

**ZOOPLANKTON WET WEIGHT BIOMASS TEST RESULTS SHEET
ON RAINY SEASON FOR SINO-JAPAN JOINT STUDY
ON THE PEARL RIVER ESTUARY**

No.	Point No.	Wet weight biomass	No.	Point No.	Wet weight biomass
		(mg/m ³)			(mg/m ³)
1	P01	2646.74	14	P14	1458.33
2	P02	416.67	15	P15	5972.22
3	P03	2812.50	16	P16	2560.98
4	P04	781.25	17	P17	2500.00
5	P05	1562.50	18	P18	900.00
6	P06	3541.67	19	P19	3575.00
7	P07	104.17	20	P20	1506.94
8	P08	1111.11	21	P21	900.00
9	P09	981.31	22	P22	2380.95
10	P10	500.00	23	P23	2234.38
11	P11	833.33	24	P24	333.33
12	P12	1708.33	25	P25	2035.71
13	P13	2000.00	26	P26	208.33

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

No.	Phylum	Stn. No.	Species name	P01		P02		P03		P04		P05		P06		P07		
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	
1	CNIDARIA		<i>Cavernularia obesa</i>															
2	PLATHELMINTHES		<i>Elasmodes</i> sp.															
3	NEMERTINEA		<i>Cerebratulina</i> sp.															
4	MOLLUSCA		<i>Minolia chinensis</i>															
5			<i>Turritella bacillum</i>															
6			<i>Natica tigrina</i>															
7			<i>Sinum javanicum</i>															
8			<i>Murex trapa</i>															
9			<i>Nassarius festivus</i>															
10			<i>Nassarius variciferus</i>															
11			<i>Nassarius succinctus</i>															
12			<i>Nassarius siquijorensis</i>															
13			<i>Nassarius hepaticus</i>															
14			<i>Oliva mustelina</i>															
15			<i>Turricula nelliae</i>															
16		<i>Inquistor flavidula</i>																
17		<i>Lophiotoma leucotropis</i>																
18		<i>Terebra dussumieri</i>																
19		<i>Architectonica perspectiva</i>																
20		<i>Nucula tenuis</i>																
21		<i>Mabellarca consociata</i>																
22		<i>Scapharca globosa</i>																
23		<i>Macoma praeurupta</i>																
24		<i>Moerella jedoensis</i>																
25		<i>Solen dunkerianus</i>																
26		<i>Siliqua minima</i>																
27		<i>Corbicula fluminea</i>																
28		<i>Paphia undulata</i>																
29		<i>Dosinia japonica</i>																
30		<i>Chione scabra</i>																
31		<i>Potamocorbula laevis</i>												10.00	1.18			
32		<i>Cuspidaria chinensis</i>																
33	ANNELIDA		<i>Eulalia viridis</i>															
34			<i>Phylodoce madeirensis</i>															
35			<i>Phylodoce chinensis</i>															

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

No.	Phylum	Species name	Stn. No.	P01		P02		P03		P04		P05		P06		P07	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
36	ANNELIDA	<i>Hesiono intertexta</i>															
37		<i>Tyloneis bogoyawleskyi</i>															
38		<i>Glycera alba</i>															
39		<i>Aglaophamus lyrochaeto</i>			2.50	0.25											
40		<i>Aglaophamus sinensis</i>															
41		<i>Diopatra variabilis</i>															
42		<i>Marphysa belli</i>															
43		<i>Lumbrineris heteropoda</i>															
44		<i>Lumbrineris nagae</i>															
45		<i>Schistomeringos rudolphi</i>															
46		<i>Schistomeringos sp.</i>															
47		<i>Haploscoloplos elongatus</i>															
48		<i>Polydora sp.</i>															
49		<i>Cossurella dimorpha</i>															
50		<i>Sternaspis scutata</i>															
51		<i>Capitella capitata</i>															
52		<i>Heteromastus filiformis</i>												10.00	0.15	5.00	0.13
53		<i>Euchymene lombricoides</i>															
54		<i>Ophelia acuminata</i>															
55		<i>Terebellides stroemi</i>															
56		<i>Limnodriloides sp.</i>															
57	ECHIURA	<i>Listriolobus brevirostris</i>															
58	ARTHROPODA	<i>Balanus reticulatus</i>															
59		<i>Alpheus rapacida</i>															
60		<i>Alpheus malabaricus leptopus</i>															
61		<i>Alpheus sp.</i>															
62		<i>Upogebia spinifrons</i>															
63		<i>Raphidopus ciliatus</i>															
64		<i>Hexapinus granuliferus</i>															
65		<i>Euclate costata</i>															
66		<i>Scalopidia spinosipes</i>															
67		<i>Typhlocarcinus nudus</i>															
68		<i>Typhlocarcinus villosus</i>															
69		<i>Xenophthalmodes moebii</i>															
70		<i>Neoxenophthalmus obscurus</i>															

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

No.	Phylum	Species name	Stn. No.	P01		P02		P03		P04		P05		P06		P07	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
71	ARTHROPODA	<i>Varuna litterata</i>						25.00	4.88	22.50	9.20						
72		<i>Oratosquilla oratoria</i>															
73	ECHINODERMATA	<i>Amphioplus laevis</i>															
74		<i>Amphioplus depressus</i>															
75		<i>Acaudina molpadioides</i>															
76		<i>Protankyra bidentata</i>															
77	VERTEBRATA	<i>Oxyurichthys tentacularis</i>															
78		<i>Ctenotrypauchen microcephalus</i>															
79		<i>Odontamblyopus rubicundus</i>		2.50	15.50												

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

No.	Phylum	Sin. No. Species name	P08		P09		P10		P11		P12		P13		P14		
			ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	
1	CNIDARIA	<i>Cavernularia obesa</i>			5.00	0.95	2.50	0.80	2.50	1.50							
2	PLATHELMINTHES	<i>Elasmodes sp.</i>															
3	NEMERTINEA	<i>Cerebratulina sp.</i>															
4	MOLLUSCA	<i>Minolia chinensis</i>															
5		<i>Turritella bacillum</i>															
6		<i>Natica tigrina</i>															
7		<i>Sinum javanicum</i>															
8		<i>Murex trapa</i>															
9		<i>Nassarius festivus</i>															
10		<i>Nassarius variciferus</i>							2.50	0.63	12.50	4.70					
11		<i>Nassarius succinctus</i>							2.50	0.43	7.50	1.08					
12		<i>Nassarius siquijorensis</i>							2.50	0.38	10.00	1.73					
13		<i>Nassarius hepaticus</i>															
14		<i>Oliva mustelina</i>															
15		<i>Turricula nelliae</i>															
16		<i>Inquisitor flavidula</i>															
17		<i>Lophiotoma leucotropis</i>															
18		<i>Terebra dussumieri</i>															
19		<i>Architectonica perspectiva</i>															
20		<i>Nucula tenuis</i>										17.50	1.33				
21		<i>Mabellarca consociata</i>															
22		<i>Scapharca globosa</i>															
23		<i>Macoma praeurptu</i>															
24		<i>Moerella jedoensis</i>															
25		<i>Solen dunkerianus</i>															
26		<i>Siliqua minima</i>															
27		<i>Corbicula fluminica</i>															
28		<i>Paphia undulata</i>															
29		<i>Dosinia japonica</i>															
30	<i>Chione scabra</i>																
31	<i>Potamocorbula laevis</i>									19320.00	1050.00	27125.00	437.50				
32	<i>Cuspidaria chinensis</i>							25.00	1.20								
33	<i>Eulalia viridis</i>																
34	<i>Phylodoce madetrensis</i>																
35	<i>Phylodoce chinensis</i>							2.50	0.28	2.50	0.13						

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

No.	Phylum	Species name	Stn. No.	P08		P09		P10		P11		P12		P13		P14	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
36	ANNELIDA	<i>Hesione intertexta</i>															
37		<i>Tylosereis bogoyawleskyi</i>			2.50	0.88	20.00	10.25									
38		<i>Glycera alba</i>		2.50	0.23	7.50	1.13										
39		<i>Aglaophamus lyrochaeto</i>										7.50	0.10				
40		<i>Aglaophamus sinensis</i>															
41		<i>Diopatra variabilis</i>			2.50	0.08											
42		<i>Marphysa belli</i>			2.50	0.13											
43		<i>Lumbrineris heteropoda</i>															
44		<i>Lumbrineris nagae</i>															
45		<i>Schistomeringos rudolphi</i>															
46		<i>Schistomeringos sp.</i>															
47		<i>Haploscoloplos elongatus</i>															
48		<i>Polydora sp.</i>															
49		<i>Cossurella dimorpha</i>															
50		<i>Sternaspis scutata</i>															
51		<i>Capitella capitata</i>												5.00	0.13		
52		<i>Heteromastus filiformis</i>			10.00	0.30			5.00	0.13	2.50	0.13				5.00	0.28
53		<i>Euclymene lombricoidea</i>															
54		<i>Ophelia acuminata</i>															
55		<i>Terebellides stroemi</i>			5.00	0.18											
56		<i>Limnodriloides sp.</i>															
57	ECHIURA	<i>Listriolobus brevirostris</i>															
58	ARTHROPODA	<i>Balanus reticulatus</i>									20.00	0.08					
59		<i>Alpheus rapacida</i>			2.50	0.35											
60		<i>Alpheus malabaricus leptopus</i>															
61		<i>Alpheus sp.</i>									2.50	0.20					
62		<i>Upogebia spinifrons</i>															
63		<i>Raphidopus ciliatus</i>															
64		<i>Hexapinus granuliferus</i>															
65		<i>Eucrate costata</i>									2.50	6.90					
66		<i>Scalopidia spinosipes</i>															
67		<i>Typhlocarcinus nudus</i>															
68		<i>Typhlocarcinus villosus</i>															
69		<i>Xenopthalmodes moebii</i>															
70		<i>Neuxenopthalmus obscurus</i>															

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

No.	Phylum	Species name	Stn. No.	P08		P09		P10		P11		P12		P13		P14	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
71	ARTHROPODA	<i>Varuna litterata</i>															
72		<i>Oratosquilla oratoria</i>															
73	ECHINODERMATA	<i>Amphioplus laevis</i>							5.00	0.20							
74		<i>Amphioplus depressus</i>															
75		<i>Acaudina molpadioides</i>															
76		<i>Protankyra bidentata</i>			2.50	0.45											
77	VERTEBRATA	<i>Oxyurichthys tentacularis</i>															
78		<i>Ctenorhynchus microcephalus</i>															
79		<i>Odontamblyopus rubicundus</i>													2.50	0.53	

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

No.	Phylum	Species name	Stn. No.	P15		P16		P17		P18		P19		P20		P21	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
1	CNIDARIA	<i>Cavernularia obesa</i>															
2	PLATHELMINTHES	<i>Elasmodes sp.</i>							5.00	0.80							
3	NEMERTINEA	<i>Cerebratulina sp.</i>															
4	MOLLUSCA	<i>Minolia chinensis</i>							7.50	31.88			7.50	1.60			
5		<i>Turritella bacillum</i>															
6		<i>Natica tigrina</i>															
7		<i>Sinum javanicum</i>															
8		<i>Murex trapa</i>											2.50	2.05			
9		<i>Nassarius festivus</i>											32.50	0.8			
10		<i>Nassarius variciferus</i>															
11		<i>Nassarius succinctus</i>							7.50	0.78			22.50	2.05			
12		<i>Nassarius siquijorensis</i>											60.00	4.08			
13		<i>Nassarius hepaticus</i>															
14		<i>Oliva mustelina</i>							2.50	0.18			5.00	0.18			
15		<i>Turricula nelliae</i>											2.50	1.08			
16		<i>Inquistor flavidula</i>											2.50	0.90			
17		<i>Lophiotoma leucotropis</i>															
18		<i>Terebra dussumieri</i>											10.00	1.43			
19		<i>Architectonica perspectiva</i>											2.50	0.20			
20		<i>Nucula tenuis</i>							5.00	0.65							
21		<i>Mabellarca consociata</i>															
22		<i>Scapharca globosa</i>											2.50	0.55			
23		<i>Macoma praeurupta</i>															
24		<i>Moerella jedoensis</i>															
25		<i>Solen dunkerianus</i>											2.50	0.28			
26		<i>Siliqua minima</i>															
27		<i>Corbicula fluminea</i>											2.50	0.23			
28		<i>Paphia undulata</i>											2.50				
29		<i>Dosinia japonica</i>											7.50	27.88			
30		<i>Chione scabra</i>											2.50	0.08			
31		<i>Potamocorbula laevis</i>							5.00	0.35			8437.50	312.50	12.50	0.35	
32		<i>Cuspidaria chinensis</i>													2.50	0.13	
33	ANNELIDA	<i>Eulalia viridis</i>											2.50	2.03			
34		<i>Phylodoce madeirensis</i>															
35		<i>Phylodoce chinensis</i>															

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

No.	Phylum	Stn. No. Species name	P15		P16		P17		P18		P19		P20		P21			
			ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²		
36	ANNELIDA	<i>Hexione intertexta</i>																
37		<i>Tyloneis bogoyawleskyi</i>																
38		<i>Glycera alba</i>			2.50	1.05												
39		<i>Aglaophamus lyrochaeto</i>																
40		<i>Aglaophamus sinensis</i>																
41		<i>Diopatra variabilis</i>																
42		<i>Marphysa belli</i>																
43		<i>Lumbrineris heteropoda</i>																
44		<i>Lumbrineris nagae</i>																
45		<i>Schistomeringos rudolphi</i>																
46		<i>Schistomeringos sp.</i>																
47		<i>Haploscoloplos elongatus</i>																
48		<i>Polydora sp.</i>																
49		<i>Cossurella dimorpha</i>																
50		<i>Sternaspis scutata</i>																
51		<i>Capitella capitata</i>																
52		<i>Heteromastus filiformis</i>			2.50	0.10			12.50	0.60			5.00	0.08			2.50	
53		<i>Euchymene lombricoides</i>																
54		<i>Ophelia acuminata</i>																
55		<i>Terebellides stroemi</i>																
56		<i>Limnodriloides sp.</i>																
57		ECHIURA	<i>Listriolobus brevirostris</i>															
58		ARTHROPODA	<i>Balanus reticulatus</i>										147.50	8.58				
59			<i>Alpheus rapacida</i>												20.00	3.70	2.50	0.43
60			<i>Alpheus malabaricus leptopus</i>												2.50	0.13		
61			<i>Alpheus sp.</i>															
62			<i>Upogebia spinifrons</i>			2.50	0.13								5.00	0.20		
63	<i>Raphidopus ciliatus</i>																	
64	<i>Hexapinus granuliferus</i>				2.50	0.08	2.50	0.08	2.50	0.08	5.00	0.30	2.50	0.10				
65	<i>Eucrate costata</i>																	
66	<i>Scalopidia spinosipes</i>															2.50	0.80	
67	<i>Typhlocarcinus nudus</i>																	
68	<i>Typhlocarcinus villosus</i>															5.00	0.23	
69	<i>Xenopthalmodes moebii</i>																	
70	<i>Neocnophthalmus obscurus</i>				7.50	1.68					2.50	0.73			2.50	1.08		

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

No.	Phylum	Species name	Stn. No.	P15		P16		P17		P18		P19		P20		P21	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
71	ARTHROPODA	<i>Varuna litterata</i>															
72		<i>Oratosquilla oratoria</i>												2.50	2.85		
73	ECHINODERMATA	<i>Amphiopus laevis</i>															
74		<i>Amphiopus depressus</i>															
75		<i>Acaudina molpadioides</i>			2.50	1.85											
76		<i>Protankyra bidentata</i>			15.00	23.45				7.50	7.08	22.50	27.68				
77	VERTEBRATA	<i>Oxyurichthys tentacularis</i>		2.50	0.10												
78		<i>Ctenotrypauchen microcephalus</i>															
79		<i>Odontamblyopus rubicundus</i>														2.50	0.38

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

No.	Phylum	Species name	Stn. No.	P22		P23		P24		P25		P26	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
1	CNIDARIA	<i>Cavernularia obesa</i>										2.50	9.85
2	PLATHELMINTHES	<i>Elasmodes sp.</i>											
3	NEMERTINEA	<i>Cerebratulina sp.</i>					2.50	0.03					
4	MOLLUSCA	<i>Minolia chinensis</i>								52.50	4.45		
5		<i>Turritella bacillum</i>		5.00	6.13							55.00	85.65
6		<i>Natica tigrina</i>										2.50	6.15
7		<i>Sinum javanicum</i>		2.50	2.30								
8		<i>Murex trapa</i>										2.50	1.43
9		<i>Nassarius festivus</i>											
10		<i>Nassarius variciferus</i>					5.00	0.68					
11		<i>Nassarius succinctus</i>					5.00	0.30		7.50	1.73	17.50	2.98
12		<i>Nassarius siquijorensis</i>											
13		<i>Nassarius hepaticus</i>				2.50	0.53					2.50	0.25
14		<i>Oliva mustelina</i>				2.50	1.35						
15		<i>Turricula nelliae</i>										2.50	1.28
16		<i>Inquistor flavidula</i>											
17		<i>Lophiotoma leucotropis</i>		2.50	2.08	2.50	2.45						
18		<i>Terebra dussumieri</i>											
19		<i>Architectonica perspectiva</i>											
20		<i>Nucula tenuis</i>											
21		<i>Mabellarca consociata</i>		2.50	19.00					2.50	16.78		
22		<i>Scapharca globosa</i>											
23		<i>Macoma praerupta</i>				2.50	1.80					10.00	11.93
24		<i>Moerella jadoensis</i>		2.50	0.78					2.50	0.50	2.50	0.55
25		<i>Solen dunkerianus</i>											
26		<i>Siliqua minima</i>				2.50	0.33	17.50	2.30			30.00	18.83
27		<i>Corbicula fluminea</i>											
28		<i>Paphia undulata</i>		12.50	33.43	2.50	1.30						
29		<i>Dosinia japonica</i>		2.50	2.08								
30		<i>Chione scabra</i>											
31		<i>Potamocorbula laevis</i>						5.00	0.13	5.00	0.20	5.00	0.10
32		<i>Cuspidaria chinensis</i>											
33	ANNELIDA	<i>Eulalia viridis</i>											
34		<i>Phyllodoce madeirensis</i>						2.50	0.28	10.00	0.15		
35		<i>Phyllodoce chinensis</i>											

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

No.	Phylum	Species name	Sin. No.	P22		P23		P24		P25		P26		
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	
36	ANNELIDA	<i>Hesion e intertexta</i>												
37		<i>Tylonereis bogoyawleskyi</i>												
38		<i>Glycera alba</i>										2.50	0.68	
39		<i>Aglaophamus lyrochaeto</i>	7.50	3.85	2.50	2.50								
40		<i>Aglaophamus sinensis</i>												
41		<i>Diopatra variabilis</i>												
42		<i>Marphysa belli</i>												
43		<i>Lumbrineris heteropoda</i>												
44		<i>Lumbrineris nagae</i>							5.00	1.43				
45		<i>Schistomeringos rudolphi</i>							2.50	0.05				
46		<i>Schistomeringos sp.</i>												
47		<i>Haploscoloplos elongatus</i>	5.00	0.10								5.00	0.60	
48		<i>Polydora sp.</i>							2.50	0.18				
49		<i>Cossurella dimorpha</i>	2.50	0.08										
50		<i>Sternaspis scutata</i>										10.00	0.28	
51		<i>Capitella capitata</i>												
52		<i>Heteromastus filiformis</i>							10.00	0.20			7.50	0.70
53		<i>Euclymene lombricoides</i>									5.00	1.38		
54		<i>Ophelia acuminata</i>	2.50	0.60										
55		<i>Terebellides stroemi</i>												
56		<i>Limnodriloides sp.</i>	5.00	0.30	5.00	1.35								
57		<i>Listriolobus brevirostris</i>	40.00	23.98							12.50	4.38		
58		<i>Balanus reticulatus</i>												
59		<i>Alpheus rapacida</i>	2.50	1.20										
60		<i>Alpheus malabaricus leptopus</i>									10.00	0.63		
61		<i>Alpheus sp.</i>												
62		<i>Upogebia spinifrons</i>												
63		<i>Raphidopus ciliatus</i>	2.50	0.45							2.50	0.28		
64		<i>Hexapinus granuliferus</i>	35.00	3.70	10.00	0.55								
65	<i>Eucrate costata</i>													
66	<i>Scalopidia spinosipes</i>	2.50	0.65											
67	<i>Typhlocarcinus nudus</i>													
68	<i>Typhlocarcinus villosus</i>									2.50	0.20			
69	<i>Xenopithaimodes moebii</i>	2.50	0.25											
70	<i>Neoxenopithaimus obscurus</i>			17.50	4.25									

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

No.	Phylum	Species name	Stn. No.	P22		P23		P24		P25		P26	
				ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
71	ARTHROPODA	<i>Varuna litterata</i>											
72		<i>Oratosquilla oratoria</i>											
73	ECHINODERMATA	<i>Amphioplus laevis</i>		7.50	0.55	15.00	1.80			12.50	1.10		
74		<i>Amphioplus depressus</i>											
75		<i>Acaudina molpadioides</i>								2.50	0.63		
76		<i>Protankyra bidentata</i>				2.50	1.43						
77	VERTEBRATA	<i>Oxyurichthys tentacularis</i>		5.00	7.63								
78		<i>Ctenotrypauchen microcephalus</i>				2.50	11.70						
79		<i>Odonambulypopus rubicundus</i>											

SPECIMEN LIST OF BENTHOS
ON RAINY SEASON
FOR
SINO-JAPAN JOINT STUDY
ON
THE PEARL RIVER ESTUARY

SOUTH CHINA SEA ENVIRONMENTAL MONITORING CENTRE
OF
STATE OCEANIC ADMINISTRATION
SEPT 2000

**SPECIMEN LIST OF BENTHOS ON RAINY SEASON FOR SINO-JAPAN
JOINT STUDY ON THE PEARL RIVER ESTUARY**

腔肠动物门 Coelenterata

沙箸科 Veretillidae

海仙人掌 *Cavernularia obesa* Milne Edwards et Hailme

扁形动物门 Plathyhelminthes

平角科 Planoceridae

涡虫 *Elasmodes* sp.

纽形动物门 Nemertinea

脑纽科 Cerebratulidae

脑纽虫 *Cerebratulina* sp.

环节动物门 Annelida

叶须虫科 Phyllodoceidae

中华半突虫 *Phyllodoce(Anaitides) chinensis* (Uschakov et Wu)

梭须半突虫 *Phyllodoce (A.) madeirensis* (Langerhans)

巧言虫 *Eulalia viridis* (Linne)

海女虫科 Hesionidae

纵纹海女虫 *Hesione intertexta* Grube

沙蚕科 Nereidae

软疣沙蚕 *Tylonereis bogoyawleskyi* Fauvel

吻沙蚕科 Glyceridae

白色吻沙蚕 *Glycera alba* (Muller)

齿吻沙蚕科 Nephtyidae

中华内卷齿蚕 *Aglaophamus sinensis* Fauvel

弦毛内卷齿蚕 *Aglaophamus lyrochaeto* (Fauvel)

锥头虫科 Orbiniidae

长锥虫 *Haploscoloplos elongatus* (Johnson)

单指虫科 Cossuridae

双形拟单指虫 *Cossurella dimorpha* Hartman

海稚虫科 Spionidae

才女虫 *Polydor* sp.

小头虫科 Capitellidae

小头虫科 *Capitella capitata* (Fabricius)

异蚓虫 *Heteromastus filiformis* (Claparede)

节节虫科 Maldanidae

曲强真节虫 *Euclymene lombricoides* (Quatrefages)

海蛹科 Opheliidae

角海蛹 *Ophelia acuminata* Oersted

欧努菲虫科 Onuphidae

杂色巢沙蚕 *Diopatra variabilis* Southern

矾沙蚕科 Eunicidae

Printer: Wei Gui Qiu

Checker: Huang Ya Liang

Examiner: Zhong Si Sheng

1-1

**SPECIMEN LIST OF BENTHOS ON RAINY SEASON FOR SINO-JAPAN
JOINT STUDY ON THE PEARL RIVER ESTUARY**

贝氏岩虫	<i>Marphysa belli</i> Audouin et M. Edwards
索沙蚕科 Lumbrineriidae	
纳加索沙蚕	<i>Lumbrineris nagae</i> Gallardo
异足索沙蚕	<i>Lumbrineris heteropoda</i> (Marenzeller)
豆维虫科 Dorvilleidae	
叉毛豆维虫	<i>Schistomeringos rudolphi</i> (Chiaja)
豆维虫	<i>Schistomeringos</i> sp.
不倒翁虫科 Sternaspidae	
不倒翁虫	<i>Sternaspis scutata</i> (Renier)
毛鳃虫科 Trichobrachidae	
梳鳃虫	<i>Terebellides stroemii</i> Sars
颤蚓科 Tubificidae	
沼蚓	<i>Limnodriloides</i> sp.
螯虫动物门 Echiura	
螯虫科 Echiuridae	
短吻铲莢螯	<i>Listriolobus brevirostris</i> Chen et Yeh
软体动物门 Mollusca	
胡桃蛤科 Nuculidae	
细弱胡桃蛤	<i>Nucula (Nucula) tenuis</i> (Montagu)
蚌科 Arcidae	
胀毛蚌	<i>Scapharca globosa</i> (Reeve)
联珠蚌	<i>Mabellarca consociata</i> (Smith)
樱蛤科 Tellinidae	
江戸明樱蛤	<i>Moerella jedoensis</i> (Lischke)
紫边白樱蛤	<i>Macoma (Psammacoma) praerupta</i> Salisbury
竹蛭科 Solenidae	
短竹蛭	<i>Solen dunkerianus</i> Clessin
刀蛭科 Cultellidae	
小莢蛭	<i>Siliqua minima</i> Dunker
蚬科 Corbiculidae	
河蚬	<i>Corbicula fluminea</i> (Muller)
帘蛤科 Veneridae	
日本镜蛤	<i>Dosinia (Phacosoma) japonica</i> (Reeve)
粗雪蛤	<i>Chione (Timoclea) scabra</i> (Hanley)
波纹巴非蛤	<i>Paphia (Paratapes) undulata</i> (Born)
篮蛤科 Corbulidae	
光滑河篮蛤	<i>Potamocorbula laevis</i> (Hinds)
杓蛤科 Cuspidariidae	
中国杓蛤	<i>Cuspidaria chinensis</i> Griffith et Pidgeon

Printer: Wei Gui Qiu
 Checker: Huang Ya Liang
 Examiner: Zhong Si Sheng

2-2

**SPECIMEN LIST OF BENTHOS ON RAINY SEASON FOR SINO-JAPAN
JOINT STUDY ON THE PEARL RIVER ESTUARY**

管角贝科	Siphonodentaliidae	
梭形棒角贝		<i>Cadulus clavatus</i> Gould
马蹄螺科	Trochidae	
中国小铃螺		<i>Minolia chinensis</i> Sowerby
锥螺科	Turritellidae	
棒锥螺		<i>Turritella bacillum</i> Kiener
轮螺科	Architectonicidae	
配景轮螺		<i>Architectonica perspectiva</i> (Linne)
玉螺科	Naticidae	
斑玉螺		<i>Natica tigrina</i> (Roding)
爪哇窦螺		<i>Sinum javanicum</i> (Griffith et Pidgeon)
骨螺科	Muricidae	
浅缝骨螺		<i>Murex trapa</i> Roding
织纹螺科	Nassariidae	
纵肋织纹螺		<i>Nassarius (Varicinassa) variciferus</i> (A. Adams)
秀丽织纹螺		<i>Nassarius (Reticunassa) festivus</i> (Powys)
红带织纹螺		<i>Nassarius (Zeuxis) succinctus</i> (A. Adams)
西格织纹螺		<i>Nassarius (Zeuxis) siquijorensis</i> (A. Adams)
节纹织螺		<i>Nassarius (Zeuxis) hepaticus</i> (Pulteney)
榧螺科	Olividae	
伶鼬榧螺		<i>Oliva mustellina</i> Lamarck
塔螺科	Turridae	
黄短口螺		<i>Inquistor flavidula</i> (Lamarck)
白龙骨乐飞螺		<i>Lophiotoma leucotropis</i> (Adams et Reeve)
假奈拟塔螺		<i>Turricula nelliae</i> (Hedley)
笋螺科	Terebridae	
白带笋螺		<i>Terebra (Noditerebra) dussumieri</i> Kiener
节肢动物门	Arthropoda	
藤壶科	Balanidae	
网纹藤壶		<i>Balanus reticulatus</i> Utinomi
鼓虾科	Alpheidae	
窄足鼓虾		<i>Alpheus malabaricus leptopus</i> de Man
贪食鼓虾		<i>Alpheus rapacida</i> de Man
鼓虾		<i>Alpheus</i> sp.
蛄虾科	Upogebiidae	
刺额蛄虾		<i>Upogebia spinifrons</i> (Haswell)
瓷蟹科	Porcellanidae	
绒毛细足蟹		<i>Raphidopus ciliatus</i> Stimpson
长脚蟹科	Goneplacidae	

Printer: Wei Gui Qiu
 Checker: Huang Ya Liang
 Examiner: Zhong Si Sheng

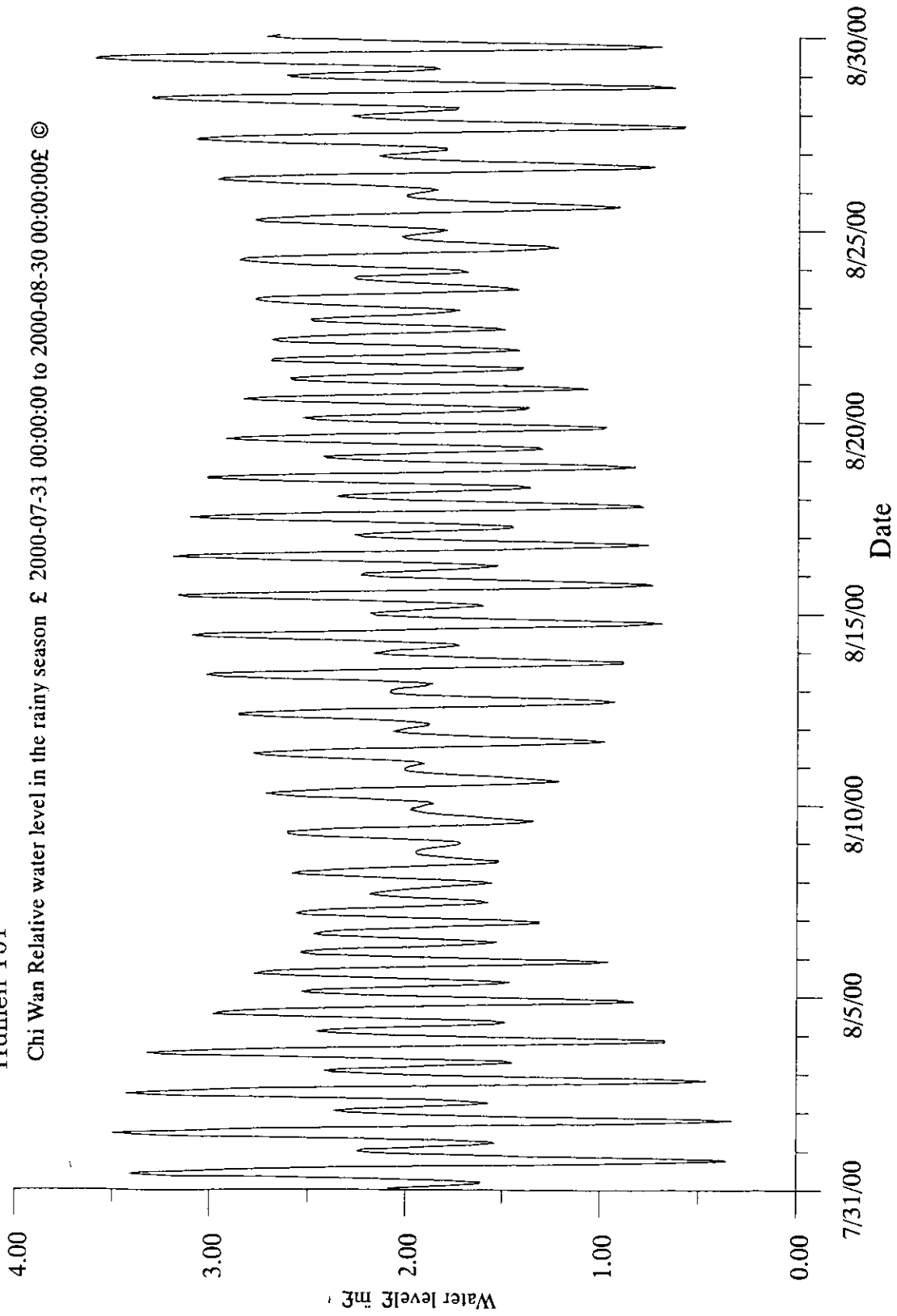
3-3

**SPECIMEN LIST OF BENTHOS ON RAINY SEASON FOR SINO-JAPAN
JOINT STUDY ON THE PEARL RIVER ESTUARY**

隆背强蟹	<i>Eucrate costata</i> Yang et Sun
毛盲蟹	<i>Typhlocarcinus villosus</i> Stimpson
裸盲蟹	<i>Typhlocarcinus nudus</i> Stimpson
刺足掘沙蟹	<i>Scalopidia spinosipes</i> Stimpson
颗粒六足蟹	<i>Hexapus granuliferus</i> Campbell et Stephenson
莫氏仿短眼蟹	<i>Xenophthalmodes moebii</i> Richters
豆蟹科 Pinnotheridae	
模糊新短眼蟹	<i>Neoxenophthalmus obscurus</i> (Henderson)
方蟹科 Grapsidae	
字纹弓蟹	<i>Varuna litterata</i> (Fabricius)
虾蛄科 Squillidae	
口虾蛄	<i>Oratosquilla oratoria</i> (de Haan)
棘皮动物门 Echinodermata	
芋参科 Molpadiidae	
海地瓜	<i>Acaudina molpadioides</i> (Semper)
锚海参科 Synaptidae	
棘刺锚参	<i>Protankyra bidentata</i> (Woodard et Barrett)
阳遂足科 Amphiuridae	
洼颚倍棘蛇尾	<i>Amphioplus depressus</i> (Ljungman)
光滑倍棘蛇尾	<i>Amphioplus laevis</i> (Lyman.)
脊索动物门 Chordata	
鰕虎鱼科 Gobiidae	
触角沟鰕虎鱼	<i>Oxyurichthys tentacularis</i> (Cuvier et Valenciennes)
鳗鰕虎鱼科 Taenioiidae	
红狼牙鰕虎鱼	<i>Odontamblyopus rubicundus</i> (Hamilton-Buchanan)
小头栉孔鰕虎鱼	<i>Ctenotrypauchen microcephalus</i> (Bleeker)

