

3.4. Aquatic Biota

3.4.1 Rainy Season

Dominant zooplankton species are shown in Table 3.4.1.

Dominant phytoplankton species are shown in Table 3.4.2.

Dominant benthos species are shown in Table 3.4.3.

Distribution of chlorophyll-a by interpolation is shown in Figure 3.4.1.

Spatial distributions of aquatic biota composition are shown in Figure 3.4.2 to 3.4.9.

3.4.2 Dry Season

Dominant zooplankton species are shown in Table 3.4.4.

Dominant phytoplankton species are shown in Table 3.4.5.

Dominant benthos species are shown in Table 3.4.6.

Distribution of chlorophyll-a is shown in Figure 3.4.10.

Spatial distributions of aquatic biota are shown in Figure 3.4.10 to 3.4.17.

Table 3.4.1 Result of the Survey on Zooplankton (Rainy Season)

Zooplankton dominant species

Survey point	Total number of species	Total number of individuals (/m ³)	DOMINANT - 1	Number of individuals (/m ³)	%	DOMINANT - 2	Number of individuals (/m ³)	%	DOMINANT - 3	Number of individuals (/m ³)	%
P01	15	9,066	Copepodite of Copepoda	4,114	45.4	<i>Schmackeria poplesia</i>	3,189	35.2	<i>Penilia avirostris</i>	1,593	17.6
P02	14	1,182	Copepodite of Copepoda	524	44.3	<i>Schmackeria poplesia</i>	263	22.2	<i>Penilia avirostris</i>	114	9.6
P03	11	36,181	<i>Acartia sinensis</i>	17,813	49.2	Copepodite of Copepoda	13,475	37.2	<i>Schmackeria poplesia</i>	2,363	6.5
P04	15	1,453	<i>Schmackeria poplesia</i>	463	31.8	Copepodite of Copepoda	384	27.1	<i>Sinocalanus sinensis</i>	159	11.0
P05	15	4,194	Larva of Macrura	2,419	57.7	<i>Penilia avirostris</i>	875	20.9	Copepodite of Copepoda	350	8.3
P06	14	16,992	Copepodite of Copepoda	10,700	63.0	<i>Acartia sinensis</i>	5,233	30.8	<i>Schmackeria poplesia</i>	742	4.4
P07	13	379	<i>Paracalanus crassirostris</i>	135	35.7	Copepodite of Copepoda	113	29.7	<i>Acartia spinicauda</i>	56	14.8
P08	20	11,367	<i>Paracalanus crassirostris</i>	6,578	57.9	Copepodite of Copepoda	2,908	25.6	<i>Acartia sinensis</i>	1,228	10.8
P09	34	6,033	Copepodite of Copepoda	1,993	33.0	<i>Paracalanus crassirostris</i>	1,615	26.8	<i>Acartia sinensis</i>	1,009	16.7
P10	18	3,510	Copepodite of Copepoda	1,520	43.3	<i>Acartia biflora</i>	880	25.1	<i>Paracalanus crassirostris</i>	510	14.5
P11	23	16,387	<i>Paracalanus crassirostris</i>	4,704	28.7	<i>Schmackeria poplesia</i>	4,148	25.3	Copepodite of Copepoda	3,926	24.0
P12	26	12,585	Copepodite of Copepoda	4,919	39.1	<i>Paracalanus crassirostris</i>	3,719	29.6	<i>Acartia sinensis</i>	2,176	17.3
P13	19	24,355	<i>Paracalanus crassirostris</i>	14,470	59.4	Copepodite of Copepoda	6,575	27.0	<i>Acartia sinensis</i>	2,930	12.0
P14	19	34,738	<i>Paracalanus crassirostris</i>	13,525	38.9	Copepodite of Copepoda	12,725	36.6	<i>Acartia sinensis</i>	4,667	13.4
P15	27	36,117	<i>Acartia sinensis</i>	11,906	33.0	<i>Paracalanus crassirostris</i>	10,156	28.1	Copepodite of Copepoda	7,017	19.4
P16	33	10,265	<i>Paracalanus crassirostris</i>	4,493	43.8	Copepodite of Copepoda	3,141	30.6	<i>Acartia spinicauda</i>	1,445	14.1
P17	26	34,023	<i>Paracalanus crassirostris</i>	13,217	38.8	Copepodite of Copepoda	9,533	28.0	<i>Acartia spinicauda</i>	6,210	18.3
P18	41	5,073	<i>Paracalanus crassirostris</i>	2,472	48.7	Copepodite of Copepoda	2,065	40.7	<i>Acartia spinicauda</i>	126	2.5
P19	26	5,655	Copepodite of Copepoda	2,050	36.3	<i>Paracalanus crassirostris</i>	1,695	30.0	<i>Acartia spinicauda</i>	975	17.2
P20	55	5,946	<i>Paracalanus crassirostris</i>	1,913	32.2	Copepodite of Copepoda	1,874	31.5	<i>Acartia spinicauda</i>	1,376	23.1
P21	38	8,452	<i>Paracalanus crassirostris</i>	3,896	46.1	Copepodite of Copepoda	3,244	38.4	<i>Acartia spinicauda</i>	374	4.4
P22	58	6,431	<i>Paracalanus crassirostris</i>	3,512	54.6	Copepodite of Copepoda	1,477	23.0	<i>Acartia spinicauda</i>	221	3.4
P23	45	8,200	Copepodite of Copepoda	3,422	41.7	<i>Paracalanus crassirostris</i>	1,963	23.9	<i>Evadne tergestina</i>	1,463	17.8
P24	33	17,160	<i>Paracalanus crassirostris</i>	10,920	63.6	Copepodite of Copepoda	3,290	19.2	<i>Doliolotta gegenbauri</i>	1,263	7.4
P25	67	6,176	<i>Doliolotta gegenbauri</i>	1,914	31.0	<i>Evadne tergestina</i>	1,662	26.9	<i>Paracalanus crassirostris</i>	961	15.6
P26	38	18,146	<i>Paracalanus crassirostris</i>	11,888	65.5	Copepodite of Copepoda	3,567	19.7	<i>Oithona brevicornis</i>	1,079	5.9

Table 3.4.2(1) Result of the Survey on Phytoplankton (Upper Layer, Rainy Season)
Phytoplankton dominant species

Survey point	Total number of species	Total number of cells (/L)	DOMINANT - 1	Number of cells (/L)	%	DOMINANT - 2	Number of cells (/L)	%	DOMINANT - 3	Number of cells (/L)	%
P01	24	139,999	<i>Melosira granulata</i>	109,000	77.9	<i>Melosira granulata v. angustissima</i>	12,700	9.1	<i>Ankistrodesmus falcatus</i>	3,900	2.8
P02	12	179,975	<i>Melosira granulata</i>	165,000	91.7	<i>Melosira granulata v. angustissima</i>	9,380	5.2	<i>Coscinodiscus granii</i>	1,600	0.9
P03	14	6,058	<i>Melosira granulata</i>	1,210	20.0	<i>Fragilaria</i> sp.	1,010	16.7	<i>Melosira granulata v. angustissima</i>	606	10.0
P04	23	17,872	<i>Melosira granulata</i>	3,250	18.2	<i>Melosira granulata v. angustissima</i>	2,230	12.5	<i>Cyclotella</i> sp.	2,030	11.4
P05	12	35,985	<i>Melosira granulata</i>	25,100	69.8	<i>Cyclotella</i> sp.	2,490	6.9	<i>Fragilaria</i> sp.	2,490	6.9
P06	13	114,912	<i>Melosira granulata</i>	110,000	95.7	<i>Melosira granulata v. angustissima</i>	1,320	1.1	<i>Nitzschia paradoxa</i>	757	0.7
P07	11	40,249	<i>Skeltonema costatum</i>	30,300	75.3	<i>Cyclotella</i> sp.	2,150	5.3	<i>Melosira granulata v. angustissima</i>	1,790	4.3
P08	12	3,321	Micro-flagellates	627	18.9	<i>Skeltonema costatum</i>	564	17.0	<i>Merismopedia tenuissima</i>	501	15.1
P09	12	9,730	Micro-flagellates	4,331	44.5	<i>Protoperdinium</i> sp.	1,569	16.1	<i>Thalassiosira</i> sp.	1,506	15.5
P10	20	4,105,546	<i>Thalassiosira</i> sp.	4,086,780	99.5	<i>Skeltonema costatum</i>	5,146	0.1	<i>Cyclotella</i> sp.	2,720	0.1
P11	10	5,091	Micro-flagellates	1,587	31.2	<i>Thalassiosira</i> sp.	1,058	20.8	<i>Fragilaria</i> sp.	925	18.2
P12	11	3,639	Micro-flagellates	2,360	64.9	<i>Thalassiosira</i> sp.	262	7.2	<i>Nitzschia delicatissima</i>	229	6.3
P13	8	1,740	<i>Melosira granulata</i>	451	25.9	<i>Fragilaria</i> sp.	258	14.8	<i>Thalassionema nitzschioides</i>	258	14.8
P14	5	443	<i>Crucigenia tetrapedia</i>	137	30.9	<i>Fragilaria</i> sp.	102	23.0	<i>Synedra</i> sp.	68	15.3
P15	8	755	<i>Fragilaria</i> sp.	197	26.1	<i>Thalassiosira</i> sp.	131	17.4	Micro-flagellates	98	13.0
P16	7	1,818	Micro-flagellates	971	53.4	<i>Protoperdinium</i> sp.	470	25.9	<i>Fragilaria</i> sp.	157	8.6
P17	11	1,682	<i>Melosira granulata</i>	982	58.4	Micro-flagellates	175	10.4	<i>Peridinium</i> sp.	105	6.2
P18	13	787	<i>Thalassiosira</i> sp.	131	16.6	<i>Peridinium</i> sp.	98	12.5	<i>Nitzschia pungens</i>	98	12.5
P19	9	767	<i>Melosira granulata</i>	191	24.9	<i>Coscinodiscus</i> sp.	160	20.9	Micro-flagellates	128	16.7
P20	10	1,499	<i>Fragilaria</i> sp.	400	26.7	<i>Nitzschia delicatissima</i>	300	20.0	Micro-flagellates	233	15.5
P21	16	6,070	<i>Nitzschia delicatissima</i>	1,240	20.4	<i>Leptocylindrus danicus</i>	768	12.7	<i>Chaetoceros curvisetus</i>	639	10.9
P22	27	170,652	<i>Chaetoceros curvisetus</i>	51,000	29.9	<i>Leptocylindrus danicus</i>	35,200	20.6	<i>Rhizosolenia delicatula</i>	15,900	9.3
P23	24	26,800	<i>Chaetoceros curvisetus</i>	14,400	53.7	<i>Ditylum sol</i>	1,700	6.3	<i>Leptocylindrus danicus</i>	1,500	5.6
P24	28	25,553	<i>Chaetoceros curvisetus</i>	6730	26.3	<i>Nitzschia pungens</i>	2520	9.9	<i>Nitzschia delicatissima</i>	2210	8.6
P25	16	91,857	<i>Chaetoceros curvisetus</i>	70,400	76.6	<i>Leptocylindrus danicus</i>	9,660	10.5	Micro-flagellates	4,290	4.7
P26	0										

Note : Meshed column shows "Fresh water species"

Table 3.4.2(2) Result of the Survey on Phytoplankton (Middle Layer, Rainy Season)

