	0	0	3
2007/7/14	0	0	3
2007/7/15	0	0	3
2007/7/16	0	0	2
2007/7/17	0	0	3
2007/7/18	0	0	3
2007/7/19	0	0	3
2007/7/20	0	0	4
2007/7/21	0	0	3
2007/7/22	1	0	5
2007/7/23	1	0	9
2007/7/24	1	0	5
2007/7/25	1	0	7
2007/7/26	1	0	9
2007/7/27	1	0	9
2007/7/28	1	0	10
2007/7/29	2	0	15
2007/7/30	3	0	18
2007/7/31	2	0	13
<i>Monthly</i>	1	0	18

Table 5-8 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, August 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/8/1	2	0	13
2007/8/2	2	0	13
2007/8/3	1	0	8
2007/8/4	1	0	8
2007/8/5	2	0	11
2007/8/6	2	0	11
2007/8/7	2	0	15
2007/8/8	3	0	18
2007/8/9	4	0	23
2007/8/10	4	0	25
2007/8/11	0	0	4
2007/8/12	0	0	3
2007/8/13	0	0	2
2007/8/14	2	0	14
2007/8/15	2	0	12
2007/8/16	3	0	19
2007/8/17	0	0	3
2007/8/18	6	0	34
2007/8/19	9	0	50
2007/8/20	9	0	55
2007/8/21	1	0	4
2007/8/22	0	0	2
2007/8/23	0	0	3
2007/8/24	0	0	3
2007/8/25	1	0	3
2007/8/26	1	0	4
2007/8/27	1	0	4
2007/8/28	1	0	5
2007/8/29	1	0	6
2007/8/30	1	0	4
2007/8/31	0	0	1
<i>Monthly</i>	2	0	55

Table 5-9 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, September 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/9/1	0	0	2
2007/9/2	0	0	3
2007/9/3	1	0	3
2007/9/4	1	0	3
2007/9/5	1	0	4
2007/9/6	1	0	4
2007/9/7	1	0	4
2007/9/8	1	0	5
2007/9/9	1	0	6
2007/9/10	1	0	6
2007/9/11	1	0	7
2007/9/12	1	0	7
2007/9/13	2	0	8
2007/9/14	2	0	8
2007/9/15	2	0	8
2007/9/16	2	0	8
2007/9/17	2	0	8
2007/9/18	2	0	8
2007/9/19	2	0	12
2007/9/20	2	0	11
2007/9/21	2	0	8
2007/9/22	2	0	9
2007/9/23	3	0	10
2007/9/24	3	0	11
2007/9/25	3	0	10
2007/9/26	3	0	10
2007/9/27	3	0	10
2007/9/28	3	0	11
2007/9/29	3	0	11
2007/9/30	3	0	13
<i>Monthly</i>	2	0	13

Table 5-10 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, October 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/10/1	3	0	9
2007/10/2	2	0	8
2007/10/3	4	0	17
2007/10/4	2	0	8
2007/10/5	3	0	10
2007/10/6	4	0	11
2007/10/7	4	0	13
2007/10/8	5	0	18
2007/10/9	40	0	127
2007/10/10	66	0	201
2007/10/11	74	0	233
2007/10/12	72	0	242
2007/10/13	58	0	240
2007/10/14	88	0	257
2007/10/15	35	0	106
2007/10/16	4	0	12
2007/10/17	5	0	15
2007/10/18	23	0	70
2007/10/19	98	0	267
2007/10/20	101	0	270
2007/10/21	90	0	262
2007/10/22	4	0	11
2007/10/23	2	0	6
2007/10/24	2	0	7
2007/10/25	2	0	7
2007/10/26	2	0	7
2007/10/27	4	0	11
2007/10/28	20	0	122
2007/10/29	85	0	289
2007/10/30	129	0	381
2007/10/31	115	0	294
<i>Monthly</i>	37	0	381

Table 5-11 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, November 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/11/1	49	0	153
2007/11/2	63	0	173
2007/11/3	143	0	356
2007/11/4	148	0	366
2007/11/5	152	0	373
2007/11/6	160	0	388
2007/11/7	162	0	417
2007/11/8	135	0	371
2007/11/9	119	0	298
2007/11/10	109	0	268
2007/11/11	107	0	262
2007/11/12	106	0	257
2007/11/13	108	0	260
2007/11/14	109	0	262
2007/11/15	110	0	279
2007/11/16	113	1	270
2007/11/17	109	1	257
2007/11/18	103	1	245
2007/11/19	105	1	249
2007/11/20	106	1	253
2007/11/21	109	1	257
2007/11/22	85	1	367
2007/11/23	68	1	179
2007/11/24	142	3	327
2007/11/25	104	3	236
2007/11/26	114	3	361
2007/11/27	158	3	351
2007/11/28	155	4	470
2007/11/29	158	4	364
2007/11/30	147	5	322
<i>Monthly</i>	119	0	470

Table 5-12 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, December 2007

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/12/1	105	5	272
2007/12/2	75	3	216
2007/12/3	115	3	405
2007/12/4	128	6	281
2007/12/5	68	3	231
2007/12/6	84	2	226
2007/12/7	105	4	257
2007/12/8	143	5	323
2007/12/9	150	8	478
2007/12/10	67	4	172
2007/12/11	132	4	298
2007/12/12	195	8	431
2007/12/13	170	8	456
2007/12/14	118	11	352
2007/12/15	163	10	353
2007/12/16	147	9	313
2007/12/17	142	8	308
2007/12/18	105	8	331
2007/12/19	90	3	321
2007/12/20	164	8	498
2007/12/21	146	10	401
2007/12/22	177	10	437
2007/12/23	38	8	101
2007/12/24	23	2	60
2007/12/25	28	1	90
2007/12/26	68	3	219
2007/12/27	61	4	133
2007/12/28	27	3	68
2007/12/29	53	2	177
2007/12/30	93	4	235
2007/12/31	115	6	420
<i>Monthly</i>	106	1	498

Table 5-13 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 8.6 m in Naga Ike, January 2008

Depth	8.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	56	2	309
2008/1/2	16	0	67
2008/1/3	27	1	67
2008/1/4	82	3	212
2008/1/5	121	4	377
2008/1/6	54	2	161
2008/1/7	73	3	149
2008/1/8	166	3	640
2008/1/9	229	10	492
2008/1/10	63	10	167
2008/1/11	98	3	262
2008/1/12	124	3	386
2008/1/13	215	12	449
2008/1/14	204	8	454
2008/1/15	173	7	393
2008/1/16	51	3	268
<i>Monthly</i>	109	0	640

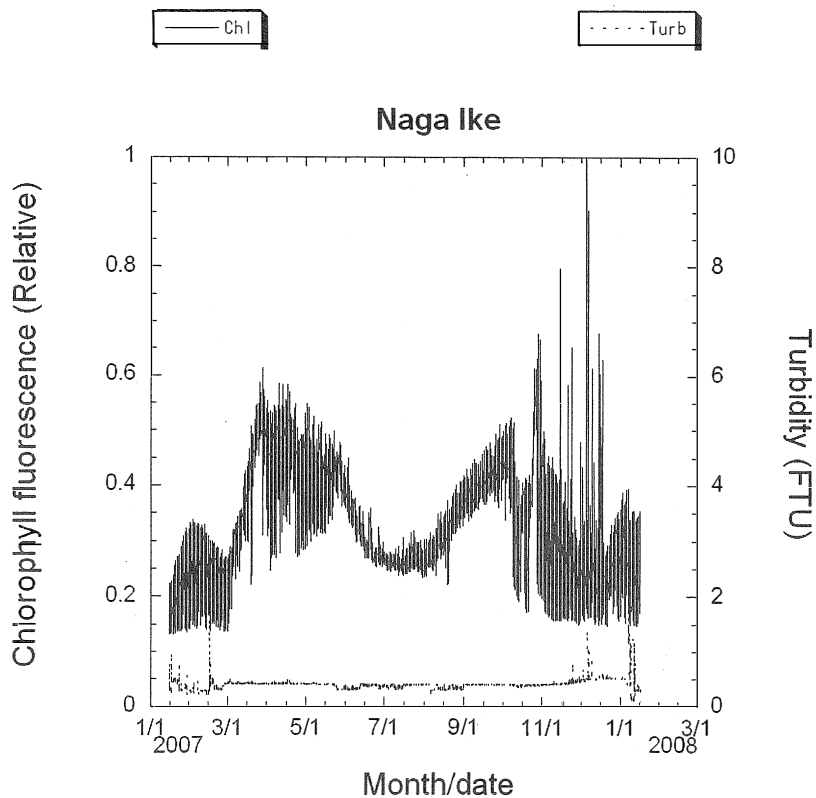


Fig. 9. Seasonal changes of chlorophyll fluorescence and turbidity at 2.2 m depth in Naga Ike (2007-2008). 60-minute interval data.

Table 6-1 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, January 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/15	0.16	0.12	0.23	0.37	0.20	1.60
2007/1/16	0.17	0.11	0.24	0.30	0.20	0.40
2007/1/17	0.18	0.12	0.24	0.44	0.20	1.80
2007/1/18	0.17	0.10	0.25	0.46	0.40	0.50
2007/1/19	0.19	0.12	0.27	0.49	0.40	0.50
2007/1/20	0.18	0.10	0.27	0.49	0.40	0.50
2007/1/21	0.18	0.12	0.28	0.46	0.40	0.50
2007/1/22	0.19	0.12	0.28	0.42	0.30	0.60
2007/1/23	0.20	0.11	0.29	0.42	0.20	1.80
2007/1/24	0.20	0.12	0.30	0.31	0.20	0.50
2007/1/25	0.21	0.13	0.33	0.30	0.20	0.30
2007/1/26	0.21	0.15	0.33	0.30	0.20	0.30
2007/1/27	0.20	0.12	0.33	0.33	0.20	0.40
2007/1/28	0.20	0.12	0.33	0.31	0.20	0.40
2007/1/29	0.21	0.12	0.33	0.33	0.20	0.70
2007/1/30	0.21	0.12	0.35	0.30	0.20	0.30
2007/1/31	0.21	0.12	0.35	0.29	0.20	0.30
<i>Monthly</i>	0.19	0.10	0.35	0.37	0.20	1.80

Table 6-2 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, February 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	0.23	0.14	0.34	0.28	0.20	0.30
2007/2/2	0.24	0.13	0.35	0.29	0.20	0.50
2007/2/3	0.24	0.14	0.37	0.31	0.20	0.70
2007/2/4	0.21	0.12	0.35	0.30	0.30	0.30
2007/2/5	0.21	0.12	0.35	0.30	0.30	0.30
2007/2/6	0.22	0.13	0.35	0.31	0.20	0.60
2007/2/7	0.23	0.15	0.34	0.30	0.20	0.40
2007/2/8	0.22	0.13	0.34	0.29	0.20	0.30
2007/2/9	0.23	0.14	0.35	0.29	0.20	0.30
2007/2/10	0.23	0.14	0.33	0.28	0.20	0.30
2007/2/11	0.24	0.16	0.35	0.28	0.20	0.30
2007/2/12	0.21	0.12	0.33	0.28	0.20	0.30
2007/2/13	0.21	0.12	0.33	0.26	0.20	0.30
2007/2/14	0.24	0.13	0.33	0.24	0.20	0.50
2007/2/15	0.23	0.15	0.30	0.50	0.10	3.50
2007/2/16	0.22	0.13	0.32	0.48	0.20	1.30
2007/2/17	0.22	0.13	0.32	0.43	0.40	0.50
2007/2/18	0.23	0.14	0.30	0.41	0.30	0.50
2007/2/19	0.22	0.14	0.32	0.33	0.30	0.50
2007/2/20	0.21	0.12	0.30	0.35	0.30	0.40
2007/2/21	0.22	0.14	0.30	0.34	0.30	0.40
2007/2/22	0.21	0.12	0.30	0.32	0.30	0.40
2007/2/23	0.20	0.12	0.28	0.32	0.30	0.40
2007/2/24	0.22	0.14	0.30	0.31	0.30	0.40
2007/2/25	0.21	0.14	0.29	0.31	0.30	0.40
2007/2/26	0.20	0.12	0.28	0.38	0.30	0.50
2007/2/27	0.20	0.12	0.29	0.41	0.30	0.50
2007/2/28	0.20	0.12	0.29	0.41	0.40	0.50
<i>Monthly</i>	0.22	0.12	0.37	0.33	0.10	3.50

Table 6-3 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, March 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	0.21	0.12	0.28	0.41	0.40	0.50
2007/3/2	0.22	0.14	0.29	0.42	0.40	0.50
2007/3/3	0.23	0.16	0.30	0.42	0.40	0.50
2007/3/4	0.25	0.16	0.30	0.41	0.40	0.50
2007/3/5	0.28	0.23	0.33	0.41	0.40	0.50
2007/3/6	0.29	0.24	0.34	0.41	0.40	0.50
2007/3/7	0.29	0.22	0.34	0.40	0.30	0.50
2007/3/8	0.31	0.26	0.35	0.41	0.40	0.50
2007/3/9	0.31	0.24	0.37	0.41	0.40	0.50
2007/3/10	0.31	0.22	0.36	0.40	0.30	0.50
2007/3/11	0.32	0.26	0.38	0.40	0.40	0.50
2007/3/12	0.33	0.27	0.39	0.40	0.40	0.50
2007/3/13	0.36	0.30	0.41	0.40	0.40	0.50
2007/3/14	0.37	0.29	0.44	0.41	0.40	0.50
2007/3/15	0.38	0.27	0.44	0.41	0.30	0.50
2007/3/16	0.40	0.29	0.45	0.41	0.30	0.50
2007/3/17	0.39	0.27	0.46	0.41	0.40	0.50
2007/3/18	0.43	0.38	0.48	0.41	0.40	0.50
2007/3/19	0.40	0.21	0.56	0.41	0.40	0.50
2007/3/20	0.38	0.22	0.51	0.42	0.40	0.50
2007/3/21	0.43	0.38	0.53	0.41	0.40	0.50
2007/3/22	0.47	0.41	0.53	0.40	0.40	0.50
2007/3/23	0.49	0.44	0.60	0.40	0.40	0.50
2007/3/24	0.50	0.45	0.59	0.40	0.40	0.50
2007/3/25	0.50	0.44	0.58	0.40	0.40	0.40
2007/3/26	0.52	0.45	0.62	0.40	0.40	0.50
2007/3/27	0.52	0.47	0.59	0.40	0.40	0.50
2007/3/28	0.49	0.28	0.67	0.41	0.40	0.50
2007/3/29	0.51	0.39	0.61	0.40	0.40	0.50
2007/3/30	0.49	0.41	0.59	0.40	0.40	0.50
2007/3/31	0.47	0.33	0.56	0.40	0.40	0.50
<i>Monthly</i>	0.38	0.12	0.67	0.41	0.30	0.50

Table 6-4 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, April 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	0.45	0.30	0.58	0.40	0.40	0.50
2007/4/2	0.43	0.29	0.57	0.40	0.30	0.50
2007/4/3	0.41	0.22	0.56	0.40	0.40	0.50
2007/4/4	0.41	0.26	0.56	0.40	0.40	0.50
2007/4/5	0.43	0.26	0.55	0.41	0.40	0.50
2007/4/6	0.44	0.27	0.56	0.41	0.40	0.50
2007/4/7	0.45	0.27	0.56	0.41	0.40	0.50
2007/4/8	0.44	0.25	0.56	0.41	0.40	0.50
2007/4/9	0.48	0.35	0.56	0.41	0.40	0.50
2007/4/10	0.50	0.35	0.61	0.42	0.40	0.50
2007/4/11	0.45	0.26	0.56	0.41	0.30	0.50
2007/4/12	0.45	0.30	0.56	0.40	0.40	0.50
2007/4/13	0.49	0.38	0.59	0.41	0.40	0.50
2007/4/14	0.46	0.33	0.56	0.41	0.30	0.50
2007/4/15	0.46	0.33	0.60	0.41	0.40	0.50
2007/4/16	0.47	0.33	0.59	0.40	0.40	0.50
2007/4/17	0.50	0.35	0.61	0.41	0.30	0.50
2007/4/18	0.48	0.32	0.59	0.41	0.40	0.50
2007/4/19	0.47	0.38	0.56	0.40	0.40	0.50
2007/4/20	0.48	0.39	0.56	0.40	0.40	0.50
2007/4/21	0.47	0.36	0.56	0.40	0.40	0.50
2007/4/22	0.48	0.36	0.56	0.40	0.40	0.50
2007/4/23	0.45	0.27	0.60	0.40	0.30	0.40
2007/4/24	0.42	0.26	0.54	0.40	0.40	0.50
2007/4/25	0.42	0.27	0.52	0.40	0.40	0.40
2007/4/26	0.42	0.27	0.51	0.40	0.40	0.50
2007/4/27	0.42	0.27	0.53	0.40	0.30	0.50
2007/4/28	0.43	0.29	0.52	0.40	0.40	0.50
2007/4/29	0.44	0.27	0.52	0.40	0.40	0.50
2007/4/30	0.44	0.27	0.56	0.40	0.30	0.50
<i>Monthly</i>	0.45	0.22	0.61	0.40	0.30	0.50

Table 6-5 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, May 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	0.45	0.30	0.53	0.40	0.40	0.50
2007/5/2	0.46	0.27	0.59	0.40	0.40	0.50
2007/5/3	0.47	0.29	0.60	0.40	0.30	0.50
2007/5/4	0.44	0.30	0.53	0.40	0.30	0.50
2007/5/5	0.42	0.27	0.51	0.40	0.30	0.50
2007/5/6	0.44	0.32	0.53	0.41	0.40	0.50
2007/5/7	0.43	0.30	0.54	0.40	0.40	0.50
2007/5/8	0.42	0.29	0.53	0.40	0.40	0.50
2007/5/9	0.42	0.29	0.53	0.40	0.30	0.50
2007/5/10	0.42	0.30	0.51	0.40	0.40	0.50
2007/5/11	0.44	0.30	0.54	0.40	0.40	0.50
2007/5/12	0.43	0.30	0.51	0.40	0.40	0.50
2007/5/13	0.42	0.30	0.56	0.40	0.30	0.40
2007/5/14	0.41	0.30	0.50	0.40	0.30	0.40
2007/5/15	0.41	0.30	0.49	0.40	0.30	0.50
2007/5/16	0.42	0.30	0.51	0.40	0.30	0.50
2007/5/17	0.43	0.35	0.50	0.40	0.30	0.40
2007/5/18	0.42	0.32	0.51	0.40	0.30	0.40
2007/5/19	0.43	0.33	0.53	0.40	0.40	0.40
2007/5/20	0.43	0.32	0.51	0.40	0.30	0.40
2007/5/21	0.42	0.32	0.50	0.40	0.30	0.40
2007/5/22	0.42	0.33	0.50	0.40	0.30	0.40
2007/5/23	0.44	0.38	0.56	0.40	0.30	0.40
2007/5/24	0.42	0.38	0.48	0.39	0.30	0.40
2007/5/25	0.42	0.36	0.48	0.33	0.30	0.40
2007/5/26	0.43	0.36	0.48	0.30	0.30	0.40
2007/5/27	0.45	0.39	0.56	0.30	0.30	0.40
2007/5/28	0.43	0.38	0.51	0.30	0.20	0.40
2007/5/29	0.40	0.35	0.46	0.31	0.30	0.40
2007/5/30	0.39	0.35	0.47	0.34	0.30	0.40
2007/5/31	0.39	0.35	0.46	0.34	0.30	0.40
<i>Monthly</i>	0.43	0.27	0.60	0.38	0.20	0.50