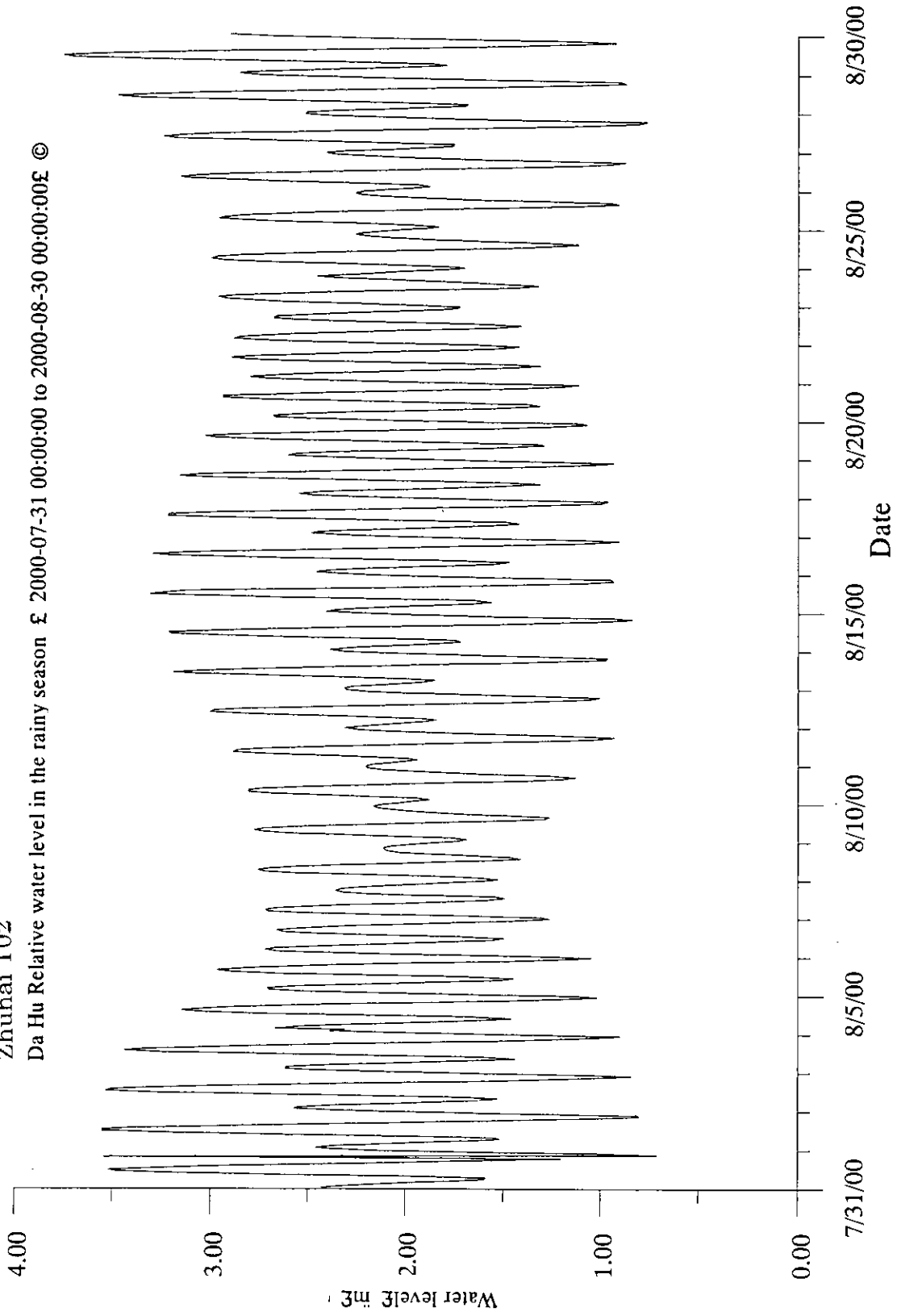
Humen T01

Chi Wan Relative water level in the rainy season £ 2000-07-31 00:00:00 to 2000-08-30 00:00:00£ ©



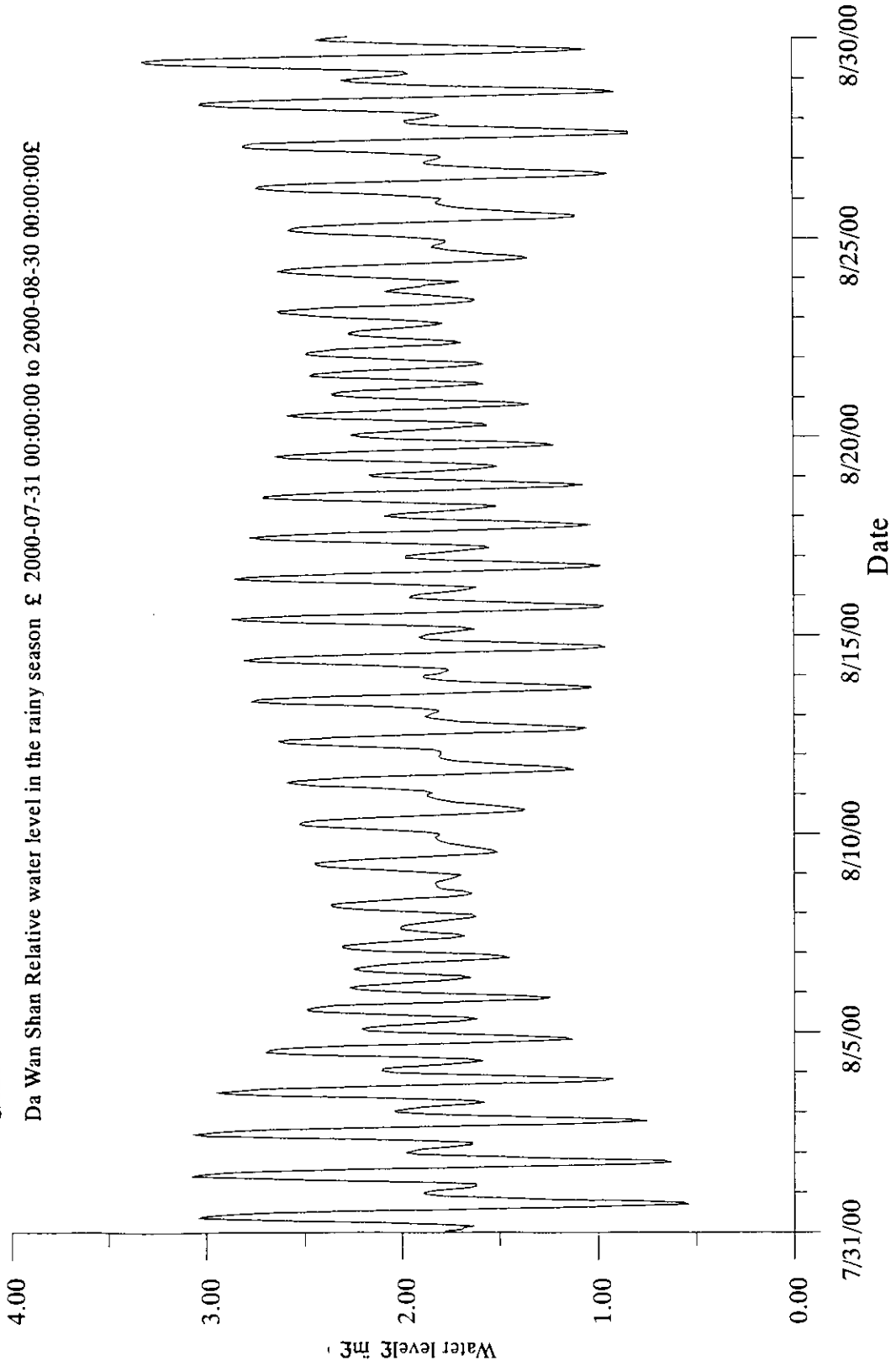
Zhubai T02

Da Hu Relative water level in the rainy season £ 2000-07-31 00:00:00 to 2000-08-30 00:00:00£ ©

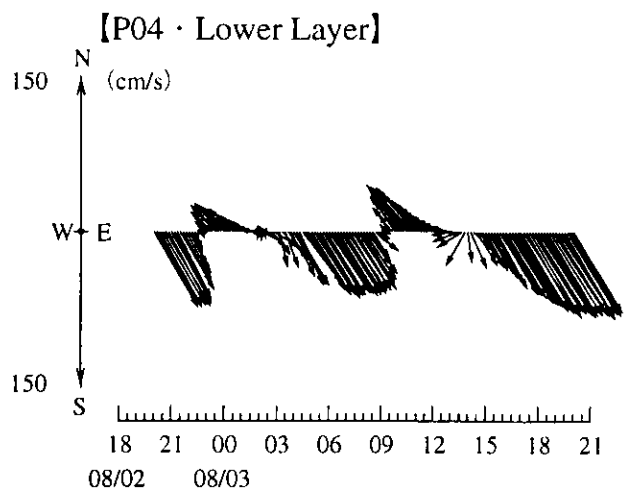
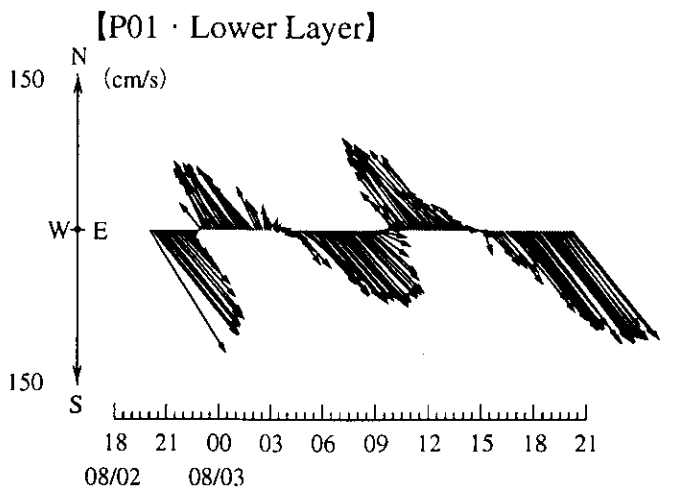
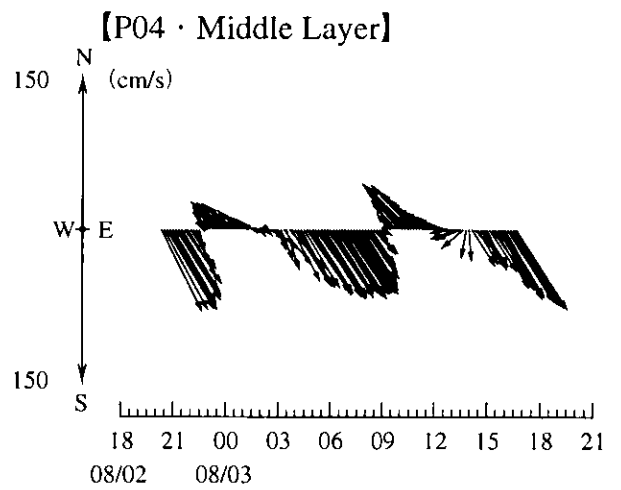
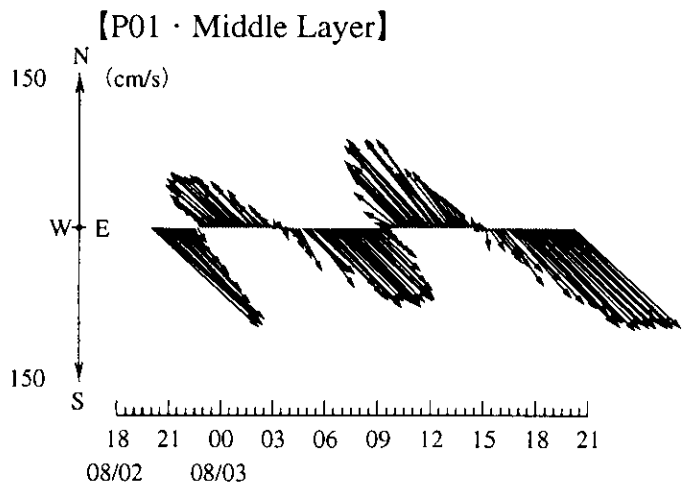
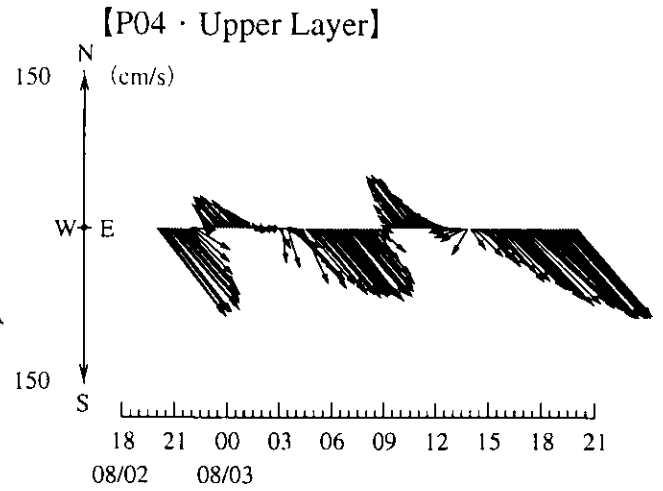
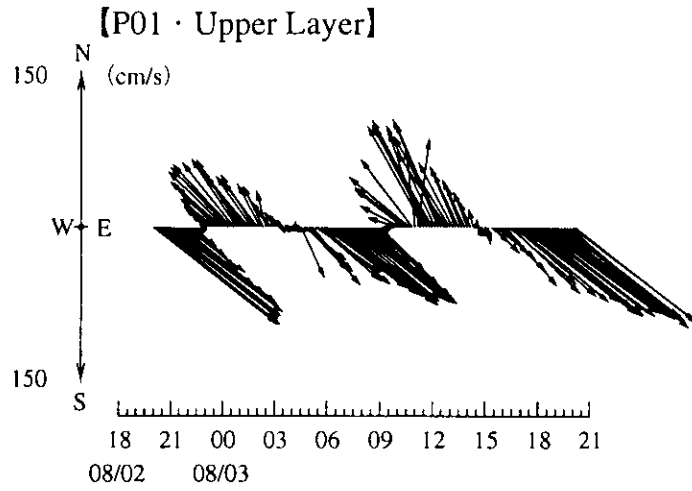


Guishan T03

Da Wan Shan Relative water level in the rainy season £ 2000-07-31 00:00:00 to 2000-08-30 00:00:00£

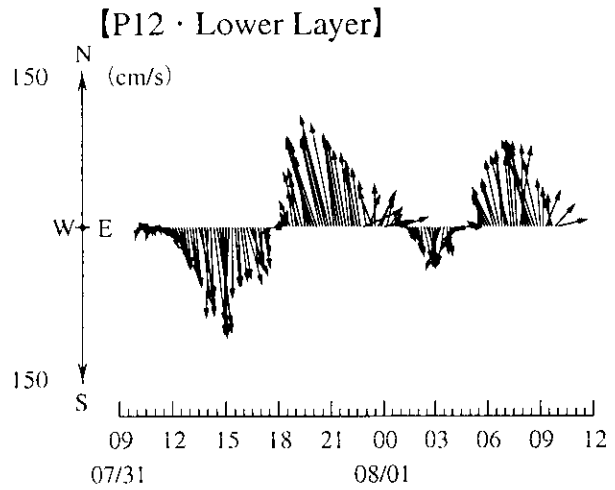
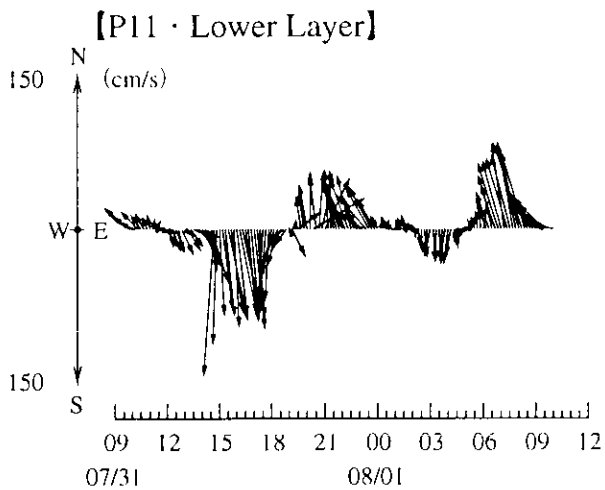
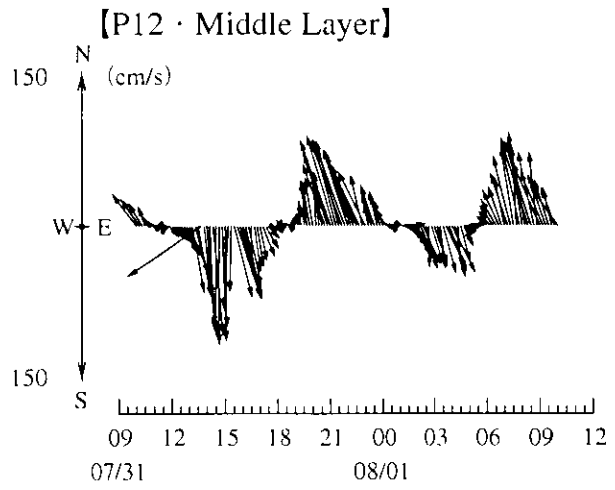
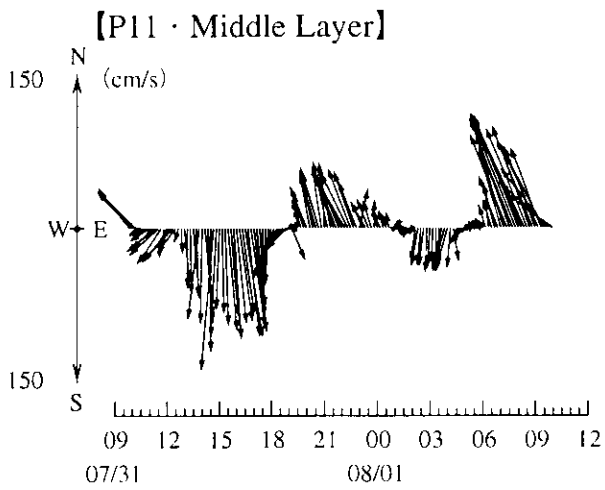
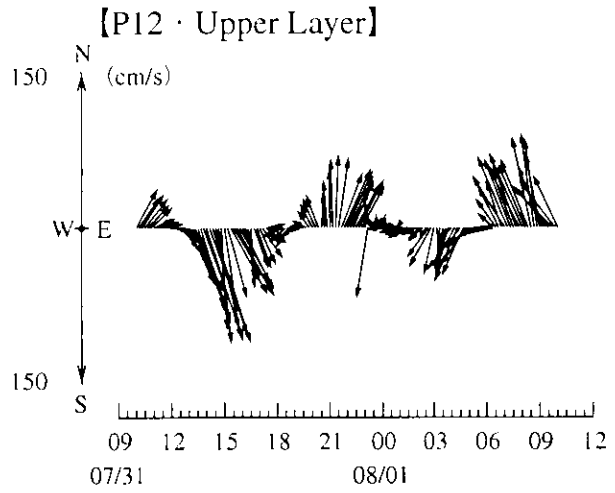
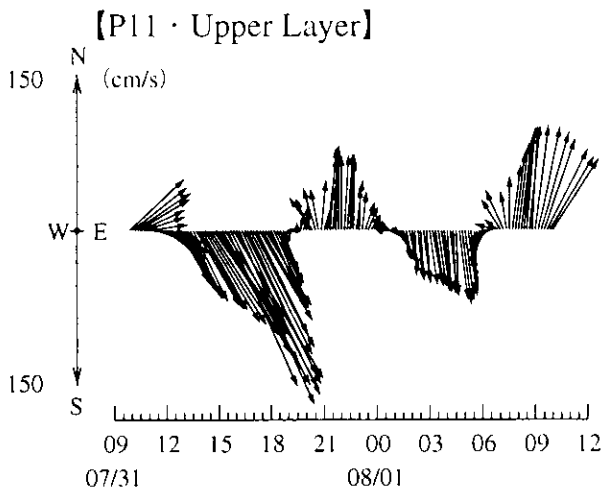


(Spring Tide)



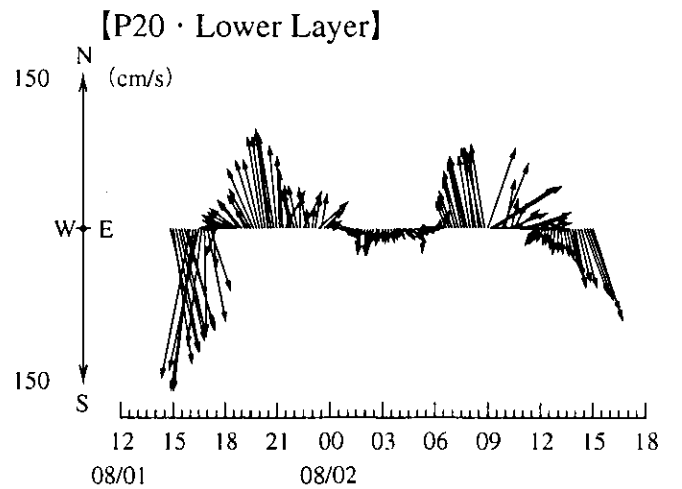
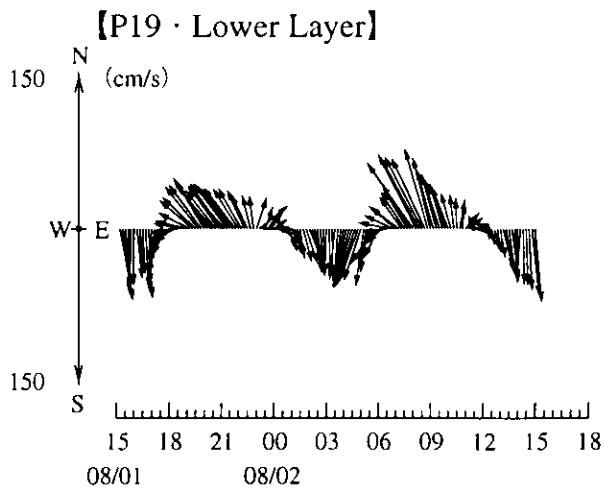
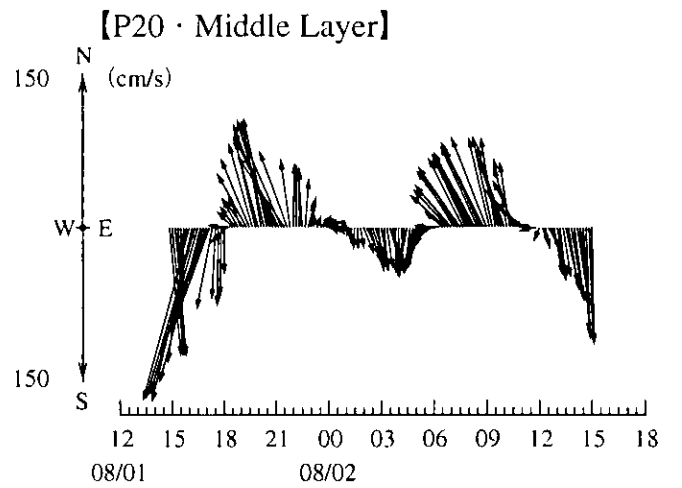
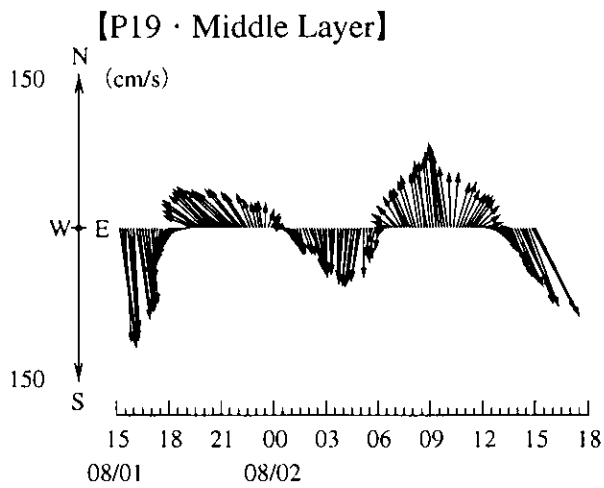
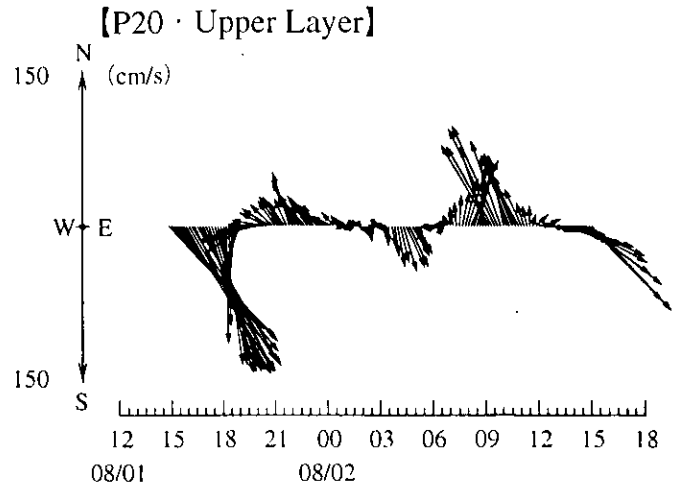
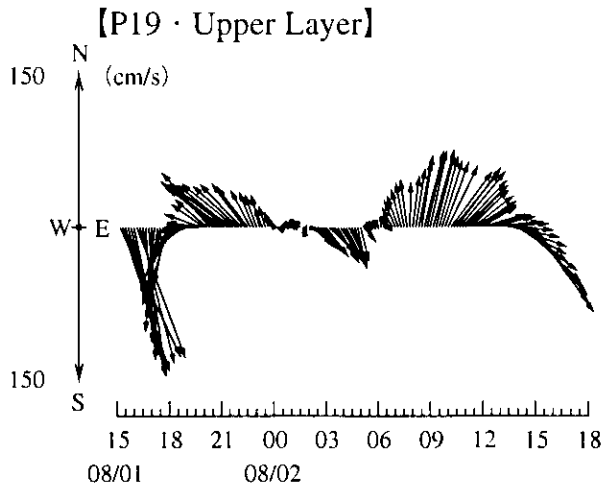
Time Series of Current Vector (P01 and P04, Spring Tide: July 31 - Aug. 3, 2000)

(Spring Tide)



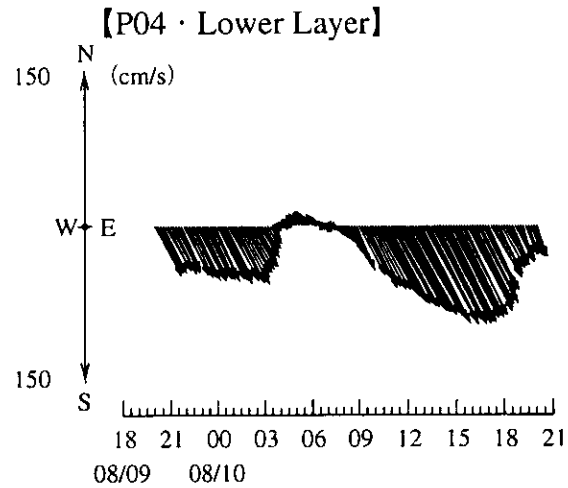
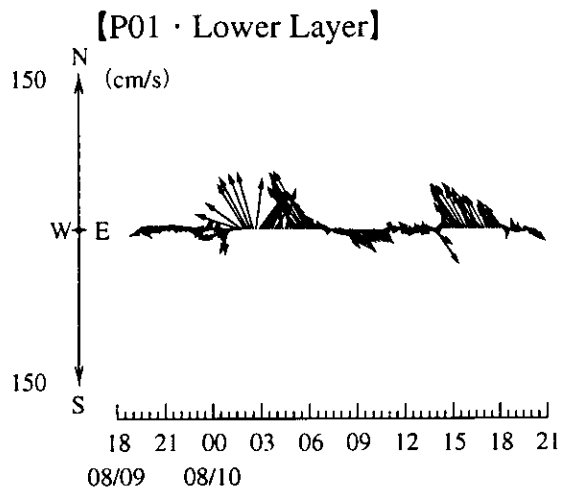
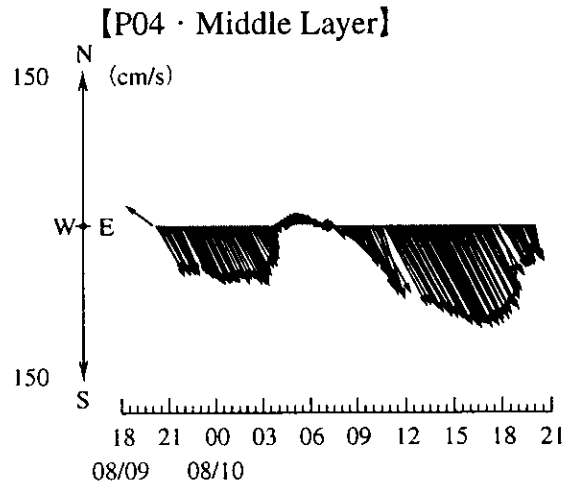
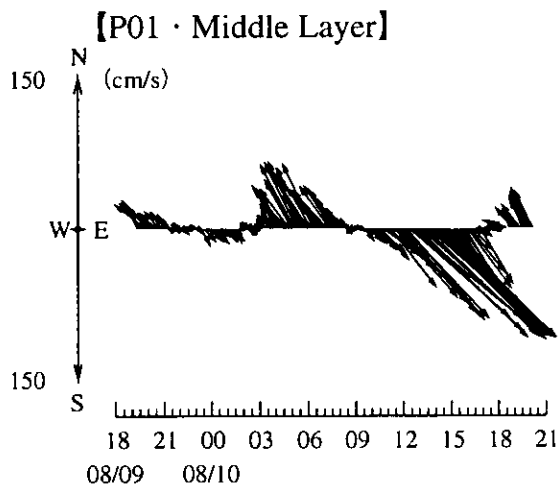
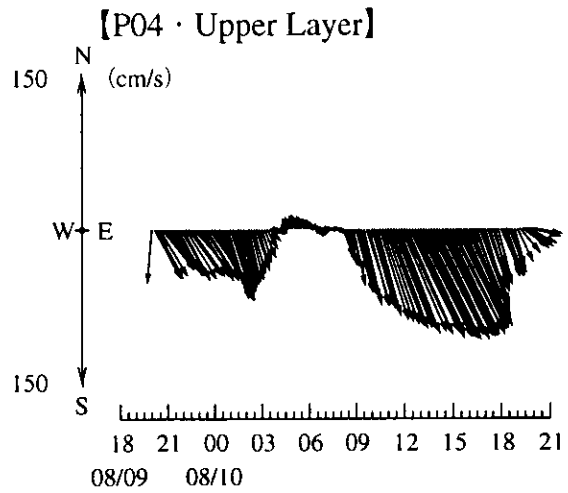
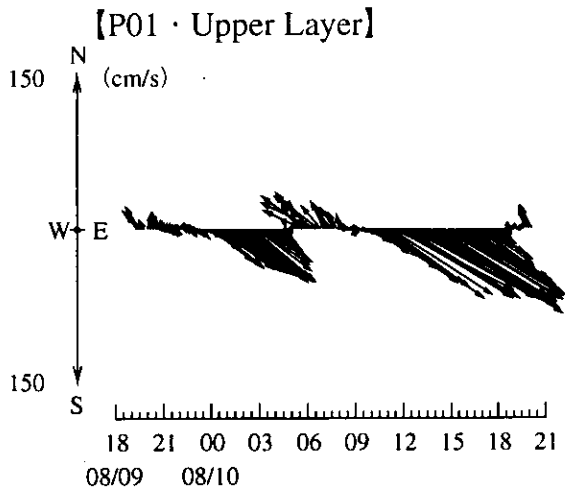
Time Series of Current Vector (P11 and P12, Spring Tide: July 31 - Aug. 3, 2000)

