### Intermediate Season

## FIELD SURVEY REPORT ON TRANSITIONAL SEASON FOR THE STUDY ON THE IMPROVEMENT OF MARINE ENVIRONMENTAL MONITORING SYSTEM FOR THE PEARL RIVER ESTUARY

SOUTH CHINA SEA ENVIRONMENTAL MONITORING CENTRE
OF
STATE OCEANIC ADMINISTRATION
MAR 2001

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#### Introduction

The field survey in transitional season of the Study on Improvement of Marine Environmental Monitoring System for the Pearl River Estuary is a supplement to the rainy season as well as dry season survey and to provide the hydrology, water quality, sediment quality and aquatic biota data for developing a water quality and an ecological simulation model. The participators counted 39, among which 1 professor, 6 senior engineers, 20 engineers, 9 assistant engineers and 3 others. Thanks to the experience of rainy season and dry season survey, the transitional season survey was accomplished smoothly under the endeavor of both sides of China and Japan. The following is the returns of field survey operation.

#### 1 Survey Points

In the study area, there were 25-point locations for hydrology, water quality, and aquatic biota survey, all of them were intensive points and 1 point was set up for ADCP observation in addition.

#### 2 Information of Vessels Employed

During the survey, 2 vessels were employed. They were Haijian 73 and a civil boat. Haijian 73 was in charge of the points survey in deeper water and the civil boat was responsible for points survey in shallower water.

#### 3 Operation Time

The survey was conducted from 4 Mar to 7 Mar 2001 fully in accordance with original schedule.

#### 4 Field Survey

#### 4.1 Water Quality Sampling in Site

The collected water samples counted 1661 at 25 point locations in transitional season survey. The samples were collected in accordance with sampling regulations and in order. There were no samples contaminated during water collected. The samples' pre-treatment and storage were based on the specification of marine survey. There was no sample missing and breaking.

#### **4.2 CTD**

CTD was tested on-board Haijian 73. Before and after the survey, the water temperature, salinity and turbidity were tested respectively. Water temperature micro-

sensor was tested with reversing thermometer, conductivity and turbidity were tested with salinometer and turbidity meter. The above results showed tow methods results of testing were basically the same.

#### 4.3 ADCP Observation

The observation point was set up near P16. At 1630 on 4 Mar, ADCP was deployed completely and began working. Having worked 48 hours in succession, ADCP fulfilled the observation at 1710 on 6 Mar and was retrieved. The ADCP recorder worked well during observation.

#### 4.4 Meteorological Observation

The meteorological observation was conducted at 25 points and 125 parameters were obtained.

#### 4.5 Phytoplankton, Zooplankton and Benthos

Phytoplankton, zooplankton and benthos survey were carried out at 25 points, and 122 samples were collected. The sampling was carried out in accordance with the specification of marine survey

#### 4.6 Light Quantum

During light quantum observation, the scientific worker avoided the sheltered umbra on-board civil boat to observe light quantum.

#### 5 Samples Delivering, Analyzing and Data Processing

During the survey, the civil boat delivering sample could carry the samples collected to Haijian 73 on time for analysis. After the field survey, all samples were transported safely to the laboratory. Each lot of samples with delivering note was checked and signed on the note during delivering. There were no samples confused, damaged and missed when lots of samples delivered.

Before or after each lot or group of 30 samples analyzed, an additional test sample would be analyzed. At the same time, over-all recovery would be analyzed to attest the analysis procedure and quality control in laboratory jobs in order to ensure the data reliable.

The procedure of data processing strictly observed ISO9000, and data processing such as calculation, check, examining, data format, Excel table and document compiling met the requirement of quality control.

#### **6 Statistics Results**

During the transitional season survey, 1261 analysis data of water quality were obtained, 244 parameters of aquatic biota, 15983 variables/parameters of light quantum and hydrometeorology. The enclosed table presents the statistics results.

#### 7 Conclusions

In a common effort of both sides of China and Japan, the transitional season survey was succeeded. The survey commanding and scheduling were well-knitted and functioning smoothly thanks to thoughtful preparation as well as the experience of rainy season and dry season survey.

Statistic Data Results on the Transitional Season Survey 8 Table

S <sub>o</sub>	Water quality items	Data	Š	Sediment quality items	Data	S <sub>S</sub>	Aquatic biota items	Data	ž	Hydrometeorological items	Data numbers
-	OQ	72	21	Hg	26	27	Chl-a	72	32	Water temperature	469
7	Hd	72	22	PO	26	28	Coli.	50	33	Salinity	469
3	BOD <sub>5</sub>	72	23	Pb	56	29	Zooplankton	72	34	Water depth (sounding)	469
4	CODMn	72	24	ņ	26	30	Phytoplankton	25	35	Turdity	469
S	TOC	72	25	Zn	26	31	Benthos	25	36	Water color (China)	25
9	NO3-N	72	56	As	26				37	Water color (Japan)	25
7	NO <sub>2</sub> -N	72							38	Transparency	25
<b>∞</b>	NH3-N	72			•				39	Weather	25
6	PO <sub>4</sub> -P	72							40	Water depth (lead weight)	25
10	SiO <sub>2</sub> -Si	72							41	Air temperature	25
11	T-N-T	72							42	Air pressure	25
12	T-P	72							43	Wind speed	25
13	Oils	25							4	Wind direction	25
14	SS	72	<u>-</u>						45	Light quantum	544
15	Hg	20							46	ADCP Current speed	6999
16	PO	20							47	ADCP Current direction	6999
17	Pb	20									_
18	Cu	50									
19	Zn	20									
20	As	50									
	total	1261			156			244			15983

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HYDROLOGICAL DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

Total page 1

	ļ	Ĺ				$\mid$															
1	Point		Sampling time	اھ <u>.</u>	<u>.</u>	$\dashv$			Position	_		Water	Transparency		Japan water		Air	Air	Wind	Wind	
	ON	<b>×</b>	Σ	a	H	Min	ı,	Latitude		Longitude	tude	depth (m)	(m)	color (No)	color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Remark
-	P01	2001	8	됩	12	9	22 ° 43	3 ' 51	113	, 40	, 90	24.0	1.0	16	5GY5/8	Fog	21.0	1021.5	1.3	20	
2	P02	2001	03	9	0	25	22 ° 38	8 , 30	113	6 4	32 ″	8.0	6.0	19	5GY6/4	Fog	19.6	1017.6	9.0	100	
3	P03	2001	3	05	90	30	22 ° 36	6′ 42	113	39	, 28 ″	4.8	9.0	20	0.5Y7/5	Fog	18.9	1020.9	3.9	90	
4	P04	2001	03	0.5	13 1	19	22 ° 33	3′30	1113	9 37	, 47	9.4	0.7	20	0.5Y7/5	Fog	19.9	1018.0	2.3	180	
~	P05	2001	03	9	60	20	22 ° 32	2 42	, 113	6 4	, 52 "	5.0	0.8	19	5.5Y4/4	Fog	19.8	1018.3	1.3	09	
9	P06	2001	03	ष्ठ	8	58 2	22 ° 32	2, 31	″ 113	9 47	, 88	8.9	0.0	16	5GY6/4	Fog	19.9	1018.2	2.1	120	
7	P07	2001	3	0	27	05 2	22 ° 28	8 07	″ 113	38,	42 ″	6.9	0.8	20	0.5Y7/5	Fog	19.4	1019.2	1.6	150	
œ	P08	2001	03	90	10	30	22 º 28	8 16	, 113	° 44	, 13 "	6.5	1.0	20	2.5Y4/4	Fog	21.2	1018.6	8.0	09	
6	P09	2001	03	8	9	31 2	22 º 27	7 00	, 113	° 53	, 00	15.8	1.1	15	5G5/4	Fog	20.5	1018.8	1.5	270	
2	P10	2001	8	8	12 0	8	22 ° 30	0 11	113	9 58	, 28	2.4	9.0	21	5.5Y6/2	Fog	23.6	1017.7	2.8	110	
Ξ	P11	2001	03	8		15 2	22 ° 24	4 ′ 28	, 113	4	, 89 "	7.0	1.3	17	5GY6/4	Fog	21.2	1018.2	0.0	Э	
12	P12	2001	33	90	07	40 2	22 ° 24	4′32	″ 113	° 52	34 ″	9.5	1.0	18	5GY6/4	Fog	19.3	1016.8	1.8	0/	
13	P14	2001	03	3	17	11 2	22 º 19	9 47	, 113	937	, 58 *	5.0	6.0	19	5GY6/4	Fog	23.1	1015.6	1.8	210	
14	P15	2001	8	05	17 0	8	22 ° 19	9, 51	, 113	9 42	, 29 "	7.2	1.5	17	SGY6/4	Fog	20.1	1015.1	6.0	08	
15	P16	2001	03	8	13	35 2	22 ° 19	9, 49	″ 113	47	, 89 ″	13.0	1.5	13	10GY4.5/7	Fog	21.0	1015.7	1.0	09	-
16	P17	2001	03	03	16 1	10	22 ° 15	5 ′ 29	113	40	, 89 ″	7.2	1.6	17	5GY6/4	Fog	19.1	1015.3	3.3	20	
17	P18	2001	03	98	12 4	45 2	22 ° 15	, 25	, 113	٥ 47	31 ″	13.0	2.0	13	10GY4.5/7	Fog	21.5	1016.6	1.0	09	
18	P19	2001	03	5	15 2	20 2	22 ° 11	1 , 36	113	9 42	, 05	5.6	1.9	15	5GY6/4	Fog	19.2	1015.5	8.5	10	
19	P20	2001	03	ड	07	50	22 ° 11	, 56	113	0 47	. 29	18.0	3.0	13	10GY4.5/7	Fog	17.0	1019.8	3.0	10	
20	P21	2001	03	05	14	40	22 ° 08	, 57	113	ه 4	, 40 ,	7.0	1.9	15	5GY5/8	Fog	19.4	1016.3	8.3	10	
21	P22	2001	03	05	98	55 2	22 ° 05	, 06	113	, 47	, 01	12.0	4.0	13	10GY4.5/7	Fog	17.0	1020.3	4.8	50	
22	P23	2001	03	02	99	55 2	22 ° 04	58	113	, 9 42	45 "	11.0	3.5	13	10GY4.5/7	Fog	19.0	1020.7	3.5	09	
23	P24	2001	03	05	12 3	30 2	22 ° 00	9	, 113	30	°, 00	4.9	1.8	15	5GY6/4	Fog	19.2	1019.7	7.0	09	-
24	P25	2001	03	8	11 1	15 2	21 ° 56	, 25	″ 113	, 38	78 %	20.0	2.8	13	10GY4.5/7	Fog	19.0	1019.9	8.0	20	
25	P27	2001	03	05	13 4	45 2	22 ° 04	, 58	7 113	37	41 ,	7.0	2.5	14	5GY6/4	Fog	19.3	1017.4	8.9	09	
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LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

Unit: umol/m2/s 0.09606 10m 1070 1581 0.1039 1412 1580 1074 9ш 0 0.007852 0.2254 1572 1426 1038 8т 0.007582 0.05791 0.4656 84.00 1570 1434 1023 7,3 0.06919 0.1317 0,03791 0.06160 0.9322 83.20 269.9 1.014 890.2 1572 1432 1429 1066 щg 0.3673 0.1568 0.4189 0.2635 0.3962 82.38 273.3 850.2 2.429 802.2 1418 3.723 1564 1437 1067 5m 0.7167 0.07582 0.3049 5.614 81.67 958.5 1440 0.7061 803.5 266.9 3.169 1.134 863.4 10.23 1048 1408 1581 4m 0.1393 272.6 15.26 80.86 1.507 935.7 4.266 806.2 3.938 4.102 12.08 863.4 1565 1447 1005 28.41 1401 3тп 15.58 80.02 993.3 1.476 804.1 39.18 269.6 927.5 18.64 29.44 17.99 69.54 1566 4.631 1449 1400 1006 2m916.9 820.6 103.4 124.4 987.2 190.0 79.84 13.72 16.62 126.2 270.1 1603 1454 65.41 1103 23.81 1396 1 m274.5 154.6 0.5m 79.40 28.70 918.2 814.3 108.8 475.3 288.0 26.04 1458 237.4 272.4 1529 1089 1054 1391 78.62 38.89 912.6 29.02 952.3 1476 800.4 6.799 270.2 170.0 1439 1178 738.7 1065 1025 1041 1397 **E**0 Depth water water water water water water deck deck water deck water deck deck deck deck deck deck Position Min 20 9 10 <del>\$</del> 80 58 45 55 30 SAMPLING TIME 13 2 10 10 Η 07 8 8 8 Ξ 9 9 90 90 05 90 8 05 8 Ω 03 03 03 03 6 03 03 03 03 Σ 2001 2001 2001 2001 2001 2001 2001 2001 2001 > P09 Point No P02 P03 P04 P05 P06 P01 P07 P08 Total Page 6 ŝ 17 Ξ 12 13 15 16 10 14 m 4 S 9 œ 6

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LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

(Intensive point in neap tide)

Unit: umol/m2/s

0.3048 0.07677 1.762 1510 1382 10m 0.03137 0.8842 0.2559 252.0 3.894 1504 1347 9ш 0.6910 7.600 249.0 1374 1.689 1513 0.041 8m 1528.0 0.02354 16.68 1.243 244.0 4.998 1382 73 0.01656 27.50 241.0 256.9 11.23 2.144 1370 2.065 2.307 1379 1531 em 9 0.01662 55.00 240.0 278.8 450.8 1.013 8.179 2.420 3.827 1366 22.31 1531 1371 Sm 0.02353 0.8530 91.98 21.03 869.9 239.6 303.0 258.3 6.593 1355 42.74 452.1 2.243 1528 1356 4m 0.1834 14.13 238.8 310.2 11.60 85.80 439.5 6.078 185.1 54.45 1.717 260.1 1388 1521 1331 3т 16.76 19.63 181.4 430.5 18.49 318.2 139.3 615.6 4.814 279.7 1386 3.372 1315 47.31 239.1 303.41526 2m280.8 440.9 488.8 314.4 30.95 32.99 36.06 306.4 729.6 239.2 31.54 1353 363.1 1533 31.11 1275 113.4 II 412.5 510.7 286.2 51.58 466.4 69.94 454.5 9.989 297.8 61.64 299.4 60.22 0.5m106.7 1362 1534 1246 240.1 226.6 70.42 449.4 115.4 240.3 306.0 133.7 277.4 1142 725.4 615.2 322.4 523.4 1127 1276 1365 1531 <mark>ш</mark>0 Depth water water water water water water deck water deck deck deck water deck deck water deck deck Position Min 16 7 07 10 50 98 8 3 SAMPLING TIME 12 07 17 13 16 13 17 H Ξ 90 90 05 05 90 05 90 90 Ω 8 03 03 8 03 8 03 03 Σ Printer:Chen Jian Chang 2001 2001 2001 2001 2001 2001 2001 2001 Point No P18 P10 P12 P14 P15 P16 P17 P11 Total Page 6 ž 27 28 53 30 31 32 33 8 19 21 23 7 22 26 22 18 20

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LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

Unit: umol/m2/s .

Total	Total Page 6															-		7	
ž	Point	<u> </u>	SAMPLING TIME	Ĭ	G TII	ME	Depth	0m	0.5m	mI	2m	3т	4m	Sm	щ9	7m	8m	9m	10m
_	2	7	Σ	Δ	Ħ	Min	Position												
35	P19	2001	1 03	05	14	50	deck	822.1	819.0	812.8	813.6	812.8	818.6	812.7	815.4	815.4			
36							water	119.6	09.06	54.51	35.49	22.29	11.71	5.081	1.407	0.4097			
37	P20	2001	1 03	05	07	40	deck	89.70	92.30	94.55	92.30	88.63	89.83	88.72	09:06	106.9	109.2	110.4	110.2
38					_		water	49.16	29.30	23.82	23.20	18.43	13.60	9.042	6.036	4.539	2.563	1.849	1.036
39	P21	2001	1 03	05	14	42	deck	1021	1032	1055	1059	1061	1059	1078	1072	1075			
6			ļ. —				water	137.9	96.48	46.85	46.33	31.25	22.03	16.48	4.841	1.615			
41	P22	2001	1 03	05	60	02	deck	452.0	449.0	445.3	445.2	445.2	432.2	441.2	426.4	439.4	459.6	457.8	495.4
42				_	-	_	water	153.1	123.2	104.0	69.84	54.87	33.98	22.08	21.98	16.59	13.61	12.20	9.822
43	P23	2001	1 03	05	10	80	deck	467.2	457.2	516.6	445.3	505.3	536.8	514.8	488.8	472.7	474.9	471.8	491.5
44		_					water	195.3	116.5	80.51	41.04	30.90	20.56	15.71	11.22	7.773	90.9	3.753	1.849
45	P24	2001	1 03	05	12	45	deck	1461	1456	1463	1445	1433	1442	1456					
46		_					water	262.6	149.0	90.05	51.36	26.64	7.824	1.053					
47	P25	2001	1 03	0.5	11	30	deck	1363	1415	1400	1381	1372	1395	1385	1413	1399	1397	1380	1386
48							water	242.0	156.6	109.4	86.82	58.12	47.22	35.92	28.07	25.24	24.03	21.26	19.16
49	P27	2001	1 03	0.5	14	03	deck	1241	1247	1246	1218	1219	1256	1261	1268	1253			
50							water	245.8	206.6	102.9	72.04	54.30	38.35	36.95	7.903	2.259			

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LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

(Intensive point in neap tide)

Unit: umol/m2/s

Remark 0.02353 B-1m 1529 0.03137 20m 1531 0.09606 19m 1541 0.05587 1536 18m 0.06371 1552 17m 0.06371 1556 16m 0.04803 1563 15m 0.08037 1586 1087 14m 0.02353 1554 1087 13m 0.04803 1074 1582 12m 0.05587 1066 11m 1581 Depth water water water water water water water water deck deck deck deck deck deck deck deck deck Min Position 10 55 58 45 39 20 05 <del>\$</del> 80 SAMPLING TIME 10 10 60 0.7 15 8 80  $\Pi$ I 33 05 90 90 90 90 8 05 90 05 2001 | 03 03 03 03 03 03 03 6 03 Σ Printer:Chen Jian Chang 2001 2001 2001 2001 2001 2001 2001 2001 P09 Point No P06 P08 P02 P03 P04 P05 P07 P01 Total Page 6 ŝ 15 Ξ 12 13 91 12 14 3 9 0 œ (1

LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

					ř													
Foint So S	SA	SAMPLING TIME	NG	TIM	<u> </u>	Deptin	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m	B-1m	
	Y	Σ	Ω	H	Min	Position												- 1
						water	0.02275	0.007825	0	0								
P10	2001	03	90	12	00	deck												L
				-		water	•							ï				
P11	2001	03	90	11	29	deck											_	
						water												
P12	2001	03	90	07	56	deck												
						water									•			
P14	2001	03	05	17	10	deck												
						water												
P15	2001	03	05	17	16	deck												
						water												
P16	2001	03	90	13	50	deck	1389	1394	1384									- 1
						water	0.1039	0.04806	0.03145									
P17	2001	03	05	16	14	deck												
_						water												- 1
P18	2001	03 (	90	13	0.5	deck	1513	1513	1531									
					<u> </u>	water	0.8767	0.5381	0.2088									

LIGHT QUANTUM DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY

(Intensive point in neap tide)

Unit: umol/m2/s

Remark B-1m 1.206 20m 1424 2.195 19m 1427 0.01568 104.3 3.408 18m 1390 0.03912 115.8 4.958 1363 17m 115.5 0.07151 16m 7.405 1435 0.1171 115.4 9.457 15m 1449 0.1598 115.2 11.14 1418 14m 0.2568 114.5 13.86 13m 1382 0.4656 536.8 15.05 113.1 2.932 12m 1401 9999.0 523.8 5.272 112.1 1413 16.51 11m Depth water water water water water water water water deck deck deck deck deck deck deck deck Position Min 40 05 80 45 20 42 30 3 SAMPLING TIME 14 14 07 8 10 12 Ξ 4 H 05 05 05 05 05 05 05 05 Q 03 03 03 03 03 03 8 63 Σ 2001 2001 2001 2001 2001 2001 2001 2001 Point P20 ŝ P19 P21 P22 P24 P25 P27 P23 Total Page 6 ŝ 47 44 45 46 48 49 35 37 39 41 42 43 50 <del>\$</del> 36 38

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WATER QUALITY DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY (Intensive point in neap tide)