Table 6-6 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, June 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	0.39	0.33	0.45	0.35	0.30	0.40
2007/6/2	0.38	0.33	0.47	0.31	0.30	0.40
2007/6/3	0.39	0.33	0.56	0.30	0.30	0.40
2007/6/4	0.36	0.32	0.43	0.31	0.30	0.40
2007/6/5	0.35	0.32	0.41	0.31	0.30	0.40
2007/6/6	0.35	0.30	0.41	0.32	0.30	0.40
2007/6/7	0.34	0.30	0.39	0.31	0.30	0.40
2007/6/8	0.33	0.30	0.40	0.31	0.30	0.40
2007/6/9	0.33	0.27	0.38	0.32	0.30	0.40
2007/6/10	0.32	0.27	0.36	0.31	0.30	0.40
2007/6/11	0.33	0.27	0.40	0.35	0.30	0.40
2007/6/12	0.32	0.28	0.43	0.40	0.30	0.40
2007/6/13	0.31	0.27	0.35	0.40	0.30	0.40
2007/6/14	0.32	0.27	0.38	0.39	0.30	0.40
2007/6/15	0.31	0.27	0.35	0.39	0.30	0.40
2007/6/16	0.29	0.26	0.33	0.39	0.30	0.40
2007/6/17	0.28	0.25	0.33	0.39	0.30	0.40
2007/6/18	0.28	0.25	0.33	0.38	0.30	0.40
2007/6/19	0.31	0.26	0.38	0.38	0.30	0.40
2007/6/20	0.31	0.27	0.39	0.39	0.30	0.40
2007/6/21	0.28	0.25	0.33	0.39	0.30	0.40
2007/6/22	0.27	0.25	0.32	0.39	0.30	0.40
2007/6/23	0.27	0.24	0.30	0.38	0.30	0.40
2007/6/24	0.27	0.23	0.32	0.38	0.30	0.40
2007/6/25	0.27	0.24	0.30	0.38	0.30	0.40
2007/6/26	0.28	0.24	0.33	0.37	0.30	0.40
2007/6/27	0.27	0.24	0.34	0.37	0.30	0.40
2007/6/28	0.27	0.24	0.30	0.35	0.30	0.40
2007/6/29	0.27	0.24	0.32	0.37	0.30	0.40
2007/6/30	0.27	0.24	0.33	0.38	0.30	0.40
<i>Monthly</i>	0.31	0.23	0.56	0.36	0.30	0.40

Table 6-7 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, July 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	0.27	0.24	0.30	0.38	0.30	0.40
2007/7/2	0.27	0.24	0.30	0.36	0.30	0.40
2007/7/3	0.26	0.24	0.30	0.35	0.30	0.40
2007/7/4	0.26	0.23	0.29	0.34	0.30	0.40
2007/7/5	0.26	0.23	0.30	0.36	0.30	0.40
2007/7/6	0.26	0.23	0.30	0.39	0.30	0.40
2007/7/7	0.26	0.24	0.30	0.40	0.30	0.40
2007/7/8	0.26	0.23	0.30	0.39	0.30	0.40
2007/7/9	0.26	0.24	0.30	0.34	0.30	0.40
2007/7/10	0.26	0.23	0.30	0.35	0.30	0.40
2007/7/11	0.26	0.23	0.30	0.34	0.30	0.40
2007/7/12	0.26	0.23	0.30	0.36	0.30	0.40
2007/7/13	0.26	0.23	0.29	0.35	0.30	0.40
2007/7/14	0.26	0.23	0.29	0.35	0.30	0.40
2007/7/15	0.26	0.22	0.31	0.36	0.30	0.40
2007/7/16	0.26	0.22	0.32	0.38	0.30	0.40
2007/7/17	0.26	0.23	0.30	0.39	0.30	0.40
2007/7/18	0.26	0.22	0.30	0.39	0.30	0.40
2007/7/19	0.26	0.23	0.30	0.39	0.30	0.40
2007/7/20	0.26	0.23	0.32	0.38	0.30	0.40
2007/7/21	0.26	0.23	0.30	0.39	0.30	0.40
2007/7/22	0.28	0.23	0.33	0.40	0.30	0.40
2007/7/23	0.27	0.24	0.33	0.40	0.30	0.40
2007/7/24	0.27	0.23	0.33	0.40	0.30	0.40
2007/7/25	0.27	0.23	0.33	0.40	0.30	0.40
2007/7/26	0.27	0.23	0.32	0.40	0.30	0.40
2007/7/27	0.27	0.23	0.32	0.40	0.30	0.40
2007/7/28	0.26	0.23	0.32	0.40	0.30	0.40
2007/7/29	0.26	0.23	0.32	0.40	0.30	0.40
2007/7/30	0.26	0.22	0.30	0.40	0.30	0.40
2007/7/31	0.26	0.23	0.30	0.40	0.30	0.40
<i>Monthly</i>	0.26	0.22	0.33	0.38	0.30	0.40

Table 6-8 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, August 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	0.26	0.23	0.33	0.40	0.30	0.40
2007/8/2	0.26	0.23	0.30	0.40	0.30	0.40
2007/8/3	0.27	0.22	0.33	0.40	0.30	0.40
2007/8/4	0.27	0.24	0.33	0.40	0.30	0.40
2007/8/5	0.27	0.24	0.33	0.33	0.20	0.40
2007/8/6	0.28	0.24	0.33	0.27	0.20	0.30
2007/8/7	0.27	0.23	0.33	0.30	0.20	0.30
2007/8/8	0.27	0.23	0.33	0.30	0.30	0.40
2007/8/9	0.27	0.24	0.33	0.33	0.30	0.40
2007/8/10	0.27	0.22	0.35	0.40	0.30	0.40
2007/8/11	0.29	0.24	0.34	0.40	0.30	0.40
2007/8/12	0.30	0.26	0.36	0.35	0.30	0.40
2007/8/13	0.31	0.27	0.35	0.32	0.30	0.40
2007/8/14	0.30	0.26	0.38	0.31	0.30	0.40
2007/8/15	0.30	0.27	0.35	0.33	0.30	0.40
2007/8/16	0.30	0.26	0.38	0.35	0.30	0.40
2007/8/17	0.30	0.27	0.40	0.31	0.30	0.40
2007/8/18	0.31	0.24	0.38	0.30	0.20	0.40
2007/8/19	0.29	0.21	0.38	0.30	0.30	0.40
2007/8/20	0.29	0.22	0.35	0.33	0.30	0.40
2007/8/21	0.32	0.27	0.38	0.34	0.30	0.40
2007/8/22	0.33	0.28	0.38	0.37	0.30	0.40
2007/8/23	0.34	0.30	0.41	0.35	0.30	0.40
2007/8/24	0.34	0.30	0.40	0.34	0.30	0.40
2007/8/25	0.35	0.29	0.41	0.34	0.30	0.40
2007/8/26	0.35	0.30	0.43	0.33	0.30	0.40
2007/8/27	0.35	0.30	0.41	0.33	0.30	0.40
2007/8/28	0.36	0.32	0.41	0.33	0.30	0.40
2007/8/29	0.36	0.30	0.44	0.33	0.30	0.40
2007/8/30	0.36	0.33	0.42	0.33	0.30	0.40
2007/8/31	0.37	0.32	0.44	0.38	0.30	0.40
<i>Monthly</i>	0.31	0.21	0.44	0.34	0.20	0.40

Table 6-9 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, September 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/9/1	0.37	0.33	0.43	0.40	0.30	0.40
2007/9/2	0.37	0.33	0.44	0.40	0.30	0.40
2007/9/3	0.38	0.33	0.44	0.40	0.30	0.40
2007/9/4	0.38	0.33	0.45	0.40	0.30	0.40
2007/9/5	0.38	0.32	0.44	0.40	0.30	0.40
2007/9/6	0.38	0.33	0.45	0.39	0.30	0.40
2007/9/7	0.38	0.33	0.46	0.39	0.30	0.40
2007/9/8	0.39	0.33	0.47	0.40	0.30	0.40
2007/9/9	0.38	0.34	0.47	0.40	0.30	0.40
2007/9/10	0.39	0.35	0.46	0.40	0.30	0.40
2007/9/11	0.40	0.35	0.46	0.40	0.30	0.40
2007/9/12	0.40	0.35	0.48	0.40	0.30	0.40
2007/9/13	0.40	0.36	0.45	0.40	0.30	0.40
2007/9/14	0.40	0.36	0.46	0.40	0.30	0.40
2007/9/15	0.41	0.35	0.48	0.40	0.30	0.40
2007/9/16	0.40	0.35	0.46	0.40	0.30	0.40
2007/9/17	0.41	0.34	0.48	0.40	0.30	0.40
2007/9/18	0.41	0.35	0.49	0.40	0.30	0.40
2007/9/19	0.41	0.35	0.48	0.40	0.30	0.40
2007/9/20	0.42	0.38	0.50	0.40	0.30	0.40
2007/9/21	0.43	0.37	0.51	0.40	0.40	0.40
2007/9/22	0.43	0.36	0.51	0.40	0.30	0.40
2007/9/23	0.43	0.36	0.49	0.40	0.30	0.40
2007/9/24	0.43	0.38	0.50	0.40	0.30	0.40
2007/9/25	0.42	0.35	0.51	0.40	0.30	0.40
2007/9/26	0.43	0.35	0.53	0.40	0.30	0.40
2007/9/27	0.43	0.34	0.52	0.40	0.30	0.40
2007/9/28	0.42	0.33	0.51	0.40	0.30	0.40
2007/9/29	0.44	0.37	0.55	0.40	0.30	0.40
2007/9/30	0.43	0.33	0.51	0.40	0.30	0.40
<i>Monthly</i>	0.41	0.32	0.55	0.40	0.30	0.40

Table 6-10 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, October 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/10/1	0.44	0.38	0.53	0.40	0.30	0.40
2007/10/2	0.45	0.38	0.52	0.40	0.30	0.40
2007/10/3	0.43	0.32	0.56	0.40	0.40	0.40
2007/10/4	0.45	0.38	0.54	0.40	0.40	0.40
2007/10/5	0.45	0.37	0.53	0.40	0.40	0.40
2007/10/6	0.44	0.33	0.55	0.40	0.30	0.50
2007/10/7	0.44	0.33	0.56	0.40	0.30	0.40
2007/10/8	0.44	0.33	0.54	0.40	0.40	0.50
2007/10/9	0.35	0.22	0.53	0.40	0.30	0.40
2007/10/10	0.33	0.20	0.56	0.39	0.30	0.40
2007/10/11	0.30	0.20	0.47	0.39	0.30	0.40
2007/10/12	0.28	0.18	0.43	0.37	0.30	0.40
2007/10/13	0.27	0.18	0.39	0.38	0.30	0.40
2007/10/14	0.28	0.16	0.42	0.37	0.30	0.40
2007/10/15	0.28	0.20	0.38	0.38	0.30	0.40
2007/10/16	0.35	0.30	0.41	0.38	0.30	0.40
2007/10/17	0.36	0.30	0.42	0.38	0.30	0.40
2007/10/18	0.31	0.20	0.42	0.38	0.30	0.40
2007/10/19	0.27	0.15	0.43	0.39	0.30	0.40
2007/10/20	0.25	0.15	0.43	0.39	0.30	0.40
2007/10/21	0.25	0.15	0.41	0.39	0.30	0.40
2007/10/22	0.36	0.32	0.43	0.39	0.30	0.40
2007/10/23	0.37	0.33	0.43	0.39	0.30	0.40
2007/10/24	0.40	0.35	0.47	0.39	0.30	0.40
2007/10/25	0.46	0.41	0.56	0.39	0.30	0.40
2007/10/26	0.54	0.47	0.64	0.39	0.30	0.40
2007/10/27	0.56	0.48	0.64	0.39	0.30	0.40
2007/10/28	0.50	0.21	0.65	0.40	0.30	0.40
2007/10/29	0.39	0.19	0.72	0.39	0.30	0.40
2007/10/30	0.36	0.18	0.69	0.39	0.30	0.40
2007/10/31	0.30	0.18	0.61	0.40	0.30	0.40
<i>Monthly</i>	0.38	0.15	0.72	0.39	0.30	0.50

Table 6-11 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, November 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/11/1	0.32	0.18	0.47	0.40	0.30	0.40
2007/11/2	0.33	0.17	0.51	0.40	0.30	0.40
2007/11/3	0.28	0.15	0.53	0.40	0.30	0.40
2007/11/4	0.26	0.14	0.45	0.40	0.30	0.40
2007/11/5	0.26	0.15	0.46	0.40	0.40	0.40
2007/11/6	0.26	0.14	0.47	0.40	0.30	0.40
2007/11/7	0.26	0.14	0.47	0.40	0.30	0.40
2007/11/8	0.26	0.14	0.46	0.40	0.40	0.50
2007/11/9	0.26	0.14	0.47	0.40	0.30	0.50
2007/11/10	0.26	0.13	0.45	0.41	0.40	0.50
2007/11/11	0.26	0.14	0.46	0.40	0.30	0.50
2007/11/12	0.26	0.15	0.44	0.40	0.40	0.50
2007/11/13	0.25	0.14	0.42	0.40	0.40	0.50
2007/11/14	0.25	0.14	0.42	0.40	0.40	0.50
2007/11/15	0.28	0.13	0.82	0.40	0.40	0.50
2007/11/16	0.25	0.13	0.70	0.41	0.40	0.50
2007/11/17	0.24	0.15	0.41	0.41	0.40	0.50
2007/11/18	0.24	0.14	0.40	0.41	0.40	0.50
2007/11/19	0.25	0.14	0.42	0.41	0.40	0.50
2007/11/20	0.24	0.15	0.40	0.42	0.40	0.50
2007/11/21	0.26	0.14	0.64	0.42	0.40	0.50
2007/11/22	0.23	0.14	0.36	0.43	0.40	0.50
2007/11/23	0.26	0.16	0.43	0.45	0.40	0.50
2007/11/24	0.25	0.14	0.68	0.47	0.40	0.80
2007/11/25	0.22	0.14	0.33	0.45	0.40	0.50
2007/11/26	0.23	0.14	0.36	0.46	0.40	0.50
2007/11/27	0.21	0.14	0.35	0.46	0.40	0.50
2007/11/28	0.20	0.13	0.33	0.48	0.40	0.50
2007/11/29	0.20	0.13	0.32	0.48	0.40	0.60
2007/11/30	0.20	0.13	0.35	0.48	0.40	0.50
<i>Monthly</i>	0.25	0.13	0.82	0.42	0.30	0.80

Table 6-12 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, December 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/12/1	0.22	0.12	0.52	0.48	0.40	0.50
2007/12/2	0.23	0.15	0.67	0.50	0.40	0.80
2007/12/3	0.22	0.14	0.35	0.49	0.40	0.50
2007/12/4	0.21	0.14	0.35	0.49	0.40	0.50
2007/12/5	0.30	0.16	1.58	0.50	0.40	0.50
2007/12/6	0.24	0.15	0.38	0.53	0.40	1.40
2007/12/7	0.25	0.14	1.03	0.52	0.40	1.10
2007/12/8	0.22	0.14	0.73	0.50	0.40	0.60
2007/12/9	0.22	0.14	0.61	0.51	0.40	1.00
2007/12/10	0.27	0.18	0.64	0.50	0.50	0.50
2007/12/11	0.23	0.14	0.46	0.50	0.40	0.50
2007/12/12	0.20	0.12	0.33	0.50	0.40	0.50
2007/12/13	0.21	0.14	0.35	0.50	0.40	0.50
2007/12/14	0.21	0.14	0.51	0.50	0.40	0.50
2007/12/15	0.25	0.12	0.72	0.51	0.50	0.60
2007/12/16	0.22	0.13	0.69	0.50	0.50	0.60
2007/12/17	0.23	0.13	0.73	0.50	0.50	0.70
2007/12/18	0.23	0.15	0.67	0.54	0.50	0.60
2007/12/19	0.22	0.16	0.33	0.53	0.50	0.60
2007/12/20	0.20	0.13	0.30	0.52	0.50	0.60
2007/12/21	0.20	0.12	0.30	0.53	0.50	0.60
2007/12/22	0.20	0.13	0.32	0.52	0.50	0.60
2007/12/23	0.24	0.18	0.31	0.53	0.50	0.60
2007/12/24	0.26	0.18	0.34	0.50	0.50	0.60
2007/12/25	0.27	0.17	0.35	0.50	0.50	0.60
2007/12/26	0.24	0.15	0.33	0.50	0.50	0.60
2007/12/27	0.24	0.14	0.35	0.50	0.50	0.60
2007/12/28	0.28	0.16	0.38	0.50	0.50	0.60
2007/12/29	0.26	0.14	0.37	0.50	0.50	0.60
2007/12/30	0.23	0.12	0.38	0.50	0.50	0.60
2007/12/31	0.23	0.11	0.38	0.50	0.50	0.50
<i>Monthly</i>	0.23	0.11	1.58	0.51	0.40	1.40

Table 6-13 Chlorophyll a fluorescence and turbidity data at 2.2 m depth in Naga Ike, January 2008

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2008/1/1	0.27	0.13	0.38	0.50	0.50	0.60
2008/1/2	0.30	0.18	0.41	0.51	0.50	0.60
2008/1/3	0.30	0.17	0.41	0.50	0.50	0.60
2008/1/4	0.26	0.12	0.41	0.50	0.50	0.50
2008/1/5	0.25	0.10	0.39	0.50	0.40	0.50
2008/1/6	0.30	0.18	0.42	0.49	0.30	0.50
2008/1/7	0.25	0.15	0.41	0.85	0.10	4.20
2008/1/8	0.22	0.13	0.35	0.25	0.10	2.90
2008/1/9	0.20	0.12	0.35	0.14	0.10	0.20
2008/1/10	0.25	0.16	0.37	0.15	0.10	0.20
2008/1/11	0.24	0.14	0.38	0.43	0.10	2.80
2008/1/12	0.23	0.14	0.38	0.36	0.10	1.80
2008/1/13	0.21	0.12	0.35	0.30	0.30	0.40
2008/1/14	0.21	0.12	0.36	0.31	0.30	0.40
2008/1/15	0.21	0.12	0.36	0.37	0.20	0.80
2008/1/16	0.28	0.16	0.38	0.31	0.20	0.50
<i>Monthly</i>	0.25	0.10	0.42	0.40	0.10	4.20

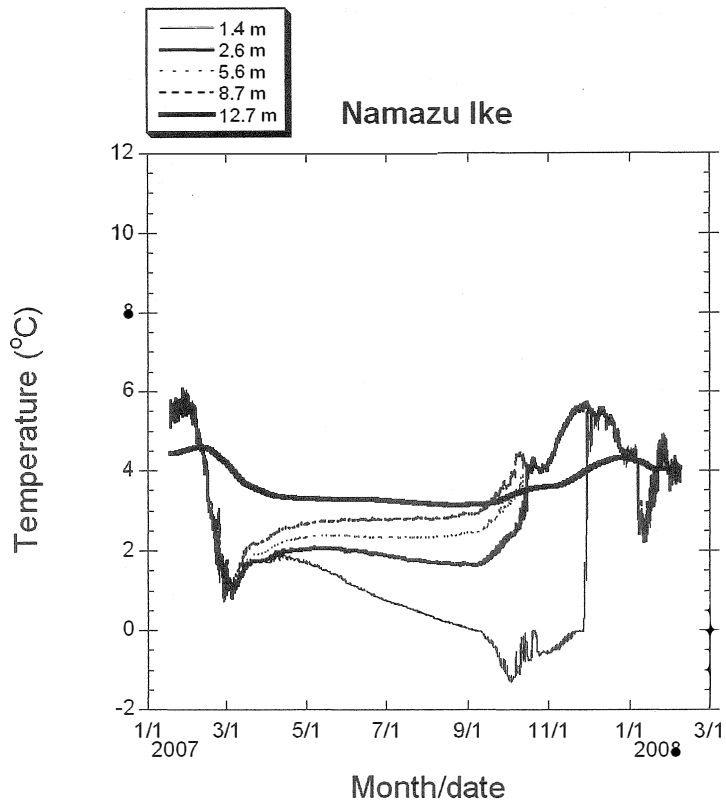


Fig. 10. Seasonal changes of water temperature at five depths in Namazu Ike (2007-2008). 30-minute interval data.

