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

	Deint Nie	Wet weight biomass	No.	Point No.	Wet weight biomass
No.	Point No.	(mg/m ³)	INO.	FOIR NO.	(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

Printer:Huang Ya Liang,Xu Zhi Bing Checker:Ou Qiang,Wei Gui Qiu Examiner:Zhong Si Sheng

g/m² P07 ind/m² 1.18 g/m² P06ind/m² 10.00g/m² POS ind/m² g/m² P04 ind/m² g/m² P03 ind/m² g/m² P02 ind/m² g/m² P01 ind/m² Stn. No. Architectonica perspectiva Cophiotoma leucotropis Phyllodoce madeirensis Nassarius siquijorensis Mabellarca consociata Potamocorbula laevis Nassarius variciferus Nassarius succinctus Phyllodoce chinensis Cuspidaria chinensis Nassarius hepaticus Cavernularia obesa Species name Terebra dussumieri Scapharca globosa Macoma praerupta Mocrella jedoensis Corbicula fluminea Turritella bacillum Inquistor flavidula Solen dunkerianus Minolia chinensis Nassarius festivus Cerebratulina sp. Sinum javanicum Dosinia japonica Turricula nelliae Paphia undulata Oliva mustelina Siliqua minima Chione scabra 2 PLATHELMINTHES Elasmodes sp. Natica tigrina Eulalia viridis Nucula tenus Murex trapa **3 NEMERTINEA** 4 MOLLUSCA 33 ANNELIDA CNIDARIA No. Phylum 6 34 8 1 13 4 18 19 20 21 22 23 25 26 28 29 đ 10 Π 15 16 17 27 30 32 31

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

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P07	ind/m ² g/m^2																	5.00 0.13																	
	g/m ² inc							,										0.15																	
P06	ind/m ²				_													10.00																	
P05	m ² g/m ²				-				-																				_						
	g/m ² ind/m ²																			-															
P04	ind/m ² g																																		
P03	2 g/m ²																																		
	ind/m				.25																							-							
P02	ind/m ² g/m ²				2.50 0.																														
P01	g/m ²																																		
	ind/m ²																																		
Stn. No.		r	vleskyi		hacto	sis			poda		indola		ngatus		10			rmis	oides		ч [.]		ostris			us leptopus		1S	S	erus)es	tus	osus	nochii
	Species name	Hesione intertexta	Tylonereis bogoyawleskyi	Glycera alba	Aglaophamus lyrochaeto	Aglaophamus sinensis	Diopatra variabilis	Marphysa belli	Lumbrineris heteropoda	Lumbrineris nagae	Schistomeringos rudolphi	Schistomeringos sp.	Haploscoloplos elongatus	Polydora sp.	Cossurella dimorpha	Sternaspis scutata	Capitella capitata	Heteromastus filiformis	Euclymene lombricoides	Ophelia acuminata	Terebellides stroemi	Limnodriloides sp.	Listriolobus brevirostris	Balanus reticulatus	Alpheus rapacida	Alpheus malabaricus leptopus	Alpheus sp.	Upogebia spinifrons	Raphidopus ciliatus	Hexapinus granuliferus	Eucrate costata	Scalopidia spinosipes	Typhlocarcinus nudus	Typhlocarcinus villosus	Xenophthalmodes moebii
	m						-			.		-		<u> </u>		<u> </u>	.							58 ARTHROPODA											
	No. Phylum	36 ANN	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57 ECHIURA	58 ART	59	60	61	62	63	64	65	66	67	68	60

	Sta. No.	P01		P02	5	P03	ر	P04	. 1	P05	5	P06	16	P07	7
No. Phylum		ind/m ²	g/m ²	g/m ² ind/m ² g/m ²	g/m ²	ind/m ² g/m ² ind/m ² g/m ² ind/m ² g/m^2	g/m²	ind/m ²	g/m ²	ind/m ²	g/m ²		g/m ²	ind/m^2 g/m^2 ind/m^2 g/m^2	g/m^2
I ARTHROPODA V	Varuna litterata					25.00	4.88	22.50	9.20						
2	Oratosquilla oratoria														
73 ECHINODERMATA Amphioplus laevis	mphioplus laevis														
74 74	Amphioplus depressus													-	
75	Acaudina molpadioides												-		
76	Protankyra bidentata														
77 VERTEBRATA 0	Oxyurichthys tentacularis														
8	Ctenotrypauchen microcephalus									5					
0	Odontamblyopus rubicundus	2.50	15.50												

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

		Stn. No.		P08	60d	6	P10		P11		P12		P13	3	P14	4
No. I	Phylum	Species name	ind/m ²	g/m ²												
1	1 CNIDARIA	Cavernularia obesa				0.95	2.50		2.50	1.50						
2 F	2 PLATHELMINTHES													_		
3 1	NEMERTINEA															
4	4 MOLLUSCA	Minolia chinensis														
5		Turritella bacillum						_								
9		Natica tigrina														
7		Sinum javanicum														
8		Murex trapa														
6		Nassarius festivus														
10		Nassarius variciferus							2.50	0.63	12.50	4.70				
11		Nassarius succinctus							2.50	0.43	7.50	1.08				
12		Nassarius siquijorensis							2.50	0.38	10.00	1.73			_	
13		Nassarius hepaticus												_		
14		Oliva mustelina														
15		Turricula nelliae														
16		Inquistor flavidula														
17		Lophiotoma leucotropis														
18		Terebra dussumieri														
19		Architectonica perspectiva														
50		Nucula tenus									17.50	1.33				
21		Mabellarca consociata														
22		Scapharca globosa														
23		Macoma praerupta														
24		Moerella jedoensis														
25		Solen dunkerianus														
26		Siliqua minima														
27		Corbicula fluminea														
28		Paphia undulata														
29		Dosinia japonica														
30		Chione scabra														
31		Potamocorbula laevis	25.00	1.20					19320.00	1050.00	27125.00	437.50				
32		Cuspidaria chinensis														
33	33 ANNELIDA	Eulalia viridis												ļ		
34		Phyllodoce madeirensis												-		
35		Phyllodoce chinensis	2.50	0.28	2.50	0.13										

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

Stn. No.	PI	iãi	P09	9	PI	P10 ⁷	P11 1 2 P11		P12	2 ²		ind/m	그ㄴ
Species name	ind/m ⁻	g/m²	ind/m*	g/m ⁻	_m/bui	g/m	_m/bri	e/m	_m/bui	g/m_	/a/pui	g/m Ind/m	g/m
Tvlonereis bogovawleskyi			2.50	0.88	20.00	10.25							
Glycera alba	2.50	0.23	7.50	1.13									
Aglaophamus lyrochaeto							1		7.50	0.10			
Aglaophamus sinensis											_	_	
Diopatra variabilis			2.50	0.08									
Marphysa belli			2.50	0.13									
Lumbrineris heteropoda													
Lumbrineris nagae													
Schistomeringos rudolphi													
Schistomeringos sp.													
Haploscoloplos elongatus													
Polydora sp.													
Cossurella dimorpha													
Sternaspis scutata													
Capitella capitata											5.00	0.13	
Heteromastus filiformis			10.00	0.30			5.00	0.13	2.50	0.13		5.00	0.28
Euclymene lombricoides													
Ophelia acuminata													
Terebellides stroemi			5.00	0.18									
Limnodriloides sp.													
Listriolobus brevirostris													-
Balanus reticulatus		_							20.00	0.08			
Alpheus rapacida			2.50	0.35									
Alpheus malabaricus leptopus													
Alpheus sp.									2.50	0.20			
Upogebia spinifrons													
Raphidopus ciliatus													
Hexapinus granuliferus									2.50	0.08			
Eucrate costata			2.50	6.90									-
Scalopidia spinosipes						_							
Typhlocarcinus nudus													
Typhlocarcinus villosus													
Xenophthalmodes moebii												-	
Neoxenophthalmus obscurus													

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

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	Stn. No.	P08	P09		P10	0	P11		P12		P13	3	P14	++
No. Phylum		ind/m ² g/m ²	ind/m ² g/m ² ind/m ² g/m ²	g/m ²	ind/m ²	g/m ²	ind/m ² g/m ²	g/m ²	ind	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²
71 ARTHROPODA	Varuna litterata													
72	Oratosquilla oratoria													
73 ECHINODERMATA Amphioplus laevis	Amphioplus laevis						5.00	0.20						
74	Amphioplus depressus		2.50	0.45										
75	Acaudina molpadioides													
76	Protankyra bidentata													
77 VERTEBRATA	Oxyurichthys tentacularis													
78	Ctenotrypauchen microcephalus		 											
79	Odontamblyopus rubicundus												2.50	2.50 0.53

	Stn. No.	P15	P16	P17	P18	P19		P20	P21
No. Phylum	Species name	ind/m ² g/m ²	ind/m ² g/	m^2	ind/m ² g/m ²	ind/m ² g/m ²			
I CNIDARIA	Cavernularia obesa								
2 PLATHELMINTHES Elasmodes sp.	5 Elasmodes sp.					5.00	0.80		-
3 NEMERTINEA	Cerebratulina sp.						_		
4 MOLLUSCA	Minolia chinensis								
5	Turritella bacillum					7.50	31.88	7.50 1.60	
9	Natica tigrina								
7	Sinum javanicum								
8	Murex trapa							2.50 2.05	5
6	Nassarius festivus							32.50 08	20
10	Nassarius variciferus								
11	Nassarius succinctus					7.50	0.78	22.50 2.05	2
12	Nassarius siquijorensis							60.00 4.08	3
13	Nassarius hepaticus								
14	Oliva mustelina					2.50	0.18	5.00 0.18	5
15	Turricula nelliae							2.50 1.08	8
16	Inquistor flavidula				_			2.50 0.90	(
17	Lophiotoma leucotropis								
18	Terebra dussumieri							10.00 1.43	-
19	Architectonica perspectiva							2.50 0.20	-
20	Nucula tenus]			5.00	0.65		
21	Mabellarca consociata								
22	Scapharca globosa						_	2.50 0.55	
23	Macoma praerupta								_
24	Moerella jedoensis								
25	Solen dunkerianus						-	2.50 0.28	20
26	Siliqua minima								
27	Corbicula fluminea							2.50 0.23	÷
28	Paphia undulata			_	2.50 1.38	7.50	27.88		_
29	Dosinia japonica								
30	Chione scabra					2.50	0.08		
31	Potamocorbula laevis			5.00 0.35	S	8437.50 3	312.50	12.50 0.35	2
32	Cuspidaria chinensis							2.50 0.13	
33 ANNELIDA	Eulalia viridis		2.50 2.03	3					
34	Phyllodoce madeirensis								
35	Phyllodoce chinensis								

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

Table Species, individuals and wet weight of Benthos in Pearl River Estuary: Rainy s	season - 8
able Species, individuals and wet weight of Benthos in Pearl River	<u>ч</u>
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	g/m ²	0.15		0.73		0.30			0.20									0.20							0.43							0.80		0.23		1.08
P21	ind/m ²	2.50		2.50		2.50			2.50									2.50							2.50							2.50		5.00	┥	2.50
	g/m ² i																								3.70	0.13		0.20								
P20	ind/m ²							_																	20.00	2.50		5.00								
	g/m ² i	-			0.05				0.05			0.05				0.15		0.08						8.58						0.10						
P19	ind/m ²				2.50				2.50			2.50				5.00		5.00						147.50						2.50		- 1				
8	g/m ²																0.08													0.30						0.73
P18	ind/m ²																2.50													5.00						2.50
-	g/m ²				_													0.60												0.08						
PI	ind/m ²																	12.50												2.50						
P16	g/m ²			1.05																								0.13		0.08						1.68
P1	ind/m ²			2.50																								2.50		2.50						7.50
PIS	g/m ²																	0.10																		
a.	ind/m ²																-	2.50			[
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	1	exta	goyawlesk		lyrochaet	sisuəuis	abilis	i I	eteropode	agae	diopni so	.ds so.	os elongat		norpha	itata	tata	filiformis	nbricoide	inata	troemi	s sp.	revirostri	ulatus	cida	baricus le		ufrons	iliatus	anuliferus	ta	inosipes	as nudus	us villosu	odes moel	almus obs
	Species name	Hesione intertexta	Tylonereis bogoyawleskyi	Glycera alba	Aglaophumus lyrochaeto	Aglaophamus sinensis	Diopatra variabilis	Marphysa belli	umbrineris heteropoda	Lumbrineris nagae	Schistomeringos rudolphi	Schistomeringos sp.	Haploscoloplos elongatus	Polydora sp.	Cossurella dimorpha	Sternaspis scutata	Capitella capitata	Heteromastus filiformis	Euclymene lombricoides	Ophelia acuminata	Terebellides stroemi	Limnodriloides sp.	Listriolobus brevirostris	Balanus reticulatus	Alpheus rapacida	Alpheus malabaricus leptopus	Alpheus sp.	Upogebia spinifrons	Raphidopus ciliatus	Hexapinus granuliferus	Eucrate costata	Scalopidia spinosipes	Typhlocarcinus nudus	Typhlocarcinus villosus	Xenophthalmodes moebii	Neoxenophthalmus obscurus
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	E	ANNELIDA																					URA	58 ARTHROPODA												
-	No. Phylum	36 ANNE	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57 ECHIURA	58 ARTI	59	60	61	62	63	64	65	66	67	68	69	12
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		Stn. No.	P1	5	P16	9	P17	7	P18	80	P19	9	P20	10	P21	1
No. Phylum	Species name		ind/m ²	g/m ²	g/m ² ind/m ² g/m ²		ind/m ² g/m ² ind/m ² g/m ²	g/m ²	ind/m ²	g/m ²	ind/m ² g/m ²		ind/m ²	g/m^2	nd/m ²	g/m²
71 ARTHROPODA	Varuna litterata													4		
72	Oratosquilla oratoria	a											2.50	2.85		
73 ECHINODERM.	73 ECHINODERMATA Amphioplus laevis														2.50	0.38
74	Amphioplus depressus	27														
75	Acaudina molpadioides	des			2.50	2.50 1.85										
76	Protankyra bidentata				15.00	15.00 23.45			7.50	7.08	- 1	22.50 27.68				
77 VERTEBRATA	Oxyurichthys tentacularis	ularis	2.50	0.10												
78	Ctenotrypauchen microcephalus	crocephalus														
79	Odontamblyopus rubicundus	Dicundus														

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

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

	Stn. No.	P	P22	P	P23	P24	14	P25	S	P26	9
No. Phylum	Species name	ind/m ²	g/m ²								
1 CNIDARIA	Cavernularia obesa						I I			2.50	9.85
2 PLATHELMINTHES Elasmodes sp.	Elasnodes sp.										
3 NEMERTINEA	Cerebratulina sp.					2.50	0.03				
4 MOLLUSCA	Minolia chinensis							52.50	4.45		
5	Turritella bacillum			5.00	6.13					55.00	85.65
6	Natica tigrina									2.50	6.15
7	Sinum javanicum	2.50	2.30								
8	Murex trapa									2.50	1.43
6	Nassarius festivus										
10	Nassarius variciferus					5.00	0.68				
11	Nassarius succinctus					5.00	0.30	7.50	1.73	17.50	2.98
12	Nassarius siquijorensis										
13	Nassarius hepaticus		*	2.50	0.53			5.00	I.13	2.50	0.25
14	Oliva mustelina							2.50	0.08		
15	Turricula nelliae			2.50	1.35					2.50	1.28
16	Inquistor flavidula										
17	Lophiotomu leucotropis			2.50	2.08	2.50	2.45				
18	Terebra dussumieri										
19	Architectonica perspectiva										
20	Nucula tenus										
21	Mahellarca consociata	2.50	19.00					2.50	16.78		
22	Scapharca globosa										
23	Macoma praerupta			2.50	1.80					10.00	11.93
24	Moerella jedoensis			2.50	0.78			2.50	0.50	2.50	0.55
25	Solen dunkerianus										
26	Siliqua minima			2.50	0.33	17.50	2.30			30.00	18.83
27	Corbicula fluminea										
28.	Paphia undulata	12.50	33.43	2.50	1.30						
29	Dosinia japonica			2.50	2.08						
30	Chione scabra										
31	Potamocorbula laevis					5.00	0.13	5.00	0.20	5.00	0.10
32	Cuspidaria chinensis										
33 ANNELIDA	Eulalia viridis										
34	Phyllodoce madeirensis					2.50	0.28	10.00	0.15		
35	Phyltodoce chinensis										