Total page: 6

	Point		Sampling time			2.5	<u> </u>		DO (mg/dm³)	COD <sub>M</sub> (mg/dm <sup>3</sup> )	BOD <sub>5</sub> (mg/dm <sup>3</sup> )	Hd	TOC. (mg/dm <sup>3</sup> )	TN (ug/dm³)	TP (ug/dm³)	PO <sub>4</sub> -P (ug/dm <sup>3</sup> )	SiO <sub>2</sub> -Si (ug/dm³)	NO <sub>z</sub> -N (ug/dm <sup>3</sup> )	NO <sub>3</sub> -N (ug/dm <sup>3</sup> )	NH3-N (ug/dm³)	Hg (ug/dm³)
 Š	Š.				<u> </u>	aepta (m)	(°C)	Salinity					Detect	Detection limit		,					
		YM	4 D H	Min	_	· · · · · · · · · · · · · · · · · · ·			0.12	0.10	0.20	0.10	0,18	<b>41</b> .	1.6	1.0	14	0.5	6.0	5.0	0.0064
-	FO.	2001 03	3 04 12	99	S	1.0	18,42	5.875	5.95	1.92	2.14	7.44	4.64	1114	60.4	32.4	3369	204.9	525.5	48.6	0.0114
<b>C1</b>					Σ	12.0	18.30	17,659	6.16	1.02	2.41	7.79	3.20	827	38.0	34.5	1735	123.4	487.5	105.8	
٠٠,					В	23.0	18.16	777.02	82.9	0.90	2.46	7.90	3.63	789	34.1	30.5	1448	97.8	540.9	82.7	0.0142
++	P02	2001 0	2001 03 06 07	20	S	1.0	18.68	14.187	6.35	1.72	0.75	7.75	3.96	1001	90.6	32.9	2012	140.9	584.5	130.7	0.0090
5					Σ	4.1	18,64	18.631	6.25	1.66	0.74	7.74	4.09	974	89.1	34.8	2402	135.4	559.2	85.9	
ç					В	7.2	18.76	20.953	6.62	1.10	09.0	7.82	3.69	793	116.2	38.3	1338	109.7	535.3	103.9	0.0032*
7	PU3	2001 0	2001 03 05 09	0.5	s	1.0	17.72	1.380	8.15	2.40	1.98	8.02	5.23	1684	23.2	9.7	2487	53.8	642.1	108.6	0.0079
æ					В	3.5	17.69	5.033	7.84	3.00	3.04	7.99	6.42	1582	59.6	21.0	2730	66.2	706.7	8.89	0.0142
6	P04	2001 0	03 05 13	10	S	1.0	18.88	0.277	7.67	1.48	96:0	8.05	3.56	914	43.4	29.7	2407	139.2	532.5	20.8	0.0032*
2					Σ	8.4	17.82	4.225	7.84	1.58	0.85	8.02	3.29	1020	49.6	21.8	2699	9.66	498.8	64.7	
					В	8.5	18.08	13.126	19.7	1.68	08.0	7.89	2.98	1027	53.4	42.1	2504	87.5	519.8	96.3	0.0068
21	P0.5	2001 0	03 06 09	23	s	1.0	18.72	16.788	7.51	1.10	1.27	7.91	3.09	963	32.5	32.4	1701	118.0	542.3	133.2	0.0108
Ξ.					M	2.8	18.63	18.712	7.47	0.85	1.69	7.90	3,69	925	54.2	28.9	1408	108.7	552.2	133.2	
					В	4.5	18.58	20.465	7.46	1.03	1.37	7.95	3.20	918	45.7	24.0	1576	103.0	501.6	133.2	0.0160
15	P06	2001 0	2001 03 06 08	55	S	1.0	19.13	20.826	7.81	1.80	2.67	8.01	4.30	944	55.0	38.0	1408	107.1	529.7	64.4	0.0032*
16					M	3.5	19.14	23.569	7.43	1.59	1.57	8.00	4.23	891	40.3	29.9	1228	104.8	524.1	88.7	
17			_		В	6.0	19.20	24.367	7.41	1.18	0.70	8.03	3.92	785	72.8	29.9	1020	91.9	413.1	93.8	0.0144
18	P07	2001 0	03 05 11	58	S	1.0	18.11	8.827	8.23	1.90	0.98	7.90	4.47	710	47.3	23.5	2275	137.0	483,3	46.4	0.0087
19					M	3.5	18.09	16.115	8.07	1.92	0.98	7.91	3.80	876	82.1	36.7	2425	82.1	9.179	54.9	
20					В	6.0	18.20	19,463	8.26	2.99	1.02	7.90	5.47	929	58.9	25.1	2270	58.7	726.4	84.9	0.0150
21	P08	2001 0	03 06 10	35	S	1.0	18.81	19.790	6.84	1.14	0.10	8.05	3,22	1273	24.8	16.2	1299	101.2	515.6	110.2	0.0100
22					M	3.3	18.78	22.817	89.9	1.14	0.10*	8.08	3.69	925	48.0	18.9	1495	7:66	507.2	124.4	
23					В	5.5	18.94	27.094	6.67	0.65	0.39	8.18	3.03	948	24.8	17.3	637	53.3	234.6	84.0	0.0105
24	P09	2001 0	03 06 10	26	S	1.0	19.31	29.267	7.17	0.80	2.04	8.10	3.44	514	66.6	32.1	536	60.3	248.7	117.5	0.0069
25					Σ	7.8	18.99	30.241	7.06	0.73	1.20	8.12	2.84	438	38.7	32.1	760	52.6	178.4	106.4	_
26					В	14.5	18.88	30.719	6.90	0.76	0.38	8.14	3.19	419	38.7	25.1	394	46.4	8.89	85.3	0.0032*

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# WATER QUALITY DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY (Intensive point in neap tide)

Total page: 6

	_																											
Hg (ug/dm³)		0.0064	0.0101	0,0032*	0.0076		0.0032*	0.0092		0.0157	0.0114		0.0076	0.0095		0.0032*	0.0075		0.0152	0.0109		0.0140	0.0096		0.0068	0.0164		0.0082
NH <sub>3</sub> -N (ng/dm <sup>3</sup> )		5.0	101.4	92.2	112.4	130.7	72.6	114.3	111.1	80.2	38.5	23.4	86.5	91.3	88.7	80.2	30.9	44.5	37.3	72.6	81.1	77.4	63.8	56.2	16.4	48.6	57.8	59.0
NO <sub>3</sub> -N (ug/dm³)		. 0.9	290.8	285.2	453.8	389.2	172.8	191.1	153.1	150.3	498.8	425.7	567.6	532.5	449.6	300.7	179.8	160.2	81.5	373.7	335.8	314.7	272.6	147.5	59.0	303.5	186.9	134.9
NO <sub>2</sub> -N (ng/dm <sup>2</sup> )		0.5	199.6	200.8	83.9	81.0	42.0	54.7	53.0	40.2	153.2	139.3	75.0	87.0	73.2	50.7	47.6	38.6	22.2	64.7	61.6	43.0	49.5	33.2	16.8	50.0	27.4	23.3
SiO <sub>2</sub> -Si		41	1176	1186	1402	923	583	712	629	601	1407	1822	1518	1443	1273	954	783	442	312	766	1116	730	620	736	277	852	500	371
PO <sub>4</sub> -P (ug/dm³)		1.0	314.2	304.7	16.7	17.3	24.3	26.7	27.5	21.3	25.9	25.4	25.1	12.1	10.2	8.4	9.4	8.9	12.7	8.1	9.2	9.4	6.5	7.8	7.3	6.2	9,4	9.2
TP (mp/gn)	1.0	1.6	429.9	416.7	32.5	41.1	25.6	30.2	41.1	38.7	34.9	27.9	51.1	31.0	28.7	16.3	11.6	14.7	28.7	14.7	19.4	21.7	13.2	9.3	10.1	20.9	26.3	15.5
TN (ug/dm³)	Detection limit	41	816	933	755	669	472	1273	680	283	929	755	1069	853	971	536	785	412	291	631	548	472	427	415	306	661	809	385
TOC (mg/dm³)	Detect	0.18	4.85	4.47	3.07	3.61	2.84	2.86	2.95	3.22	4.00	4.81	3.31	3.38	3.45	2.62	3.21	4.26	2.46	3.16	2.65	2.51	3.11	2.80	2.93	2.90	2.92	3.19
Hd		0.10	7.79	7.76	8.17	8.19	8.18	8.17	8.18	8.18	7.94	8.08	7.99	8.37	8.40	8.34	8.32	8.31	8.26	8.43	8.38	8.28	8.27	8.27	8.31	8.28	8.29	8.36
BOD, (mg/dm <sup>3</sup> )		0.20	2.63	2.39	1.19	0.84	0.34	0.88	0.63	0.77	1.30	1.10	0.86	1.55	1.57	1.16	1.59	1.26	0.32	1.43	0.78	1.18	1.41	0.43	0.10*	1.72	1.02	0.48
CODMI (mg/dm <sup>3</sup> )		0.10	2.13	1.86	1.05	0.83	0.52	69.0	0.64	0.87	2.09	2.09	1.22	1.22	1.00	0.64	06:0	0.62	0.33	1.10	08.0	0.47	0.36	0.53	0.85	0.47	0.35	0.80
DO (mg/dm³)		0.12	5.25	4.99	7.92	7.96	7.31	7.26	7.15	7.02	8.43	9.07	7.48	9.46	9.59	8.30	9.05	8.18	7.25	9.13	7.69	8.23	8.40	7.64	7.19	8.63	8.08	7.45
ه . د . د . د .	Salinity		24.517	25.173	22.262	25.134	28.640	27.989	28.955	29.368	14.022	16,143	20.124	25.776	27.383	28.035	26.221	29.931	30,302	22.310	26.076	28.090	22.914	30.267	30.371	23.951	28.353	28.815
Water	temperature (°C)		20.02	19,52	19,31	18.97	18,96	19.02	18.90	18.81	18.94	18.39	18.14	18.95	18.74	18.59	20.69	19.08	18.97	19.23	18.50	18.55	21.03	18.75	18.73	19.43	18.62	18.59
Sampling	depth (m)	<b></b>	1.0	2.0	1.0	3.5	5.9	1.0	5.6	9.5	1.0	2.5	4.0	1.0	3.0	5.0	1.0	6.5	12.0	1.0	2.8	4.5	1.0	6.5	12.0	1.0	3.5	5.9
٥٠	<u></u>	_	S	В	S	Σ	В	S	Σ	В	S	М	В	S	Σ	В	S	Σ	В	S	Σ	В	S	Σ	В	S	Σ	В
g g	•••	Min	55		19			46			05			07			38			=			51			27		]
Sampling time	<b>)</b>	Ξ	11	$\Box$	06 11			06 07			5 17			5 17			06 13			05 16			6 12		$\Box$	5 15	$\Box$	$\exists$
ıplin		Q W	03 06		33 06	_		33		$\dashv$	03 05 17			03 05	$\dashv$	$\dashv$	33 06	$\dashv$	$\dashv$	03 05	$\rightarrow$		03			03 05		$\dashv$
Sam	. '	<del>-</del>	2001	$\dashv$	2001 03	$\dashv$		2001 03			2001		$\exists$	2001		$\dashv$	2001 03			2001			2001 03 06 12		_	2001	$\dashv$	$\dashv$
1	<u>.</u>			-		-	-			$\dashv$		_				$\dashv$					_		$\neg$		-		$\dashv$	$\dashv$
Point		``	P10		P11			P12			P14			P15	ļ	_	P16			P17			P18		_	P19	[	_
	ŻĢ.		27	28	20	98	31	32	33	34	35	36	37	38	39	9	41	42	43	#	45	97	47	<b>∞</b> +†	\$	50	5.	52

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WATER QUALITY DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY (Intensive point in neap tide)

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Ž	Point		Sampling time	ne		Sampling	Water	: ::	DO (mg/dm³)	CODM. (mg/dm³)	BOD, (mg/dm³)	Hď	TOC (mg/dm³)	TN (mb/gn)	TP (ug/dm³)	PO4-P (ug/dm³)	SiO <sub>2</sub> -Si (ug/dm <sup>3</sup> )	N-zON (ub/gu)	NO <sub>3</sub> -N (ug/dm³)	NH <sub>3</sub> -N (ug/dm <sup>3</sup> )	Hg (ub/gn)
	Š.				a -		(C) (C)	- fallen					Detect	Detection limit					-		
		Y	м р н	Min	<b>-</b>				0.12	0.10	0.20	0.10	. 81'0	14	1.6	1.0	14	5.0	0.9	5.0	0,0064
53	<b>P</b> 20	2001 03 05	03 05 07	30	S	1.0	18.60	29.628	7.82	0.28	0.85	8.27	2.69	370	11.6	4.6	1284	18.9	118.0	30.3	0.0081
54					Σ	0.6	18.67	30.767	7.88	0.26	0.61	8.27	3.06	279	11.6	5.7	748	11.1	79.4	34,4	
55					В	17.0	18.66	30.815	7.90	0.30	0.77	8.29	2.93	313	10.8	4.9	601	11.7	56.9	33.5	0.0032*
56	P21	2001	03 05 14	42	s	1.0	18.93	23.308	9.04	0.71	2.13	8.29	2.89	684	38.7	7.0	1089	60.1	390.6	67.6	0.0067
57					Σ	3.7	18.60	29.633	8.25	0.65	1.24	8.35	2.91	529	28.5	6.7	565	38.9	265.5	78.0	
58					В	6.3	18.60	29.644	7.84	1.10	1.10	8.42	2.99	465	20.9	7.8	671	29.7	245.9	72.9	0.0129
59	P22	2001	03 05 08	50	S	1.0	18.71	30.408	7.66	0.61	0.48	8.34	2.67	249	6.2	5.9	909	15.3	81.5	17.7	0.0079
09					Σ	6.0	18.70	30.451	7.72	0.77	0.35	8.36	2.64	317	10.8	10.2	860	14.5	73.8	38.5	
61					В	11.0	18.83	31.253	7.50	0.88	0.37	8.39	2.33	681	10.1	7.0	512	10.1	68.1	20.5	0.0032*
62	P23	2001	2001 03 05 09	53	S	1.0	18.41	22.177	8.25	0.20	0.10*	8.27	3.48	831	14.7	12.4	1205	67.5	347.7	94.1	0.0032*
63					Σ	5.0	18.56	28.865	8.23	69.0	0.78	8.28	3.24	536	13.2	8.9	1142	55.6	305.6	75.5	
64					8	9.0	18.77	31.060	7.31	0:30	0.39	8.29	2.84	208	7.0	5.9	807	11.7	73.8	26.2	0.0106
65	P24	2001	2001 03 05 12	37	S	1.0	18.29	20.085	8.17	0.20	69.0	8.19	3.29	755	27.1	12.4	1535	71.9	480.5	85.6	0.0032*
99					В	3.9	18.10	24.499	7.97	0.55	1.00	8.20	3.19	199	23.2	12.1	1344	8.89	343.5	6.09	0.0088
67	P25	2001	2001 03 05 11	23	S	1.0	18.71	29.574	7.66	0.32	0.47	8.29	2.73	264	15.5	5.9	524	17.8	140.5	53.0	0.0110
89					Σ	10.0	19.17	31.317	7.70	0.30	0.85	8.34	4.13	363	12.4	11.1	418	13.4	79.4	48.0	
69					B	19.0	19.32	31.741	7.18	0.30	0.36	8.34	3.08	378	8.5	6.7	359	6.5	34.4	36.6	0.0032*
70	P27	2001	2001 03 05 13	52	S	1.0	18.75	24.641	8.97	08.0	1.34	8.35	3.03	551	21.7	7.0	1060	9.09	362.5	79.9	0.0085
71					Σ	3.5	18.69	24.797	8.95	0.81	1.81	8.37	3.09	491	17.0	7.8	1118	60.3	353.4	44.5	
72					В	6.0	18.36	30,161	7.26	0.39	0.61	8.31	2.86	351	17.8	8.9	553	22.3	146.8	48.0	0.0143

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Total page: 6

	KERTK		*: Half value	or derection limit							·										*: Half value	or detection limit						
Coliform (ind/100cm <sup>3</sup> )		2	308		16	172		36	36	36	116		84	36		12	91		20	16		4	4		•1	100		336
Chl-a (mg/m³)		0.10	5.00	0.43	69.0	2.32	1.36	1.31	24.85	15.32	10.27	7.71	7.15	4.86	2.92	1.76	18.85	10.16	2.48	95'9	5.66	5.72	7 45	5.81	1.70	5.13	1.68	1.36
SS (kg/m²)		0.0015	0.0229	0.0357	0.0190	0.0098	0.0138	0.0338	0.0047	0.0200	0.0158	0.0110	0.0146	0.0000	0.0162	0.0206	0.0074	0.0083	0.0233	0.0209	0.0164	0.0186	0.0052	0.0103	0.0111	0.0080	0.0109	0.0137
(UV) (kg/m³) (kg/m³)		0.010	0.061			0.030			0.047		0.031			0.027			0.022			0.028			0.022			0.017		
As (ug/dm²)		0.05	1.50		1.58	1.30		2.04	1.23	1.78	2.19		3.21	1.26		1.49	1.82		1.83	1.79		1.83	1.23		1.29	1.43		1.81
Cd (ug/dm³)	Detection limit	0.01	0.42		99.0	0.25		0.15	0.17	0.17	0.13		0.20	0.26		0.19	0.18		0.20	0.18		98'0	0.11		0.26	0.21		0.23
Pb (ug/dm³)	Detecti	0.03	5.74		0.89	5.64		1.54	4.62	4.27	0.71		1.15	1.00		1.23	1.75		1.31	0.55		0.26	1.93	_	1.87	1.24		2.91
Zn (ug/dm³)	7 10-1	3.1	35.5		49.1	26.8		15.5	22.0	27.1	42.1		24.3	16.1		38.5	15.5		24.4	10.9		18.6	11.7		15.3	30.2		15.2
Cu (ug/dm³)	,	0.2	4.0		3.9	2.8		1.5	1.9	2.7	3.9	:	4,4	1.5		1.9	1.2		1.2	2.6		3.7	1.4		0.7	1.2		1.0
D v i	<u>-</u>	4	S	Σ	В	S	Σ	В	S	В	S	Σ	В	S	Σ	В	S	Σ	В	S	M	В	s	Σ	B	S	Σ	В
Sampling time		Y M D H Min	2001 03 04 12 56			2001 03 06 07 20			2001 03 05 09 05		2001 03 05 13 10			2001 03 06 09 23			2001 03 06 08 55			2001 03 05 11 58			2001 03 06 10 35			2001 03 06 10 26		
Point	ź		P01			P02		-	P03		P04			P05			P06			P07			P08			P09		
Ž	2			7		4	'n	.9	7	သ	c)	10	=	12	13	7	ij	16	17	18	19	20	21	22	23	24	25	26

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WATER QUALITY DATA SHEET ON TRANSITIONAL SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY (Intensive point in neap tide)

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12000													*:Half value	or detection limit														
	, 		- 1				T			1			*	<u>=</u>	T	- 1			<del></del> 1	<del></del> -	· <sub>1</sub>					_		
Coliform (ind/100cm <sup>3</sup> )		2	1960	1536	88		1*	44		648	16		24	*		***	*-		*-	4		47	4		-	80		28
Chl-a (mg/m³)		01.0	8.32	5.91	5.51	5.73	0.41	2.95	2.98	2.35	10.48	7.27	4.77	11.00	6.98	3.52	6.50	6.21	1.21	9.48	5.34	2.10	7.75	3.37	1.09	6.68	3.10	1.33
SS (kg/m³)	-	0.0015	0.0373	0.0240	0.0072	0.0081	0.0137	0.0188	0.0229	0.0638	0.0080	0.0056	0.0234	0.0026	0.0054	0.0053	0.0047	0.0106	0.0169	0.0048	0.0103	0.0079	0.0024	0.0041	0.0114	0.0068	0.0054	0.0071
Oil (UV) (mg/dm <sup>3</sup> )		0.010	0.051		0.017			0.020			0.020			0.024			0.021			0.029			0.022			0.026		
As (ug/dm³)		0.05	1.71	1.29	1.21		1.19	1.32		1.43	1.96	,	2.55	1.22		1.10	1.09		1.12	1.08		1.12	1.72		1.55	1.04		1.13
Cd (ug/dm³)	Detection limit	0.01	0.21	0.23	0.21		0.21	0.41		0.16	0.28		0.34	0.41		0.18	0.09		0.04	0.20		0.10	0.06		0.12	0.13		0.10
Pb (ug/dm³)	Detecti	0.03	1.09	1.15	3.76		3.56	1.40		0.78	1.71		1.72	4.54		2.12	1,40		0.86	3.55	_	2.87	3.62		3.57	3.03		3,37
Zn (ug/dm³)		3.1	24.5	31.7	9'01		10.0	21.4		16.3	15.5		32.8	21.8		26.9	22.6		16.0	24.8		25.5	18.6		14.4	11.2		14.6
Cu (ug/dm³)		0.2	0.8	1.7	1.2		8.0	0.5	į	0.7	2.3		1.9	1.3		1.3	1.0		0.9	1.3		0.9	0.9		6.0	0.2		9.0
۵۰،	3. +•		S	В	S	Σ	В	S	Σ	В	S	Σ	В	s	Σ	В	S	Σ	В	S	Σ	В	S	Σ	В	s	Σ	В
Sampling time		Y M D H Min	2001 03 06 11 55		2001 03 06 11 19			2001 03 06 07 46			2001 03 05 17 05			2001 03 05 17 07			2001 03 06 13 38			2001 03 05 16 11			2001 03 06 12 51			2001 03 05 15 27		
Point	ź		P10		P11			P12			P14			P15			P16		Ī	P17			P18			P19		
ž			27	28	29	30	31	32	33	34	35	36	37	38	39	2	7	7	43	7	45	16	47	×	9	50	51	52

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Total page: 6

	Remark				+: Half value	of detection limit																
Chl-a Coliform (mg/m³) (ind/100cm³)		2	95		28	40		20	32		20	20		8	<b>††</b>	9€	28		20	95		28
		0.10	1.16	1.14	1.61	2.95	5.00	3.23	1.06	1.19	1.06	2.04	2.41	1.66	2.48	1.51	1.82	1.57	0.93	3.89	4.70	1.75
		0.0015	0.0057	0.0047	0.0059	0.0063	0.0096	0.0068	0.0036	0.0046	0.0027	0.0021	0.0024	0.0057	0.0071	0.0065	0.0052	0.0039	0.0053	0.0015	0.0035	0.0116
Cu         Zn         Pb         Cd         As         1 Oil           (ug/dm³)         (ug/dm³)         (ug/dm³)         (ug/dm³)         (ug/dm³)         (ug/dm³)		. 0.010	0.034			0.015			0.016			0.005*			0.017		0.005*			0.018		
As (ug/dm³)		- 0.05	1.09		0.95	1.12		1.16	1.12		1.06	1.15		1.06	1.12	1.18	0.98		0.99	1.31		1.14
, Cd (ug/dm³)	Detection limit	0.01	0.22		0.62	0.15		0.15	0.21		0.47	0.30		0.22	0.07	0.22	0.04		0.16	0.43		0.65
Pb (ug/dm³)	Detect	0.03	2.29		2.06	4.32		2.23	5.06		3.60	1.88		2.68	3.34	3.29	0.53		0.70	2.20		2.23
Zn (ug/dm³)		3.1	14.2		19.3	12.7		8.8	20.4		21.7	20.4		21.7	26.9	28.1	12.2		16.1	19.5		28.3
Cu (ug/dm <sup>3</sup> )	-	0.2	0.4		1.0	4.0		0.2	1.0		3.3	1.2		6.4	6.0	1.1	1.0		1.5	6:0		9.1
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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season --- 1

CYANOPHYTA  Andaucius sp. Aphanizomeno Coelosphaeriu. Cyanophyceae Gloeothea sp. Hammatodea st. Lyngbya contai Lyngbya sp. Merismopedia Merismopedia Merismopedia Merismopedia	Species name Layer	L				22	_	ς.	- F		₹		Δ,	P05		P06			P07	
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$\overline{}$	Trichodesmium thiebautii									-			551							
IA	Cryptomonas sp.		_		190		-							-						
21 DINOPHYTA Ceratiu	Ceratium furca													_	-	_				
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	in a soir	Species name	52 BACILLARIOPHY Achnanthes sp.	Actinocyclus crassus	cvelus f	prychus	Amphiprora ulata	Amphora sp.	Asterionella japonica	ulphalu	riastrum	rightum	riastrum	Bacteriastrum minus	Hacteriastrum varians	Biddulphia sinensis	Caloneis bacillaris	vlodiscu	Cerataulina compacta	Chaetoceros affinis	oceros a	Chaetoceros borealis	Chaetoceros brevis	oceros c	oceros c	oceros c	Chaetoceros costatus	OCOLOG C	Charloceros carrisen	Chactoceros debilis	Ocoros a	Chaetoceros densus	veeros a	oceros a	oceros h	Chaetoceros indicum	Chaetoceros lauderi	oceros	oceros p	Chaetoceros radianus	Chaetoceros rostratus	foceros s	Chaetoceros socialis	occros a	Charloceros va	Carethron hyserix	Corethron sp.	nodiscus	nodiscus	nodiecon
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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -- 6

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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -7

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Species and cell number of Phytoplankton in Pearl River Estuary: Intermediate Season --- 8

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Remark: \* Show qualitative analysis .