(Spring Tide)



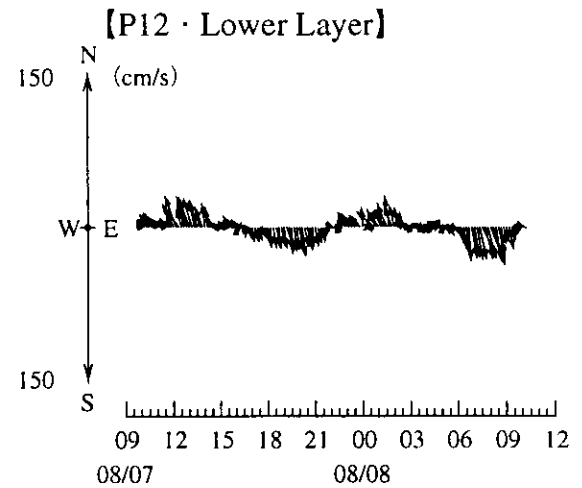
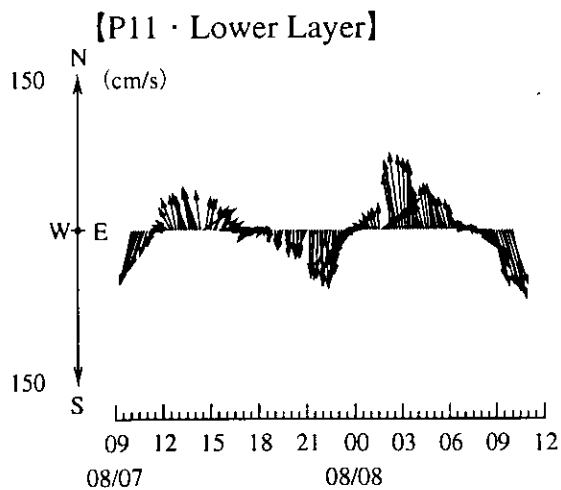
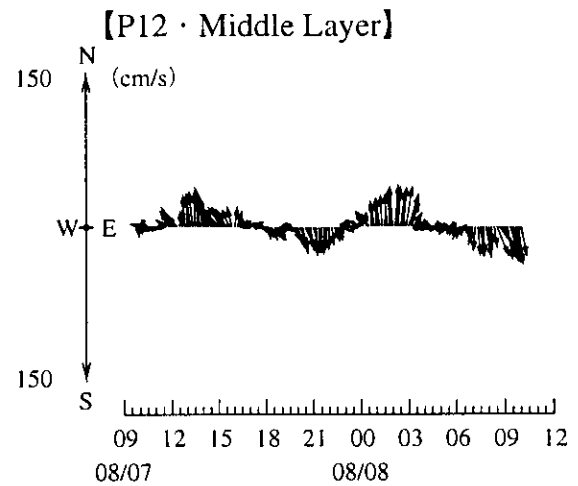
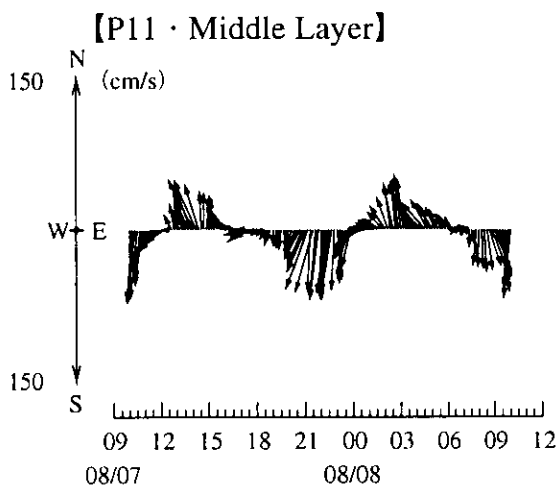
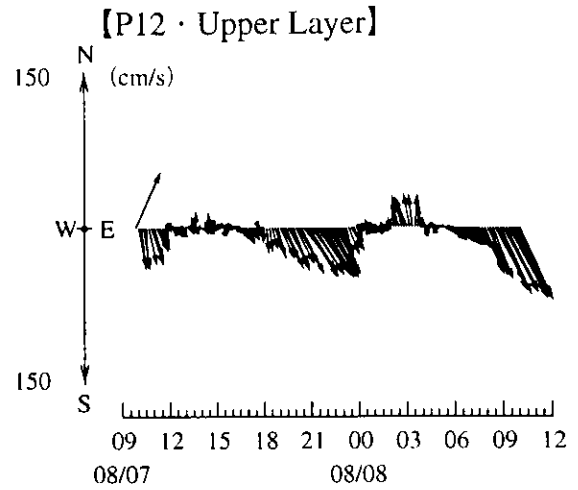
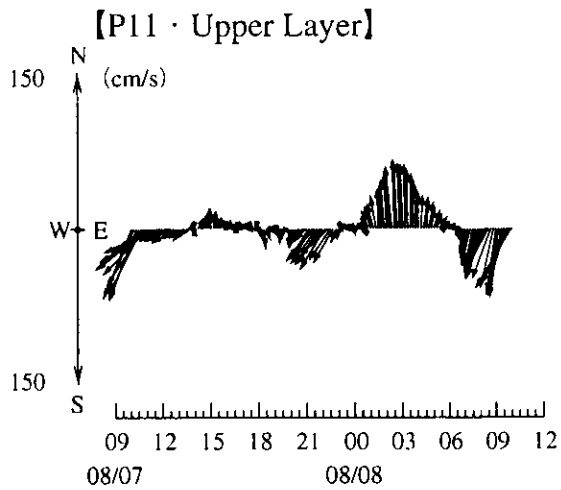
Time Series of Current Vector (P19 and P20, Spring Tide: July 31 · Aug. 3, 2000)

(Neap Tide)



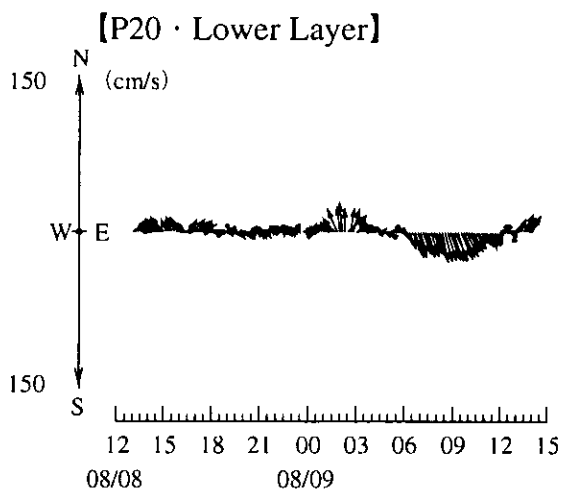
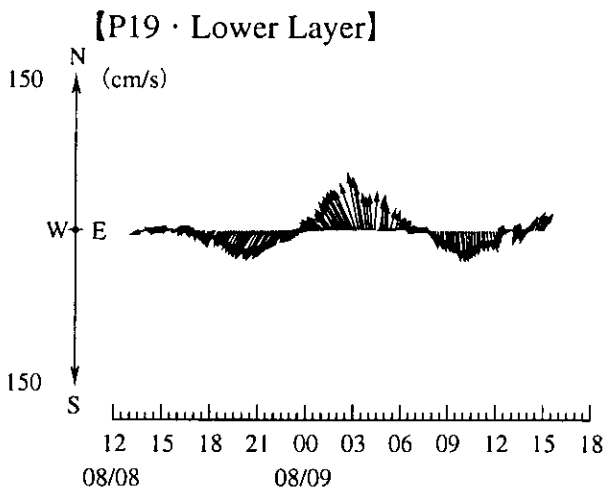
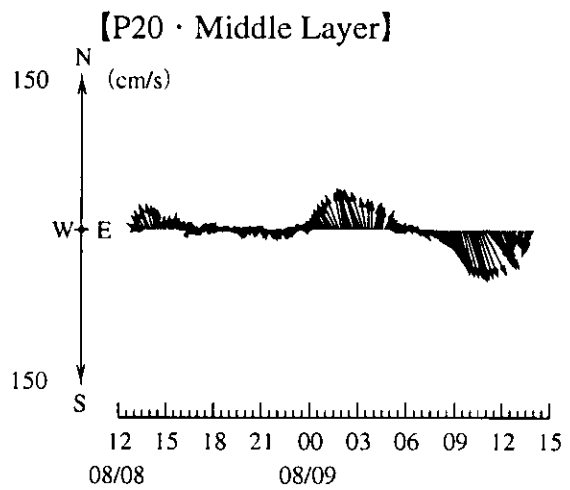
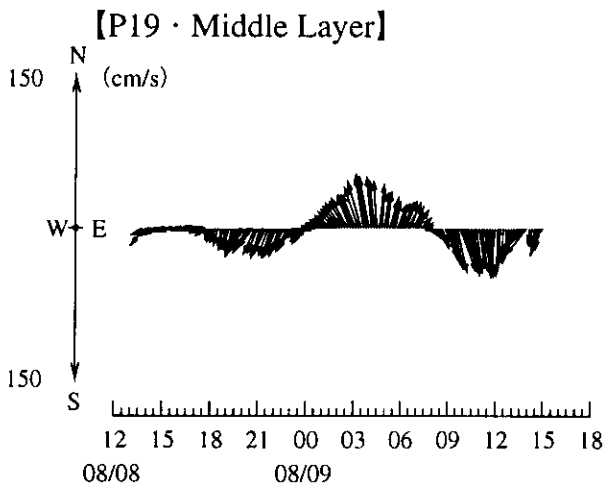
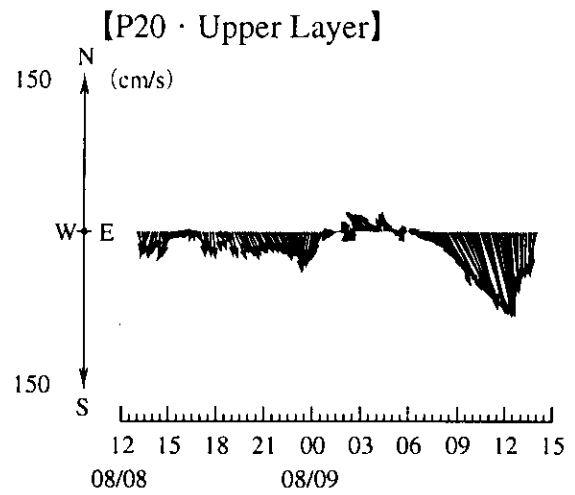
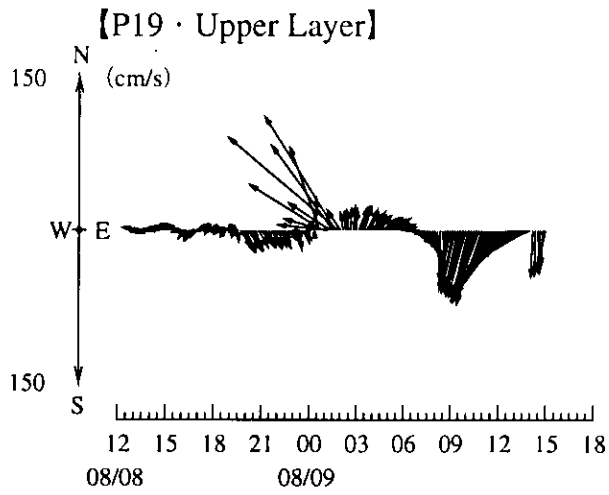
Time Series of Current Vector (P01 and P01, Neap Tide: Aug. 7 - Aug. 10, 2000)

(Neap Tide)



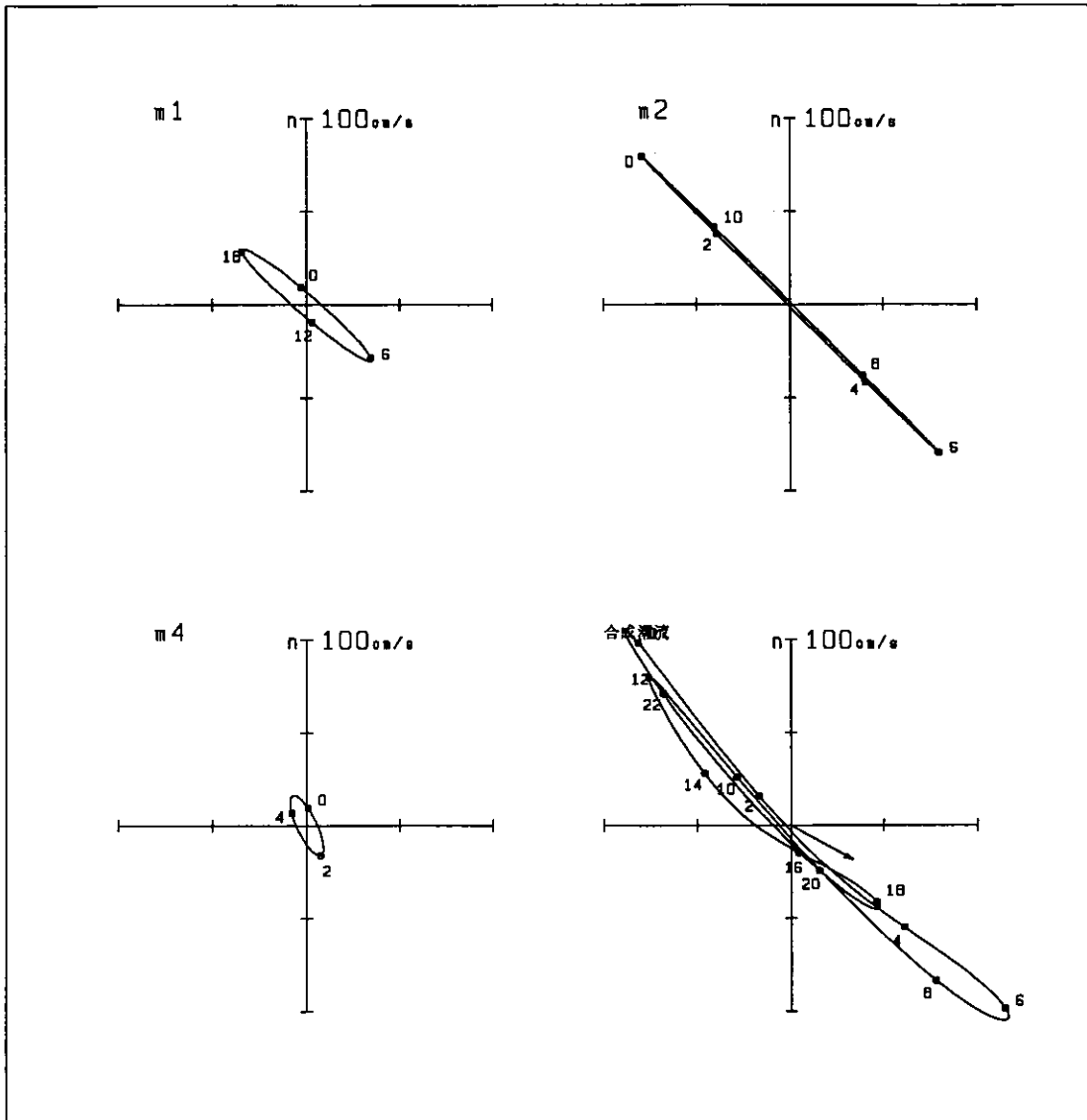
Time Series of Current Vector (P11 and P12, Neap Tide: Aug. 7 - Aug. 10, 2000)

(Neap Tide)



Time Series of Current Vector (P19 and P20, Neap Tide: Aug. 7 - Aug. 10, 2000)

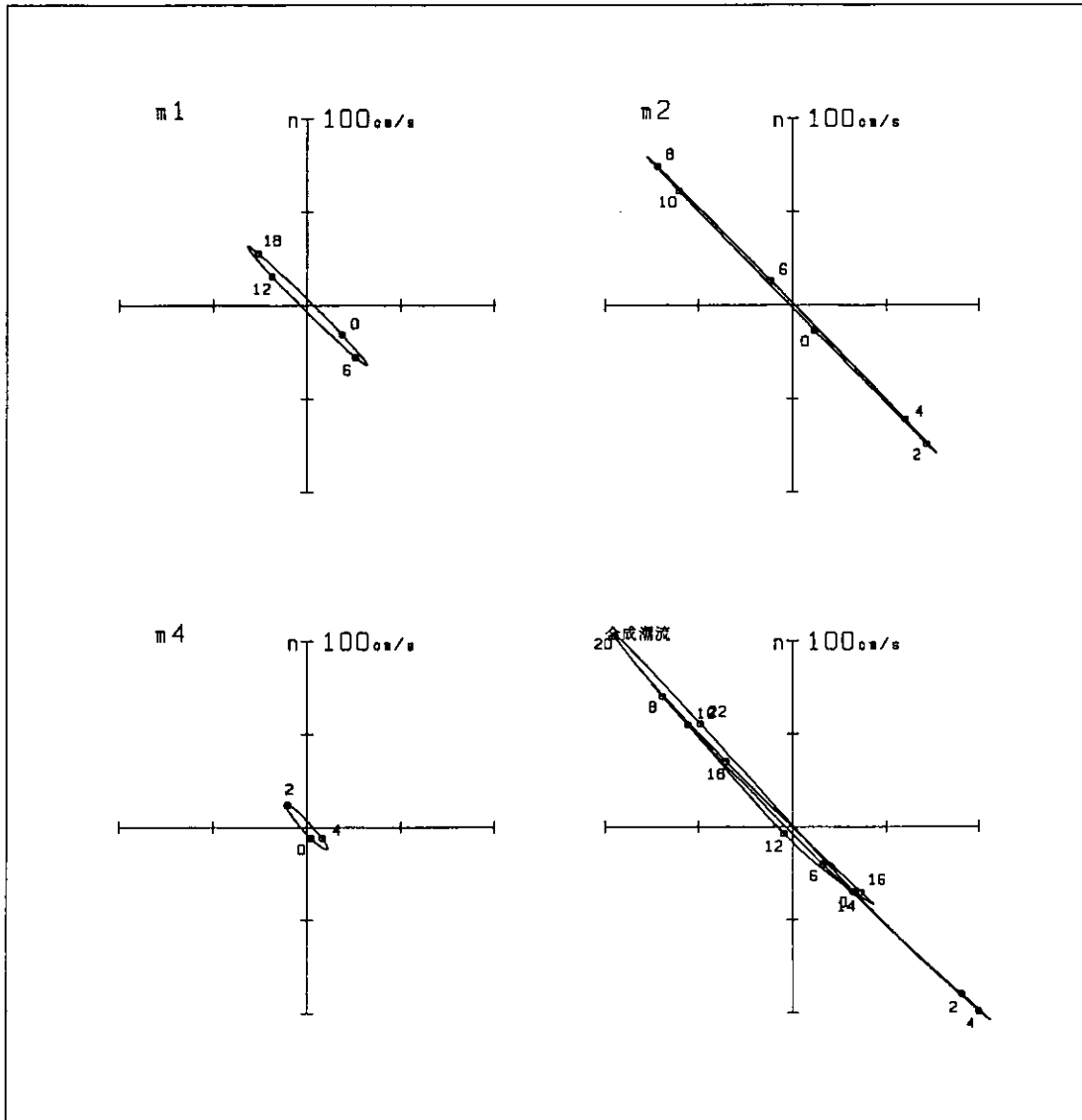
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/auto/ond4/exhd4/mori/ohina/data/Spring/S.p01.up.br

Current Ellipse (P01, Upper Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

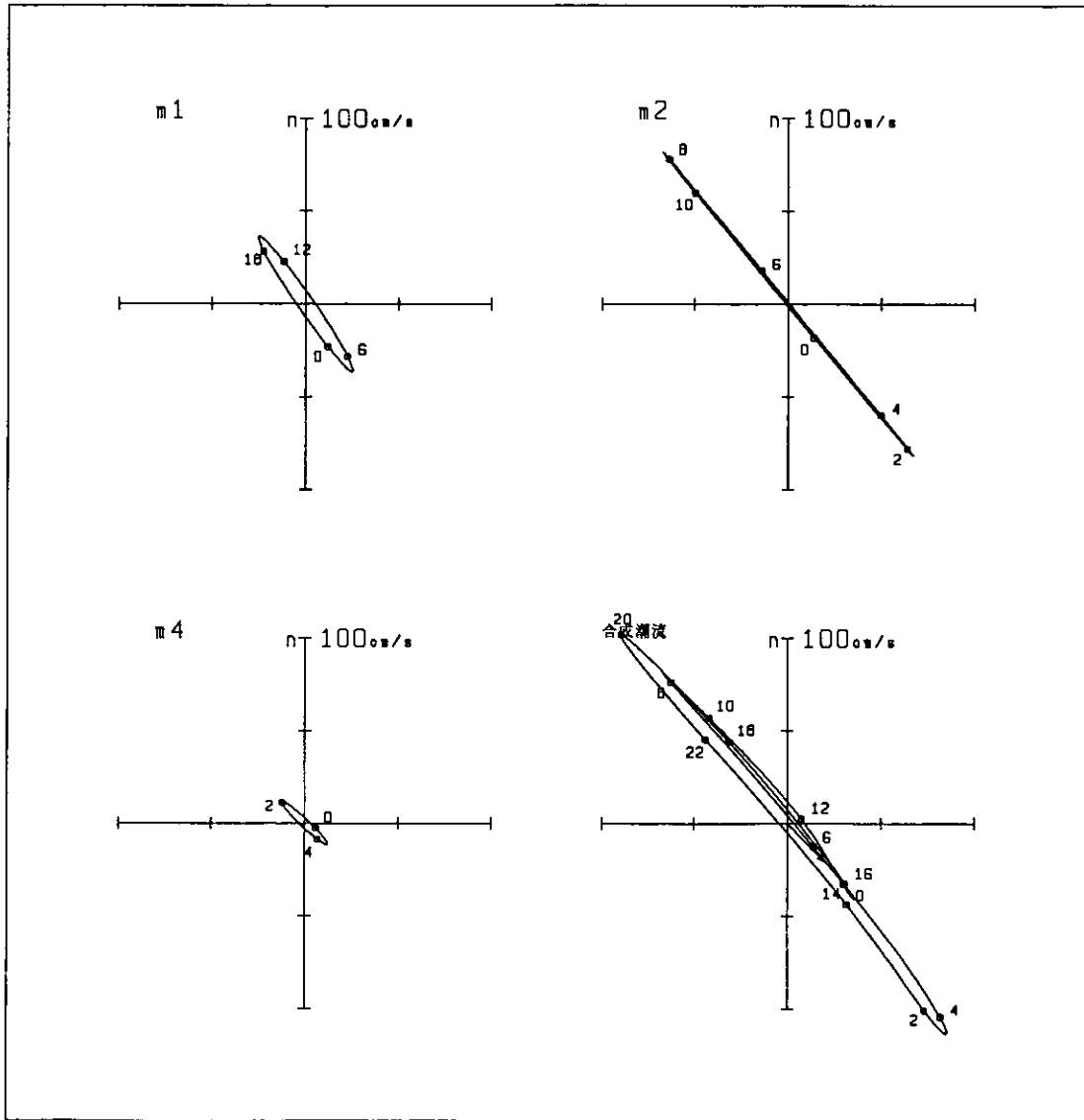
測点P01M, 海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



/auto/ond4/exhd4/mori/ohina/data/Spring/S.p01.md.br

Current Ellipse (P01, Middle Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

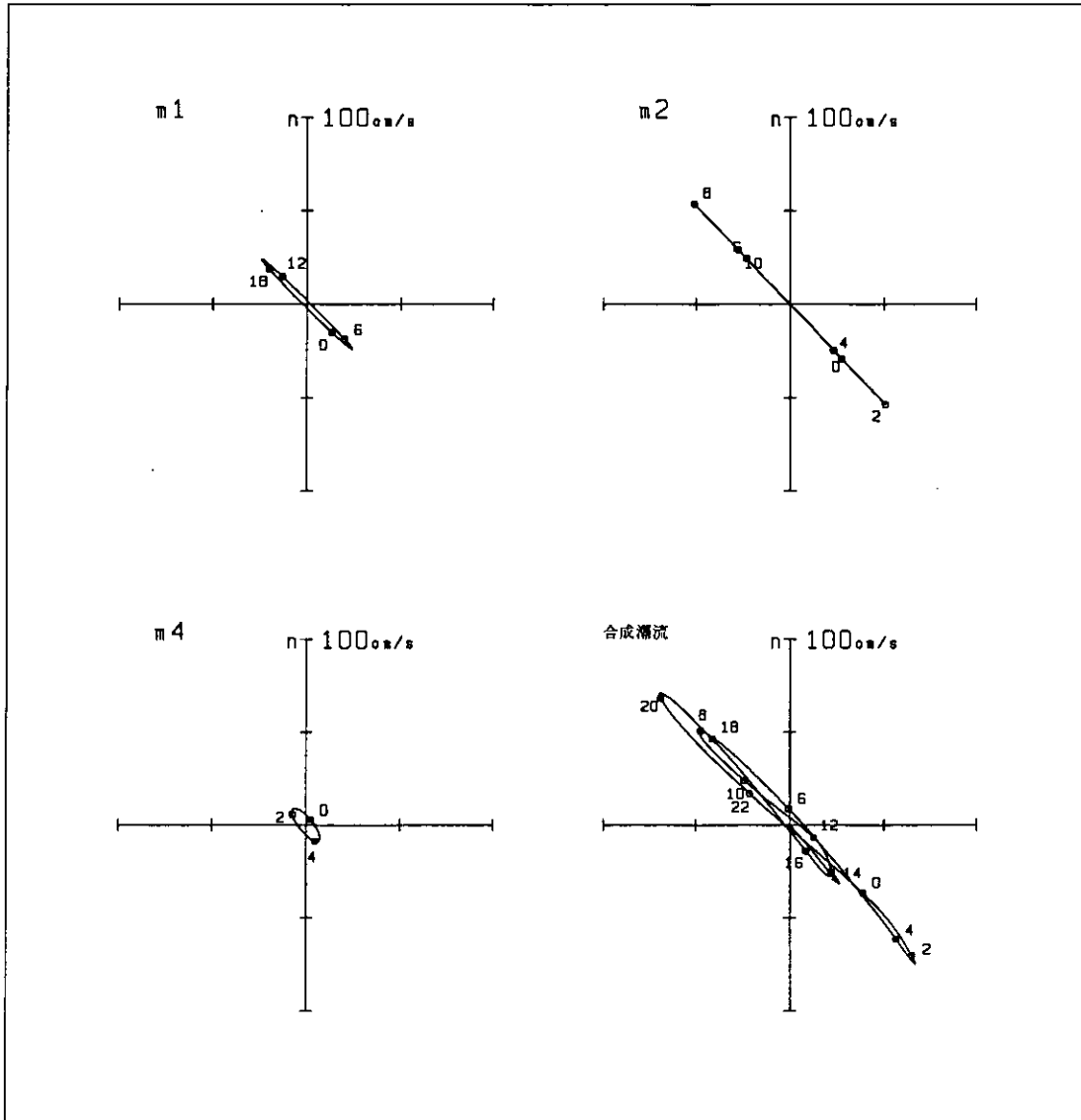
測点P01B, 海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



/auto/ond4/exhd4/mori/china/data/Spring/S.p01.lv.br

Current Ellipse (P01, Bottom Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

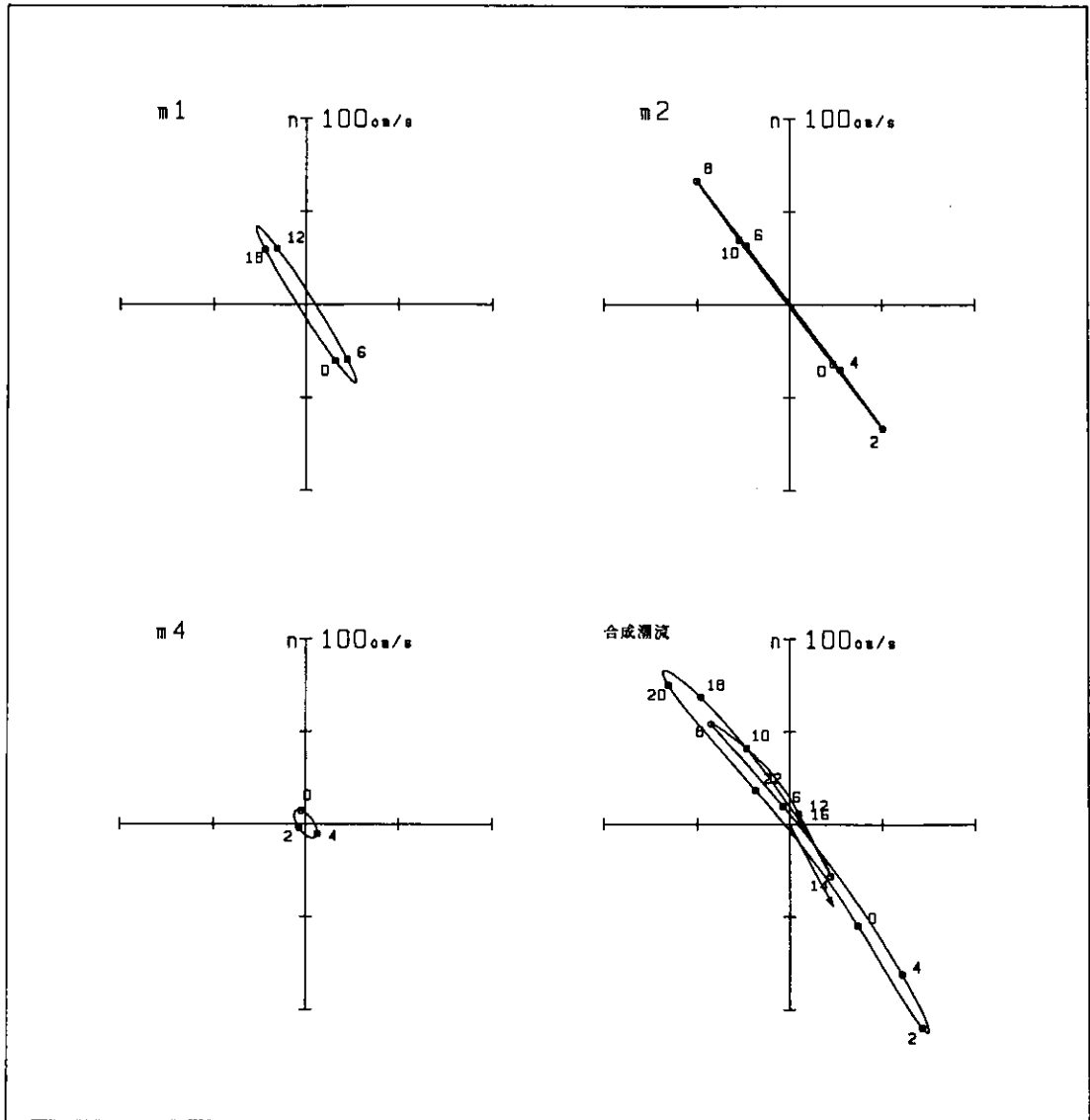
測点P04U, 海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