Phytoplankton dominant species

Survey point	Total number of species	Total number of cells (/L)	DOMINANT - 1	Number of cells (/L)	%	DOMINANT - 2	Number of cells (/L)	%	DOMINANT - 3	Number of cells (/L)	%
P01	25	68,398	<i>Melosira granulata</i>	52,200	76.3	<i>Melosira granulata v. angustissima</i>	10,300	15.1	<i>Melosira varians</i>	1,780	2.6
P02	20	137,280	<i>Melosira granulata</i>	117,000	85.2	<i>Melosira granulata v. angustissima</i>	8,110	5.9	<i>Melosira varians</i>	2,230	1.6
P03	-	-	-	-	-	-	-	-	-	-	-
P04	21	16,950	<i>Cyclotella</i> sp.	3,540	20.9	<i>Ceratulina bergonii</i>	3,170	18.7	<i>Melosira granulata v. angustissima</i>	1,490	8.8
P05	-	-	-	-	-	-	-	-	-	-	-
P06	14	193,699	<i>Melosira granulata</i>	180,000	92.9	<i>Skeletonema costatum</i>	4,170	2.2	<i>Cyclotella</i> sp.	2,180	1.1
P07	15	16,282	<i>Skeletonema costatum</i>	7,780	47.8	<i>Cyclotella</i> sp.	1,730	10.6	<i>Melosira granulata v. angustissima</i>	1,440	8.8
P08	11	3,643	<i>Thalassiosira</i> sp.	767	21.1	<i>Cyclotella</i> sp.	703	19.3	Micro-flagellates	575	15.8
P09	9	9,058	<i>Thalassiosira</i> sp.	3,296	36.4	Micro-flagellates	2,880	31.8	<i>Cyclotella</i> sp.	1,440	15.9
P10	-	-	-	-	-	-	-	-	-	-	-
P11	9	2,839	Micro-flagellates	1,136	40.0	<i>Fragilaria</i> sp.	568	20.0	<i>Navicula</i> sp.	379	13.3
P12	7	2,467	Micro-flagellates	1,140	46.2	<i>Protoprividium</i> sp.	570	23.1	<i>Fragilaria</i> sp. <i>Cyclotella</i> sp. <i>Thalassiosira</i> sp.	190	7.7
P13	-	-	-	-	-	-	-	-	-	-	-
P14	5	1,519	<i>Nitzschia delicatissima</i>	506	33.3	<i>Synedra</i> sp.	443	29.2	<i>Fragilaria</i> sp.	317	20.9
P15	8	2,142	<i>Fragilaria</i> sp.	663	31.0	Micro-flagellates	561	26.2	<i>Synedra</i> sp.	306	14.3
P16	8	3,452	<i>Fragilaria</i> sp.	1,150	33.3	Micro-flagellates	575	16.7	<i>Nitzschia lorenziana</i>	575	16.7
P17	7	999	Micro-flagellates	281	28.1	<i>Nitzschia pungens</i>	210	21.0	<i>Fragilaria</i> sp.	175	17.5
P18	22	6,359	Micro-flagellates	2,370	37.3	<i>Chaetoceros curvisetus</i>	550	8.6	<i>Chattonella</i> sp.	516	8.1
P19	8	14,394	<i>Melosira granulata</i>	8,450	58.7	<i>Fragilaria</i> sp.	1,880	13.1	<i>Coccinodiscus</i> sp.	1,560	10.8
P20	15	3,374	<i>Nitzschia delicatissima</i>	562	16.7	<i>Amphipora</i> sp.	482	14.3	<i>Thalassionema nitzschoides</i>	402	11.9
P21	10	193,742	<i>Nitzschia delicatissima</i>	171,000	88.3	<i>Nitzschia lorenziana</i>	17,100	8.8	Micro-flagellates	1,710	0.9
P22	24	33,649	<i>Chaetoceros curvisetus</i>	11,800	35.1	<i>Rhizosolenia fragilissima</i>	3,530	10.5	<i>Nitzschia pungens</i>	3,230	9.6
P23	16	38,092	<i>Chaetoceros curvisetus</i>	22,300	58.5	<i>Skeletonema costatum</i>	2,820	7.4	<i>Rhizosolenia stokerfothii</i>	2,510	6.6
P24	15	13,478	<i>Nitzschia delicatissima</i>	5,540	41.1	<i>Chaetoceros lorenzianus</i>	1,630	12.1	<i>Leptocylindrus danicus</i>	1,200	8.9
P25	17	393,148	<i>Chaetoceros curvisetus</i>	240,000	61.0	<i>Leptocylindrus danicus</i>	57,200	14.5	<i>Rhizosolenia stokerfothii</i>	29,800	7.6
P26	27	97,791	<i>Bacteriastrium varians</i>	48,400	49.5	<i>Chaetoceros curvisetus</i>	7,600	7.8	<i>Leptocylindrus danicus</i>	6,010	6.1

Note : Meshed column shows "Fresh water species"

Table 3.4.2(3) Result of the Survey on Phytoplankton (Bottom Layer, Rainy Season)
Phytoplankton dominant species

Survey point	Total number of species	Total number of cells (/L)	DOMINANT-1	Number of cells (/L)	%	DOMINANT-2	Number of cells (/L)	%	DOMINANT-3	Number of cells (/L)	%
P01	16	100,650	<i>Melosira granulata</i>	83,100	82.6	<i>Melosira granulata v. angustissima</i>	6,660	6.6	<i>Melosira varians</i>	5,240	5.2
P02	17	191,314	<i>Melosira granulata</i>	156,000	81.5	Micro-flagellates	11,800	6.2	<i>Coscinodiscus granii</i>	5,000	2.6
P03	21	39,803	<i>Melosira granulata</i>	7,370	18.5	<i>Cyclotella</i> sp.	4,910	12.3	<i>Melosira granulata v. angustissima</i>	3,440	8.6
P04	19	27,580	<i>Melosira granulata</i>	7,320	26.5	<i>Melosira granulata v. angustissima</i>	5,130	18.6	Micro-flagellates	2,930	10.6
P05	14	58,366	<i>Melosira granulata</i>	45,500	78.0	<i>Skeletonema costatum</i>	4,800	8.2	<i>Melosira granulata v. angustissima</i>	1,730	3.0
P06	15	215,091	<i>Melosira granulata</i>	200,000	93.0	<i>Cyclotella</i> sp.	4,010	1.9	<i>Nitzschia paradoxa</i>	3,440	1.6
P07	15	5,054	<i>Skeletonema costatum</i>	1,660	32.8	<i>Melosira granulata</i>	1,110	22.0	<i>Fragilaria</i> sp.	415	8.2
P08	10	6,370	<i>Melosira granulata</i>	2,870	45.1	<i>Skeletonema costatum</i>	1,270	19.9	Micro-flagellates	1,020	16.0
P09	20	18,662	<i>Cyclotella</i> sp.	4,790	25.7	Micro-flagellates	2,180	11.7	<i>Nitzschia pungens</i>	1,520	8.1
P10	17	3,004,068	<i>Thalassiosira</i> sp.	2,986,560	99.4	<i>Cyclotella</i> sp.	4,380	0.1	<i>Skeletonema costatum</i>	2,790	0.1
P11	11	2,377	<i>Cyclotella</i> sp.	475	20.0	<i>Fragilaria</i> sp.	407	17.1	<i>Nitzschia paradoxa</i>	407	17.1
P12	9	8,204	<i>Skeletonema costatum</i>	3,897	47.5	Micro-flagellates	2,360	28.8	<i>Protoperidinium</i> sp.	531	6.5
P13	4	2,086	Micro-flagellates	1,460	70.0	<i>Fragilaria</i> sp.	313	15.0	<i>Cyclotella</i> sp.	209	10.0
P14	8	10,098	<i>Cyclotella</i> sp.	2,620	25.9	Micro-flagellates	1,870	18.5	<i>Fragilaria</i> sp.	1,870	18.5
P15	10	21,593	<i>Skeletonema costatum</i>	13,284	61.5	<i>Fragilaria</i> sp.	2,190	11.5	<i>Synedra</i> sp.	1,940	9.0
P16	9	11,596	<i>Skeletonema costatum</i>	4,280	36.9	<i>Fragilaria</i> sp.	2,500	21.6	Micro-flagellates	2,140	18.5
P17	6	2,266	Micro-flagellates	755	33.3	<i>Cyclotella</i> sp.	566	25.0	<i>Nitzschia pungens</i>	378	16.7
P18	16	6,014	<i>Nitzschia pungens</i>	1,340	22.3	Micro-flagellates	1,110	18.5	<i>Fragilaria</i> sp.	669	11.1
P19	8	12,985	<i>Fragilaria</i> sp.	3,390	26.1	<i>Coscinodiscus</i> sp.	2,820	21.7	<i>Skeletonema costatum</i>	2,260	17.4
P20	14	10,094	<i>Fragilaria</i> sp.	1,760	17.4	<i>Nitzschia delicatissima</i>	1,470	14.6	<i>Melosira sulcata</i>	1,180	11.7
P21	14	16,109	<i>Nitzschia delicatissima</i>	5,020	31.2	<i>Rhizosolenia stouterfothii</i>	2,090	13.0	<i>Lauderia borealis</i>	1,880	11.7
P22	27	40,545	<i>Chaetoceros curvisetus</i>	14,600	36.0	<i>Chaetoceros lorenzianus</i>	3,330	8.2	<i>Rhizosolenia stouterfothii</i>	3,030	7.5
P23	18	5,620	<i>Chaetoceros curvisetus</i>	655	11.7	<i>Ditylum sol</i>	562	10.0	<i>Dactylosolen mediterraneus</i>	562	10.0
P24	20	18,254	<i>Chaetoceros curvisetus</i>	3,640	19.9	<i>Nitzschia delicatissima</i>	1,820	10.0	Micro-flagellates	1,650	9.0
P25	18	82,669	<i>Chaetoceros curvisetus</i>	60,700	73.4	<i>Rhizosolenia stouterfothii</i>	3,340	4.0	<i>Skeletonema costatum</i>	2,870	3.5
P26	19	3,114	<i>Chaetoceros curvisetus</i>	1,500	48.2	<i>Thalassionema nitzschoides</i>	337	10.8	<i>Chaetoceros pseudocurvisetus</i>	150	4.8

Note : Meshed column shows "Fresh water species"

Table 3.4.3(1) Result of the Survey on Benthos (Number of Individuals, Rainy Season)