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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -- 10

Species and cell number of Phytoplankton in Pearl River Estuary: Intermediate Season -- 11

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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -12

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		Species name	Mesocena polymorpha v. bioctonari	Achnanthes sp.	Actinocyclus crassus	Actinocyclus Ehrenberyi	Actinoptychus undulatas	Amphiprora alata	Amphora sp.	Asterionella japonica	Asteromphalus cleveanus	Bacteriastrum elongatum	Bacteriastrum hyalinum	Bacteriastrum mediterraneum	Bacteriastrum minus	Bacteriastrum varians	Biddulphia sinensis	Caloneis bacillaris	Campylodiscus Brightwellii	Cerataulina compactu	Chaetoceros affinis	Chaetoceros atlanticus	Chaetoceros borealis	Chaetoceros brevis	Chaetoceros castracanei	Chaetoceros compressum	Chaetoceros convolutus	Chaetoceros costatus	Chaetoceros curvisetus	Chaetoceros danicus	Chaetoceros debilis	Chaetoceros decipiens	Chaetoceros densus	Chaetoceros denticulatus	Chaetoceros denticulatus f. angusta	Chaetoceros holsaticus	Chaetoceros indicum	Chaeloceros lauaeri	Chartoceros torencianas	Chaetoceros radianus	Chactoceros rostratus	Chaetoceros siamense	Chactocoros socialis	Chaetoceros subsecundus	Chaetoceros weissflogii	Chaetoceros sp.	Corethron hyserix	Corethron sp.	Coscinodiscus anguste-lineatus	Coscinodiscus asteronphalus	Coscinodiscus bipartitus
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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -13

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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season - 14

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Species and cell number of Phytoplankton in Pearl River Estuary : Intermediate Season -15

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Stn.	Layer	į	n.s													ularis								ıfus	s var. lin	4.5	nda		des						
	Species name	Actinastrum hantzschii	Ankistrodesmus falcatus	Ankistrodesmus sp.	Chlamvdononas sp.	Chlorella sp.	Chroacoccopsis sp.	Chroococcus turgidus	Chroococeas sp.	Closterium sp.	Соѕтатит ѕр.	Crucigenia apiculata	Crucigenia puadrata	Crucigenia quadrata	Crucigenia sp.	Dactylococcopsis acicularis	Gloeocystis sp.	Hantzschia sp.	Oocystis sp.	Pediastrum sp.	Raphidonema nivale	Raphidonema sp.	Scenedesmus bijuga	Scenedesmus denticulatus	Scenedesm <u>us dentic</u> ulatus var. linear	Scenedesmus dimorphus	Scenedesmus quadricauda	Scenedesmus sp.	Schroederia nitzschioides	Selenastrum sp.	Tetradesmus sp.	Tetraedron sp.	Westellopsis linearis	Halosphaera viridis	Chlorophyceae
		CHLOROPHYTA					,																												
L	ź	201	202	203	202	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	7 1	223	224	522	226	227	228	229	230	231	232	233	5

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season-1

Unit: ind/m³	P10	15852.00	76.00	92.00						36.00					36.00	i	52.00	72.00										90.09	1820.00		180.00					
ם	P09	42734.52	20.24	14.29											7.14		8.33	10.71			7.14	-			109.52	4.76		45.24	28.57		54.76					
į	P08	952897.13	50.24	45.45											11.96			62.20							9.57			81.34	100.48		52.63					
	P07		25.00	19.23			21.15				3.85				13.46		23.08	34.62		,					3.85			3.85	357.69		30.77					
	P06	597158.14	62.79	41.86	-										27.91		27.91	81.40			9.30				23.26	9.30		125.58	74.42		37.21					
	P05	7172.73	6.97	02.69		3.03									36.36		21.21	496.97							45. 45			318.18	454.55		484.85	30.30	15.15			
	P04		19.12	19.12			23.53								4.41		10.29	405.88	48.53	55.88					4.41				2907.35							
	P03	1576.67	26.67	73.33			30.00								29'9		26.67	1340.00		160.00					3.33			3.33	3150.00		13.33					
	P02	527230.67	22.67				25.33				16.00				17.33	4.00		4.00								8.00			404.00		28.00					
	P01	174894.36	4.31	2.87			2.87				2.16				2.16	0.72		5.39					-			7.19			13600.43		10.78					
	Stn. No.	Noctiluca scintillans	Tintinnopsis sp.	Favella sp.	Euphysora bigelowi	Eirene sp.	Malayazzia sp.	Liriope tetraphylla	Aglaura hemistoma	Leptomedusae sp.	Bougainvillia ramosa	Muggiae atlantica	Diphyes chamissonis	Lensia subtiloides	Pleurobrachia globosa	Beroe cucumis	Atlanta sp.	Polychaeta larvae	Penilia avirostris	Podon schmackeri	Cypridina acuminata	Euconchoecia aculeata	Halocypria globosa	Canthocalanus pauper	Neocalanus gracilis	Acrocalanus gracilis	Acrocalanus longicornis	Paracalanus aculeatus	Paracalanus crassirostris	Paracalanus nanus	Paracalanus parvus	Paracalanus serrulus	Clausoculanus farrani	Clausoculanus furcatus	Euchaeta concinna	Euchaeta plana
		DINOPHYTA	CILIOPHORA		CNIDARIA		·		***				·T		CTENOPHORA		16 MOLLUSCA	ANNELIDA	18 ARTHROPODA				•													
	N <sub>0</sub>		2	3	4	\$	9		8	6	10	Ξ	12	13	4	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season-2

No.	Stn. No.	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10
36 ARTHROPODA	Temora discaudata										
37	Temora turbinata									2.38	
38	Canthocalanus tenuiremis					15.15	37.21		19.14	66.67	20.00
39	Schmackeria laeyidactylus			29'9							
40	Schmackeria inopinus				26.47	<del></del>					
41]	Schmackeria poplesia	9464.61	88.00	10.00	352.94		65.12		86.12		60.00
42	Lubidocera bipinuata										
43	Pantellopsis regalis										
4	Acartia erythraea		8.00			121.21	18.60			9.52	1500.00
45	Acartia spinicanda	28.75	40.00			530.30	134.88	23.08	14.35	57.14	1780.00
46	Acartiella sinensis	21.56		33.33	8.82	30.30	13.95				
47	Tortanus dextrilobatus	14.37	4.00		123. 53						
48	Tortanus spinicaudatus				8.82						
49	Oithona attenutus									16.67	
50	Oithona brevicornis	50.31	24.00			757.58	93.02	23.08	43.06	130.95	1140.00
51	Oithona decipians									7.14	
52	Oithona fallax	7.19									
53	Oithona nana						13.95				
54	Oithona rigida										
<u>8</u>	Oithona simlis	86.24	76.00	13.33		1181.82	116.28	53.85	71.77	266.67	800.00
26	Oithona simplex										
57	Oithona tennis										
58	Oncaea conifera										
50	Oncaea dentipes										
3	Oncaca media										
61	Oncaea mediterranea					30.30					
62	Oncaea minuta										
63	Oncaea simlis			3.33		30.30					
64	Oncaea venusta						4.65				
65	Corycaeus affinis		16.00	29.9		106.06	32.56		4.78	45.24	
99	Corycaeus dahli								4.78		
67	Corycaeus erythraeus								9.57		
89	Corycaeus giesbrechti										
69	Corycaeus longicaudis								4.78		
70]	Corveaeus lubbocki		4.00	3 33		1515		09 2		11 11	

Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season—3 Table

	•										Unit: ind/m³
No.	Sin. No. Species name	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10
71 ARTHROPODA	Corycaeus robustus										
72	Corycaeus rostratus						13.95				
73	Corycaeus subtilis					30.30	18.60				
74	Microsetella norvegica					15.15	9.30			64.29	20.00
75	Microsetella rosea				-					4. 76	
	Euterpina acutirons						18.60			7.14	
77	Clytemnestra rostrata										
78	Clytemnestra scutillata										
79	Setella gracilis										
08	Copepoda larvae	2723.68	728.00	813.33	648.53	6242.42	1269.77	150.00		1678.57	8400.00
81	Eupronoe minuta										
82	Lycaea pulex										
83	Euphausia nana										
84	Euphausia pacifica										
85	Euphausia sanzoi										
98	Pseudeuphausia latifrons					21.21	86.9				
87	Pseudeuphausia larvae	1.80				18.18	4.65				
88	Exopulaemon sp.	0.72									
68	Macrura larvae	2.52	5.33	56.67	23.53	54.55	27.91	7.69	9.57	14.29	28.00
90	Brachyura larvae	1.08	4.00	70.00	4.41	36.36	11.63	3.85	28.71	4.76	228.00
91 CHAETOGNATHA	Sagitta bedoti								9.57	3.57	,
92	Sagitta enflata		1.33			60.6	2.33			9.52	
93	Sagitta nagae					90'9			4.78	2.38	
	Sagitta neglecta										
95	Sagitta regularis										
96	Chaetognata larvae	0.36				27.27	23.26		28.71	30.95	4.00
97 PROTOCHORDATA Oikopleura albicans	Oikopleura albicans					36.36	9.30	:	19.14	33.33	84.00
	Oikopleura fusiformis						41.86			26.19	
66	Oikopleura intermedia						13.95		21.53	29.76	148.00
100	Oikopleura longicauda					18.18	9.30			17.86	68.00
101	Oikopleura rufescen					42.42	18.60		38.28	61.90	128.00
102	Fritillarva formica						30.23				
103	Althoffia tumida									15.48	
104	Dolioleta gegenbauri										
105	Doliolum denticaulatum										

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season — 4

Unit: ind/m3

	Stn. No. Species name	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10
36 PROTOCHORDATA Brooksia rostrata	Brooksia rostrata										
107 VERTEBRATA	Fish egg		2.67			90.9					
108	Fish larvae									2.38	

Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season - 5 Table

No.   Specie name											- - - - - - - - - - - - - - - - -		Unit	Unit: ind/m³.
DINOPHY7A   Nocetimes scientilians   2319848.9   21151   21154   21151   21154   21151   21154   21151   21154   211	No.		/	P11	P12	P14	P15	P16	P17	P18	P19	P20	P21	P22
CHIOPHORA Traininguists yp.         58.82         1.131         67.00         45.45         18.18         18.39         11.86         12.99         3.107           CNIDARIA Elephsora bigelowic         58.82         11.73         57.50         31.47         18.18         18.39         21.74         7.69         21.07           CNIDARIA Elephsora bigelowic         5.50         10.00         3.61         3.62         3.62         3.64	1	DINOPHYTA	Noctiluca scintillans	231938.50			20937.06		500.00	4286.01	4256.92	5534.27	122433.47	144735.00
CNIDARIA         Epoyola vy gelovet bygelove	2	CILIOPHORA	Tintinnopsis sp.	58.82	21.51	60.00	45.45		21.82	16.34	11.86	12.59	33,47	19.61
CNIDARIA Europhysical Elegency In Elegency (Elegency)         Elegency (Elegency)         10.00         1.00	3		Favella sp.	58.82	11.73	57.50	31.47	18.18	18.18	18.39	21.74	7.69	21.07	15.45
Extreme systems of the control of the contr	4	CNIDARIA	Euphysora bigelowi										1.24	
MODILISCA         MODILISCA         10,000         350         10,20	5		Eirene sp.											
Algumediance terrephyliae   124   Algumediance terrephyliae   124   Algumediance terrephyliae   125   126   128	9		Malayazzia sp.			10.00								
Agiance homistoma         2.07         0.98         3.50         1.04         3.50         1.01         3.64         2.04         7.1         1.02         1.03	7		Liriope tetraphylla										1.24	
CTENOPHORA         Leptomeclatace sp.         2.67         0.98         3.50         10.10         3.64         2.04         7.91         2.07         6.20           Diphyer chamissonia         5.35         10.00         6.59         1.01         3.64         2.04         7.91         2.10         6.20           CTENOPHORA         Reural subcloideds         8.02         11.73         35.00         13.99         8.05         11.84         0.70         4.90           ARTHROPOA         Reural properting globosa         8.02         2.33         11.75         30.594         2.02         5.10         4.90         11.24           ARTHROPOA         Polychect lature         895,72         21.51         17.50         80.59         2.02         5.10         4.90         11.24           ARTHROPOA         Polychect actualized         895,72         21.51         17.50         80.50         5.1         43.48         33.57         1.90           ARTHROPOA         Polychect actualized         18.72         21.39         62.56         8.00         11.84         33.57         14.60         13.64           ARTHROPOA         Polychidua cruciarea         18.2         3.91         13.59         8.0         14.88<	∞		Aglaura hemistoma							2.04			1.24	2.38
MOLLUSCA         Administrations concinues gracultina rannosa         5.35         10.100         3.64         2.04         7.91         2.10         6.20           CIENOPHORA         Publyges enhanistants         8.35         11.01         3.64         3.04         7.91         2.10         6.20           CIENOPHORA         Pervententia globosa         8.02         11.73         35.00         13.99         8.08         3.64         3.06         11.86         0.70         1.23           ANNELLUSCA         Advance sp.         16.04         2.93         10.49         2.02         3.06         11.86         0.70         1.24           ANNELLUSCA         Advance sp.         16.04         2.93         10.49         2.02         69.10         5.11         43.48         33.57         71.90           ANNELLUSCA         Advance sp.         16.04         3.91         10.42         2.02         69.10         5.11         43.48         33.57         71.90           ANNELLUSCA         Advance specifier         16.04         3.91         10.23         2.02         5.10         5.10         71.90           ANNELLUSCA         Advance specifier         18.72         3.95         2.03         7.15         4.48	6		Leptomedusae sp.	2.67	86'0		3.50							
Mutegare adiantica         5.35         101         3.64         2.04         7.91         2.09         6.99           CTENOPHORA Pleurobrackia globosa         8.02         11.73         35.00         13.99         8.08         3.64         3.06         1.18         0.70         4.96           ANNELLIDA Ploytacta larcote acuteria         16.04         2.35         10.49         2.02         60.09         5.11         43.48         33.57         7.190           ANNELLIDA Polychacta larcote globosa         805.72         21.51         17.50         36.54         2.02         60.09         5.11         43.48         33.57         7.190           ANNELLIDA Polychacta larcote acuteria         16.04         2.35         21.51         17.50         36.54         2.02         60.09         5.11         43.48         33.57         7.190           ANNELLIDA Polychacta larcote acuteria         16.04         3.91         19.23         2.02         60.09         5.11         43.48         33.57         7.190           ANNELLIDA Polychacta larcote acuteria         16.04         3.91         13.93         8.09         5.11         43.48         33.57         7.190           ANNELLIDA Polychacta larcote acuteria         18.72         3.91	10		Bougainvillia ramosa			10.00								
CTENOPHORA         Diphyer chamissonis         6.99         1.01         1.24         1.24           CTENOPHORA         Ecrisa abidicides         8.02         11.73         35.00         13.99         8.08         3.64         3.06         1.18         1.24           ACLLUSCA         Atlanta sp.         16.04         2.93         10.49         8.08         3.64         3.06         1.18         0.70         4.96           ANNELIDA         Atlanta sp.         16.04         2.93         10.49         2.182         3.06         1.18         0.70         4.96           ANNELIDA         Atlanta acuminata         16.04         2.93         1.73         36.59         6.90         5.11         4.96         1.24           ANNELIDA         Polybacharaceri         16.04         3.05         6.90         5.11         4.96         1.73           ANNELIDA         Polybacharaceri         18.72         3.91         19.23         2.02         6.90         5.11         4.96         11.24           ANNELIDA         Polybacharaceri         18.72         3.91         1.923         3.06         5.11         4.34         3.35.7         7.10           ANNELIDA         Polybacharaceri <t< td=""><td>11</td><td></td><td>Muggiae atlantica</td><td>5:35</td><td></td><td></td><td></td><td>1.01</td><td>3.64</td><td>2.04</td><td>7.91</td><td>2.10</td><td>6.20</td><td>1.78</td></t<>	11		Muggiae atlantica	5:35				1.01	3.64	2.04	7.91	2.10	6.20	1.78
CTENOPHORA         Fleurobrachia globosa         8.02         11.73         35.00         13.99         8.08         3.64         11.86         0.70         4.96           MOLLUSCA         Atlanta sp. Bearobrachia globosa         16.04         2.93         10.49         21.82         3.06         11.84         0.70         4.96           MOLLUSCA         Atlanta sp. Bearotes larvae         895,72         2.151         17.50         30.594         2.02         69.09         5.11         43.48         33.57         71.90         4.96           ANNELLDA         Polychacta larvae         895,72         2.151         17.50         30.59         2.0         5.18         3.06         5.11         43.48         33.57         71.90         4.06           ANNELLDA         Polychacta larvae         895,72         2.151         17.50         30.59         2.18         2.18         3.0         1.24         4.18 <t< td=""><td>12</td><td></td><td>Diphyes chamissonis</td><td></td><td>-</td><td></td><td></td><td>1.01</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	12		Diphyes chamissonis		-			1.01						
CTENOPHORA         Pleurobrachia globosa         8.02         11.73         35.00         13.99         8.08         3.64         3.06         11.80         0.70         4.90           MOLLUSCA         Atlantas         16.04         2.93         10.49         2.182         3.06         9.09         9.02           ANNILLUSCA         Atlantase         16.04         2.93         10.49         2.02         69.09         5.11         43.48         33.57         71.90           ANNILLUSCA         Atlantase         805.72         21.51         17.50         305.44         2.02         69.09         5.11         43.48         33.57         71.90           ANNILLUSCA         Poulria avirostris         16.04         3.91         17.50         305.44         2.02         69.09         5.11         43.48         33.57         71.90           ARTHROPODA         Poulria cauchiant         18.72         3.91         19.23         8.06         3.06         23.72         14.69         14.88           ARTHROPODA         Poulria cauchiant         18.72         3.91         19.23         8.06         3.06         23.72         14.69         13.64           Accocalenus gracults         21.39         62.56	13		Lensia subtiloides		•	-	66.9						1.24	
MOLLUSCA         Atlanta sp.         15.04         1.82         3.06         9.09         1.24           ANNELLUSCA         Atlanta sp.         16.04         2.93         10.49         2.182         3.06         9.09         9.02           ANNELLUSA         Atlanta sp.         16.04         2.93         17.30         30.54         2.02         69.09         5.11         43.48         33.57         71.90           ANNELLUSA         Pollon schmackeri         895.72         21.51         17.50         30.54         20.0         69.09         5.11         43.48         33.57         71.90           ARTHIROPODA         Poultor schmackeri         16.04         3.91         19.23         CP         43.48         33.57         71.90           Copyridina ecuminata         16.04         3.91         19.23         CP         43.66         13.69         43.67         13.69         13.64         13.69         13.67         13.69         13.64         13.69         13.64         13.69         13.64         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69         13.69	14	CTENOPHORA	Pleurobrachia globosa	8.02	11.73	35.00	13.99	80.8	3.64	3.06	11.86	0.70	4.96	
ANNELIDA Polychecta larvae S 895,72 21,51 17,50 305,94 2.02 69,09 5.11 43,48 33,57 71,30 ANNELIDA Polychecta larvae 895,72 21,51 17,50 305,94 2.02 69,09 5.11 43,48 33,57 71,30 Cyridina acuminata 16,04 3.91 19,23 11,39 11,30 21,67 11,48 21,4	15		Beroe cucumis						1.82				1.24	
ANNELIDA         Polychaeta larvae         895,72         21.51         17.50         30.594         5.11         43.48         33.57         71.90           ARTHROPODA         Poulan schmackeri         16.04         3.91         19.23         19.23         16.04         17.50         16.08         17.90         17.90           Cypring acuteata         18.72         3.91         13.59         18.69         18.60         23.72         14.69         13.64           Halocypria globosa         20.08         21.39         6.99         18.60         23.72         14.69         13.64           Halocypria globosa         21.39         6.99         19.23         23.72         14.69         13.64           Arocalanus gracilis         21.39         6.90         41.8         11.46         11.40         23.72         14.69         13.64           Arocalanus gracilis         21.39         6.90         41.8         14.69         13.64         13.64           Arocalanus gracilis         10.70         21.30         13.50         60.61         47.27         24.51         83.00         99.91           Paracalanus caucieaus         491.18         43.01         136.73         16.04         49.03         3	16	MOLLUSCA	Atlanta sp.	16.04	2.93		10.49		21.82	3.06		60.6	9.92	3.57
ARTHROPODA         Penilia avirostris         Cypridina avirostris         Penilia avirostris         Penilia avirostris         Penilia avirostris         Penilia avirostris         Penilia avirostris         Penilia avirostris         19.23         Penilia         27.67         16.08         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.88         14.89         14.14         21.82         36.77         3.99         2.48         14.88         14.14         21.82         36.77         36.99         2.48         14.88         14.14         21.82         36.77         36.99         2.48         14.88         14.14         21.82         36.77         36.99         2.48         14.88         14.14         21.82         36.77         36.99         2.48         14.88         14.14         21.82         36.77         36.99         37.80         14.8         14.8         141.41         21.82         36.77         36.99         37.80         14.8         14.8         141.41         21.82         36.77         36.99         37.80         36.71         36.99         37.80         36.73         36.73         36.73         36.73         36.73 <td></td> <td></td> <td>Polychaeta larvae</td> <td>895.72</td> <td>21.51</td> <td>17.50</td> <td>305.94</td> <td>2.02</td> <td>60.69</td> <td>5.11</td> <td>43.48</td> <td>33.57</td> <td>71.90</td> <td>16.04</td>			Polychaeta larvae	895.72	21.51	17.50	305.94	2.02	60.69	5.11	43.48	33.57	71.90	16.04
Podon schmackeri         16.04         3.91         19.23         18.68         14.88           Cypridina acuminata         16.04         3.91         19.23         3.06         27.67         16.08         14.88           Euconchoecia aculeata         18.72         3.91         6.99         2.76         14.69         13.64           Halocypria globosa         6.99         6.99         7.8         4.8         6.99         2.48           Cambocalanus pauper         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Neccalanus gracilis         10.70         10.70         13.99         60.61         47.27         24.51         83.00         71.90           Paracalanus crusirostris         941.18         43.01         13.99         60.61         47.27         24.51         83.00         90.91         17.36           Paracalanus scrulus         941.18         43.01         13.99         60.61         47.27         24.51         83.00         90.91         17.34           Paracalanus scrulus         491.38         62.56         215.00         10.10         10.10         10.10         10.40         10.9	18	ARTHROPODA	Penilia avirostris											
Cypridina acuminata         16.04         3.91         19.23         76.7         16.08         14.88           Euconchoecia aculeata         18.72         3.91         13.99         3.06         23.72         14.69         13.64           Halocypria globosa         Canthocalauus guerilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         55.9         7.48           Rocalauus gracilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Acocalauus gracilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Acocalauus gacilis         85.56         5.00         41.96         60.61         47.27         24.51         83.00         90.91         17.36           Paracalauus saculeatuus         85.56         5.60         156.84         121.21         76.36         49.03         31.62         20.98         9.92           Paracalauus saculeatuus         85.56         25.60         215.00         10.10         10.10         10.10         10.10         10.10	19		Podon schmackeri											
Euconchoecia aculeata         18.72         3.91         13.99         3.06         23.72         14.69         13.64           Hallocypria globosa         Conthocalanus pauger         6.99         6.99         14.64         13.64         5.59         2.48           Conthocalanus pauger         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Reccalanus gracilis         10.70         21.39         60.61         47.27         24.51         83.00         90.91         71.36           Paracalanus consinostris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98         9.92           Paracalanus sarulus         62.56         215.00         108.39         97.80         18.18         290.09         12.44         29.75           Paracalanus sarulus         61.08         62.56         215.00         108.39         97.80         18.18         290.09         12.4         29.75           Paracalanus sarulus         7         8         62.56         215.00         108.39         97.80         18.18         290.09         12.4         29.75	20		Cypridina acuminata	16.04	3.91		19.23				27.67	16.08	14.88	3.57
Halocypria globosa         6.99         6.99         5.59         5.59           Canthocalanus pauper         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         2.48           Neocalanus gracilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Acrocalanus gracilis         10.70         3.865         10.00         13.99         60.61         47.27         24.51         83.00         90.91         71.36           Paracalanus culanus culasiris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98         9.92           Paracalanus nanus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         29.75           Paracalanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         29.75           Clausoculanus farrani         20.08         3.50         20.08         3.50         20.98         99.2	21		Euconchoecia aculeata	18.72	3.91		13.99			3.06	23.72	14.69	13.64	1.78
Cantilocalanus gracilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Accoalanus gracilis         4cocalanus gracilis         10.70         13.99         66.61         47.27         24.51         83.00         90.91         71.90           Acrocalanus gracilis         10.70         13.99         60.61         47.27         24.51         83.00         90.91         71.36           Paracalanus causirostris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98         9.92           Paracalanus nanus         941.18         43.01         1367.50         106.84         121.21         76.36         49.03         31.62         20.98         9.92           Paracalanus serulus         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         29.75           Clausoculanus furcaus         7 (ausoculanus furcaus         7 (ausoculanus furcaus         7 (ausoculanus furcaus         6.99         7 (ausoculanus furcaus           Euchacia concinna         8 (ausoculanus furcaus         8 (ausoculanus furcaus         8 (ausocu	22		Halocypria globosa				66.9					5.59		
Neocalanus gracilis         21.39         62.56         5.00         41.96         141.41         21.82         36.77         59.29         97.90         71.90           Acrocalanus gracilis         10.70         10.70         10.00         13.99         60.61         47.27         24.51         83.00         90.91         17.36           Paracalanus cauleatus         85.56         16.00         13.99         60.61         47.27         24.51         83.00         90.91         17.36           Paracalanus cauleatus         85.56         58.65         16.00         13.99         60.61         47.27         24.51         83.00         90.91         17.36           Paracalanus cauleanus cauleanus cauleanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         29.75           Paracalanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         29.75           Clausoculanus farcanis         10.10         10.10         10.10         6.99         6.99           Euchaeta plana         3.50         10.10         10.10         10.10	23		Canthocalunus pauper									6.99	2.48	
Acrocalanus gracilis         10.70         88.65         10.00         13.99         60.61         47.27         24.51         83.00         90.91           Paracalanus aculeatus aculeatus paracalanus ranus         85.56         58.65         10.00         13.99         60.61         47.27         24.51         83.00         90.91           Paracalanus ranus         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98           Paracalanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94           Paracalanus serrulus         Clausoculanus farrani         10.10         10.10         10.10         6.99           Clausoculanus furcaus         250         250         250         250         250         250           Euchaeta concinna         3.50         3.50         250         250         250         250           Euchaeta plana         250         250         250         250         250         250         250	24		Neocalanus gracilis	21.39	62.56	5.00	41.96		21.82	36.77	59. 29	97.90	71.90	106.95
Acrocalanus longicornis         10.70         18.65         10.00         13.99         60.61         47.27         24.51         83.00         90.91           Paracalanus aculeanus aculeanus crassirostris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98           Paracalanus nanus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94           Paracalanus serrulus         Clausoculanus farrani         10.10         10.10         10.10         10.10         6.99           Clausoculanus furcatus         35.0         35.0         10.10         10.10         6.99         6.99           Euchaeta concinna         10.10         35.0         10.10         10.10         6.99         10.10         6.99	25		Acrocalanus gracilis											2.97
Paracalanus aculeatus         85.56         58.65         10.00         13.99         60.61         47.27         24.51         83.00         90.91           Paracalanus crassivostris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98           Paracalanus nanus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94           Paracalanus parvus         491.98         62.56         215.00         10.10         10.10         10.10         6.99           Clausoculanus farranis         Clausoculanus furcatus         350         10.10         10.10         6.99           Euchaeta concinna         350         350         10.10 <th< td=""><td>26</td><td></td><td>Acrocalanus longicornis</td><td>10.70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	26		Acrocalanus longicornis	10.70										
Paracalanus crassirostris         941.18         43.01         1367.50         160.84         121.21         76.36         49.03         31.62         20.98           Paracalanus nanus         Paracalanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         2           Paracalanus serrulus         Paracalanus farrani         10.10         10.10         10.10         6.99           Clausoculanus furcatus         200.00         126.48         55.94         2           Euchaeta concinna         3.50         23.50         2         2	27		Paracalanus aculeatus	85.56	58.65	10.00	13.99	19.09	47.27	24.51	83.00	90.91	17.36	
Paracalanus nanus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94         2           Paracalanus serrulus         Paracalanus serrulus         10.10         10.10         6.99           Clausoculanus farrani         10.10         10.10         6.99           Euchaeta concinna         3.50         3.50         6.99           Euchaeta plana         3.50         8         6.99	28		Paraculanus crassirostris	941.18	43.01	1367.50	160.84	121.21	76.36	49.03	31.62	20.98	9.92	
Paracalanus parvus         491.98         62.56         215.00         108.39         979.80         18.18         290.09         126.48         55.94           Paracalanus serrulus         Clausoculanus furcatus         10.10         10.10         6.99           Clausoculanus furcatus         3.50         10.10         6.99           Euchaeta concinna         3.50         3.50         6.99	53		Paracalanus nanus										1.24	
Paracalanus servulus10.10Clausoculanus farrani10.10Clausoculanus furcatus3.50Euchaeta concinna3.50	30		Paraculanus parvus	491.98	62.56	215.00	108.39	979.80	18.18	290.09	126.48	55.94	29.75	
Clausoculanus furcatus10.10Clausoculanus furcatus3.50Euchaeta concinna3.50	31		Paracalunus serrulus					10.10				66'9		
Clausoculanus furcatus  Euchaeta concinna  Euchaeta plana	32		Clausoculanus farrani					10.10						
Euchaeta concinna Euchaeta plana	33		Clausoculanus furcatus									6.99		
	34		Euchaeta concinna				3.50							
	35		Euchaeta plana											