/auto/ond4/exhd4/mori/ohina/date/Spring/S.p04.up.br

Current Ellipse (P04, Upper Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

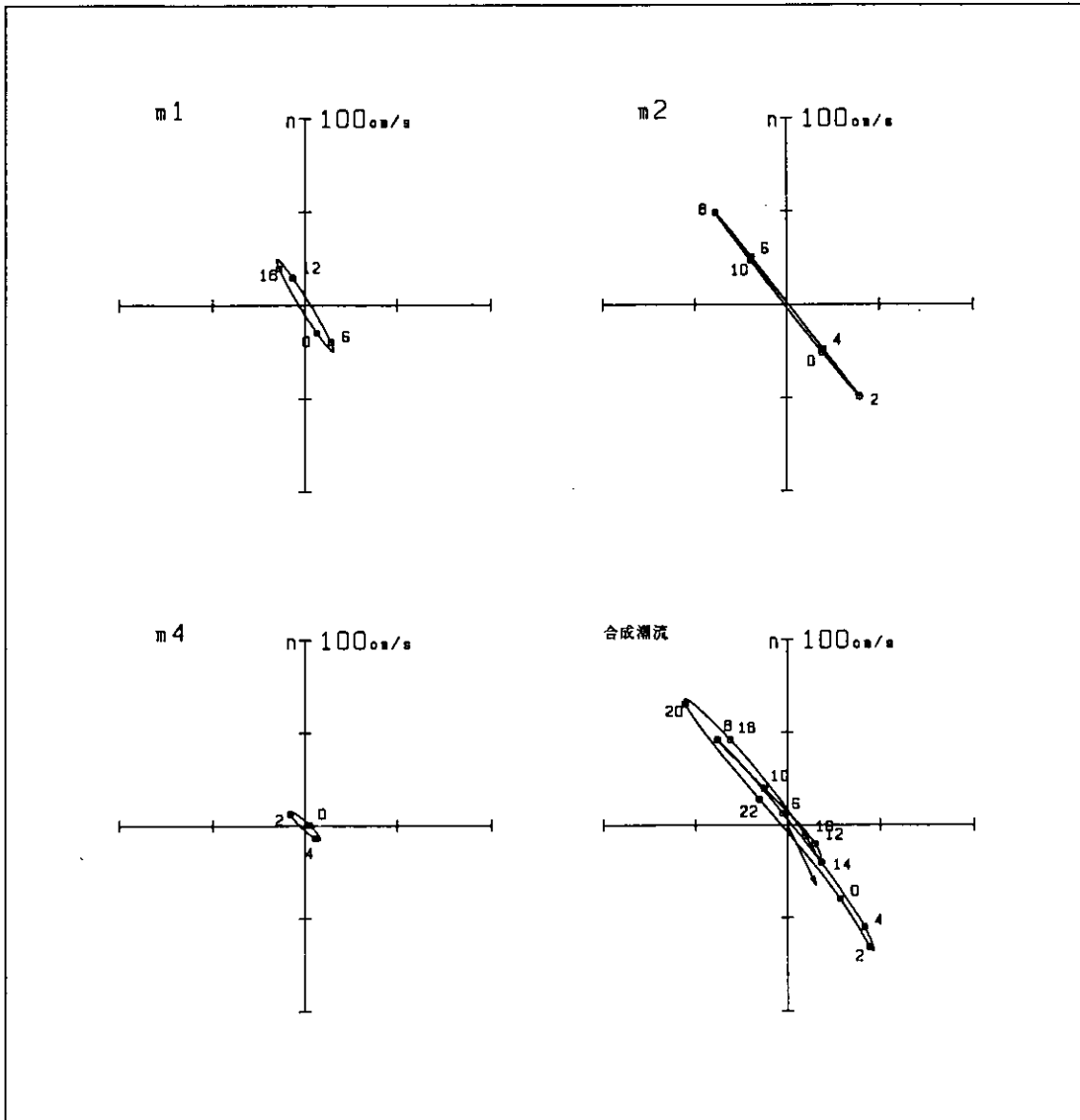
測点P04M, 海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



/auto/ond4/exhd4/mor1/ohina/data/Spring/S.p04.md.br

Current Ellipse (P04, Middle Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

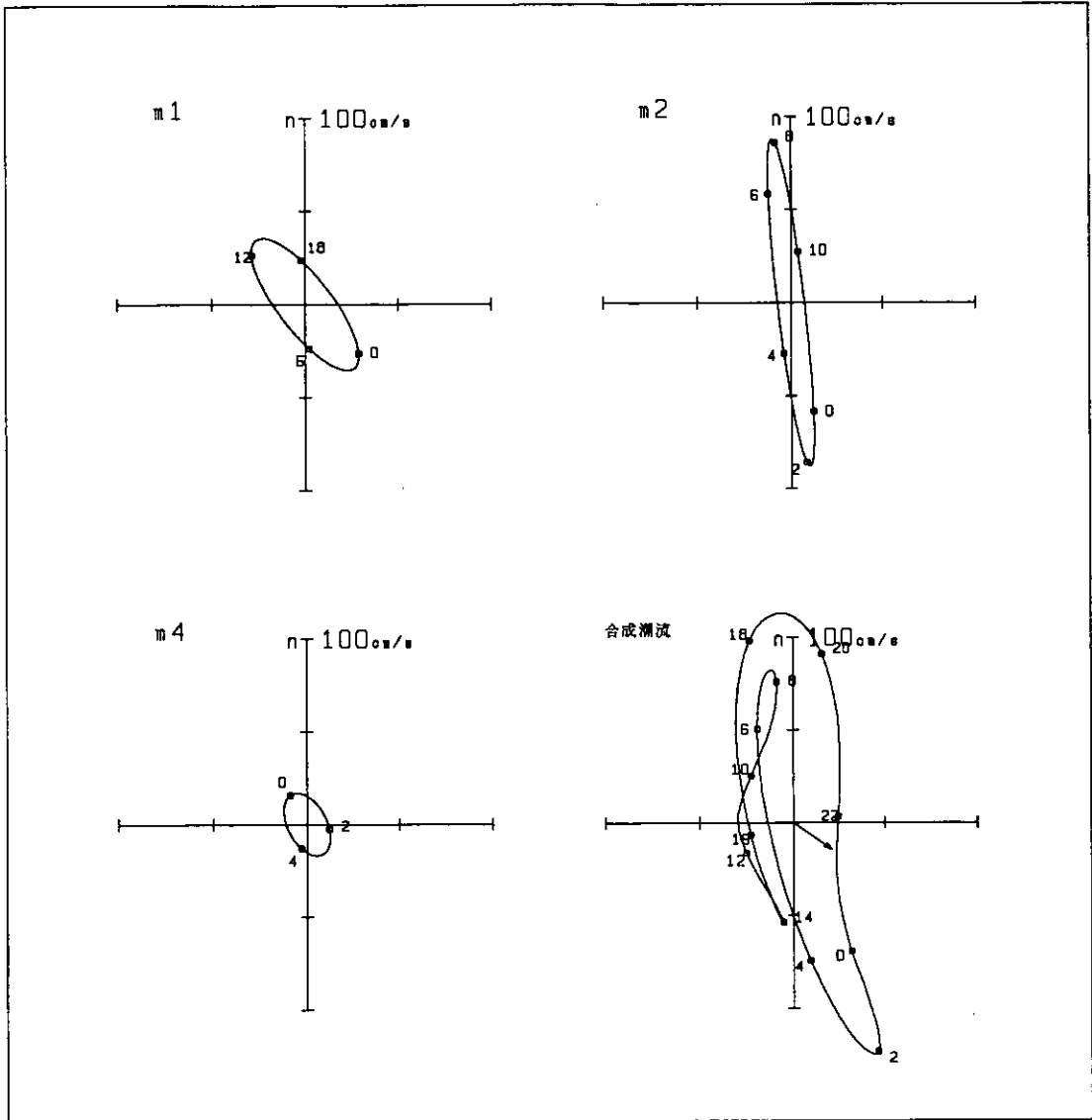
测点P04B, 海面下 0.00m. 解析期间 2000.8.2.~2000.8.3.



/auto/ond4/exhd4/mori/ohina/data/Spring/5.p04.lv.br

Current Ellipse (P04, Bottom Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)

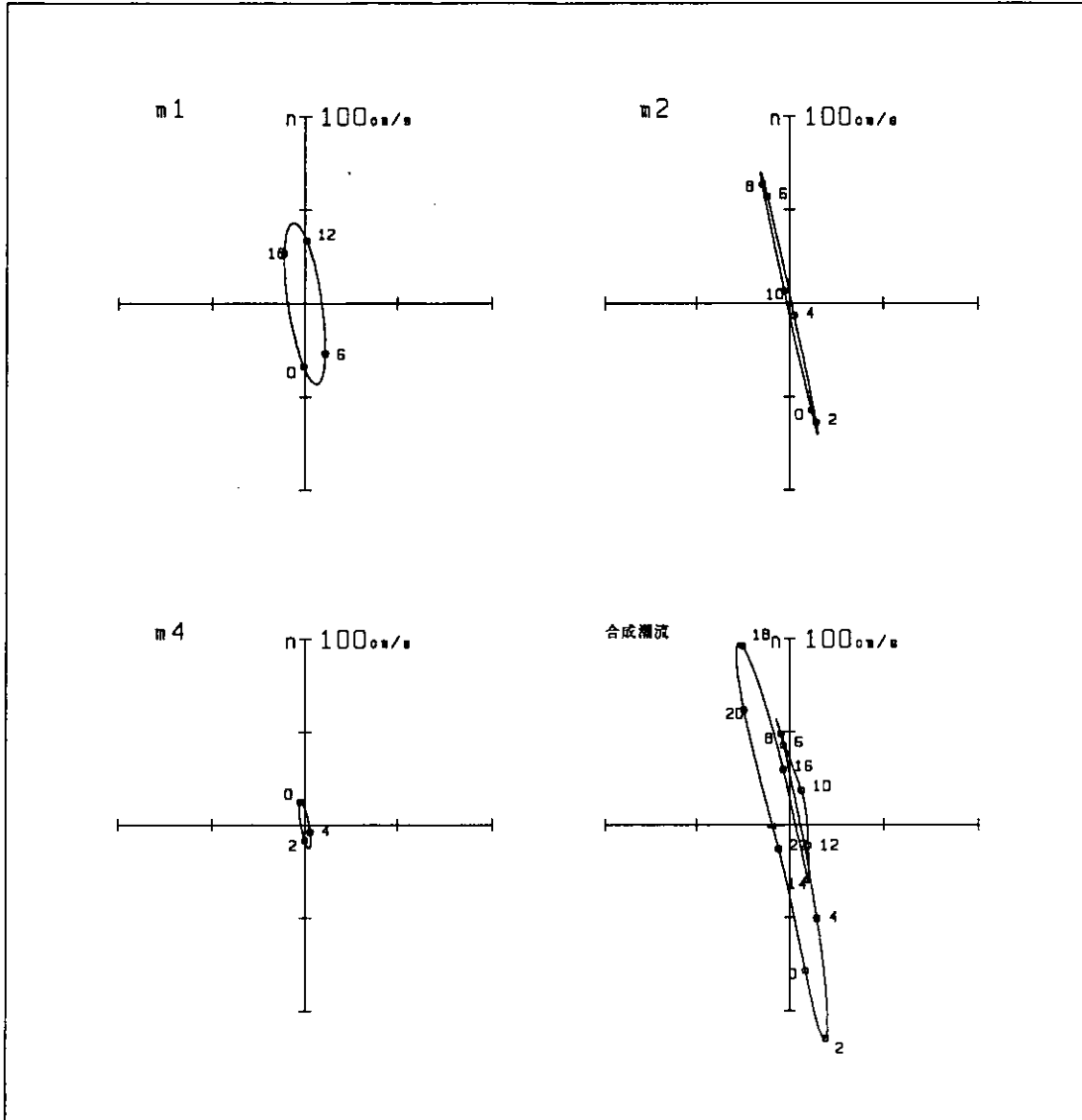
測点P11U, 海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.



/auto/bnd4/exhd4/mori/ohina/data/Spring/S.p11.up.br

Current Ellipse (P11, Upper Layer, Spring Tide: July 31 - Aug. 1, 2000)

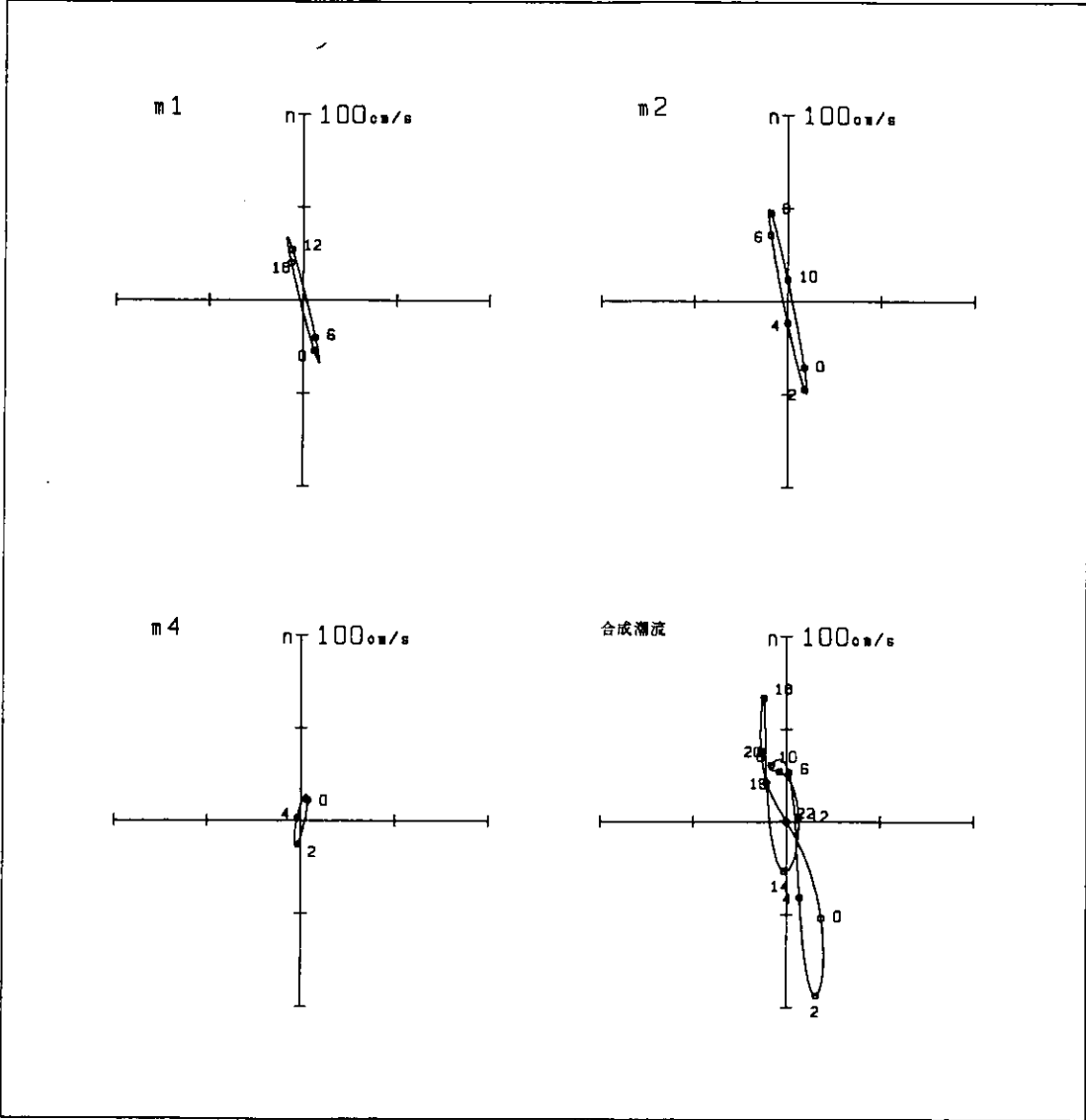
測点P11M, 海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.



/auto/and4/exhd4/mori/ohina/data/Spring/S.p11.wd.br

Current Ellipse (P11, Middle Layer, Spring Tide: July 31 – Aug. 1, 2000)

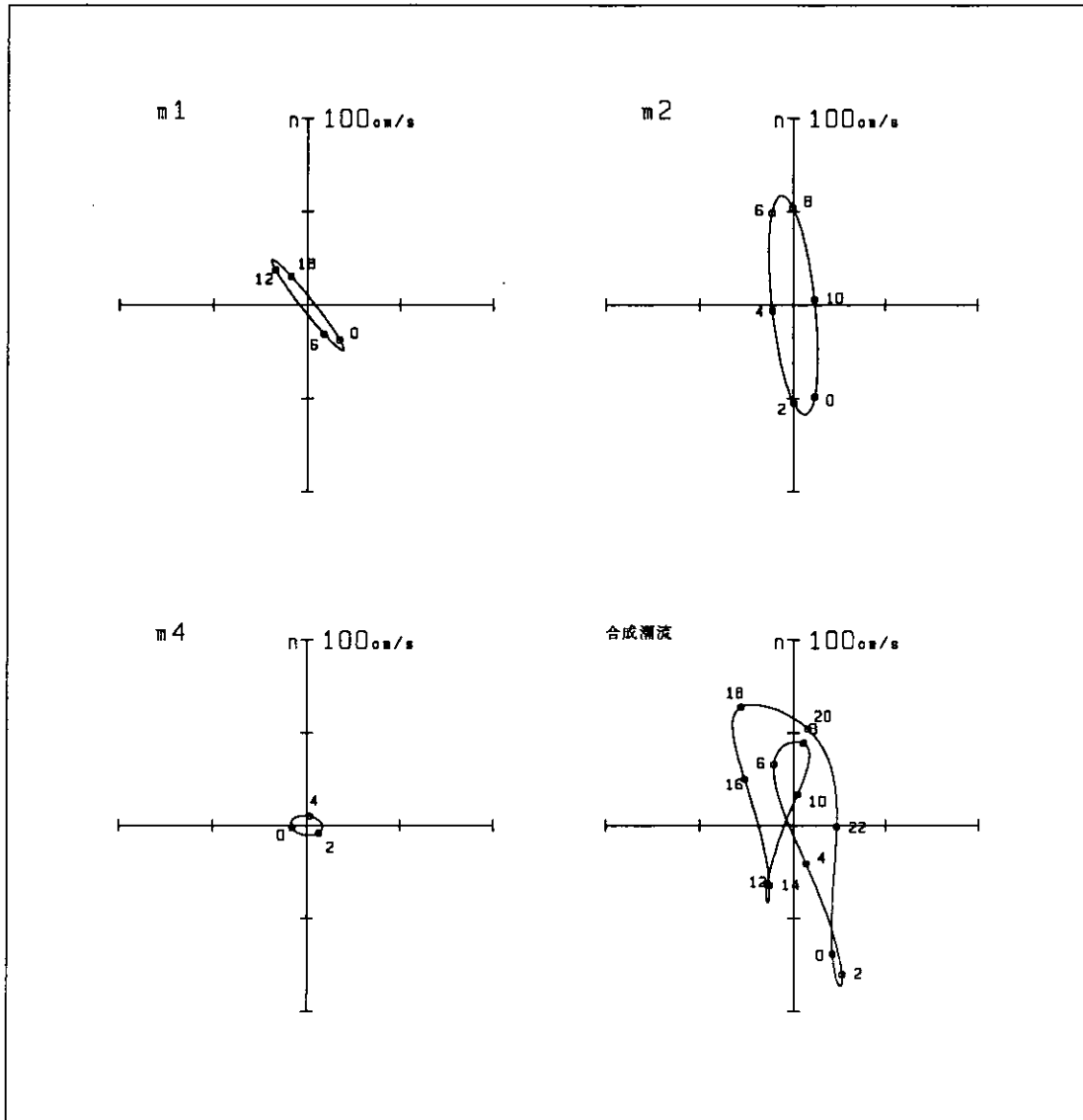
测点P11B, 海面下 0.00m. 解析期间 2000.7.31.~2000.8.1.



/auto/ond4/exhd4/mori/ohine/data/Spring/S.p11.lv.br

Current Ellipse (P11, Bottom Layer, Spring Tide: July 31 – Aug. 1, 2000)

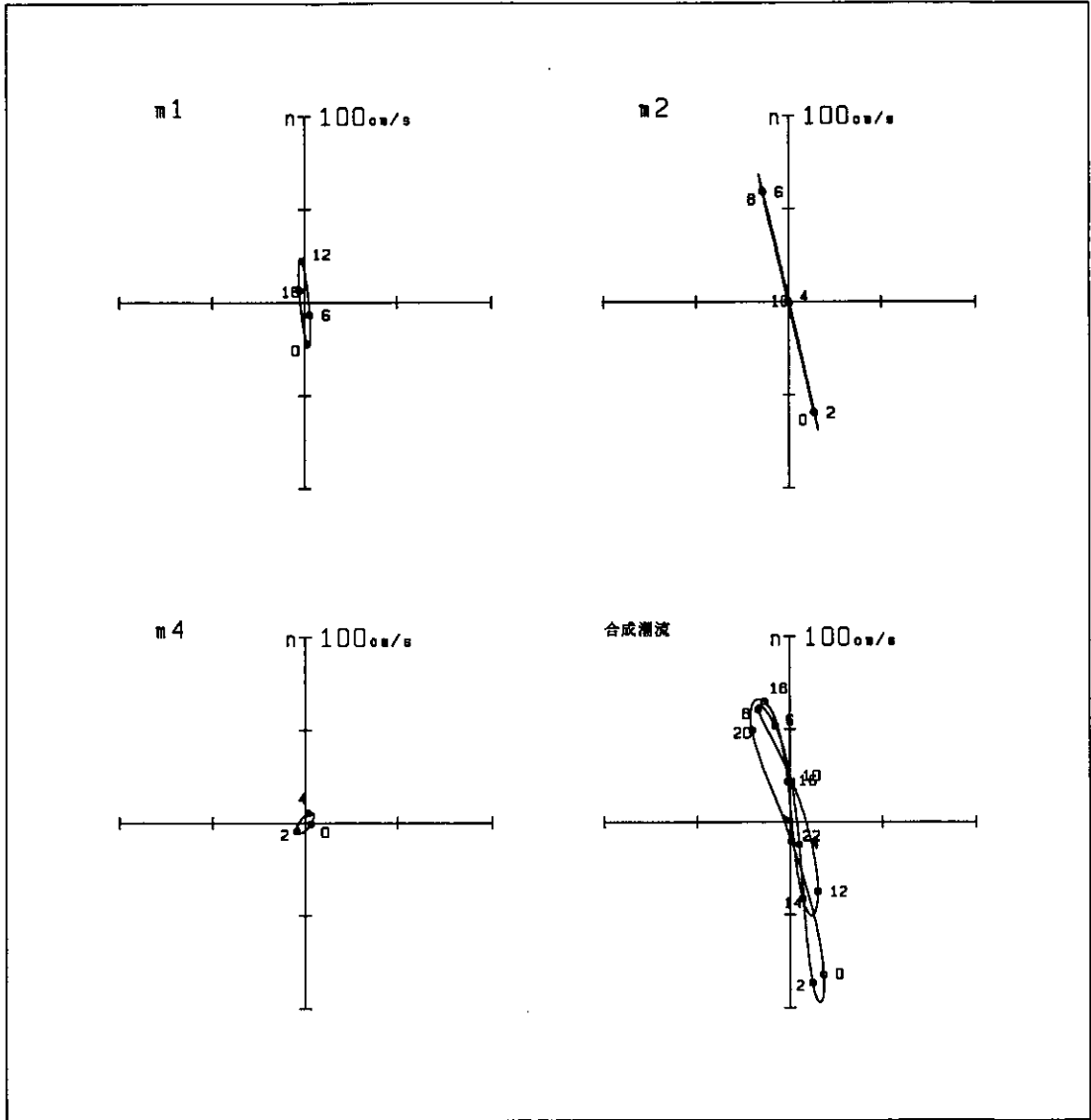
測点P12U, 海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.



/auto/ond4/exhd4/moni/ohina/data/Spring/S.p12.up.br

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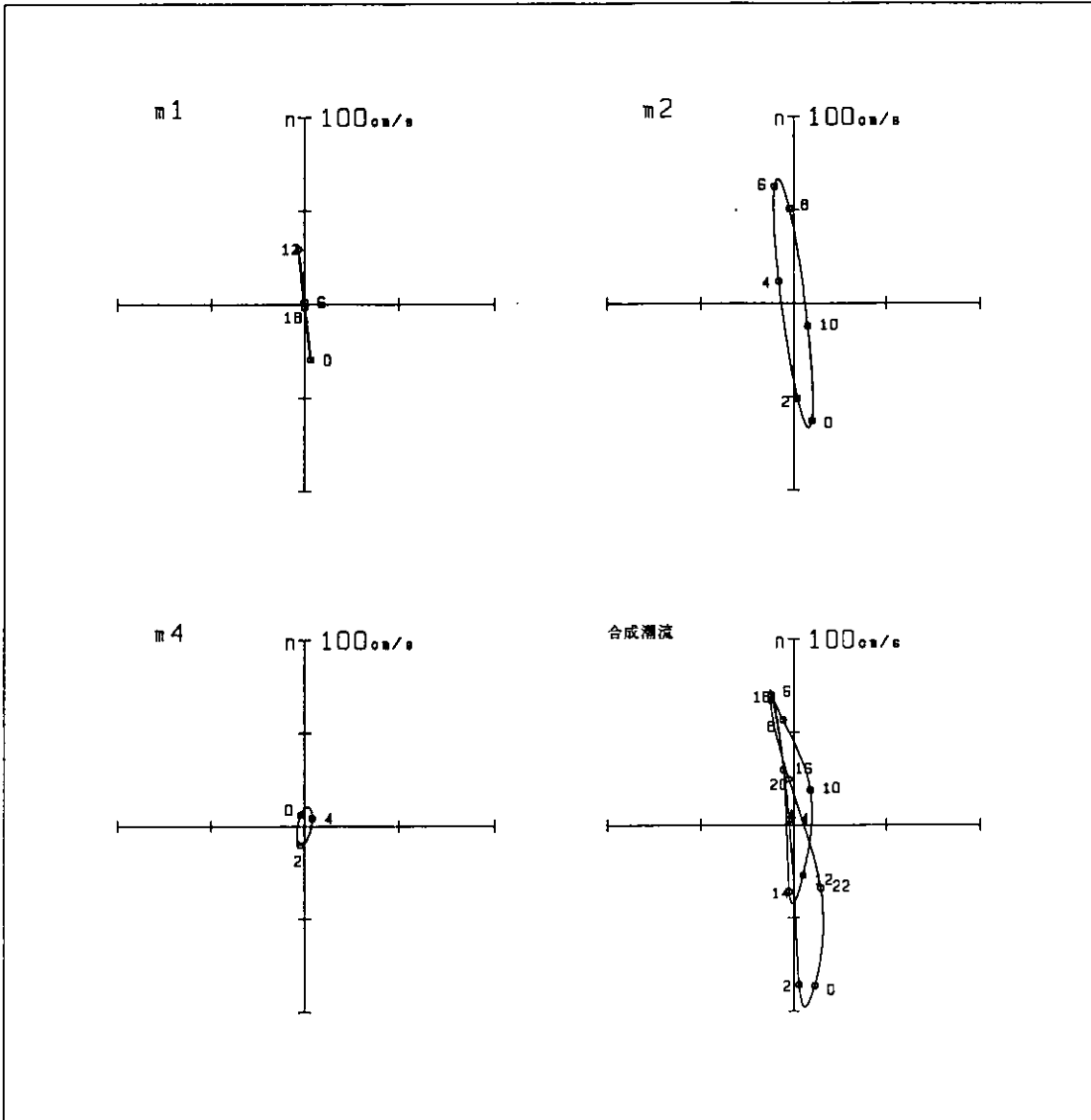
测点P12M, 海面下 0.00m. 解析期间 2000.7.31.~2000.8.1.



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Current Ellipse (P12, Middle Layer, Spring Tide: July 31 - Aug. 1, 2000)

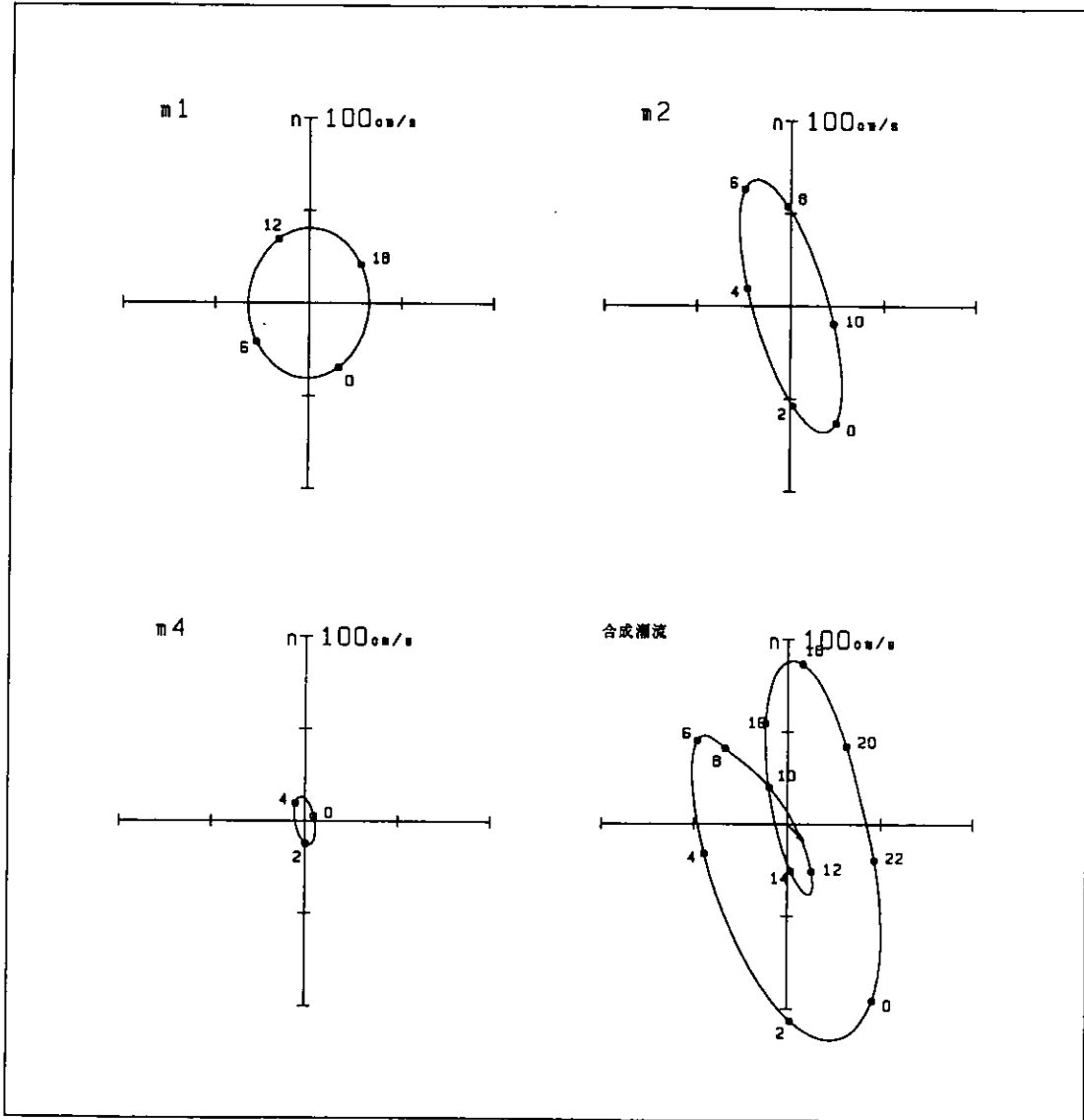
測点P128, 海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.