Benthos dominant species

Survey point	Total number of species	Total number of individuals (/m ²)	DOMINANT—1	Number of individuals (/m ²)	%	DOMINANT—2	Number of individuals (/m ²)	%	DOMINANT—3	Number of individuals (/m ²)	%
P01	1	2.5	<i>Odontamblyopus rubicundus</i>	3	100.0	—	—	—	—	—	—
P02	1	2.5	<i>Aglaophamus lyrochacto</i>	3	100.0	—	—	—	—	—	—
P03	1	25.0	<i>Varuna litterata</i>	25	100.0	—	—	—	—	—	—
P04	1	22.5	<i>Varuna litterata</i>	23	100.0	—	—	—	—	—	—
P05	—	—	—	—	—	—	—	—	—	—	—
P06	2	20.0	<i>Potamocorbula laevis</i>	10	50.0	<i>Heteromastus filiformis</i>	10.0	50.0	—	—	—
P07	1	5.0	<i>Heteromastus filiformis</i>	5	100.0	—	—	—	—	—	—
P08	3	30.0	<i>Potamocorbula laevis</i>	25	83.3	<i>Phyllodoce chinensis</i>	2.5	8.3	<i>Glycera alba</i>	2.5	8.3
P09	11	45.0	<i>Heteromastus filiformis</i>	10	22.2	<i>Glycera alba</i>	7.5	16.7	<i>Cavernularia obesa</i>	5.0	11.1
P10	2	22.5	<i>Tylosereis bogoyawleskyi</i>	20	88.9	<i>Cavernularia obesa</i>	2.5	11.1	—	—	—
P11	7	19,340.0	<i>Potamocorbula laevis</i>	19,320	99.9	<i>Amphiopterus laevis</i>	5.0	0.03	<i>Heteromastus filiformis</i>	5.0	0.03
P12	10	27,207.5	<i>Potamocorbula laevis</i>	27,125	99.7	<i>Balanus reticulatus</i>	20.0	0.07	<i>Nucula tenuis</i>	17.5	0.06
P13	1	5.0	<i>Capitella capitata</i>	5	100.0	—	—	—	—	—	—
P14	2	7.5	<i>Heteromastus filiformis</i>	5	66.7	<i>Odontamblyopus rubicundus</i>	2.5	33.3	—	—	—
P15	2	5.0	<i>Heteromastus filiformis</i>	3	50.0	<i>Oxyurichthys tentacularis</i>	2.5	50.0	—	—	—
P16	7	35.0	<i>Protankyra bidentata</i>	15	42.9	<i>Neoxenophthalmus obscurus</i>	7.5	21.4	<i>Eulalia viridis</i>	2.5	7.1
P17	3	20.0	<i>Heteromastus filiformis</i>	13	62.5	<i>Potamocorbula laevis</i>	5.0	25.0	<i>Hexapinus granuliferus</i>	2.5	12.5
P18	5	20.0	<i>Protankyra bidentata</i>	8	37.5	<i>Hexapinus granuliferus</i>	5.0	25.0	<i>Paphia undulata</i> <i>Capitella capitata</i>	2.5	12.5
P19	16	8,665.0	<i>Potamocorbula laevis</i>	8,438	97.4	<i>Balanus reticulatus</i>	147.5	1.7	<i>Protankyra bidentata</i>	22.5	0.26
P20	19	200.0	<i>Nassarius siguijovensis</i>	60	30.0	<i>Nassarius festivus</i>	32.5	16.3	<i>Nassarius succinctus</i>	22.5	11.3
P21	10	27.5	<i>Typhlocarcinus villosus</i>	5	18.2	<i>Neoxenophthalmus obscurus</i>	2.5	9.1	<i>Scalopidia spinosipes</i>	2.5	9.1
P22	16	137.5	<i>Listriolobus brevirostris</i>	40	29.1	<i>Hexapinus granuliferus</i>	35.0	25.5	<i>Paphia undulata</i>	12.5	9.1
P23	16	80.0	<i>Neoxenophthalmus obscurus</i>	18	21.9	<i>Amphiopterus laevis</i>	15.0	18.8	<i>Hexapinus granuliferus</i>	10.0	12.5
P24	9	52.5	<i>Sitiqua minima</i>	18	33.3	<i>Heteromastus filiformis</i>	10.0	19.0	<i>Nassarius variciferus</i> <i>Nassarius hepaticus</i>	5.0	9.5
P25	17	142.5	<i>Minolia chinensis</i>	53	36.8	<i>Amphiopterus laevis</i>	12.5	8.8	<i>Listriolobus brevirostris</i>	12.5	8.8
P26	15	157.5	<i>Turritella bacillum</i>	55	34.9	<i>Sitiqua minima</i>	30.0	19.0	<i>Nassarius succinctus</i>	17.5	11.1

Table 3.4.3(2) Result of the Survey on Benthos (Wet Weight, Rainy Season)

Benthos dominant species

Survey point	Total number of species	Total wet weight (g/m ²)	DOMINANT—1	Wet weight (g/m ²)	%	DOMINANT—2	Wet weight (g/m ²)	%	DOMINANT—3	Wet weight (g/m ²)	%
P01	1	15.50	<i>Odontamblyopus rubicundus</i>	16	100.0	—	—	—	—	—	—
P02	1	0.25	<i>Aglaophamus lyrochaeto</i>	0	100.0	—	—	—	—	—	—
P03	1	4.88	<i>Varuna litterata</i>	5	100.0	—	—	—	—	—	—
P04	1	9.20	<i>Varuna litterata</i>	9	100.0	—	—	—	—	—	—
P05	—	—	—	—	—	—	—	—	—	—	—
P06	2	1.33	<i>Potamocorbula laevis</i>	1	88.7	<i>Heteromastus filiformis</i>	0.15	11.3	—	—	—
P07	1	0.13	<i>Heteromastus filiformis</i>	0	100.0	—	—	—	—	—	—
P08	3	1.71	<i>Potamocorbula laevis</i>	1	70.2	<i>Phylodoce chinensis</i>	0.28	16.4	<i>Glycera alba</i>	0.23	13.5
P09	11	11.48	<i>Elucate costata</i>	7	60.1	<i>Glycera alba</i>	1.13	9.8	<i>Cavernularia obesa</i>	0.95	8.3
P10	2	11.05	<i>Tylonereis bogoyawleskyi</i>	10	92.8	<i>Cavernularia obesa</i>	0.80	7.2	—	—	—
P11	7	1,053.27	<i>Potamocorbula laevis</i>	1,050	99.7	<i>Cavernularia obesa</i>	1.50	0.14	<i>Nassarius variciferus</i>	0.63	0.06
P12	10	446.93	<i>Potamocorbula laevis</i>	438	97.9	<i>Nassarius variciferus</i>	4.70	1.1	<i>Nassarius siquijorensis</i>	1.73	0.4
P13	1	0.13	<i>Capitella capitata</i>	0	100.0	—	—	—	—	—	—
P14	2	0.81	<i>Odontamblyopus rubicundus</i>	1	65.4	<i>Heteromastus filiformis</i>	0.28	34.6	—	—	—
P15	2	0.20	<i>Heteromastus filiformis</i>	0	50.0	<i>Oxyurichthys tentacularis</i>	0.10	50.0	—	—	—
P16	7	30.27	<i>Protankyra bidentata</i>	23	77.5	<i>Eulalia viridis</i>	2.03	6.7	<i>Acaudina molpadioides</i>	2.50	8.3
P17	3	1.03	<i>Heteromastus filiformis</i>	1	58.3	<i>Potamocorbula laevis</i>	0.35	34.0	<i>Hexapinus grandiferus</i>	0.08	7.8
P18	5	9.57	<i>Protankyra bidentata</i>	7	74.0	<i>Paphia undulata</i>	1.38	14.4	<i>Neoxenopthalmus obscurus</i>	0.73	7.6
P19	16	411.49	<i>Potamocorbula laevis</i>	313	75.9	<i>Turritella bacillum</i>	31.88	7.7	<i>Paphia undulata</i>	27.88	6.8
P20	19	22.79	<i>Nassarius siquijorensis</i>	4	17.9	<i>Alpheus rapacida</i>	3.70	16.2	<i>Oratosquilla oratoria</i>	2.85	12.5
P21	10	4.50	<i>Neoxenopthalmus obscurus</i>	1	24.0	<i>Scalopidia spinosipes</i>	0.80	17.8	<i>Glycera alba</i>	0.73	16.2
P22	16	98.07	<i>Paphia undulata</i>	33	34.1	<i>Listriolobus brevirostris</i>	23.98	24.5	<i>Mabellarca consociata</i>	19.00	19.4
P23	16	39.96	<i>Ctenotrypauchen microcephalu</i>	12	29.3	<i>Turritella bacillum</i>	6.13	15.3	<i>Neoxenopthalmus obscurus</i>	4.25	10.6
P24	9	6.55	<i>Lophiotoma leucotropis</i>	2	37.4	<i>Siliqua minima</i>	2.30	35.1	<i>Nassarius variciferus</i>	0.68	10.4
P25	17	35.05	<i>Mabellarca consociata</i>	17	47.9	<i>Minolia chinensis</i>	4.45	12.7	<i>Listriolobus brevirostris</i>	4.38	12.5
P26	15	141.26	<i>Turritella bacillum</i>	86	60.6	<i>Siliqua minima</i>	18.83	13.3	<i>Macoma praerupta</i>	11.93	8.4

Table 3.4.4 Result of the Survey on Zooplankton (Dry Season)
Zooplankton dominant species

Survey point	Total number of species	Total number of individuals (/m ³)	DOMINANT-1	Number of individuals (/m ³)	%	DOMINANT-2	Number of individuals (/m ³)	%	DOMINANT-3	Number of individuals (/m ³)	%
P01	22	5,209	Copepoda larvae	1,784	34.2	<i>Paracalanus crassirostris</i>	1,203	23.1	<i>Schmackeria poplesia</i>	1,119	21.5
P02	44	6,083	Copepoda larvae	2,898	47.6	<i>Paracalanus crassirostris</i>	1,681	27.6	<i>Acartiella sinensis</i>	591	9.7
P03	28	1,957	Copepoda larvae	717	36.6	<i>Paracalanus crassirostris</i>	620	31.7	<i>Acartiella sinensis</i>	227	11.6
P04	24	11,071	<i>Acartiella sinensis</i>	3,543	32.0	Copepoda larvae	2,300	20.8	<i>Podon schmackeri</i>	1,940	17.5
P05	42	32,830	Copepoda larvae	21,720	66.2	<i>Paracalanus crassirostris</i>	5,694	17.3	<i>Oithona brevicornis</i>	1,528	4.7
P06	40	6,626	<i>Paracalanus crassirostris</i>	3,889	58.7	Copepoda larvae	734	11.1	<i>Oithona brevicornis</i>	547	8.3
P07	22	10,758	Copepoda larvae	4,122	38.3	<i>Paracalanus crassirostris</i>	3,656	34.0	<i>Acartiella sinensis</i>	2,430	22.6
P08	47	8,272	Copepoda larvae	4,757	57.5	<i>Paracalanus crassirostris</i>	1,136	13.7	<i>Paracalanus aculeatus</i>	712	8.6
P09	56	10,606	Copepoda larvae	5,296	49.9	<i>Paracalanus crassirostris</i>	1,408	13.3	<i>Paracalanus aculeatus</i>	961	9.1
P10	24	2,540	Copepoda larvae	990	39.0	<i>Oikopleura rufescens</i>	310	12.2	<i>Oikopleura albicaud</i>	290	11.4
P11	47	13,644	Copepoda larvae	7,333	53.7	<i>Paracalanus crassirostris</i>	1,583	11.6	<i>Paracalanus aculeatus</i>	694	5.1
P12	60	2,494	Copepoda larvae	1,007	40.4	<i>Paracalanus crassirostris</i>	420	16.8	<i>Oithona brevicornis</i>	694	5.1
P14	34	3,105	Copepoda larvae	1,080	34.8	<i>Paracalanus crassirostris</i>	740	23.8	<i>Paracalanus aculeatus</i>	349	14.0
P15	42	26,308	Copepoda larvae	6,916	26.3	<i>Paracalanus crassirostris</i>	5,671	21.6	<i>Acartia spinicauda</i>	305	9.8
P16	53	10,487	Copepoda larvae	5,820	55.5	<i>Paracalanus crassirostris</i>	1,314	12.5	<i>Oithona brevicornis</i>	4,039	15.4
P17	27	952	Copepoda larvae	307	32.3	<i>Paracalanus aculeatus</i>	114	12.0	<i>Paracalanus crassirostris</i>	1,225	11.7
P18	50	7,034	Copepoda larvae	3,552	50.5	<i>Paracalanus crassirostris</i>	1,037	14.7	<i>Oikopleura rufescens</i>	86	9.0
P19	38	7,925	Copepoda larvae	3,500	44.2	<i>Oithona brevicornis</i>	833	10.5	<i>Paracalanus crassirostris</i>	603	8.6
P20	67	8,654	Copepoda larvae	4,243	49.0	<i>Paracalanus aculeatus</i>	1,030	11.9	<i>Paracalanus crassirostris</i>	595	7.5
P21	35	4,654	Copepoda larvae	2,112	45.4	<i>Paracalanus aculeatus</i>	864	18.6	<i>Paracalanus parvus</i>	617	7.1
P22	64	13,291	Copepoda larvae	7,789	58.6	<i>Paracalanus aculeatus</i>	1,227	9.2	<i>Paracalanus crassirostris</i>	764	16.4
P23	56	3,134	Copepoda larvae	1,379	44.0	<i>Paracalanus aculeatus</i>	396	12.7	<i>Microsetella norvegica</i>	869	6.5
P24	34	18,075	Copepoda larvae	8,478	46.9	<i>Paracalanus crassirostris</i>	3,706	20.5	<i>Paracalanus crassirostris</i>	231	7.4
P25	65	4,778	Copepoda larvae	2,538	53.1	<i>Paracalanus aculeatus</i>	744	15.6	<i>Paracalanus aculeatus</i>	2,572	14.2
P27	31	1,411	Copepoda larvae	395	28.0	<i>Oikopleura longicauda</i>	125	8.9	<i>Microsetella norvegica</i>	265	5.5
									<i>Paracalanus crassirostris</i>	100	7.1