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season—6

No.   Species pame   Sin No.   Fig.		radic Species and individuals	חוותואותות		Tallbron II			, with 1	or coopialiston in Feart Niver Estuary antermediate season			Unit :	Unit: ind/m³.
Transcriptories to the control of	No.		P11	P12	P14	P15	P16	P17	P18	P19	P20	P21	P22
Transon aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment and the control aurithonia attachment attachmen	36 ARTHROPODA	Temora discaudata					20. 20				13.99		8.91
Controlace transfering tensification         32.09         15.64         90.51         7.27         8.17         9.17 <td>37</td> <td>Temora turbinata</td> <td></td> <td></td> <td></td> <td></td> <td>10.10</td> <td></td> <td>4.09</td> <td></td> <td></td> <td></td> <td>11.88</td>	37	Temora turbinata					10.10		4.09				11.88
Schmackeria lacyidacylus         7.50         20.20         34.07         24.07           Schmackeria lacyidacylus         1.50         20.20         20.20         24.07         24.07           Schmackeria popiesia         21.39         110.50         45.45         45.48         49.48         22.31           Puntilipasis regalis         21.39         110.50         45.45         66.61         105.45         49.48         22.31           Acaritie spinicadus         149.73         35.19         130.00         227.27         60.61         10.82         85.60         17.36         20.71         77.36           Chibona strainful sucris         10.70         7.82         12.50         87.4         181.82         101.82         85.80         339.92         17.36         77.4         77.36         77.4         77.36         77.4	38	Canthocalanus tenuiremis	32.09	15.64			50.51	7.27	8.17				
Schmackeria inopinus         7,50         20,20         34,97         34,97           Lichidaccera Epiqueia         10,10         20,20         10,10         24,97         34,97           Functiologysis regalis         21,99         117,50         45,45         60,61         10,545         43,48         22,31           Acarria enylacianda         14,973         35,19         180,00         227,27         60,61         10,545         43,48         22,31           Acarria enylaciandans         14,973         35,19         180,00         227,27         60,61         10,545         43,48         22,31           Tortuma spinicandans         11,07         1,22         81,41         181,82         10,182         85,80         33,92         17,38           Othiona Errolicaria         21,13         1,22         81,250         81,41         181,82         10,182         85,80         117,46         7           Othiona Errolicaria         21,23         1,28         1,2,50         81,41         181,82         10,18         33,92         11,38         10,14           Othiona Errolicar         21,13         1,28         1,28         1,28         10,49         40,40         10,31         40,40         10,41<	39	Schmackeria laeyidactylus											
Includence beginners   7.50   10.00	40	Schmackeria inopinus											
Panelitypies regains         10.10         10.10         10.10           Panelitypies regains         21.39         117.50         45.45         10.54         4.348         22.3.1           Actorital sinensis         1.97.33         35.19         150.00         227.27         60.61         105.45         4.3.48         22.3.1           Actorital sinensis         1.07.00         22.12.7         60.61         105.45         4.3.48         22.3.1           Toritans spliticaudius         1.07.0         7.82         1.2.50         87.41         181.82         101.82         85.80         139.86         2.0.74         7.25           Othloan decipiars         1.07.0         7.82         1.2.50         87.41         181.82         101.82         85.80         139.86         2.0.74         7.25           Othloan decipiars         2.1.39         7.82         2.0.77         2.92.39         178.18         2.2.15         2.0.74         7.25           Othloan decipiars         2.1.39         7.82         2.0.77         2.92.39         178.18         2.2.16         2.0.44         4.0.40         2.0.44         4.0.40         2.0.44         4.0.40         2.0.44         4.0.40         2.0.44         4.0.40         2.0.44	41	Schmackeria poplesia			7.50		20.20				34.97		
Paracellapsis regelis   11750   45,45   110545	42	Labidocera bipinuata					10.10				•		
Acortiae erythraea         2139         11750         4545         9         40.74         2139         11750         4545         40.74         2130         22127         60.61         10545         43.48         22.31           Acarriella sprinteandans         Tornans decriptobaus         1.49.73         35.19         15.00         227.27         6.05         3.64         22.31           Tornans decriptorals         1.0.70         7.82         1.2.50         87.41         181.82         101.82         85.80         339.92         17.36         17.36           Othorna printeandans         2.13.90         10.38         12.50         87.41         181.82         101.82         85.80         339.92         17.36         210.74         7           Othorna printeandan         10.38         12.50         87.41         181.82         101.82         85.80         17.37         17.44         1           Othorna printean         21.38         1.28.1         22.50         230.71         22.50         10.49         40.40         10.91         44.00         10.91         22.65         10.44         40.40         10.91         40.05         10.91         10.49         10.91         10.91         10.49         10.91	43	Pantellopsis regalis											
Acartial spinicanda         149/73         35.19         150.00         227.27         60.61         105.45         43.48         22.31           Acartial submiss         Acartial submiss         35.1         15.00         227.27         60.61         3.44         22.34         22.31           Torianus spiricaudatus         10.70         7.82         12.50         87.41         181.82         10.82         85.80         3.95         6.93         17.36           Othiona decipians         213.90         70.38         12.50         87.41         181.82         10.82         85.80         339.82         133.86         210.74           Othiona decipians         213.90         70.38         12.50         87.41         181.82         10.82         85.80         339.82         133.86         210.74           Othiona decipians         312.0         12.51         22.50         230.77         239.33         178.18         25.74         443.07         321.88         17.35           Othiona demics         31.30         32.30         32.30         32.30         32.36         32.50         32.57         32.67         32.56         32.57         32.67         32.56         32.57         32.56         32.57         3	44	Acartia erythraea	21.39		117.50	45.45							
Acanticula suivensis         3,64         3,64         8         3,64         8         9         17         3         9 <th< td=""><td>45</td><td>Acartia spinicanda</td><td>149.73</td><td>35.19</td><td>150.00</td><td>72.727</td><td>19.09</td><td>105.45</td><td></td><td>43.48</td><td></td><td>22.31</td><td></td></th<>	45	Acartia spinicanda	149.73	35.19	150.00	72.727	19.09	105.45		43.48		22.31	
Tortanus spinicaudans         10.70         7.82         87.41         181.82         101.82         85.80         339.92         139.86         210.74         7           Othiona decipiens         Othiona decipiens         213.90         70.38         12.50         87.41         181.82         101.82         85.80         339.92         139.86         210.74         7           Othiona decipiens         213.90         70.38         12.50         87.41         181.82         101.82         85.80         339.92         139.86         210.74         7           Othiona rigida         Othiona rigida         21.39         7.82         230.77         220.39         178.18         257.41         494.07         371.68         441.32         27.57           Othiona similes         21.39         7.82         30.74         40.40         10.91         494.07         371.68         441.32         27.57           Othiona similes         21.39         7.27         22.50         30.30         7.27         371.68         41.96         7.44         1           Othicae conflera         21.20         22.50         30.30         7.27         41.96         7.44         1           Oncae media         41.20	46	Acartiella sinensis						3.64					
Otherma spinicaudatus         10.10         1.82         11.50         87.41         181.82         101.82         85.80         339.92         17.36         77.36           Otherma ateriatus         213.90         70.38         12.50         87.41         181.82         101.82         85.80         339.92         17.36         77.74         7           Otherma decipians         213.90         70.38         12.50         87.41         181.82         101.82         85.80         339.92         139.86         210.74         7           Otherma similis         21.39         7.82         230.77         292.33         178.18         257.41         494.07         371.68         441.32         22.75           Otherma similis         3.20.88         1.28         2.30.77         292.33         178.18         257.41         494.07         371.68         441.32         22.75           Otherma similis         42.78         2.30.77         2.92.33         17.87         40.40         10.91         40.40         10.91         40.40         10.91         40.40         10.91         40.40         10.91         40.40         10.91         40.40         10.91         40.40         40.40         40.40         40.40	47	Tortanus dextrilobatus											
Othona previcentis         10.70         7.82         87.41         181.82         10.82         85.80         339.92         17.36         71.36           Othona previcentis         213.90         70.38         12.50         87.41         181.82         10.82         85.80         339.92         139.86         210.74         7           Othona pullux         0thona rigida         21.39         7.82         22.50         230.77         222.93         178.18         257.41         494.07         29.75           Othona pullux         21.39         7.82         230.77         222.93         178.18         257.41         494.07         29.75           Othona pullux         21.39         7.82         230.77         22.93         17.87         27.67         41.32         29.75           Othona pullux         42.78         7.82         10.49         40.40         10.91         44.94         74.41         10.91         74.4         11.20           Othona pullux         42.78         7.82         10.49         40.40         10.91         4.09         3.95         41.96         7.44         1           Othoracea conifera         21.82         21.82         20.81         80.81         10.91 <td>48</td> <td>Tortanus spinicaudatus</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	48	Tortanus spinicaudatus					-						
Otthona brevicornis         213.90         70.38         12.50         87.41         181.82         101.62         65.80         339.92         139.86         210.74         7           Otthona decipians         Otthona decipians         0.00         6.99         8.9         8.9         8.8         101.60         8.9         8.9         8.9         8.9         1.0         8.9         1.0         8.9         8.9         1.0         8.9         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         8.0         1.0         1.0         9.0         1.0         9.0         1.0         9.0         1.0         9.0         1.0         9.0         1.0         9.0         1.0         9.0         9.0         1.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0 <td< td=""><td>49</td><td>Oithona attenutus</td><td>10.70</td><td>7.82</td><td></td><td></td><td></td><td></td><td></td><td></td><td>66.9</td><td>17.36</td><td></td></td<>	49	Oithona attenutus	10.70	7.82							66.9	17.36	
Olithona decipians         6.39         8         8         8         8         8         8         9	50	Oithona brevicornis	213.90	70.38	12.50		181.82	101.82	85.80	339.92	39	210.74	71.30
Oithona fallax         6.99         6.99         29.75           Oithona standa         10.49         6.99         27.67         29.75           Oithona stiglida         125.12         22.50         230.77         292.93         178.18         27.67         21.67         29.75           Oithona stiglida         21.39         7.82         10.49         40.40         10.91         27.71         494.07         321.68         441.32         22           Oithona stiglida         21.39         7.82         10.49         40.40         10.91         27.71         494.07         321.68         441.32         22           Oithona stiglida         42.78         2.8         10.49         40.40         10.91         40.40         3.95         41.32         22           Oithona stiglida         42.78         2.8         30.30         30.30         3.95         41.96         7.44         1           Oncaea miditerranea         6.99         80.61         10.91         4.09         3.95         41.96         7.44         1           Oncaea miditerranea         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         30.76 <th< td=""><td>51</td><td>Oithona decipians</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	51	Oithona decipians											
Otthona nana         6. 39         6. 39         27. 67         29. 75         75 <th< td=""><td>52</td><td>Oithona fallax</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	52	Oithona fallax											
Oithona similis         320.86         125.12         22.50         230.77         292.93         178.18         27.61         494.07         321.68         441.32         22           Oithona simplex         21.39         7.82         10.49         40.40         10.91         49.07         321.68         441.32         22           Oithona simplex         21.33         7.82         10.49         40.40         10.91         49.07         3.95         41.36         441.32         22           Oithona tennis         42.78         7.82         10.49         40.40         10.91         40.91         7.44         1           Oncaee onifera         42.78         30.30         7.27         3.95         41.96         7.44         1           Oncaee media         60.cea minits         6.99         80.81         10.91         4.09         3.95         41.96         7.44         1           Oncaee midierranca         64.17         50.83         5.00         20.98         212.12         18.18         6.99         6.99         7.27           Oncaeu ventis         64.17         50.83         5.00         20.98         212.12         18.18         6.29         94.06         5.20	53	Oithona nana										29.75	
Oithona simplex         21.39         175.12         22.50         230.77         292.93         178.18         257.41         494.07         321.68         441.32         22           Oithona simplex         21.39         7.82         20.07         10.49         40.40         10.91         60.07         41.36         41.32         22.00           Oithona tennis         42.78         7.82         20.04         10.49         40.40         10.91         40.40         10.91         40.40         10.91         41.32         22.0           Oncaea confera         42.78         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         41.37         41.41         41.34	54	Oithona rigida								27.67			
Otithona simplex         21.39         7.82         10.49         40.40         10.91         9           Otithona tennis         42.78         7.82         10.49         40.40         10.91         7.27         9         9           Oncaea conifera         42.78         7.84         7.27         9         41.96         7.44         1           Oncaea media         0ncaea media         50ncaea media         6.99         80.81         10.91         4.09         3.95         41.96         7.44         1           Oncaea media         Oncaea minua         6.99         80.81         10.91         4.09         3.95         41.96         7.44         1           Oncaea sinlis         60ncaea sinlis         6.99         80.81         10.91         4.09         3.95         9.92         1           Oncaea sinlis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         30.76         20.07           Corpcaeus adultis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         30.76         20.77           Corpcaeus dehiti         60ncaeus dultis         62	55	Oithona simlis	320.86	125.12	22. 50	230.77	292. 93	178.18	257.41	494.07	321.68	441.32	225.79
Oithona tennis         42.78         9.77         9.87	56	Oithona simplex	21.39	7.82		10.49	40.40	10.91					
Oncaea conifera         7.27         3.95         41.96         7.44         1           Oncaea dentipes         0ncaea dentipes         80.30         30.30         4.09         3.95         41.96         7.44         1           Oncaea media         0ncaea media         6.39         80.81         10.91         4.09         3.95         20.98         9.92         1           Oncaea minuta         0ncaea minuta         3.50         60.61         4.09         4.09         6.99         9.92         1           Oncaeu venusta         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         5.07           Corycaeus endilis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         5.07           Corycaeus end dahli         Corycaeus giesbrechti         60.81         10.91         12.26         23.72         13.99         13.99           Corycaeus longicaudis         53.48         62.56         22.45         151.52         40.86         169.96         195.80         74.38	57	Oithona tennis	42.78										
Oncaea media         30.30         3.95         41.96         7.44         1           Oncaea media         Oncaea media         6.99         80.81         10.91         4.09         3.95         20.98         7.44         1           Oncaea minuta         Oncaea minuta         3.50         20.98         80.81         10.91         4.09         3.95         20.98         9.92         1           Oncaea minuta         Oncaea minuta         64.17         50.83         5.00         20.98         212.12         4.09         3.95         6.99         7.27           Corycaeus simitis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus adhlii         Corycaeus giesbrechti         7.27         10.91         12.26         23.72         13.99         7.27           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	28	Oncaea conifera						7.27					
Oncaea media         6.99         80.81         10.91         4.09         3.95         20.98         9.92         1           Oncaea minuta         Oncaea simits         6.99         80.81         10.91         4.09         3.95         20.98         9.92         1           Oncaea venusta         Oncaeu venusta         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus adulii         Corycaeus giesbrechti         7.27         13.99         7.27         13.99           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	59	Oncaea dentipes					30.30			3.95	41.96	7.44	14.85
Oncaea minuta         6.99         80.81         10.91         4.09         3.95         20.98         9.92         1           Oncaea minuta         Oncaea minuta         3.50         3.50         20.61         —         4.09         3.95         0.09         9.92         1           Oncaea simlis         0.00 caea simlis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus giesbrechti         1         7.27         10.91         13.99         13.99         15.29         17.27         17.27         17.27         17.27         17.27         17.27         17.27         17.27         17.27         17.28         17.28         17.28         17.28         17.28         17.28         17.28         17.28         17.28         17.28         17.28         17.28<	09	Oncaea media					30.30				٠.		
Oncaea simits         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affiniss         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affiniss         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus erythraeus         7.27         10.91         12.26         23.72         13.99         18           Corycaeus giesbrechti         7.27         7.27         7.27         7.27         18         7.28           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	61	Oncaea mediterranea	-				80.81	10.91	4.09	3.95			14.26
Oncaea venusta         64.17         50.83         5.00         20.98         212.12         18.18         61.29         64.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus adahli         1         10.91         12.26         23.72         13.99         13.99         13.99           Corycaeus giesbrechti         1         1         7.27         1	62	Oncaea minuta					60.61						
Oncaeu venusta         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus adulis         7.27         10.91         12.26         23.72         13.99         13.99           Corycaeus giesbrechti         7.27         7.27         7.27         7.27         13.99         14.38           Corycaeus lubbocki         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	63	Oncaea simlis				3.50			4.09		6.99		20.80
Corycaeus affinis         64.17         50.83         5.00         20.98         212.12         18.18         61.29         94.86         307.69         52.07           Corycaeus dahli         Corycaeus erythraeus         10.91         12.26         23.72         13.99         13.99           Corycaeus erythraeus         50 Corycaeus giesbrechti         7.27         10.91         7.27         13.99         15.20           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	64	Oncaea venusta											
Corycaeus erythraeus         Corycaeus girsbrechti         7.27         15.36         13.99           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	65	Corycaeus affinis	64.17	50.83	5.00	20.98	212.12	18.18	61.29	94.86	307.69	52.07	29.71
Corycaeus giesbrechti         7.27         7.27         7.27         7.28         7.29         7.23	99	Corycaeus dahli						10.91	12.26	23.72	13.99		
Corycaeus giesbrechti         7.27           Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	29	Corycaeus erythraeus											
Corycaeus longicaudis         53.48         62.56         52.45         151.52         40.86         169.96         195.80         74.38	89	Corycaeus giesbrechti						7.27					
Corycaeus lubbocki 53.48 62.56 52.45 151.52 40.86 169.96 195.80 74.38	69	Corycaeus longicaudis											
	70	Corycaeus lubbocki	53.48	62.56		52.45	151.52		40.86	169.96	195.80	74.38	14.85

Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season-7 Table

											Unit :	Unit: ind/m3.
No.	Stn. No. Species name	P11	P12	P14	P15	P16	P17	P18	<b>P</b> 19	P20	P21	P22
71 ARTHROPODA	Corycaeus robustus											
72	Corycaeus rostratus											
73	Corycaeus subtilis	21.39	11.73		31.47	171.72	18.18	89.89	55.34	286.71	12.40	98.04
74	Microsetella norvegica	10.70	11.73		3.50	131.31	3.64	16.34	75.10	48.95	34.71	5.94
75	Microsetella rosea					30.30						
76	Euterpina acutirons	21.39								66.9		
77	Clytemnestra rostrata									66.9		
78	Clytemnestra scutillata								3.95	27.97		2.97
79	Setella gracilis					10.10				66.9		
08	Copepoda larvae	2342.25	1208.21	590.00	1486.01	5737.37	916.36	1188.97	2893.28	3132.87	2221.49	1143.79
8	Eupronoe minuta											1.19
82	Lycaea pulex			:								1.78
83	Euphausia nana											1.19
84	Euphausia pacifica		2.93					7.15		18.88		
85	Euphausia sanzoi											1.78
98	Pseudeuphausia latifrons	16.04	5.87		10.49	8.08	5.45	61.6		10.49	6.20	7.13
87	Pseudeuphausia larvae		2.93		12.24	3.03	60.6	3.06	5.93	12.59	2.48	5.94
88	Exopalaemon sp.											
68	Macrura larvae	40.11	7.82	5.00	13.99	90'9	12.73	12.26	9.88	12.59	89.8	9.51
. 06	Brachyura larvae	18.72	3.91	7.50	66.9	3.03	5.45	3.06	3.95	2.10	3.72	3.57
91 CHAETOGNATHA	Sagitta bedoti		1.96					2.04	1.98			
92	Sagitta enflata	10.70	5.87		3.50	60.6	3.64	8.17	9.88	5.59	11.16	2.38
93	Sagitta nagae	2.67	6.84		1.75	4.04		1.02		0.70	7.44	
94	Sagitta neglecta				-	1.01						
95	Sagitta regularis					1.01						
96	Chaetognata larvac	56.15	6.84		80.42	64.65	21.82	66.39	45.45	65.03	61.98	21.98
97 PROTOCHORDATA	PROTOCHORDATA Oikopleura albicans	77.54	9.78		29.72	32.32	7.27	14.30	23.72	23.08	18.60	16.64
86	Oikopleura fusiformis					30.30				15.38		10.10
66	Oikopleura intermedia	18.72	12.71		20.98	25.25		7.15	17.79	13.29	22.31	13.07
100	Oikopleura longicauda	50.80	15.64		10.49	24.24	60.6		13.83	20.28	9.92	13.67
101	Oikopleura rufescen	80.21	19.55		36.71	36,36	20.00	16.34	37.55	34.27	34.71	24.96
102	Fritillarva formica	18.72	7.82		20.98	12.12					16.12	7.13
103	Althoffia tumida				12.24					12.59		9.51
104	Dolioleta gegenbauri		2.93						!	11.89		15.45
105	Doliolum denticaulatum											2.38
										1		

Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season —8 Table

Unit: ind/m3.

No.	Stn. No. Species name	P11	P12	P14	P15	P16	P17	P18	P19	P20	P21	P22
106 PROTOCHORDATA Brooksia rostrata	A Brooksia rostrata								11.86			
107 VERTEBRATA	Fish egg		3.91		5.24				3.95			1.78
108	Fish larvae		1.96	<del>- 11</del>	1.75							1.19

Unit: ind/m3 .

Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season — 9 Table

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P27	126289.77	34.09	35.98					1.89						7.58		17.05	53.03			17.05	7.58			7.58	3.79		109.85	15.15	3.79	162.88					
P25	208398.06	12.37	11.83					1.08			2.15			0.54		7.53	27.97			12.37	22.59		10.76	80.69	10.76		32.28			118.34			10.76		21.52
P24	11650.51	28.28	18.18											14.14	90'9	90.9	56.57			14.14	12.12	4.04		8.08	16.16		4.04								4.04
P23	487733.54	34.48	36.05								6.27			6.27			43.89			14.11	17.24			122.26	4.70		4.70	9.40		70.53					14.11
Stn. No. Species name	Noctiluca scintillans	Tintinnopsis sp.	Favella sp.	Euphysora bigelowi	Eirene sp.	Malayazzia sp.	Liriope tetraphylla	Aglaura hemistoma	Leptomedusae sp.	Bougainvillia ramosa	Muggiae atlantica	Diphyes chamissonis	Lensia subtiloides	Pleurobrachia globosa	Beroe cucumis	Atlanta sp.	Polychaeta larvae	Penilia avirostris	Podon schmackeri	Cypridina acuminata	Euconchoecia aculeata	Halocypria globosa	Canthocalanus pauper	Neocalanus gracilis	Acrocalanus gracilis	Acrocalanus longicornis	Paracalanus aculeatus	Paracalanus crassirostris	Paracalanus nanus	Paracalanus parvus	Paracalanus serrulus	Clausoculanus farrani	Clausoculanus furcatus	Euchaeta concinna	Euchaeta plana
	DINOPHYTA	2 CILIOPHORA		CNIDARIA										CTENOPHORA		MOLLUSCA	ANNELIDA	ARTHROPODA																	
No.	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	61	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season-10

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P27		3.79	11.36							30.30					30.30					208.33					į	3.79				7.58					
P25		10.76						10.76																						86.07	10.76				32.28
P24			36.36						24.24	113.13	4.04				16.16			24. 24	8.08									48.48	8.08	80.8					20.20
P23		4.70													112.85					164.58			18.81		4. 70	14.11				89.34					65.83
Stn. No. Species name	Temora discaudata	Temora turbinata	Canthocalanus tenuiremis	Schmackeria laeyidactylus	Schmackeria inopinus	Schmackeria poplesia	Labidocera bipinuata	Pantellopsis regalis	Acartia erythraea	Acartia spinicanda	Acartiella sinensis	Tortanus dextrilobatus	Tortanus spinicaudatus	Oithona attenutus	Oithona brevicornis	Oithona decipians	Oithona fallax	Oithona nana	Oithona rigida	Oithona simlis	Oithona simplex	Oithona tennis	Oncaea conifera	Oncaea dentipes	Oncaea media	Oncaea mediterranea	Oncaea minuta	Oncaea simlis	Oncaea venusta	Corycaeus affinis	Corycaeus dahli	Corycaeus erythraeus	Corycaeus giesbrechti	Corycaeus longicaudis	Corycaeus lubbocki
	ARTHROPODA					<b>.</b>										·		المما												no.	r.a.	7	<u>~</u>		
No.	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	15	52	53	54	55	56	57	58	59	09	19	62	63	64	65	99	29	89	69	70

Unit: ind/m3.

Table Species and Individuals of Zooplankton in Pearl River Estuary :Intermediate season-11

									· · ·			r1									<del></del> 1	· · · ·	<del></del>		···	<del></del>		·							
P27				3.79						768.94									22.73	34.09						64.39	34.09	24.62	41.67	39.77	60.61	22.73			
P25						10.76		5.38		2651.96						3.77	6,46		89'6	4.84		3.23				19.37	17.21	14.52	17.21	15.06	29.05		66'9	15.06	15.06
P24	4.04			24.24	16.16	4.04				1486.87						90'9			34.34	18.18		4.04	2.02			80.8	50.51	24.24	40.40	36.36	64.65				
P23				32.92		9.40	14.11			1231.97	4.70	4.70	3.13	6.27	4.70	10.97	9.40		18.81	6.27	4.70	51.72	7.84			45.45	47.02	21.94	39.18	36.05	59.56	20.38	23.51	39.18	4.70
Stn. No.	Corycaeus robustus	Corycaeus rostratus	Corycaeus subtilis	Microsetella norvegica	Microsetella rosea	Euterpina acutirons	Clytemnestra rostrata	Clytemnestra scutillata	Setella gracilis	Copepoda larvae	Eupronoe minuta	Lycaeu pulex	Euphausia nana	Euphausia pacifica	Euphausia sanzoi	Pseudeuphausia latifrons	Pseudeuphausia larvae	Exopalaemon sp.	Macrura larvae	Brachyura larvae	Sagitta bedoti	Sagitta enflata	Sagitta nagae	Sagitta neglecta	Sagitta regularis	Chaetognata larvae	97 PROTOCHORDATA Oikopleura albicans	Oikopleura fusiformis	Oikopleura intermedia	Oikopleura longicauda	Oikopleura rufescen	Fritillarva formica	Althoffia tumida	Dolioleta gegenbauri	Doliolum denticaulatum
	ARTHROPODA																				CHAETOGNATHA						PROTOCHORDATA								
No.	71	72	73	74	75	76	77	78	79	80	$\infty$	82	83	<b>%</b>	85	98	87	88	89	90	16	92	93	94	95	96	97	86	66	100	101	102	103	104	105

		Stn. No.	P23	P24	P25	P27	
No.		Species name	ì	!	}	ì	
106	PROTOCHORDATA Brooksia rostrata	Brooksia rostrata					
107	VERTEBRATA	Fish egg					
108		Fish larvae					

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season-1 Table

Action   Color   Col	P07	g/m <sup>2</sup>																																			
Species trained   Species trained   Sun No.   Polity   Prop.	P(	ind/m <sup>2</sup>																																			
Phylum   Species transfer   Sin, No.   Ptol.	9	g/m <sup>2</sup>		0.20	0.25		0.18		0.10	90'0				,																							
Phylum   Species state	PO	ind/m <sup>2</sup>		2.50	5.00		2.50		2.50	2.50																											
Phylum   Species state   Sin, No.   Poll   Pol   Pol   Pol   Pol   Pol   Pol   Pol   Pol   Indim'   gim'   indim'   i	5	g/m²																										Ī						,			
Species name	PO	ind/m <sup>2</sup>																																			
Phylum Species name Sin. No. ind/m² g/m² ind/m²	4	g/m <sup>2</sup>						0.83																													
Phylum Species natte Stn. No. P011 P02 P03  CNIDARIA Cavernularia obesa Fingularia obesa Fi	PO	ind/m <sup>2</sup>																			-																
Species name	33	g/m <sup>2</sup>																																			
Phylum Species name Stn. No. P01 P02  CNIDARIA Cavernularia obesa ind/m² g/m² ind/m² g/m  Courtiella bedia chinensis  Mancia spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Manica spadiceoides  Massarius (Reticunassa) variciferus  Massarius (Reticunassa) variciferus  Massarius (Zeuxis) hepaticus  Massarius (Zeuxis) siquijorensis  Oliva mustellina  Olivalla plana  Crassiptia pseudoprincipiis  Inquissor flovidus  Tarricula nelliae  Diplomeriza duplican  Tarricula nelliae  Diplomeriza duplican  Tarricula nelliae  Diplomeriza duplican  Tarricula nelliae  Diplomeriza duplican  Tarricula nelliae  Cadalus clavatus  Macona (Psammacoma) candida  Macona (Psammacoma) parenupta  Macona (Psammacoma) parenupta  Macona (Psammacoma) praerupta  Macona (Psammacoma) parenupta	). 	ind/m <sup>2</sup>																													1						
Phylum Species name Stn. No. Poll Covernalaria obesa Wirgularia alba Minolia chinensis Umbonium vestiarium Turritella bacillum Semisulcospira cancellata Semisulcospira cancellata Semisulcospira sp. Atlanta sp. Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Marica spadiceoides Massarius (Particinassa) varticlerus Massarius (Partis) siquijorensis Olivalla plana Olivella plana Crassispira pseudoprinciplis Inquistor flevidula Laphiotoma leucotropis Turricula clavatus Massarius clavatus Massarius clavatus Machilarca consociata Machilaceoni (Psammacoma) parentata Machilarca consociata Macoma (Psammacoma) parentata Macoma (Psammacoma) parentata Macoma (Psammacoma) parentata	22	g/m <sup>2</sup>																																			
Phylum Species name Stn. No. P01  Cavernularia obesa ind/m² [ad/m	P(	ind/m <sup>2</sup>																																			
Species name  Cavernularia obessa  Wirgularia alba  Molta Umbonium vestiarium  Turritella bacillum Semisulcospira cancellata Semisulcospira sp. Alfanta sp. Matica zebra Sinum javanicum Murex trapa Mirella bella Nassarius (Reticunassa) festivus Nassarius (Varicinassa) variciferus Nassarius (Zeuxis) siquijorensis Oliva mustellina Olivella plana Crassispira pseudoprinciplis Inquistor flavidula Crassispira pseudoprinciplis Inquistor flavidula Crassispira pseudoprinciplis Inquistor flavidula Crassispira pelicotronica perspectiva Cadulus clavatus Machila cebricostata Machila ca consociata Machila Cadulus clavatus Macoma (Esammacoma) candida Macoma (Esammacoma) praerupia Tellina sp.	12	g/m <sup>2</sup>																																			
Phylum CNIDARIA MOLLUSCA	P(	ind/m <sup>2</sup>																																			
Phylum CNIDARIA MOLLUSCA	No.															stivus	riciferus	S	57.	tus	ensis			is					sumieri			la			ındida	raerupta	
Phylum CNIDARIA MOLLUSCA	Stn.		sa			rium	m	ıncellata	·a		les					nassa) fe	nassa) va	) dorsatu	) hepatici	) succinci	i) siquijor			loprincipl	a	stropis		icata	ebra) duss	rspectiva		ıla) parvu	stata	ciata	асота) с	асота) р	
Phylum CNIDARIA MOLLUSCA	1/	es name	ılaria obe	ria alba	chinensis	um vestia	la bacillu	cospira co	cospira s	sp.	padiceoia	ebra	vanicum	rapa	bella	us (Reticu	us (Varici	us (Zeuxis	us (Zeuxis	us (Zeuxis	us (Zeuxis	ustellina	plana	oira pseud	r flavidul	ота Іеисс	a nelliae	riza dupl	(Noditere	tonica pe	clavatus	(Leionucu	ı crebrico	rca consc	i (Psamm	(Psamm	sp.
No. Phylum  1 CNIDARIA  2 3 MOLLUSCA  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\mathbb{L}$	Speci	Caverne	Virgula	Minolia	Umboni	Turritel	Semisul	Semisu	Arlanta	Natica s	Natica z	Sinum ja	Murex t	Mitrella	Nassari	Nassari	Nassari	Nassari	Nassarii	Nassari	Oliva m	Olivella	Crassis	[Inquisto	Lophiot	Turricui	Diplome	Terebra	Architec	Cadulus	Nucula	Anadara	Mabella	Масот	Масот	Tellina sp.
No. Phylum 1 CNIDARIA 2 3 MOLLUSC 4 4 5 6 6 6 7 7 11 11 11 11 11 11 11 11 11 11 11 11 11					Ą																																
No. 1		ıylum	VIDARIA		OLLUSC.																																
		No. Ph	1 C	2	3 M.	4	2	9	7	∞	6	10	=	12	13	14	15	16	17	18	19	20	21	22	23	24	25	58	27	28	29	30	31	32	33	34	35

Table Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—2

_		Stn. No.		P01	P02	12	P03	3	P04		P05	5	P06	9	P07	7
No. Phylum		Species name	ind/m <sup>2</sup>	2 g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m²	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m²	ind/m²	g/m²	ind/m <sup>2</sup>	g/m²
36 MOLLUSCA	CA	Solen dunkerianus			-			$\dashv$								
37		Cultellus attenuatus										1				
38		Siliqua minima										i				
39		Corbicula fluminea							2.50	0.28						
40		Paphia (Paratapes) undulata								_						
41		Dosinia(Phacosoma) japonica														
42		Clausinella calophylla														
43		Potamocorbula laevis			4305.00	205.00	12.50	1.08					45.00	2.40	5.00	0.10
44		Cuspidaria chinensis														
45 ANNELIDA	)A	Tylonereis bogoyawleskyi	5.00	0.28												
46		Glycera alba														
47		Aglaophamus lyrochaeto							5.00	0.43						
48		Diopatra variabilis														
49		Marphysa belli														
20		Lumbrineris heteropoda														
51		Schistomeringos incertai														
25		Paraprionospio pinnata								_				ļ		
53		Magelona crenulifrons														
54		Sternaspis scutata								-						
55		Capitella capitata														
99		Heteromastus filiformis							2.50	0.08	2.50	0.13	7.50	0.30	2.50	0.08
27		Owenia fusiformis														
58		Terebellides stroemii														
29		Branchiomma cingulata														
09		Limnodriloides sp.		_							2.50	0.13				
61 ECHIURA	4	Listriolobus brevirostris													2.50	0.38
62 SIPUNCULA	A	Phascolosoma sp.														
63 ARTHROPODA	PODA	Balanus reticulatus	10.00	0 1.88											5.00	0.13
64		Eocuma sp.														
6.5		Ampelisca sp.			2.50	0.68										
99		Byblis japonicus														
29		Leptochela gracilis														
89		Raphidopus ciliatus														
69		Charybdis variegata	-	_							2.50	0.68				
102		Hexapus granuliferus	-													

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—3 Table

		Stn. No.	PO	)1	P02		P03		P04	-	P05		P06		P07	7
No.	No. Phylum	Species name	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m²	g/m² in	ind/m² g	g/m² i	ind/m <sup>2</sup>	g/m²
7	71 ARTHROPODA	Eucrate costata											_			
72		Scalopidia spinosipes									-	•				
73		Typhlocarcinus nudud									1					
7.4		Typhlocarcinus villosus											$\dashv$			
7.5		Xenophthalmodes moebii														
92		Neoxenophthalmus obscurus														
7.7		Varuna litterata									-	_	_		7.50	4.55
7.8		Phalangipus longipes										_		_		
7.9	79 ECHINODERMATA Amphioplus laevis	Amphioplus laevis														
80		Amphiopus depressus														
81		Ophiocnemis marmorata										ļ				
82		Cladolabes crassus												_		
83		Acaudina molpadioides										-	_			
84		Protankyra bidentata												1		
85	85 VERTEBRATA	Anguilla japonica														
86		Oxyurichthys tentacularis											-			
87		Cynoglossus puncticeps							-					$\dashv$		

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season-4 Table

		Stn. No.	P08	8	P09	6	P10	0	P111		P12	2	P14	4	P15	5
No. P	No. Phylum	Species name	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m²	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m²
1 C	CNIDARIA	Cavernularia obesa	5.00	0.73	5.00	$\overline{}$										
2		Virgularia alba														
8	3 MOLLUSCA	Minolia chinensis			2.50	01.0					7.50	1.15				
4		Umbonium vestiarium														
5		Turritella bacillum							7.50	0.73						
9		Semisulcospira cancellata														
2		Semisulcospira sp.														
80		Atlanta sp.														
თ		Natica spadiceoides														
10		Natica zebra							•							
Ξ		Sinum javanicum														
12		Murex trapa														
13		Mitrella bella													5.00	0.25
14		Nassarius (Reticunassa) festivus		-												
12		Nassarius (Varicinassa) variciferus														
16		Nassarius (Zeuxis) dorsatus														
17		Nassarius (Zeuxis) hepaticus														
18		Nussarius (Zeuxis) succinctus	10.00	1.45					35.00	5.33	5.00	0.30			17.50	3.70
1.9		Nassarius (Zeuxis) siquijorensis							12.50	0.58	5.00	0.18			5.00	0.20
20		Oliva mustellina									7.50	0.33				
21		Olivella plana							2.50	0.10						
22		Crassispira pseudoprinciplis														
23		Inquistor flavidula														
24		Lophiotoma leucotropis														
25		Turricula nelliae														
26		Diplomeriza duplicata														
27		Terebra (Noditerebra) dussumieri														
28		Architectonica perspectiva														
29		Cadulus clavatus									2.50	0.15				
30		Nucula (Leionucula) parvula									2.50	0.20			2.50	0.20
31		Anadara crebricostata												_		
32		Mabellarca consociata									2.50	0.13				
33		Macoma (Psummucoma) candida														
34		Macoma (Psammacoma) praerupta														
35		Tellina sp.														