/auto/ond4/exhd4/mori/ohina/data/Spring/S.p12.lv.br

Current Ellipse (P12, Bottom Layer, Spring Tide: July 31 – Aug. 1, 2000)

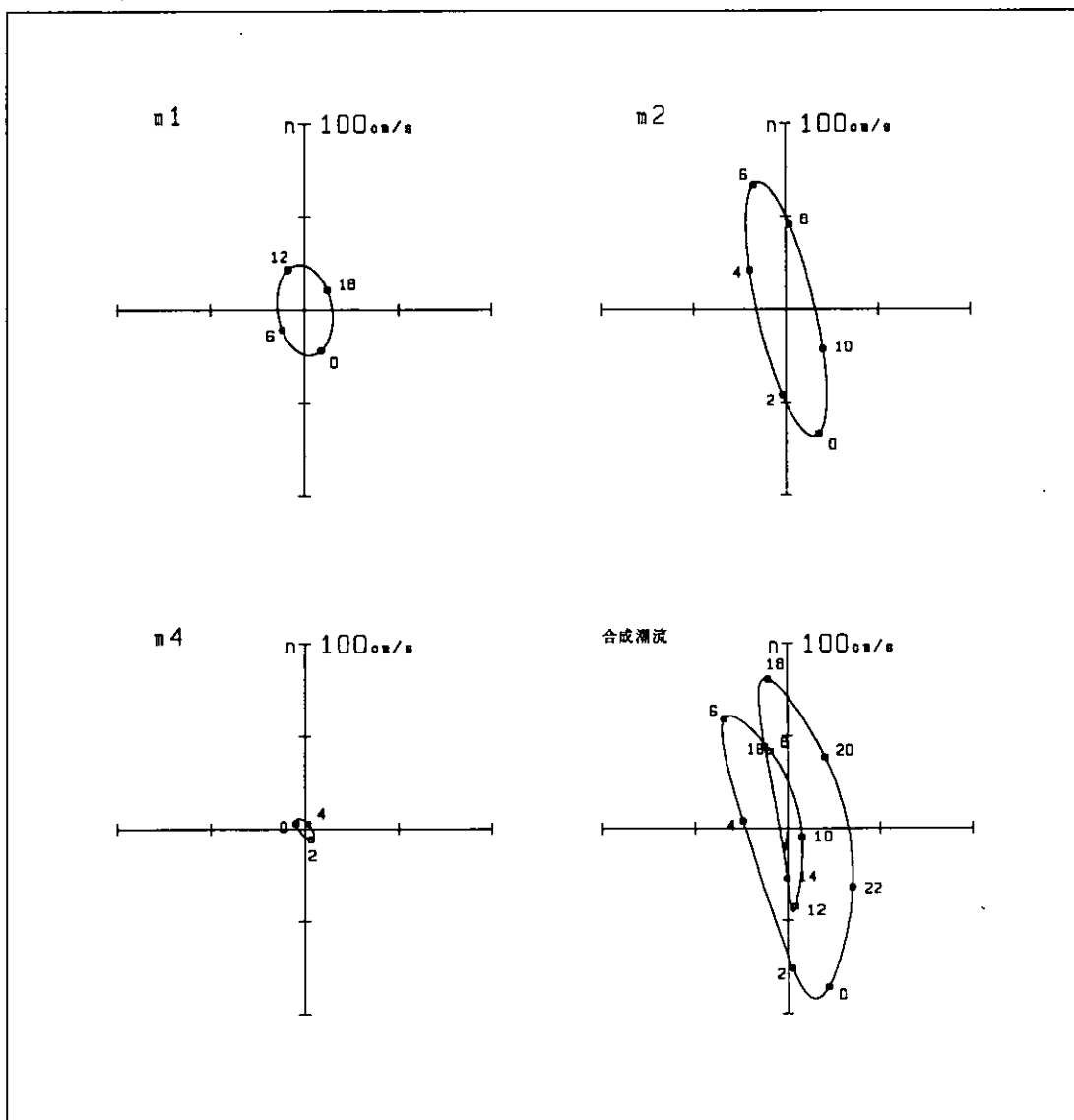
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/auto/ond4/exhd4/mori/china/data/Spring/5.p19.up.br

Current Ellipse (P19, Upper Layer, Spring Tide: Aug. 1 - Aug. 2, 2000)

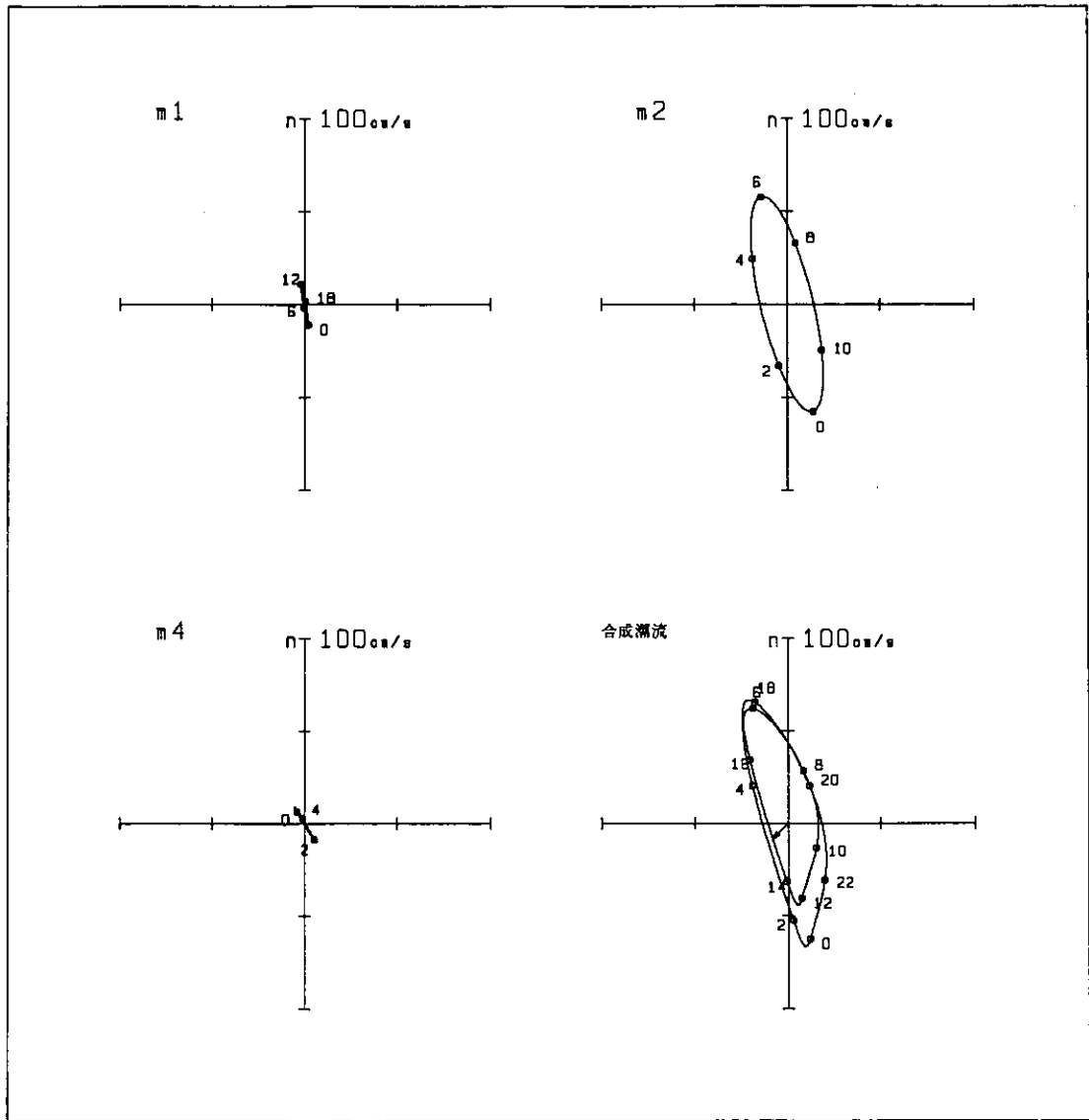
测点P19M, 海面下 0.00m. 解析期间 2000.8.1.~2000.8.2.



/auto/ond4/exhd4/mori/china/data/Spring/S.p19.wd.br

Current Ellipse (P19, Middle Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

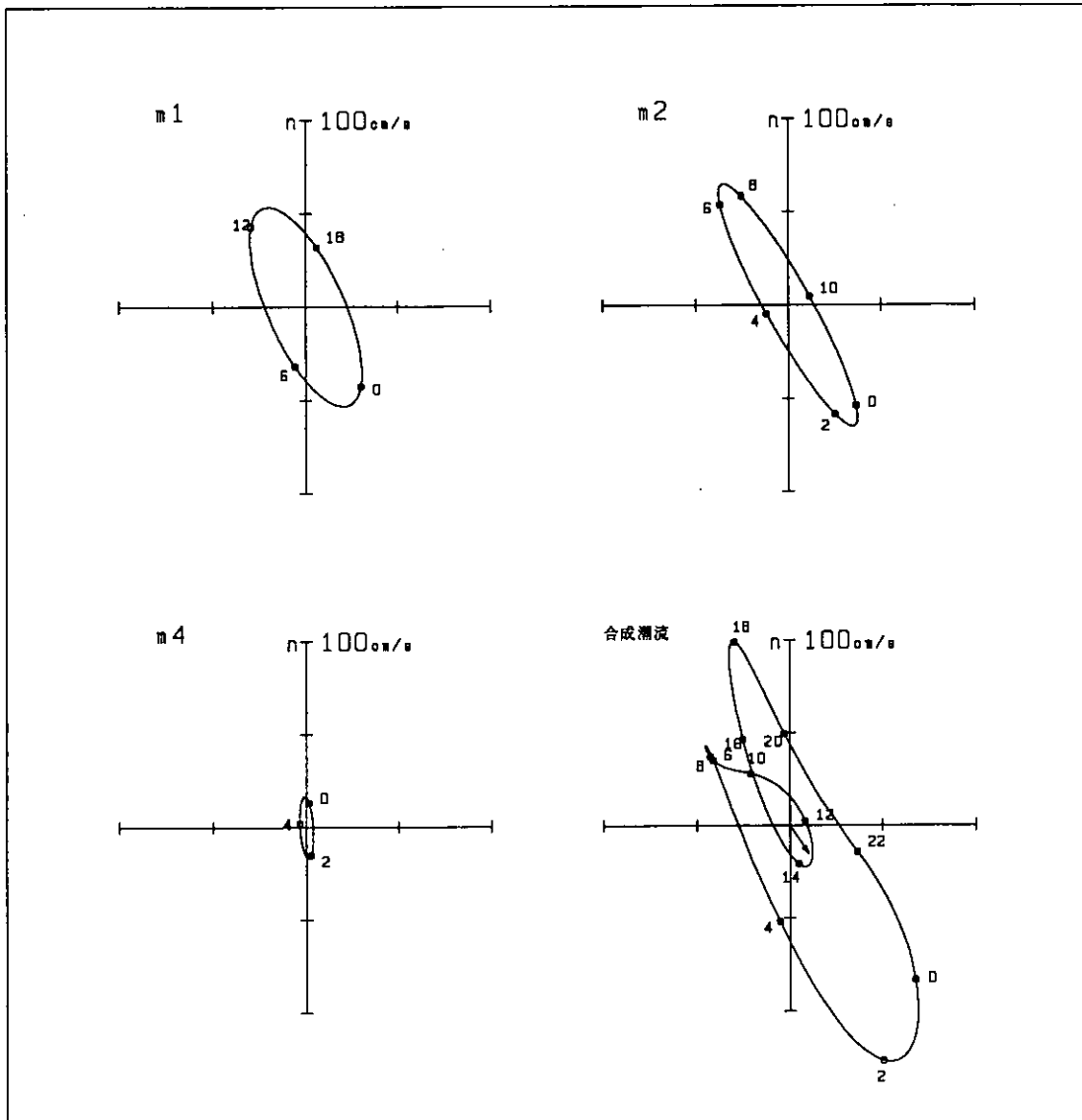
测点P19B, 海面下 0.00m. 解析期间 2000.8.1.~2000.8.2.



/auto/ond4/exhd4/morl/ohina/data/Spring/5.p19.lv.br

Current Ellipse (P19, Bottom Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

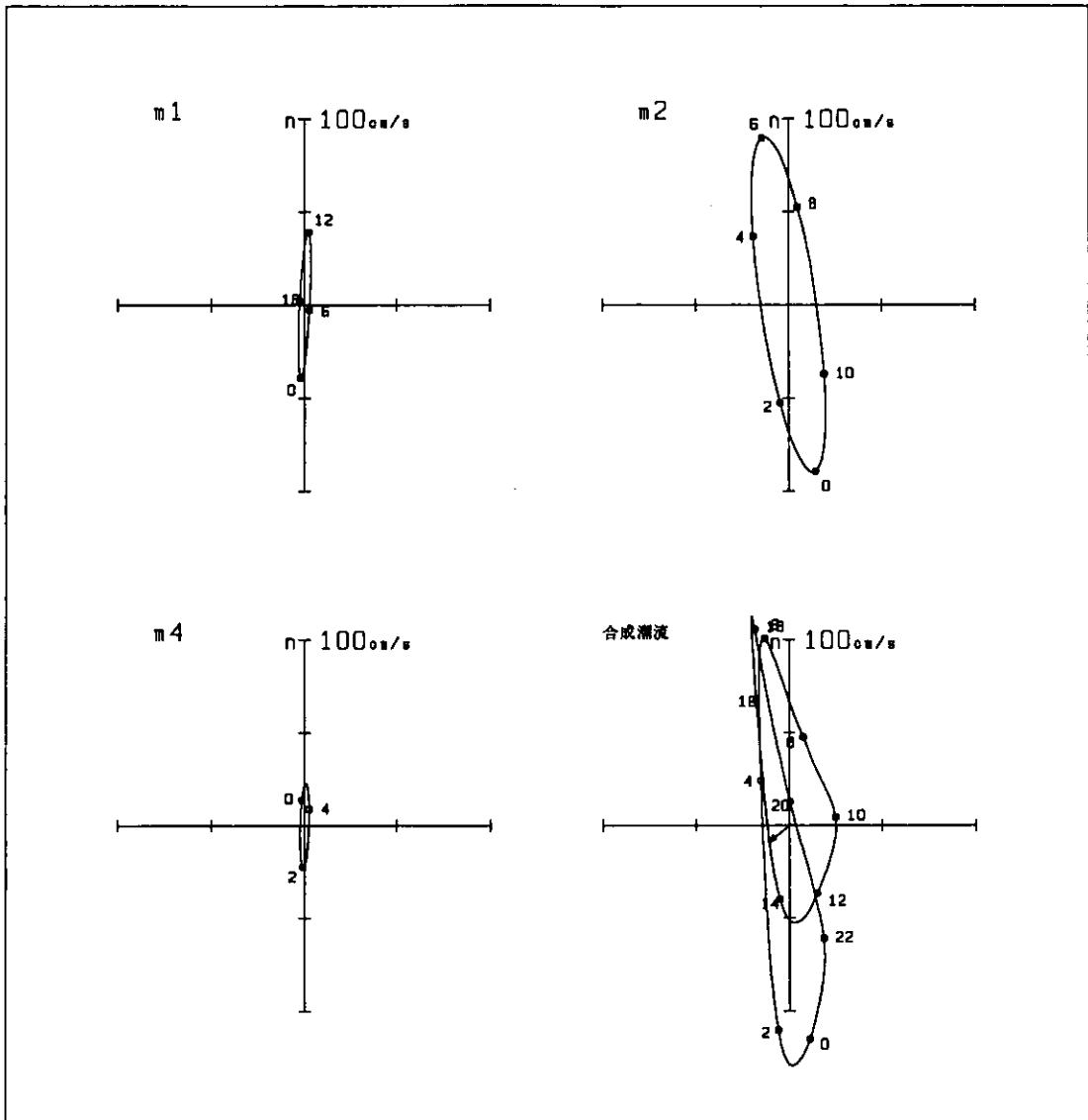
測点P20U, 海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.



/auto/ond4/exhd4/morl/china/data/Spring/S.p20.up.br

Current Ellipse (P20, Upper Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

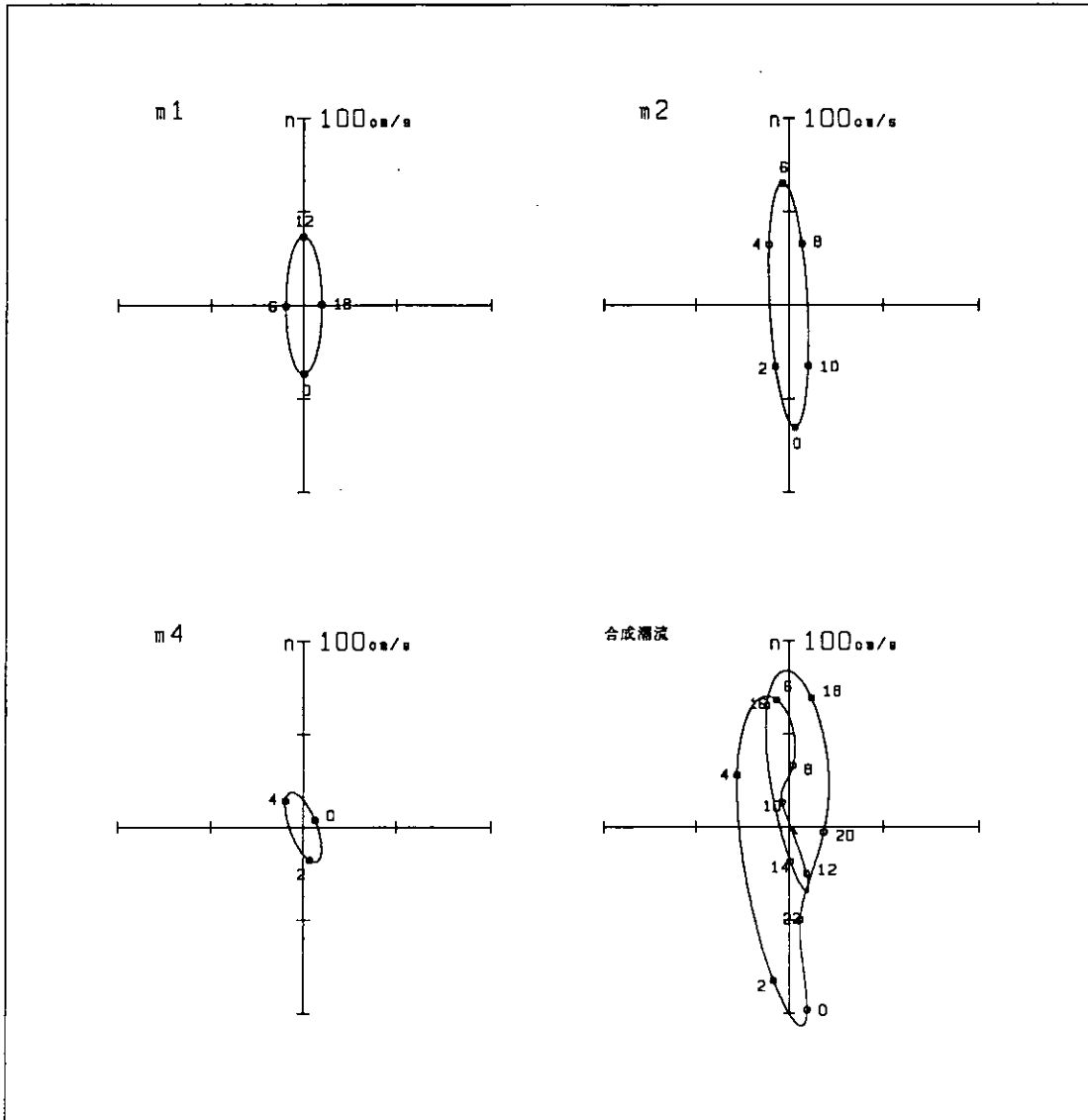
测点P20M, 海面下 0.00m. 解析期间 2000.8.1.~2000.8.2.



/auto/ond4/axhd4/worl/china/data/Spring/S.p20.md.br

Current Ellipse (P20, Middle Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

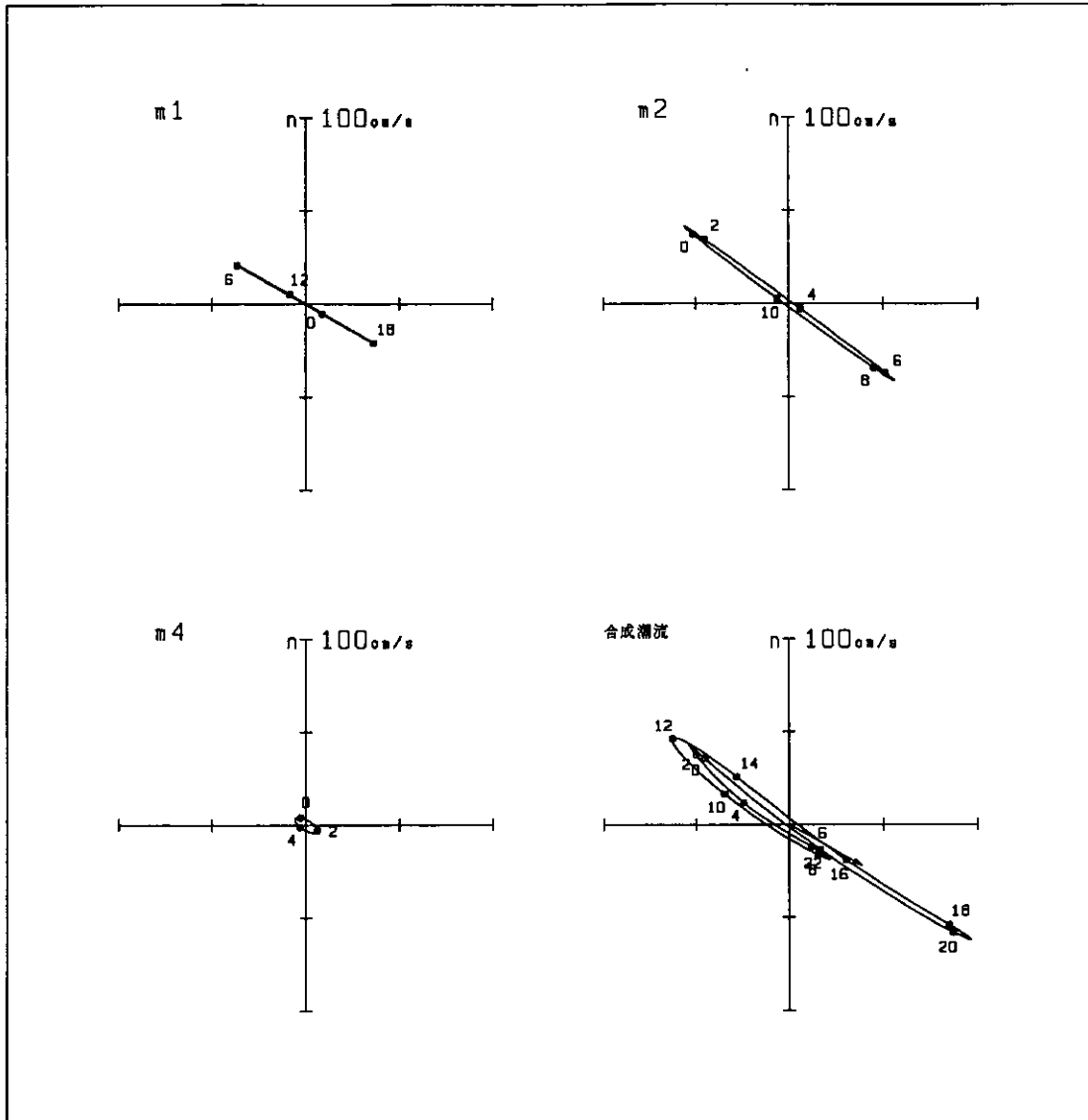
测点P20B, 海面下 0.00m. 解析期间 2000.8.1.~2000.8.2.



/auto/and4/exhd4/mori/ohina/data/Spring/5.p20.lv.br

Current Ellipse (P20, Bottom Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

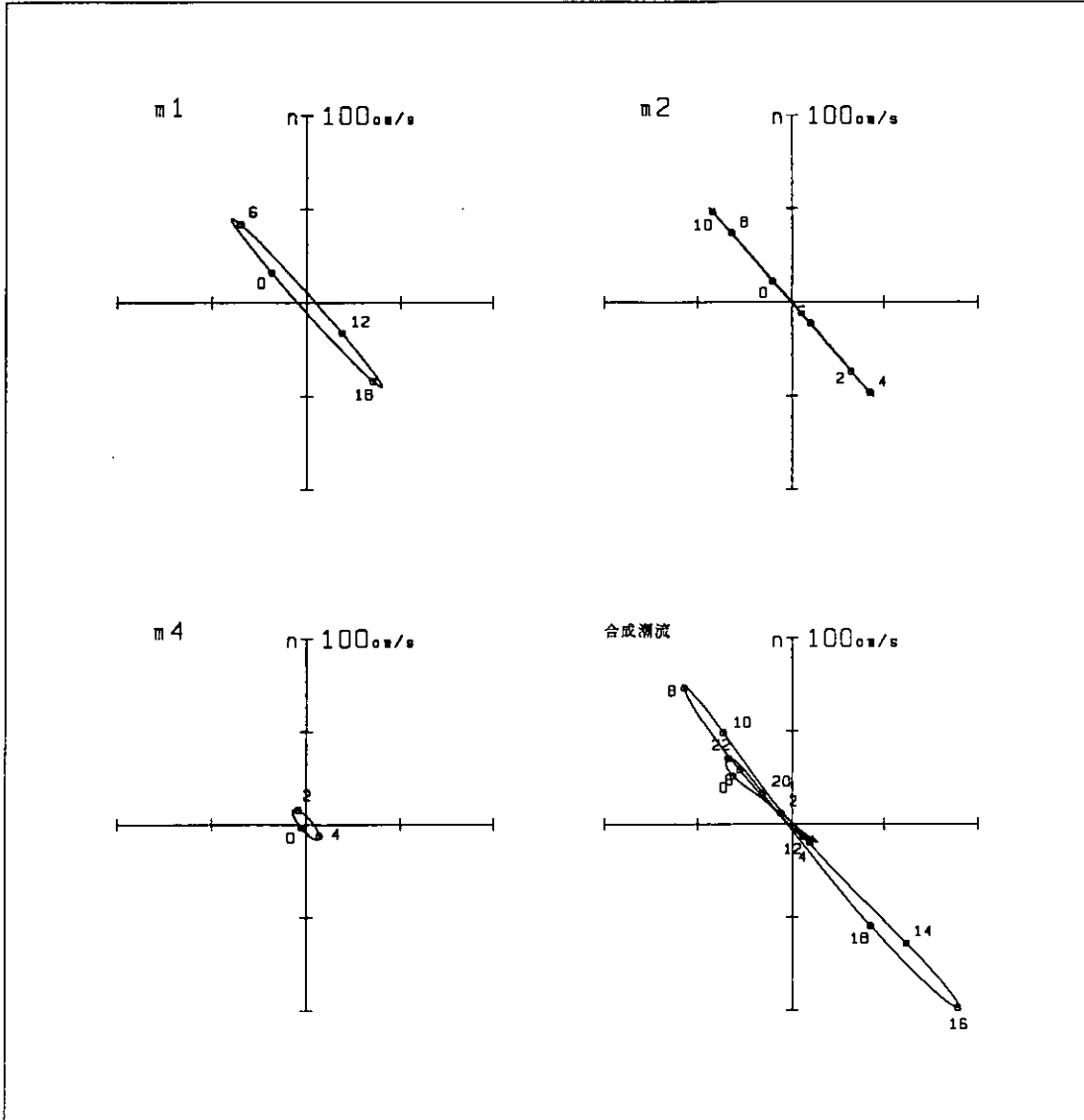
測点P01U, 海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.



/auto/ond4/exhd4/mori/ohina/data/Neap/N.p01.up.br

Current Ellipse (P01, Upper Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

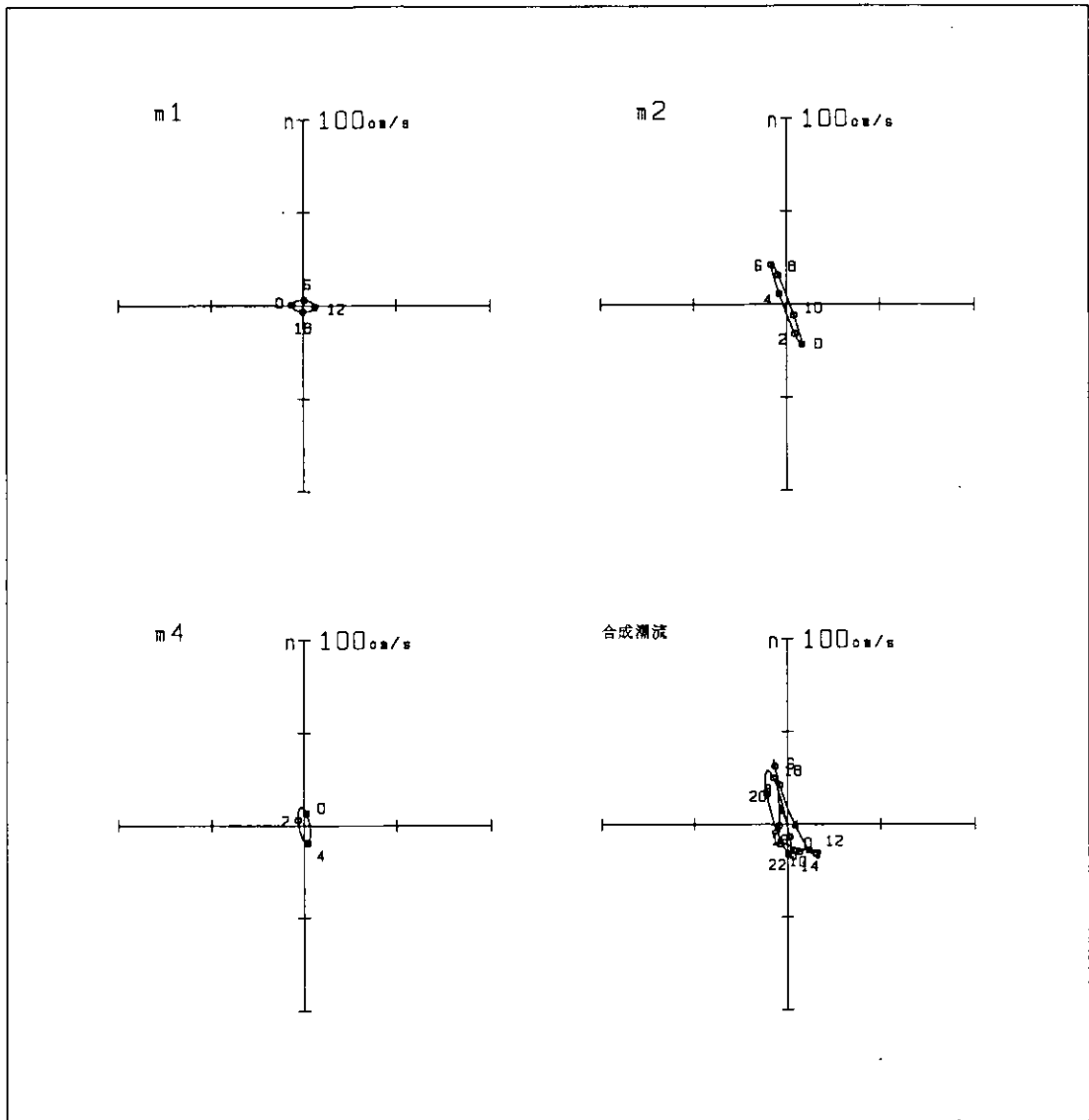
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/auto/ond4/exhd4/mori/china/data/Neap/N.p01.md.br

Current Ellipse (P01, Middle Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

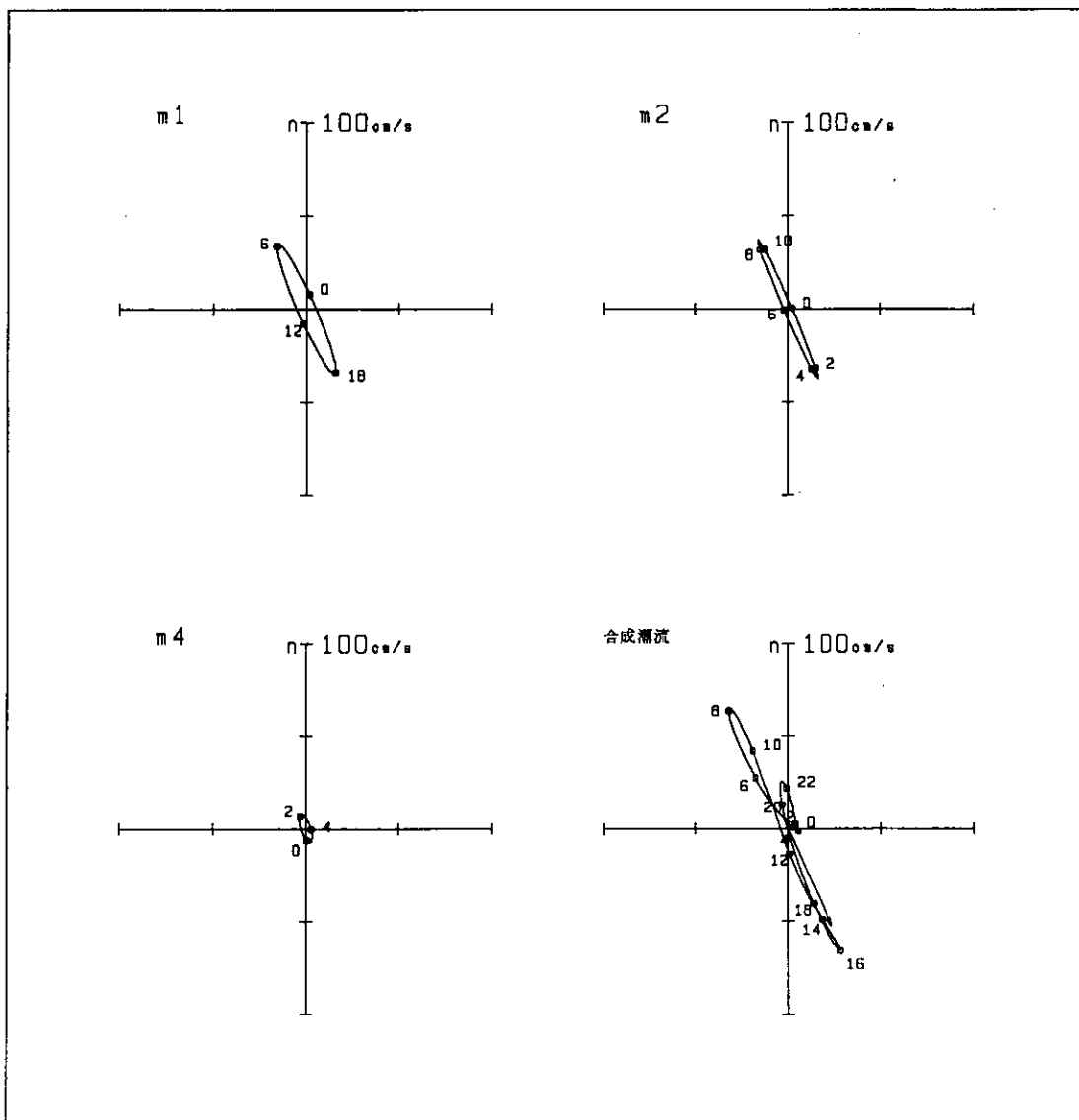
測点P01B, 海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.