Table 3.4.5(1) Result of the Survey on Phytoplankton (Upper Layer, Dry Season)
Phytoplankton dominant species on dry season

Survey point	Total number of species	Total number of cells (/L)	DOMINANT -1	Number of cells (/L)	%	DOMINANT -2	Number of cells (/L)	%	DOMINANT -3	Number of cells (/L)	%
P01	16	60,074	<i>Melosira granulata</i> v. <i>angustissima</i>	13,600	22.6	<i>Thalassiosira</i> sp.	10,200	17.0	<i>Cyclotella</i> sp.	9,490	15.8
P02	28	28,384	<i>Chaetoceros lorenzianum</i>	6,510	22.9	<i>Skeletonema costatum</i>	5,320	18.7	<i>Chaetoceros curvisetum</i>	2,760	9.7
P03	20	197,689	<i>Skeletonema costatum</i>	103,000	52.1	<i>Melosira granulata</i>	34,200	17.3	<i>Euglena</i> sp.	21,000	10.6
P04	24	416,320	<i>Melosira granulata</i>	109,000	26.2	<i>Thalassiosira</i> sp.	77,900	18.7	<i>Cyclotella</i> sp.	34,100	8.2
P05	21	93,523	<i>Melosira granulata</i>	16,900	17.4	<i>Skeletonema costatum</i>	9,650	10.3	<i>Chaetoceros lorenzianum</i>	9,050	9.7
P06	23	94,382	<i>Skeletonema costatum</i>	22,100	23.4	<i>Chaetoceros curvisetum</i>	21,400	22.7	<i>Chaetoceros lorenzianum</i>	16,400	17.4
P07	20	85,932	<i>Skeletonema costatum</i>	15,700	18.3	<i>Thalassiosira</i> sp.	13,800	16.1	<i>Melosira granulata</i>	11,800	13.7
P08	14	22,565	<i>Nitzschia delicatissima</i>	7,840	34.7	<i>Skeletonema costatum</i>	1,880	8.3	<i>Chaetoceros curvisetum</i> Micro-flagellates	1,570	7.0
P09	21	16,340	<i>Alexandrium</i> sp.	3,150	19.3	<i>Chaetoceros lorenzianum</i>	1,970	12.1	<i>Thalassionema nitzschioides</i>	1,380	8.4
P10	17	115,824	<i>Cerataulina bergonii</i>	51,400	44.4	<i>Skeletonema costatum</i>	20,900	18.0	<i>Thalassiosira rotula</i>	20,100	17.4
P11	19	29,286	<i>Chaetoceros curvisetum</i>	9,700	33.1	<i>Skeletonema costatum</i>	8,750	29.9	<i>Chaetoceros debile</i>	1,900	6.5
P12	17	13,598	<i>Chaetoceros curvisetum</i>	3,690	27.1	<i>Nitzschia delicatissima</i>	2,330	17.1	<i>Lauderia borealis</i>	1,940	14.3
P14	12	22,084	<i>Skeletonema costatum</i>	13,400	60.7	<i>Melosira granulata</i>	4,540	20.6	<i>Chaetoceros affine</i>	1,580	7.2
P15	9	5,350	<i>Skeletonema costatum</i>	1,190	22.2	<i>Nitzschia delicatissima</i>	1,190	22.2	<i>Thalassiosira</i> sp.	990	18.5
P16	31	134,448	<i>Chaetoceros curvisetum</i>	54,000	40.2	<i>Skeletonema costatum</i>	23,300	17.3	<i>Chaetoceros sociale</i>	7,390	5.5
P17	11	7,207	<i>Thalassiosira</i> sp.	2,240	31.1	Micro-flagellates	994	13.8	<i>Cyclotella</i> sp. <i>Navicula</i> sp.	745	10.3
P18	25	81,339	<i>Chaetoceros curvisetum</i>	30,700	37.7	<i>Chaetoceros sociale</i>	24,400	30.0	<i>Skeletonema costatum</i>	6,460	7.9
P19	19	50,330	<i>Skeletonema costatum</i>	34,100	67.8	<i>Cerataulina bergonii</i>	2,140	4.3	<i>Leptocylindrus danicus</i> <i>Chaetoceros pseudocurvisetum</i>	1,780	3.5
P20	24	157,186	<i>Chaetoceros curvisetum</i>	86,000	54.7	<i>Chaetoceros pseudocurvisetum</i>	20,000	12.7	<i>Chaetoceros sociale</i>	13,400	8.5
P21	11	5,548	<i>Thalassiosira</i> sp.	1,330	24.0	<i>Skeletonema costatum</i>	888	16.0	<i>Cyclotella</i> sp. <i>Coecinodiscus</i> sp. <i>Fragilaria</i> sp. <i>Synedra</i> sp. <i>Nitzschia delicatissima</i> Micro-flagellates	444	8.0
P22	33	299,513	<i>Chaetoceros curvisetum</i>	140,000	46.7	<i>Chaetoceros pseudocurvisetum</i>	80,100	26.7	<i>Chaetoceros sociale</i>	14,500	4.8
P23	27	132,550	<i>Chaetoceros curvisetum</i>	60,600	45.7	<i>Chaetoceros pseudocurvisetum</i>	25,800	19.5	<i>Thalassiosira rotula</i>	7,690	5.8
P24	12	9,009	<i>Skeletonema costatum</i>	4,110	45.6	<i>Leptocylindrus danicus</i>	979	10.9	<i>Cyclotella</i> sp. Micro-flagellates	784	8.7
P25	23	40,850	<i>Chaetoceros curvisetum</i>	16,200	39.7	<i>Thalassiosira rotula</i>	5,220	12.8	<i>Chaetoceros sociale</i>	3,190	7.8
P27	11	11,763	<i>Melosira granulata</i>	3,410	29.0	Micro-flagellates	1,900	16.2	<i>Thalassiosira</i> sp.	1,520	12.9

Note : Meshed column shows "Fresh water species"

Table 3.4.5(2) Result of the Survey on Phytoplankton (Middle Layer, Dry Season)
Phytoplankton dominant species

Survey point	Total number of species	Total number of cells (/L.)	DOMINANT - 1	Number of cells (/L.)	%	DOMINANT - 2	Number of cells (/L.)	%	DOMINANT - 3	Number of cells (/L.)	%
P01	18	57,580	<i>Melosira granulata</i>	16,100	28.0	<i>Fragilaria</i> sp.	6,020	10.5	<i>Coscinodiscus</i> sp.	5,690	9.9
P02	20	20,748	<i>Chaetoceros lorenzianum</i>	5,290	25.5	<i>Melosira granulata</i>	3,520	17.0	<i>Chaetoceros curvisetum</i>	2,740	13.2
P03											
P04	24	342,860	<i>Cyclotella</i> sp.	112,000	32.7	<i>Melosira granulata</i>	58,800	17.1	<i>Skeletonema costatum</i>	35,900	10.5
P05	17	71,382	<i>Skeletonema costatum</i>	20,800	29.1	<i>Chaetoceros lorenzianum</i>	14,900	20.9	<i>Thalassiosira</i> sp.	6,440	9.0
P06	26	139,342	<i>Nitzschia delicatissima</i>	37,800	27.1	<i>Skeletonema costatum</i>	27,300	19.6	<i>Chaetoceros lorenzianum</i>	16,900	12.1
P07	18	112,094	<i>Melosira granulata</i>	38,500	34.3	<i>Skeletonema costatum</i>	17,200	15.3	<i>Thalassiosira</i> sp.	14,200	12.7
P08	19	27,281	<i>Chaetoceros curvisetum</i>	9,021	33.1	<i>Skeletonema costatum</i>	3,690	13.5	<i>Cyclotella</i> sp.	3,080	11.3
P09	15	16,719	<i>Chaetoceros curvisetum</i>	4,910	29.4	<i>Ceratulina bergonii</i>	2,730	16.3	<i>Thalassiosira rotula</i>	2,540	15.2
P10											
P11	20	18,718	<i>Chaetoceros curvisetum</i>	9,360	50.0	<i>Skeletonema costatum</i>	1,680	9.0	<i>Ceratulina bergonii</i>	1,220	6.5
P12	28	36,526	<i>Ceratulina bergonii</i>	7,340	20.1	<i>Chaetoceros curvisetum</i>	7,340	20.1	<i>Skeletonema costatum</i>	4,330	11.9
P14											
P15	9	5,782	<i>Cyclotella</i> sp.	1,510	26.1	<i>Thalassiosira</i> sp.	1,510	26.1	<i>Fragilaria</i> sp.	754	13.0
P16	18	106,013	<i>Chaetoceros curvisetum</i>	37,200	35.1	<i>Skeletonema costatum</i>	20,000	18.9	<i>Chaetoceros sociale</i>	12,200	11.5
P17	14	6,469	<i>Thalassiosira</i> sp.	1,140	17.6	<i>Cyclotella</i> sp.	952	14.7	<i>Skeletonema costatum</i>	952	14.7
P18	24	129,801	<i>Chaetoceros curvisetum</i>	62,800	48.4	<i>Chaetoceros pseudocurvisetum</i>	12,500	9.6	<i>Chaetoceros sociale</i>	11,300	8.7
P19	31	188,887	<i>Chaetoceros curvisetum</i>	71,000	37.6	<i>Chaetoceros pseudocurvisetum</i>	59,000	31.2	<i>Chaetoceros sociale</i>	14,600	7.7
P20	26	209,040	<i>Chaetoceros curvisetum</i>	90,900	43.5	<i>Chaetoceros pseudocurvisetum</i>	51,100	24.4	<i>Chaetoceros sociale</i>	22,500	10.8
P21	8	3,743	<i>Cyclotella</i> sp.	1,070	28.6	<i>Skeletonema costatum</i>	535	14.3	<i>Fragilaria</i> sp.	535	14.3
P22	34	459,694	<i>Chaetoceros curvisetum</i>	206,000	44.8	<i>Chaetoceros pseudocurvisetum</i>	122,000	26.5	<i>Nitzschia delicatissima</i>	535	14.3
P23	28	178,781	<i>Chaetoceros curvisetum</i>	83,400	46.6	<i>Chaetoceros pseudocurvisetum</i>	31,400	17.6	<i>Chaetoceros sociale</i>	16,800	3.7
P24											
P25	25	41,312	<i>Chaetoceros pseudocurvisetum</i>	11,800	28.1	<i>Chaetoceros curvisetum</i>	10,500	25.4	<i>Melosira sulcata</i>	4,190	10.1
P27	12	12,463	<i>Ceratulina compacta</i>	3,500	28.1	<i>Skeletonema costatum</i>	1,950	15.6	<i>Thalassiosira</i> sp.	1,560	12.5