Table 7-1 Water temperature data (°C) at 5 depths in Namazu Ike, January 2007

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
Date	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/18	5.357	5.127	5.794	5.342	5.115	5.782	5.263	5.111	5.475	5.247	5.102	5.407	4.440	4.439	4.444
2007/1/19	5.537	5.463	5.761	5.523	5.465	5.689	5.447	5.380	5.552	5.396	5.324	5.499	4.440	4.439	4.442
2007/1/20	5.446	5.317	5.586	5.442	5.311	5.565	5.449	5.311	5.573	5.418	5.253	5.560	4.443	4.442	4.445
2007/1/21	5.479	5.246	5.837	5.460	5.243	5.735	5.451	5.221	5.697	5.408	5.215	5.561	4.448	4.446	4.451
2007/1/22	5.532	5.305	5.842	5.513	5.298	5.832	5.459	5.313	5.710	5.409	5.266	5.650	4.454	4.451	4.457
2007/1/23	5.490	5.272	5.834	5.483	5.270	5.802	5.468	5.273	5.685	5.456	5.270	5.688	4.460	4.457	4.464
2007/1/24	5.501	5.293	5.726	5.491	5.286	5.730	5.486	5.257	5.701	5.479	5.290	5.674	4.468	4.464	4.472
2007/1/25	5.614	5.479	5.787	5.607	5.467	5.775	5.600	5.477	5.759	5.561	5.438	5.667	4.476	4.472	4.480
2007/1/26	5.679	5.585	5.803	5.677	5.584	5.794	5.685	5.605	5.812	5.669	5.598	5.773	4.485	4.480	4.489
2007/1/27	5.733	5.415	6.101	5.708	5.394	6.061	5.644	5.410	5.812	5.617	5.415	5.772	4.493	4.489	4.498
2007/1/28	5.723	5.477	6.044	5.703	5.464	5.966	5.687	5.472	5.889	5.670	5.445	5.898	4.503	4.498	4.508
2007/1/29	5.629	5.408	5.907	5.619	5.399	5.853	5.620	5.417	5.875	5.605	5.428	5.898	4.513	4.508	4.518
2007/1/30	5.659	5.420	6.046	5.648	5.410	5.945	5.609	5.417	5.807	5.569	5.407	5.700	4.523	4.518	4.528
2007/1/31	5.746	5.467	5.978	5.726	5.470	5.935	5.671	5.476	5.874	5.639	5.472	5.799	4.534	4.528	4.539
<i>Monthly</i>	5.580	5.127	6.101	5.567	5.115	6.061	5.538	5.111	5.889	5.510	5.102	5.898	4.477	4.439	4.539

Table 7-2 Water temperature data (°C) at 5 depths in Namazu Ike, February 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	5.72904	5.657	5.89	5.7214	5.65	5.883	5.72629	5.667	5.856	5.70575	5.651	5.742	4.54454	4.539	4.55
2007/2/2	5.56644	5.47	5.7	5.56446	5.449	5.7	5.57204	5.455	5.714	5.55529	5.435	5.725	4.55463	4.55	4.559
2007/2/3	5.41081	5.367	5.512	5.40223	5.352	5.501	5.41017	5.353	5.489	5.40575	5.32	5.499	4.56452	4.559	4.569
2007/2/4	5.41917	5.207	5.771	5.38027	5.181	5.692	5.33675	5.186	5.574	5.31604	5.138	5.45	4.57394	4.569	4.579
2007/2/5	5.48367	5.284	5.689	5.46163	5.265	5.642	5.45294	5.274	5.628	5.40902	5.267	5.55	4.58258	4.578	4.586
2007/2/6	5.3115	5.141	5.593	5.30792	5.128	5.577	5.31842	5.136	5.588	5.317	5.141	5.564	4.5894	4.587	4.592
2007/2/7	4.92525	4.705	5.305	4.92138	4.709	5.289	4.93892	4.719	5.31	4.94585	4.73	5.336	4.59444	4.592	4.597
2007/2/8	4.77527	4.63	5.026	4.77231	4.629	5.049	4.77127	4.62	5.016	4.70425	4.607	4.835	4.59902	4.597	4.601
2007/2/9	4.816	4.747	4.919	4.82	4.765	4.934	4.83942	4.748	4.965	4.80808	4.726	4.857	4.602	4.601	4.603
2007/2/10	4.66025	4.549	4.789	4.66348	4.541	4.785	4.67733	4.521	4.801	4.67585	4.502	4.804	4.60198	4.601	4.603
2007/2/11	4.53508	4.454	4.64	4.53944	4.459	4.635	4.55438	4.465	4.656	4.54425	4.432	4.662	4.59908	4.597	4.601
2007/2/12	4.36187	4.181	4.508	4.35413	4.188	4.467	4.36473	4.178	4.529	4.35715	4.195	4.488	4.59421	4.591	4.597
2007/2/13	4.14429	3.926	4.396	4.14721	3.922	4.379	4.16804	3.92	4.418	4.17904	3.93	4.423	4.58765	4.584	4.591
2007/2/14	4.06165	3.985	4.219	4.06463	3.987	4.218	4.07915	3.996	4.235	4.07931	3.984	4.265	4.57915	4.574	4.584
2007/2/15	3.57756	3.277	4.004	3.57363	3.27	3.995	3.596	3.287	4.019	3.61071	3.306	4.045	4.56842	4.562	4.574
2007/2/16	3.08598	2.983	3.299	3.08269	2.981	3.302	3.10158	3	3.328	3.11744	3.012	3.337	4.55575	4.549	4.562
2007/2/17	2.90298	2.832	2.994	2.90552	2.852	2.992	2.93894	2.876	3.017	2.96056	2.887	3.06	4.53965	4.53	4.548
2007/2/18	2.84404	2.773	2.904	2.86444	2.815	2.922	2.93256	2.861	3.037	3.00931	2.885	3.206	4.5179	4.505	4.53
2007/2/19	2.68625	2.568	2.859	2.69498	2.553	2.899	2.78169	2.592	3.053	2.83915	2.641	3.153	4.49067	4.476	4.505
2007/2/20	2.48142	2.359	2.675	2.51054	2.342	2.669	2.60258	2.385	2.853	2.69288	2.448	2.99	4.46069	4.446	4.476
2007/2/21	2.1195	1.844	2.357	2.1675	2.013	2.393	2.36004	2.18	2.654	2.56906	2.326	2.771	4.43052	4.416	4.445
2007/2/22	1.85679	1.647	2.189	1.966	1.701	2.246	2.17823	1.859	2.491	2.49702	2.032	2.791	4.40083	4.387	4.415
2007/2/23	1.72571	1.406	1.988	1.89765	1.554	2.103	2.21181	1.806	2.456	2.63217	2.224	2.948	4.3716	4.357	4.386
2007/2/24	1.58083	1.222	1.822	1.82469	1.583	1.975	2.32406	2.122	2.563	2.82756	2.56	3.053	4.3429	4.329	4.357
2007/2/25	1.72342	1.545	1.894	1.76433	1.627	1.909	1.8919	1.715	2.185	2.09777	1.883	2.674	4.31579	4.303	4.328
2007/2/26	1.56206	1.351	1.824	1.56067	1.358	1.846	1.58802	1.427	1.85	1.60569	1.437	1.899	4.29135	4.28	4.303
2007/2/27	1.00938	0.727	1.356	1.08546	0.829	1.366	1.19117	0.958	1.421	1.27102	1.062	1.429	4.26858	4.257	4.28
2007/2/28	0.934	0.741	1.175	1.00502	0.825	1.281	1.16002	0.931	1.539	1.41367	1.088	1.649	4.2421	4.226	4.256
Monthly	3.546	0.727	5.890	3.572	0.825	5.883	3.645	0.931	5.856	3.720	1.062	5.742	4.499	4.226	4.603

Table 7-3 Water temperature data (°C) at 5 depths in Namazu Ike, March 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/3/1	1.051	0.879	1.215	1.079	0.908	1.366	1.168	1.013	1.390	1.571	1.407	1.732	4.208	4.189	4.226
2007/3/2	1.145	1.017	1.324	1.141	1.017	1.282	1.273	1.119	1.509	1.659	1.475	1.750	4.169	4.150	4.188
2007/3/3	1.243	1.105	1.340	1.253	1.125	1.322	1.313	1.213	1.359	1.515	1.296	1.748	4.131	4.113	4.149
2007/3/4	1.139	1.044	1.272	1.144	1.044	1.269	1.173	1.084	1.318	1.198	1.115	1.336	4.096	4.081	4.113
2007/3/5	0.958	0.843	1.088	0.974	0.838	1.101	1.040	0.905	1.150	1.112	1.017	1.171	4.065	4.049	4.080
2007/3/6	0.871	0.793	0.953	0.896	0.824	0.963	1.005	0.886	1.078	1.108	0.935	1.201	4.031	4.013	4.048
2007/3/7	1.019	0.954	1.145	1.015	0.958	1.187	1.071	1.019	1.216	1.234	1.164	1.334	3.992	3.971	4.012
2007/3/8	1.056	1.029	1.104	1.054	1.040	1.075	1.134	1.086	1.169	1.271	1.244	1.307	3.949	3.927	3.970
2007/3/9	1.108	1.055	1.206	1.107	1.064	1.184	1.194	1.156	1.279	1.343	1.281	1.418	3.904	3.883	3.926
2007/3/10	1.202	1.131	1.386	1.190	1.134	1.361	1.315	1.241	1.440	1.435	1.374	1.527	3.862	3.842	3.882
2007/3/11	1.279	1.224	1.390	1.273	1.225	1.344	1.381	1.306	1.490	1.549	1.487	1.647	3.821	3.803	3.841
2007/3/12	1.345	1.298	1.440	1.349	1.299	1.463	1.431	1.382	1.493	1.634	1.583	1.748	3.784	3.767	3.802
2007/3/13	1.397	1.358	1.475	1.394	1.361	1.484	1.466	1.425	1.502	1.693	1.642	1.746	3.752	3.737	3.767
2007/3/14	1.456	1.402	1.602	1.458	1.405	1.603	1.536	1.477	1.626	1.766	1.704	1.863	3.723	3.710	3.736
2007/3/15	1.530	1.474	1.666	1.530	1.478	1.687	1.610	1.532	1.745	1.888	1.831	1.972	3.697	3.686	3.709
2007/3/16	1.595	1.555	1.716	1.585	1.555	1.656	1.697	1.620	1.794	1.946	1.896	2.035	3.675	3.664	3.685
2007/3/17	1.652	1.626	1.691	1.652	1.613	1.716	1.743	1.689	1.808	2.030	1.987	2.068	3.655	3.646	3.664
2007/3/18	1.662	1.637	1.671	1.662	1.655	1.670	1.772	1.731	1.781	2.051	2.038	2.071	3.638	3.630	3.646
2007/3/19	1.671	1.648	1.698	1.670	1.650	1.693	1.808	1.776	1.842	2.076	2.046	2.113	3.622	3.615	3.629
2007/3/20	1.705	1.679	1.732	1.702	1.684	1.723	1.868	1.843	1.901	2.121	2.098	2.158	3.608	3.602	3.615
2007/3/21	1.734	1.718	1.752	1.733	1.721	1.744	1.907	1.890	1.927	2.167	2.153	2.184	3.594	3.587	3.602
2007/3/22	1.737	1.718	1.751	1.737	1.726	1.755	1.919	1.897	1.945	2.180	2.166	2.196	3.579	3.571	3.587
2007/3/23	1.749	1.742	1.760	1.744	1.741	1.749	1.915	1.908	1.923	2.176	2.166	2.186	3.563	3.555	3.571
2007/3/24	1.740	1.734	1.746	1.747	1.741	1.752	1.919	1.913	1.924	2.172	2.159	2.183	3.547	3.539	3.554
2007/3/25	1.747	1.741	1.752	1.749	1.747	1.751	1.924	1.913	1.935	2.175	2.160	2.181	3.531	3.524	3.539
2007/3/26	1.731	1.715	1.746	1.752	1.749	1.758	1.935	1.932	1.940	2.186	2.177	2.192	3.517	3.510	3.524
2007/3/27	1.710	1.701	1.719	1.753	1.751	1.758	1.938	1.932	1.945	2.192	2.187	2.199	3.502	3.496	3.509
2007/3/28	1.729	1.713	1.741	1.761	1.754	1.770	1.945	1.930	1.962	2.210	2.193	2.227	3.489	3.482	3.495
2007/3/29	1.734	1.726	1.743	1.767	1.760	1.776	1.964	1.959	1.972	2.226	2.220	2.236	3.475	3.469	3.481
2007/3/30	1.744	1.740	1.747	1.766	1.762	1.770	1.967	1.962	1.976	2.225	2.217	2.236	3.462	3.455	3.468
2007/3/31	1.722	1.706	1.744	1.778	1.763	1.788	1.981	1.970	1.996	2.249	2.236	2.264	3.449	3.442	3.455
<i>Monthly</i>	1.457	0.793	1.760	1.465	0.824	1.788	1.591	0.886	1.996	1.818	0.935	2.264	3.745	3.442	4.226

Table 7-4 Water temperature data (°C) at 5 depths in Namazu Ike, April 2007

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	1.709	1.701	1.732	1.790	1.780	1.810	1.996	1.986	2.019	2.271	2.261	2.283	3.436	3.429	3.442
2007/4/2	1.708	1.698	1.717	1.804	1.797	1.815	2.011	2.002	2.025	2.285	2.275	2.299	3.423	3.418	3.429
2007/4/3	1.709	1.696	1.741	1.820	1.803	1.851	2.031	2.019	2.060	2.314	2.296	2.344	3.412	3.406	3.417
2007/4/4	1.728	1.702	1.772	1.846	1.825	1.873	2.067	2.049	2.103	2.355	2.335	2.395	3.401	3.396	3.406
2007/4/5	1.751	1.729	1.781	1.861	1.839	1.878	2.085	2.065	2.109	2.376	2.346	2.410	3.391	3.386	3.396
2007/4/6	1.766	1.735	1.813	1.884	1.863	1.909	2.102	2.086	2.127	2.398	2.379	2.430	3.381	3.377	3.386
2007/4/7	1.803	1.778	1.830	1.904	1.878	1.931	2.129	2.114	2.157	2.418	2.394	2.454	3.373	3.369	3.377
2007/4/8	1.838	1.813	1.861	1.931	1.889	1.980	2.150	2.135	2.178	2.430	2.410	2.453	3.366	3.363	3.370
2007/4/9	1.859	1.848	1.879	1.955	1.920	1.972	2.158	2.153	2.169	2.455	2.439	2.474	3.361	3.358	3.363
2007/4/10	1.824	1.788	1.870	1.925	1.911	1.938	2.170	2.163	2.181	2.468	2.462	2.481	3.356	3.354	3.358
2007/4/11	1.802	1.767	1.844	1.945	1.929	1.973	2.193	2.177	2.232	2.491	2.469	2.539	3.352	3.351	3.354
2007/4/12	1.873	1.847	1.906	1.952	1.937	1.975	2.205	2.192	2.235	2.508	2.491	2.532	3.349	3.347	3.350
2007/4/13	1.888	1.834	1.907	1.960	1.921	2.020	2.221	2.208	2.231	2.534	2.521	2.550	3.345	3.343	3.347
2007/4/14	1.898	1.888	1.916	1.983	1.965	2.020	2.234	2.226	2.254	2.537	2.525	2.560	3.341	3.340	3.343
2007/4/15	1.854	1.808	1.892	1.980	1.971	1.995	2.240	2.231	2.260	2.553	2.537	2.586	3.338	3.337	3.340
2007/4/16	1.798	1.777	1.831	1.988	1.981	1.999	2.248	2.240	2.261	2.558	2.547	2.574	3.335	3.334	3.337
2007/4/17	1.830	1.779	1.859	1.987	1.976	1.995	2.254	2.245	2.260	2.583	2.561	2.593	3.332	3.331	3.334
2007/4/18	1.845	1.809	1.870	1.992	1.987	1.998	2.260	2.253	2.266	2.561	2.546	2.577	3.330	3.329	3.331
2007/4/19	1.800	1.774	1.833	1.998	1.985	2.041	2.269	2.261	2.280	2.564	2.555	2.576	3.328	3.326	3.329
2007/4/20	1.819	1.801	1.831	2.027	1.998	2.043	2.276	2.270	2.286	2.571	2.561	2.580	3.325	3.324	3.326
2007/4/21	1.781	1.765	1.802	2.005	1.996	2.013	2.278	2.272	2.289	2.574	2.561	2.580	3.323	3.322	3.324
2007/4/22	1.772	1.757	1.793	2.007	1.999	2.023	2.279	2.274	2.288	2.573	2.559	2.594	3.321	3.320	3.322
2007/4/23	1.791	1.776	1.810	2.016	2.002	2.032	2.290	2.282	2.314	2.586	2.575	2.603	3.319	3.318	3.320
2007/4/24	1.779	1.756	1.804	2.016	2.011	2.026	2.300	2.294	2.320	2.601	2.589	2.619	3.317	3.316	3.318
2007/4/25	1.761	1.739	1.817	2.021	2.012	2.037	2.309	2.301	2.328	2.623	2.600	2.650	3.316	3.315	3.316
2007/4/26	1.740	1.716	1.776	2.026	2.018	2.043	2.316	2.308	2.338	2.643	2.625	2.674	3.314	3.313	3.315
2007/4/27	1.721	1.712	1.741	2.022	2.012	2.035	2.324	2.318	2.348	2.663	2.650	2.687	3.313	3.312	3.313
2007/4/28	1.714	1.703	1.728	2.026	2.021	2.040	2.326	2.318	2.346	2.662	2.645	2.679	3.312	3.311	3.312
2007/4/29	1.716	1.703	1.769	2.028	2.019	2.047	2.327	2.319	2.344	2.645	2.629	2.662	3.311	3.311	3.312
2007/4/30	1.714	1.691	1.743	2.036	2.021	2.048	2.333	2.327	2.343	2.647	2.638	2.657	3.311	3.310	3.311
<i>Monthly</i>	1.786	1.691	1.916	1.958	1.780	2.048	2.213	1.986	2.348	2.515	2.261	2.687	3.348	3.310	3.442

Table 7-5 Water temperature data (°C) at 5 depths in Namazu Ike, May 2007

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	1.705	1.685	1.746	2.042	2.035	2.049	2.335	2.329	2.342	2.650	2.641	2.668	3.310	3.310	3.310
2007/5/2	1.696	1.666	1.722	2.043	2.031	2.055	2.343	2.337	2.349	2.669	2.654	2.683	3.309	3.309	3.310
2007/5/3	1.681	1.665	1.721	2.048	2.037	2.053	2.348	2.338	2.356	2.666	2.658	2.675	3.309	3.308	3.309
2007/5/4	1.660	1.649	1.679	2.051	2.034	2.068	2.353	2.347	2.364	2.672	2.667	2.684	3.308	3.307	3.308
2007/5/5	1.643	1.624	1.658	2.057	2.049	2.066	2.356	2.348	2.367	2.682	2.675	2.695	3.306	3.305	3.307
2007/5/6	1.615	1.606	1.626	2.052	2.039	2.062	2.360	2.352	2.371	2.686	2.682	2.695	3.304	3.302	3.305
2007/5/7	1.630	1.619	1.650	2.068	2.044	2.087	2.366	2.363	2.372	2.689	2.683	2.701	3.302	3.300	3.303
2007/5/8	1.621	1.609	1.649	2.057	2.051	2.065	2.369	2.365	2.377	2.697	2.691	2.709	3.299	3.298	3.300
2007/5/9	1.620	1.607	1.648	2.055	2.048	2.067	2.370	2.367	2.376	2.707	2.698	2.720	3.297	3.295	3.298
2007/5/10	1.610	1.589	1.633	2.064	2.054	2.074	2.372	2.365	2.381	2.717	2.711	2.725	3.294	3.293	3.295
2007/5/11	1.583	1.565	1.623	2.057	2.041	2.066	2.375	2.370	2.381	2.722	2.717	2.733	3.293	3.291	3.294
2007/5/12	1.551	1.538	1.590	2.054	2.042	2.072	2.379	2.375	2.386	2.725	2.721	2.734	3.291	3.290	3.292
2007/5/13	1.530	1.517	1.543	2.055	2.046	2.066	2.379	2.376	2.387	2.727	2.723	2.736	3.290	3.289	3.290
2007/5/14	1.520	1.505	1.532	2.057	2.049	2.065	2.377	2.372	2.385	2.731	2.725	2.744	3.288	3.288	3.289
2007/5/15	1.511	1.501	1.524	2.072	2.061	2.083	2.379	2.375	2.387	2.734	2.728	2.743	3.287	3.286	3.288
2007/5/16	1.513	1.507	1.526	2.074	2.064	2.084	2.385	2.376	2.395	2.735	2.730	2.745	3.286	3.285	3.286
2007/5/17	1.495	1.479	1.510	2.053	2.039	2.064	2.390	2.384	2.399	2.736	2.731	2.742	3.285	3.284	3.285
2007/5/18	1.470	1.458	1.486	2.044	2.038	2.052	2.391	2.385	2.396	2.734	2.730	2.738	3.284	3.284	3.285
2007/5/19	1.455	1.437	1.472	2.059	2.051	2.066	2.391	2.381	2.396	2.731	2.727	2.735	3.284	3.284	3.284
2007/5/20	1.428	1.422	1.438	2.064	2.059	2.073	2.389	2.379	2.400	2.732	2.728	2.739	3.284	3.283	3.284
2007/5/21	1.429	1.417	1.439	2.065	2.061	2.070	2.385	2.382	2.391	2.732	2.729	2.737	3.283	3.283	3.284
2007/5/22	1.417	1.407	1.433	2.067	2.061	2.074	2.387	2.382	2.392	2.736	2.732	2.741	3.283	3.283	3.283
2007/5/23	1.413	1.398	1.441	2.071	2.064	2.074	2.382	2.375	2.387	2.735	2.731	2.750	3.283	3.282	3.283
2007/5/24	1.391	1.382	1.406	2.064	2.059	2.068	2.378	2.374	2.383	2.734	2.731	2.737	3.283	3.283	3.283
2007/5/25	1.371	1.361	1.386	2.062	2.058	2.067	2.366	2.361	2.375	2.732	2.728	2.735	3.283	3.283	3.284
2007/5/26	1.360	1.347	1.372	2.056	2.050	2.064	2.379	2.366	2.388	2.744	2.734	2.754	3.284	3.283	3.284
2007/5/27	1.348	1.321	1.375	2.051	2.036	2.067	2.392	2.387	2.398	2.769	2.755	2.780	3.284	3.283	3.284
2007/5/28	1.323	1.296	1.360	2.042	2.032	2.058	2.393	2.384	2.399	2.776	2.770	2.791	3.284	3.283	3.284
2007/5/29	1.281	1.267	1.307	2.037	2.030	2.044	2.389	2.385	2.394	2.768	2.763	2.775	3.284	3.283	3.284
2007/5/30	1.262	1.232	1.302	2.003	1.975	2.041	2.387	2.380	2.395	2.778	2.770	2.796	3.284	3.283	3.284
2007/5/31	1.210	1.189	1.249	1.991	1.983	1.997	2.388	2.382	2.394	2.773	2.764	2.790	3.284	3.284	3.285
<i>Monthly</i>	1.495	1.189	1.746	2.053	1.975	2.087	2.375	2.329	2.400	2.723	2.641	2.796	3.291	3.282	3.310