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

		Stn. No.	P22	12	P23	3	P.	P24	P.	P25	Å	P26
	Species name		ind/m ²	g/m ²	ind/m ²	g/m²						
	Hesione intertexta											
	Tylonereis bogoyawleskyi	eskyi										
	Glycera alba										2.50	0.68
	Aglaophamus lyrochaeto	aeto	7.50	3.85	2.50	2.50						
	Aglaophamus sinensis	is										
	Diopatra variabilis											
	Lumbrineris heteropoda	oda										
	Lumbrineris nagae								5.00	1.43		
	Schistomeringos rudolphi	olphi							2.50	0.05		
	Schistomeringos sp.											
	Haploscoloplos elongatus	gatus	5.00	0.10							5.00	0.60
	Polydora sp.						2.50	0.18				
	Cossurella dimorpha	1	2.50	0.08								3
	Sternaspis scutata										10.00	0.28
	Capitella capitata											, I
	Heteromastus filiformis	nis					10.00	0.20			7.50	0.70
	Euclymene lombricoides	ides							5.00	1.38		
	Ophelia acuminata		2.50	0.60								
	Terebellides stroemi											
	Limnodriloides sp.		5.00	0.30	5.00	1.35						
	Listriolobus brevirostris	stris	40.00	23.98					12.50	4.38		
58 ARTHROPODA	Balanus reticulatus											
	Alpheus rapacida		2.50	1.20								
	Alpheus malabaricus leptopus	s leptopus							10.00	0.63		
	Alpheus sp.											
	Upogebia spinifrons											
	Raphidopus ciliatus		2.50	0.45					2.50	0.28		
	Hexapinus granuliferus	snz	35.00	3.70	10.00	0.55						
	Eucrate costata											
	Scalopidia spinosipes	S	2.50	0.65								
	Typhlocarcinus nudus	15							2.50	0.20		
	Typhlocarcinus villosus	sus										
	Xenophthalmodes moebii	ocbii	2.50	0.25								
	Neoxenophthalmus obscurus	obscurus			17.50	4.25						

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	Stn. No.	P22	12	P23	13	P24	4	P25	5	P26	.6
No. Phylum	Species name	ind/m ²	g/m ²	ind/m ² g/m ²	g/m ²	ind/m ²	g/m ²	ind/m ²	g/m ²	ind/m ² g/m ²	g/m ²
71 ARTHROPODA	Varuna litterata										
	Oratosquilla oratoria										
73 ECHINODERMATA	Amphioplus laevis	7.50	0.55	15.00	1.80			12.50	1.10		
	Amphioplus depressus										
	Acaudina molpadioides							2.50	0.63		
	Protankyra bidentata			2.50	1.43						
77 VERTEBRATA	Oxyurichthys tentacularis	5.00	7.63								
	Ctenotrypauchen microcephalus			2.50	11.70						
	Odontamblyopus rubicundus										

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

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腔肠动物门 Coelentera	ta
沙箸科 Veretillidae	
海仙人掌	Cavernularia obesa Milne Edwards et Hailme
扁形动物门 Plathyheln	ainthes
平角科 Planoceridae	
涡虫	Elasmodes sp.
纽形动物门 Nemertine	a
脑纽科 Cerebratulidad	
脑纽虫	Cerebratulina sp.
环节动物门 Annelida	
叶须虫科 Phyllodocic	lae
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 Hesionedae	
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 Nephtyid	ae
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 (Fabriceus)
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 Onuphida	ie
杂色巢沙蚕	Diopatra variabilis Southern
矶沙蚕科 Eunicidae	

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1-1

贝氏岩虫	Marphysa belli Audouin et M.Edwards
索沙蚕科 Lumbrinerii	dae
纳加索沙蚕	Lumbrineris nagae Gallardo
	Lumbrineris heteropoda (Marenzeller)
豆维虫科 Dorvilleidae	
叉毛豆维虫	Schistomeringos rudolphi (Chiaja)
	Schistomeringos sp.
不倒翁虫科 Sternaspi	dae
	Sternaspis scutata (Renier)
毛鳃虫科 Trichobrach	idae
梳鳃虫	Terebellides stroemii Sars
颤蚓科 Tubificidae	
沼蚓	Limnodriloides sp.
螠虫动物门 Echiura	
螠科 Echiuridae	
/= · · · / • -=	Listriolobus brevirostris Chen et Yeh
软体动物门 Mollusca	
胡桃蛤科 Nuculidae	
	Nucula (Nucula) tenus (Montagu)
蚶科 Arcidae	
胀毛蚶	Scapharca globosa (Reeve)
联珠蚶	Mabellarca consociata (Smith)
樱蛤科 Tellinidae	
	Moerella jedoensis (Lischke)
紫边白樱蛤	Macoma (Psammacoma) praerupta Salisbury
竹蛏科 Solenidae	
短竹蛏	Solen dunkerianusClessin
刀蛏科 Cultellidae	
小荚蛏	Siliqua minima Dunker
蚬科 Corbiculidae	
河蚬	Corbicula fluminea (Muller)
帘蛤科 Veneridae	
日本镜蛤	Dosinia(Phacosoma) japonica (Reeve)
粗雪蛤	Chione (Timoclea) scabra (Hanley)
波纹巴非蛤	Paphia (Paratapes) undulata (Born)
篮蛤科 Corbulidae	
光滑河篮蛤	Potamocorbula laevis (Hinds)
杓蛤科 Cuspidariidae	
中国杓蛤	Cuspidaria chinensis Griffith et Pidgeon

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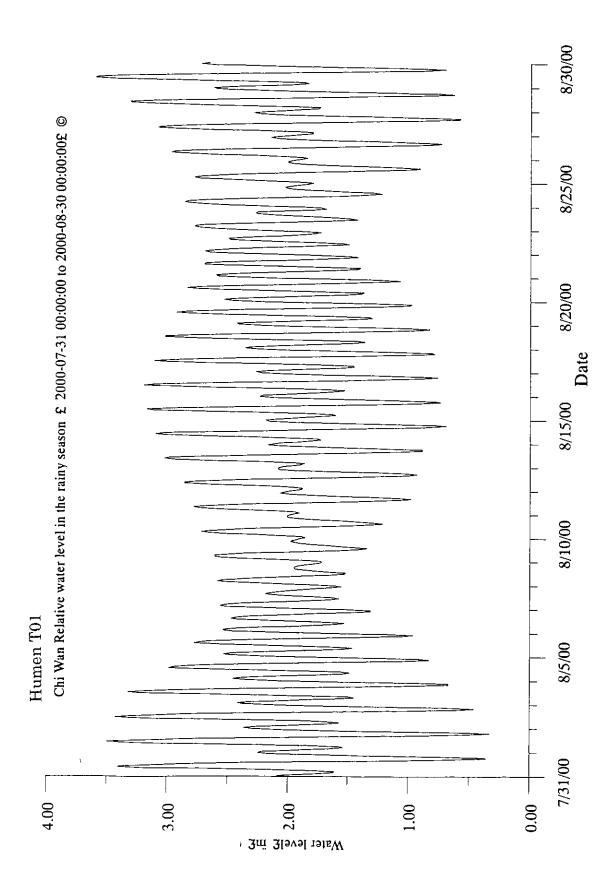
签在回到 Cinhonodonte	nliidae
管角贝科 Siphonodenta	Cadulus clavatus Gould
马蹄螺科 Trochidae	Vinalia chinangia Sowerby
	Minolia chinensis Sowerby
锥螺科 Turritellidae	Turritella bacillum Kiener
轮螺科 Architectonicid	
配景轮螺	Architectonica perspectiva (Linne)
玉螺科 Naticidae	W (in the in a (Dedine))
斑玉螺	Natica tigrina (Roding)
爪哇窦螺	Sinum javanicum (Griffith et Pidgeon)
骨螺科 Muricidae	
浅缝骨螺	Murex trapa Roding
织纹螺科 Nassariidae	
纵肋织纹螺	Nassarius (Varicinassa) variciferus (A. Adams)
秀丽织纹螺	Nassarius (Reticunassa) festivus (Powys)
红带织纹螺	Nassarius (Zeuxis) succinctus (A. Adams)
西格织纹螺	Nassarius (Zeuxis) siquijorensis (A. Adams)
节织纹螺	Nassarius (Zeuxis) hepaticus (Pulteney)
榧螺科 Olividae	· · ·
彾鼬榧螺	Oliva mustellina Lamarck
塔螺科 Turridae	
黄短口螺	Inquistor flavidula (Lamarck)
白龙骨乐飞螺	Lophiotoma leucotropis (Adams et Reeve)
假奈拟塔螺	<i>Turricula nelliae</i> (Hedley)
笋螺科 Terebridae	
白带笋螺	Terebra (Noditerebra) dussumieri Kiener
节肢动物门 Arthropoda	l
藤壶科 Balanidae	
网纹藤壶	Balanus reticulatus Utinomi
鼓虾科 Alpheidae	
窄足鼓虾	Alpheus malabaricus leptopus de Man
贪食鼓虾	Alpheus rapacida de Man
鼓虾	Alpheus sp.
蝼蛄虾科 Upogebiidae	;
刺额蝼蛄虾	Upogebia spinifrons (Haswell)
瓷蟹科 Porcellanidae	
绒毛细足蟹	Raphidopus ciliatus Stimpson
长脚蟹科 Goneplacida	e
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Printer:Wei Gui Qiu Checker: Huang Ya Liang Examiner:Zhong Si Sheng

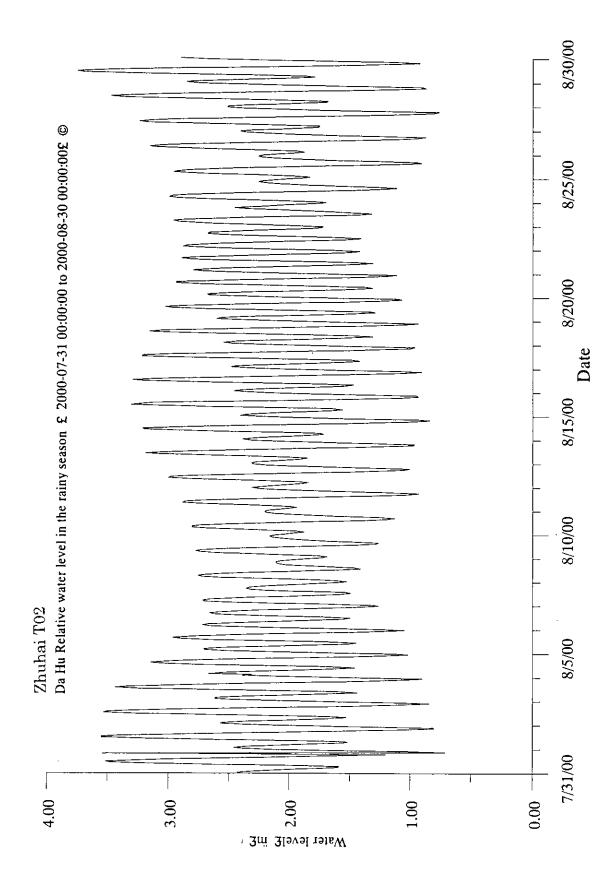
3-3

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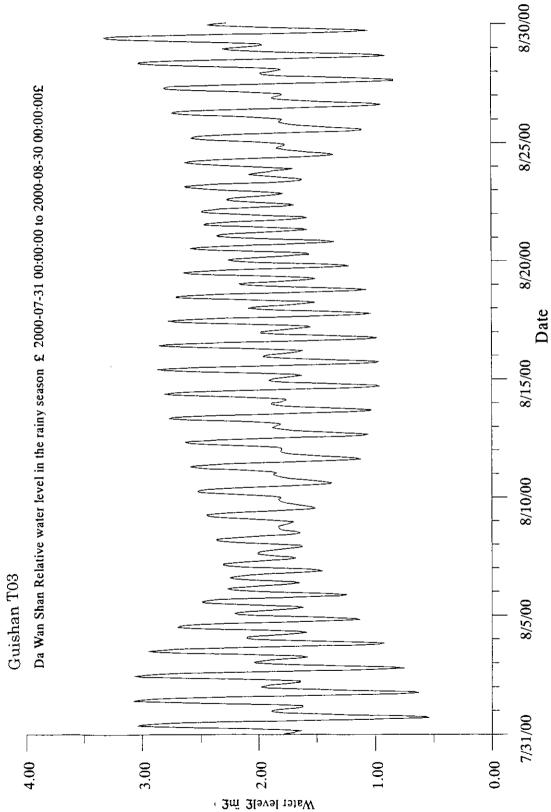
隆背强蟹	Eucrate costata Yang et Sun
毛盲蟹	Typhlocarcinus villosus Stimpson
裸盲蟹	Typhlocarcinus nudud Stimpson
刺足掘沙蟹	Scalopidia spinosipes Stimpson
颗粒六足蟹	Hexapus granuliferus Campbell et Stephenson
莫氏仿短眼蟹	Xenophthalmodes moebii Richters
豆蟹科 Pinnotheridae	
模糊新短眼蟹	Neoxenophthalmus obscurus (Henderson)
方蟹科 Grapsidae	
字纹弓蟹	Varuna litterata (Fabricius)
虾蛄科 Squillidae	
口虾蛄	Oratosquilla oratoria (de Haan)
棘皮动物门 Echinodern	nata
芋参科 Molpadiidae	
海地瓜	Acaudina molpadioides (Semper)
锚海参科 Synaptidae	
棘刺锚参	Protankyra bidentata (Woodard et Barrett)
阳遂足科 Amphiuridae	2
洼颚倍棘蛇尾	Amphioplus depressus (Ljungman)
光滑倍棘蛇尾	Amphioplus laevis (Lyman.)
脊索动物门 Chordata	
鰕虎鱼科 Gobiidae	
触角沟鰕虎鱼	Oxyurichthys tentacularis (Cuvier et Valenciennes)
鳗鰕虎鱼科 Taenioidia	dae
红狼牙鰕虎鱼	Odontamblyopus rubicundus (Hamilton-Buchanan)
小头栉孔鰕虎鱼	Ctenotrypauchen microcephalus (Bleeker)



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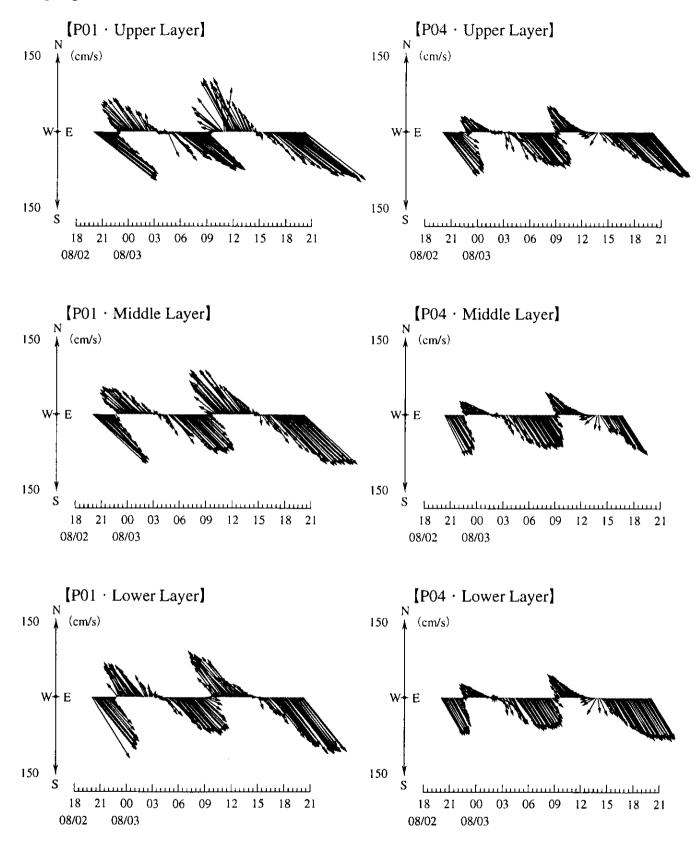