Note : Meshed column shows "Fresh water species"

Table 3.4.5(3) Result of the Survey on Phytoplankton (Bottom Layer, Dry Season)
Phytoplankton dominant species

Survey point	Total number of species	Total number of cells (/L)	DOMINANT-1	Number of cells (/L)	%	DOMINANT-2	Number of cells (/L)	%	DOMINANT-3	Number of cells (/L)	%
P01	20	116,878	<i>Skeletonema costatum</i>	19,000	16.3	<i>Cyclotella</i> sp.	17,600	15.1	<i>Coscinodiscus</i> sp.	15,500	13.3
P02	18	43,743	<i>Melosira granulata</i>	9,230	21.2	<i>Skeletonema costatum</i>	7,740	17.7	<i>Cyclotella</i> sp.	6,580	15.0
P03	27	398,520	<i>Skeletonema costatum</i>	244,000	61.2	<i>Melosira granulata</i>	73,900	18.5	<i>Cyclotella</i> sp.	14,400	3.6
P04	22	386,708	<i>Melosira granulata</i>	179,000	46.3	<i>Thalassiosira</i> sp.	86,800	22.4	<i>Cyclotella</i> sp.	41,900	10.8
P05	22	109,333	<i>Skeletonema costatum</i>	34,500	31.6	<i>Cyclotella</i> sp.	14,400	13.2	<i>Dactylosolen mediterraneus</i>	12,000	11.0
P06	21	88,747	<i>Skeletonema costatum</i>	19,400	21.9	<i>Chaetoceros lorenzianum</i>	10,700	12.1	<i>Melosira granulata</i>	9,520	10.7
P07	24	113,179	<i>Melosira granulata</i>	37,600	33.2	<i>Skeletonema costatum</i>	16,600	14.7	<i>Thalassiosira</i> sp.	10,700	9.5
P08	13	17,831	<i>Melosira granulata</i>	4,460	25.0	<i>Cyclotella</i> sp.	3,860	21.6	<i>Navicula</i> sp.	1,780	10.0
P09	19	28,278	<i>Chaetoceros curvisetum</i>	9,970	35.3	<i>Skeletonema costatum</i>	7,530	26.6	<i>Ceratulina bergonii</i>	2,440	8.6
P10	22	78,677	<i>Thalassiosira rotula</i>	23,900	30.4	<i>Ceratulina bergonii</i>	16,500	21.0	<i>Skeletonema costatum</i>	10,600	13.5
P11	28	43,194	<i>Chaetoceros curvisetum</i>	25,800	59.7	<i>Skeletonema costatum</i>	2,950	6.8	<i>Chaetoceros debile</i>	1,850	4.3
P12	21	80,677	<i>Chaetoceros curvisetum</i>	46,300	57.4	<i>Thalassionema nitzschoides</i>	10,800	13.4	<i>Chaetoceros compressum</i>	3,330	4.1
P14	14	29,340	<i>Skeletonema costatum</i>	18,000	61.3	<i>Chaetoceros lauderi</i>	3,200	10.9	<i>Nitzschia delicatissima</i>	2,220	7.6
P15	9	11,958	<i>Skeletonema costatum</i>	4,880	40.8	<i>Cyclotella</i> sp.	1,710	14.3	<i>Thalassiosira</i> sp.	1,220	10.2
P16	26	159,819	<i>Chaetoceros curvisetum</i>	51,800	34.3	<i>Chaetoceros sociale</i>	28,600	19.0	<i>Skeletonema costatum</i>	26,600	17.6
P17	10	12,192	<i>Skeletonema costatum</i>	2,810	23.0	<i>Thalassiosira</i> sp.	1,880	15.4	<i>Nitzschia delicatissima</i>	1,880	15.4
P18	32	118,671	<i>Chaetoceros curvisetum</i>	50,400	42.5	<i>Chaetoceros sociale</i>	21,100	17.8	<i>Chaetoceros pseudocurvisetum</i>	11,100	9.4
P19	22	155,378	<i>Chaetoceros curvisetum</i>	59,200	38.1	<i>Chaetoceros pseudocurvisetum</i>	30,500	19.6	<i>Chaetoceros sociale</i>	20,500	13.2
P20	29	284,926	<i>Chaetoceros curvisetum</i>	169,000	59.3	<i>Chaetoceros pseudocurvisetum</i>	53,200	18.7	<i>Chaetoceros sociale</i>	13,800	4.8
P21	14	13,782	<i>Chaetoceros affine</i>	4,220	30.6	<i>Skeletonema costatum</i>	2,810	20.4	<i>Thalassiosira</i> sp.	2,250	16.3
P22	30	388,655	<i>Chaetoceros curvisetum</i>	133,000	34.4	<i>Chaetoceros pseudocurvisetum</i>	98,000	25.3	<i>Chaetoceros sociale</i>	33,900	8.8
P23	26	146,037	<i>Chaetoceros curvisetum</i>	76,700	52.5	<i>Chaetoceros pseudocurvisetum</i>	22,000	15.1	<i>Hemiaulus sinensis</i>	6,810	4.7
P24	12	11,954	<i>Skeletonema costatum</i>	2,990	25.0	<i>Nitzschia delicatissima</i>	1,870	15.6	<i>Micro-flugellates</i>	1,490	12.5
P25	32	63,346	<i>Chaetoceros curvisetum</i>	23,400	36.9	<i>Chaetoceros pseudocurvisetum</i>	17,300	27.3	<i>Thalassiosira rotula</i>	4,190	6.6
P27	11	14,431	<i>Thalassiosira</i> sp.	3,060	21.2	<i>Skeletonema costatum</i>	2,190	15.2	<i>Cyclotella</i> sp.	1,750	12.1
									<i>Melosira granulata</i>	1,750	12.1

Note: Meshed column shows "Fresh water species"

Table 3.4.6(1) Result of the Survey on Benthos (Number of Individuals, Dry Season)
Benthos dominant species

Survey point	Total number of species	Total number of individuals (/m ²)	DOMINANT—1	Number of individuals (/m ²)	%	DOMINANT—2	Number of individuals (/m ²)	%	DOMINANT—3	Number of individuals (/m ²)	%
P01	2	5.0	<i>Potamocorbula laevis</i>	2.5	50.0	<i>Lumbrineris heteropoda</i>	2.5	50.0	—	—	—
P02	2	10.0	<i>Corbicula fluminea</i>	7.5	75.0	<i>Potamocorbula laevis</i>	2.5	25.0	—	—	—
P03	2	7.5	<i>Potamocorbula laevis</i>	5.0	66.7	<i>Lumbrineris heteropoda</i>	2.5	33.3	—	—	—
P04	1	2.5	<i>Paraprionospio pinnata</i>	2.5	100.0	—	—	—	—	—	—
P05	2	15.0	<i>Potamocorbula laevis</i>	10.0	66.7	<i>Balanus reticulatus</i>	5.0	33.3	—	—	—
P06	5	25.0	<i>Nassarius siquijorensis</i>	7.5	30.0	<i>Nassarius thersites</i>	7.5	30.0	<i>Atlanta</i> sp.	5.0	20.0
P07	2	5.0	<i>Paraprionospio pinnata</i>	2.5	50.0	<i>Heteromastus filiformis</i>	2.5	50.0	—	—	—
P08	6	4,897.5	<i>Potamocorbula laevis</i>	4,880.0	99.6	<i>Nassarius festivus</i>	5.0	0.1	<i>Nassarius succinctus</i>	5.0	0.1
P09	14	110.0	<i>Minolia chinensis</i>	52.5	47.7	<i>Turritella bacillum</i>	12.5	11.4	<i>Cavernularia obesa</i>	7.5	6.8
P10	3	15.0	<i>Elasmodes acutus</i>	7.5	50.0	<i>Nassarius succinctus</i>	5.0	33.3	<i>Nassarius siquijorensis</i>	2.5	16.7
P11	8	2,687.5	<i>Potamocorbula laevis</i>	2,680.0	99.0	<i>Amphioptus laevis</i>	7.5	0.3	<i>Nassarius succinctus</i>	5.0	0.2
P12	8	2,712.5	<i>Potamocorbula laevis</i>	2,685.0	99.0	<i>Nassarius succinctus</i>	10.0	0.4	<i>Balanus reticulatus</i>	5.0	0.2
P14	1	1,610.0	<i>Potamocorbula laevis</i>	1,610.0	100.0	—	—	—	—	—	—
P15	5	6,594.5	<i>Potamocorbula laevis</i>	6,582.0	99.5	<i>Balanus reticulatus</i>	22.5	0.3	<i>Nassarius succinctus</i>	5.0	0.1
P16	18	112.5	<i>Nassarius succinctus</i>	22.5	20.0	<i>Hexapus granuliferus</i>	20.0	17.8	<i>Potamocorbula laevis</i>	15.0	13.3
P17	3	4,809.5	<i>Potamocorbula laevis</i>	4,772.0	99.2	<i>Balanus reticulatus</i>	30.0	0.6	<i>Nassarius succinctus</i>	7.5	0.2
P18	20	115.0	<i>Glycera alba</i>	22.5	19.6	<i>Hexapus granuliferus</i>	15.0	13.0	<i>Nassarius succinctus</i>	12.5	10.9
P19	15	275.0	<i>Potamocorbula laevis</i>	160.0	58.2	<i>Nucula tenuis</i>	52.5	19.1	<i>Balanus reticulatus</i>	20.0	10.9
P20	15	120.0	<i>Nassarius siquijorensis</i>	47.5	39.6	<i>Neoxenophthalmus obscurus</i>	22.5	18.8	<i>Nassarius succinctus</i>	12.5	10.4
P21	16	550.0	<i>Potamocorbula laevis</i>	412.5	75.0	<i>Nucula tenuis</i>	60.0	10.9	<i>Nassarius siquijorensis</i>	17.5	3.2
P22	13	55.0	<i>Aglaophamus lyrochaeto</i>	12.5	22.7	<i>Paphia undulata</i>	7.5	13.6	<i>Amphioptus laevis</i>	7.5	13.6
P23	19	90.0	<i>Amphioptus laevis</i>	20.0	22.2	<i>Nassarius succinctus</i>	7.5	8.3	<i>Turricula neliiae</i>	7.5	8.3
P24	15	180.0	<i>Listriolobus brevisrostris</i>	40.0	22.2	<i>Macoma candida</i>	37.5	20.8	<i>Paraprionospio pinnata</i>	30.0	16.7
P25	19	97.5	<i>Minolia chinensis</i>	10.0	10.3	<i>Lumbrineris heteropoda</i>	10.0	10.3	<i>Heteromastus filiformis</i>	10.0	10.3
P27	5	80.0	<i>Turritella bacillum</i>	45.0	56.3	<i>Minolia chinensis</i>	25.0	31.3	<i>Nassarius succinctus</i>	5.0	6.3

Table 3.4.6(2) Result of the Survey on Benthos (Wet Weight, Dry Season)
Benthos dominant species