Table 7-6 Water temperature data (°C) at 5 depths in Namazu Ike, June 2007

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
Date	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	1.187	1.177	1.199	1.993	1.985	2.002	2.387	2.382	2.392	2.761	2.757	2.766	3.285	3.284	3.285
2007/6/2	1.183	1.173	1.196	2.010	1.995	2.020	2.379	2.374	2.385	2.757	2.753	2.761	3.286	3.285	3.286
2007/6/3	1.182	1.155	1.213	2.017	1.989	2.028	2.376	2.371	2.382	2.770	2.759	2.782	3.287	3.286	3.287
2007/6/4	1.162	1.149	1.189	2.016	2.005	2.032	2.369	2.363	2.377	2.763	2.756	2.774	3.288	3.287	3.288
2007/6/5	1.144	1.139	1.150	2.013	2.009	2.016	2.367	2.364	2.370	2.755	2.752	2.758	3.288	3.288	3.289
2007/6/6	1.130	1.120	1.139	2.011	2.006	2.017	2.365	2.361	2.367	2.755	2.751	2.761	3.289	3.289	3.289
2007/6/7	1.116	1.110	1.126	2.006	1.997	2.017	2.361	2.356	2.364	2.754	2.749	2.761	3.289	3.289	3.290
2007/6/8	1.101	1.088	1.123	2.002	1.996	2.025	2.361	2.356	2.374	2.751	2.744	2.773	3.289	3.289	3.290
2007/6/9	1.080	1.067	1.103	2.001	1.995	2.016	2.367	2.362	2.375	2.752	2.747	2.769	3.289	3.289	3.290
2007/6/10	1.064	1.050	1.073	1.993	1.990	2.000	2.359	2.353	2.365	2.761	2.751	2.768	3.289	3.288	3.289
2007/6/11	1.058	1.039	1.089	1.988	1.973	2.001	2.352	2.338	2.359	2.773	2.763	2.789	3.288	3.288	3.289
2007/6/12	1.042	1.027	1.085	1.992	1.982	1.999	2.349	2.343	2.360	2.768	2.763	2.777	3.287	3.287	3.288
2007/6/13	1.028	1.018	1.043	1.989	1.970	1.999	2.350	2.346	2.361	2.767	2.760	2.786	3.286	3.286	3.287
2007/6/14	1.023	1.004	1.054	1.990	1.966	2.002	2.355	2.345	2.363	2.775	2.769	2.784	3.285	3.284	3.286
2007/6/15	1.003	0.989	1.022	1.988	1.966	1.996	2.351	2.342	2.363	2.767	2.759	2.781	3.284	3.283	3.285
2007/6/16	0.981	0.972	0.990	1.977	1.955	1.991	2.339	2.336	2.344	2.759	2.754	2.765	3.283	3.282	3.284
2007/6/17	0.960	0.946	0.973	1.940	1.925	1.955	2.337	2.332	2.340	2.753	2.749	2.758	3.282	3.281	3.282
2007/6/18	0.928	0.913	0.946	1.925	1.921	1.931	2.334	2.330	2.340	2.747	2.741	2.753	3.280	3.279	3.281
2007/6/19	0.915	0.893	0.949	1.936	1.898	1.953	2.333	2.325	2.344	2.767	2.741	2.802	3.279	3.278	3.280
2007/6/20	0.901	0.876	0.934	1.936	1.905	1.961	2.336	2.322	2.345	2.786	2.771	2.807	3.277	3.276	3.278
2007/6/21	0.878	0.869	0.915	1.945	1.938	1.957	2.333	2.325	2.338	2.778	2.770	2.787	3.276	3.275	3.277
2007/6/22	0.868	0.862	0.873	1.940	1.937	1.947	2.328	2.324	2.336	2.773	2.764	2.782	3.274	3.273	3.275
2007/6/23	0.856	0.850	0.862	1.936	1.927	1.942	2.330	2.327	2.333	2.770	2.766	2.775	3.272	3.271	3.273
2007/6/24	0.842	0.833	0.850	1.922	1.919	1.928	2.334	2.327	2.341	2.775	2.772	2.777	3.270	3.269	3.271
2007/6/25	0.830	0.819	0.847	1.921	1.904	1.934	2.344	2.335	2.353	2.773	2.765	2.791	3.268	3.267	3.269
2007/6/26	0.820	0.799	0.853	1.922	1.904	1.933	2.338	2.330	2.350	2.767	2.760	2.778	3.266	3.265	3.267
2007/6/27	0.799	0.789	0.823	1.911	1.903	1.925	2.340	2.333	2.345	2.766	2.760	2.774	3.264	3.263	3.265
2007/6/28	0.783	0.774	0.790	1.900	1.896	1.904	2.350	2.344	2.353	2.780	2.773	2.790	3.262	3.261	3.263
2007/6/29	0.774	0.766	0.789	1.897	1.878	1.907	2.350	2.347	2.353	2.789	2.782	2.804	3.260	3.259	3.261
2007/6/30	0.764	0.757	0.771	1.890	1.885	1.896	2.348	2.346	2.349	2.779	2.776	2.784	3.258	3.256	3.259
<i>Monthly</i>	0.980	0.757	1.213	1.964	1.878	2.032	2.351	2.322	2.392	2.766	2.741	2.807	3.279	3.256	3.290

Table 7-7 Water temperature data (°C) at 5 depths in Namazu Ike, July 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	0.752	0.746	0.759	1.886	1.883	1.892	2.348	2.341	2.352	2.775	2.762	2.783	3.255	3.254	3.257
2007/7/2	0.745	0.739	0.752	1.876	1.870	1.884	2.343	2.340	2.345	2.761	2.753	2.764	3.253	3.252	3.254
2007/7/3	0.732	0.721	0.743	1.870	1.867	1.874	2.342	2.338	2.348	2.771	2.747	2.785	3.251	3.250	3.252
2007/7/4	0.717	0.707	0.724	1.864	1.858	1.870	2.349	2.347	2.352	2.777	2.767	2.784	3.248	3.247	3.250
2007/7/5	0.704	0.691	0.718	1.857	1.853	1.868	2.351	2.349	2.353	2.763	2.756	2.772	3.246	3.245	3.247
2007/7/6	0.693	0.675	0.707	1.850	1.844	1.859	2.351	2.345	2.353	2.776	2.766	2.785	3.244	3.243	3.245
2007/7/7	0.685	0.679	0.699	1.845	1.836	1.854	2.343	2.340	2.351	2.787	2.783	2.791	3.241	3.240	3.243
2007/7/8	0.677	0.666	0.695	1.842	1.837	1.849	2.342	2.337	2.354	2.789	2.786	2.794	3.239	3.238	3.240
2007/7/9	0.667	0.655	0.686	1.845	1.840	1.856	2.346	2.338	2.357	2.789	2.786	2.795	3.236	3.235	3.238
2007/7/10	0.660	0.654	0.667	1.835	1.830	1.845	2.334	2.332	2.336	2.790	2.784	2.796	3.234	3.232	3.235
2007/7/11	0.650	0.642	0.662	1.830	1.827	1.834	2.335	2.331	2.338	2.786	2.777	2.792	3.231	3.230	3.232
2007/7/12	0.638	0.631	0.646	1.825	1.821	1.829	2.331	2.328	2.336	2.772	2.766	2.781	3.228	3.227	3.230
2007/7/13	0.628	0.621	0.635	1.818	1.815	1.823	2.340	2.335	2.345	2.772	2.766	2.776	3.225	3.224	3.227
2007/7/14	0.618	0.612	0.624	1.814	1.808	1.819	2.344	2.341	2.348	2.774	2.769	2.777	3.222	3.221	3.224
2007/7/15	0.610	0.602	0.616	1.803	1.793	1.811	2.347	2.344	2.350	2.778	2.775	2.782	3.219	3.218	3.221
2007/7/16	0.589	0.576	0.602	1.779	1.769	1.793	2.340	2.336	2.344	2.785	2.779	2.790	3.217	3.215	3.218
2007/7/17	0.567	0.560	0.575	1.769	1.765	1.776	2.332	2.319	2.342	2.790	2.786	2.792	3.214	3.212	3.215
2007/7/18	0.561	0.556	0.567	1.769	1.764	1.775	2.324	2.318	2.331	2.787	2.784	2.792	3.211	3.209	3.212
2007/7/19	0.552	0.543	0.557	1.770	1.764	1.775	2.334	2.328	2.338	2.787	2.784	2.792	3.208	3.207	3.209
2007/7/20	0.540	0.534	0.548	1.769	1.763	1.774	2.332	2.329	2.335	2.786	2.782	2.790	3.206	3.204	3.207
2007/7/21	0.529	0.519	0.534	1.764	1.759	1.770	2.328	2.324	2.336	2.783	2.777	2.789	3.203	3.202	3.204
2007/7/22	0.507	0.493	0.527	1.770	1.758	1.785	2.332	2.323	2.340	2.792	2.776	2.808	3.201	3.199	3.202
2007/7/23	0.496	0.484	0.512	1.773	1.765	1.782	2.341	2.334	2.353	2.799	2.790	2.808	3.198	3.197	3.199
2007/7/24	0.485	0.471	0.501	1.769	1.758	1.782	2.342	2.334	2.350	2.809	2.802	2.817	3.196	3.194	3.197
2007/7/25	0.472	0.450	0.503	1.763	1.752	1.772	2.337	2.329	2.344	2.817	2.807	2.838	3.193	3.192	3.195
2007/7/26	0.453	0.444	0.473	1.763	1.757	1.774	2.339	2.333	2.346	2.814	2.809	2.824	3.191	3.190	3.192
2007/7/27	0.445	0.438	0.451	1.750	1.743	1.758	2.334	2.329	2.344	2.806	2.798	2.813	3.189	3.188	3.190
2007/7/28	0.433	0.424	0.444	1.745	1.740	1.752	2.341	2.334	2.351	2.803	2.798	2.811	3.187	3.186	3.188
2007/7/29	0.426	0.418	0.431	1.741	1.735	1.749	2.344	2.339	2.358	2.797	2.790	2.806	3.185	3.184	3.186
2007/7/30	0.415	0.401	0.425	1.733	1.727	1.745	2.344	2.336	2.356	2.791	2.786	2.800	3.182	3.181	3.184
2007/7/31	0.396	0.381	0.407	1.727	1.722	1.732	2.334	2.326	2.341	2.800	2.792	2.810	3.180	3.179	3.181
<i>Monthly</i>	0.582	0.381	0.759	1.800	1.722	1.892	2.339	2.318	2.358	2.787	2.747	2.838	3.217	3.179	3.257

Table 7-8 Water temperature data (°C) at 5 depths in Namazu Ike, August 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	0.386	0.377	0.393	1.720	1.714	1.728	2.331	2.325	2.342	2.794	2.786	2.802	3.177	3.176	3.179
2007/8/2	0.375	0.366	0.382	1.716	1.710	1.725	2.341	2.334	2.353	2.785	2.778	2.791	3.175	3.173	3.176
2007/8/3	0.362	0.353	0.371	1.710	1.704	1.716	2.342	2.338	2.346	2.779	2.774	2.785	3.172	3.171	3.173
2007/8/4	0.347	0.338	0.356	1.705	1.701	1.715	2.340	2.334	2.353	2.771	2.766	2.777	3.169	3.168	3.171
2007/8/5	0.325	0.304	0.339	1.704	1.698	1.712	2.338	2.334	2.343	2.771	2.766	2.780	3.167	3.166	3.168
2007/8/6	0.300	0.291	0.321	1.706	1.697	1.719	2.339	2.331	2.348	2.787	2.778	2.801	3.165	3.164	3.166
2007/8/7	0.300	0.288	0.310	1.704	1.698	1.712	2.350	2.344	2.368	2.795	2.790	2.805	3.163	3.162	3.164
2007/8/8	0.301	0.296	0.308	1.709	1.704	1.723	2.352	2.342	2.376	2.796	2.790	2.812	3.161	3.160	3.162
2007/8/9	0.292	0.280	0.301	1.700	1.686	1.711	2.350	2.343	2.362	2.795	2.790	2.803	3.159	3.158	3.160
2007/8/10	0.272	0.261	0.284	1.685	1.678	1.704	2.350	2.341	2.375	2.799	2.794	2.813	3.157	3.156	3.158
2007/8/11	0.257	0.248	0.262	1.684	1.681	1.687	2.344	2.341	2.347	2.791	2.785	2.796	3.156	3.155	3.156
2007/8/12	0.242	0.236	0.249	1.683	1.679	1.687	2.345	2.341	2.348	2.785	2.782	2.788	3.154	3.154	3.155
2007/8/13	0.231	0.220	0.236	1.683	1.678	1.701	2.349	2.342	2.356	2.789	2.783	2.799	3.153	3.152	3.154
2007/8/14	0.224	0.212	0.235	1.685	1.680	1.699	2.356	2.351	2.362	2.799	2.793	2.808	3.152	3.151	3.153
2007/8/15	0.215	0.209	0.223	1.682	1.676	1.689	2.358	2.347	2.375	2.802	2.796	2.814	3.151	3.150	3.152
2007/8/16	0.206	0.192	0.224	1.684	1.675	1.702	2.361	2.349	2.372	2.810	2.801	2.822	3.150	3.149	3.151
2007/8/17	0.194	0.186	0.222	1.681	1.677	1.693	2.366	2.360	2.370	2.804	2.796	2.812	3.149	3.148	3.149
2007/8/18	0.191	0.179	0.210	1.688	1.680	1.702	2.369	2.361	2.378	2.818	2.805	2.828	3.148	3.147	3.148
2007/8/19	0.186	0.177	0.194	1.675	1.662	1.692	2.381	2.371	2.408	2.836	2.824	2.862	3.147	3.146	3.147
2007/8/20	0.168	0.159	0.177	1.658	1.648	1.674	2.384	2.373	2.411	2.843	2.835	2.859	3.146	3.145	3.147
2007/8/21	0.149	0.139	0.157	1.654	1.650	1.657	2.380	2.375	2.385	2.841	2.837	2.845	3.145	3.145	3.145
2007/8/22	0.138	0.127	0.143	1.653	1.647	1.668	2.376	2.370	2.382	2.845	2.841	2.849	3.144	3.144	3.145
2007/8/23	0.136	0.125	0.150	1.662	1.649	1.683	2.388	2.374	2.416	2.845	2.833	2.866	3.144	3.144	3.144
2007/8/24	0.129	0.119	0.143	1.666	1.653	1.686	2.396	2.386	2.420	2.851	2.837	2.874	3.144	3.144	3.144
2007/8/25	0.120	0.109	0.133	1.668	1.659	1.685	2.405	2.392	2.434	2.867	2.853	2.889	3.144	3.144	3.144
2007/8/26	0.105	0.092	0.119	1.655	1.641	1.670	2.419	2.404	2.446	2.887	2.869	2.916	3.144	3.144	3.144
2007/8/27	0.095	0.085	0.115	1.663	1.647	1.690	2.430	2.415	2.463	2.892	2.879	2.915	3.144	3.144	3.145
2007/8/28	0.087	0.075	0.108	1.673	1.659	1.695	2.436	2.423	2.468	2.900	2.883	2.933	3.145	3.145	3.146
2007/8/29	0.078	0.068	0.100	1.684	1.670	1.709	2.446	2.431	2.479	2.911	2.895	2.940	3.147	3.146	3.148
2007/8/30	0.065	0.058	0.072	1.680	1.673	1.689	2.447	2.442	2.458	2.910	2.904	2.916	3.148	3.147	3.149
2007/8/31	0.052	0.043	0.059	1.659	1.651	1.672	2.456	2.451	2.459	2.908	2.905	2.915	3.150	3.149	3.152
<i>Monthly</i>	0.211	0.043	0.393	1.683	1.641	1.728	2.375	2.325	2.479	2.826	2.766	2.940	3.154	3.144	3.179

Table 7-9 Water temperature data (°C) at 5 depths in Namazu Ike, September 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/9/1	0.040	0.034	0.046	1.659	1.655	1.664	2.451	2.447	2.455	2.907	2.902	2.912	3.153	3.152	3.154
2007/9/2	0.032	0.025	0.036	1.656	1.651	1.663	2.455	2.447	2.458	2.905	2.902	2.908	3.156	3.154	3.157
2007/9/3	0.021	0.015	0.027	1.651	1.647	1.656	2.457	2.452	2.460	2.906	2.903	2.911	3.158	3.157	3.159
2007/9/4	0.011	0.005	0.016	1.649	1.645	1.651	2.454	2.451	2.456	2.906	2.902	2.908	3.160	3.159	3.161
2007/9/5	0.001	-0.006	0.006	1.644	1.638	1.649	2.456	2.453	2.459	2.905	2.901	2.909	3.161	3.160	3.162
2007/9/6	-0.008	-0.014	-0.002	1.639	1.634	1.646	2.453	2.449	2.456	2.906	2.901	2.913	3.162	3.162	3.163
2007/9/7	-0.012	-0.016	-0.006	1.643	1.636	1.651	2.457	2.450	2.463	2.910	2.905	2.914	3.163	3.162	3.163
2007/9/8	-0.015	-0.020	-0.012	1.649	1.638	1.666	2.465	2.459	2.474	2.913	2.907	2.922	3.164	3.163	3.164
2007/9/9	-0.020	-0.023	-0.016	1.662	1.646	1.685	2.484	2.472	2.507	2.930	2.913	2.957	3.164	3.164	3.164
2007/9/10	-0.025	-0.031	-0.022	1.674	1.662	1.695	2.506	2.492	2.529	2.956	2.938	2.989	3.164	3.164	3.165
2007/9/11	-0.041	-0.059	-0.030	1.676	1.656	1.711	2.526	2.510	2.558	2.981	2.964	3.025	3.165	3.165	3.165
2007/9/12	-0.084	-0.117	-0.060	1.693	1.674	1.716	2.544	2.525	2.587	3.004	2.985	3.055	3.166	3.165	3.167
2007/9/13	-0.132	-0.165	-0.101	1.710	1.681	1.754	2.562	2.535	2.623	3.027	3.006	3.094	3.167	3.166	3.168
2007/9/14	-0.175	-0.209	-0.142	1.737	1.704	1.782	2.582	2.553	2.634	3.045	3.020	3.100	3.169	3.168	3.171
2007/9/15	-0.212	-0.248	-0.163	1.765	1.725	1.817	2.606	2.569	2.665	3.069	3.045	3.134	3.172	3.171	3.174
2007/9/16	-0.246	-0.286	-0.167	1.795	1.755	1.859	2.644	2.604	2.731	3.099	3.074	3.135	3.176	3.174	3.179
2007/9/17	-0.289	-0.325	-0.238	1.819	1.783	1.867	2.679	2.646	2.766	3.161	3.138	3.194	3.181	3.178	3.184
2007/9/18	-0.317	-0.355	-0.236	1.853	1.813	1.917	2.719	2.680	2.881	3.185	3.162	3.242	3.187	3.184	3.190
2007/9/19	-0.352	-0.392	-0.266	1.880	1.840	1.942	2.740	2.707	2.834	3.211	3.175	3.275	3.194	3.191	3.198
2007/9/20	-0.388	-0.436	-0.305	1.908	1.869	1.971	2.763	2.722	2.844	3.260	3.211	3.320	3.202	3.198	3.206
2007/9/21	-0.448	-0.501	-0.388	1.926	1.893	1.972	2.790	2.766	2.830	3.303	3.272	3.363	3.211	3.206	3.215
2007/9/22	-0.505	-0.572	-0.424	1.967	1.923	2.034	2.827	2.781	2.903	3.347	3.320	3.423	3.220	3.215	3.225
2007/9/23	-0.577	-0.654	-0.451	1.999	1.950	2.087	2.863	2.827	2.966	3.350	3.304	3.439	3.231	3.225	3.236
2007/9/24	-0.677	-0.766	-0.563	2.039	1.991	2.119	2.900	2.844	3.045	3.378	3.346	3.456	3.242	3.236	3.248
2007/9/25	-0.801	-0.887	-0.719	2.076	2.027	2.135	2.943	2.891	3.038	3.425	3.389	3.478	3.254	3.248	3.260
2007/9/26	-0.879	-0.946	-0.712	2.123	2.070	2.213	2.996	2.935	3.219	3.438	3.394	3.547	3.267	3.261	3.274
2007/9/27	-0.914	-0.992	-0.717	2.164	2.108	2.246	3.034	2.971	3.254	3.509	3.459	3.578	3.282	3.275	3.289
2007/9/28	-0.943	-1.028	-0.733	2.212	2.147	2.299	3.067	3.008	3.241	3.592	3.541	3.694	3.296	3.289	3.304
2007/9/29	-1.004	-1.082	-0.767	2.256	2.194	2.325	3.089	3.041	3.162	3.610	3.547	3.736	3.311	3.304	3.318
2007/9/30	-1.076	-1.148	-0.890	2.298	2.242	2.378	3.127	3.080	3.201	3.557	3.523	3.615	3.326	3.318	3.333
<i>Monthly</i>	-0.335	-1.148	0.046	1.847	1.634	2.378	2.688	2.447	3.254	3.157	2.901	3.736	3.201	3.152	3.333