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—5 Table

	Stn. No.	Ā	P08	P09	6	P10		P11	1	P12	2	P14	4	P15	2
No. Phylum	Species name	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m²	g/m <sup>2</sup>
36 MOLLUSCA	Solen dunkerianus				+ +				1						
37	Cultellus attenuatus					2.50	1.93								Ĭ
38	Siliqua minima									1					
39	Corbicula fluminea														
40	Puphia (Paratapes) undulata					-				5.00	6.20				
41	Dosinia (Phacosoma) japonica														
42	Clausinella calophylla														
43	Potamocorbula laevis	8810.00	2447.50	10.00	2.20	25,00	3.95	3050.00	545.00	185.00	25.63	420.00	16.80	52.50	5.85
44	Cuspidaria chinensis								-	}					
45 ANNELIDA	Tylonereis bogoyawleskyi	12.50	2.08	·		2.50	0.58								
46	Glycera alba					7.50	1.13			<del></del>				2.50	0.20
47	Aglaophamus lyrochaeto									10.00	0.30				
48	Diopatra variabilis													2.50	0.38
49	Marphysa belli													2.50	0.30
20	Lumbrineris heteropoda									2.50	0.10				
51	Schistomeringos incertai					2.50	0.28								
52	Paraprionospio pinnata			7.50	0.35					5.00	0.15				
53	Magelona crenulifrons												-		
54	Sternaspis scutata														
55	Capitella capitata							2.50	0.35						
99	Heteromastus filiformis	2.50	0.15											2.50	0.23
25	Owenia fusiformis													2.50	0.10
58	Terebellides stroemii														
59	Branchiomma cingulata					10.00	0.33								
09	Limnodriloides sp.														
61 ECHIURA	Listriolobus brevirostris							•							
62 SIPUNCULA	Phascolosoma sp.													-	
63 ARTHROPODA	Balanus reticulatus	17.50	4.33					12.50	1.63					15.00	1.83
64	Еосита sp.					2.50	0.05								
9	Ampelisca sp.														
99	Byblis japonicus					15.00	0.33								
29	Leptochela gracilis														
89	Raphidopus ciliatus														
69	Charybdis variegata														
7.0	Hexapus granuliferus									2.50	0.58				

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—6 Table

П				$\neg$	- 1	Т		1	П	2	T	$\neg$		وا				
P15	g/m²									0.13				150.60			_	
d	ind/m²									2.50				5.00				
4	g/m <sup>2</sup>																	
P14	ind/m <sup>2</sup>		ŀ								Î							
2	g/m²									0.43					8.20			
P12	ind/m²								ŀ	5.00					10.00			
	g/m²									0.25					1.08			
P111	ind/m <sup>2</sup>									2.50					2.50			
0	g/m <sup>2</sup>						14.65											
P10	ind/m <sup>2</sup>						15.00											
6	g/m <sup>2</sup>				0.58		4.85									0.65		22.20
P09	ind/m <sup>2</sup>	2.50			2.50		7.50									2.50		2.50
8	g/m <sup>2</sup>																	
P08	ind/m <sup>2</sup>																	
Stn. No.			Si	pr	sns	oebii	obscurus		sz		SI	orata		ides	p,		ularis	sdəs
	Species name	Eucrate costata	Scalopidia spinosipes	Typhlocarcinus nudud	Typhlocarcinus villosus	Xenophthalmodes moebii	Neoxenophthalmus obscurus	Varuna litterata	Phalangipus longipes	4mphioplus laevis	Amphiopus depressus	Ophiocnemis marmorata	Cladolabes crassus	Acaudina molpadioides	Protankyra bidentata	Anguilla japonica	Oxyurichthys tentacularis	Cynoglossus puncticeps
	No. Phylum	71 ARTHROPODA E	ſχ	I	I	<u>1 *                                   </u>	<u>  &lt;</u>	<u> </u>	<u>F</u>	79 ECHINODERMATA Amphioplus laevis	1 <u>4</u>	9		1 3	1 ***	85 VERTEBRATA		
	No.	Ė	7.2	73	74	7.5	92	7.7	7.8	197	80	2	82	83	84	85	98	8.7

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—7 Table

	S P S	P16	9	P17		P18	~	P19		P20	0	P21	11	P22	51
No. Phylum	Species name	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²
1 CNIDARIA	Cavernularia obesa														}
2	Virgularia alba														
3 MOLLUSCA	Minolia chinensis											2.50	0.08		
	Umbonium vestiarium	2.50	0.10												
22	Turritella bacillum	10.00	8.40					5.00	4.43			5.00	7.88		
9	Semisulcospira cancellata														
7	Semisulcospira sp.														
	Atlanta sp.														
6	Natica spadiceoides									2.50	3.15				
2	Natica zebra														
Ξ	Sinum javanicum											2.50	18.75		
12	Murex trapa									5.00	3.60				
-13	Mitrella bella													2.50	0.08
14	Nassarius (Reticunassa) festivus									7.50	0.35				
15	Nassarius (Varicinassa) variciferus									2.50	0.63				
16	Nassarius (Zeuxis) dorsatus	2.50	0.40												
17	Nassarius (Zeuxis) hepaticus									2.50	09.0				
18	Nassarius (Zeuxis) succinctus	30.00	4.20			7.50	0.55	25.00	3.83	12.50	1.30	22.50	2.95	5.00	0.58
19	Nassarius (Zeuxis) siquijorensis	7.50	0.53			20.00	0.88	7.50	0.45	32.50	2.13	5.00	0.25	2.50	6.20
20	Oliva mustellina	2.50	0.13					2.50	0.15			2.50	0.05		
21	Olivella plana	ļ 						2.50	0.13			5.00	0.10		
22	Crassispira pseudoprinciplis														
23	Inquistor flavidula									2.50	0.75	2.50	2.23		
24	Lophiotoma leucotropis														
- 25	Turricula nelliae							ı		2.50	0.35	2.50	0.45		
26	Diplomeriza duplicata	5.00	0.25					5.00	0.30			7.50	$\bot$		
27	Terebra (Noditerebra) dussumieri											2.50			
28	Architectonica perspectiva											7.50	_		
53	Cadulus clavatus										ļ	2.50	_		
30	Nucula (Leionucula) parvula					2.50	0.20	127.50	6.23	5.00	0.55	130.00	7.85		
31	Anadara crebricostata					Î			i						
32	Mabellarca consociata							2.50	0.28			2.50	0.30	2.00	0.83
33	Macoma (Psammacoma) candida										:				
34	Macoma (Psammacoma) praerupta								ļ						
35	Tellina sp.														

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—8

Table

		- N O	10	7	D17	1	D18	α	p10	0	P20		P21		P22	2
;	,	Stfr. Ivo.	,		7 7 7	7	2	7	. 1, 2	, 2	:-1/-2	2,122	2 / / 2	2/202	2 m/ Pui	0./20
ġ.	No. Phylum	Species name	_m/pur	g/m_	m/pui	m/g	m/m	g/m	ma/m	EVIII	ma/mi	B/III	III/IIII	111/2	III / IIII	E/III
36	36 MOLLUSCA	Solen dunkerianus				+										
37		Cultellus attenuatus											1	100		
38		Siliqua minima			2.50	1.65	1						2.00	0.68		
39		Corbicula fluminea														
40		Puphia (Parutapes) undulata					2.50	2.10	2.50	6.28					15.00	112.33
4	•	Dosinia (Phacosoma) japonica										ļ	2.50	0.85		
42	Ī.	Clausinella calophylla														
43	Г	Potamocorbula laevis	7.50	0.40	15.00	1.20	32.50	2.68	2560.00	160.00	2.50	0.10			195.00	20.40
44	T ==	Cuspidaria chinensis											2.50	0.18		
45	45 ANNELIDA	Tylonereis bogoyawleskyi			2.50	0.70										
46	T-a	Glycera alba	7.50	1.18												
47	T	Aglaophamus lyrochaeto					15.00	2.30	2.50	0.35						
48	I	Diopatra variabilis														ľ
49	TÆ.	Marphysa belli														
50	ı	Lumbrineris heteropoda	7.50	0.70			5.00	0.93	:							
51	T	Schistomeringos incertai														
52	نما	Paraprionospio pinnata	12.50	0.43			2.50	0.28							7.50	0.88
53	[m	Magelona crenulifrons													5.00	0.43
54	Τ₩	Sternaspis scutata							2.50	0.68						
55	21	Capitella capitata														
26	عا	Heteromastus filiformis														
57		Owenia fusiformis														
28	T 600	Terebellides stroemii													7.50	2.40
59	6	Branchiomma cingulata														
9	0	Limnodriloides sp.												:		
19	1 ECHIURA	Listriolobus brevirostris														
و	62 SIPUNCULA	Phascolosoma sp.									2.50	0.28				
ف	63 ARTHROPODA	Balanus reticulatus					2.50	0.38	37.50	5.48						
64	<b>কি</b>	Еосита sp.				i					į					
65	2	Ampelisca sp.														
99	9	Byblis japonicus														
29	7	Leptochela gracilis						i							5.00	0.28
99	<b>ω</b>	Raphidopus ciliatus														
69	6	Charybdis variegata														
_	7.0	Hexapus granuliferus			5.00	0.70	2.50	0.18	10.00	2.15			5.00	0.58		
l						ł										

Species, individuals and wet weight of Benthos in Pearl River Estuary:Intermediate season—9 Table

	S. P.S.	P1	16	P17	7	P18	8	P19		P20		P21		P22	2
No. Phylum	Species name	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m²
71 ARTHROPODA	Eucrate costata														
72	Scalopidia spinosipes	2.50	86.0												
73	Typhlocarcinus nudud													2.50	10.00
74	Typhlocarcinus villosus					-				2.50	0.20				
75	Xenophthalmodes moebii													12.50	2.58
76	Neoxenophthalmus obscurus	10.00	2.13			5.00	1.65			40.00	6.83			17.50	3.30
77	Varuna litterata		-												
78	Phalangipus longipes	2.50	1.78												
79 ECHINODERMATA Amphioplus laevis	Amphioplus laevis			7.50	06.0	7.50	1.10	2.50	0.25	10.00	0.15			22.50	3.58
80	Amphiopus depressus	7.50	89.0												
81	Ophiocnemis marmorata													2.50	0.08
82	Cladolabes crassus	2.50	0.73												
83	Acaudina molpadioides														
84	Protankyra bidentata	10.00	13.20	10.00	12.85	10.00	33.55	10.00	21.63	10.00	18.30				
85 VERTEBRATA	Anguilla japonica						ì								
98	Oxyurichthys tentacularis													2.50	3.65
87	Cynoglossus puncticeps														

Species, individuals and wet weight of Benthos in Pearl River Estuary: Intermediate season — 10 Table

		SZ USS	P23	13	P24	4	74 P.	P25	Ъ.	P27
Ž.	Phylum	Species name	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m²	ind/m <sup>2</sup>	g/m <sup>2</sup>	ind/m <sup>2</sup>	g/m <sup>2</sup>
-	CNIDARIA	Cavernularia obesa								
2		Virgularia alba								
3	MOLLUSCA	Minolia chinensis	5.00	0.55			5.00	0.55	15.00	1.68
4		Umbonium vestiarium								
2		Turritella bacillum		·	5.00	0.35	2.50	0.23	15.00	5.40
و		Semisulcospira cancellata								
~		Semisulcospira sp.								
æ		Atlanta sp.								
9		Natica spadiceoides								
10		Natica zebra					2.50	0.23		
1		Sinum javanicum							2.50	18.58
12		Murex trapa	5.00	10.15						
13		Mitrella bella	2.50	0.08						
14		Nassarius (Reticunassa) festivus								
15		Nassarius (Varicinassa) variciferus							2.50	0.80
16		Nassarius (Zeuxis) dorsatus								
1		Nassarius (Zeuxis) hepaticus	2.50	3.30			2.50	0.68		
18		Nussarius (Zeuxis) succinctus	22.50	3.48	2.50	0.93			20.00	4.10
19		Nassarius (Zeuxis) siquijorensis	2.50	0.15			5.00	0.93	2.50	0.20
20		Oliva mustellina							2.50	0.13
21		Olivella plana								
22		Crassispira pseudoprinciplis					2.50	5.33		
23		Inquistor flavidula								
24		Lophiotoma leucotropis	2.50	2.38					2.50	1.13
25		Turricula nelliae	22.50	11.33			2.50	0.35		
26		Diplomeriza duplicata								
27		Terebra (Noditerebra) dussumieri								
28		Architectonica perspectiva								
29		Cadulus clavatus								
30		Nucula (Leionucula) parvula								
31		Anadara crebricostata			5.00	65.73	2.50	0.28		
32		Mabellarca consociata					2.50	22.33		
33		Macoma (Psammacoma) candida			2.50	1.55				
34		Macoma (Psammacoma) praerupta	5.00	11.45						
35		Tellina sp.					5.00	12.75		

Species, individuals and wet weight of Benthos in Pearl River Estuary: Intermediate season-11 Table

	77	_	Т			$\neg$							1.33			_		$\neg$				_		0.35		Ţ	4.60		_							
P27	g/m²		ļ										1											0			4									
P.	ind/m²												12.50											2.50			2.50									
.5	g/m²					2.93		19.88								-												0.38								0.65
P25	ind/m <sup>2</sup>		į			5.00		5.00																			:	2.50								2.50
4	g/m <sup>2</sup>			2.08							0.93	1.03		0.65				1.08				0.08		5.30			6.93							0.58		
P24	ind/m <sup>2</sup>			2.50							5.00	10.00		12.50				42.50				2.50		32.50			5.00							2.50		
3	g/m <sup>2</sup>					3.33																				3.65		4.38					0.15			0.23
P23	ind/m <sup>2</sup>	5.00				2.50																				5.00		12.50					2.50			2.50
Stn. No.	Species name	Solen dunkerianus	Cultellus attenuatus	Siliqua minima	Corbicula fluminea	Paphia (Paratapes) undulata	Dosinia(Phacosoma) japonica	Clausinella calophylla	Potamocorbula laevis	Cuspidaria chinensis	Tylonereis bogoyawleskyi	Glycera alba	Aglaophamus lyrochaeto	Diopatra variabilis	Marphysa belli	Lumbrineris heteropoda	Schistomeringos incertai	Paraprionospio pinnata	Magelona crenulifrons	Sternaspis scutata	Capirella capitata	Heteromastus filiformis	Owenia fusiformis	Terebellides stroemii	Branchiomma cingulata	Limnodriloides sp.	Listriolobus brevirostris	Phascolosoma sp.	Balanus reticulatus	Eocuma sp.	Ampelisca sp.	Byblis japonicus	Leptochela gracilis	Raphidopus ciliatus	Charybdis variegata	Hexapus granuliferus
	Phylum	MOLLUSCA									ANNELIDA													<b>_</b>			ECHIURA	SIPUNCULA	ARTHROPODA				<u> </u>			
	No.	38	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52	53	54	55	99	57	58	29	09	19	62	63	64	65	99	67	89	69	7.0

Species, individuals and wet weight of Benthos in Pearl River Estuary: Intermediate season—12 Table

Phylum         Species name         ind/m² g/m² g/m² ind/m² 5.00           ARTHROPODA         Eucrate costata         5.00           Scalopidia spinosipes         5.00         1.08           Typhlocarcinus nudud         5.00         1.08           Typhlocarcinus villosus         5.00         1.08           Kenophthalmodes moebii         10.00         1.60         2.50           Varuna litterata         Phalangipus longipes         17.50           Phalangipus longipes         0phiangipus depressus         17.50           Amphiopus depressus         Cladolabes crassus         Cladolabes crassus           Acaudina molpadioides         Protankyra bidentata         Protankyra bidentata           Protankyra bidentata         Anguilla japonica         1	Stn. No. P23		P24	P25	5	P27	7
ARTHROPODA Eucrate costata  Scalopidia spinosipes Typhlocarcinus nudud Typhlocarcinus villosus Xenophthalmodes moebii Neoxenophthalmus obscurus Typuna litterata Phalangipus longipes CHINODERMATA Amphioplus depressus Ophiocnemis marmorata Cladolabes crassus Acaudina molpadioides Protankyra bidentata Protankyra bidentata VERTEBRATA Anguilla japonica	ind/m <sup>2</sup>	/ <b>m²</b>   ind/m	$^{2}$ g/m $^{2}$	ind/m²	g/m <sup>2</sup>	ind/m²	g/m <sup>2</sup>
Scalopidia spinosipes Typhlocarcinus nudud Typhlocarcinus villosus Xenophthalmus obscurus Varuna litterata Phalangipus longipes ECHINODERMATA Amphioplus laevis Amphioplus depressus Ophiocnemis marmorata Cladolabes crassus Acaudina molpadioides Protankyra bidentata VERTEBRATA Anguilla japonica		5.00	3.18				,
Typhlocarcinus nudud Typhlocarcinus villosus Senophthalmodes moebii Neoxenophthalmus obscurus Varuna litterata Phalangipus longipes ECHINODERMATA Amphiopus depressus Ophiocnemis marmorata Cladolabes crassus Acaudina molpadioides Protankyra bidentata VERTEBRATA Anguilla japonica	spinosipes						
Typhlocarcinus villosus       5.00       1.08         Kenophthalmodes moebii       10.00       1.60         Varuna litterata       10.00       1.60         Phalangipus longipes       10.00       1.60         Phalangipus longipes       1.60       1.60         Amphioplus laevis       1.60       1.60         Amphioplus laevis       1.60       1.60         Amphioplus laevis       1.60       1.60         Amphioplus laevis       1.60       1.60         Acaudina molpadioides       1.60       1.60         Protankyra bidentata       1.60       1.60         Protankyra bidentata       1.60       1.60         Amguilla japonica       1.60       1.60	inus nudud			5.00	1.95		
Xenophthalmodes moebii       10.00       1.60         Neoxenophthalmus obscurus       10.00       1.60         Varuna litterata       10.00       1.60         Phalangipus longipes       1         ECHINODERMATA Amphioplus laevis       1         Amphiopus depressus       0         Ophiocnemis marmorata       1         Cladolabes crassus       Acaudina molpadioides         Protankyra bidentata       1         VERTEBRATA       Anguilla japonica		1.08					
Neoxenophthalmus obscurus   10.00   1.60     Varuna litterata   Phalangipus longipes   Phalangipus laevis   10.00     ECHINODERMATA   Amphioplus laevis   10.00   1.60     Amphioplus laevis   10.00   1.60     Amphioplus laevis   10.00   1.60     Amphioplus laevis   10.00   1.60     Amphioplus laevis   10.00   1.60     Amphioplus laevis   10.00   1.60     Action for the following   1.60     Action for the following   1.60     Action for the following   1.60     Auguilla japonica   1.60     Auguilla japon	Imodes moebii						
Varuna litterata         Phalangipus longipes         ECHINODERMATA Amphiopus laevis         Amphiopus depressus         Ophiocnemis marmorata         Cladolabes crassus         Acaudina molpadioides         Protankyra bidentata         VERTEBRATA Anguilla japonica			0.63			2.50	0.63
ECHINODERMATA Amphioplus laevis Amphioplus laevis Amphiopus depressus Ophiocnemis marmorata Cladolabes crassus Acaudina molpadioides Protankyra bidentata VERTEBRATA Anguilla japonica	erata						
ECHINODERMATA Amphioplus laevis  Amphiopus depressus Ophiocnemis marmorata Cladolabes crassus Acaudina molpadioides Protankyra bidentata VERTEBRATA Anguilla japonica	us longipes						
VERTEBRATA	s taevis	17.5	0 2.63	30.00	4.93	7.50	0.45
VERTEBRATA	depressus						
	iis marmorata						
	scrassus						
	nolpadioides						
	ı bidentata						
	ponica						
86 Oxyurichthys tentacularis	sys tentacularis						
S7 Cynoglossus puncticeps	us puncticeps						

Coelenterata

沙箸科 Veretillidae

海仙人掌

Cavernularia obesa Milne Edwards et Hailme

白沙箸科 Virgulariidae

白沙箸

Virgularia alba (Nutting)

Annelida

沙蚕科 Nereidae

疣 沙

Tylonereis bogoyaw 基skyi Fauvel

疣吻沙蚕

Tylorrhynchus heterochaetus (Quatrefages)

吻沙蚕科 Glyceridae

白色吻沙蚕

Glycera alba (Muller)

吻 沙 蚕Nephtyidae

弦毛内籤

Aglaophamus lyrochaeto (Fauvel)

虫 科Orbiniidae

虫

Haploscoloplos elongatus (Johnson)

海稚虫科 Spionidae

后指虫

Laonice cirrata (Sars)

奇 稚

Paraprionospio pinnata (Ehlers)

虫 科Cirratulidae

独毛

Tharyx filibranchia Day

手 沙 蚕Magelonidae

状 手 發

Magelona crenulifrons Gallardo

小 虫 \$\text{Apitellidae}

小 虫

Capitella capitata (Fabriceus)

蚓虫

Heteromastus filiformis (Claparede)

背毛背蚓虫

Notomastues cf. aberans Day

海蛹科 Opheliidae

角海蛹

Ophelia acuminata Oersted

欧努菲虫科 Onuphidae

色沙

Diopatra variabilis Southern

沙 **쬺** Eunicidae

氏 岩

Marphysa belli Audouin et M. Edwards

索沙蚕科 Lumbrineriidae

足索沙

Lumbrineris heteropoda (Marenzeller)

豆 虫 **B**orvilleidae

无 眼 叉 毛豆虫 Schistomeringos incertai (Schmarda)

不倒翁虫科 Sternaspidae

Printer:Xu Zhi Bing, Wei Gui Qiu

Checker:Ou Qiang

4-1

Examiner: Zhong Si Sheng

不倒翁虫 Sternaspis scutata (Renier) 欧文虫科 Oweniidae

欧文虫 Owenia fusformis Delle Chiaje

扇毛虫科 Flabelligeridae

孟加拉海扇虫 Pherusa cf. Bengalensis (Fauvel)

毛 虫 Trichobrachidae

梳 虫 Terebellides stroemii Sars

虫 科Sabellidae

斑 虫 Branchiomma cingulata (Goube)

蚓 科Tubificidae

沼蚓 Limnodriloides sp.

Sipuncula

革 星 科Phascolosomatidae

革 星 虫 Phascolosoma sp.

**Echiura** 

科 Echiuridae

短吻 Listriolobus brevirostris Chen et Yeh

Mollusca

胡桃蛤科 Nuculidae

微型胡桃蛤 Nucula (Leionucula) parvula Gould

蚶科 Arcidae

密 肋 粗 Anadara crebricostata (Reeve) 珠 蚶 Mabellarca consociata (Smith)

蛤 科Tellinidae

蛤 Tellina sp.

美女白 Macoma (Psammacoma) candida (Lamarck) 紫白 Macoma (Psammacoma) praerupta Salisbury

竹 科Solenidae

短 竹 Solen dunkerianus Clessin

刀 科Cultellidae

Cultellus attenuatus Dunker
Siliqua minima (Gmelin)

科 Corbiculidae

河 Corbicula fluminea (Muller)

蛤 科Veneridae

日本 蛤 Dosinia(Phacosoma) japonica (Reeve)

美叶雪蛤 Clausinella calophylla (Philippi) 波 巴 非 Paphia (Paratapes) undulata (Born)

Printer: Xu Zhi Bing, Wei Gui Qiu

Checker:Ou Qiang

Examiner: Zhong Si Sheng

科Corbulidae 蛤 光滑河 蛤 Potamocorbula laevis (Hinds) 杓蛤科 Cuspidariidae 中国杓蛤 Cuspidaria chinensis Griffith et Pidgeon 管 鱼 Siphonodentaliidae 形 Cadulus clavatus Gould 梭 螺 躃 **科**ochidae 玉 中 小 Minolia chinensis Sowerby 肋 螺 Umbonium vestiarium (Linne) 螺 科Turritellidae 螺 Turritella bacillum Kiener 科Architectonicidae 配 景 Architectonica perspectiva (Linne) 黑螺科 Melanidae 短 方 格 Semisulcospira cancellata (Benson) 短 螩 Semisulcospira sp. 明螺科 Atlantidae 明螺 Atlanta sp. 玉螺科 Naticidae 爪哇 Sinum javanicum (Griffith et Pidgeon) 褐 玉 Natica spadiceoides Liu 斑 玉 Natica zebra Lamarck 骨螺科 Muricidae 浅 合 骨 Murex trapa Roding 核螺科 Pyrenidae 核 螺 Mitrella bella (Reeve) 螺 科Nassariidae 螺 肋 Nassarius (Varicinassa) variciferus (A. Adams) 螺 秀 Nassarius (Reticunassa) festivus (Powys) 螺 Nassarius (Zeuxis) succinctus (A. Adams) 光 螺 Nassarius (Zeuxis) dorsatus (Roding) 西 格 Nassarius (Zeuxis) siquijorensis (A. Adams) 螺 Nassarius (Zeuxis) hepaticus (Pulteney) 榧螺科 Olividae 伶鼬榧螺 Oliva mustellina Lamarck 平小榧螺 Olivella plana (Marrat) 塔螺科 Turridae 黄短口螺 Inquistor flavidula (Lamarck)

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Checker:Ou Qiang

假主棒螺

Examiner: Zhong Si Sheng

4-3

Crassispira pseudoprinciplis (Yokoyama)

白 臂 螺 Lophiotoma leucotropis (Adams et Reeve)

假 奈 塔螺 Turricula nelliae (Hedley)

笋螺科 Terebridae

白 笋 Terebra (Noditerebra) dussumieri Kiener

双 笋 Diplomeriza duplicata (Linnaeus)

Arthropoda

藤 科Balanidae

网 藤 Balanus reticulatus Utinomi

虫 科Bodotriidae

古 虫 Eocuma sp.