Survey point	Total number of species	Total wet weight (g/m ²)	DOMINANT - 1	Wet weight (g/m ²)	%	DOMINANT - 2	Wet weight (g/m ²)	%	DOMINANT - 3	Wet weight (g/m ²)	%
P01	2	0.18	<i>Potamocorbula laevis</i>	0.10	55.6	<i>Lumbrineris heteropoda</i>	0.08	44.4	—	—	—
P02	2	0.28	<i>Corbicula fluminea</i>	0.15	53.6	<i>Potamocorbula laevis</i>	0.13	46.4	—	—	—
P03	2	0.23	<i>Potamocorbula laevis</i>	0.13	56.5	<i>Lumbrineris heteropoda</i>	0.10	43.5	—	—	—
P04	1	0.03	<i>Paraprionospio pinnata</i>	0.03	100.0	—	—	—	—	—	—
P05	2	3.78	<i>Balanus reticulatus</i>	2.10	56	<i>Potamocorbula laevis</i>	1.68	44.4	—	—	—
P06	5	0.59	<i>Nassarius thersites</i>	0.18	30.5	<i>Nassarius siquijorensis</i>	0.15	25.4	<i>Acetes japonicus</i>	0.10	16.9
P07	2	0.08	<i>Heteromastus filiformis</i>	0.05	62.5	<i>Paraprionospio pinnata</i>	0.03	37.5	—	—	—
P08	6	680.78	<i>Potamocorbula laevis</i>	680.00	99.9	<i>Nassarius festivus</i>	0.80	<0.1	<i>Nassarius succinctus</i>	0.20	<0.1
P09	14	72.79	<i>Cavernularia obesa</i>	17.30	23.8	<i>Turritella bacillum</i>	16.60	22.8	<i>Protankyra bidentata</i>	11.90	16.3
P10	3	10.36	<i>Elasmodes acutus</i>	8.95	86.4	<i>Nassarius succinctus</i>	1.03	9.9	<i>Nassarius siquijorensis</i>	0.38	3.7
P11	8	238.94	<i>Potamocorbula laevis</i>	235.00	98.4	<i>Nassarius succinctus</i>	1.30	0.5	<i>Protankyra bidentata</i>	0.98	0.4
P12	8	175.72	<i>Potamocorbula laevis</i>	173.00	98.5	<i>Nassarius succinctus</i>	1.08	0.6	<i>Nassarius siquijorensis</i>	0.50	0.3
P14	1	86.30	<i>Potamocorbula laevis</i>	86.30	100.0	—	—	—	—	—	—
P15	5	741.48	<i>Potamocorbula laevis</i>	737.50	99.5	<i>Balanus reticulatus</i>	3.30	0.4	<i>Nassarius succinctus</i>	0.55	0.1
P16	18	59.90	<i>Bursa sp.</i>	47.13	78.7	<i>Nassarius succinctus</i>	2.38	4.0	<i>Gladolabes crassus</i>	1.73	2.9
P17	3	649.26	<i>Potamocorbula laevis</i>	645.00	99.3	<i>Balanus reticulatus</i>	3.08	0.5	<i>Nassarius succinctus</i>	1.18	0.2
P18	20	27.70	<i>Protankyra bidentata</i>	6.53	23.6	<i>Murex trapa</i>	3.95	14.3	<i>Nassarius hepaticus</i>	2.30	8.3
P19	15	37.87	<i>Protankyra bidentata</i>	11.18	29.5	<i>Paphia undulata</i>	10.53	27.8	<i>Potamocorbula laevis</i>	5.88	15.5
P20	15	13.33	<i>Neoxenophthalmus obscurus</i>	4.20	31.5	<i>Nassarius siquijorensis</i>	2.50	18.8	<i>Nassarius succinctus</i>	1.45	10.9
P21	16	29.00	<i>Potamocorbula laevis</i>	20.25	69.8	<i>Nucula tenuis</i>	3.03	10.4	<i>Paphia undulata</i>	1.80	6.2
P22	13	71.75	<i>Paphia undulata</i>	35.63	49.7	<i>Lophiotoma leucotropis</i>	19.43	27.1	<i>Charybdis vadorum</i>	11.25	15.7
P23	19	65.76	<i>Cuspidaria maritima</i>	26.65	40.5	<i>Paphia undulata</i>	21.93	33.3	<i>Modiolus flavidus</i>	2.58	3.9
P24	15	19.40	<i>Listriolobus brevistris</i>	8.83	45.5	<i>Macoma candida</i>	3.43	17.7	<i>Siliqua minima</i>	2.85	14.7
P25	19	48.16	<i>Clorida latreilii</i>	20.35	42.3	<i>Hexapus granuliferus</i>	10.00	20.8	<i>Nassarius siquijorensis</i>	6.50	13.5
P27	5	39.86	<i>Turritella bacillum</i>	36.63	91.9	<i>Minolia chinensis</i>	1.70	4.3	<i>Nassarius succinctus</i>	1.40	3.5

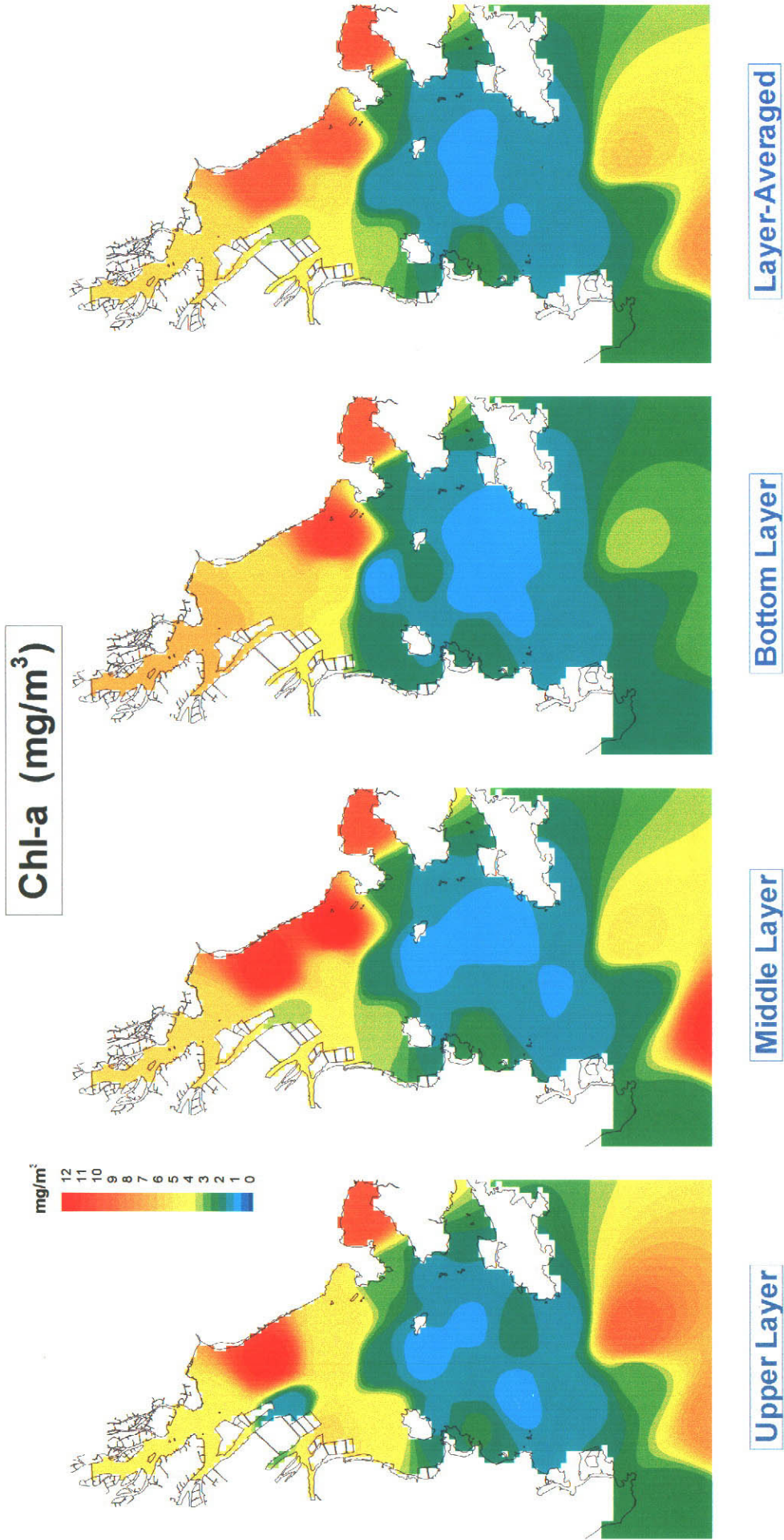


Figure 3.4.1 Result of the Survey on Chlorophyll-a (Rainy Season)