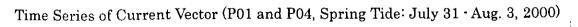


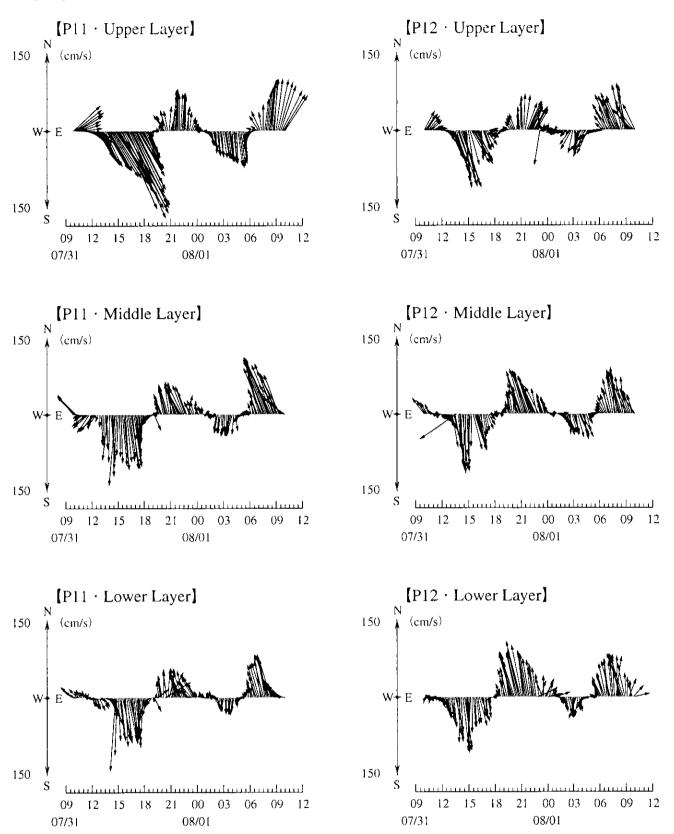


(Spring Tide)

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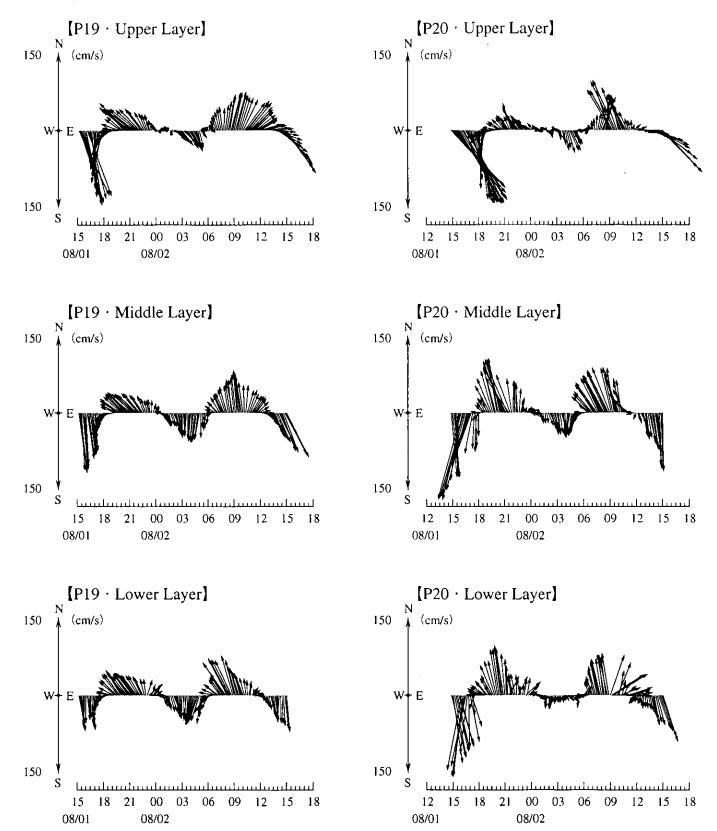




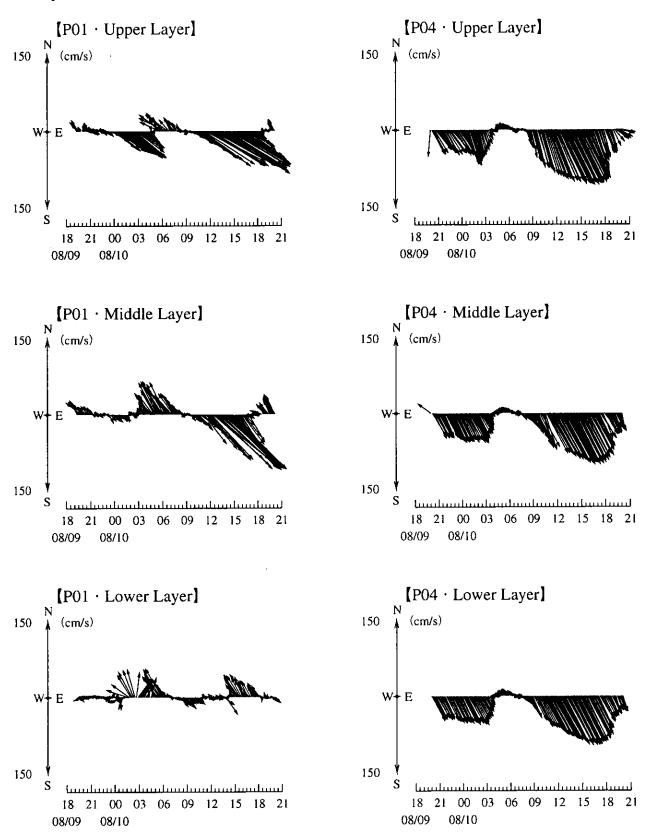


Time Series of Current Vector (P11 and P12, Spring Tide: July 31 · Aug. 3, 2000)

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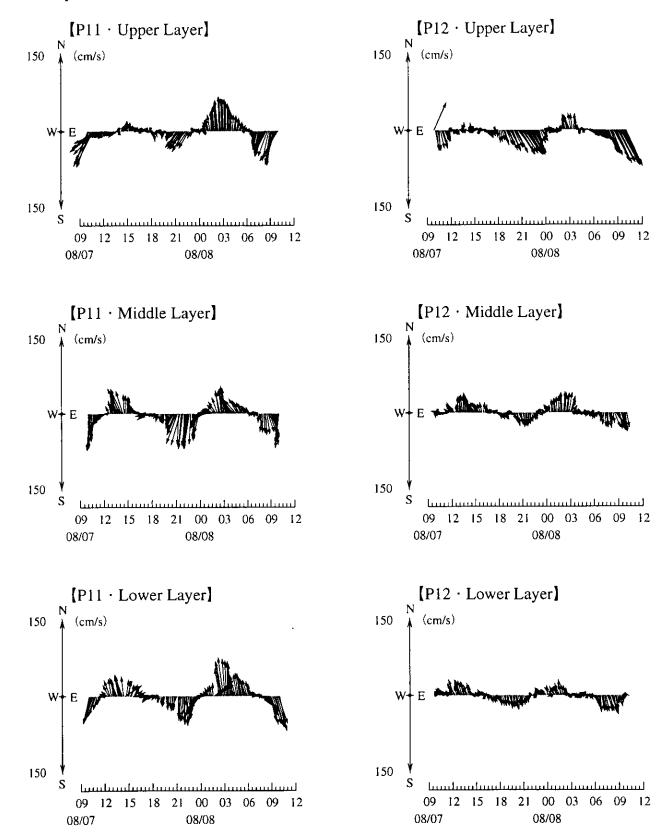
Time Series of Current Vector (P19 and P20, Spring Tide: July 31 · Aug. 3, 2000)



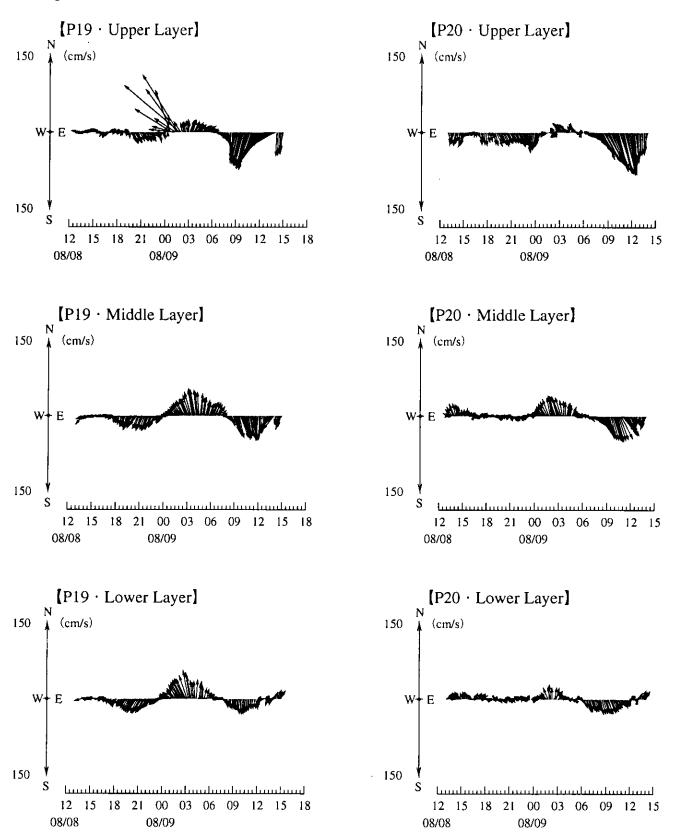
Time Series of Current Vector (P01 and P01, Neap Tide: Aug. 7 - Aug. 10, 2000)

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(Neap Tide)



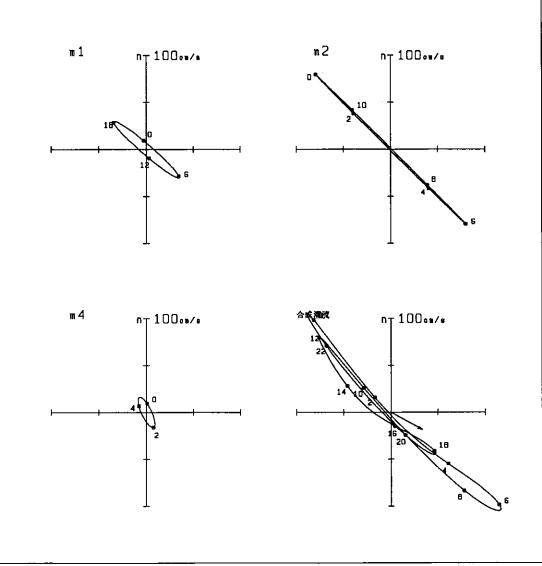
Time Series of Current Vector (P11 and P12, Neap Tide: Aug. 7 - Aug. 10, 2000)



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

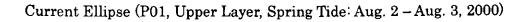
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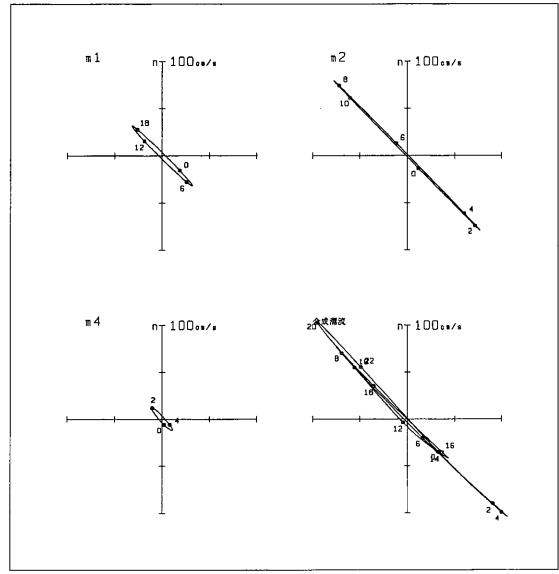
1.1



润点P01U,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.

/auto/ond4/axhd4/mori/ohina/data/Spring/S.pO1.up.br



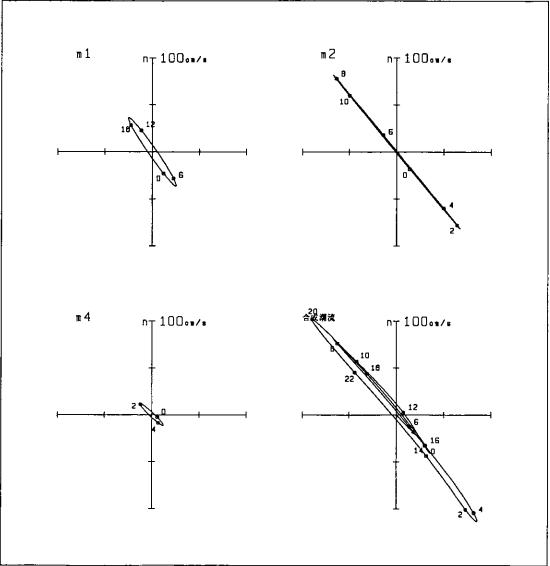


湖点P01M,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.

/auto/ond4/exhd4/mori/ohina/data/Spring/S.pO1.md.br

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

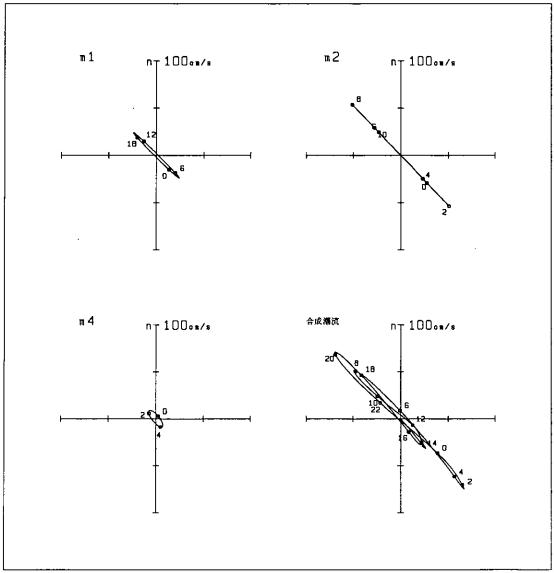
i



湖点P018,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.

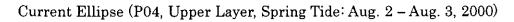
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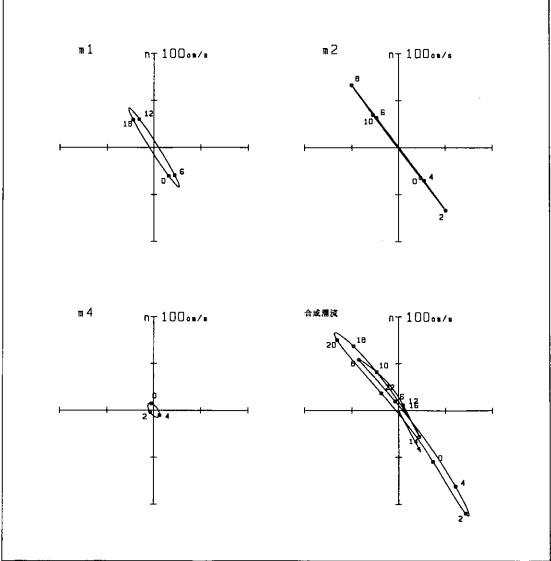
Current Ellipse (P01, Bottom Layer, Spring Tide: Aug. 2 – Aug. 3, 2000)



湖点PO4U,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.