/auto/ond4/exhd4/wor1/china/data/Neap/N.p01.lv.br

Current Ellipse (P01, Bottom Layer, Neap Tide: Aug. 9 - Aug. 10, 2000)

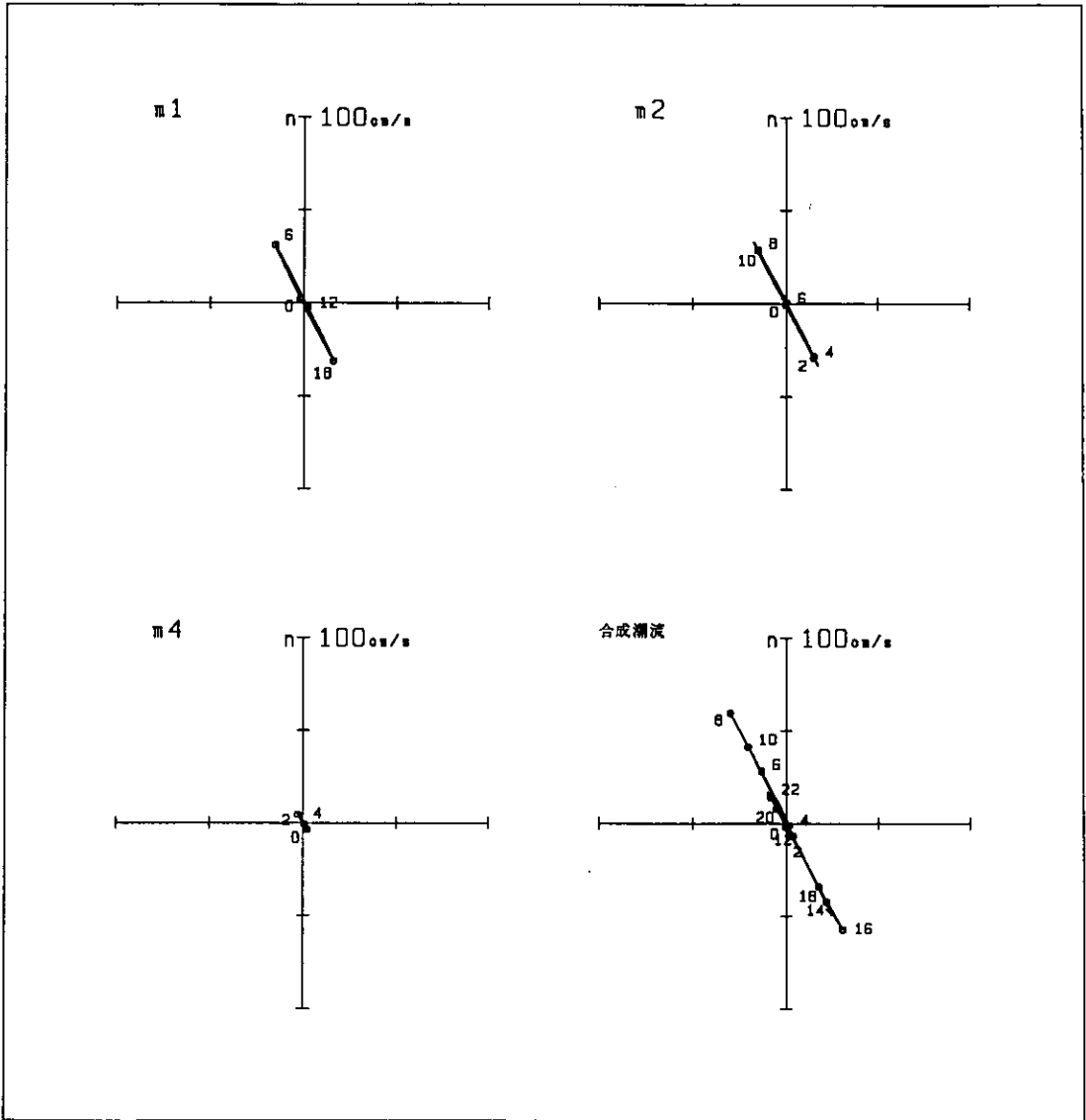
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/auto/ond4/exhd4/mor1/ohine/data/Neap/N.p04.up.br

Current Ellipse (P04, Upper Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

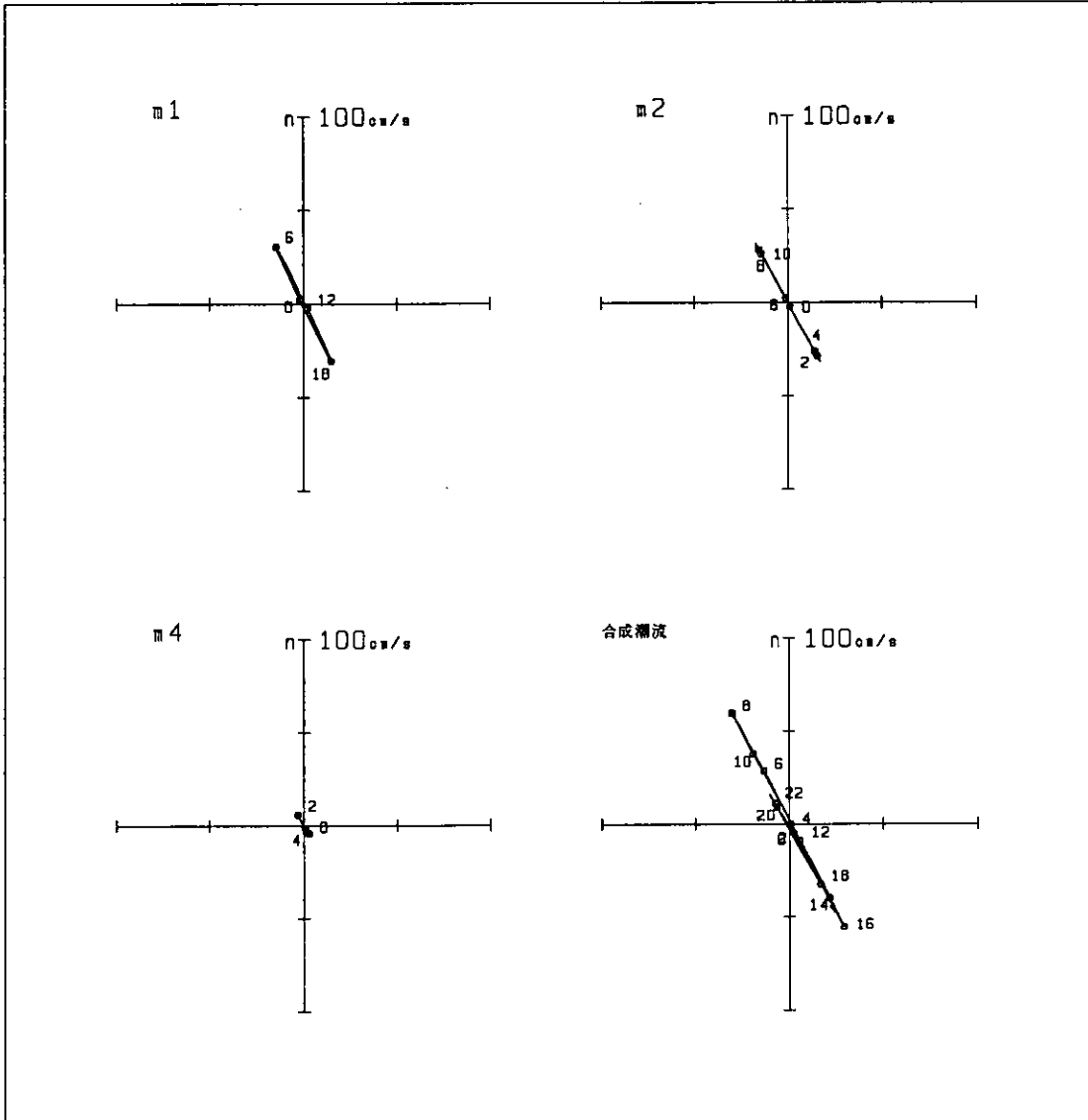
測点P04M, 海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.



/auto/ond4/exhd4/mori/ohina/data/Neap/N.p04.md.br

Current Ellipse (P04, Middle Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

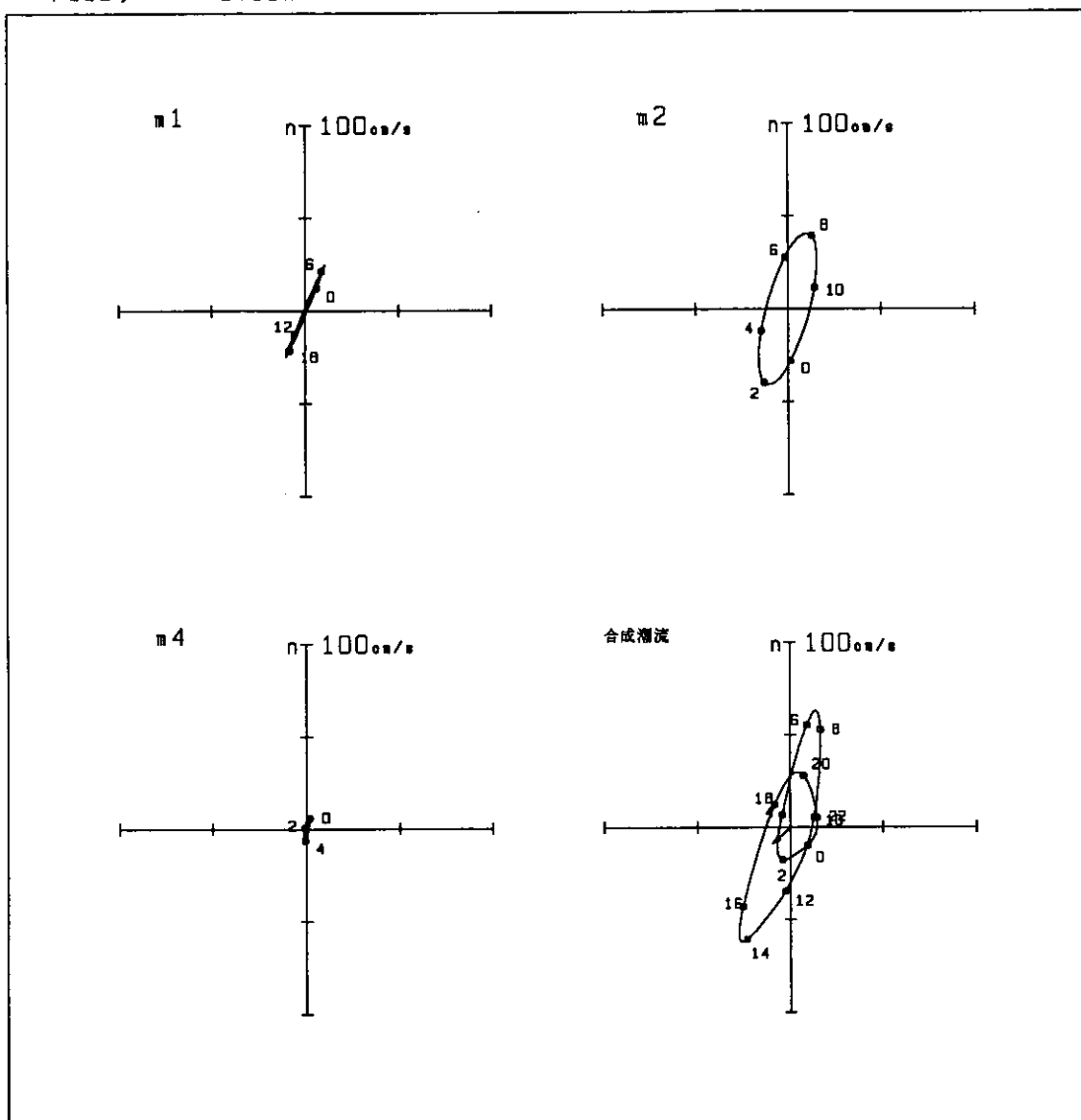
測点P04B, 海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.



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Current Ellipse (P04, Bottom Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

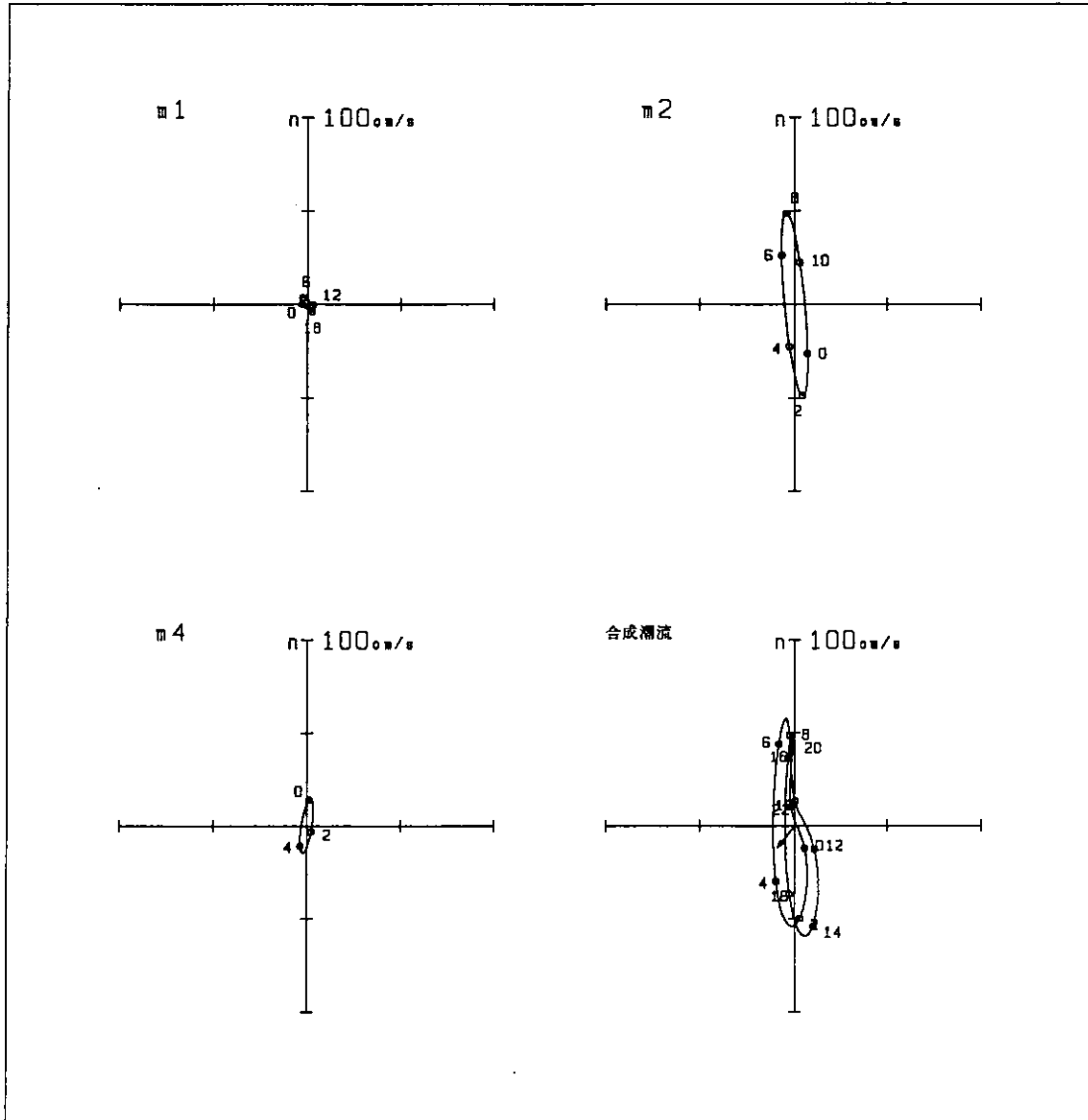
測点P11U, 海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.



/auto/ond4/exhd4/wor1/ohins/data/Neap/N.p11.up.br

Current Ellipse (P11, Upper Layer, Neap Tide: Aug. 7 – Aug. 8, 2000)

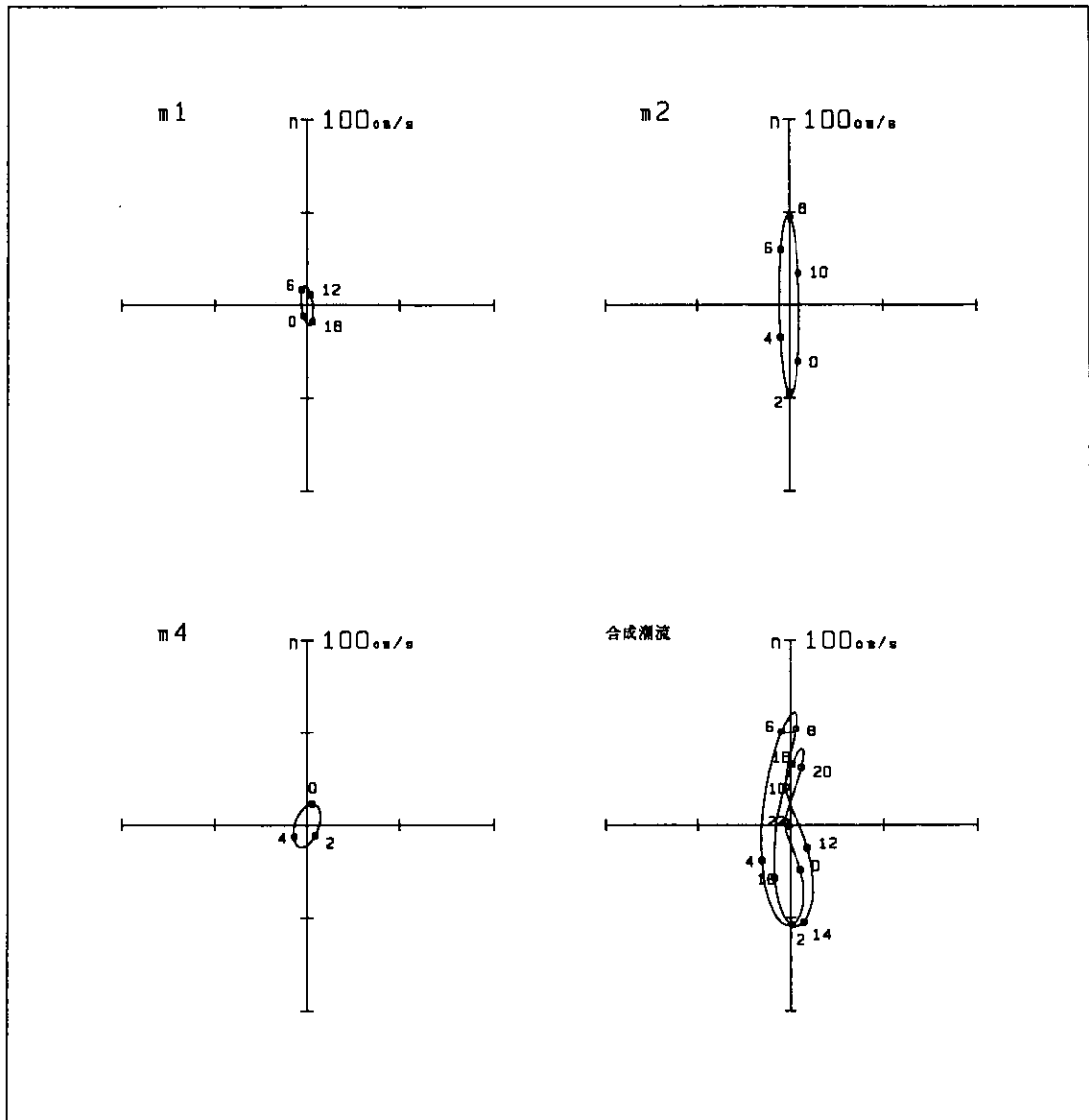
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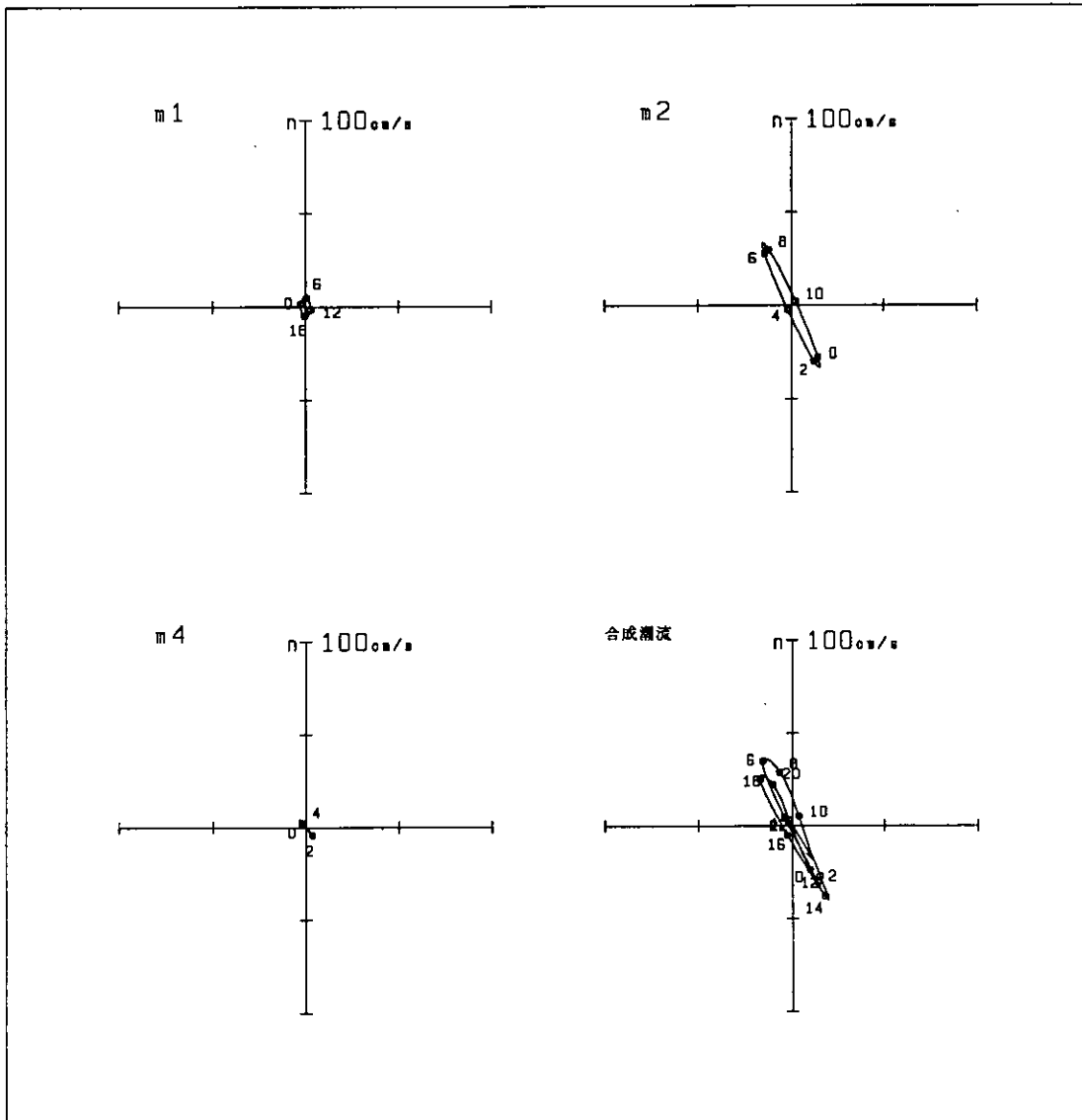
測点P11B, 海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.



/auto/ond4/exhd4/mori/china/data/Neap/N.p11.lv.br

Current Ellipse (P11, Bottom Layer, Neap Tide: Aug. 7 – Aug. 8, 2000)

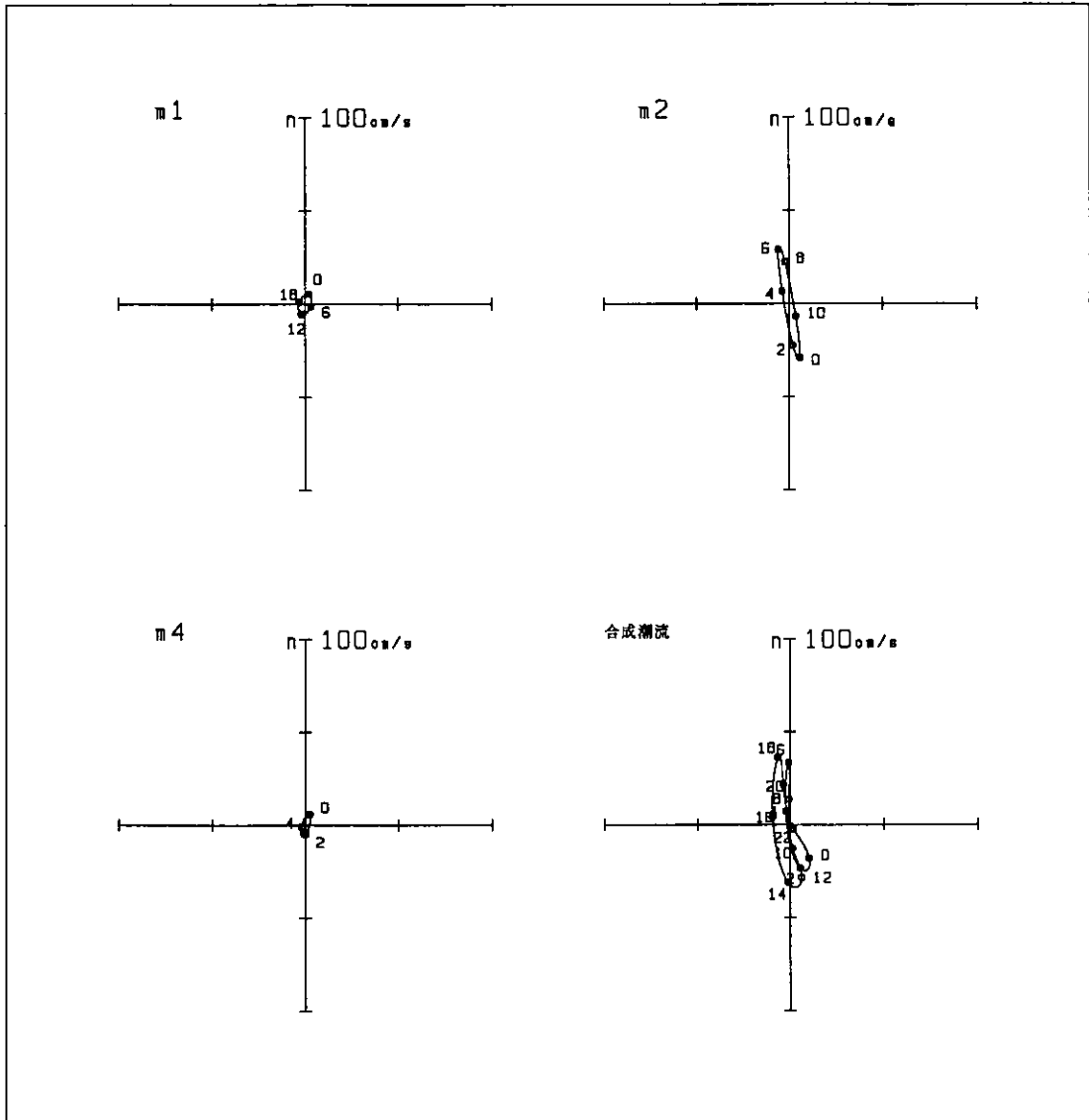
測点P12U, 海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.



/auto/ond4/exhd4/mori/china/data/Neap/N.p12.up.br

Current Ellipse (P12, Upper Layer, Neap Tide: Aug. 7 - Aug. 8, 2000)

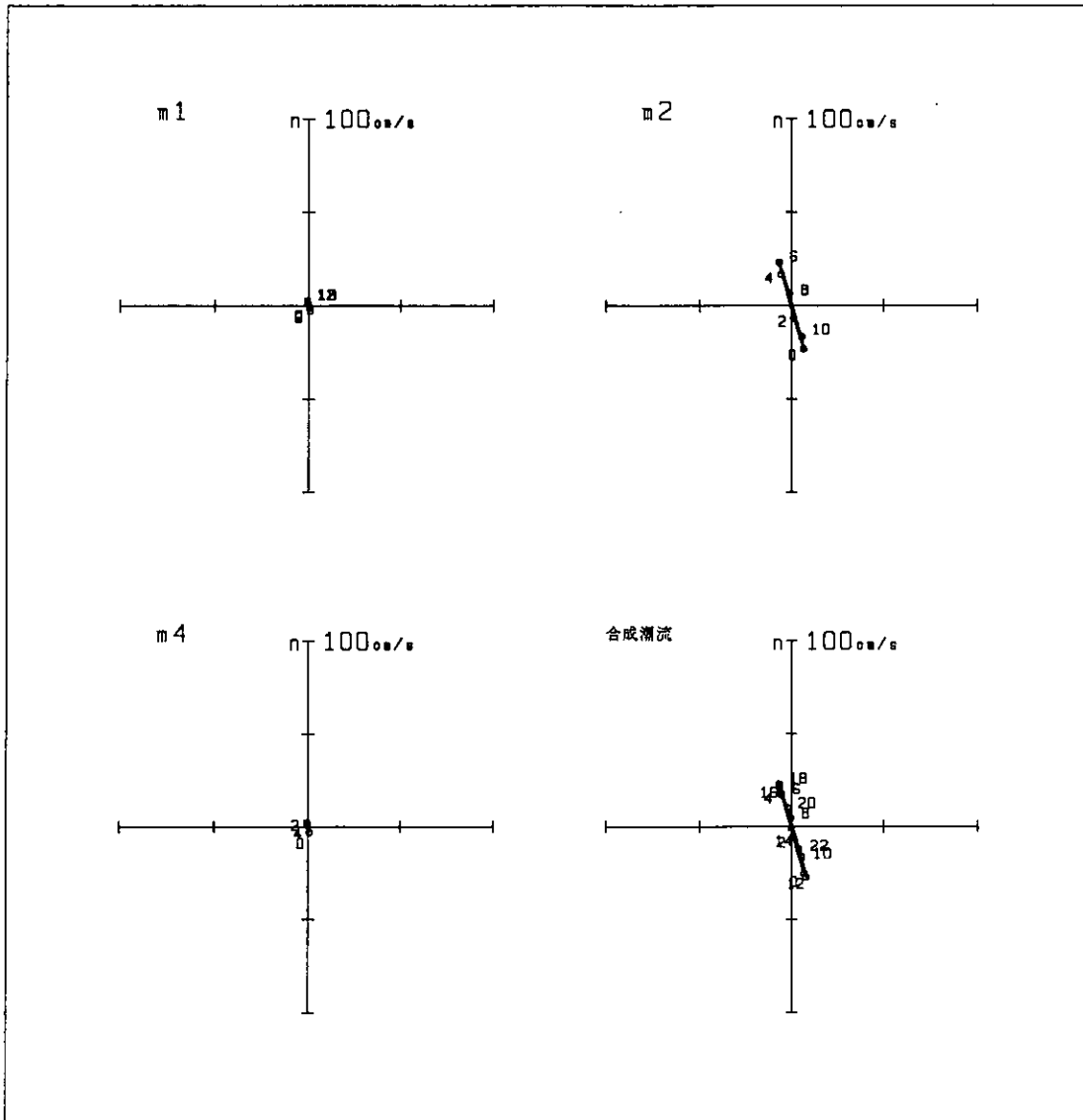
測点P12M, 海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.