Spring Tide : July 31 - August 3, 2000

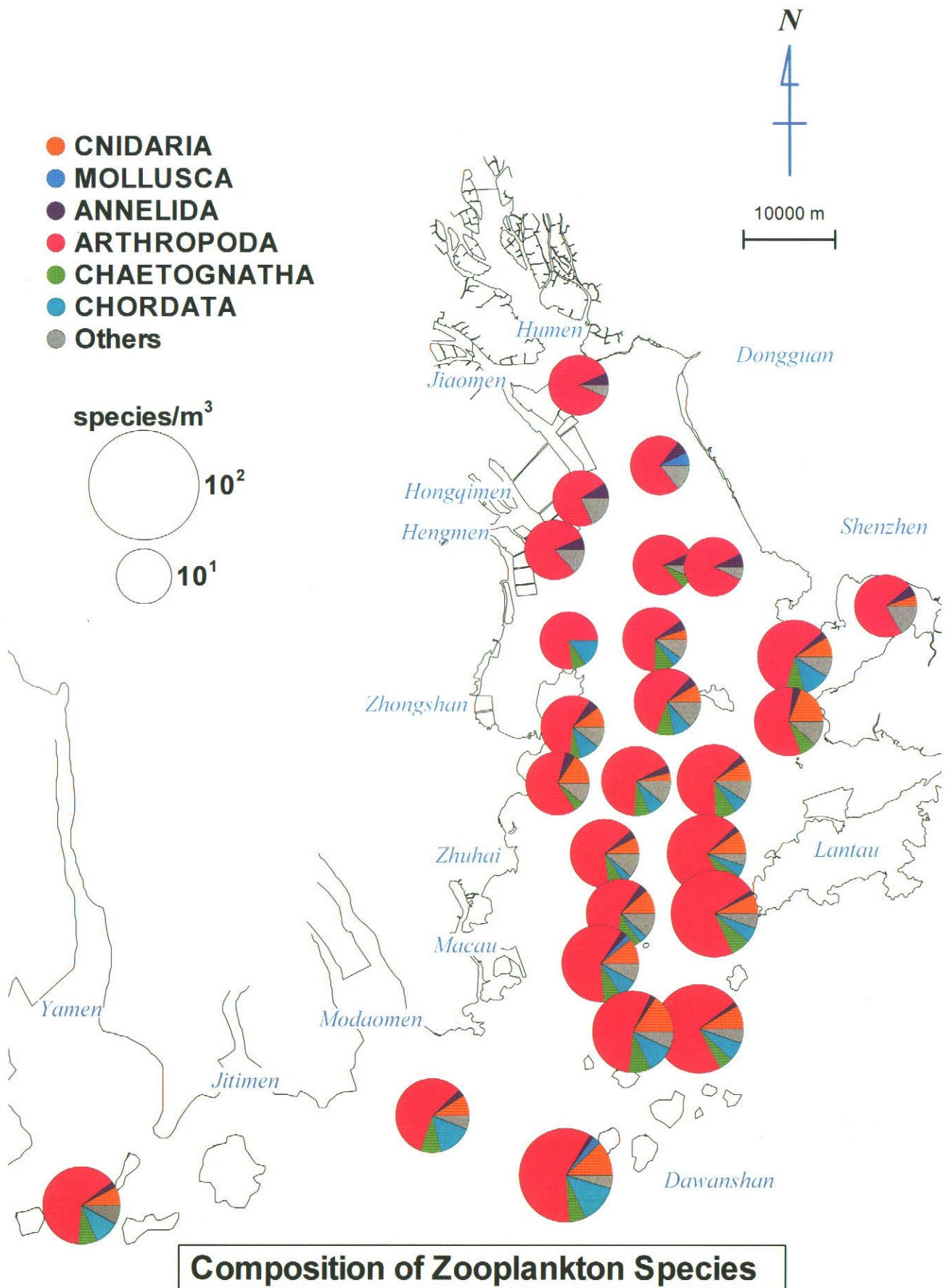
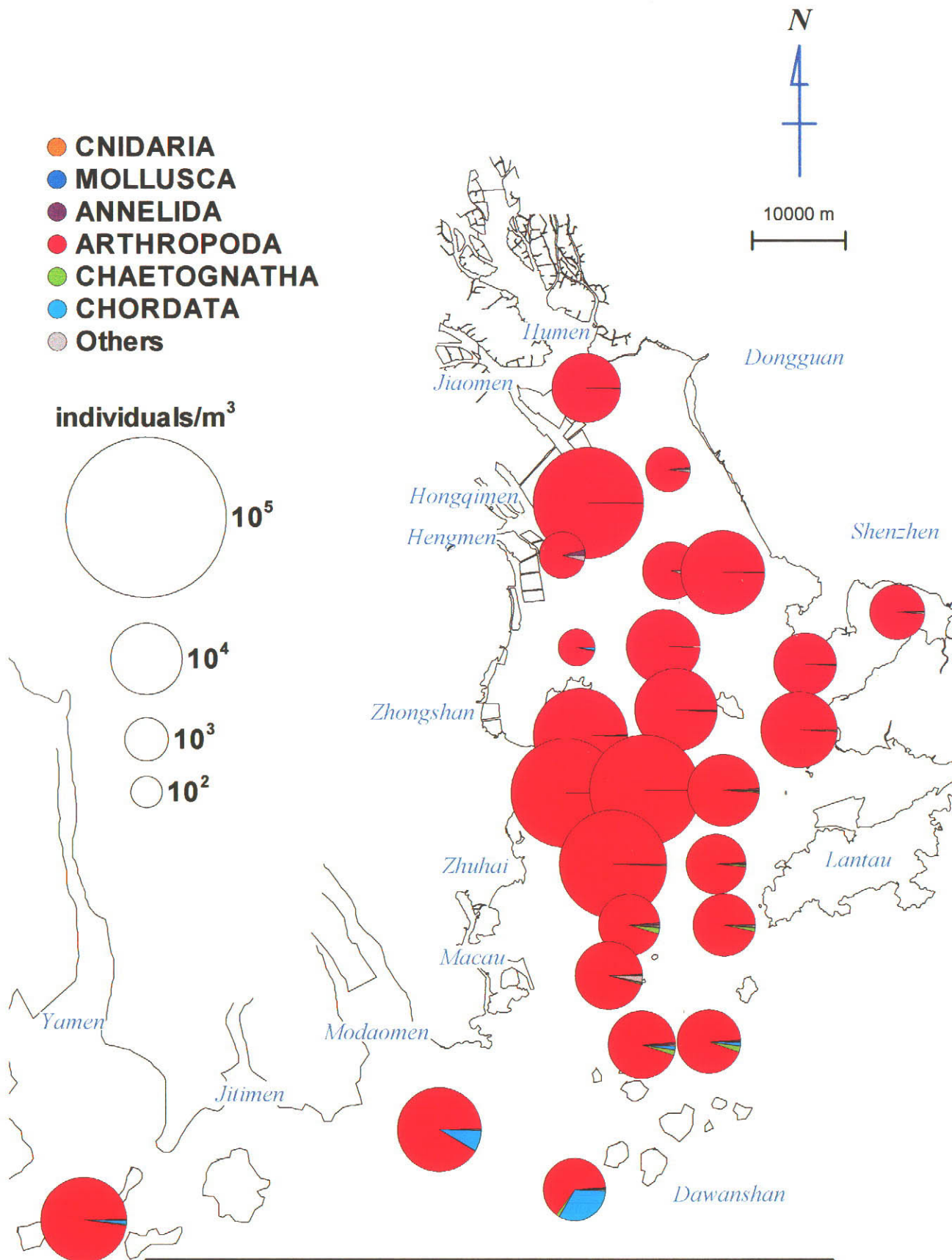


Figure 3.4.2(1) Result of the Survey on Zooplankton (Rainy Season)

July 31 - August 10, 2000



Zooplankton Biomass by Individual Counts

Figure 3.4.2(2) Result of the Survey on Zooplankton (Rainy Season)

July 31 - August 10, 2000

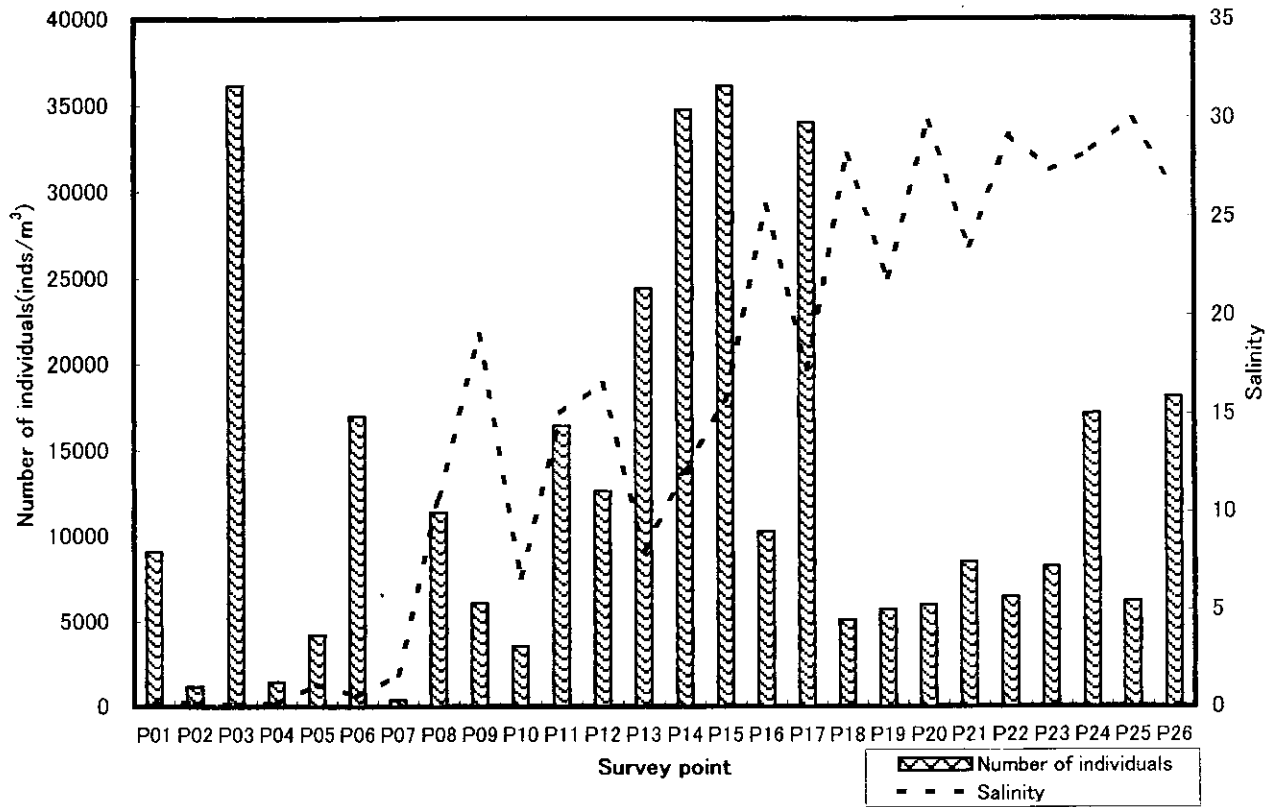


Figure 3.4.3 Number of Individuals of Zooplankton and Salinity (Rainy Season)

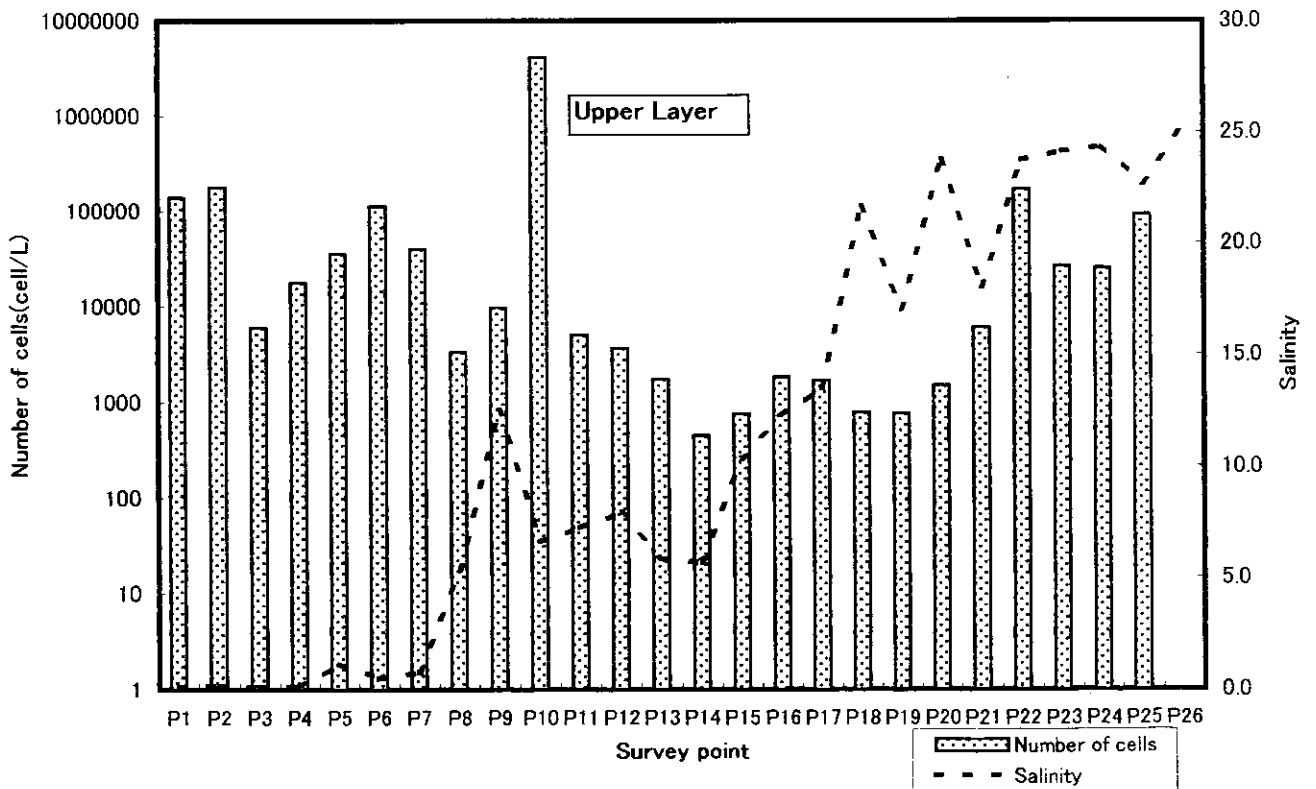


Figure 3.4.4 Cell Number of Phytoplankton and Salinity (Rainy Season)