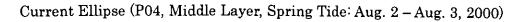




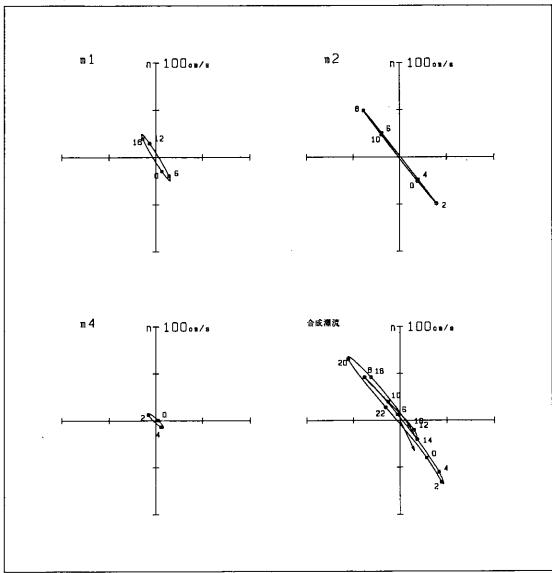


测点PO4M,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



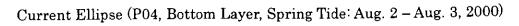


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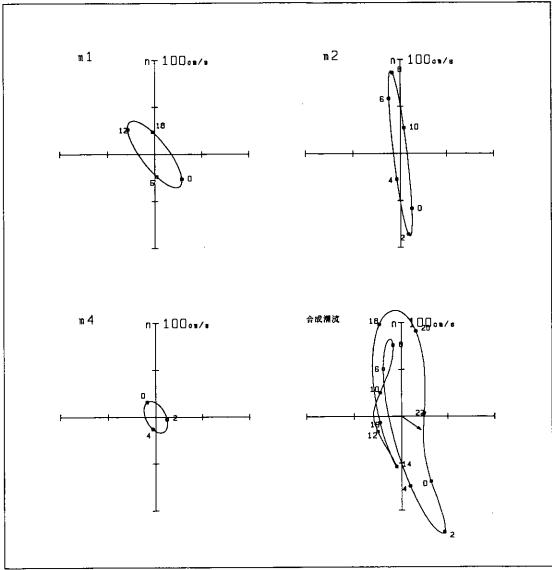


湖点P04B,海面下 0.00m. 解析期間 2000.8.2.~2000.8.3.



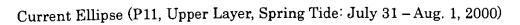


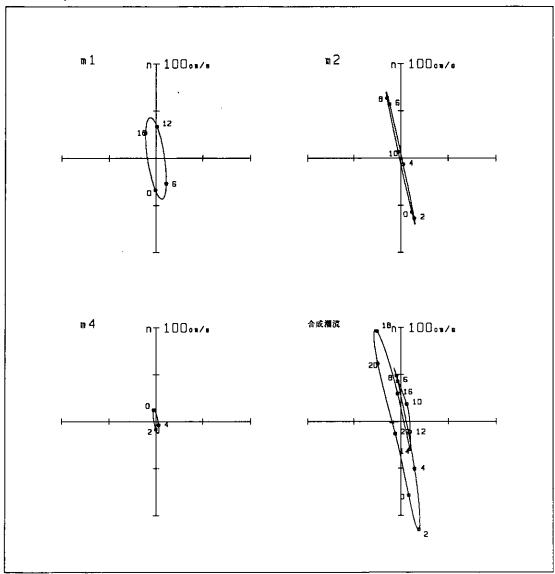
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潮点P11U,海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.

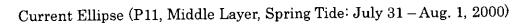


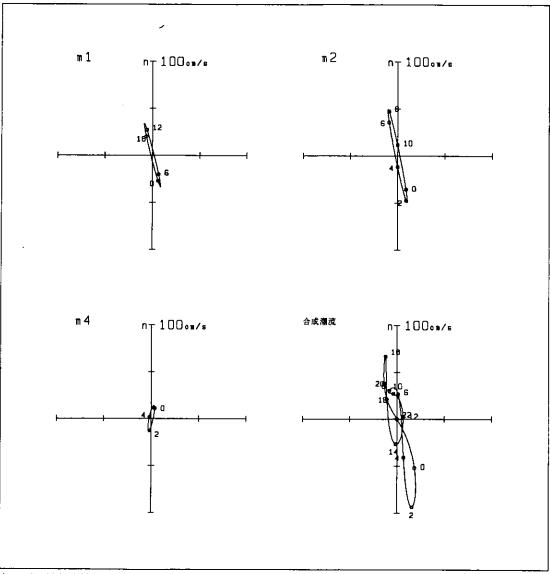




測点P11M,海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.

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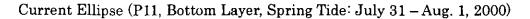


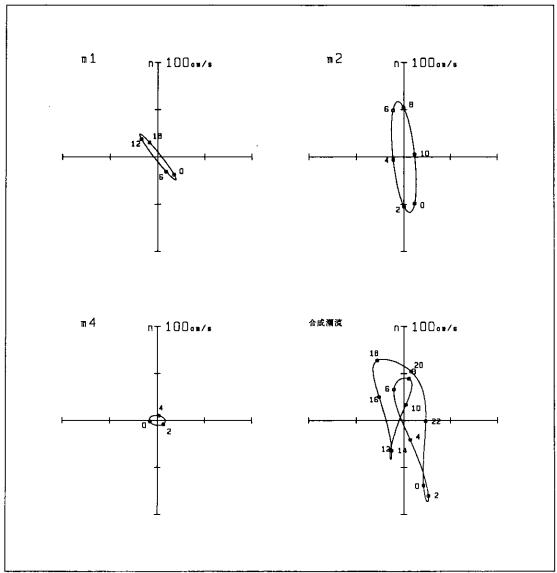


测点P118,海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.

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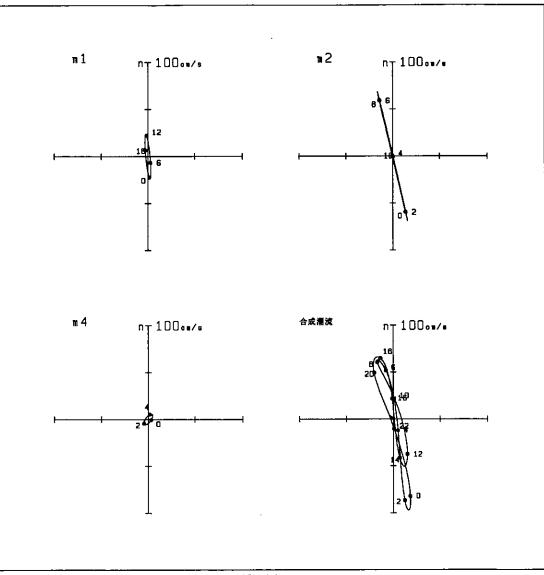




润点P12U,海面下 0.00m. 解析期間 2000.7.31.~2000.8.1.

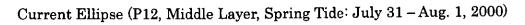
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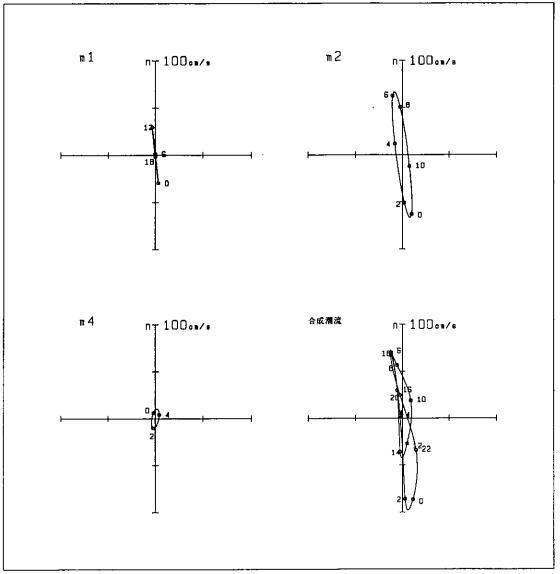
Current Ellipse (P12, Upper Layer, Spring Tide: July 31 – Aug. 1, 2000)



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



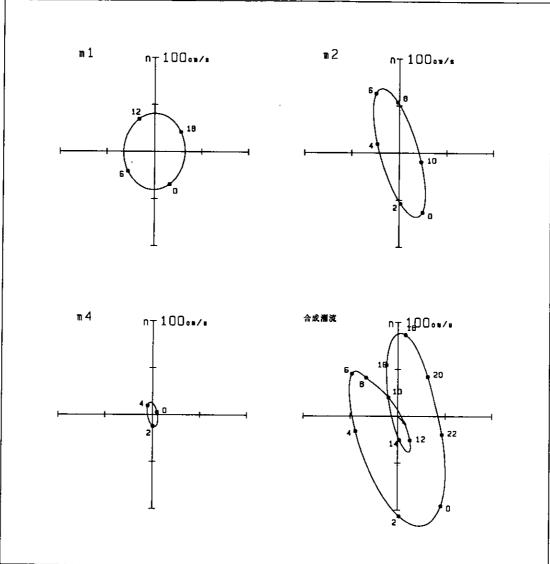




观点P128,海面下 0.00m。解析期間 2000.7.31.~2000.8.1.

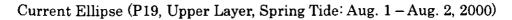
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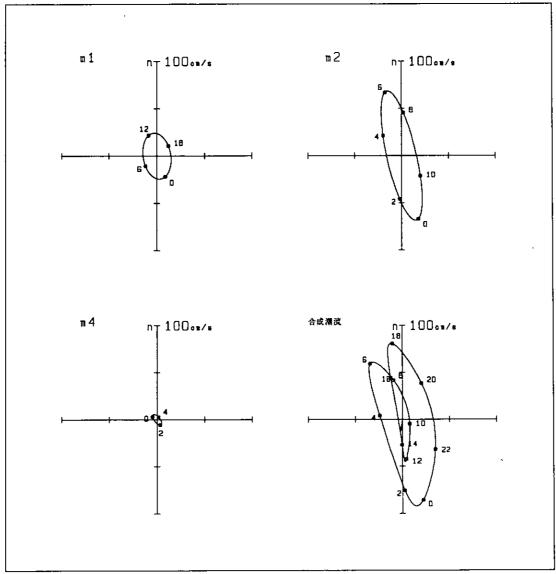
Current Ellipse (P12, Bottom Layer, Spring Tide: July 31 – Aug. 1, 2000)



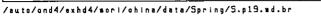
測点P19U,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.

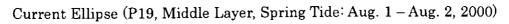


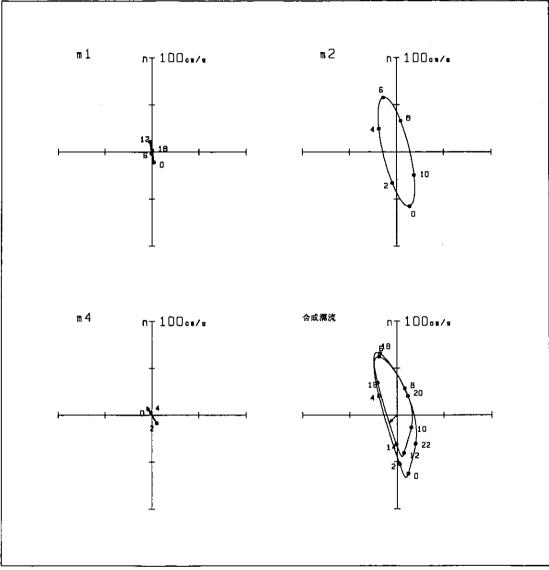




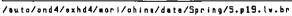
测点P19M,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.

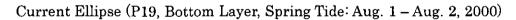


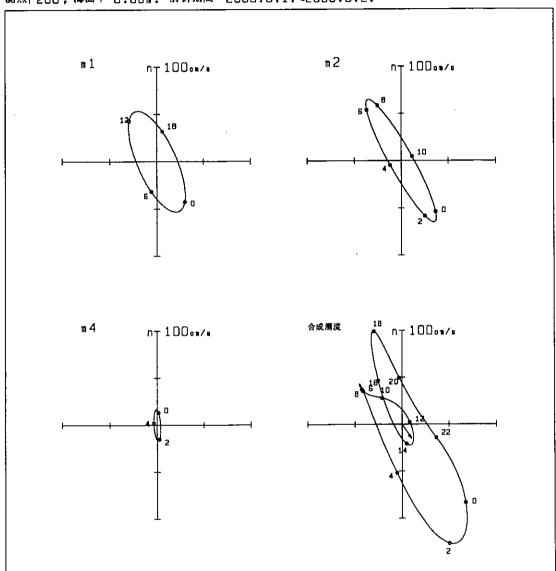




凝点P19B,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.

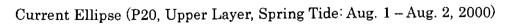


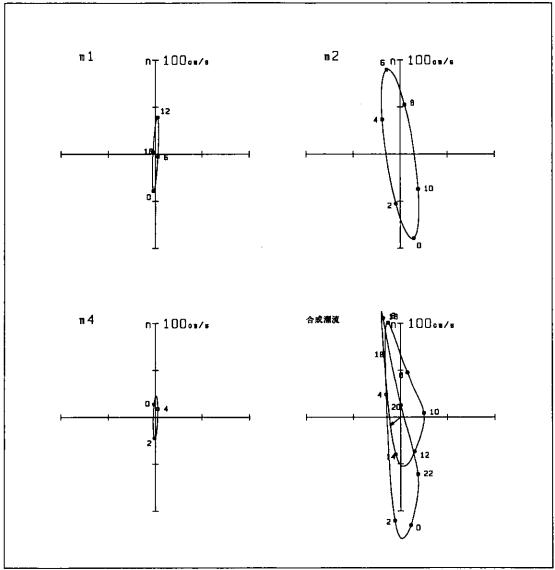




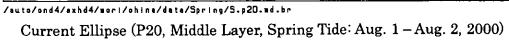
翘点P20U,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.

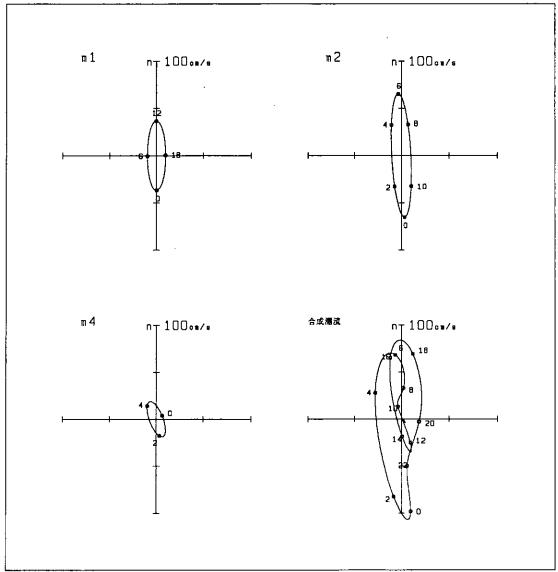
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测点P20M,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.



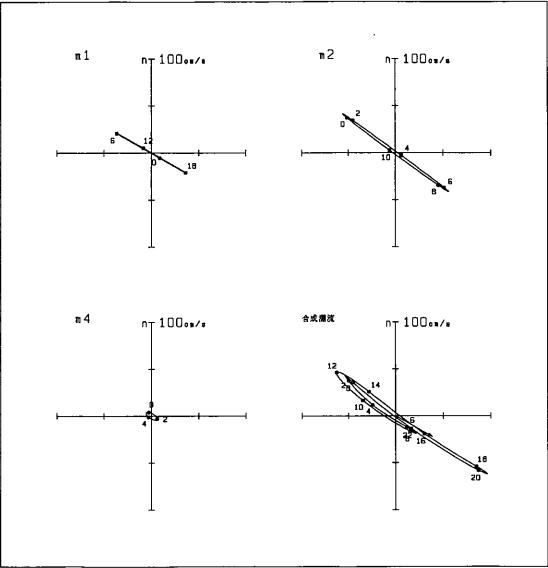


翘点P20B,海面下 0.00m. 解析期間 2000.8.1.~2000.8.2.

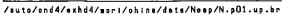
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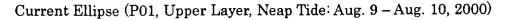
Current Ellipse (P20, Bottom Layer, Spring Tide: Aug. 1 – Aug. 2, 2000)

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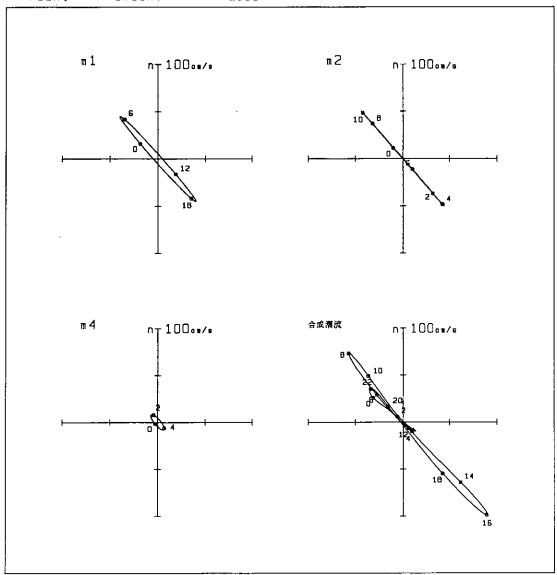


湖点P01U,海面下 0.00m。解析期間 2000.8.9.~2000.8.10.