双 眼 Ampeliscidae

双眼 Ampelisca sp.

日本沙 Byblis japonicus Dahl

玻璃 Psiphaeidae

整 Leptochela gracilis Stimpson

瓷蟹科 Porcellanidae

毛 足 Raphidopus ciliatus Stimpson

蜘蛛蟹科 Majidae

足 蟹 Phalangipus longipes (Linnaeus)

梭子蟹科 Portunidae

☐ Charybdis variegata (Fabricius)

脚 蟹 Goneplacidae

隆 背 Eucrate costata Yang et Sun

毛盲蟹 Typhlocarcinus villosus Stimpson 裸盲蟹 Typhlocarcinus nudud Stimpson 刺足掘沙蟹 Scalopidia spinosipes Stimpson

粒 六 足 Hexapus granuliferus Campbell et Stephenson

莫 氏 短腿 Xenophthalmodes moebii Richters

豆蟹科 Pinnotheridae

模糊新短眼蟹 Neoxenophthalmus obscurus (Henderson)

方蟹科 Grapsidae

字 弓 Varuna litterata (Fabricius)

**Echinodermata** 

沙 子 种hyllophoridae

粗枝柄参 Cladolabes crassus (H. L. Clark)

芋参科 Molpadiidae

海地瓜 Acaudina molpadioides (Semper)

海 参 Synaptidae

棘 刺 Protankyra bidentata (Woodard et Barrett)

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Checker:Ou Qiang

Examiner: Zhong Si Sheng

4-4

遂 足 Amphiuridae

光滑倍棘蛇尾 Amphioplus laevis (Lyman.)

Chordata

科 Anguillidae

日本 Anguilla japonica Tamminca et Schlegel

鰕 虎 稀obiidae

触角 鰕虎 Oxyurichthys tentacularis (Cuvier et Valenciennes)

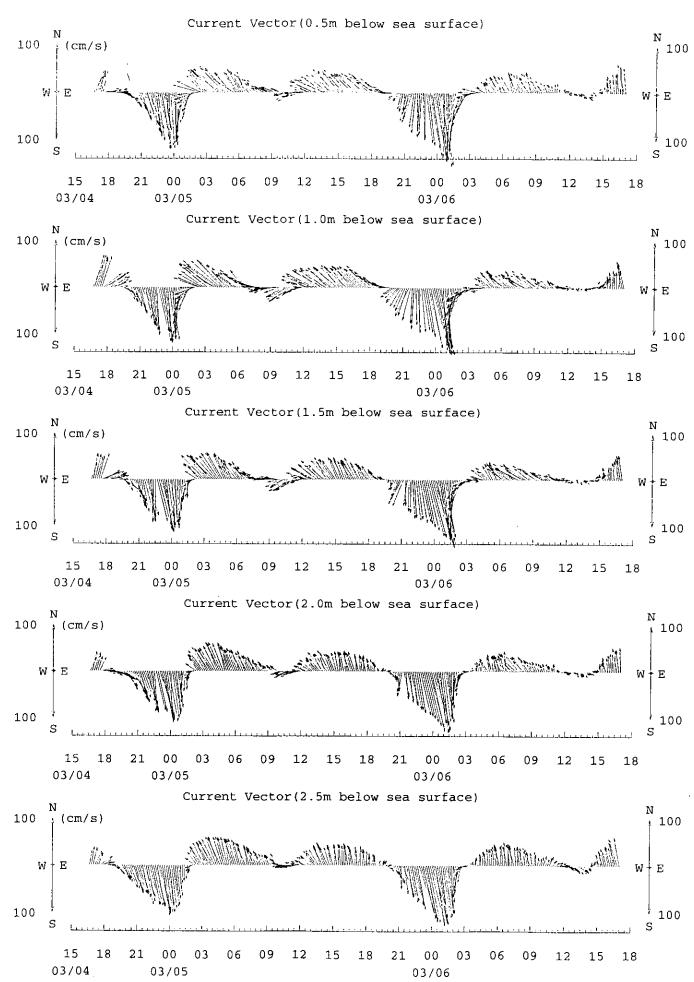
舌 科Cynoglossidae

斑 舌 Cynoglossus puncticeps (Richardson)

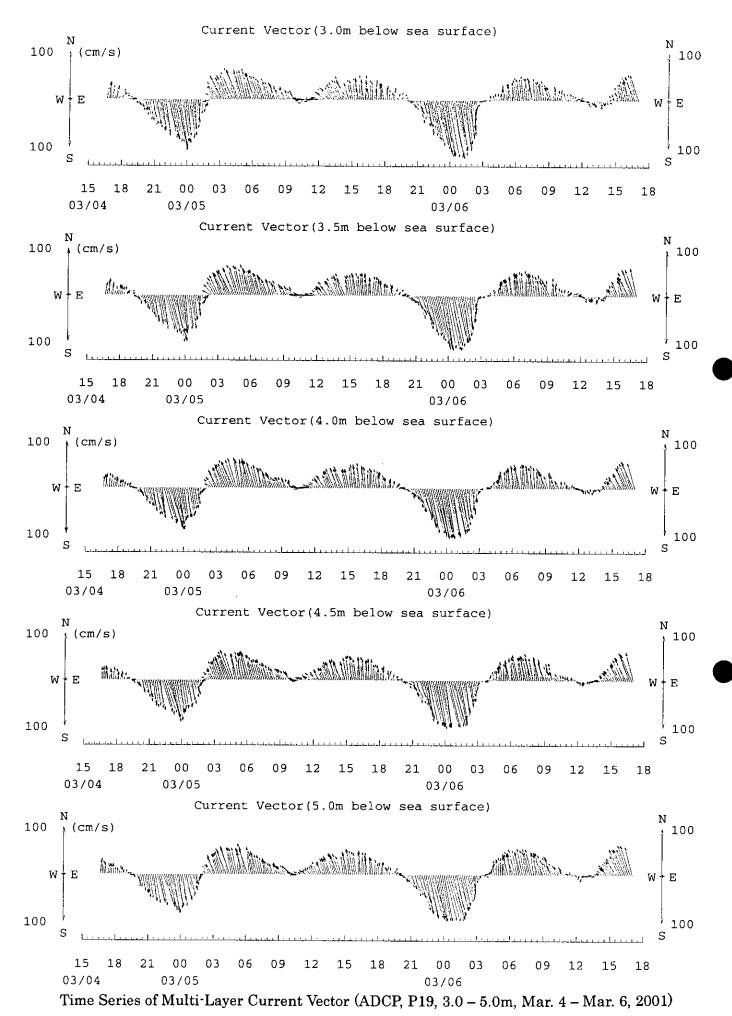
Printer:Xu Zhi Bing,Wei Gui Qiu

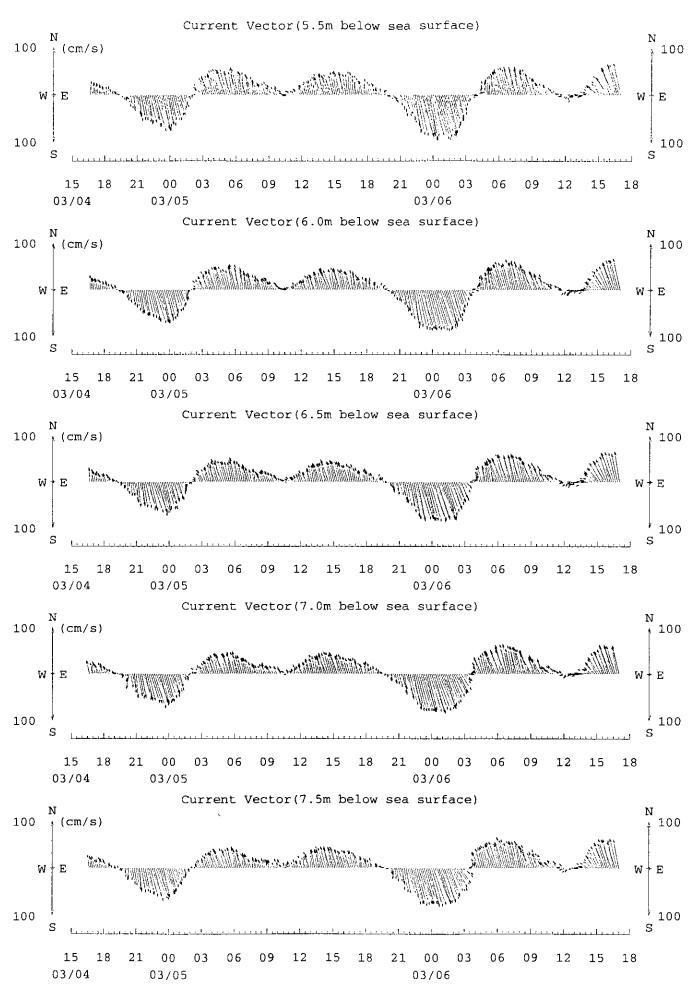
Checker:Ou Qiang

Examiner: Zhong Si Sheng

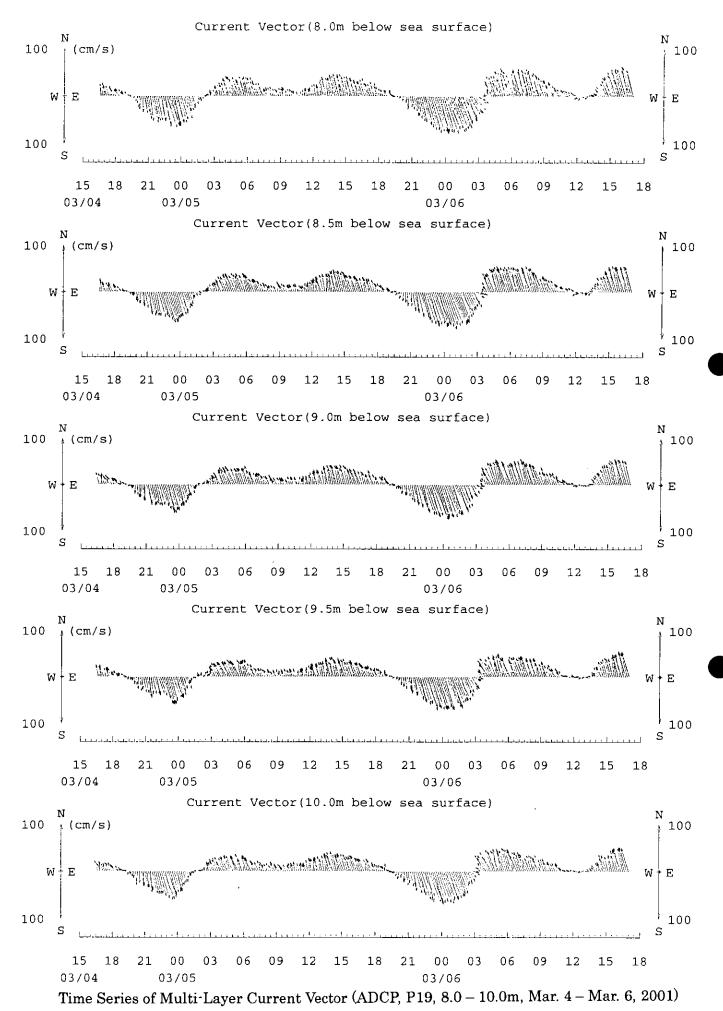


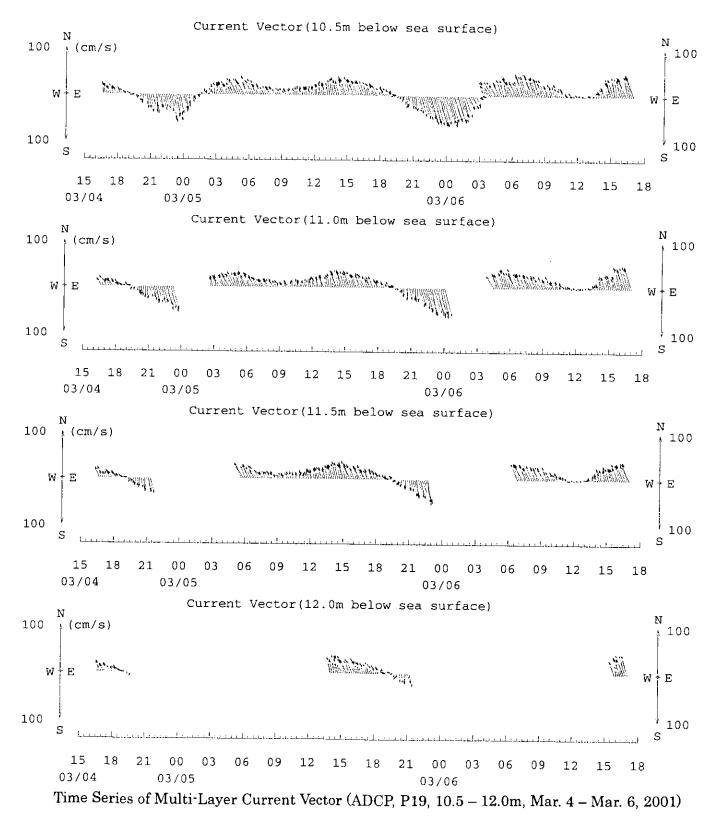
Time Series of Multi-Layer Current Vector (ADCP, P19, 0.5 - 2.5m, Mar. 4 - Mar. 6, 2001)



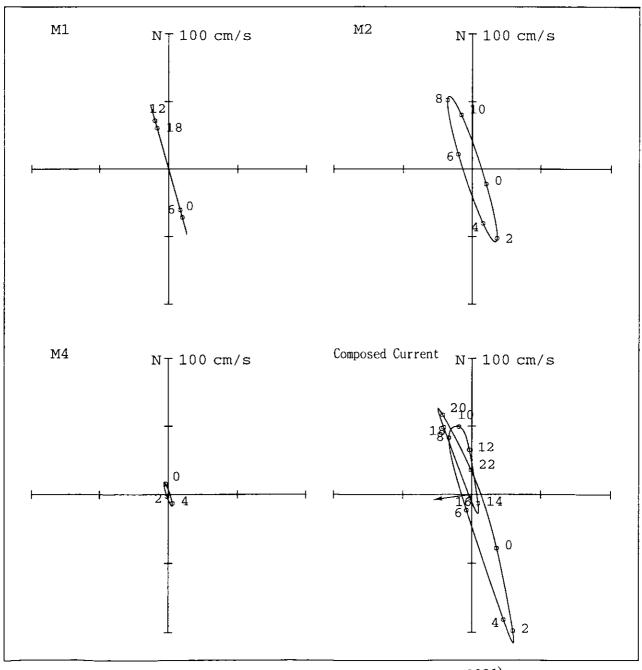


Time Series of Multi-Layer Current Vector (ADCP, P19, 5.5 - 7.5m, Mar. 4 - Mar. 6, 2001)



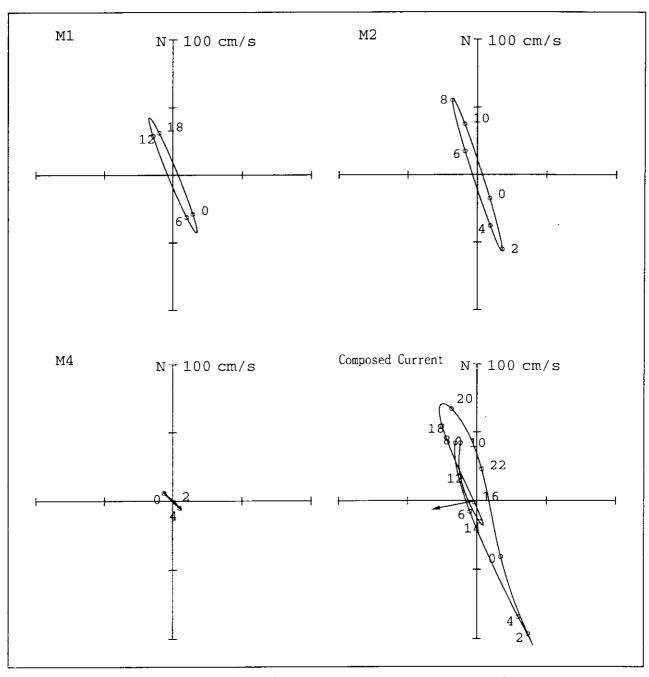


#### Current Ellipse( 0.5m below sea surface)



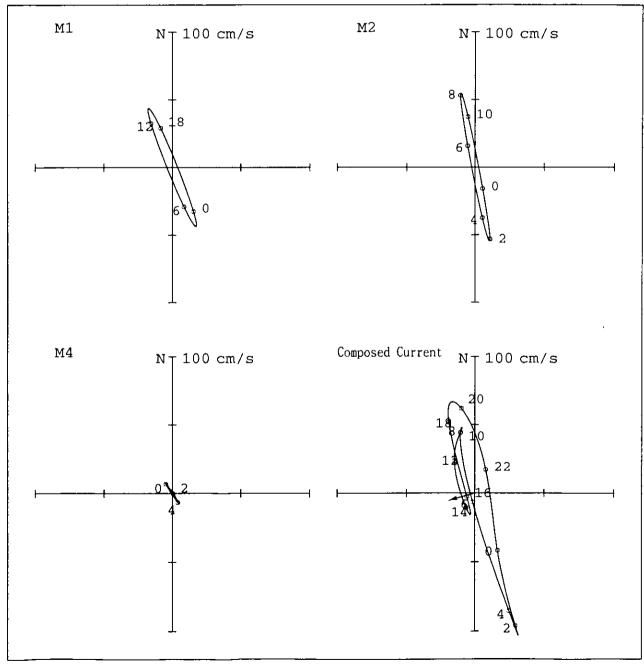
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

Current Ellipse( 1.0m below sea surface)



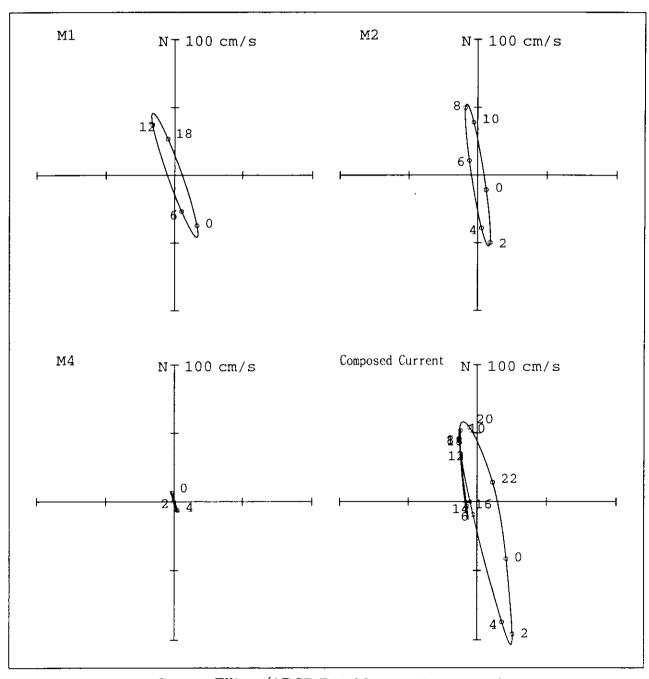
Current Ellipse (ADCP, P20, Mar. 4-Mar. 6, 2001)

#### Current Ellipse( 1.5m below sea surface)



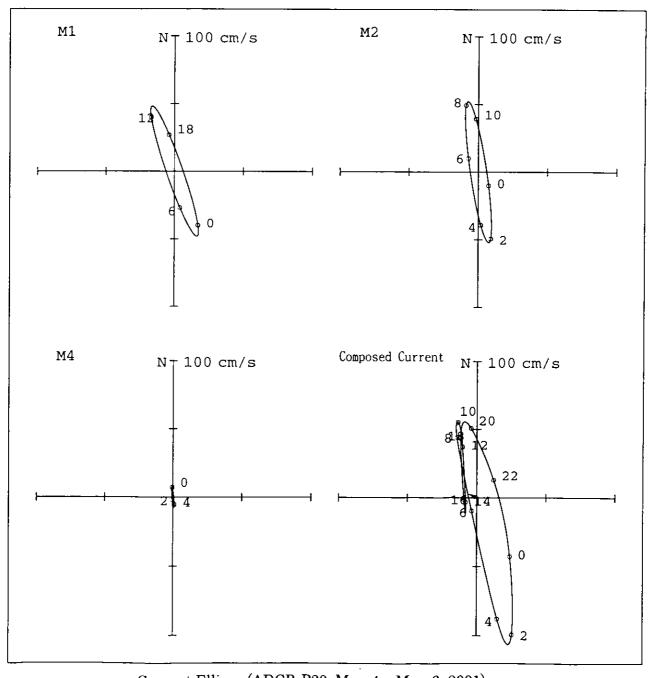
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse( 2.0m below sea surface)



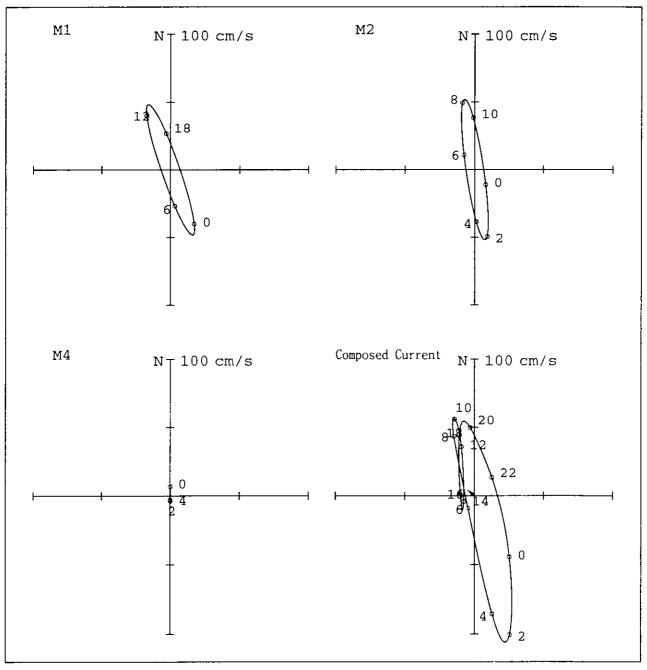
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