/auto/ond4/exhd4/morl/china/data/Neap/N.p12.md.br

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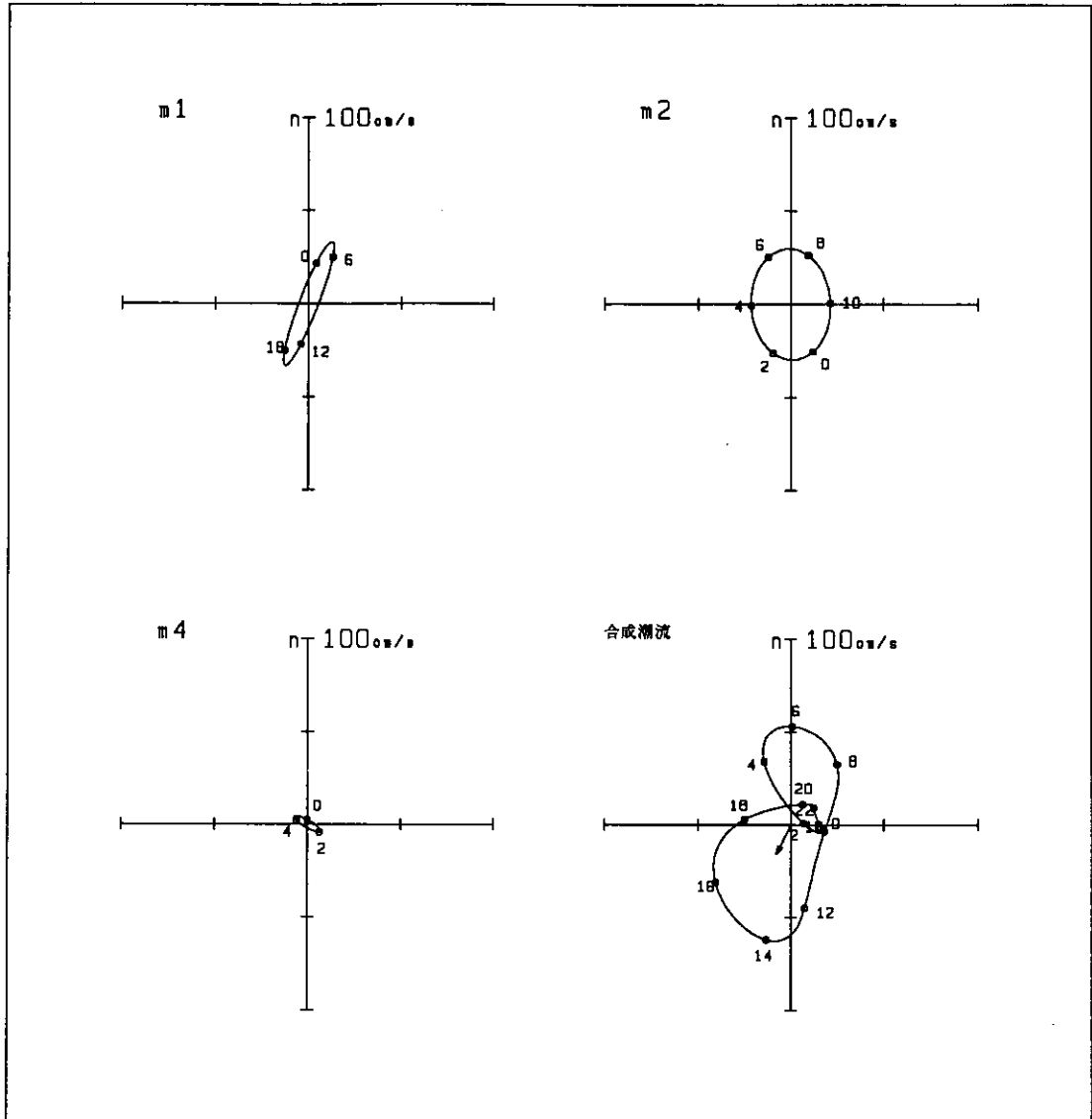
测点P12B, 海面下 0.00m. 解析期间 2000.8.7.~2000.8.8.



/auto/ond4/exhd4/mori/china/data/Neap/N.p12.lv.br

Current Ellipse (P12, Bottom Layer, Neap Tide: Aug. 7 - Aug. 8, 2000)

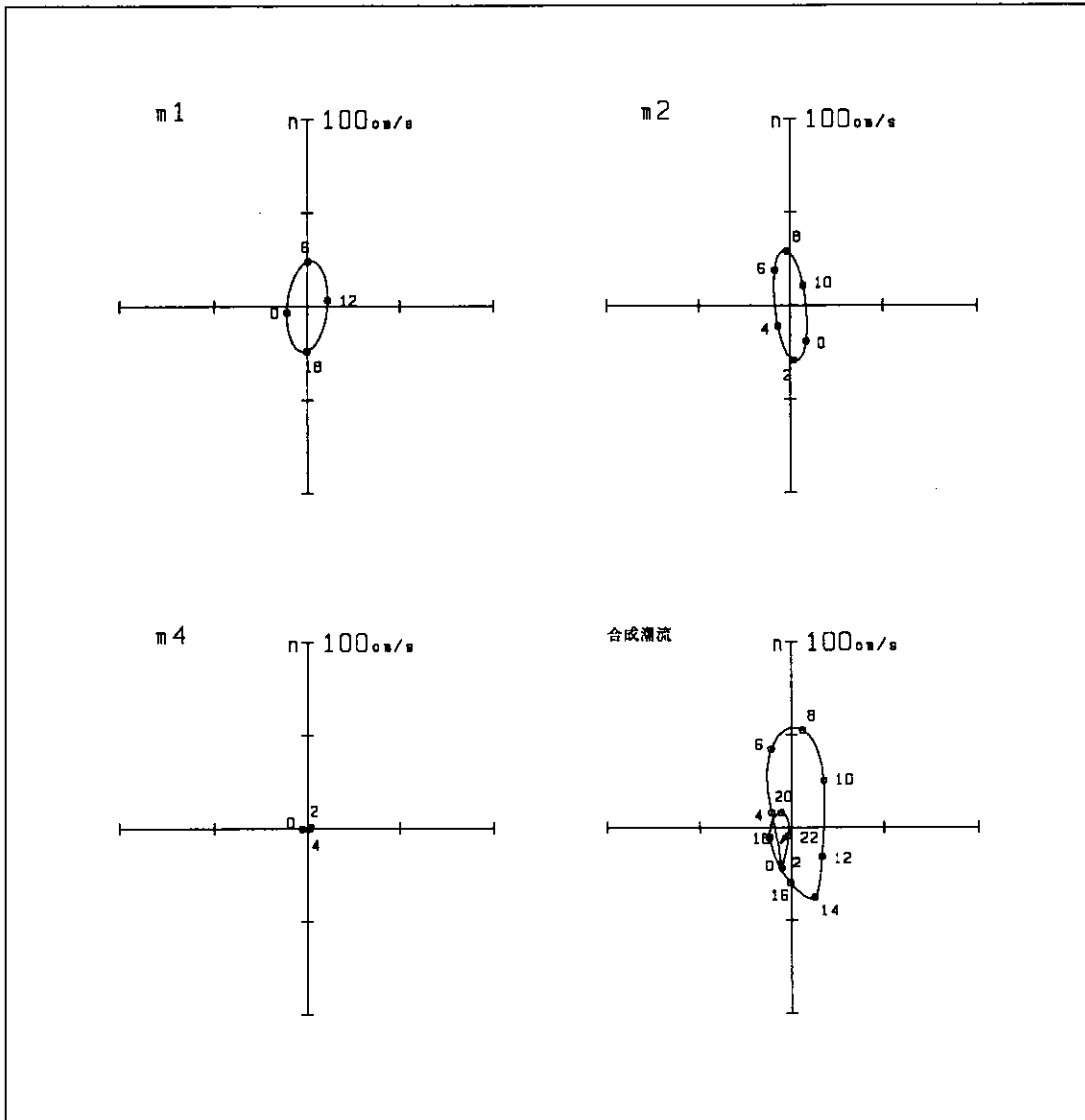
測点P19U, 海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.



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Current Ellipse (P19, Upper Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

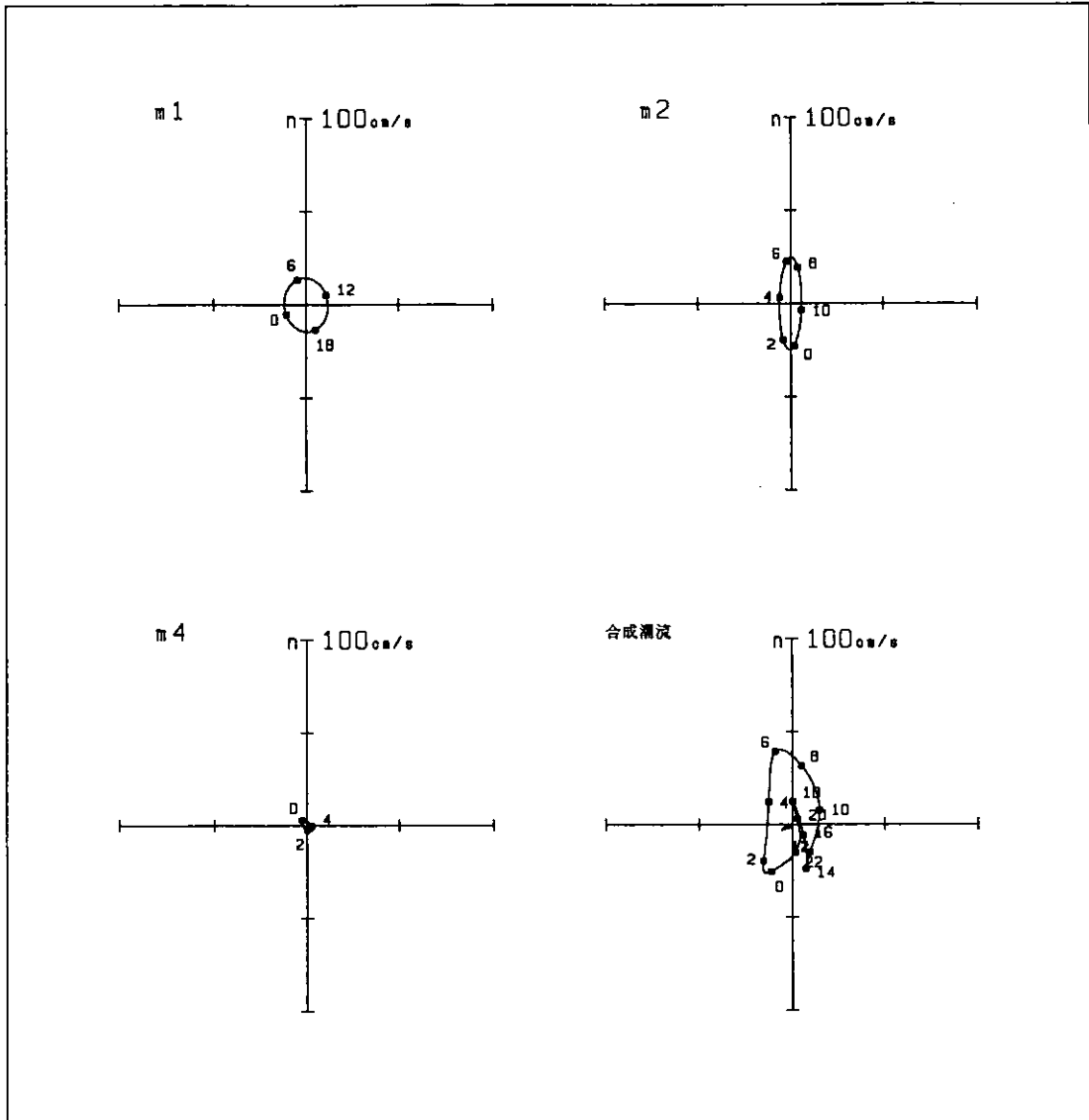
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Current Ellipse (P19, Middle Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

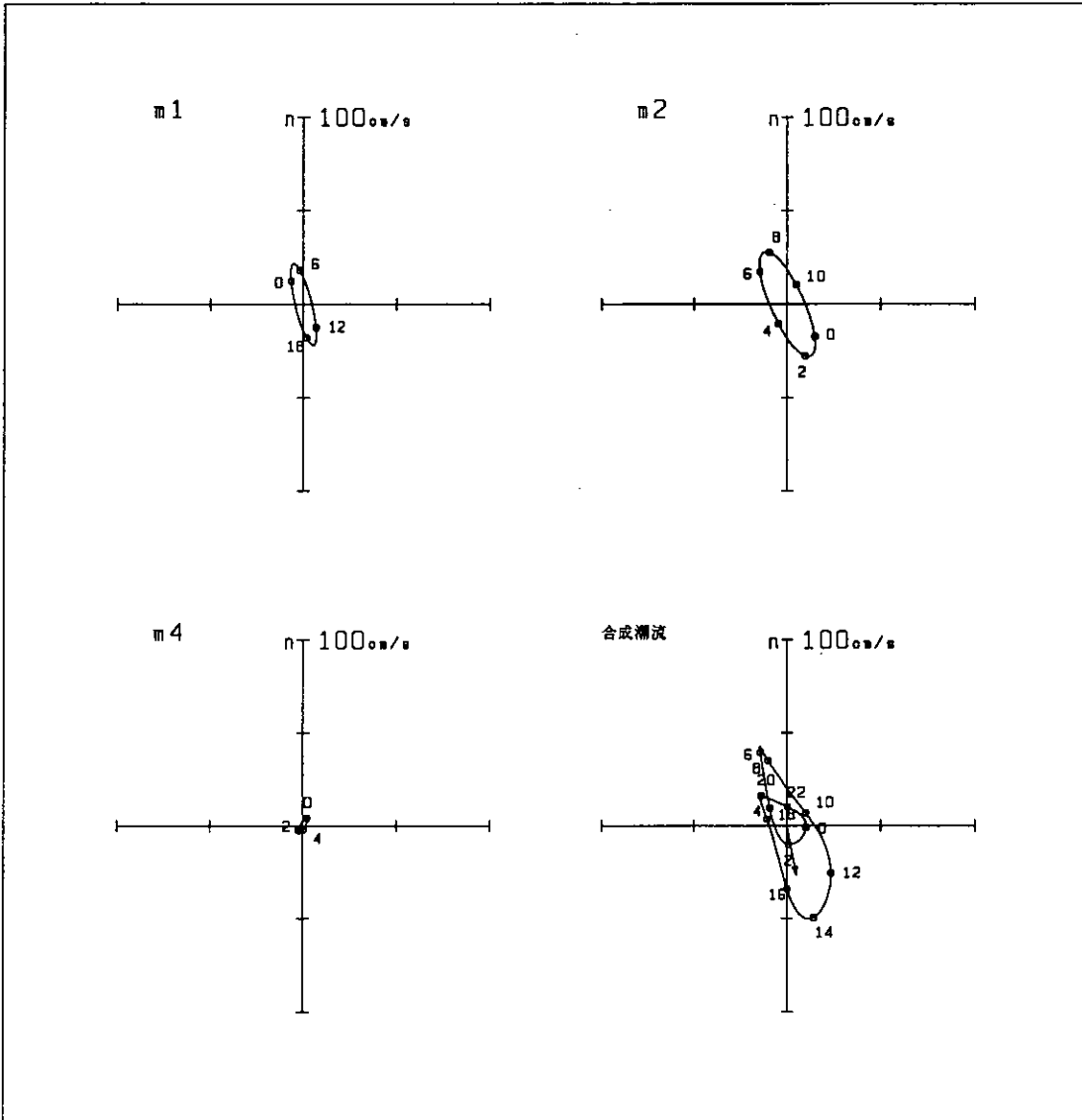
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/auto/ond4/exhd4/morl/ohina/data/Neap/N.p19.lv.br

Current Ellipse (P19, Bottom Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

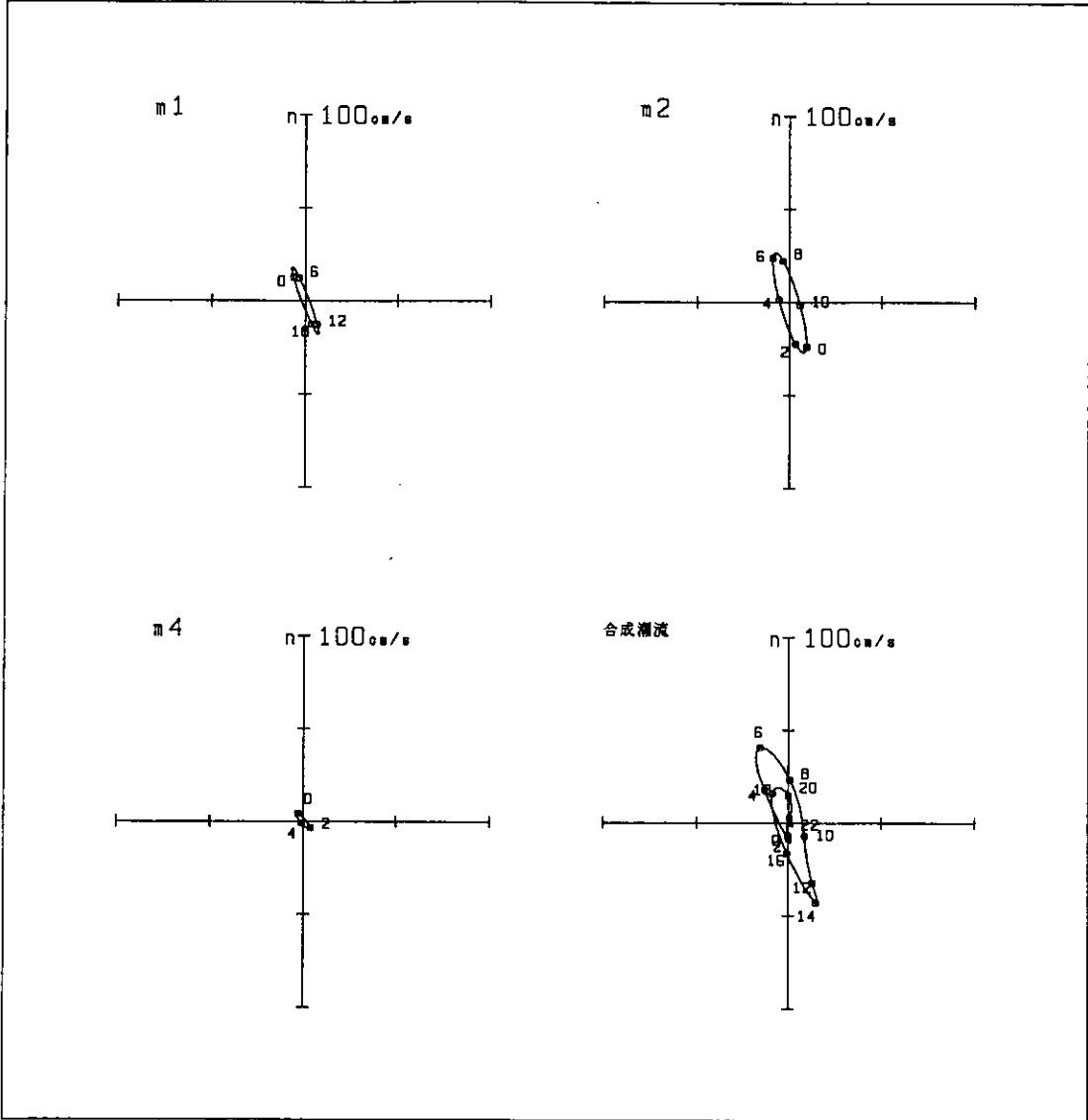
測点P20U, 海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.



/auto/ond4/exhd4/mori/ohins/date/Neap/N.p20.up.br

Current Ellipse (P20, Upper Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

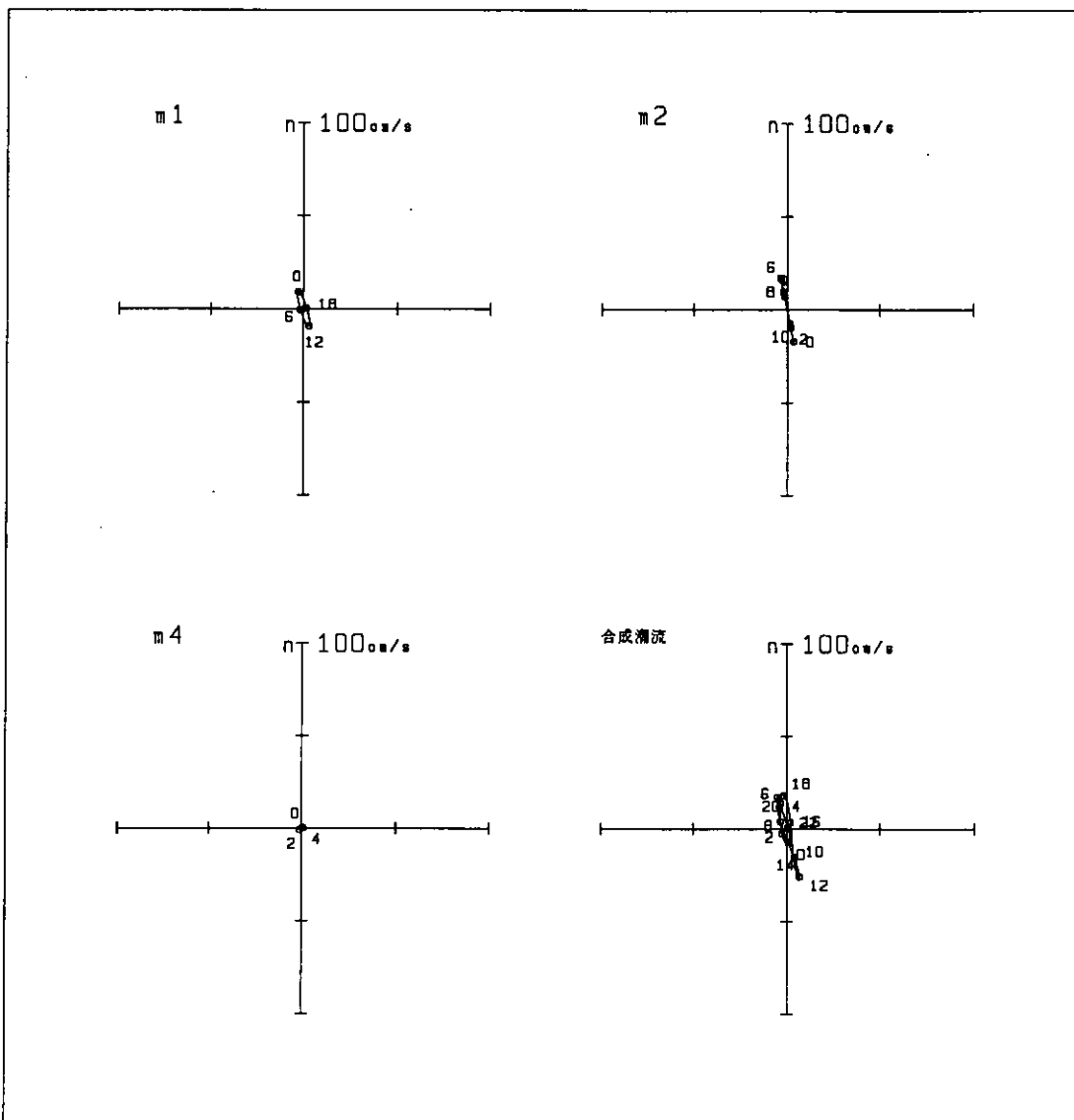
測点P20M, 海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.



/auto/and4/axhd4/worl/ohina/data/Neap/N.p20.md.br

Current Ellipse (P20, Middle Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

測点P20B, 海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.



/auto/ond4/exhd4/mori/ohina/data/Neap/N.p20.lv.br

Current Ellipse (P20, Bottom Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)

Dry Season

**FIELD SURVEY REPORT ON DRY 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
JAN 2001**

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1. Introduction

The objective of field survey on dry season of the Study on Improvement of Marine Environmental Monitoring System for the Pearl River Estuary is to provide the hydrology, water quality, sediment quality and biology data for developing a water quality and a ecological simulation model. The field survey on dry season is consequent upon Sino-Japan joint study on the Pearl River. The survey was conducted from 3,Dec to 15,Dec 2000 .The participators amounted to 59,among which 2 professor, 12 senior engineers, 25 engineers, 15 assistant engineers and the other 5. With the help of last field survey experience on rainy season, the workers of both sides of China and Japan did their best and fulfilled the survey.

2. Survey Points

In the study area, there were 25 point locations for hydrometeorology, water quality, bottom sediment quality and aquatic biota, of which 19 were intensive points and 6 were continuous points. In addition to that, there were 3 points set up for water level observation and 1 point location for ADCP observation.

3. Information of Vessels Employed

During the survey, 4 vessels were employed. They were Haijian 73, Haijian 72, civil boat A and civil boat B. Haijian 73 and Haijian 72 were in charge of the continuous points and some intensive points. Civil boat A was in charge of the shallower intensive points, and civil boat B for delivering samples.

4. Work Time and Navigation Route

As the survey plan was carefully worked out, the field survey was finished successfully according to original plan. During the survey, China side forwardly prolonged one hour for the observation on continuous point locations in order to obtain much more tide cycle data perfectly. Although that increased working time, workload and expense, the data was perfect. This also showed China side's conscientious style of work, scientific manner and keeping improving.

5. Field Survey

5.1 Water Quality Sampling At Site

The collected water samples amounted to 6736 at 25 point locations in rainy season survey. There were no samples missing during water collected. The samples were collected in accordance with sampling regulations and in order. There was no

contaminated sample. According to standard regulations, the additive was added to sample in pre-treated work for the sake of sample stability. During delivered and stored, there was no sample missing and breaking.

5.2 Sea Current and CTD

CTD was attested on-board Haijian 73 and Haijian 72 respectively. Before and after survey at each point, the water temperature, salinity and turbidity were tested. Water temperature micro-sensor was tested with reversing thermometer, conductivity and turbidity were tested with salinometer and turbidity meter. The above-mentioned tests results showed that tow methods readings were close basically.

RCM-9 was used to observe sea current.

CTD and sea current meter observation worked well in this survey, and continuous and perfect reading data were obtained.

5.3 Tidal Level Observation

Tidal level observation points were set up at Humen, Zhuhai and Guishan. Self-recorded water level recorder (WLR-7) was employed and deployed before 4 Dec, 2000 and begin to work. After 30 days observation in succession, the water level recorders were retrieved on 5 Jan,2001. The recorders worked perfectly during observation.

5.4 Meteorological Observation

The meteorological observation was conducted at 25 points and 1750 parameters were obtained. There was nothing abnormal during observation.

5.5 Phytoplankton, Zooplankton and Benthos

Phytoplankton, zooplankton and benthos survey were conducted at 25 points, and 122 samples were collected. The sampling was carried out in accordance with the survey regulations and original plan. Based on Sino-Japan agreement, all aquatic organisms left on the sieve with 0.5 mm in mesh during benthic survey were collected to be analyzed with low-power microscope at laboratory for qualitative and quantitative analysis.

5.6 Sediment

There were 8 point locations for sediment quality survey, and 8 samples were collected. During sampling, the samples were taken only 2cm in depth of top surface of sediment for the sake of reflecting exactly the present pollution conditions.

5.7 Light Quantum

During operation, the scientific worker avoided the sheltered umbra on-board at civil boat to observe light quantum. Every thing went well.

6. Samples Delivering, Analyzing and Data Processing

During the survey, the boat delivering sample could carry the samples collected by other civil boats to Haijian 73 and Haijian 72 on time for analysis. After the field survey, all samples were transported safely to the laboratory of SCSEMC. Each sample 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.

All analytic instruments employed were calibrated during the dry season survey. Before or after each group or 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. All analyzing jobs at laboratory were going well, so that the data were reliable.

The procedure of data processing observed ISO9000, and data processing such as calculation, check, examining, data format, Excel table and editing met the needs of quality control.

7. Statistics Results

During the dry season survey, 5965 analysis data of water quality , 120 data of bottom sediment quality, 651 parameters of aquatic biota, 60243 variables/parameters of hydrometeorology and light quantum (including water level) were get. The Table attached to this report presents the statistics results.

8. In Summary

In a common effort of both sides of China and Japan, the dry season survey was succeeded and avoided some problems encountered in rainy season survey. This survey was much more perfect than rainy season survey. The painstaking commanding and detailed planning was thoughtful and careful. The data observed were perfect. All of these should be contributed to the endeavors and jobs of both sides of China and Japan as well as experiences and lessons drawn in rainy season survey. We wish we could do our best in spring transitional season survey in Mar 2001 and achieve much more progress.

9. Table Statistic Data Results on the Dry Season Survey

No	Water quality items	Data numbers	No	Sediment quality items	Data numbers	No	Aquatic biota items	Data numbers	No	Hydrometeorological items	Data numbers
1	DO	395	21	Grain size	8	36	Chl-a	395	41	Water temperature	8935
2	pH	395	22	COD	8	37	Coli.	134	42	Salinity	8935
3	BOD ₅	395	23	Sulfide	8	38	Zooplankton	72	43	Water depth (sounding)	8935
4	COD _{Mn}	395	24	T-N	8	39	Phytoplankton	25	44	Turdity	8935
5	TOC	395	25	T-P	8	40	Benthos	25	45	Current speed	1872
6	NO ₃ -N	395	26	Oils	8				46	Current direction	1872
7	NO ₂ -N	395	27	Ignition Loss	8				47	Water color (China)	198
8	NH ₃ -N	395	28	Eh(ROP)	8				48	Water color (Japan)	198
9	PO ₄ -P	395	29	Organic matter	8				49	Transparency	198
10	SiO ₂ -Si	395	30	Hg	8				50	Weather	350
11	T-N	395	31	Cd	8				51	Water depth (lead weight)	350
12	T-P	395	32	Pb	8				52	Air temperature	350
13	Oils	86	33	Cu	8				53	Air pressure	350
14	SS	395	34	Zn	8				54	Wind speed	350
15	Hg	124	35	As	8				55	Wind direction	350
16	Cd	124							56	Water level	12963
17	Pb	124							57	Light quantum	5102
18	Cu	124									
19	Zn	124									
20	As	124									
total		5965			120			651			60243

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

Intensive point in spring tide

Total page 1

Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark			
	Y	M	D	H	Min											Latitude	Longitude	
1	P02	2000	12	10	07	30	22° 38' 28"	113° 44' 28"	8.4	0.7	18	5.5Y7/5	Clear	19.0	1018.0	4.7	60	
2	P03	2000	12	10	09	00	22° 36' 42"	113° 39' 29"	4.8	0.5	20	2.5Y6/8	Fog	20.9	1018.7	1.1	60	
3	P04	2000	12	10	07	54	22° 33' 30"	113° 37' 48"	9.0	0.4	20	2.5Y6/8	Fog	19.7	1018.2	3.3	350	
4	P05	2000	12	10	08	35	22° 32' 38"	113° 44' 50"	7.0	0.4	19	2.5Y6/8	Clear	20.1	1018.5	2.3	40	
5	P06	2000	12	10	09	07	22° 32' 28"	113° 48' 00"	7.3	0.7	16	5.5Y7/5	Clear	22.3	1018.9	0.5	50	
6	P07	2000	12	10	06	53	22° 28' 07"	113° 38' 42"	7.2	0.3	21	2.5Y6/8	Fog	20.0	1017.1	5.4	350	
7	P08	2000	12	10	09	55	22° 28' 10"	113° 44' 00"	7.2	0.5	18	5.5Y7/5	Clear	21.7	1019.0	2.0	90	
8	P09	2000	12	10	11	07	22° 27' 01"	113° 52' 57"	14.2	1.0	15	5GY6/4	Clear	21.6	1018.4	6.0	360	
9	P10	2000	12	09	16	56	22° 30' 11"	113° 58' 59"	3.3	0.8	20	2.5Y6/8	Fog	23.2	1013.7	3.4	270	
10	P14	2000	12	10	05	13	22° 19' 46"	113° 37' 58"	4.0				Clear	20.1	1016.3	1.8	30	
11	P15	2000	12	10	08	00	22° 19' 47"	113° 43' 00"	6.8	0.4	18	5.5Y6/8	Clear	20.8	1018.2	4.1	10	
12	P16	2000	12	10	12	30	22° 19' 48"	113° 48' 00"	13.6	1	14	5GY6/4	Clear	23.9	1017.3	4.6	350	
13	P17	2000	12	10	09	04	22° 15' 29"	113° 40' 59"	6.1	0.5	17	5.5Y6/8	Clear	22.2	1018.7	4.1	10	
14	P18	2000	12	10	13	20	22° 15' 27"	113° 47' 28"	14.0	1.1	13	5GY6/4	Clear	24.7	1016.6	2.6	360	
15	P21	2000	12	10	10	00	22° 08' 59"	113° 40' 42"	8.0	1.0	8	10GY4.5/7	Clear	24.3	1018.3	2.4	20	
16	P23	2000	12	10	14	40	22° 04' 57"	113° 42' 47"	10.5	1.9	6	5G6/8	Clear	25.2	1015.0	1.3	60	
17	P24	2000	12	10	12	20	22° 00' 01"	113° 30' 00"	6.1	1.0	17	5GY5/8	Clear	23.9	1017.0	2.5	50	
18	P25	2000	12	10	13	30	21° 56' 30"	113° 38' 30"	20.0	2.1	6	5G6/8	Clear	24.1	1015.9	2.7	40	
19	P27	2000	12	10	11	15	22° 04' 57"	113° 37' 40"	8.0	1.5	7	5GY6/4	Clear	21.9	1018.2	4.3	20	