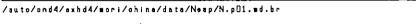


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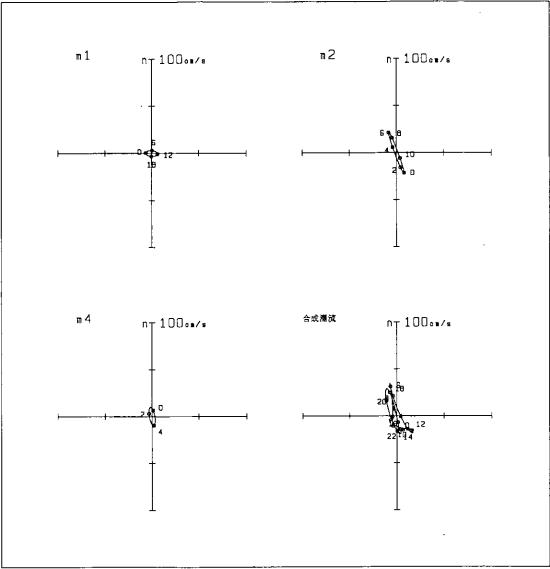


测点P01M,海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.

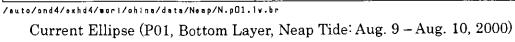
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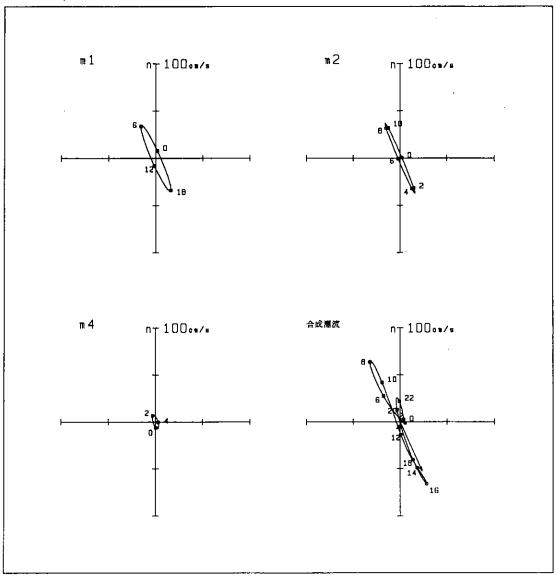


Current Ellipse (P01, Middle Layer, Neap Tide: Aug. 9 - Aug. 10, 2000)



测点PD18,海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.

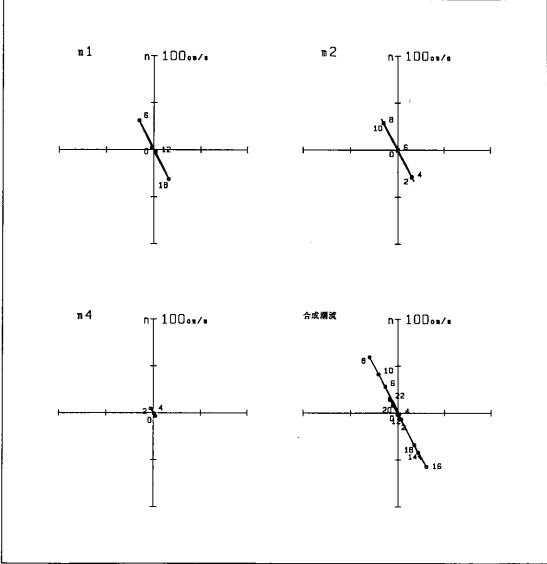




凝点P04U,海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.

/auto/ond4/exhd4/mori/ohina/data/Nsap/N.pD4.up.br

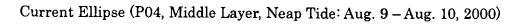
Current Ellipse (P04, Upper Layer, Neap Tide: Aug. 9 – Aug. 10, 2000)

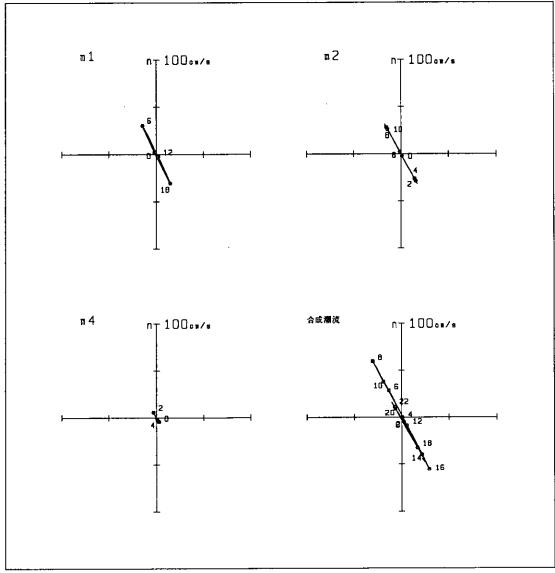


凝点PD4M,海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.

/auto/ond4/exhd4/mori/ohine/date/Neep/N.pD4.md.br

.

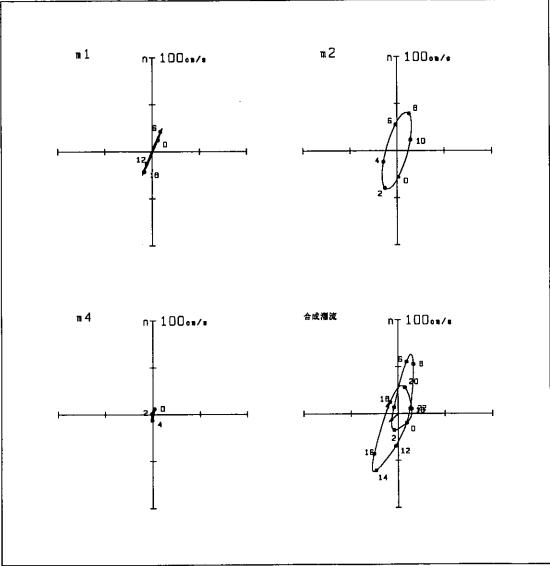




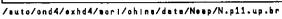
测点PO48,海面下 0.00m. 解析期間 2000.8.9.~2000.8.10.

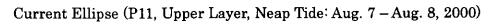


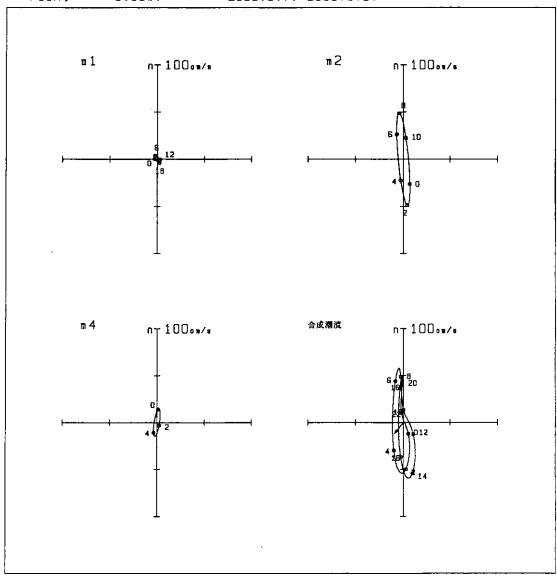
Current Ellipse (P04, Bottom Layer, Neap Tide: Aug. 9-Aug. 10, 2000)



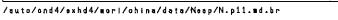
翘点P11U,海面下 C.COm. 解析期間 2000.8.7.~2000.8.8.



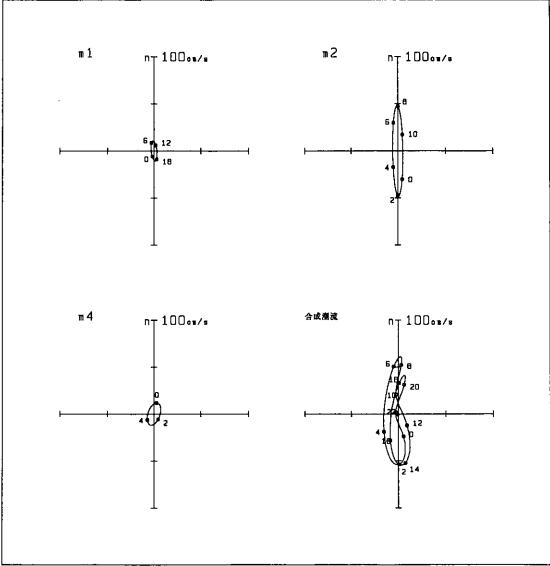




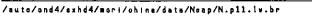
测点P11M,海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.

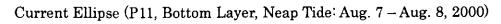


Current Ellipse (P11, Middle Layer, Neap Tide: Aug. 7 – Aug. 8, 2000)

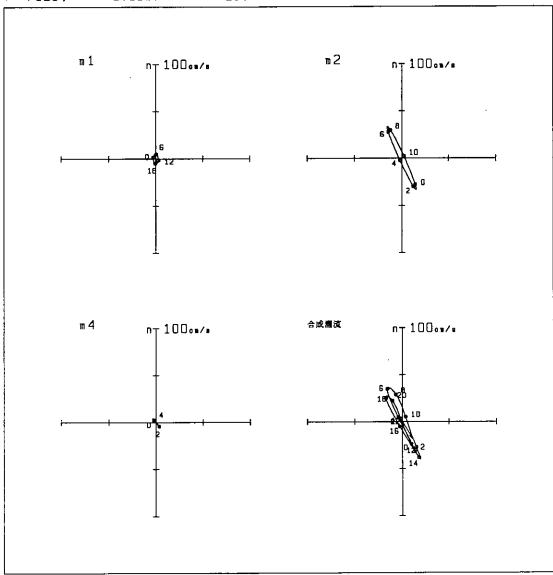


湖点P11B,海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.

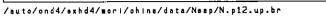




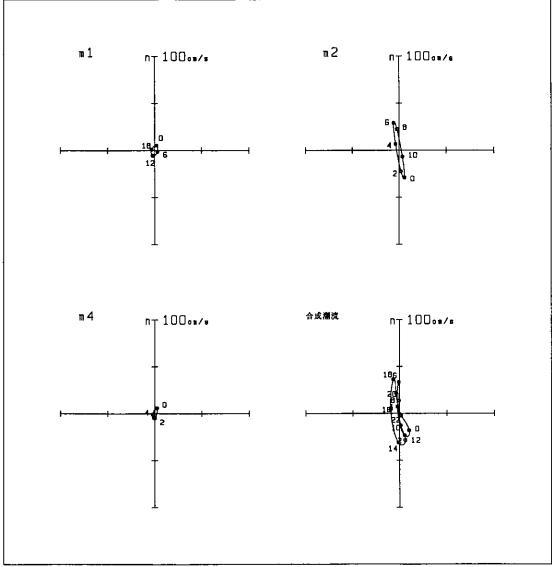
i.



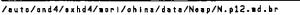
湖点P12U,海面下 0.00m。解析期間 2000.8.7.~2000.8.8.

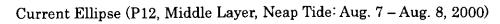


Current Ellipse (P12, Upper Layer, Neap Tide: Aug. 7 – Aug. 8, 2000)

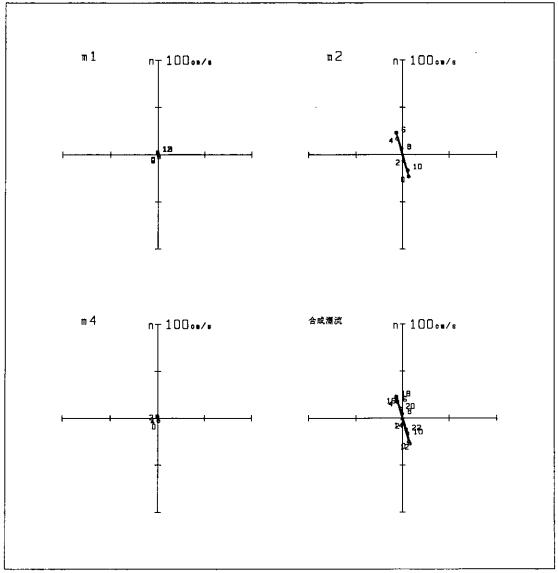


測点P12M,海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.





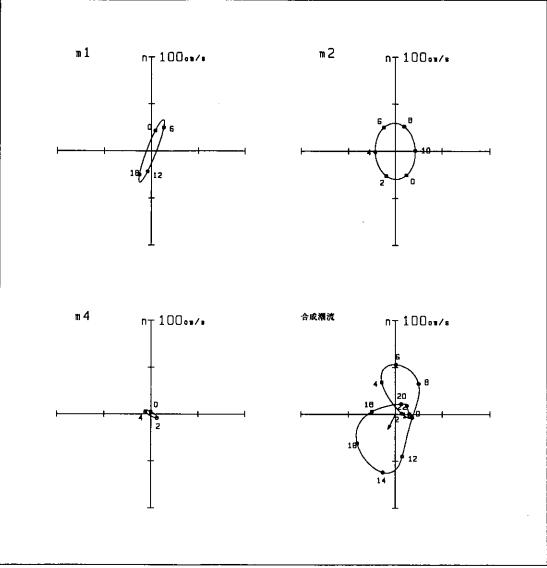
Т



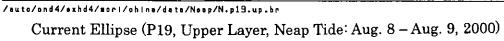
湖点P128,海面下 0.00m. 解析期間 2000.8.7.~2000.8.8.

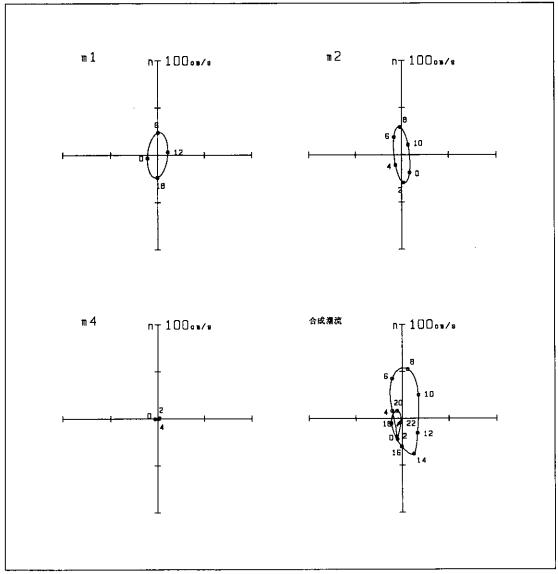


Current Ellipse (P12, Bottom Layer, Neap Tide: Aug. 7 – Aug. 8, 2000)



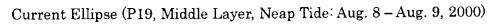
测点P19U,海面下 0.00m。解析期間 2000.8.8.~2000.8.9.

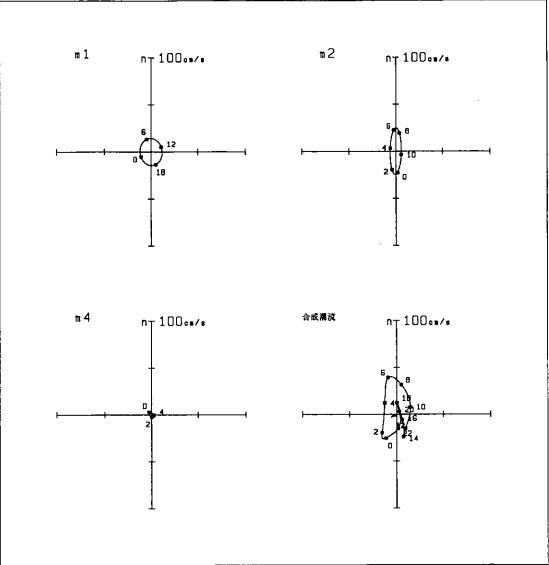




测点P19M,海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.