Table 7-10 Water temperature data (°C) at 5 depths in Namazu Ike, October 2007

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/10/1	-1.185	-1.237	-1.149	2.314	2.281	2.339	3.144	3.118	3.176	3.557	3.535	3.585	3.340	3.333	3.347
2007/10/2	-1.229	-1.274	-1.123	2.338	2.304	2.401	3.173	3.140	3.245	3.592	3.556	3.641	3.355	3.348	3.362
2007/10/3	-1.245	-1.301	-1.130	2.393	2.353	2.455	3.211	3.172	3.301	3.703	3.627	3.835	3.369	3.362	3.376
2007/10/4	-1.255	-1.280	-1.223	2.378	2.363	2.390	3.220	3.211	3.232	3.936	3.830	3.986	3.383	3.376	3.390
2007/10/5	-1.203	-1.239	-1.162	2.386	2.373	2.400	3.250	3.211	3.281	3.893	3.865	3.933	3.397	3.390	3.403
2007/10/6	-1.045	-1.189	-0.684	2.436	2.387	2.494	3.300	3.271	3.375	3.918	3.860	4.000	3.410	3.404	3.416
2007/10/7	-0.942	-1.123	-0.545	2.531	2.460	2.665	3.378	3.287	3.586	4.002	3.832	4.407	3.423	3.416	3.429
2007/10/8	-1.002	-1.071	-0.887	2.535	2.505	2.600	3.371	3.331	3.436	4.371	4.255	4.396	3.435	3.429	3.440
2007/10/9	-1.023	-1.112	-0.895	2.587	2.551	2.639	3.416	3.393	3.455	4.367	4.347	4.398	3.446	3.440	3.451
2007/10/10	-0.806	-1.104	-0.341	2.689	2.580	2.877	3.531	3.438	3.698	4.373	4.341	4.422	3.457	3.451	3.463
2007/10/11	-0.586	-0.929	-0.166	2.798	2.683	3.040	3.606	3.493	3.879	4.388	4.265	4.457	3.469	3.463	3.474
2007/10/12	-0.494	-0.771	-0.136	2.916	2.789	3.213	3.984	3.601	4.365	4.288	4.207	4.391	3.480	3.474	3.486
2007/10/13	-0.592	-0.721	-0.382	2.940	2.817	3.094	4.257	4.161	4.329	4.255	4.184	4.387	3.491	3.486	3.497
2007/10/14	-0.435	-0.781	-0.083	3.082	2.895	3.479	4.198	4.085	4.349	4.186	4.111	4.297	3.503	3.497	3.508
2007/10/15	-0.544	-0.659	-0.282	3.517	3.020	4.132	4.137	4.078	4.207	4.147	4.110	4.219	3.514	3.508	3.519
2007/10/16	-0.724	-0.753	-0.668	4.084	3.971	4.114	4.103	4.075	4.130	4.106	4.062	4.136	3.524	3.519	3.530
2007/10/17	-0.748	-0.766	-0.724	4.043	4.015	4.068	4.059	4.027	4.083	4.075	4.044	4.109	3.534	3.530	3.539
2007/10/18	-0.670	-0.754	-0.512	4.008	3.976	4.072	4.021	4.000	4.050	4.045	4.017	4.113	3.543	3.539	3.547
2007/10/19	-0.340	-0.692	-0.024	4.070	3.956	4.258	4.077	3.990	4.201	4.094	4.021	4.209	3.550	3.547	3.553
2007/10/20	-0.085	-0.224	-0.007	4.142	4.029	4.333	4.162	4.062	4.333	4.138	4.077	4.256	3.556	3.553	3.558
2007/10/21	-0.030	-0.107	0.007	4.201	4.116	4.298	4.187	4.122	4.274	4.140	4.057	4.217	3.561	3.558	3.563
2007/10/22	-0.102	-0.176	-0.046	4.140	4.095	4.182	4.148	4.112	4.180	4.125	4.105	4.142	3.565	3.563	3.568
2007/10/23	-0.345	-0.541	-0.130	4.086	4.065	4.105	4.100	4.083	4.120	4.080	4.061	4.111	3.571	3.568	3.574
2007/10/24	-0.609	-0.626	-0.550	4.053	4.023	4.071	4.056	4.018	4.085	4.051	4.030	4.080	3.576	3.573	3.579
2007/10/25	-0.617	-0.630	-0.602	3.999	3.957	4.026	4.011	3.985	4.026	4.024	4.000	4.038	3.582	3.579	3.584
2007/10/26	-0.590	-0.610	-0.568	3.988	3.944	4.006	4.005	3.978	4.019	4.014	3.989	4.039	3.586	3.584	3.588
2007/10/27	-0.542	-0.575	-0.504	4.060	3.986	4.122	4.084	4.004	4.168	4.076	4.006	4.150	3.589	3.588	3.590
2007/10/28	-0.535	-0.548	-0.519	4.081	4.053	4.114	4.092	4.080	4.103	4.090	4.060	4.112	3.591	3.590	3.592
2007/10/29	-0.553	-0.571	-0.526	4.080	4.061	4.103	4.080	4.038	4.100	4.050	4.028	4.075	3.592	3.592	3.593
2007/10/30	-0.555	-0.589	-0.505	4.072	3.999	4.104	4.056	3.998	4.121	4.064	4.006	4.149	3.594	3.593	3.594
2007/10/31	-0.553	-0.586	-0.512	4.122	3.989	4.197	4.131	4.071	4.189	4.129	4.082	4.193	3.595	3.594	3.596
Monthly	-0.683	-1.301	0.007	3.389	2.281	4.333	3.824	3.118	4.365	4.073	3.535	4.457	3.503	3.333	3.596

Table 7-11 Water temperature data (°C) at 5 depths in Namazu Ike, November 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/11/1	-0.557	-0.573	-0.537	4.219	4.142	4.265	4.204	4.155	4.254	4.194	4.156	4.242	3.597	3.596	3.598
2007/11/2	-0.523	-0.556	-0.481	4.256	4.199	4.320	4.256	4.195	4.336	4.242	4.192	4.313	3.599	3.598	3.601
2007/11/3	-0.489	-0.530	-0.437	4.308	4.249	4.397	4.312	4.269	4.390	4.303	4.275	4.340	3.602	3.600	3.604
2007/11/4	-0.469	-0.509	-0.418	4.383	4.315	4.428	4.384	4.340	4.449	4.358	4.286	4.441	3.605	3.604	3.607
2007/11/5	-0.457	-0.500	-0.404	4.452	4.397	4.534	4.456	4.415	4.521	4.456	4.410	4.511	3.609	3.607	3.611
2007/11/6	-0.440	-0.496	-0.371	4.580	4.530	4.661	4.583	4.515	4.698	4.566	4.516	4.656	3.614	3.611	3.616
2007/11/7	-0.429	-0.489	-0.354	4.675	4.599	4.770	4.691	4.621	4.795	4.682	4.619	4.780	3.620	3.616	3.623
2007/11/8	-0.417	-0.479	-0.345	4.765	4.715	4.835	4.781	4.722	4.882	4.781	4.729	4.853	3.627	3.623	3.630
2007/11/9	-0.386	-0.456	-0.303	4.840	4.794	4.891	4.872	4.814	4.934	4.873	4.821	4.932	3.635	3.630	3.640
2007/11/10	-0.349	-0.418	-0.268	4.904	4.858	4.960	4.934	4.879	5.013	4.934	4.893	5.003	3.645	3.640	3.651
2007/11/11	-0.306	-0.376	-0.222	4.968	4.923	5.021	4.996	4.943	5.063	5.002	4.956	5.074	3.657	3.651	3.663
2007/11/12	-0.270	-0.340	-0.186	5.030	4.987	5.095	5.056	5.008	5.134	5.064	5.023	5.131	3.670	3.664	3.677
2007/11/13	-0.239	-0.312	-0.153	5.092	5.045	5.153	5.123	5.066	5.205	5.131	5.083	5.197	3.685	3.677	3.692
2007/11/14	-0.212	-0.287	-0.124	5.149	5.109	5.206	5.181	5.128	5.251	5.190	5.143	5.251	3.701	3.693	3.708
2007/11/15	-0.187	-0.263	-0.102	5.211	5.167	5.287	5.235	5.186	5.315	5.241	5.203	5.304	3.717	3.709	3.725
2007/11/16	-0.161	-0.242	-0.076	5.268	5.218	5.343	5.290	5.241	5.392	5.301	5.259	5.368	3.735	3.726	3.743
2007/11/17	-0.136	-0.215	-0.060	5.328	5.285	5.387	5.354	5.309	5.420	5.361	5.318	5.432	3.753	3.744	3.762
2007/11/18	-0.113	-0.188	-0.048	5.377	5.336	5.435	5.407	5.360	5.484	5.415	5.374	5.476	3.772	3.762	3.782
2007/11/19	-0.084	-0.152	-0.034	5.422	5.379	5.483	5.450	5.404	5.531	5.461	5.420	5.527	3.792	3.782	3.802
2007/11/20	-0.046	-0.085	-0.016	5.469	5.427	5.533	5.495	5.449	5.568	5.502	5.467	5.565	3.813	3.803	3.823
2007/11/21	-0.026	-0.044	-0.015	5.513	5.465	5.566	5.545	5.496	5.612	5.550	5.507	5.607	3.834	3.823	3.844
2007/11/22	-0.021	-0.028	-0.013	5.539	5.521	5.581	5.564	5.540	5.614	5.574	5.554	5.635	3.855	3.844	3.865
2007/11/23	-0.019	-0.024	-0.013	5.525	5.506	5.564	5.551	5.531	5.602	5.563	5.543	5.596	3.876	3.865	3.887
2007/11/24	-0.017	-0.027	-0.007	5.522	5.476	5.603	5.554	5.506	5.641	5.559	5.512	5.650	3.898	3.887	3.908
2007/11/25	-0.016	-0.019	-0.013	5.566	5.538	5.622	5.588	5.557	5.640	5.599	5.568	5.660	3.919	3.908	3.929
2007/11/26	-0.015	-0.018	-0.009	5.567	5.530	5.651	5.594	5.555	5.658	5.604	5.572	5.661	3.940	3.930	3.950
2007/11/27	0.058	-0.017	0.290	5.584	5.517	5.658	5.606	5.566	5.681	5.619	5.569	5.685	3.961	3.951	3.971
2007/11/28	0.830	0.293	1.703	5.618	5.573	5.698	5.643	5.592	5.717	5.648	5.602	5.728	3.981	3.971	3.991
2007/11/29	3.080	1.263	5.488	5.631	5.578	5.694	5.656	5.626	5.728	5.662	5.630	5.726	4.002	3.992	4.012
2007/11/30	4.195	2.791	5.568	5.644	5.597	5.726	5.667	5.628	5.779	5.672	5.634	5.736	4.022	4.012	4.032
<i>Monthly</i>	0.059	-0.573	5.568	5.114	4.142	5.726	5.134	4.155	5.779	5.137	4.156	5.736	3.758	3.596	4.032

Table 7-12 Water temperature data (°C) at 5 depths in Namazu Ike, December 2007

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2007/12/1	5.210	4.355	5.588	5.600	5.549	5.644	5.626	5.584	5.663	5.632	5.596	5.671	4.043	4.033	4.053
2007/12/2	5.238	4.473	5.508	5.522	5.459	5.567	5.545	5.491	5.586	5.557	5.506	5.598	4.063	4.053	4.073
2007/12/3	5.304	4.615	5.468	5.445	5.411	5.533	5.471	5.426	5.568	5.475	5.444	5.533	4.083	4.073	4.092
2007/12/4	5.155	4.637	5.486	5.439	5.372	5.521	5.459	5.393	5.563	5.456	5.402	5.545	4.102	4.093	4.111
2007/12/5	5.366	5.057	5.441	5.412	5.373	5.446	5.435	5.403	5.490	5.439	5.415	5.482	4.121	4.112	4.129
2007/12/6	5.337	5.166	5.378	5.359	5.324	5.417	5.377	5.350	5.422	5.384	5.351	5.421	4.138	4.129	4.146
2007/12/7	5.292	5.111	5.356	5.317	5.261	5.381	5.335	5.297	5.403	5.342	5.307	5.388	4.154	4.146	4.161
2007/12/8	5.324	5.014	5.452	5.370	5.294	5.468	5.383	5.313	5.503	5.375	5.314	5.485	4.168	4.161	4.175
2007/12/9	5.436	5.254	5.531	5.460	5.386	5.570	5.479	5.405	5.598	5.469	5.388	5.585	4.181	4.175	4.187
2007/12/10	5.487	5.443	5.530	5.498	5.465	5.545	5.516	5.487	5.562	5.518	5.485	5.552	4.193	4.188	4.199
2007/12/11	5.475	5.403	5.524	5.487	5.439	5.541	5.504	5.469	5.558	5.518	5.481	5.578	4.205	4.199	4.211
2007/12/12	5.479	5.388	5.548	5.495	5.445	5.578	5.504	5.471	5.595	5.515	5.475	5.571	4.216	4.211	4.222
2007/12/13	5.434	5.339	5.509	5.442	5.390	5.507	5.462	5.418	5.539	5.467	5.402	5.521	4.228	4.223	4.234
2007/12/14	5.283	5.163	5.391	5.293	5.181	5.399	5.306	5.203	5.414	5.256	5.011	5.400	4.240	4.234	4.246
2007/12/15	5.191	5.145	5.278	5.200	5.153	5.263	5.205	5.114	5.280	5.156	5.028	5.254	4.253	4.247	4.259
2007/12/16	5.214	5.144	5.316	5.224	5.156	5.313	5.232	5.174	5.368	5.231	5.170	5.327	4.265	4.259	4.270
2007/12/17	5.255	5.154	5.395	5.263	5.197	5.373	5.273	5.208	5.369	5.272	5.202	5.367	4.276	4.271	4.280
2007/12/18	5.266	5.207	5.325	5.273	5.217	5.364	5.283	5.238	5.373	5.266	5.185	5.370	4.285	4.280	4.289
2007/12/19	5.202	5.139	5.284	5.208	5.160	5.284	5.226	5.183	5.273	5.229	5.189	5.269	4.293	4.289	4.297
2007/12/20	5.032	4.915	5.220	5.035	4.901	5.197	5.050	4.886	5.220	5.036	4.818	5.233	4.301	4.297	4.305
2007/12/21	4.872	4.763	5.001	4.863	4.728	4.984	4.861	4.785	4.947	4.830	4.741	4.921	4.309	4.306	4.312
2007/12/22	4.879	4.711	5.030	4.884	4.778	5.006	4.861	4.766	4.991	4.844	4.741	4.966	4.316	4.313	4.319
2007/12/23	4.865	4.688	5.055	4.858	4.622	4.977	4.863	4.675	4.963	4.831	4.639	4.926	4.320	4.319	4.322
2007/12/24	4.651	4.572	4.779	4.646	4.572	4.781	4.661	4.623	4.722	4.657	4.597	4.718	4.324	4.322	4.326
2007/12/25	4.561	4.458	4.640	4.559	4.473	4.623	4.576	4.438	4.640	4.566	4.450	4.645	4.327	4.325	4.327
2007/12/26	4.487	4.309	4.579	4.488	4.404	4.548	4.501	4.409	4.545	4.504	4.422	4.546	4.327	4.327	4.328
2007/12/27	4.467	4.264	4.569	4.451	4.289	4.515	4.459	4.374	4.515	4.445	4.393	4.546	4.326	4.324	4.327
2007/12/28	4.387	4.145	4.493	4.399	4.263	4.479	4.415	4.318	4.467	4.411	4.353	4.449	4.322	4.319	4.324
2007/12/29	4.376	4.078	4.446	4.392	4.269	4.486	4.392	4.337	4.427	4.408	4.351	4.473	4.316	4.312	4.319
2007/12/30	4.367	4.179	4.563	4.374	4.256	4.503	4.384	4.319	4.456	4.398	4.367	4.451	4.309	4.305	4.312
2007/12/31	4.451	4.306	4.626	4.409	4.332	4.499	4.392	4.341	4.492	4.375	4.309	4.498	4.301	4.297	4.305
<i>Monthly</i>	5.043	4.078	5.588	5.086	4.256	5.644	5.098	4.318	5.663	5.092	4.309	5.671	4.236	4.033	4.328