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

Intensive point in neap tide

Total page 1

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark	
		Y	M	D	H	Min											Latitude
1	P02	2000	12	04	07	30	22° 38' 30"	113° 44' 10"	8.0	15	5GY6/4	Overcast	15.1	1019.2	7.7	80	
2	P03	2000	12	04	09	00	22° 36' 42"	113° 39' 29"	4.5	19	5.5Y7/5	Fog	16.3	1020.5	6.4	15	
3	P04	2000	12	04	14	10	22° 33' 29"	113° 37' 48"	9.5	20	2.5Y6/8	Fog	18.8	1017.1	3.5	15	
4	P05	2000	12	04	08	45	22° 32' 31"	113° 45' 00"	6.4	14	5GY6/4	Overcast	15.5	1020.6	6.7	70	
5	P06	2000	12	04	09	26	22° 32' 30"	113° 48' 00"	6.4	14	5GY6.5/1.5	Overcast	15.7	1020.8	3.0	70	
6	P07	2000	12	04	12	50	22° 28' 08"	113° 38' 42"	6.5	20	2.5Y6/8	Fog	17.9	1018.2	6.0	350	
7	P08	2000	12	04	10	30	22° 28' 08"	113° 44' 10"	6.1	14	5GY6.5/1.5	Overcast	15.5	1020.8	4.4	60	
8	P09	2000	12	04	11	40	22° 27' 01"	113° 52' 58"	15.5	14	5G5/4	Overcast	16.9	1020.7	4.3	360	
9	P10	2000	12	04	18	40	22° 30' 11"	113° 58' 59"	3.5			Clear	19.2	1016.9	1.9	360	
10	P14	2000	12	04	15	40	22° 19' 46"	113° 38' 59"	4.8	20	5.5Y7/5	Overcast	17.8	1016.5	5.2	50	
11	P15	2000	12	04	08	00	22° 19' 43"	113° 43' 00"	6.0	16	10Y6.5/10	Overcast	16.4	1020.0	4.8	20	
12	P16	2000	12	04	13	20	22° 19' 47"	113° 47' 58"	14.2	14	5GY6/4	Overcast	17.2	1018.0	4.4	50	
13	P17	2000	12	04	09	15	22° 15' 29"	113° 40' 59"	5.3	20	5.5Y6/8	Overcast	17.0	1021.5	6.5	20	
14	P18	2000	12	04	14	10	22° 15' 30"	113° 47' 30"	13.8	14	5GY6.5/1.5	Overcast	17.8	1017.5	5.1	360	
15	P21	2000	12	04	10	10	22° 08' 59"	113° 40' 42"	7.5	21	5.5Y6/8	Overcast	17.2	1020.9	8.0	30	
16	P23	2000	12	04	14	40	22° 04' 57"	113° 42' 47"	11.0	4	5B3/8	Overcast	18.8	1017.0	6.8	18	
17	P24	2000	12	04	12	18	22° 00' 00"	113° 30' 00"	5.0	21	5.5Y6/8	Overcast	19.6	1019.1	4.4	360	
18	P25	2000	12	04	13	30	21° 56' 30"	113° 38' 30"	20.0	4	5BG3.5/7	Overcast	18.4	1017.9	8.4	20	
19	P27	2000	12	04	11	05	21° 04' 57"	113° 37' 40"	7.0	21	9YR6.5/5	Overcast	19.0	1019.9	5.6	10	

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

Continuous point in spring tide

Total page 7

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
1	P01	2000	12	13	20	00	22°43'47"	113°40'03"	25.0		Overcast	12.1	1019.7	4.7	30	
2		2000	12	13	21	00			25.8		Overcast	11.7	1020.0	5.4	60	
3		2000	12	13	22	00			25.6		Overcast	11.7	1020.3	5.6	60	
4		2000	12	13	23	00			25.6		Overcast	11.5	1020.4	5.7	50	
5		2000	12	14	00	00			25.8		Overcast	11.1	1020.3	5.5	60	
6		2000	12	14	01	00			25.9		Overcast	10.9	1020.3	5.8	50	
7		2000	12	14	02	00			25.9		Overcast	10.7	1020.3	6.2	60	
8		2000	12	14	03	00			24.9		Overcast	10.4	1020.2	6.4	50	
9		2000	12	14	04	00			25.0		Clear	9.9	1019.8	6.4	50	
10		2000	12	14	05	00			21.0		Fog	10.5	1020.0	6.0	50	
11		2000	12	14	06	00			21.7		Fog	10.5	1020.0	5.6	50	
12		2000	12	14	07	00			23.6	0.2	Fog	10.9	1020.0	6.0	50	
13		2000	12	14	08	00			24.3	0.3	Fog	11.9	1020.0	6.2	50	
14		2000	12	14	09	00			23.8	0.3	Fog	11.9	1020.0	5.0	50	
15		2000	12	14	10	00			23.4	0.3	Fog	12.7	1022.1	6.2	50	
16		2000	12	14	11	00			24.6	0.3	Fog	13.3	1022.6	6.5	40	
17		2000	12	14	12	00			24.6	0.4	Fog	13.9	1020.6	7.2	20	
18		2000	12	14	13	00			24.7	0.5	Fog	14.3	1020.2	7.3	50	
19		2000	12	14	14	00			25.1	0.5	Fog	14.2	1020.0	6.7	30	
20		2000	12	14	15	00			25.1	0.5	Fog	14.1	1019.6	6.2	30	
21		2000	12	14	16	00			25.2	0.5	Fog	14.7	1019.6	5.2	60	
22		2000	12	14	17	00			24.9	0.9	Fog	14.9	1019.6	4.2	60	
23		2000	12	14	18	00			24.1		Fog	14.3	1019.6	4.0	60	
24		2000	12	14	19	00			24.3		Fog	13.7	1019.6	5.0	60	
25		2000	12	14	20	00			24.9		Fog	14.0	1019.7	3.3	10	

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

Continuous point in spring tide

Total page 7

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
26		2000	12	14	21	00	25.4				Fog	14.2	1021.1	3.7	360	
27	P11	2000	12	13	20	00	7.5				Overcast	13.0	1020.1	9.7	10	
28		2000	12	13	21	00	8.2				Overcast	13.6	1020.2	8.9	30	
29		2000	12	13	22	00	8.0				Overcast	13.6	1020.3	10.1	30	
30		2000	12	13	23	00	8.3				Overcast	13.2	1019.7	8.8	10	
31		2000	12	14	00	00	7.5				Overcast	13.2	1021.1	5.8	30	
32		2000	12	14	01	00	7.8				Overcast	13.2	1021.1	7.8	360	
33		2000	12	14	02	00	8.4				Overcast	13.0	1021.2	7.4	40	
34		2000	12	14	03	00	8.3				Overcast	12.8	1020.7	5.2	350	
35		2000	12	14	04	00	6.0				Overcast	12.7	1020.7	7.5	10	
36		2000	12	14	05	00	6.2				Overcast	12.6	1020.7	8.7	10	
37		2000	12	14	06	00	7.2				Overcast	12.7	1021.3	7.9	10	
38		2000	12	14	07	00	6.8				Overcast	12.6	1021.2	8.9	350	
39		2000	12	14	08	00	6.8	0.1	21	2.5Y6/8	Clear	13.2	1021.8	8.6	10	
40		2000	12	14	09	00	7.4	0.1	21	2.5Y6/8	Clear	13.9	1023.2	7.5	10	
41		2000	12	14	10	00	7.4	0.1	21	2.5Y6/8	Clear	14.5	1023.2	9.1	10	
42		2000	12	14	11	00	7.2	0.1	21	2.5Y6/8	Clear	13.9	1022.6	8.6	10	
43		2000	12	14	12	00	8.0	0.1	21	2.5Y6/8	Clear	14.4	1021.5	8.5	10	
44		2000	12	14	13	00	8.4	0.1	21	2.5Y6/8	Clear	15.3	1021.1	7.8	10	
45		2000	12	14	14	00	7.6	0.1	21	2.5Y6/8	Clear	15.8	1020.0	8.5	360	
46		2000	12	14	15	00	8.0	0.2	21	2.5Y6/8	Clear	18.8	1019.7	7.0	360	
47		2000	12	14	16	00	7.7	0.3	17	5.5Y7/5	Clear	18.8	1019.9	6.8	360	
48		2000	12	14	17	00	7.6	0.3	17	5.5Y7/5	Clear	18.0	1019.2	6.8	350	
49		2000	12	14	18	00	7.9				Overcast	16.2	1020.8	3.2	360	
50		2000	12	14	19	00	7.9				Clear	15.9	1020.6	5.9	10	

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

Continuous point in spring tide

Total page 7

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
51		2000	12	14	20	00					Clear	15.8	1021.7	5.1	20	
52		2000	12	14	21	00					Clear	14.6	1021.1	5.0	30	
53	P12	2000	12	12	15	00	22°24' 26"	113°52' 35"	18	5.5Y7/5	Raining	15.6	1018.8	3.7	60	
54		2000	12	12	16	00			19	2.5Y6/8	Raining	15.5	1018.8	3.5	60	
55		2000	12	12	17	00			19	2.5Y6/8	Raining	15.1	1019.5	4.2	60	
56		2000	12	12	18	00					Raining	14.9	1019.6	6.3	50	
57		2000	12	12	19	00					Raining	14.7	1019.9	7.2	50	
58		2000	12	12	20	00					Raining	14.4	1020.1	7.2	60	
59		2000	12	12	21	00					Raining	14.5	1020.1	7.0	90	
60		2000	12	12	22	00					Raining	14.5	1019.6	5.6	60	
61		2000	12	12	23	00					Raining	14.3	1019.6	5.8	40	
62		2000	12	13	00	00					Raining	13.9	1019.6	7.0	40	
63		2000	12	13	01	00					Raining	12.9	1019.6	7.0	40	
64		2000	12	13	02	00					Raining	11.9	1019.7	8.0	40	
65		2000	12	13	03	00					Raining	11.9	1019.7	7.8	40	
66		2000	12	13	04	00					Raining	10.9	1019.0	3.4	50	
67		2000	12	13	05	00					Raining	10.6	1019.6	5.7	50	
68		2000	12	13	06	00					Raining	10.5	1019.9	6.0	40	
69		2000	12	13	07	00					Raining	10.4	1020.7	6.7	50	
70		2000	12	13	08	00			19	2.5Y6/8	Raining	10.4	1020.9	6.3	50	
71		2000	12	13	09	00			19	2.5Y6/8	Raining	10.5	1020.9	7.7	30	
72		2000	12	13	10	00			19	2.5Y6/8	Raining	10.3	1020.9	9.4	30	
73		2000	12	13	11	00			19	5.5Y6/8	Raining	10.3	1020.9	8.4	30	
74		2000	12	13	12	00			16	5.5Y6/8	Raining	10.1	1019.9	8.6	30	
75		2000	12	13	13	00			16	5.5Y6/8	Raining	10.7	1019.9	8.0	30	

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

Continuous point in spring tide

Total page 7

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
76		2000	12	13	14	00			16	5.5Y6/8	Raining	10.1	1017.8	6.6	30	
77		2000	12	13	15	00			16	5.5Y6/8	Raining	11.1	1017.8	7.3	60	
78		2000	12	13	16	00			15	5GY6/4	Raining	10.9	1016.8	6.0	50	
79	P19	2000	12	12	15	00	22°11'58"	113°42'00"	18	5.5Y7/5	Raining	16.9	1019.3	5.6	10	
80		2000	12	12	16	00			18	5.5Y6/8	Raining	16.8	1019.3	4.8	20	
81		2000	12	12	17	00			18	5.5Y6/8	Raining	16.8	1019.4	8.3	20	
82		2000	12	12	18	00			7.1		Raining	16.6	1020.0	7.9	360	
83		2000	12	12	19	00			8.0		Raining	16.2	1020.1	9.6	20	
84		2000	12	12	20	00			8.3		Raining	16.2	1020.7	9.2	40	
85		2000	12	12	21	00			8.4		Raining	16.2	1020.5	8.7	30	
86		2000	12	12	22	00			8.5		Raining	15.6	1021.2	7.2	10	
87		2000	12	12	23	00			8.8		Raining	15.4	1020.9	8.4	10	
88		2000	12	13	00	00			8.4		Raining	15.2	1020.2	8.3	10	
89		2000	12	13	01	00			7.8		Raining	14.6	1020.2	5.0	30	
90		2000	12	13	02	00			7.2		Raining	13.9	1020.1	4.6	10	
91		2000	12	13	03	00			6.5		Raining	13.8	1019.8	6.7	10	
92		2000	12	13	04	00			6.5		Raining	13.3	1019.2	7.4	360	
93		2000	12	13	05	00			6.5		Raining	13.0	1020.6	10.1	350	
94		2000	12	13	06	00			5.8		Raining	12.8	1018.6	7.8	360	
95		2000	12	13	07	00			6.3	0.1	Raining	13.0	1021.1	10.6	360	
96		2000	12	13	08	00			6.4	0.1	Raining	13.0	1021.1	9.2	20	
97		2000	12	13	09	00			6.5	0.1	Raining	12.4	1021.6	9.0	360	
98		2000	12	13	10	00			6.7	0.1	Raining	12.7	1020.8	11.4	360	
99		2000	12	13	11	00			7.2	0.1	Raining	12.9	1020.9	9.0	350	
100		2000	12	13	12	00			7.3	0.1	Raining	12.6	1020.5	8.7	350	

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

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark	
		Y	M	D	H	Min											Latitude
101		2000	12	13	13	00											
102		2000	12	13	14	00											
103		2000	12	13	15	00											
104		2000	12	13	16	00											
105	P20	2000	12	11	10	00	22°11'57"	113°48'01"	20.2	13	5GY6/4	Overcast	21.0	1021.9	7.2	30	
106		2000	12	11	11	00			20.2	13	5GY6/4	Fog	20.9	1021.6	7.2	30	
107		2000	12	11	12	00			20.1	13	5GY6/4	Fog	21.3	1020.8	5.3	60	
108		2000	12	11	13	00			20.7	13	5GY6/4	Fog	21.2	1019.3	6.0	80	
109		2000	12	11	14	00			20.5	13	5GY6/4	Fog	21.0	1018.8	6.7	80	
110		2000	12	11	15	00			19.8	13	5GY6.5/1.5	Fog	20.9	1018.3	7.0	90	
111		2000	12	11	16	00			19.8	14	5GY6/4	Fog	21.3	1018.3	9.4	90	
112		2000	12	11	17	00			20	14	5GY6/4	Fog	20.5	1018.3	10.5	90	
113		2000	12	11	18	00			20.7			Fog	20.1	1018.3	11.2	90	
114		2000	12	11	19	00			21.2			Raining	20.2	1019.3	11.0	90	
115		2000	12	11	20	00			21.8			Raining	19.7	1019.3	11.2	90	
116		2000	12	11	21	00			21.6			Raining	19.9	1019.3	8.0	90	
117		2000	12	11	22	00			21.4			Raining	19.7	1020.1	8.4	90	
118		2000	12	11	23	00			20.4			Raining	19.4	1020.3	8.0	90	
119		2000	12	12	00	00			19.8			Raining	19.2	1019.9	7.4	90	
120		2000	12	12	01	00			21.6			Raining	18.7	1019.6	7.3	90	
121		2000	12	12	02	00			20.7			Raining	18.1	1019.4	7.2	90	
122		2000	12	12	03	00			19.8			Raining	18.5	1019.4	6.7	90	
123		2000	12	12	04	00			20.3			Raining	16.9	1018.9	6.2	90	
124		2000	12	12	05	00			20			Raining	16.9	1019.5	6.0	90	
125		2000	12	12	06	00			19.9			Raining	16.7	1019.5	5.2	90	

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
126		2000	12	12	07	00										
127		2000	12	12	08	00										
128		2000	12	12	09	00										
129		2000	12	12	10	00										
130		2000	12	12	11	00										
131	P22	2000	12	11	10	00	22°05'08"	113°47'01"	13.5	6	5G6/8	Overcast	1022.2	9.7	70	
132		2000	12	11	11	00			13.5	6	10GY4.5/7	Overcast	1021.7	4.1	70	
133		2000	12	11	12	00			13.1	6	10GY4.5/7	Overcast	1012.0	7.7	90	
134		2000	12	11	13	00			13.5	6	10GY4.5/7	Overcast	1020.7	6.2	8.0	
135		2000	12	11	14	00			13.3	6	10GY4.5/7	Overcast	1018.3	4.6	90	
136		2000	12	11	15	00			13.3	6	10GY4.5/7	Overcast	1018.7	8.5	90	
137		2000	12	11	16	00			13.5	6	10GY4.5/7	Overcast	1018.2	8.7	90	
138		2000	12	11	17	00			13.8	8	5GY5/8	Overcast	1018.8	9.6	100	
139		2000	12	11	18	00			14.2			Overcast	1018.7	10.1	80	
140		2000	12	11	19	00			14.2			Overcast	1019.7	8.7	80	
141		2000	12	11	20	00			14.5			Overcast	1020.0	10.6	80	
142		2000	12	11	21	00			14.6			Raining	1020.8	8.2	50	
143		2000	12	11	22	00			15.0			Raining	1021.1	10.2	60	
144		2000	12	11	23	00			15.0			Raining	1021.2	6.4	80	
145		2000	12	12	00	00			14.5			Raining	1021.2	9.1	60	
146		2000	12	12	01	00			14.0			Raining	1020.7	8.2	60	
147		2000	12	12	02	00			13.0			Raining	1020.7	5.6	70	
148		2000	12	12	03	00			12.5			Raining	1020.2	3.9	60	
149		2000	12	12	04	00			12.8			Raining	1020.2	4.6	60	
150		2000	12	12	05	00			12.8			Raining	1020.1	2.3	70	

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
151		2000	12	12	06	00					Raining	17.6	1020.2	3.4	70	
152		2000	12	12	07	00		0.9	16	5GY6/4	Raining	17.4	1020.2	6.2	70	
153		2000	12	12	08	00		0.9	16	5GY6/4	Raining	17.9	1020.9	5.4	70	
154		2000	12	12	09	00		0.8	16	5GY6/4	Raining	17.4	1022.2	6.6	50	
155		2000	12	12	10	00		0.8	16	5GY6/4	Raining	17.2	1021.9	5.5	10	
156		2000	12	12	11	00		0.9	16	5GY6/4	Raining	17.4	1022.0	5.6	20	

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

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Total page 7

No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
1	P01	2000	12	7	20	00	22°43'47"	113°40'00"	26.3		Clear	21.2	1017.3	0.7	120	
2		2000	12	7	21	00			27.3		Fog	21.3	1017.5	1.4	100	
3		2000	12	7	22	00			27.4		Fog	20.5	1018.1	2.2	150	
4		2000	12	7	23	00			26.8		Fog	20.4	1018.3	2.7	150	
5		2000	12	8	00	00			26.7		Fog	20.2	1018.4	3.7	90	
6		2000	12	8	01	00			26.2		Fog	20.2	1018.4	3.0	110	
7		2000	12	8	02	00			26.1		Fog	19.8	1018.4	4.1	100	
8		2000	12	8	03	00			25.5		Fog	19.3	1018.4	4.0	90	
9		2000	12	8	04	00			25.0		Fog	18.9	1018.4	3.8	90	
10		2000	12	8	05	00			26.4		Fog	18.9	1018.4	4.0	90	
11		2000	12	8	06	00			26		Fog	18.3	1018.4	2.2	90	
12		2000	12	8	07	00			26.6	0.8	Fog	17.9	1018.4	2.4	90	
13		2000	12	8	08	00			26.8	0.8	Fog	17.9	1018.4	2.6	90	
14		2000	12	8	09	00			26.8	1.0	Fog	18.8	1019.4	3.4	100	
15		2000	12	8	10	00			26.7	0.8	Fog	19.6	1019.3	3.2	90	
16		2000	12	8	11	00			26.7	0.8	Fog	21.1	1018.2	3.3	90	
17		2000	12	8	12	00			26.9	0.9	Fog	21.4	1018.3	3.0	90	
18		2000	12	8	13	00			26.4	0.8	Fog	21.9	1016.5	3.3	90	
19		2000	12	8	14	00			25.8	0.8	Fog	21.9	1016.2	2.7	100	
20		2000	12	8	15	00			25.8	0.8	Fog	21.9	1015.7	1.7	110	
21		2000	12	8	16	00			26.0	1.0	Fog	22.1	1014.5	1.2	140	
22		2000	12	8	17	00			26.1	0.9	Fog	21.9	1014.5	3.0	170	
23		2000	12	8	18	00			26.8		Fog	21.9	1014.5	3.0	170	
24		2000	12	8	19	00			25.8		Fog	20.9	1014.3	2.0	160	
25		2000	12	8	20	00			27.5		Fog	20.9	1015.3	2.5	160	

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
26		2000	12	8	21	00	27.4				Fog	20.9	1015.3	2.5	190	
27	P11	2000	12	07	20	00	8.5			113°45'00"	22°24'29"	21.0	1016.2	2.0	230	
28		2000	12	07	21	00	8.5				Clear	20.7	1018.6	1.6	250	
29		2000	12	07	22	00	8.0				Clear	21.2	1018.1	3.0	280	
30		2000	12	07	23	00	8.2				Clear	20.8	1019.2	2.7	130	
31		2000	12	08	00	00	8.2				Clear	20.6	1018.7	1.8	80	
32		2000	12	08	01	00	7.8				Clear	20.2	1018.7	2.1	80	
33		2000	12	08	02	00	7.6				Clear	19.8	1018.7	4.2	50	
34		2000	12	08	03	00	6.8				Clear	19.4	1018.0	3.6	50	
35		2000	12	08	04	00	6.8				Clear	19.3	1018.1	3.0	50	
36		2000	12	08	05	00	7.5				Clear	19.2	1018.0	3.0	60	
37		2000	12	08	06	00	7.5				Clear	19.3	1018.1	1.9	55	
38		2000	12	08	07	00	7.8				Clear	19.3	1018.9	1.0	60	
39		2000	12	08	08	00	8.0	1.6	7	10GY4.5/7	Clear	19.4	1019.1	2.7	55	
40		2000	12	08	09	00	8.2	1.6	7	10GY4.5/7	Clear	21.4	1019.8	2.9	80	
41		2000	12	08	10	00	8.3	1.6	7	10GY4.5/7	Clear	25.3	1019.3	2.1	60	
42		2000	12	08	11	00	7.8	1.3	7	10GY4.5/7	Clear	25.8	1018.3	0.0	C	
43		2000	12	08	12	00	7.7	1.7	6	10GY4.5/7	Clear	23.8	1017.0	1.7	170	
44		2000	12	08	13	00	7.6	1.8	7	10GY4.5/7	Clear	24.0	1016.1	1.9	230	
45		2000	12	08	14	00	7.6	1.8	7	5GY6/8	Clear	23.5	1016.3	2.4	260	
46		2000	12	08	15	00	7.5	1.7	7	5GY6/8	Clear	23.0	1014.1	2.8	260	
47		2000	12	08	16	00	7.8	1.8	7	5GY6/8	Clear	24.8	1014.4	3.5	130	
48		2000	12	08	17	00	8.3	1.7	7	5GY6/8	Clear	23.2	1014.5	4.6	120	
49		2000	12	08	18	00	8.7				Clear	22.2	1014.2	1.7	230	
50		2000	12	08	19	00	8.5				Clear	23.2	1015.8	6.3	120	

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
51		2000	12	08	20	00					Clear	22.0	1015.8	7.0	120	
52		2000	12	08	21	00					Clear	21.7	1016.1	6.6	110	
53	P12	2000	12	06	15	00	22° 24' 25"	113° 52' 38"	13	5GY6.5/1.5	Fog	21.1	1016.6	3.6	360	
54		2000	12	06	16	00			13	5GY6.5/1.5	Fog	21.3	1016.3	3.0	330	
55		2000	12	06	17	00			13	5GY6.5/1.5	Fog	21.3	1016.3	2.7	330	
56		2000	12	06	18	00			14.5		Fog	20.9	1016.9	0.9	340	
57		2000	12	06	19	00			14.4		Fog	20.5	1017.5	1.4	230	
58		2000	12	06	20	00			14.9		Fog	20.4	1019.4	1.7	230	
59		2000	12	06	21	00			15.4		Fog	20.1	1018.8	1.5	230	
60		2000	12	06	22	00			14.3		Fog	19.9	1018.3	1.2	240	
61		2000	12	06	23	00			13.8		Fog	20.1	1018.3	0.0	C	
62		2000	12	07	00	00			13.6		Fog	19.4	1018.3	0.0	C	
63		2000	12	07	01	00			12.8		Fog	18.9	1018.4	3.2	60	
64		2000	12	07	02	00			12.8		Fog	18.9	1018.4	3.2	60	
65		2000	12	07	03	00			12.1		Fog	18.9	1017.4	4.4	60	
66		2000	12	07	04	00			11.5		Clear	19.2	1017.5	3.4	50	
67		2000	12	07	05	00			12.7		Clear	19.2	1017.9	3.0	70	
68		2000	12	07	06	00			12.9		Clear	19.2	1018.2	2.3	70	
69		2000	12	07	07	00			11.9	13	5GY6.5/1.5	19.7	1018.9	1.3	60	
70		2000	12	07	08	00			11.7	13	5GY6.5/1.5	19.7	1019.9	2.4	50	
71		2000	12	07	09	00			11.9	13	5GY6.5/1.5	20.3	1020.4	4.3	50	
72		2000	12	07	10	00			12.5	14	5GY6/4	21.9	1020.7	2.6	50	
73		2000	12	07	11	00			12.1	13	5GY6/4	22.3	1020.2	4.4	60	
74		2000	12	07	12	00			12.3	13	5GY6/4	23.3	1019.1	3.0	60	
75		2000	12	07	13	00			13.8	14	5GY6/4	21.7	1017.2	4.8	300	

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark	
		Y	M	D	H	Min											Latitude
76		2000	12	07	14	00			14.8	0.8	5GY6/4	Fog	22.9	1016.1	3.4	280	
77		2000	12	07	15	00			14.2	1.1	5GY6/4	Fog	23.3	1016.1	2.8	270	
78		2000	12	07	16	00			14.3	1.0	5GY6/4	Fog	22.7	1015.7	2.2	150	
79	P19	2000	12	06	15	00	22°11'56"	113°42'00"	6.0	2.5	5G5/4	Clear	25.0	1016.3	1.5	30	
80		2000	12	06	16	00			6.6	2.5	5G5/4	Clear	24.2	1015.8	1.2	110	
81		2000	12	06	17	00			6.8	2.5	5G5/4	Clear	22.3	1016.3	1.2	130	
82		2000	12	06	18	00			7.1			Clear	21.2	1017.0	1.6	140	
83		2000	12	06	19	00			7.0			Clear	20.6	1017.4	2.4	140	
84		2000	12	06	20	00			7.0			Clear	20.4	1018.0	1.7	120	
85		2000	12	06	21	00			7.0			Clear	20.4	1018.7	0.0	C	
86		2000	12	06	22	00			6.6			Clear	20.2	1018.6	0.0	C	
87		2000	12	06	23	00			6.6			Clear	20.2	1018.5	0.0	C	
88		2000	12	07	00	00			6.6			Clear	19.2	1018.6	0.0	C	
89		2000	12	07	01	00			6.6			Clear	19.4	1018.9	1.3	30	
90		2000	12	07	02	00			6.0			Clear	19.3	1018.5	2.4	10	
91		2000	12	07	03	00			6.0			Clear	19.4	1017.9	1.4	10	
92		2000	12	07	04	00			6.9			Clear	19.4	1018.3	2.2	30	
93		2000	12	07	05	00			7.6			Clear	19.3	1018.9	1.8	60	
94		2000	12	07	06	00			6.8			Clear	19.2	1018.9	1.6	40	
95		2000	12	07	07	00			6.9	2.5	5G3.5/7	Clear	19.2	1020.2	2.8	360	
96		2000	12	07	08	00			6.9	2.8	5G3.5/7	Clear	19.1	1020.7	2.8	10	
97		2000	12	07	09	00			6.5	2.7	5G5/4	Clear	21.4	1020.9	1.5	330	
98		2000	12	07	10	00			6.6	2.5	5G5/4	Clear	22.1	1021.0	1.7	10	
99		2000	12	07	11	00			6.3	2.5	5G5/4	Clear	23.1	1020.1	3.0	10	
100		2000	12	07	12	00			6.2	2.3	10GY4.5/7	Clear	25.3	1018.4	1.5	10	

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

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Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
	Y	M	D	H	Min										
101	2000	12	07	13	00		6.1	7	10GY4.5/7	Clear	24.5	1017.8	2.3	15	
102	2000	12	07	14	00		6.2	7	10GY4.5/7	Clear	24.5	1016.3	0.9	10	
103	2000	12	07	15	00		6.5	7	10GY4.5/7	Clear	24.7	1015.7	0.0	C	
104	2000	12	07	16	00		6.8	6	10GY4.5/7	Clear	25.4	1015.7	2.0	140	
105	P20	2000	12	05	10	00	22° 11' 55"	113° 47' 56"	5GY6/4	Fog	18.9	1019.7	5.0	30	
106		2000	12	05	11	00			5GY6/4	Fog	19.4	1019.1	5.6	40	
107		2000	12	05	12	00			5GY6/4	Fog	20.2	1018.0	5.2	40	
108		2000	12	05	13	00			5GY6/4	Fog	19.5	1016.8	5.3	50	
109		2000	12	05	14	00			5GY6/4	Fog	20.1	1015.8	4.1	10	
110		2000	12	05	15	00			5GY6/4	Fog	20.1	1015.3	4.0	20	
111		2000	12	05	16	00			5GY6/4	Fog	20.1	1014.7	4.2	80	
112		2000	12	05	17	00			5GY6/4	Fog	20.1	1015.9	5.0	100	
113		2000	12	05	18	00				Fog	19.9	1015.1	8.4	120	
114		2000	12	05	19	00				Fog	19.7	1017.9	4.0	90	
115		2000	12	05	20	00				Fog	19.7	1018.4	4.2	90	
116		2000	12	05	21	00				Fog	18.9	1018.3	4.2	90	
117		2000	12	05	22	00				Fog	19.9	1018.9	5.4	80	
118		2000	12	05	23	00				Fog	19.7	1018.9	5.2	80	
119		2000	12	06	00	00				Fog	20.1	1018.4	5.2	80	
120		2000	12	06	01	00				Fog	19.5	1017.9	3.7	60	
121		2000	12	06	02	00				Fog	19.3	1017.9	4.0	60	
122		2000	12	06	03	00				Fog	18.9	1017.7	3.5	60	
123		2000	12	06	04	00				Fog	18.9	1017.7	3.2	40	
124		2000	12	06	05	00				Fog	18.9	1017.4	4.2	40	
125		2000	12	06	06	00				Fog	17.9	1017.4	5.0	30	

HYDROLOGICAL DATA SHEET ON DRY SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY
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Total page 7

Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
	Y	M	D	H	Min										
126	2000	12	06	07	00		2.9	13	5GY6/4	Fog	17.9	1017.4	4.8	30	
127	2000	12	06	08	00		2.9	13	5GY6/4	Fog	19.4	1019.4	2.4	30	
128	2000	12	06	09	00		1.5	13	5GY6/4	Fog	20.1	1019.9	3.8	40	
129	2000	12	06	10	00		2.7	13	5GY6/4	Fog	20.3	1020.6	3.6	110	
130	2000	12	06	11	00		2.9	13	5G5/4	Fog	20.9	1020.3	3.0	70	
131	P22	2000	12	5	10	00	22°05'08"	113°47'01"	5G3.5/7	Clear	21.1	1020.0	5.2	20	
132		2000	12	5	11	00			5G6/8	Clear	21.3	1019.3	5.0	340	
133		2000	12	5	12	00			5G6/8	Clear	22.0	1016.3	6.2	330	
134		2000	12	5	13	00			5G6/8	Clear	22.4	1016.1	5.6	360	
135		2000	12	5	14	00			5GY6/4	Clear	22.2	1015.8	5.6	10	
136		2000	12	5	15	00			5G3.5/7	Clear	23.6	1015.1	3.4	40	
137		2000	12	5	16	00			5GY6/4	Clear	22.8	1015.4	5.2	90	
138		2000	12	5	17	00			5G5/4	Clear	22.4	1015.4	4.0	110	
139		2000	12	5	18	00				Overcast	20.8	1016.6	4.8	90	
140		2000	12	5	19	00				Clear	20.4	1017.6	5.0	80	
141		2000	12	5	20	00				Clear	20.4	1018.1	3.9	80	
142		2000	12	5	21	00				Clear	20.4	1018.3	4.7	80	
143		2000	12	5	22	00				Clear	20.1	1018.7	2.7	70	
144		2000	12	5	23	00				Clear	20.3	1019.2	4.2	70	
145		2000	12	6	00	00				Clear	20.2	1019.1	4.4	70	
146		2000	12	6	01	00				Clear	20.4	1018.7	5.0	40	
147		2000	12	6	02	00				Clear	20.1	1017.6	5.4	60	
148		2000	12	6	03	00				Clear	20.0	1017.6	6.8	50	
149		2000	12	6	04	00				Clear	20.0	1017.5	5.8	50	
150		2000	12	6	05	00				Clear	20.0	1017.3	4.3	30	

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

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No	Point No	Sampling time			Position		Water depth (m)	Transparency (m)	Water color (No)	Japan water color	Weather	Air temperature (°C)	Air pressure (hPa)	Wind speed (m/s)	Wind direction (°)	Remark
		Y	M	D	H	Min										
151		2000	12	6	06	00					Clear	19.9	1018.7	2.6	40	
152		2000	12	6	07	00		2.1	5	5B4.5/5	Overcast	19.8	1019.0	5.4	50	
153		2000	12	6	08	00		2.3	5	5G5/4	Clear	20.3	1019.5	4.9	50	
154		2000	12	6	09	00		2.2	5	5G5/4	Clear	21.0	1020.7	3.5	50	
155		2000	12	6	10	00		2.1	6	5G5/4	Clear	22.1	1020.2	3.3	60	
156		2000	12	6	11	00		2.5	6	5G5/4	Clear	21.4	1020.2	5.1	70	