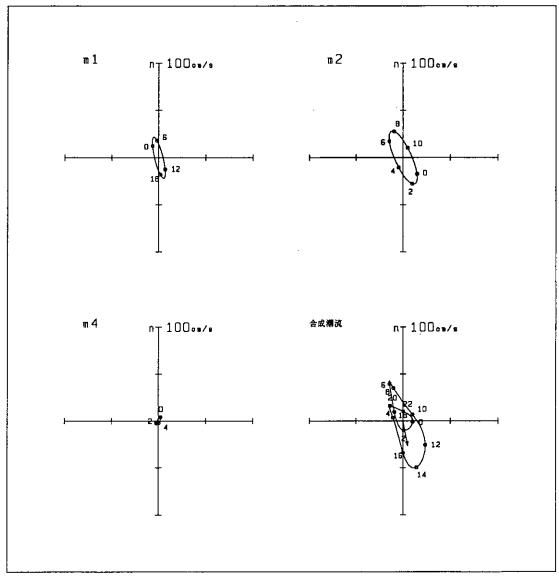


湖点P198,海面下 0.00a. 解析期間 2000.8.8.~2000.8.9.

/suto/ond4/exhd4/mori/ohins/data/Nesp/N.p19.lv.br

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

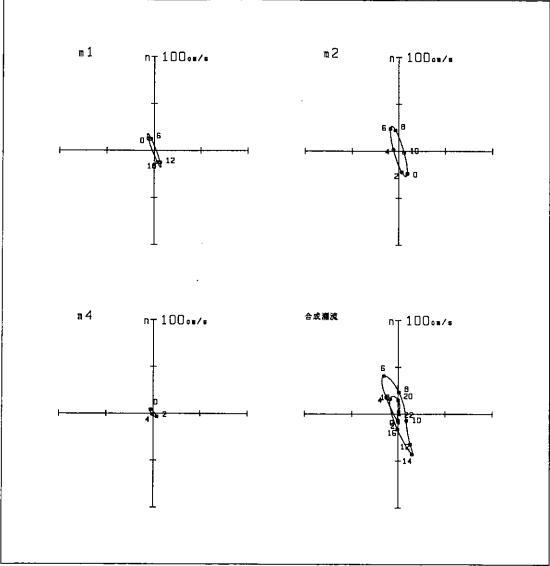
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潮点P20U,海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.

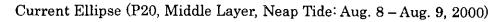
/suto/ond4/exhd4/mori/chins/date/Neap/N.p20.up.br

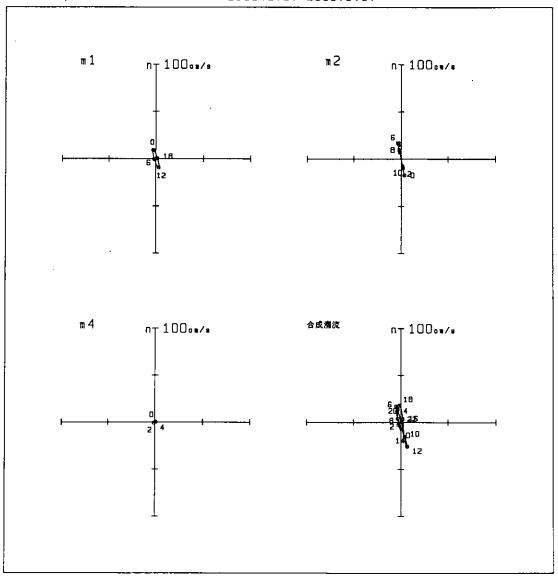
Current Ellipse (P20, Upper Layer, Neap Tide: Aug. 8 – Aug. 9, 2000)



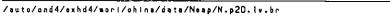
湖点P20M,海面下 0.00m. 解析期間 2000.8.8.~2000.8.9.

/auto/ond4/exhd4/mori/ohina/data/Neap/N.p2D.md.br





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



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

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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

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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. Selfrecorded 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.

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Statistic Data Results on the Dry Season Survey 9. Table

numbers 60243 Data 8935 8935 8935 12963 8935 1872 1872 198 350 350 350 350 5102 198 198 350 350 Water depth (lead weight) Water depth (sounding) Hydrometeorological Water color (China) Water color (Japan) Water temperature Current direction Air temperature Wind direction Light quantum Current speed Transparency Air pressure Wind speed Water level Weather Turdity Salinity items ĉ 4 1 4 45 46 4 8 49 41 numbers Data 395 134 72 25 651 25 Aquatic biota Phytoplankton Zooplankton Benthos items Chl-a Coli. å 36 33 33 39 - 6 numbers Data 120 ∞ ∞ ∞ 00 00 00 ∞ ∞ ∞ 00 00 ∞ - 00 - 00 - 00 Sediment quality Organic matter Ignition Loss Grain size Eh(ROP) Sulfide items COD Oils_ Λ-Τ T-P Hg Cd As Z Cu ۶ numbers Data 5965 395 395 395 395 395 395 395 395 395 395 395 395 395 124 124 124 124 124 86 124 Water quality NH3-N NO₃-N NO2-N SiO₂-Si COD_{Mn} PO4 - P BOD5 TOC items L-N T-P Oils Hd DO SS Hg РО \mathbf{Pb} C As Zn total ů 16 18 2 33 14 15 17 19 20

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HYDROLOGICAL DATA SHEET ON DRY SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY Intensive point in spring tide

	Point		Sampling time	ing	time				Position	E		Water	Transparency	Water	Japan water		Air	Air	Wind		
°N		Y	M	D	H M	Min	Lat	Latitude		Longitude	tude	depth (m)	. (III)	Color (No)	color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Kemark
1	P02	2000	12	10	07 3	30 22	2 38	, 28	" 113	° 44	, 28 ″	8.4	0.7	18	5.5Y7/5	Clear	19.0	1018.0	4.7	09	
2	P03	2000	12	10	0 60	00 22	2 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 5	54 22	2 933	, 30	" 113	° 37	í 48 ″	9.0	0.4	20	2.5Y6/8	Fog	19.7	1018.2	3,3	350	
4	POS	2000	12	10	08	35 22	2 932	, ₃₈	" 113	- ° 4	, 50 <i>°</i>	7.0	0.4	19	2.5Y6/8	Clear	20.1	1018.5	2.3	40	
5	P06	2000	12	10	060	07 22	2 932	, 28	" 113	° 48	, 00 ~	7.3	0.7	16	5.5Y7/5	Clear	22.3	1018.9	0.5	50	
9	P07	2000	12	10	06 5	53 22	2 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	5 60	55 22	2 28	, 10	~ 113	۹ 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	2 27	, 01	* 113	5 2	, ₅₇ "	14.2	1.0	15	5GY6/4	Clear	21.6	1018.4	6.0	360	
D -	P10	2000	12	60	16 3	56 22	2 30	, 11	~ 113	° 58	, ₅₉ "	3.3	0.8	20	2.5Y6/8	Fog	23.2	1013.7	3.4	270	
01 7	P14	2000	12	10	05	13 22	2 ° 19	, 46	" 113	37	, 58 ″	4.0				Clear	20.1	1016.3	1.8	30	
11	P15	2000	12	10	08 0	00 22	2 19	. 47	<i>"</i> 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	2 19	, 48	" 113	° 48	, 00 <i>°</i>	13.6	1	14	5GY6/4	Clear	23.9	1017.3	4.6	350	
13	P17	2000	12	10	60	04 22	2 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	2 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	2 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	2 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	2 ° 00	, 01	<i>*</i> 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	1 ° 56	, 30	<i>"</i> 113	3°38	, 30 <i>°</i>	20.0	2.1	9	5G6/8	Clear	24.1	1015.9	2.7	40	
19	P27	2000 12 10	12	10		15 22	2	57	, 113	37	, 40 <i>°</i>	8.0	1.5	7	5GY6/4	Clear	21.9	1018.2	543	20	

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HYDROLOGICAL DATA SHEET ON DRY SEASON FOR SINO-JAPAN JOINT STUDY ON THE PEARL RIVER ESTUARY Intensive point in neap tide

Total page 1

٩ĕ		Sampling time	me			Ā	Position			Water	Transparency	Water	Japan water	Washar	Air	Air	Wind		-
H Q W			Min		Latitude	tude		Longitude	de	deptn (III)	(m)	color (No)	color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Kemark
2000 12 04 0			07 30	0 22	• 38	, 30 <i>°</i>	113	° 44 ′	10 ″	8.0	1.0	15	5GY6/4	Overcast	15.1	1019.2	T.T	80	
2000 12 04		0	00 60	0 22	• 36	, 42 "	113	° 39 `	29 ″	4.5	0.5	19	5.5Y7/5	Fog	16.3	1020.5	6.4	15	
2000 12 04	2		14 10	0 22	• 33	, 29 ″	113	° 37 ′	48 ″	9.5	0.8	20	2.5Y6/8	Fog	18.8	1017.1	3.5	15	
2000 12 04	2	Ö	08 45	5 22	。32	, 31 ″	113	。45 、	" 00	6.4	1.0	14	5GY6/4	Overcast	15.5	1020.6	6.7	70	
2000 12 04	-21		09 26	6 22	。32	, 30 "	113	° 48 ´	" 00	6.4	1.0	14	5GY6.5/1.5	Overcast	15.7	1020.8	3.0	70	
2000 12 04	2		12 50	0 22	° 28	, 08 <i>°</i>	113	° 38 ′	42"	6.5	0.8	20	2.5Y6/8	Fog	17.9	1018.2	6.0	350	
2000 12 04	- či		10 30	0 22	° 28	, 08 ,	113	° 44 `	10 ″	6.1	1.0	14	5GY6.5/1.5	Overcast	15.5	1020.8	4.4	60	
2000 12 0	ା	04 1	11 40	0 22	° 27	, 01 ″	113	° 52	58"	15.5	1.2	14	5G5/4	Overcast	16.9	1020.7	4.3	360	
2000 12 0	<u> </u>	04	18 40	0 22		, 11 ″	113	° 58 `	59 ″	3.5				Clear	19.2	1016.9	1.9	360	
2000 12		04	15 40	0 22	<u>• 19</u>	, 46 "	113	38	59 ″	4.8	0.7	20	5.5Y7/5	Overcast	17.8	1016.5	5.2	50	
2000 12		04	08 00	0 22	ہ او	, 43 ″	113	° 43 ´	, 00	6.0	0.7	16	10Y6.5/10	Overcast	16.4	1020.0	4.8	20	
2000 12		04	13 20	0 22	° 19	. 47 "	113	° 47 ′	58"	14.2	1.1	14	5GY6/4	Overcast	17.2	1018.0	4.4	50	
2000 12		8	09 15	5 22	<u>15</u>	, 29 "	113	40 、	59 ″	5.3	0.5	20	5.5Y6/8	Overcast	17.0	1021.5	6.5	20	
2000 12		04 14	10	0 22	<u>• 15</u>	, 30 <i>°</i>	113	° 47 ′	30 ″	13.8	1.8	14	5GY6.5/1.5	Overcast	17.8	1017.5	5.1	360	
2000 12		5 7	10 10	0 22	° 08	· 59 "	113	° 40 ´	42"	7.5	0.4	21	5.5Y6/8	Overcast	17.2	1020.9	8.0	30	
2000 12		04 1	14 40	0 22	。 04	, 57 "	113	° 42 ´	47"	11.0	1.5	4	5B3/8	Overcast	18.8	1017.0	6.8	18	
2000 12		4	12 18	8 22	8	, 00 ,	113	30 (, 00	5.0	0.3	21	5.5Y6/8	Overcast	19.6	1019.1	4.4	360	
2000 12		2	13 30	0 21	° 56 (, ₃₀ "	113	38	30 ″	20.0	2.0	4	5BG3.5/7	Overcast	18.4	1017.9	8.4	20	
2000 12		1	11 05	5 21	04	, 57 "	113	37 '	40 ″	7.0	0.3	16	9YR6.5/5	Overcast	19.0	1019.0	y Y	10	