Table 7-13 Water temperature data (°C) at 5 depths in Namazu Ike, January 2008

Depth Date	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	4.427	4.340	4.528	4.424	4.323	4.497	4.427	4.329	4.534	4.425	4.333	4.531	4.293	4.289	4.297
2008/1/2	4.413	4.284	4.569	4.395	4.302	4.458	4.388	4.348	4.434	4.387	4.350	4.439	4.285	4.281	4.289
2008/1/3	4.385	4.237	4.505	4.371	4.282	4.447	4.347	4.279	4.389	4.338	4.272	4.387	4.277	4.273	4.281
2008/1/4	4.378	4.167	4.548	4.356	4.217	4.510	4.333	4.281	4.403	4.318	4.283	4.358	4.269	4.265	4.273
2008/1/5	4.398	4.210	4.639	4.343	4.210	4.464	4.329	4.204	4.404	4.314	4.249	4.373	4.261	4.257	4.265
2008/1/6	4.342	4.174	4.598	4.316	4.195	4.486	4.314	4.243	4.378	4.311	4.238	4.353	4.252	4.248	4.257
2008/1/7	3.764	2.723	4.281	3.781	2.802	4.264	3.859	2.985	4.303	3.883	3.008	4.315	4.243	4.238	4.248
2008/1/8	2.576	2.393	2.750	2.616	2.412	2.921	2.666	2.508	2.999	2.704	2.506	3.043	4.234	4.229	4.238
2008/1/9	2.687	2.493	2.906	2.708	2.544	2.938	2.785	2.606	3.073	2.861	2.646	3.248	4.224	4.217	4.229
2008/1/10	2.776	2.684	2.841	2.809	2.675	2.885	2.878	2.748	3.037	3.018	2.832	3.262	4.209	4.200	4.217
2008/1/11	2.558	2.408	2.775	2.566	2.405	2.772	2.605	2.429	2.826	2.633	2.474	2.845	4.191	4.182	4.200
2008/1/12	2.330	2.189	2.456	2.331	2.212	2.459	2.364	2.246	2.547	2.384	2.261	2.518	4.173	4.165	4.181
2008/1/13	2.409	2.258	2.684	2.412	2.258	2.736	2.484	2.290	2.858	2.527	2.315	2.877	4.155	4.146	4.165
2008/1/14	2.567	2.420	2.783	2.603	2.425	2.906	2.681	2.485	3.086	2.822	2.528	3.211	4.135	4.124	4.145
2008/1/15	2.785	2.627	2.968	2.803	2.691	2.958	2.884	2.735	3.150	2.966	2.778	3.235	4.112	4.101	4.123
2008/1/16	2.949	2.579	3.186	2.998	2.774	3.185	3.080	2.898	3.389	3.206	2.950	3.549	4.092	4.083	4.101
2008/1/17	3.094	2.897	3.331	3.135	3.022	3.327	3.223	3.063	3.456	3.411	3.095	3.816	4.076	4.069	4.083
2008/1/18	3.274	3.034	3.489	3.293	3.093	3.481	3.398	3.190	3.674	3.512	3.253	3.843	4.063	4.058	4.069
2008/1/19	3.358	3.113	3.536	3.439	3.119	3.644	3.604	3.454	3.794	3.804	3.569	4.067	4.055	4.051	4.058
2008/1/20	3.322	3.163	3.493	3.375	3.236	3.580	3.512	3.284	3.712	3.622	3.316	3.930	4.049	4.047	4.051
2008/1/21	3.561	3.303	3.803	3.615	3.422	3.889	3.708	3.531	4.061	3.787	3.561	3.984	4.045	4.044	4.047
2008/1/22	3.870	3.468	4.428	3.890	3.508	4.468	3.963	3.731	4.378	3.930	3.795	4.283	4.043	4.042	4.044
2008/1/23	4.309	3.987	4.718	4.292	4.062	4.637	4.192	4.039	4.406	4.147	4.012	4.396	4.042	4.042	4.042
2008/1/24	4.408	4.120	4.771	4.394	4.115	4.722	4.310	4.126	4.639	4.233	4.027	4.510	4.042	4.042	4.043
2008/1/25	4.443	4.179	4.743	4.427	4.153	4.725	4.415	4.182	4.732	4.334	4.185	4.567	4.044	4.043	4.045
2008/1/26	4.556	4.300	4.921	4.539	4.291	4.890	4.500	4.316	4.774	4.427	4.318	4.594	4.047	4.045	4.048
2008/1/27	4.563	4.247	4.937	4.545	4.253	4.862	4.503	4.266	4.728	4.448	4.291	4.708	4.050	4.048	4.052
2008/1/28	4.343	4.036	4.807	4.342	4.050	4.768	4.341	4.080	4.738	4.330	4.061	4.636	4.055	4.053	4.057
2008/1/29	4.229	4.119	4.424	4.233	4.116	4.428	4.241	4.124	4.432	4.248	4.127	4.382	4.060	4.058	4.063
2008/1/30	4.059	3.935	4.210	4.054	3.933	4.210	4.070	3.937	4.233	4.082	3.977	4.239	4.066	4.063	4.069
2008/1/31	3.651	3.507	3.881	3.651	3.502	3.923	3.686	3.524	3.947	3.701	3.538	3.965	4.071	4.069	4.074
<i>Monthly</i>	3.638	2.189	4.937	3.647	2.212	4.890	3.680	2.246	4.774	3.713	2.261	4.708	4.136	4.042	4.297

Table 7-14 Water temperature data (°C) at 5 depths in Namazu Ike, February 2008

Depth	1.4 m			2.6 m			5.6 m			8.7 m			12.7 m		
Date	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum	daily average	minimum	maximum
2008/2/1	3.782	3.644	4.029	3.780	3.659	4.070	3.804	3.695	4.019	3.829	3.714	4.057	4.076	4.074	4.077
2008/2/2	3.917	3.676	4.137	3.927	3.660	4.174	3.931	3.684	4.233	3.937	3.716	4.250	4.077	4.076	4.077
2008/2/3	3.959	3.796	4.098	3.956	3.780	4.091	3.973	3.815	4.106	3.977	3.824	4.155	4.075	4.074	4.076
2008/2/4	4.009	3.826	4.350	4.038	3.822	4.338	4.028	3.844	4.293	4.040	3.845	4.280	4.073	4.071	4.074
2008/2/5	3.949	3.677	4.231	3.945	3.678	4.237	3.961	3.711	4.232	3.969	3.755	4.245	4.070	4.069	4.071
2008/2/6	3.951	3.732	4.200	3.957	3.751	4.160	3.967	3.771	4.167	3.958	3.758	4.174	4.068	4.066	4.069
2008/2/7	3.991	3.911	4.115	4.000	3.924	4.137	4.027	3.955	4.129	4.028	3.970	4.113	4.066	4.065	4.067
2008/2/8	3.885	3.749	4.009	3.906	3.726	4.011	3.947	3.824	4.026	3.963	3.790	4.030	4.064	4.064	4.065
<i>Monthly</i>	3.930	3.644	4.350	3.939	3.659	4.338	3.955	3.684	4.293	3.963	3.714	4.280	4.071	4.064	4.077

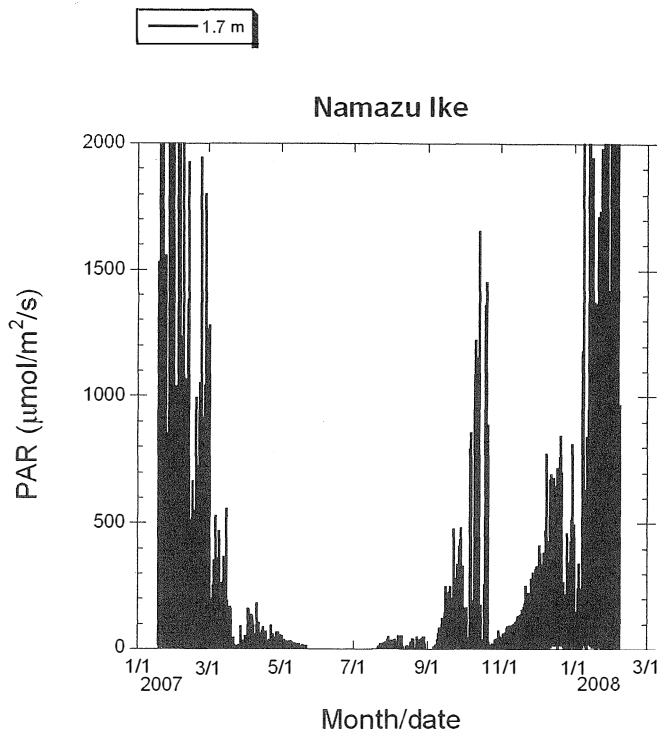


Fig. 11. Seasonal changes of PAR at 1.7 m depth in Namazu Ike (2007-2008). 10-minute interval data.

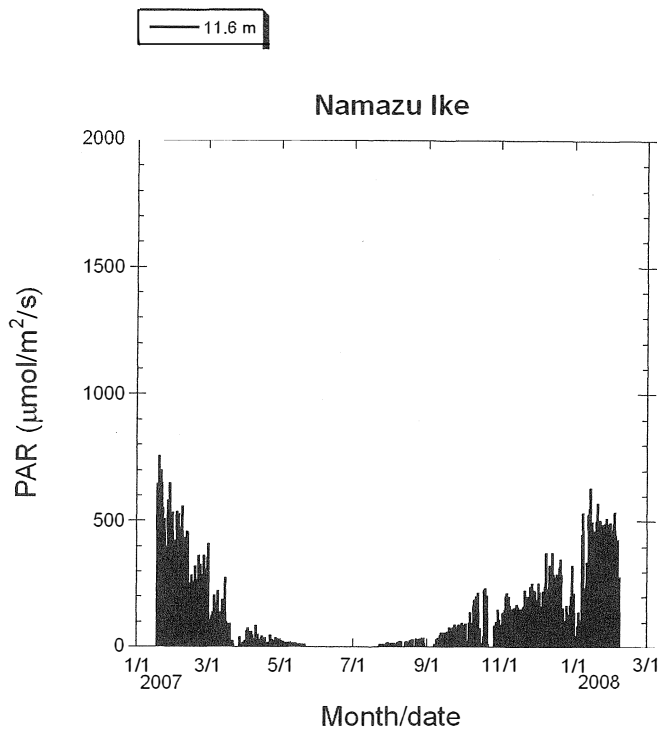


Fig. 12. Seasonal changes of PAR at 11.6 m depth in Namazu Ike (2007-2008). 10-minute interval data.

Table 8-1 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, January 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/18	479	17	1528	221	6	643
2007/1/19	233	5	831	108	2	339
2007/1/20	417	6	2240	185	2	752
2007/1/21	607	11	3288	258	3	694
2007/1/22	419	11	2522	185	3	646
2007/1/23	343	7	1064	160	2	548
2007/1/24	466	6	1557	197	2	505
2007/1/25	329	6	851	156	1	396
2007/1/26	297	2	666	139	1	312
2007/1/27	540	3	2220	216	1	579
2007/1/28	549	2	2616	224	0	569
2007/1/29	388	2	3288	165	0	647
2007/1/30	445	2	1900	184	0	515
2007/1/31	522	1	3288	210	0	531
<i>Monthly</i>	431	1	3288	186	0	752

Table 8-2 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, February 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	204	1	598	95	0	278
2007/2/2	270	0	1039	121	0	421
2007/2/3	206	0	902	95	0	385
2007/2/4	524	0	2441	200	0	534
2007/2/5	463	0	3288	178	0	522
2007/2/6	288	0	1232	127	0	470
2007/2/7	169	0	419	75	0	194
2007/2/8	428	0	2034	164	0	554
2007/2/9	208	0	686	92	0	270
2007/2/10	237	0	1066	109	0	429
2007/2/11	98	0	352	45	0	167
2007/2/12	394	0	1380	166	0	456
2007/2/13	435	0	1926	164	0	451
2007/2/14	154	0	513	73	0	249
2007/2/15	130	0	428	56	0	184
2007/2/16	205	0	665	88	0	283
2007/2/17	145	0	547	66	0	253
2007/2/18	143	0	540	66	0	254
2007/2/19	207	0	991	90	0	319
2007/2/20	225	0	725	95	0	260
2007/2/21	109	0	319	52	0	151
2007/2/22	260	0	1050	106	0	359
2007/2/23	340	0	1944	120	0	327
2007/2/24	175	0	914	56	0	282
2007/2/25	104	0	369	40	0	140
2007/2/26	254	0	1040	108	0	361
2007/2/27	316	0	1798	109	0	305
2007/2/28	356	0	1260	111	0	308
<i>Monthly</i>	252	0	3288	102	0	554

Table 8-3 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, March 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	331	0	1261	105	0	355
2007/3/2	198	0	1276	76	0	406
2007/3/3	60	0	196	30	0	101
2007/3/4	44	0	147	25	0	74
2007/3/5	59	0	251	28	0	121
2007/3/6	86	0	351	35	0	134
2007/3/7	109	0	525	50	0	203
2007/3/8	28	0	104	12	0	45
2007/3/9	108	0	356	50	0	169
2007/3/10	108	0	466	51	0	220
2007/3/11	71	0	221	36	0	113
2007/3/12	74	0	261	38	0	134
2007/3/13	59	0	235	27	0	107
2007/3/14	107	0	365	52	0	185
2007/3/15	104	0	364	51	0	185
2007/3/16	72	0	556	37	0	273
2007/3/17	48	0	193	24	0	94
2007/3/18	2	0	8	1	0	4
2007/3/19	41	0	165	22	0	89
2007/3/20	43	0	160	24	0	89
2007/3/21	11	0	42	5	0	18
2007/3/22	10	0	42	5	0	22
2007/3/23	3	0	14	1	0	6
2007/3/24	2	0	9	1	0	5
2007/3/25	2	0	10	1	0	6
2007/3/26	3	0	12	1	0	6
2007/3/27	3	0	15	1	0	6
2007/3/28	11	0	88	7	0	38
2007/3/29	6	0	34	2	0	10
2007/3/30	4	0	17	2	0	10
2007/3/31	8	0	31	4	0	15
<i>Monthly</i>	59	0	1276	26	0	406

Table 8-4 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, April 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	9	0	51	3	0	16
2007/4/2	11	0	47	5	0	21
2007/4/3	30	0	158	12	0	61
2007/4/4	27	0	156	12	0	71
2007/4/5	19	0	75	9	0	33
2007/4/6	28	0	134	12	0	57
2007/4/7	26	0	127	11	0	56
2007/4/8	19	0	92	8	0	43
2007/4/9	12	0	53	5	0	22
2007/4/10	11	0	55	5	0	24
2007/4/11	30	0	180	14	0	81
2007/4/12	20	0	104	9	0	48
2007/4/13	7	0	35	3	0	15
2007/4/14	12	0	60	5	0	27
2007/4/15	12	0	71	6	0	32
2007/4/16	13	0	86	6	0	40
2007/4/17	7	0	43	3	0	18
2007/4/18	11	0	68	5	0	32
2007/4/19	7	0	34	3	0	14
2007/4/20	5	0	25	2	0	10
2007/4/21	7	0	35	3	0	15
2007/4/22	6	0	33	3	0	15
2007/4/23	14	0	91	7	0	44
2007/4/24	12	0	55	6	0	26
2007/4/25	9	0	43	4	0	22
2007/4/26	9	0	43	4	0	22
2007/4/27	12	0	65	5	0	31
2007/4/28	8	0	40	4	0	21
2007/4/29	9	0	64	4	0	30
2007/4/30	9	0	54	4	0	26
<i>Monthly</i>	14	0	180	6	0	81

Table 8-5 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, May 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	5	0	36	2	0	18
2007/5/2	7	0	49	3	0	23
2007/5/3	6	0	38	3	0	20
2007/5/4	4	0	31	2	0	16
2007/5/5	5	0	30	3	0	15
2007/5/6	3	0	22	2	0	11
2007/5/7	5	0	28	2	0	14
2007/5/8	4	0	26	2	0	14
2007/5/9	4	0	27	2	0	14
2007/5/10	4	0	26	2	0	13
2007/5/11	3	0	19	1	0	10
2007/5/12	3	0	23	1	0	11
2007/5/13	3	0	20	1	0	10
2007/5/14	3	0	20	1	0	10
2007/5/15	2	0	18	1	0	9
2007/5/16	2	0	19	1	0	9
2007/5/17	1	0	10	0	0	6
2007/5/18	2	0	13	1	0	7
2007/5/19	2	0	14	1	0	7
2007/5/20	1	0	12	1	0	6
2007/5/21	1	0	11	0	0	6
2007/5/22	1	0	10	0	0	4
2007/5/23	0	0	4	0	0	2
2007/5/24	0	0	0	0	0	0
2007/5/25	0	0	0	0	0	0
2007/5/26	0	0	0	0	0	0
2007/5/27	0	0	2	0	0	0
2007/5/28	0	0	1	0	0	0
2007/5/29	0	0	3	0	0	2
2007/5/30	0	0	4	0	0	2
2007/5/31	0	0	3	0	0	1
<i>Monthly</i>	2	0	49	1	0	23

Table 8-6 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, June 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	0	0	2	0	0	0
2007/6/2	0	0	3	0	0	2
2007/6/3	0	0	2	0	0	1
2007/6/4	0	0	1	0	0	0
2007/6/5	0	0	2	0	0	0
2007/6/6	0	0	2	0	0	0
2007/6/7	0	0	2	0	0	0
2007/6/8	0	0	2	0	0	0
2007/6/9	0	0	2	0	0	0
2007/6/10	0	0	2	0	0	0
2007/6/11	0	0	2	0	0	0
2007/6/12	0	0	0	0	0	0
2007/6/13	0	0	1	0	0	0
2007/6/14	0	0	1	0	0	0
2007/6/15	0	0	0	0	0	0
2007/6/16	0	0	0	0	0	0
2007/6/17	0	0	0	0	0	0
2007/6/18	0	0	0	0	0	0
2007/6/19	0	0	0	0	0	0
2007/6/20	0	0	0	0	0	0
2007/6/21	0	0	0	0	0	0
2007/6/22	0	0	0	0	0	0
2007/6/23	0	0	0	0	0	0
2007/6/24	0	0	0	0	0	0
2007/6/25	0	0	0	0	0	0
2007/6/26	0	0	0	0	0	0
2007/6/27	0	0	0	0	0	0
2007/6/28	0	0	0	0	0	0
2007/6/29	0	0	0	0	0	0
2007/6/30	0	0	0	0	0	0
<i>Monthly</i>	0	0	3	0	0	2

Table 8-7 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, July 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	0	0	0	0	0	0
2007/7/2	0	0	2	0	0	0
2007/7/3	0	0	1	0	0	0
2007/7/4	0	0	2	0	0	0
2007/7/5	0	0	2	0	0	0
2007/7/6	0	0	1	0	0	0
2007/7/7	0	0	2	0	0	0
2007/7/8	0	0	2	0	0	0
2007/7/9	0	0	2	0	0	1
2007/7/10	0	0	2	0	0	0
2007/7/11	0	0	3	0	0	1
2007/7/12	0	0	3	0	0	1
2007/7/13	0	0	3	0	0	2
2007/7/14	0	0	4	0	0	2
2007/7/15	0	0	4	0	0	2
2007/7/16	0	0	2	0	0	1
2007/7/17	0	0	4	0	0	2
2007/7/18	0	0	4	0	0	2
2007/7/19	1	0	6	0	0	3
2007/7/20	1	0	6	0	0	3
2007/7/21	0	0	6	0	0	2
2007/7/22	1	0	9	0	0	4
2007/7/23	2	0	19	1	0	7
2007/7/24	1	0	8	0	0	3
2007/7/25	2	0	17	1	0	6
2007/7/26	3	0	22	1	0	7
2007/7/27	3	0	23	1	0	7
2007/7/28	3	0	26	1	0	8
2007/7/29	5	0	37	1	0	11
2007/7/30	6	0	45	2	0	14
2007/7/31	5	0	33	1	0	10
<i>Monthly</i>	1	0	45	0	0	14

Table 8-8 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, August 2007

Depth Date	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/8/1	5	0	32	1	0	10
2007/8/2	4	0	33	1	0	11
2007/8/3	2	0	16	1	0	6
2007/8/4	4	0	37	1	0	12
2007/8/5	3	0	26	1	0	9
2007/8/6	4	0	26	1	0	9
2007/8/7	6	0	49	2	0	15
2007/8/8	7	0	43	2	0	15
2007/8/9	9	0	50	3	0	17
2007/8/10	9	0	51	3	0	18
2007/8/11	1	0	8	0	0	2
2007/8/12	0	0	3	0	0	2
2007/8/13	0	0	3	0	0	1
2007/8/14	1	0	7	2	0	15
2007/8/15	2	0	10	3	0	19
2007/8/16	2	0	9	2	0	11
2007/8/17	0	0	3	0	0	2
2007/8/18	4	0	24	4	0	22
2007/8/19	7	0	40	5	0	27
2007/8/20	7	0	38	5	0	27
2007/8/21	1	0	5	0	0	3
2007/8/22	0	0	3	0	0	2
2007/8/23	10	0	46	7	0	30
2007/8/24	8	0	34	6	0	26
2007/8/25	8	0	35	6	0	27
2007/8/26	9	0	38	7	0	28
2007/8/27	10	0	40	7	0	29
2007/8/28	12	0	47	8	0	32
2007/8/29	11	0	45	8	0	31
2007/8/30	3	0	19	2	0	13
2007/8/31	0	0	2	0	0	0
<i>Monthly</i>	5	0	51	3	0	32