## Current Ellipse( 2.5m below sea surface)



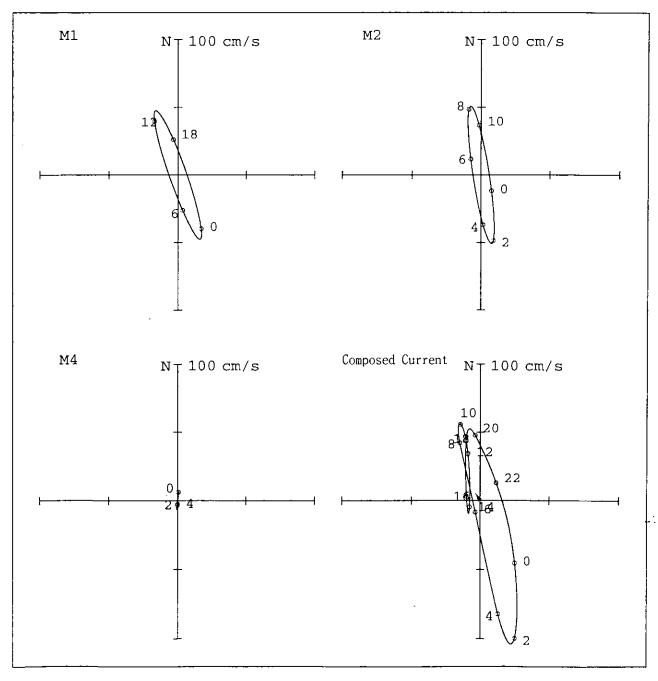
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

Current Ellipse (3.0m below sea surface)



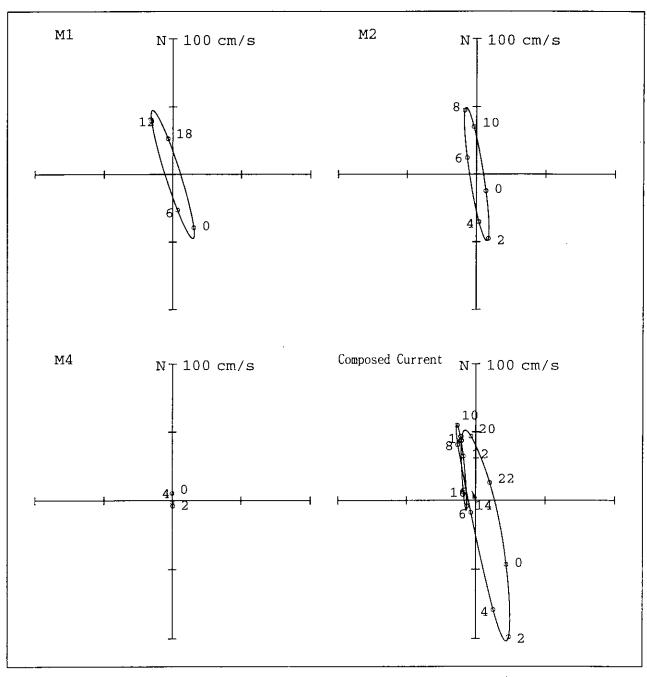
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse( 3.5m below sea surface)



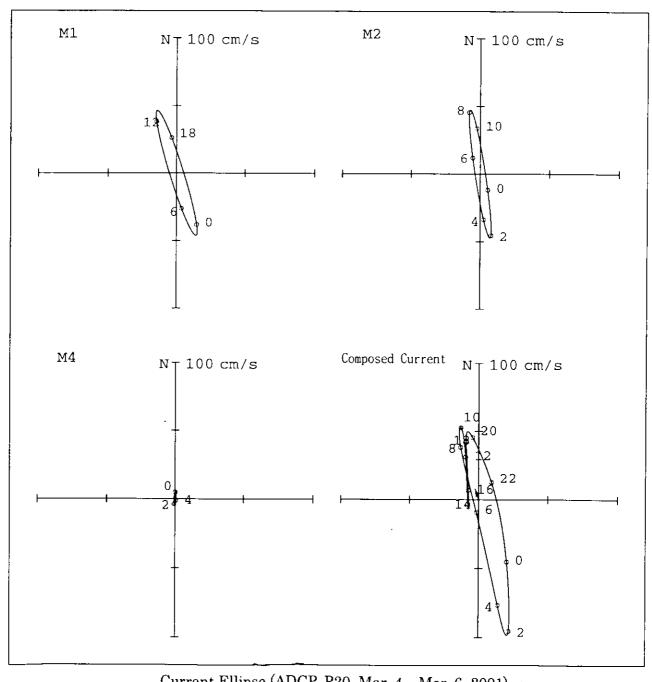
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse( 4.0m below sea surface)



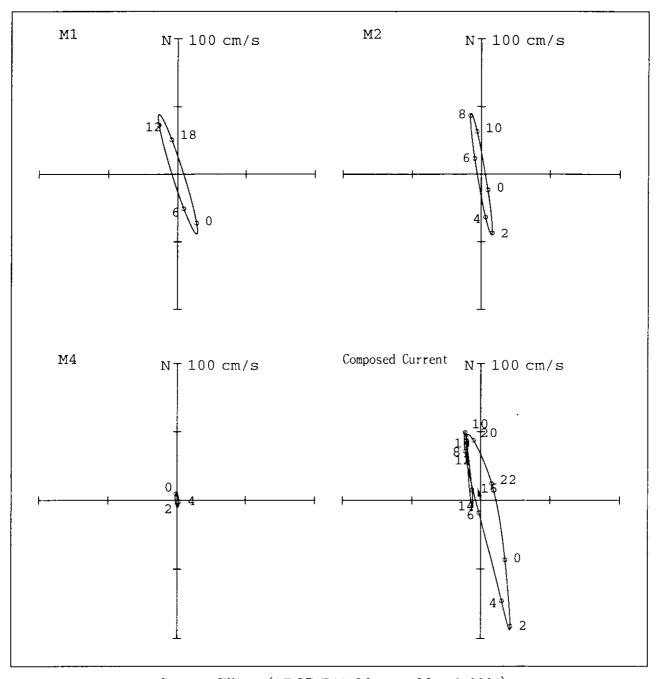
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

## Current Ellipse( 4.5m below sea surface)



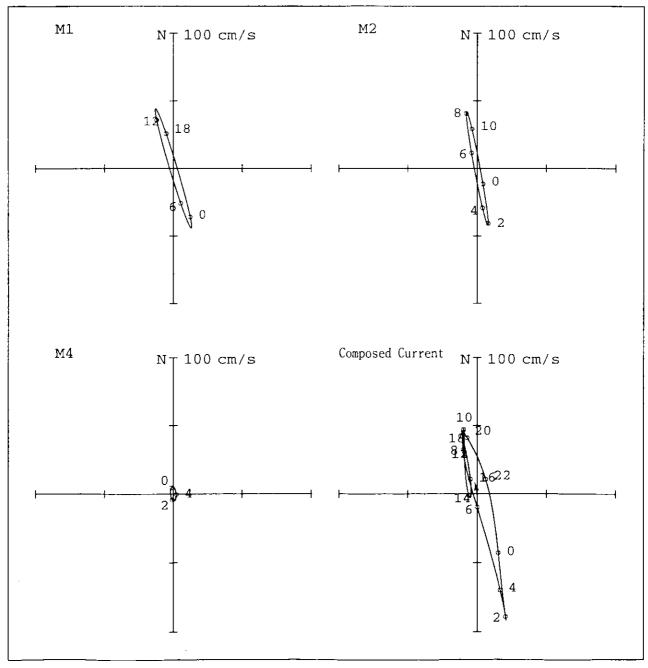
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

#### Current Ellipse (5.0m below sea surface)



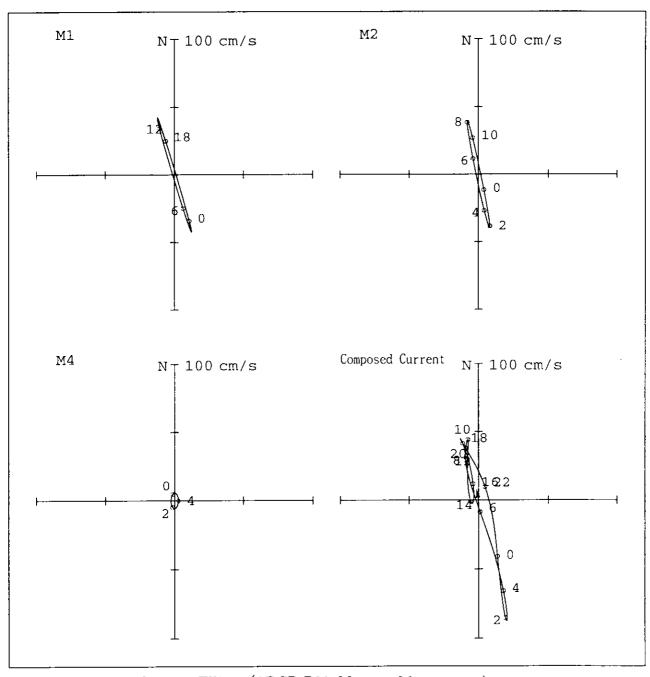
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

# Current Ellipse( 5.5m below sea surface)



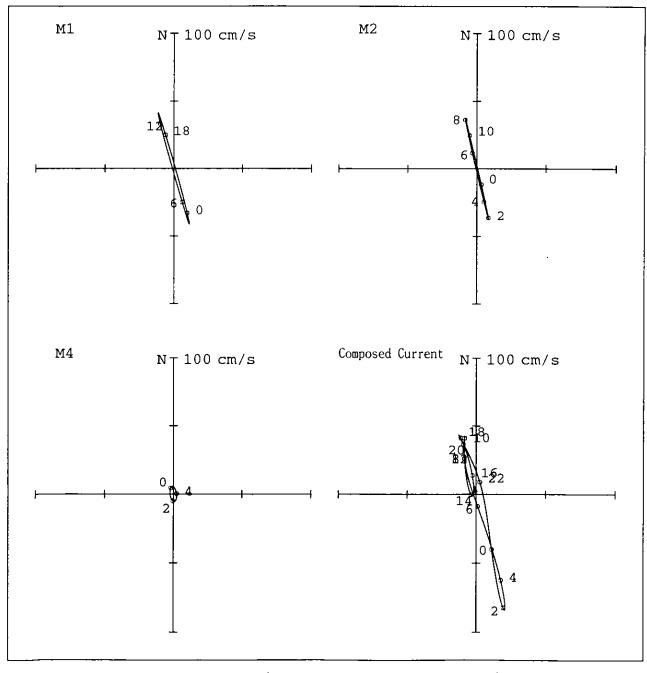
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

Current Ellipse( 6.0m below sea surface)



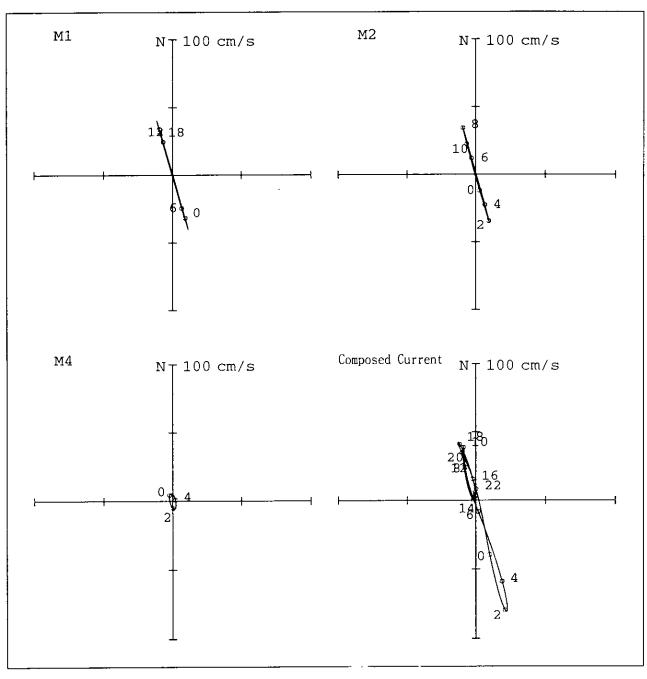
Current Ellipse (ADCP, P20, Mar. 4-Mar. 6, 2001)

## Current Ellipse( 6.5m below sea surface)



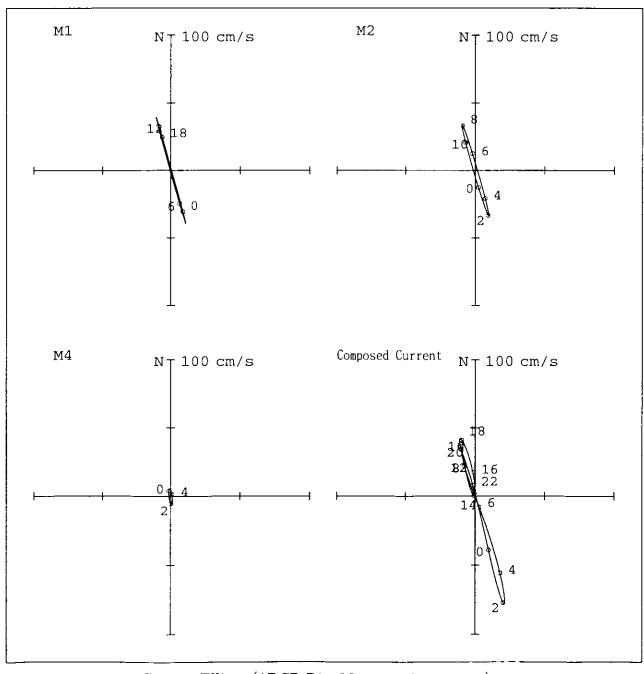
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

Current Ellipse( 7.0m below sea surface)



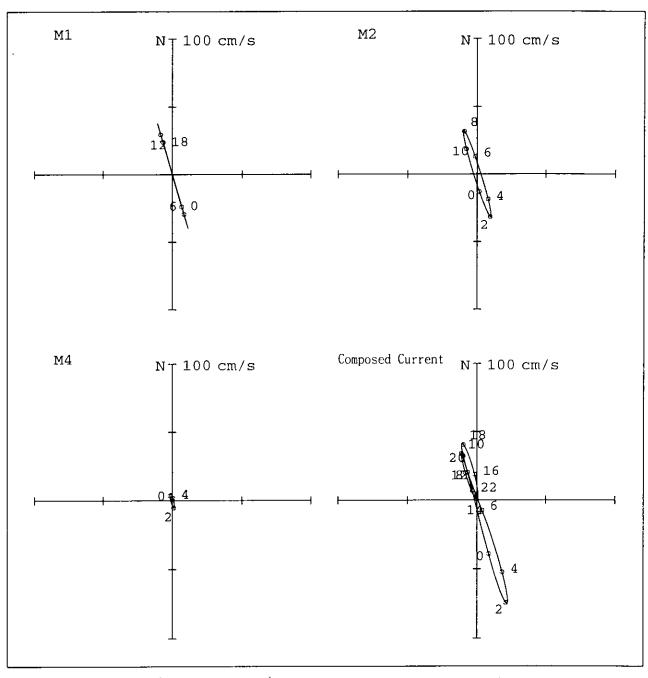
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse( 7.5m below sea surface)



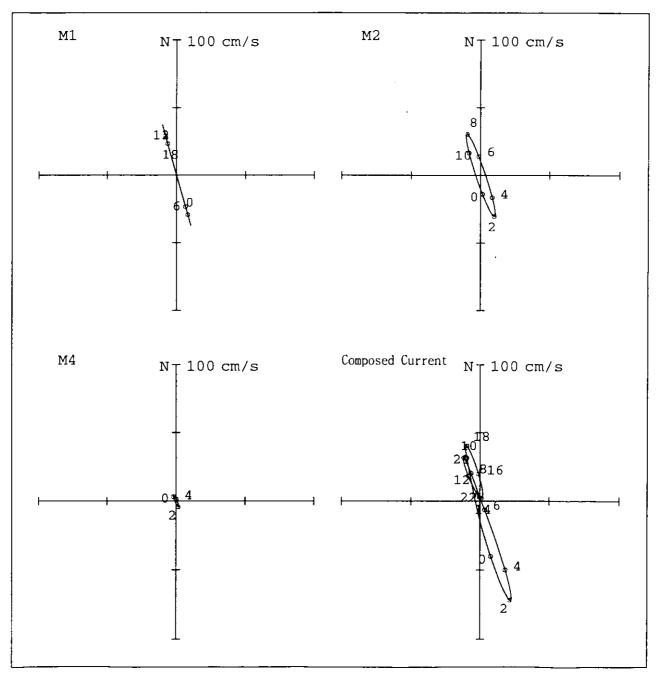
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

Current Ellipse (8.0m below sea surface)



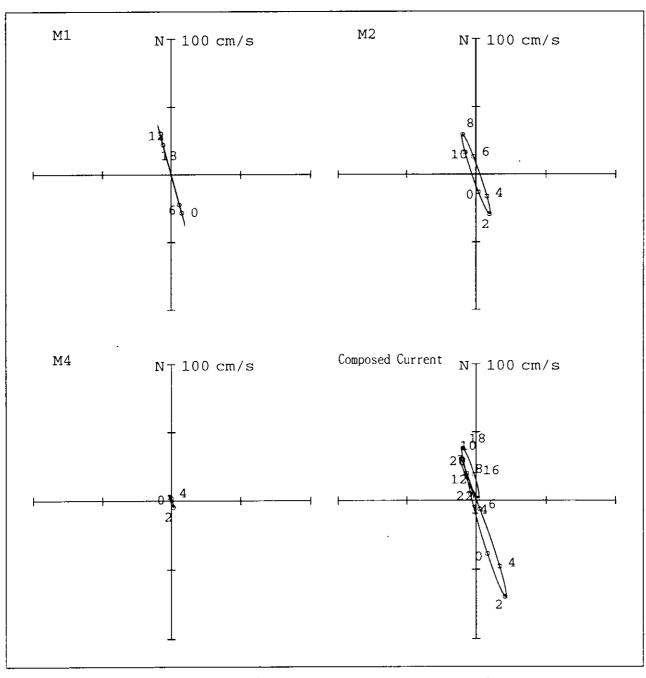
Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse( 8.5m below sea surface)



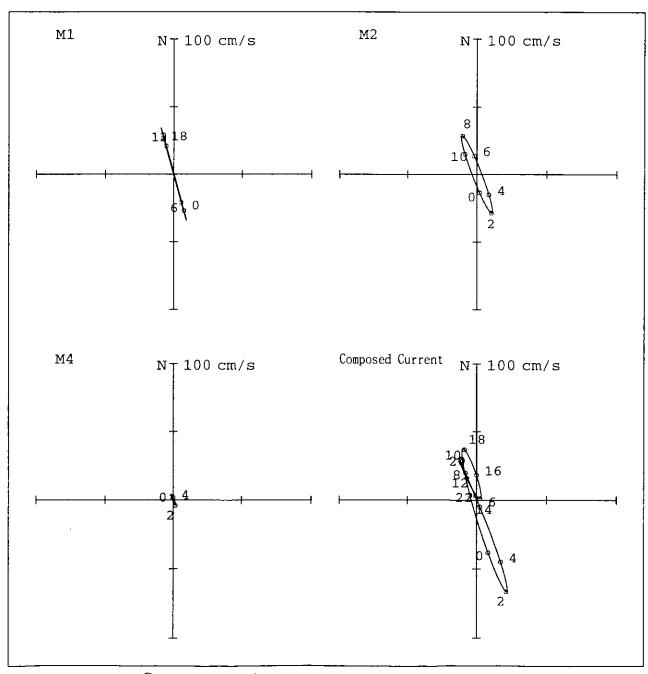
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

#### Current Ellipse (9.0m below sea surface)



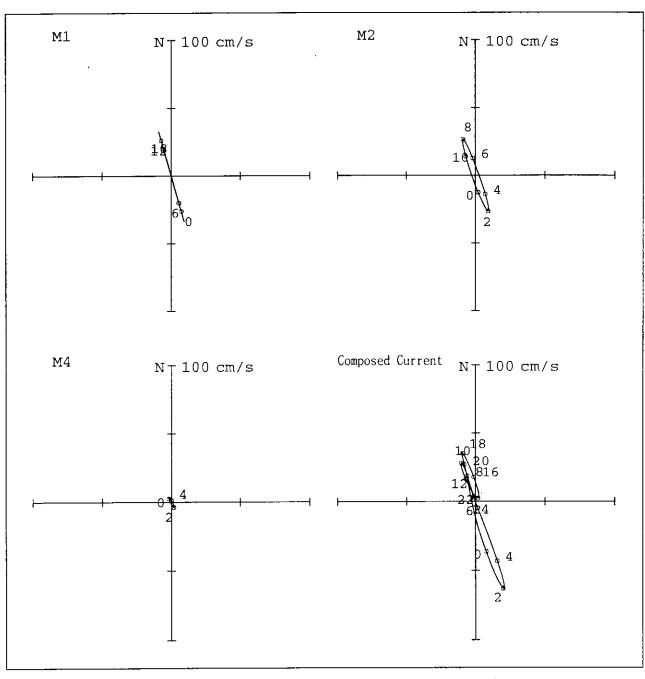
Current Ellipse (ADCP, P20, Mar. 4-Mar. 6, 2001)

## Current Ellipse( 9.5m below sea surface)



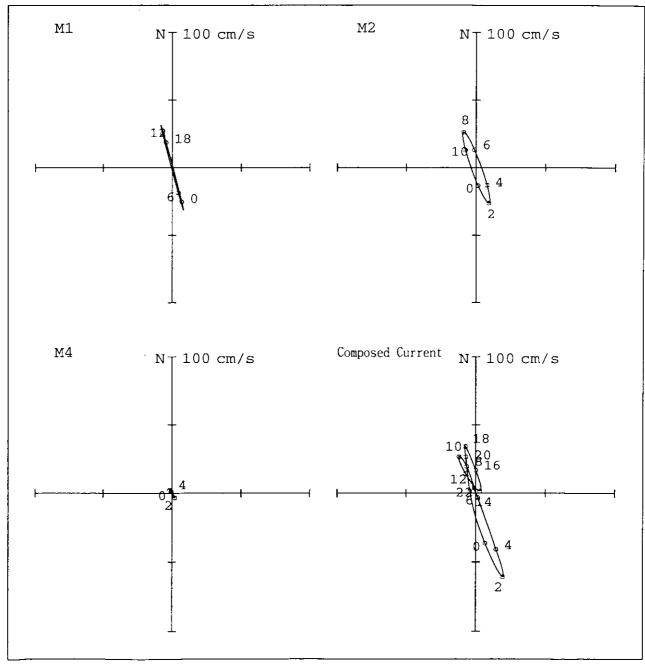
Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)

Current Ellipse(10.0m below sea surface)



Current Ellipse (ADCP, P20, Mar. 4 – Mar. 6, 2001)

## Current Ellipse(10.5m below sea surface)



Current Ellipse (ADCP, P20, Mar. 4 - Mar. 6, 2001)