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Total page 7

Point Sampling time rotation Point Non Point Jana water Jana water Jana water Meather P01 2000 12 13 00 25.5 CO 25.6 CO		ſ			.	,	╞		ľ				WILLARD.		Water			A to		Mind	Wind [
		;	Point	Samp	g	Ĩ				OSITIOE	_		Waler	Transparency	Waler	Japan water			Air pressure,	port	dimotion	Domouly
		2	ů	M	D		Min	Lat	litude		Longit	nde	(m)	(m)	COIOF (No)	color		(°C)	(hPs)	specu (m/s)	(°)	
2 2000 12 13 21 00 13 21 00 13 21 00 13 21 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 23 00 13 14 03 03 23		-		2000 12	13	20		2 943	47		° 40 ′	03	25.0				Overcast	12.1	1019.7	4.7	30	
3 2000 13 223 00 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 230 13 </td <td></td> <td>2</td> <td></td> <td>2000 12</td> <td>13</td> <td></td> <td>00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25.8</td> <td></td> <td></td> <td></td> <td>Overcast</td> <td>11.7</td> <td>1020.0</td> <td>5.4</td> <td>60</td> <td></td>		2		2000 12	13		00						25.8				Overcast	11.7	1020.0	5.4	60	
4 200 13 30 13 00 13 00 13 00 10 10 00 10 10 00 10		3					00						25.6				Overcast	11.7	1020.3	5.6	60	
5 2000 12 14 00 0 1 25.9 1 1 7 2000 12 14 01 00 1		4		2000 12	13	23	8						25.6				Overcast	11.5	1020.4	5.7	50	
6 2000 12 14 00 0 259 000 12 14 00 10 10 259 000 12 14 00 10 10 259 000 12 14 00 10 10 250 10 10 200 12 14 10 00 10 10 10 250 10 10 250 10		S		2000 12	14	8	00						25.8				Overcast	11.1	1020.3	5.5	60	
		0				5	8						25.9				Overcast	10.9	1020.3	5.8	50	
8 2000 12 14 00 0 1 24.9 7 7 9 2000 12 14 06 00 1 14 00 1 14 00 1 14 00 1 14 00 1 14 00 1 14 00 1 14 00 1 14 00 14 10 00 1 14 00 1 14 00 1 14 00 14 10 00 1 14 00 12 14 10 00 14 10 00 1 14 10 00 1 14 10 00 1 14 10 00 1 14 10 14 10 10 1 10 10 1 14 10 1 1 1 1 1 1 1 1 1 1 1 1 1		~		2000 12	14		00						25.9				Overcast	10.7	1020.3	6.2	60	
9 2000 12 14 00 0 0 25.0 12 14 05 00 12 14 05 00 12 14 05 00 12 14 05 00 12 14 05 00 12 14 05 00 12 14 05 00 12 14 05 01 23.6 0.3 200 25.76.8 2 13 2000 12 14 00 0 1 24.3 0.3 20 25.76.8 2		~		12	14		8						24.9				Overcast	10.4	1020.2	6.4	50	
10 2000 12 14 06 00 1 10 2000 12 14 05 00 1 10 2000 12 14 05 00 1 10 2000 12 14 05 00 1 2000 12 14 05 00 1 2000 12 14 00 0 10 23.8 0.3 200 25.76.8 25		6		2000 12			8	<u> </u>					25.0				Clear	6.6	1019.8	6.4	50	
11 2000 12 14 06 00 1 10 201 11 00 12 14 00 12 14 00 12 14 00 12 14 00 12 14 00 12 14 00 12 14 00 00 12 14 00 12 14 10 00 12 14 10 00 12 12 00 12 14 10 00 12 14 10 00 12 23.8 0.3 20 2576/8 2576/8 14 2000 12 14 10 00 12 24.6 0.3 20 2576/8		10		2000 12	14	05	8						21.0				Fog	10.5	1020.0	6.0	50	-
12 2000 12 14 07 00 12 14 07 00 12 14 00 12 14 00 12 14 00 12 14 00 12 14 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 00 12 14 10 10 10 10 12 14 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12 12 1		Ξ					00						21.7				Fog	10.5	1020.0	5.6	50	
13 2000 12 14 03 00 2 2 5 5 14 2000 12 14 09 00 2 2 5	D	12		2000 12	14	07	00						23.6	0.2	20	2.5Y6/8	Fog	10.9	1020.0	6.0	50	
14 2000 12 14 09 00 1 00 2 5 5 15 2000 12 14 10 00 2 14 0 20 25 46 25 <td>-</td> <td>13</td> <td></td> <td>2000 12</td> <td>14</td> <td></td> <td>00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>24.3</td> <td>0.3</td> <td>20</td> <td>2.5Y6/8</td> <td>Fog</td> <td>11.9</td> <td>1020.0</td> <td>6.2</td> <td>50</td> <td></td>	-	13		2000 12	14		00						24.3	0.3	20	2.5Y6/8	Fog	11.9	1020.0	6.2	50	
2000 12 14 10 00 12 14 10 00 25Y6/8	9	14					00						23.8	0.3	20	2.5Y6/8	Fog	11.9	1020.0	5.0	50	
2000 12 14 10 0 $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$	_	15		2000 12	14	10	00						23.4	0.3	20	2.5Y6/8	Fog	12.7	1022.1	6.2	50	
2000 12 14 12 00 12 14 13 00 12 14 13 00 12 14 13 00 12 14 13 00 12 14 13 00 12 14 13 00 12 14 14 00 14 10 2.576/8 25/1 0.55 19 2.576/8 2 2000 12 14 16 00 12 14 00 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 19 2.576/8 10		16		2000 12	14	11	00						24.6	0.3	20	2.5Y6/8	Fog	13.3	1022.6	6.5	40	
2000 12 14 00 12 14 00 25 19 $2.5Y6/8$ 2000 12 14 00 12 14 00 12 14 00 $2.5Y6/8$ 2000 12 14 16 00 12 14 10 $2.5Y6/8$ 2000 12 14 16 00 12 16 $2.5Y6/8$ 2000 12 14 16 00 12 16 00 252 0.5 19 $2.5Y6/8$ 2000 12 14 16 00 $2.4.9$ 0.5 19 $2.5Y6/8$ 2000 12 14 10 0 $2.4.9$ 0.5 19 $2.5Y6/8$ 2000 12 14 16 00 16 2.5 16 $2.5Y6/8$ 2000 12 14 16 00 <t< td=""><td></td><td>17</td><td></td><td>2000 12</td><td></td><td>12</td><td>00</td><td></td><td></td><td></td><td></td><td></td><td>24.6</td><td>0.4</td><td>19</td><td>2.5Y6/8</td><td>Fog</td><td>13.9</td><td>1020.6</td><td>7.2</td><td>20</td><td></td></t<>		17		2000 12		12	00						24.6	0.4	19	2.5Y6/8	Fog	13.9	1020.6	7.2	20	
2000 12 14 00 25.1 0.5 19 2.5Y6/8 2000 12 14 15 00 2 19 2.5Y6/8 2000 12 14 15 00 25.2 0.5 19 2.5Y6/8 2000 12 14 16 00 24.9 0.5 19 2.5Y6/8 2000 12 14 17 00 24.9 0.9 16 2.5Y6/8 2000 12 14 17 00 24.1 0.9 16 5.5Y7/5 2000 12 14 19 00 24.1 24.1 16 5.5Y7/5 2000 12 14 19 00 24.3 0.9 16 5.5Y7/5 2000 12 14 20 01 24.3 0.9 16 5.5Y7/5 2000 12 14 20 00 24.3 0.9 16 17 2000 12 14 20 00 24.9 0.9 16		18		2000 12	14		8						24.7	0.5	19	2.5Y6/8	Fog	14.3	1020.2	7.3	50	
2000 12 14 15 00 12 14 15 00 25.1 0.5 19 2.5Y6/8 2000 12 14 16 00 2 19 2.5Y6/8 25.2 0.5 19 2.5Y6/8 2000 12 14 17 00 2 24.9 0.9 16 5.5Y7/5 2000 12 14 18 00 2 24.9 0.9 16 5.5Y7/5 2000 12 14 19 00 2 24.3 0.9 16 5.5Y7/5 2000 12 14 19 00 2 24.3 0.9 16 7.43 2000 12 14 20 0 24.3 16 16 16 16 2000 12 14 20 2 24.9 16 16 16 16		19					00						25.1	0.5	19	2.5Y6/8	Fog	14.2	1020.0	6.7	30	
2000 12 14 16 00 25.2 0.5 19 2.5Y6/8 2000 12 14 17 00 24.9 0.9 16 5.5Y7/5 2000 12 14 18 00 24.1 24.1 24.1 2000 12 14 19 00 24.1 24.3 75 2000 12 14 19 00 12 14 20 10 24.3 2000 12 14 20 00 24.3 74.3 75	-	20		2000 12			00						25.1	0.5	19	2.5Y6/8	Fog	14.1	1019.6	6.2	30	
2000 12 14 17 00 12 14 17 00 24.9 0.9 16 5.5Y7/5 2000 12 14 18 00 24.1 24.1 16 5.5Y7/5 2000 12 14 19 00 24.3 24.3 16 5.5Y7/5 2000 12 14 20 00 12 14 20 24.3 16 16 16 17		21		2000 12	14	16	00						25.2	0.5	19	2.5Y6/8	Fog	14.7	1019.6	5.2	60	
2000 12 14 18 00 24.1 2000 12 14 19 00 24.3 2000 12 14 20 24.9		22					00						24.9	0.9	16	5.5Y7/5	Fog	14.9	1019.6	4.2	60	
2000 12 14 19 00 24.3 2000 12 14 20 24.9 24.9		23		2000 12			00						24.1				Fog	14.3	1019.6	4.0	60	
2000 12 14 20 00 12 14 20 00 24.9		24		2000 12	14		00						24.3				Fog	13.7	1019.6	5.0	60	
		25		2000 12	14		8						24.9				Fog	14.0	1019.7	3.3	10	

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	Point	Sampling time	Jing	ț tim	e			Position	ũ		Water	r Transnarencv	Water	Tanan water		Air	Air nressure	Wind	Wind	
° Ž	2 2	Y M	<u> </u>	H	Min	1	Latitude		Lon	Longitude	(B)		color (No)	color	Weather	temperature (°C)	(hPs)	speed (m/s)	direction (°)	Remark
26	2	2000 12	14	21	00						25.4				Fog	14.2	1021.1	3.7	360	
27	P11 20	2000 12	13	20	00	22 02	24, 29	, " 113	3 ° 45	5 ' 00	" 7.5				Overcast	13.0	1020.1	9.7	10	
28	2	2000 12	2 13	21	00						8.2				Overcast	13.6	1020.2	8.9	30	
29	2	2000 12	13	1 22	00						8.0				Overcast	13.6	1020.3	10.1	30	
30	6	2000 12	2, 13	23	00						8.3				Overcast	13.2	1019.7	8.8	10	
31	2	2000 12	2 14	00	00						7.5				Overcast	13.2	1021.1	5.8	30	
32	2	2000 12	2 14	01	00						7.8				Overcast	13.2	1021.1	7.8	360	
33	2	2000 12	14	02	00						8.4				Overcast	13.0	1021.2	7.4	40	
34	2	2000 12	2 14	03	00						8.3				Overcast	12.8	1020.7	5.2	350	
35	2	2000 12	2 14	1 04	00						6.0				Overcast	12.7	1020.7	7.5	10	
36	2	2000 12	2 14	1 05	00				$\left - \right $		6.2				Overcast	12.6	1020.7	8.7	10	
37	2	2000 12	2 14	1 06	00						7.2				Overcast	12.7	1021.3	7.9	10	
38	2	2000 12	2 14	1 07	00						6.8				Overcast	12.6	1021.2	8.9	350	
39	2	2000 12	2 14	1 08	00						6.8	0.1	21	2.5Y6/8	Clear	13.2	1021.8	8.6	10	
40	2	2000 12	2 14	60 1	00						7.4	0.1	21	2.5Y6/8	Clear	13.9	1023.2	7.5	10	
41	2	2000 12	2 14	10	00						7.4	0.1	21	2.5Y6/8	Clear	14.5	1023.2	9.1	10	
42	2	2000 12	2 14	=	8		_				7.2	0.1	21	2.5Y6/8	Clear	13.9	1022.6	8.6	10	
43	2	2000 12	2 14	112	00						8.0	0.1	21	2.5Y6/8	Clear	14.4	1021.5	8.5	10	
44	2	2000 12	12 14	13	00						8.4	0.1	21	2.5Y6/8	Clear	15.3	1021.1	7.8	10	
45	2	2000 12	2 14	14	00						7.6	0.1	21	2.5Y6/8	Clear	15.8	1020.0	8.5	360	
46	2	2000 12	2 14	15	00						8.0	0.2	21	2.5Y6/8	Clear	18.8	1019.7	7.0	360	
47	2	2000 12	2 14	116	00						7.7	0.3	17	5.5Y7/5	Clear	18.8	1019.9	6.8	360	
48	2	2000 12	2 14	17	00						7.6	0.3	17	5.5Y7/5	Clear	18.0	1019.2	6.8	350	
49	2	2000 12	2 14	1 18	00						7.9				Overcast	16.2	1020.8	3.2	360	
50	~	2000 12	12 14	19	8						7.9				Clear	15.9	1020.6	5 0	01	

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	-	Samuling time	ling	tine 1	┝		Post	Position		Γ	Water		Water			Air		Wind	Wind	
No	Point No	X W		E	Min	Latitude			Longitude	ude		Transparency (m)	color (No)	Japan water color	Weather	ture	Air pressure (hPs)	speed (m/s)	direction (°)	Remark
51		2000 12	14	20	00						8.3		,		Clear	15.8	1021.7	5.1	20	
52	1	2000 12	14	21	00						8.0				Clear	14.6	1021.1	5.0	30	
53	P12 2	2000 12	12	15	00 22	° 24′	26 ″	113 °	52 ′	35 ″	11.5	0.9	18	5.5Y7/5	Raining	15.6	1018.8	3.7	60	
54	2	2000 12	12	16	00						10.8	0.3	19	2.5Y6/8	Raining	15.5	1018.8	3.5	60	
55	2	2000 12	12	17	00						11.4	0.3	19	2.5Y6/8	Raining	15.1	1019.5	4.2	60	
56	(1	2000 12	12	18	00						12.4				Raining	14.9	1019.6	6.3	50	
57	1	2000 12	12	19	00						14.6				Raining	14.7	1019.9	7.2	50	
58	7	2000 12	12	20	00						15.2				Raining	14.4	1020.1	7.2	60	
59		2000 12	12	21	00						14.5				Raining	14.5	1020.1	7.0	90	
60	7	2000 12	12	22	00						14.6				Raining	14.5	1019.6	5.6	60	
I 61		2000 12	12	23	00						14.6				Rainíng	14.3	1019.6	5.8	40	
- (17	2000 12	13	8	8						14.8				Raining	13.9	1019.6	7.0	40	
69 11	(1	2000 12	13	10	00						14.8				Raining	12.9	1019.6	7.0	40	
64	(1	2000 12	13	02	8	_					14.2				Raining	11.9	1019.7	8.0	40	
65	64	2000 12	13	03	8						13.5				Raining	11.9	1019.7	7.8	40	
99	(1	2000 12	13	64	00	_					12.8				Raining	10.9	1019.0	3.4	50	
67	17	2000 12	13	05	00						12.5				Raining	10.6	1019.6	5.7	50	
68		2000 12	13	8	8						11.2				Raining	10.5	1019.9	6.0	40	
69	7	2000 12	13	67	8						11.8				Raining	10.4	1020.7	6.7	50	
70		2000 12	13	80	00						11.0	0.3	19	2.5Y6/8	Raining	10.4	1020.9	6.3	50	
71		2000 12	13	60	8						11.7	0.3	19	2.5Y6/8	Raining	10.5	1020.9	7.7	30	
72		2000 12	13	2	8						11.9	0.3	19	2.5Y6/8	Raining	10.3	1020.9	9.4	30	
73		2000 12	13	7	8						14.1	0.5	19	5.5Y6/8	Raining	10.3	1020.9	8.4	30	
74		2000 12	13	12	8						13.3	0.6	16	5.5Y6/8	Raining	10.1	1019.9	8.6	30	
75	tN	2000 12	13	13	8						12.5	0.8	16	5.5Y6/8	Raining	10.7	1019.9	8.0	30	

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F		Samuling time	ine 1	ime	L		PC	Position			Water	E	Water	Torton motor		Air	Air necente	Wind	Wind	
°²	Point No	X M			Min	Lati	Latitude		Longitude	tude	(m) (m)	1 ransparency (m)	color (No)	Japan water color	Weather	temperature (°C)	(hPs)	speed (m/s)	direction (°)	Remark
18	20	2000 12	13	4	8						13.9	0.8	16	5.5Y6/8	Raining	10.1	1017.8	6.6	30	
11	5	12	_	<u> </u>	8	<u> </u>	ļ	<u> </u>			13.2	0.9	16	5.5Y6/8	Raining	11.1	1017.8	7.3	60	
78	3(12	13	12	8						13.1	1	15	5GY6/4	Raining	10.9	1016.8	6.0	50	1
62	P19 20	2000 12	12	15	00 22	Ξ	, 58 *	113	° 42	, 00	7.0	0.3	18	5.5Y7/5	Raining	16.9	1019.3	5.6	10	
8	5	2000 12	12	16 (00						7.0	0.3	18	5.5Y6/8	Raining	16.8	1019.3	4.8	20	
81	5(2000 12	12	17	00						7.4	0.3	18	5.5Y6/8	Raining	16.8	1019.4	8.3	20	
82	5(2000 12	12	81	8						7.1				Raining	16.6	1020.0	7.9	360	
8	2(12	12	10	8						8.0				Raining	16.2	1020.1	9.6	20	
8	2(12	_	20	8			 	<u> </u>	 	8.3				Raining	16.2	1020.7	9.2	40	
85	3(12		-	8	-		╞			8.4				Raining	16.2	1020.5	8.7	30	
86	<u>7</u>	12	12	+	8	-					8.5				Raining	15.6	1021.2	7.2	10	
87	3	2000 12	12	53	8			-			8.8				Raining	15.4	1020.9	8.4	10	
88	<u>7</u>	2000 12	13	8	8	-					8.4				Raining	15.2	1020.2	8.3	10	
68	<u>7</u>	2000 12	13	5	8			 			7.8				Raining	14.6	1020.2	5.0	30	
8	<u>7</u>	2000 12	13	8	8						7.2				Raining	13.9	1020.1	4.6	10	
16	5	12			8	-	-				6.5				Raining	13.8	1019.8	6.7	10	l
2	3	2000 12			8			-			6.5				Raining	13.3	1019.2	7.4	360	
56	<u> 7</u>	2000 12	13	ß	8						6.5				Raining	13.0	1020.6	10.1	350	ł
4	5	2000 12	13	8	8			-			5.8				Raining	12.8	1018.6	7.8	360	
95	0	2000 12	13	- 6	8		 		<u> </u>		6.3	0.1	21	2.5Y6/8	Raining	13.0	1021.1	10.6	360	
96	0	2000 12	13	8	8						6.4	0.1	21	2.5Y6/8	Raining	13.0	1021.1	9.2	20	
52	0	2000 12	13	ଞ	8						6.5	0.1	21	2.5Y6/8	Raining	12.4	1021.6	0.6	360	
86	<u> </u>	2000 12	13	9	8	┣─					6.7	0.1	21	2.5Y6/8	Raining	12.7	1020.8	11.4	360	
66	1	2000 12	13	Ξ	8						7.2	0.1	21	2.5Y6/8	Raining	12.9	1020.9	9.0	350	
8		2000 12	33	12	8						7.3	0.1	21	2.5Y6/8	Raining	12.6	1020.5	8.7	350	