Table 8-9 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, September 2007

Depth Date	1.7 m			11.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/9/1	0	0	2	0	0	0
2007/9/2	1	0	4	0	0	2
2007/9/3	1	0	4	0	0	2
2007/9/4	1	0	4	0	0	2
2007/9/5	1	0	5	0	0	2
2007/9/6	2	0	6	1	0	4
2007/9/7	2	0	6	1	0	5
2007/9/8	4	0	14	2	0	9
2007/9/9	9	0	38	6	0	24
2007/9/10	14	0	59	8	0	30
2007/9/11	15	0	82	7	0	33
2007/9/12	18	0	77	10	0	43
2007/9/13	25	0	119	12	0	54
2007/9/14	23	0	97	12	0	53
2007/9/15	30	0	140	14	0	54
2007/9/16	37	0	246	13	0	54
2007/9/17	26	0	108	14	0	54
2007/9/18	36	0	224	14	0	56
2007/9/19	32	0	227	14	0	58
2007/9/20	35	0	247	16	0	73
2007/9/21	26	0	140	14	0	60
2007/9/22	40	0	203	17	0	67
2007/9/23	53	0	475	18	0	74
2007/9/24	46	0	278	18	0	86
2007/9/25	39	0	161	18	0	62
2007/9/26	54	0	335	18	0	76
2007/9/27	59	0	405	20	0	80
2007/9/28	63	0	434	21	0	84
2007/9/29	54	0	478	19	0	75
2007/9/30	52	0	329	21	0	93
<i>Monthly</i>	27	0	478	11	0	93

Table 8-10 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, October 2007

Depth Date	1.7 m			11.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/10/1	22	0	72	10	0	35
2007/10/2	34	0	163	19	0	80
2007/10/3	36	0	162	19	0	89
2007/10/4	11	0	35	4	0	13
2007/10/5	14	0	44	5	0	19
2007/10/6	95	0	792	23	0	91
2007/10/7	122	0	853	34	0	134
2007/10/8	50	0	186	24	0	91
2007/10/9	62	0	191	27	0	82
2007/10/10	172	0	1086	44	0	160
2007/10/11	209	0	1222	52	0	185
2007/10/12	177	0	1149	51	0	199
2007/10/13	97	0	393	37	0	151
2007/10/14	246	0	1655	61	0	212
2007/10/15	56	0	175	22	0	72
2007/10/16	9	0	26	2	0	8
2007/10/17	12	0	38	3	0	10
2007/10/18	59	0	254	14	0	41
2007/10/19	292	0	1357	72	0	224
2007/10/20	300	0	1449	75	0	230
2007/10/21	222	0	885	66	0	202
2007/10/22	9	0	26	2	0	9
2007/10/23	5	0	16	1	0	5
2007/10/24	5	0	16	1	0	5
2007/10/25	6	0	17	1	0	5
2007/10/26	7	0	19	1	0	6
2007/10/27	15	0	38	30	0	81
2007/10/28	8	0	22	17	0	49
2007/10/29	12	0	39	25	0	97
2007/10/30	22	0	72	44	0	144
2007/10/31	18	0	49	39	0	106
<i>Monthly</i>	78	0	1655	27	0	230

Table 8-11 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, November 2007

Depth	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/11/1	8	0	25	13	0	44
2007/11/2	16	0	44	34	0	84
2007/11/3	22	0	55	47	0	132
2007/11/4	24	0	59	50	0	136
2007/11/5	26	0	64	54	0	146
2007/11/6	35	0	83	68	0	196
2007/11/7	37	0	90	68	0	211
2007/11/8	37	0	92	64	0	197
2007/11/9	39	0	94	62	0	163
2007/11/10	38	0	92	59	0	144
2007/11/11	40	0	96	59	0	147
2007/11/12	42	0	100	60	0	149
2007/11/13	45	0	108	62	0	153
2007/11/14	48	0	113	64	0	156
2007/11/15	50	0	128	65	0	166
2007/11/16	54	0	130	66	0	156
2007/11/17	56	0	134	64	0	150
2007/11/18	57	0	138	61	0	145
2007/11/19	63	0	154	64	0	150
2007/11/20	66	0	167	65	0	155
2007/11/21	71	1	180	68	0	160
2007/11/22	51	0	250	49	0	221
2007/11/23	36	0	94	38	0	100
2007/11/24	86	1	223	81	1	199
2007/11/25	56	1	130	58	1	136
2007/11/26	65	1	279	63	1	236
2007/11/27	104	1	245	91	1	205
2007/11/28	108	2	303	95	2	252
2007/11/29	123	2	297	100	2	224
2007/11/30	134	2	316	98	2	215
<i>Monthly</i>	55	0	316	63	0	252

Table 8-12 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, December 2007

Depth	1.7 m			11.6 m		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/12/1	97	3	329	71	2	184
2007/12/2	68	2	206	51	1	172
2007/12/3	100	2	408	69	2	250
2007/12/4	159	6	378	98	3	216
2007/12/5	63	3	218	41	2	138
2007/12/6	114	2	335	58	1	160
2007/12/7	143	6	383	78	2	219
2007/12/8	202	6	470	108	3	238
2007/12/9	230	10	774	120	6	371
2007/12/10	94	6	238	55	3	137
2007/12/11	183	6	427	95	2	226
2007/12/12	289	11	671	138	5	320
2007/12/13	255	13	691	122	6	298
2007/12/14	213	19	645	104	9	371
2007/12/15	307	21	678	136	10	285
2007/12/16	297	20	646	129	10	271
2007/12/17	294	20	646	126	9	267
2007/12/18	214	20	718	91	8	288
2007/12/19	162	7	429	71	2	193
2007/12/20	320	18	759	130	8	313
2007/12/21	304	23	845	123	10	345
2007/12/22	322	18	700	134	8	286
2007/12/23	113	14	267	49	6	153
2007/12/24	77	6	205	30	2	93
2007/12/25	83	5	218	30	1	104
2007/12/26	156	7	458	59	2	164
2007/12/27	142	9	344	56	2	126
2007/12/28	68	10	169	26	2	66
2007/12/29	131	5	429	51	1	162
2007/12/30	201	11	511	80	3	197
2007/12/31	232	14	811	90	4	321
<i>Monthly</i>	182	2	845	85	1	371

Table 8-13 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, January 2008

Depth Date	1.7 m			11.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	87	6	495	35	1	214
2008/1/2	45	1	149	15	0	42
2008/1/3	54	2	134	18	0	43
2008/1/4	99	5	240	35	0	83
2008/1/5	129	6	338	51	1	138
2008/1/6	46	2	116	17	0	45
2008/1/7	101	2	241	42	0	103
2008/1/8	390	10	1179	133	2	446
2008/1/9	606	26	2232	235	9	531
2008/1/10	153	22	401	60	8	169
2008/1/11	242	10	631	91	2	235
2008/1/12	292	7	840	113	2	335
2008/1/13	589	30	3288	222	10	521
2008/1/14	568	22	2559	209	7	546
2008/1/15	500	18	1687	183	6	627
2008/1/16	387	11	1944	163	3	494
2008/1/17	377	14	1101	153	4	438
2008/1/18	401	13	1373	160	4	458
2008/1/19	215	6	531	83	1	201
2008/1/20	472	9	1365	187	2	497
2008/1/21	451	10	1709	186	2	569
2008/1/22	460	10	1733	203	2	500
2008/1/23	461	10	1671	204	2	499
2008/1/24	493	7	1977	203	2	482
2008/1/25	458	6	1766	192	1	485
2008/1/26	487	6	2392	196	1	459
2008/1/27	498	5	2446	195	0	486
2008/1/28	570	4	3288	192	0	510
2008/1/29	295	2	736	114	0	322
2008/1/30	381	0	1418	143	0	484
2008/1/31	346	0	2997	121	0	491
<i>Monthly</i>	344	0	3288	134	0	627

Table 8-14 Photosynthetically active radiation data ($\mu\text{mol}/\text{m}^2/\text{s}$) at 2 depths in Namazu Ike, February 2008

Depth Date	1.7 m			11.6 m		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/2/1	449	1	1492	162	0	453
2008/2/2	604	0	2589	178	0	463
2008/2/3	353	0	1338	125	0	489
2008/2/4	474	0	2005	160	0	534
2008/2/5	461	0	2341	170	0	443
2008/2/6	489	0	2921	166	0	424
2008/2/7	233	0	744	85	0	241
2008/2/8	154	0	967	54	0	277
<i>Monthly</i>	402	0	2921	138	0	534

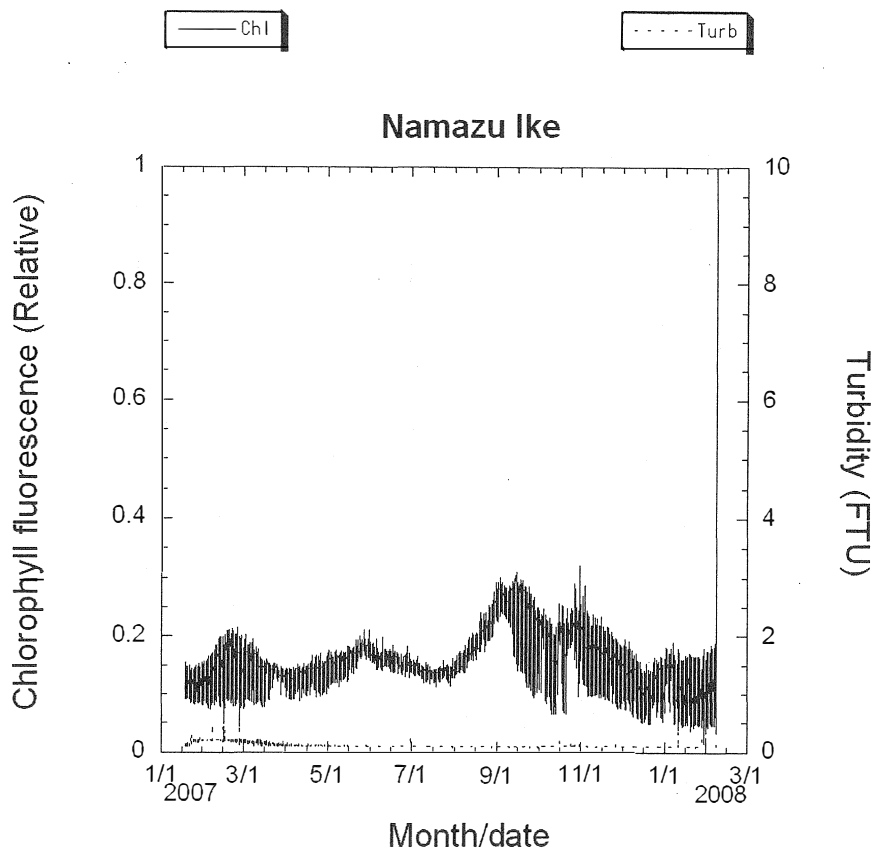


Fig. 13. Seasonal changes of chlorophyll fluorescence and turbidity at 2.6 m depth in Namazu Ike (2007-2008). 60-minute interval data.

Table 9-1 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, January 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/1/18	0.11	0.08	0.17	0.12	0.10	0.20
2007/1/19	0.12	0.07	0.17	0.11	0.10	0.20
2007/1/20	0.11	0.08	0.17	0.12	0.10	0.20
2007/1/21	0.11	0.08	0.17	0.12	0.10	0.20
2007/1/22	0.10	0.07	0.16	0.19	0.10	0.60
2007/1/23	0.11	0.07	0.15	0.17	0.10	1.40
2007/1/24	0.11	0.06	0.16	0.18	0.10	0.20
2007/1/25	0.11	0.07	0.16	0.20	0.10	0.20
2007/1/26	0.11	0.07	0.17	0.19	0.10	0.20
2007/1/27	0.11	0.06	0.17	0.18	0.10	0.20
2007/1/28	0.11	0.06	0.17	0.19	0.10	0.30
2007/1/29	0.11	0.07	0.16	0.20	0.10	0.70
2007/1/30	0.11	0.06	0.17	0.20	0.10	0.20
2007/1/31	0.11	0.06	0.17	0.20	0.10	0.20
<i>Monthly</i>	0.11	0.06	0.17	0.17	0.10	1.40

Table 9-2 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, February 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/2/1	0.11	0.07	0.17	0.20	0.20	0.20
2007/2/2	0.12	0.07	0.17	0.20	0.10	0.30
2007/2/3	0.11	0.07	0.17	0.20	0.10	0.30
2007/2/4	0.11	0.06	0.17	0.20	0.10	0.20
2007/2/5	0.11	0.06	0.18	0.20	0.10	0.20
2007/2/6	0.12	0.06	0.18	0.20	0.10	0.20
2007/2/7	0.12	0.07	0.17	0.21	0.10	1.50
2007/2/8	0.12	0.06	0.20	0.20	0.10	0.20
2007/2/9	0.13	0.07	0.20	0.20	0.10	0.20
2007/2/10	0.13	0.07	0.20	0.20	0.20	0.20
2007/2/11	0.14	0.09	0.21	0.20	0.10	0.20
2007/2/12	0.13	0.06	0.21	0.20	0.10	0.20
2007/2/13	0.12	0.06	0.21	0.20	0.10	0.20
2007/2/14	0.14	0.07	0.21	0.20	0.10	0.70
2007/2/15	0.12	0.04	0.20	0.41	0.10	3.30
2007/2/16	0.14	0.06	0.21	0.21	0.10	2.50
2007/2/17	0.15	0.07	0.22	0.20	0.10	0.30
2007/2/18	0.15	0.07	0.22	0.20	0.10	0.20
2007/2/19	0.14	0.07	0.22	0.20	0.10	0.20
2007/2/20	0.14	0.07	0.22	0.20	0.10	0.20
2007/2/21	0.15	0.08	0.22	0.20	0.10	0.20
2007/2/22	0.14	0.06	0.23	0.19	0.10	0.20
2007/2/23	0.13	0.06	0.21	0.19	0.10	0.20
2007/2/24	0.14	0.07	0.22	0.18	0.10	0.20
2007/2/25	0.15	0.08	0.23	0.18	0.10	0.20
2007/2/26	0.12	0.03	0.21	0.20	0.10	2.00
2007/2/27	0.13	0.06	0.21	0.19	0.10	0.20
2007/2/28	0.13	0.07	0.20	0.18	0.10	0.20
<i>Monthly</i>	0.13	0.03	0.23	0.20	0.10	3.30

Table 9-3 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, March 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/3/1	0.12	0.06	0.20	0.18	0.10	0.20
2007/3/2	0.13	0.06	0.21	0.17	0.10	0.20
2007/3/3	0.15	0.08	0.21	0.18	0.10	0.20
2007/3/4	0.14	0.08	0.20	0.17	0.10	0.20
2007/3/5	0.14	0.08	0.26	0.17	0.10	0.20
2007/3/6	0.13	0.07	0.27	0.16	0.10	0.40
2007/3/7	0.13	0.07	0.28	0.17	0.10	0.40
2007/3/8	0.15	0.09	0.26	0.16	0.10	0.30
2007/3/9	0.13	0.07	0.26	0.15	0.10	0.40
2007/3/10	0.13	0.07	0.27	0.16	0.10	0.40
2007/3/11	0.13	0.07	0.25	0.16	0.10	0.40
2007/3/12	0.13	0.07	0.26	0.16	0.10	0.40
2007/3/13	0.13	0.07	0.24	0.15	0.10	0.40
2007/3/14	0.12	0.06	0.23	0.14	0.10	0.40
2007/3/15	0.12	0.07	0.23	0.14	0.10	0.30
2007/3/16	0.12	0.07	0.22	0.14	0.10	0.30
2007/3/17	0.12	0.07	0.23	0.13	0.10	0.30
2007/3/18	0.15	0.12	0.24	0.14	0.10	0.40
2007/3/19	0.13	0.07	0.23	0.13	0.10	0.40
2007/3/20	0.12	0.07	0.23	0.14	0.10	0.40
2007/3/21	0.13	0.09	0.23	0.13	0.10	0.30
2007/3/22	0.13	0.09	0.21	0.12	0.10	0.40
2007/3/23	0.14	0.11	0.23	0.12	0.10	0.30
2007/3/24	0.14	0.12	0.24	0.12	0.10	0.30
2007/3/25	0.14	0.11	0.22	0.12	0.10	0.30
2007/3/26	0.13	0.10	0.20	0.11	0.10	0.20
2007/3/27	0.14	0.11	0.15	0.12	0.10	0.20
2007/3/28	0.13	0.09	0.17	0.12	0.10	0.20
2007/3/29	0.14	0.10	0.17	0.11	0.10	0.20
2007/3/30	0.13	0.10	0.16	0.12	0.10	0.20
2007/3/31	0.13	0.10	0.15	0.11	0.10	0.20
<i>Monthly</i>	0.13	0.06	0.28	0.14	0.10	0.40

Table 9-4 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, April 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/4/1	0.13	0.09	0.16	0.11	0.10	0.20
2007/4/2	0.13	0.09	0.16	0.11	0.10	0.20
2007/4/3	0.12	0.09	0.16	0.11	0.10	0.20
2007/4/4	0.12	0.08	0.16	0.11	0.10	0.20
2007/4/5	0.12	0.08	0.20	0.11	0.10	0.30
2007/4/6	0.12	0.08	0.21	0.11	0.10	0.30
2007/4/7	0.12	0.08	0.15	0.11	0.10	0.20
2007/4/8	0.13	0.09	0.16	0.11	0.10	0.20
2007/4/9	0.14	0.09	0.17	0.11	0.10	0.20
2007/4/10	0.13	0.09	0.17	0.11	0.10	0.20
2007/4/11	0.13	0.07	0.17	0.10	0.10	0.20
2007/4/12	0.13	0.09	0.15	0.10	0.10	0.20
2007/4/13	0.13	0.10	0.17	0.11	0.10	0.20
2007/4/14	0.13	0.09	0.17	0.10	0.10	0.20
2007/4/15	0.13	0.09	0.16	0.10	0.10	0.20
2007/4/16	0.13	0.09	0.16	0.10	0.10	0.20
2007/4/17	0.14	0.09	0.17	0.11	0.10	0.20
2007/4/18	0.14	0.09	0.17	0.11	0.10	0.20
2007/4/19	0.14	0.10	0.17	0.10	0.10	0.20
2007/4/20	0.14	0.10	0.17	0.10	0.10	0.20
2007/4/21	0.14	0.09	0.17	0.10	0.10	0.20
2007/4/22	0.14	0.09	0.17	0.10	0.10	0.20
2007/4/23	0.14	0.09	0.18	0.11	0.10	0.20
2007/4/24	0.14	0.09	0.18	0.10	0.10	0.20
2007/4/25	0.14	0.09	0.17	0.10	0.10	0.20
2007/4/26	0.14	0.09	0.18	0.10	0.10	0.20
2007/4/27	0.14	0.09	0.17	0.10	0.10	0.20
2007/4/28	0.14	0.09	0.17	0.11	0.10	0.20
2007/4/29	0.14	0.09	0.17	0.11	0.10	0.20
2007/4/30	0.14	0.09	0.18	0.10	0.10	0.20
<i>Monthly</i>	0.13	0.07	0.21	0.11	0.10	0.30

Table 9-5 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, May 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/5/1	0.15	0.09	0.20	0.10	0.10	0.20
2007/5/2	0.15	0.09	0.20	0.11	0.10	0.20
2007/5/3	0.15	0.09	0.20	0.10	0.10	0.20
2007/5/4	0.15	0.10	0.19	0.10	0.10	0.20
2007/5/5	0.15	0.10	0.18	0.10	0.10	0.20
2007/5/6	0.15	0.11	0.18	0.10	0.10	0.20
2007/5/7	0.15	0.10	0.20	0.10	0.10	0.20
2007/5/8	0.15	0.12	0.18	0.10	0.10	0.20
2007/5/9	0.15	0.09	0.18	0.10	0.10	0.20
2007/5/10	0.15	0.11	0.18	0.10	0.10	0.20
2007/5/11	0.15	0.11	0.20	0.11	0.10	0.20
2007/5/12	0.15	0.11	0.18	0.10	0.10	0.20
2007/5/13	0.15	0.12	0.20	0.11	0.10	0.20
2007/5/14	0.16	0.12	0.20	0.10	0.10	0.20
2007/5/15	0.16	0.12	0.20	0.11	0.10	0.20
2007/5/16	0.16	0.10	0.20	0.10	0.10	0.20
2007/5/17	0.16	0.12	0.20	0.10	0.10	0.20
2007/5/18	0.16	0.12	0.20	0.10	0.10	0.20
2007/5/19	0.16	0.14	0.20	0.10	0.10	0.20
2007/5/20	0.17	0.12	0.20	0.10	0.10	0.20
2007/5/21	0.17	0.12	0.20	0.10	0.10	0.20
2007/5/22	0.17	0.14	0.20	0.10	0.10	0.20
2007/5/23	0.17	0.14	0.22	0.10	0.10	0.20
2007/5/24	0.18	0.14	0.23	0.10	0.10	0.20
2007/5/25	0.17	0.15	0.20	0.10	0.10	0.20
2007/5/26	0.18	0.15	0.21	0.10	0.10	0.20
2007/5/27	0.19	0.15	0.30	0.10	0.10	0.20
2007/5/28	0.18	0.15	0.21	0.10	0.10	0.20
2007/5/29	0.17	0.14	0.20	0.10	0.10	0.20
2007/5/30	0.18	0.15	0.22	0.10	0.10	0.10
2007/5/31	0.18	0.14	0.24	0.10	0.10	0.20
<i>Monthly</i>	0.16	0.09	0.30	0.10	0.10	0.20