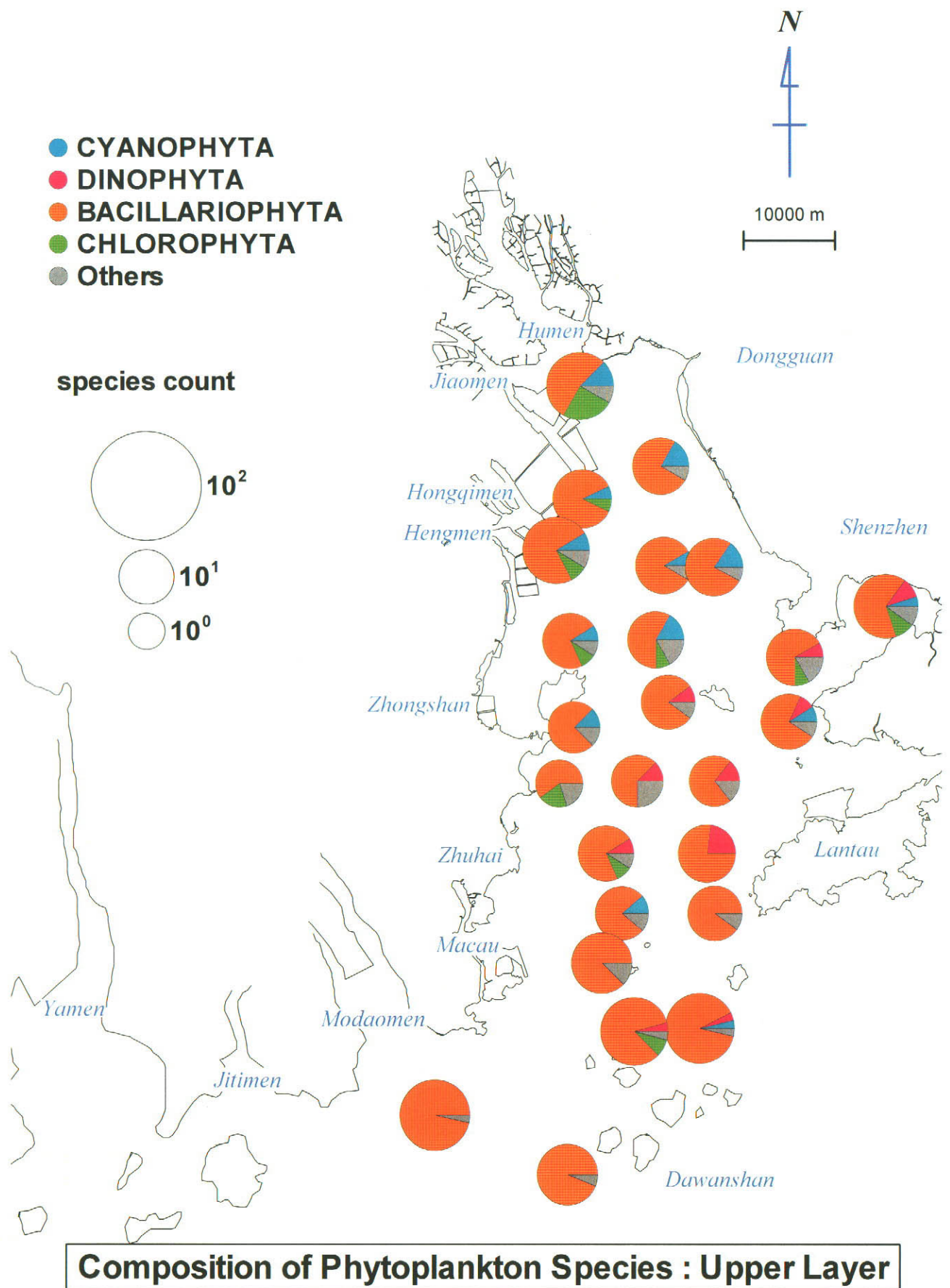
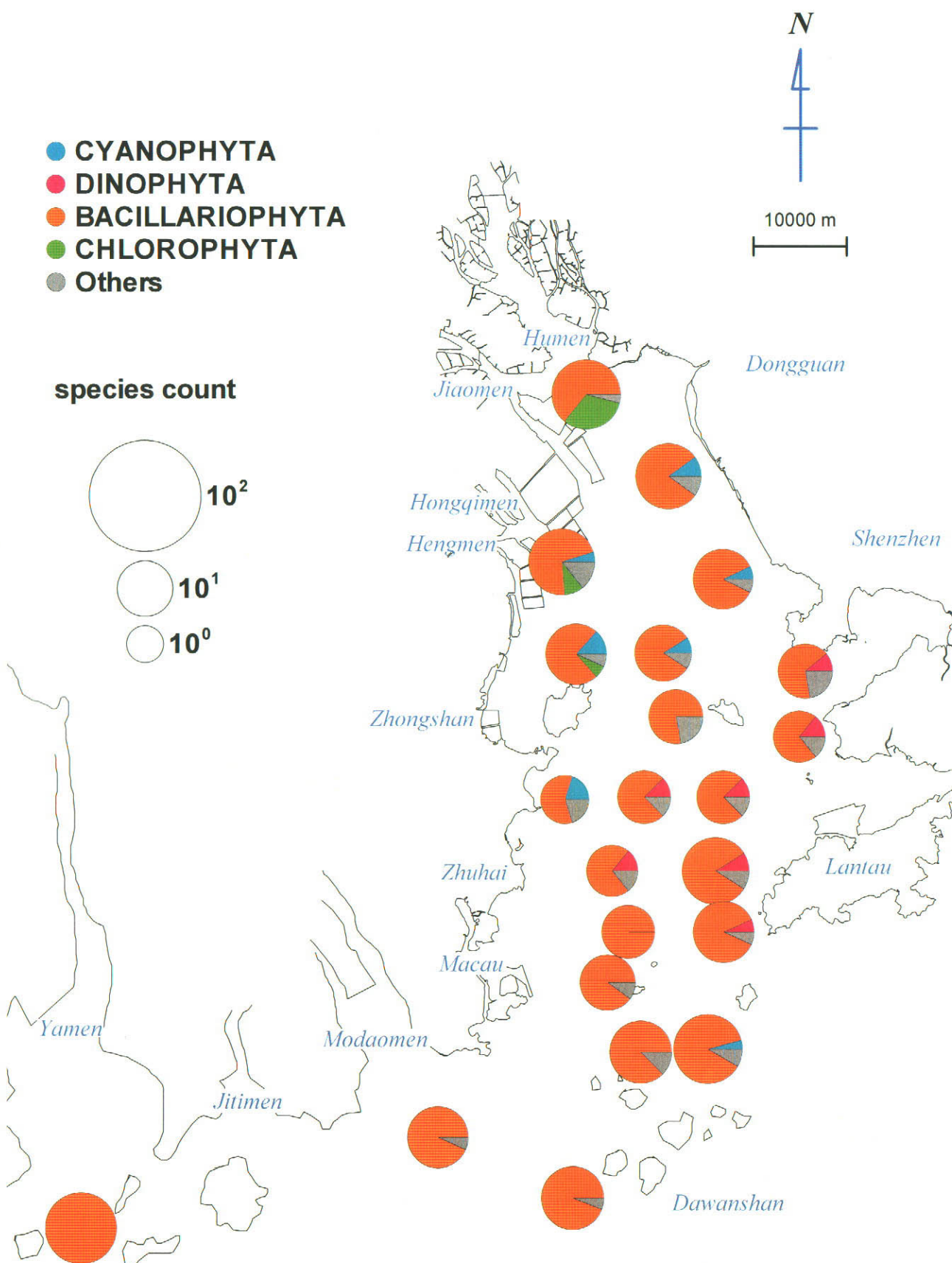


Figure 3.4.5(1) Result of the Survey on Phytoplankton (Rainy Season)

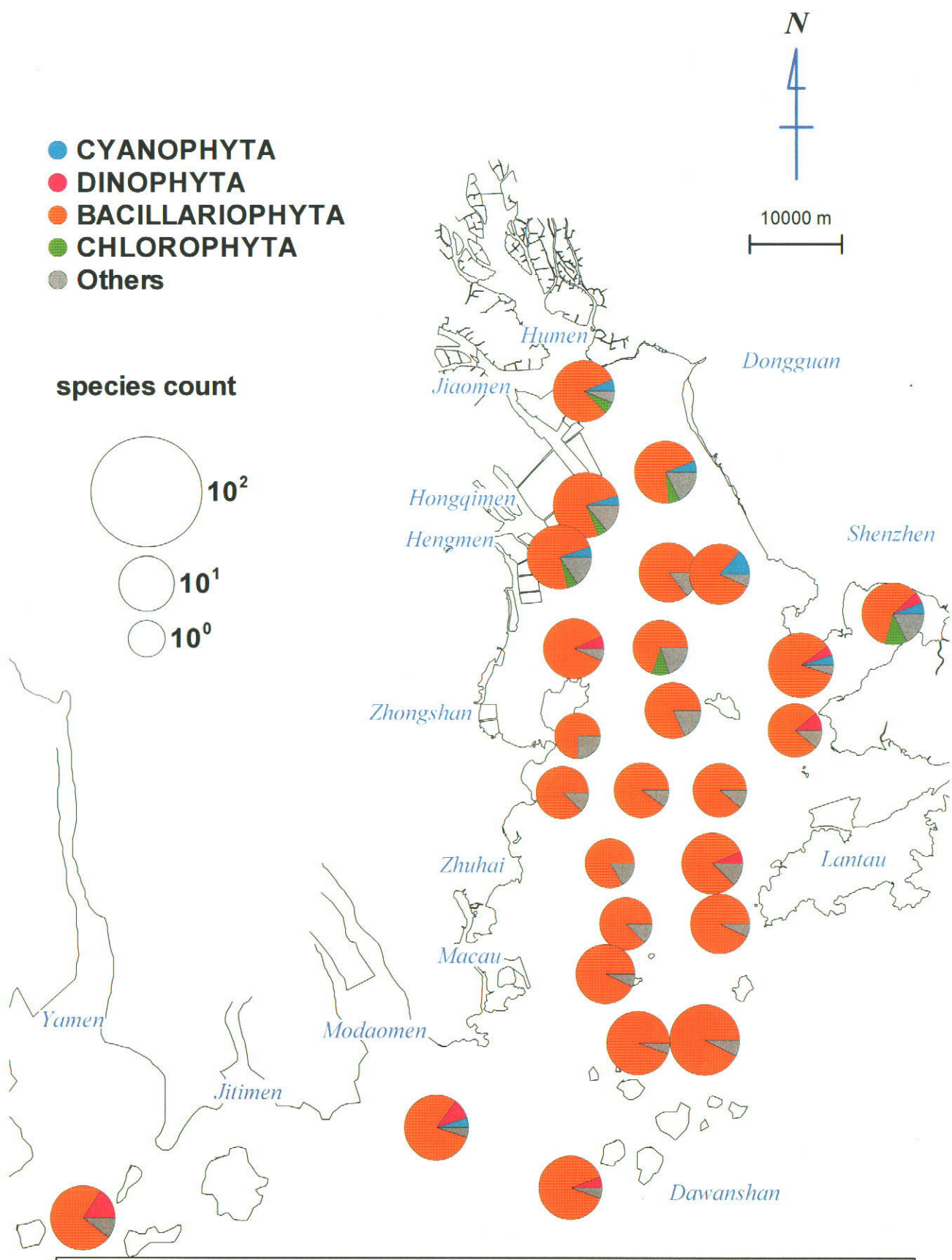
July 31 - August 10, 2000



Composition of Phytoplankton Species : Middle Layer

Figure 3.4.5(2) Result of the Survey on Phytoplankton (Rainy Season)

July 31 - August 10, 2000



Composition of Phytoplankton Species : Bottom Layer

Figure 3.4.5(3) Result of the Survey on Phytoplankton (Rainy Season)

July 31 - August 10, 2000