Table 9-6 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, June 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/6/1	0.17	0.14	0.21	0.10	0.10	0.10
2007/6/2	0.17	0.14	0.20	0.10	0.10	0.20
2007/6/3	0.17	0.14	0.28	0.10	0.10	0.10
2007/6/4	0.17	0.14	0.20	0.10	0.10	0.20
2007/6/5	0.16	0.12	0.21	0.10	0.10	0.10
2007/6/6	0.16	0.14	0.20	0.10	0.10	0.20
2007/6/7	0.16	0.13	0.20	0.10	0.10	0.10
2007/6/8	0.16	0.14	0.20	0.10	0.10	0.20
2007/6/9	0.16	0.12	0.19	0.10	0.10	0.20
2007/6/10	0.16	0.14	0.20	0.10	0.10	0.10
2007/6/11	0.17	0.14	0.20	0.10	0.10	0.10
2007/6/12	0.16	0.12	0.20	0.10	0.10	0.20
2007/6/13	0.16	0.14	0.20	0.10	0.10	0.20
2007/6/14	0.16	0.14	0.21	0.10	0.10	0.20
2007/6/15	0.16	0.14	0.20	0.10	0.10	0.10
2007/6/16	0.16	0.12	0.20	0.10	0.10	0.10
2007/6/17	0.15	0.12	0.20	0.10	0.10	0.20
2007/6/18	0.15	0.12	0.20	0.10	0.00	0.10
2007/6/19	0.16	0.12	0.21	0.10	0.10	0.10
2007/6/20	0.16	0.14	0.20	0.10	0.10	0.10
2007/6/21	0.16	0.12	0.20	0.10	0.10	0.20
2007/6/22	0.15	0.12	0.17	0.10	0.10	0.10
2007/6/23	0.15	0.12	0.17	0.10	0.00	0.10
2007/6/24	0.14	0.12	0.17	0.10	0.10	0.10
2007/6/25	0.15	0.12	0.18	0.10	0.10	0.20
2007/6/26	0.15	0.12	0.20	0.10	0.10	0.20
2007/6/27	0.15	0.12	0.18	0.10	0.10	0.10
2007/6/28	0.15	0.12	0.20	0.10	0.10	0.20
2007/6/29	0.15	0.12	0.20	0.10	0.10	0.10
2007/6/30	0.15	0.12	0.17	0.11	0.10	0.30
<i>Monthly</i>	0.16	0.12	0.28	0.10	0.00	0.30

Table 9-7 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, July 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/7/1	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/2	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/3	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/4	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/5	0.14	0.12	0.20	0.10	0.10	0.20
2007/7/6	0.14	0.12	0.17	0.10	0.10	0.20
2007/7/7	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/8	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/9	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/10	0.14	0.11	0.17	0.10	0.10	0.10
2007/7/11	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/12	0.13	0.11	0.17	0.10	0.10	0.10
2007/7/13	0.13	0.11	0.17	0.10	0.10	0.10
2007/7/14	0.13	0.10	0.16	0.10	0.10	0.10
2007/7/15	0.13	0.10	0.16	0.10	0.10	0.10
2007/7/16	0.13	0.12	0.15	0.10	0.10	0.10
2007/7/17	0.13	0.11	0.16	0.10	0.10	0.10
2007/7/18	0.13	0.11	0.16	0.10	0.10	0.10
2007/7/19	0.13	0.10	0.15	0.10	0.10	0.10
2007/7/20	0.13	0.12	0.15	0.10	0.10	0.10
2007/7/21	0.13	0.10	0.17	0.10	0.10	0.10
2007/7/22	0.14	0.11	0.17	0.10	0.10	0.20
2007/7/23	0.14	0.11	0.17	0.10	0.10	0.20
2007/7/24	0.14	0.11	0.19	0.10	0.10	0.10
2007/7/25	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/26	0.14	0.11	0.17	0.10	0.10	0.10
2007/7/27	0.14	0.11	0.17	0.10	0.10	0.10
2007/7/28	0.13	0.11	0.16	0.10	0.10	0.10
2007/7/29	0.14	0.10	0.16	0.10	0.00	0.10
2007/7/30	0.14	0.12	0.17	0.10	0.10	0.10
2007/7/31	0.14	0.12	0.17	0.10	0.00	0.10
<i>Monthly</i>	0.14	0.10	0.20	0.10	0.00	0.20

Table 9-8 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, August 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/8/1	0.14	0.12	0.17	0.10	0.10	0.10
2007/8/2	0.15	0.12	0.17	0.10	0.10	0.10
2007/8/3	0.15	0.12	0.18	0.10	0.10	0.10
2007/8/4	0.15	0.12	0.18	0.10	0.10	0.10
2007/8/5	0.15	0.12	0.19	0.10	0.10	0.10
2007/8/6	0.15	0.12	0.20	0.10	0.10	0.10
2007/8/7	0.15	0.12	0.18	0.10	0.10	0.10
2007/8/8	0.15	0.12	0.19	0.10	0.00	0.10
2007/8/9	0.16	0.12	0.20	0.10	0.10	0.10
2007/8/10	0.17	0.14	0.20	0.10	0.00	0.10
2007/8/11	0.17	0.14	0.21	0.10	0.10	0.10
2007/8/12	0.18	0.14	0.20	0.10	0.10	0.10
2007/8/13	0.17	0.14	0.21	0.10	0.10	0.10
2007/8/14	0.18	0.15	0.23	0.10	0.10	0.10
2007/8/15	0.18	0.14	0.21	0.10	0.10	0.10
2007/8/16	0.18	0.15	0.23	0.10	0.10	0.10
2007/8/17	0.18	0.14	0.22	0.10	0.10	0.10
2007/8/18	0.19	0.17	0.22	0.10	0.10	0.10
2007/8/19	0.20	0.16	0.24	0.10	0.10	0.10
2007/8/20	0.20	0.17	0.26	0.10	0.10	0.10
2007/8/21	0.21	0.17	0.26	0.10	0.00	0.10
2007/8/22	0.22	0.17	0.25	0.10	0.10	0.10
2007/8/23	0.21	0.17	0.25	0.10	0.10	0.10
2007/8/24	0.21	0.17	0.26	0.10	0.10	0.20
2007/8/25	0.21	0.17	0.25	0.10	0.10	0.10
2007/8/26	0.21	0.18	0.27	0.10	0.10	0.10
2007/8/27	0.22	0.17	0.26	0.10	0.10	0.10
2007/8/28	0.22	0.19	0.27	0.10	0.00	0.10
2007/8/29	0.22	0.18	0.28	0.10	0.00	0.10
2007/8/30	0.24	0.20	0.30	0.10	0.10	0.10
2007/8/31	0.26	0.22	0.31	0.10	0.10	0.10
<i>Monthly</i>	0.19	0.12	0.31	0.10	0.00	0.20

Table 9-9 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, September 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/9/1	0.26	0.21	0.30	0.10	0.00	0.10
2007/9/2	0.26	0.21	0.32	0.10	0.10	0.10
2007/9/3	0.27	0.22	0.33	0.10	0.10	0.10
2007/9/4	0.27	0.23	0.30	0.10	0.10	0.10
2007/9/5	0.27	0.22	0.31	0.10	0.00	0.10
2007/9/6	0.26	0.22	0.30	0.10	0.10	0.10
2007/9/7	0.26	0.22	0.31	0.10	0.10	0.10
2007/9/8	0.26	0.22	0.30	0.10	0.00	0.10
2007/9/9	0.25	0.21	0.29	0.10	0.10	0.10
2007/9/10	0.26	0.21	0.31	0.10	0.00	0.10
2007/9/11	0.26	0.20	0.30	0.10	0.10	0.10
2007/9/12	0.26	0.20	0.31	0.10	0.10	0.10
2007/9/13	0.24	0.15	0.31	0.10	0.00	0.10
2007/9/14	0.24	0.14	0.31	0.10	0.10	0.10
2007/9/15	0.24	0.14	0.32	0.10	0.00	0.10
2007/9/16	0.23	0.12	0.30	0.10	0.00	0.10
2007/9/17	0.24	0.14	0.30	0.10	0.00	0.10
2007/9/18	0.24	0.14	0.32	0.10	0.10	0.10
2007/9/19	0.24	0.12	0.30	0.10	0.10	0.10
2007/9/20	0.23	0.12	0.34	0.10	0.10	0.10
2007/9/21	0.24	0.12	0.30	0.10	0.10	0.10
2007/9/22	0.22	0.12	0.30	0.10	0.10	0.10
2007/9/23	0.22	0.10	0.29	0.10	0.00	0.10
2007/9/24	0.22	0.09	0.30	0.10	0.10	0.10
2007/9/25	0.21	0.11	0.29	0.10	0.00	0.10
2007/9/26	0.21	0.09	0.29	0.10	0.00	0.10
2007/9/27	0.20	0.09	0.28	0.10	0.10	0.10
2007/9/28	0.19	0.09	0.29	0.10	0.00	0.10
2007/9/29	0.19	0.09	0.26	0.10	0.10	0.10
2007/9/30	0.19	0.09	0.27	0.10	0.10	0.10
<i>Monthly</i>	0.24	0.09	0.34	0.10	0.00	0.10

Table 9-10 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, October 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/10/1	0.20	0.12	0.26	0.10	0.00	0.10
2007/10/2	0.19	0.09	0.26	0.10	0.00	0.10
2007/10/3	0.19	0.09	0.25	0.10	0.00	0.10
2007/10/4	0.22	0.17	0.26	0.10	0.10	0.10
2007/10/5	0.22	0.17	0.27	0.10	0.10	0.10
2007/10/6	0.17	0.07	0.25	0.10	0.10	0.10
2007/10/7	0.16	0.07	0.25	0.10	0.00	0.10
2007/10/8	0.17	0.09	0.25	0.10	0.10	0.10
2007/10/9	0.17	0.09	0.26	0.10	0.10	0.10
2007/10/10	0.15	0.06	0.24	0.10	0.10	0.10
2007/10/11	0.13	0.06	0.24	0.10	0.00	0.10
2007/10/12	0.13	0.05	0.22	0.10	0.00	0.10
2007/10/13	0.14	0.06	0.21	0.10	0.10	0.10
2007/10/14	0.13	0.05	0.23	0.10	0.10	0.20
2007/10/15	0.16	0.09	0.25	0.10	0.10	0.10
2007/10/16	0.21	0.17	0.27	0.10	0.10	0.10
2007/10/17	0.20	0.17	0.25	0.10	0.10	0.20
2007/10/18	0.18	0.10	0.26	0.10	0.10	0.10
2007/10/19	0.15	0.05	0.33	0.10	0.00	0.10
2007/10/20	0.14	0.06	0.25	0.10	0.10	0.20
2007/10/21	0.13	0.04	0.25	0.10	0.10	0.20
2007/10/22	0.19	0.17	0.28	0.10	0.00	0.20
2007/10/23	0.20	0.17	0.24	0.10	0.10	0.10
2007/10/24	0.20	0.17	0.25	0.10	0.10	0.20
2007/10/25	0.21	0.17	0.29	0.10	0.10	0.20
2007/10/26	0.22	0.17	0.26	0.10	0.10	0.10
2007/10/27	0.20	0.15	0.40	0.10	0.10	0.20
2007/10/28	0.21	0.16	0.51	0.11	0.10	0.20
2007/10/29	0.20	0.14	0.29	0.10	0.10	0.20
2007/10/30	0.18	0.09	0.27	0.10	0.10	0.20
2007/10/31	0.18	0.10	0.40	0.10	0.10	0.20
<i>Monthly</i>	0.18	0.04	0.51	0.10	0.00	0.20

Table 9-11 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, November 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	daily average	minimum	maximum	daily average	minimum	maximum
2007/11/1	0.20	0.14	0.29	0.10	0.10	0.20
2007/11/2	0.19	0.12	0.28	0.10	0.10	0.20
2007/11/3	0.17	0.10	0.26	0.10	0.00	0.10
2007/11/4	0.17	0.10	0.30	0.10	0.10	0.20
2007/11/5	0.17	0.09	0.34	0.10	0.10	0.10
2007/11/6	0.15	0.09	0.26	0.10	0.00	0.10
2007/11/7	0.16	0.09	0.25	0.10	0.10	0.10
2007/11/8	0.16	0.09	0.23	0.10	0.10	0.10
2007/11/9	0.16	0.09	0.23	0.10	0.10	0.10
2007/11/10	0.16	0.09	0.25	0.10	0.00	0.10
2007/11/11	0.16	0.09	0.25	0.10	0.10	0.10
2007/11/12	0.16	0.09	0.24	0.10	0.00	0.20
2007/11/13	0.16	0.09	0.24	0.10	0.00	0.10
2007/11/14	0.16	0.09	0.23	0.10	0.00	0.20
2007/11/15	0.15	0.09	0.23	0.10	0.10	0.20
2007/11/16	0.15	0.09	0.25	0.10	0.10	0.10
2007/11/17	0.15	0.09	0.22	0.10	0.10	0.10
2007/11/18	0.15	0.09	0.22	0.10	0.10	0.10
2007/11/19	0.15	0.07	0.22	0.10	0.10	0.10
2007/11/20	0.15	0.09	0.24	0.10	0.00	0.10
2007/11/21	0.15	0.08	0.22	0.10	0.10	0.10
2007/11/22	0.15	0.08	0.22	0.10	0.00	0.10
2007/11/23	0.16	0.10	0.22	0.10	0.10	0.10
2007/11/24	0.14	0.07	0.21	0.10	0.10	0.10
2007/11/25	0.15	0.09	0.20	0.10	0.10	0.10
2007/11/26	0.15	0.07	0.20	0.10	0.10	0.20
2007/11/27	0.13	0.06	0.20	0.10	0.00	0.10
2007/11/28	0.13	0.06	0.21	0.10	0.10	0.10
2007/11/29	0.13	0.06	0.20	0.10	0.10	0.20
2007/11/30	0.12	0.06	0.20	0.10	0.10	0.20
<i>Monthly</i>	0.15	0.06	0.34	0.10	0.00	0.20

Table 9-12 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, December 2007

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2007/12/1	0.13	0.07	0.20	0.10	0.10	0.20
2007/12/2	0.14	0.09	0.20	0.10	0.00	0.10
2007/12/3	0.13	0.06	0.20	0.10	0.10	0.10
2007/12/4	0.12	0.06	0.19	0.10	0.10	0.20
2007/12/5	0.14	0.08	0.20	0.10	0.10	0.10
2007/12/6	0.13	0.07	0.20	0.10	0.10	0.10
2007/12/7	0.12	0.06	0.20	0.10	0.10	0.20
2007/12/8	0.11	0.05	0.20	0.10	0.10	0.10
2007/12/9	0.10	0.04	0.17	0.10	0.10	0.20
2007/12/10	0.12	0.08	0.17	0.10	0.10	0.10
2007/12/11	0.11	0.06	0.18	0.10	0.10	0.20
2007/12/12	0.10	0.04	0.17	0.10	0.10	0.10
2007/12/13	0.10	0.04	0.17	0.10	0.10	0.10
2007/12/14	0.10	0.04	0.17	0.10	0.10	0.10
2007/12/15	0.09	0.03	0.17	0.10	0.10	0.10
2007/12/16	0.09	0.04	0.14	0.10	0.10	0.10
2007/12/17	0.09	0.04	0.16	0.10	0.10	0.10
2007/12/18	0.09	0.04	0.15	0.10	0.10	0.10
2007/12/19	0.10	0.05	0.16	0.10	0.10	0.20
2007/12/20	0.09	0.03	0.16	0.10	0.10	0.20
2007/12/21	0.08	0.03	0.15	0.10	0.10	0.10
2007/12/22	0.08	0.04	0.14	0.10	0.10	0.20
2007/12/23	0.11	0.06	0.15	0.10	0.10	0.10
2007/12/24	0.12	0.07	0.17	0.10	0.10	0.10
2007/12/25	0.12	0.07	0.17	0.10	0.00	0.10
2007/12/26	0.11	0.05	0.17	0.10	0.10	0.10
2007/12/27	0.10	0.06	0.17	0.10	0.10	0.10
2007/12/28	0.13	0.07	0.17	0.10	0.10	0.20
2007/12/29	0.11	0.04	0.17	0.10	0.10	0.10
2007/12/30	0.10	0.05	0.17	0.10	0.00	0.20
2007/12/31	0.10	0.04	0.16	0.10	0.10	0.10
<i>Monthly</i>	0.11	0.03	0.20	0.10	0.00	0.20

Table 9-13 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, January 2008

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/1/1	0.12	0.06	0.17	0.10	0.10	0.10
2008/1/2	0.15	0.10	0.20	0.10	0.10	0.10
2008/1/3	0.15	0.11	0.20	0.10	0.10	0.10
2008/1/4	0.13	0.08	0.17	0.10	0.10	0.10
2008/1/5	0.12	0.06	0.18	0.10	0.10	0.10
2008/1/6	0.15	0.10	0.20	0.10	0.10	0.10
2008/1/7	0.13	0.07	0.20	0.10	0.10	0.10
2008/1/8	0.09	0.03	0.18	0.10	0.10	0.20
2008/1/9	0.09	0.02	0.17	0.10	0.10	0.10
2008/1/10	0.12	0.07	0.17	0.10	0.10	0.20
2008/1/11	0.10	0.01	0.20	0.17	0.00	2.70
2008/1/12	0.11	0.04	0.20	0.10	0.10	0.20
2008/1/13	0.08	0.04	0.17	0.10	0.10	0.20
2008/1/14	0.09	0.01	0.17	0.10	0.10	0.10
2008/1/15	0.08	0.03	0.17	0.10	0.10	0.10
2008/1/16	0.10	0.04	0.18	0.10	0.10	0.20
2008/1/17	0.09	0.04	0.17	0.10	0.00	0.10
2008/1/18	0.09	0.03	0.17	0.10	0.10	0.20
2008/1/19	0.11	0.05	0.17	0.10	0.10	0.10
2008/1/20	0.09	0.03	0.18	0.10	0.10	0.10
2008/1/21	0.09	0.04	0.17	0.10	0.10	0.20
2008/1/22	0.09	0.02	0.18	0.10	0.10	0.10
2008/1/23	0.09	0.03	0.17	0.10	0.10	0.10
2008/1/24	0.09	0.03	0.18	0.10	0.00	0.20
2008/1/25	0.09	0.03	0.17	0.10	0.10	0.20
2008/1/26	0.09	0.02	0.17	0.10	0.10	0.20
2008/1/27	0.09	0.03	0.18	0.10	0.10	0.20
2008/1/28	0.08	0.02	0.16	0.11	0.10	1.40
2008/1/29	0.10	0.04	0.18	0.10	0.10	0.10
2008/1/30	0.10	0.00	0.20	0.14	0.00	2.30
2008/1/31	0.09	0.03	0.17	0.14	0.00	3.00
<i>Monthly</i>	0.10	0.00	0.20	0.11	0.00	3.00

Table 9-14 Chlorophyll a fluorescence and turbidity data at 2.6 m depth in Namazu Ike, February 2008

Depth Date	Chlorophyll (relative)			Turbidity (FTU)		
	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>	<i>daily average</i>	<i>minimum</i>	<i>maximum</i>
2008/2/1	0.09	0.02	0.19	0.10	0.10	0.10
2008/2/2	0.09	0.02	0.19	0.10	0.10	0.10
2008/2/3	0.10	0.03	0.18	0.10	0.10	0.20
2008/2/4	0.10	0.03	0.20	0.10	0.10	0.10
2008/2/5	0.09	0.03	0.20	0.10	0.10	0.20
2008/2/6	0.10	0.03	0.20	0.10	0.10	0.20
2008/2/7	0.11	0.04	0.20	0.10	0.10	0.20
2008/2/8	0.14	0.03	0.21	0.10	0.10	0.10
<i>Monthly</i>	0.10	0.02	0.21	0.10	0.10	0.20