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		tuiod	Sampling time	ng tir	ne			Position	<u>=</u>		Water	Transnaron	Water	Ianan water		Air	Air pressure	Wind	Wind	
01 200 12 0 7 7 01 27 010 27 010 27 0102 64 64 102 2000 12 13 60 7 2 01 2 27 000 12 10 0 002 64 90 103 2000 12 13 60 2 2 04 13 53 0103 13 44 45 104 2000 13 11 0 2 13 45 13 45 12 10 12 10 12 <t< th=""><th>° N</th><th>No</th><th>Σ</th><th></th><th></th><th></th><th>atitude</th><th>┝─</th><th>Long</th><th>itude</th><th>(ii) depth</th><th>(m)</th><th></th><th>Color color</th><th>Weather</th><th>temperature (°C)</th><th>(hPs)</th><th>speed (m/s)</th><th>direction (°)</th><th>Remark</th></t<>	° N	No	Σ				atitude	┝─	Long	itude	(ii) depth	(m)		Color color	Weather	temperature (°C)	(hPs)	speed (m/s)	direction (°)	Remark
100 100 10	101		12								7.3	0.1	21	2.5Y6/8	Raining	12.9	1019.2	6.4	350	
	102		12								7.2	0.1	21	2.5Y6/8	Raining	12.9	1017.6	9.0	350	
100 2000 12 10 00 12 100 00 22 112 37° 112° 101°	103		12								6.9	0.2	21	2.5Y6/8	Raining	13.0	1018.5	4.5	360	
	104		12								6.9	0.2	21	2.5Y6/8	Raining	12.9	1018.4	44	350	
100 10 10 00 1 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 000 10 10 000 10 10 000 10 10 000 10 10 000 10 10 000 10 10 100	105	P20	12			22 ° 1	•		48	, 01		1.4	13	5GY6/4	Overcast	21.0	1021.9	7.2	30	
100 2000 12 11 00 10 10 200 11 10 00 10 10 200 11 10 00 10 10 200 11 10 00 10 10 200 11 10 00 10 10 200 11 10 200 11 10 200 11 10 200 11 10 100 </td <td>106</td> <td></td> <td>12</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20.2</td> <td>1.2</td> <td>13</td> <td>5GY6/4</td> <td>Fog</td> <td>20.9</td> <td>1021.6</td> <td>7.2</td> <td>30</td> <td></td>	106		12		-						20.2	1.2	13	5GY6/4	Fog	20.9	1021.6	7.2	30	
108 2000 12 10 0 20 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 00 10 10 100 6.0 10 10 6.0 10 10 6.0 10 10 6.0 10 10 6.0 10	107		12								20.1	1.3	13	•5GY6/4	Fog	21.3	1020.8	5.3	60	
10 2000 12 11 60 20 12 10 018 6.7 11 2000 12 10 00 11 16 00 10 000 10 000 10 000 01 00 018.3 6.7 70 11 2000 12 10 00 1 10 00 10.3 10.3 018.3 018.3 018.3 018.3 018.3 018.3 018.3 018	108		12	_							20.7	1.5	13	5GY6/4	Fog	21.2	1019.3	6.0	80	-
110 2000 12 10 60 1 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 </td <td>109</td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20.5</td> <td>1.2</td> <td>13</td> <td>5GY6/4</td> <td>Fog</td> <td>21.0</td> <td>1018.8</td> <td>6.7</td> <td>80</td> <td></td>	109		12								20.5	1.2	13	5GY6/4	Fog	21.0	1018.8	6.7	80	
1112000121000101000	110	_	12								19.8	1.5	13	5GY6.5/1.5	Fog	20.9	1018.3	7.0	60	
11220001211000002010103103103103103113200012111800000020.70103.3112112114200012119000000000103.31131131152000121120000000000011620001211200000000000116200012122000000000001182000121220000000000011820001212200000000000118200012122000000000000118200012122000000000000011820001212200000000000001201212000000000 <td></td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19.8</td> <td>1.3</td> <td>14</td> <td>5GY6/4</td> <td>Fog</td> <td>21.3</td> <td>1018.3</td> <td>9.4</td> <td>06</td> <td></td>			12								19.8	1.3	14	5GY6/4	Fog	21.3	1018.3	9.4	06	
113 2000 12 11 8 00 11 18 00 11 10 00 111 000 111 10 113			12								20	1.2	14	5GY6/4	Fog	20.5	1018.3	10.5	90	
114 2000 1211 00 0 0 11.2 00 11 10 00.2 1010.3 11.0 115 2000 12 11 20 0 1 12 10 0 11 20 11.2 109.3 11.2 11.2 117 2000 12 11 21 00 12 11 21 00 12 12 100 12 109.3 8.0 117 2000 12 11 22 00 12 12 00 12 12 100 12 100.3 8.0 118 2000 12 12 00 12 12 00 12 12 100 12 1200 12 100 12 100.9 7.4 120 2000 12 12 00 12 12 00 12 12 100 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 12 1200 120 1200			12								20.7				Fog	20.1	1018.3	11.2	90	
2000 12 11 20 0 0 0 21.6 21.6 0 19.7 1019.3 11.2 2000 12 11 21 00 21.6 21.6 0 0 19.7 1019.3 8.0 8.0 2000 12 11 22 00 0 0 0 0 0 0 0 0 19.4 1020.3 8.0 2000 12 12 00 0 0 0 0 0 0 0 0 0 2000 12 12 00 0 0 0 0 0 0 0 0 0 2000 12 12 00 0 0 0 0 0 0 0 0 0 2000 12 12 00 0 0 0 0 0 0 0 0 0 2000 12 12 00 0 0 0 0 0 0 0 0 0 2000 12 12 00 0			12								21.2				Raining	20.2	1019.3	11.0	90	
2000 12 11 21 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 00 12 12 01 00 12 12 01 00 12 12 01 00 12 12 02 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1019.6 7.3 1	115		12								21.8				Raining	19.7	1019.3	11.2	90	
2000 12 10 2 20.4 20.4 20.4 20.4 20.0 10 10 1020.1 8.4 8.0 8.0 8.0 8.0 8.0 8.0 1	116		12								21.6				Raining	19.9	1019.3	8.0	90	
2000 12 10 2 00 1 2 00 12 10 0 200.0 11 2 00 12 12 00 00 12 12 00 00 13 10199 7.4 10199 7.4 1 2000 12 12 01 00 12 12 02 00 12 12 02 00 13 12 02 1019.4 7.3 17.3	117		12								21.4				Raining	19.7	1020.1	8.4	90	
2000 12 10 00 0 10 10 10 74 74 2000 12 12 01 00 12 12 01 00 12 12 10 00 7.3 7.3 2000 12 12 02 00 12 12 03 00 12 12 10 1019.6 7.3 2000 12 12 02 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 04 06 7.3 7.2 2000 12 12 04 00 12 12 04 06 7.3 7.2 2000 12 12 04 00 12 12 04 06 109.4 6.7 7.2 2000 12 12 04 00 12 12 04 10	118		12					-			20.4				Raining	19.4	1020.3	8.0	06	
2000 12 12 01 00 12 12 02 02 12 12 02 02 12 12 12 101 00 12 12 12 12 12 12 101 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 13 13 04 05 <th< td=""><td>119</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>19.8</td><td></td><td></td><td></td><td>Raining</td><td>19.2</td><td>1019.9</td><td>7.4</td><td>90</td><td></td></th<>	119		12								19.8				Raining	19.2	1019.9	7.4	90	
2000 12 12 02 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 03 00 12 12 04 00 5.2 1019.4 6.7 2000 12 12 04 00 12 12 05 0 1019.5 6.0 1019.5 6.0 1019.5 6.0 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2 1019.5 5.2	120		12								21.6				Raining	18.7	1019.6	7.3	90	
2000 12 12 03 00 12 12 04 00 12 12 04 00 12 12 04 00 12 12 04 00 12 12 04 00 12 12 04 00 12 12 03 00 12 12 04 00 10 200 12 12 04 00 12 12 04 00 1019.5 6.0 1019.5 6.0 1019.5 5.2 2000 12 12 02 00 12 12 06 00 1019.5 5.0 5.2	121		12								20.7				Raining	18.1	1019.4	7.2	06	
2000 12 12 04 00 12 12 05 00 12 12 05 00 12 12 05 00 12 12 05 00 12 12 05 00 12 12 05 00 10 10 90 1019.5 6.0 2000 12 12 05 00 12 12 05 00 1019.5 5.2	122		12	-							19.8				Raining	18.5	1019.4	6.7	90	
2000 12 12 05 00 10 20 20 2000 12 12 06 00 19.9 19.9	123		12							_	20.3				Raining	16.9	1018.9	6.2	90	
2000 12 12 06 00 1 19.9 Raining 16.7 1019.5 5.2	124		12								20				Raining	16.9	1019.5	6.0	90	
	125		12								19.9				Raining	16.7	1019.5	5.2	90	

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			Sampling time	ling	time			Position			Water		Water			Air		Wind	Wind	
ů	No No	<u> </u>	Σ) a	H	Min	Latitude		Longitude	ıde	depth (m)	I ransparency (m)		Japan water color	Weather	temperature (°C)	Air pressure (hPs)	speed (m/s)	direction (°)	Remark
126		2000	0 12	12	07	00					20.0	0.3	20	5.5Y6/8	Raining	16.4	1019.5	9.6	06	
127		2000	0 12	12	8	00					19.9	0.5	19	5.5Y7/5	Raining	16.4	1020.5	8.0	80	
128		2000	0 12	12	60	00					20.8	0.5	19	5.5Y7/5	Raining	16.3	1021.1	7.7	80	
129		2000	0 12	12	2	8					19.8	0.6	19	5.5Y7/5	Raining	16.4	1021.2	8.2	90	
130		2000	0 12	12	Ξ	00					20.8	0.6	19	5.5Y7/5	Raining	16.6	1021.2	7.2	09	
131	P22	2000	0 12	11	10	00 22 °	05 08	″ 113 °	47 *	01 ″	13.5	1.0	6	5G6/8	Overcast	21.4	1022.2	9.7	70	
132		2000	0 12	Ξ	11	00					13.5	1.2	6	10GY4.5/7	Overcast	22.0	1021.7	4.1	70	
133		2000	0 12	1	12	00					13.1	1.3	6	10GY4.5/7	Overcast	22.4	1012.0	7.7	90	
134		2000	0 12	Ξ	13 (00					13.5	1.4	9	10GY4.5/7	Overcast	22.6	1020.7	6.2	8.0	
135		2000	0 12	Ξ	14	00					13.3	1.2	6	10GY4.5/7	Overcast	23.5	1018.3	4.6	90	
1 <u>3</u>		2000	0 12	Ξ	15	8					13.3	1.5	6	10GY4.5/7	Overcast	22.2	1018.7	8.5	90	
137		2000	0 12	Ξ	16	8					13.5	1.6	9	10GY4.5/7	Overcast	21.6	1018.2	8.7	60	
88 14		2000	0 12	11	17 (00					13.8	1.0	∞	5GY5/8	Overcast	21.1	1018.8	9.6	100	:
139		2000	0 12	11	18	8					14.2				Overcast	20.7	1018.7	10.1	80	
140		2000	0 12	1	19	8					14.2				Overcast	20.2	1019.7	8.7	80	
141		2000	0 12	11	20	00					14.5				Overcast	19.9	1020.0	10.6	80	
142		2000	0 12	11	21 (8		_			14.6				Raining	19.7	1020.8	8.2	50	
143		2000	0 12	Ξ	22	8		_			15.0				Raining	19.2	1021.1	10.2	60	
144		2000	0 12	11	23 (8					15.0				Raining	19.0	1021.2	6.4	80	
145		2000	0 12	12	8	00					14.5				Raining	18.6	1021.2	9.1	60	
146		200	2000 12	12	0	00					14.0				Raining	18.4	1020.7	8.2	60	
147		2000	0 12	12	8	8					13.0				Raining	18.0	1020.7	5.6	70	
148		2000	0 12	12	8	8					12.5				Raining	18.0	1020.2	3.9	60	
149		200	2000 12	12	8	00		_			12.8				Raining	17.6	1020.2	4.6	60	
150		2000	0 12	12	S	00					12.8				Raining	17.6	1020.1	2.3	70	

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Continuous point in spring tide

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	Point		Sampling time	ing t	ime	F	Position	Water	Transparency	Water	Japan water		Air	Air pressure	Wind	Wind	
°N	No	Y M D H Min	Σ		I M	n Latitude	Longitude	depth (m)	(m)	color (No)	color	Weather	temperature (°C)	ure (hPs)	speed (m/s)	direction (°)	Remark
151		2000 12 12 06	12	12 (00 90			12.6				Raining	17.6	1020.2	3.4	70	
152		2000 12 12 07	12	12	00 00			13.0	0.9	16	5GY6/4	Raining	17.4	1020.2	6.2	70	
153		2000 12 12 08 00	12	12	38 0			13.8	0.0	16	5GY6/4	Raining	17.9	1020.9	5.4	70	
154		2000 12 12 09 00	12	12	ð			14.0	0.8	16	5GY6/4	Raining	17.4	1022.2	6.6	50	
155		2000 12 12 10 00	12	12	0			14.2	0.8	16	5GY6/4	Raining	17.2	1021.9	5.5	10	
156		2000 12 12 11 00	12	12	11 0			14.3	0.9	16	5GY6/4	Raining	17.4	1022.0	5.6	20	

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page
Total

	Point	Sampling time	ling	tim	<u>ب</u>		Position	ion		·	Water	Transparency	Water	Japan water	-	Air	Air	Wind	Mind .	
²		Y M	a	Н	Min	Latitude	le Ie	Lo	Longitude	de	depth (m)	(u)	color (No)	color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Kemark
-	P01	2000 12	7	20	00 22	22 943 7 4	47 " 1	113 940 2	40 , (<i>,</i> 00	26.3				Clear	21.2	1017.3	0.7	120	
7		2000 12	7	21	00		-				27.3				Fog	21.3	1017.5	1.4	100	
ς.		2000 12	2	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	
Ś		2000 12	∞	8	8						26.7				Fog	20.2	1018.4	3.7	90	
9		2000 12	∞	10	00				—		26.2				Fog	20.2	1018.4	3.0	110	
t~		2000 12	8	02	00						26.1				Fog	19.8	1018.4	4.1	100	
∞		2000 12	∞	03	00						25.5				Fog	19.3	1018.4	4.0	90	
6		2000 12	8	40	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	
= 		2000 12	80	90	00						26				Fog	18.3	1018.4	2.2	90	
12		2000 12	8	07	00						26.6	0.8	18	5.5Y7/5	Fog	17.9	1018.4	2.4	90	
ះ 16		2000 12	8	08	00						26.8	0.8	16	5.5Y7/5	Fog	17.9	1018.4	2.6	90	
14		2000 12	8	09	00						26.8	1.0	16	5.5Y7/5	Fog	18.8	1019.4	3.4	100	
15		2000 12	8	10	00						26.7	0.8	16	5.5Y7/5	Fog	19.6	1019.3	3.2	90	
16		2000 12	8	11	00						26.7	0.8	16	5.5Y7/5	Fog	21.1	1018.2	3.3	90	
17		2000 12	80	12	00						26.9	0.9	16	5.5Y7/5	Fog	21.4	1018.3	3.0	90	
18		2000 12	8	13	00		_				26.4	0.8	16	5.5Y7/5	Fog	21.9	1016.5	3.3	90	
19		2000 12	8	14	00						25.8	0.8	16	5.5Y7/5	Fog	21.9	1016.2	2.7	100	
20		2000 12	80	15	00						25.8	0.8	16	5.5Y7/5	Fog	21.9	1015.7	1.7	110	
21		2000 12	8	16	00						26.0	1.0	17	5.5Y7/5	Fog	22.1	1014.5	1.2	140	
22		2000 12	8	17	00						26.1	0.9	17	5.5Y7/5	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	×	20	٤						376				Ena		1015 2	4 C	140	

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

Continuous point in neap tide

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anglitude depth Transparency (No) Japan water (No) Weather (No) prosecond (No) gened (No) 445 27.4 (m) (m) (m) (m) (ms) 445 27.4 (m) (n) (No) Neather Persone pressure speed 45 27.4 1016.2 2.0 1016.2 2.0 45 Clear 20.3 1019.2 2.7 80 Clear 20.6 1018.7 4.2 7 8 Clear 19.4 1018.0 3.6 7 5 Clear 19.3 1018.1 1.9 7 5 1018.0 1.0 3.0 7 5 19.4 1018.0 1.0 8 1 1 1 1 1 1 1 7 5			L	in		F			Position	=		ľ	_		Water			Air	Air	Wind	Wind	
$ \begin{array}{ $	ž											Τ	_	Fransparency	color	Japan water			pressure	speed	direction	Remark
22 11 8 10 274 10^{-1} 274 10^{-1} <th< th=""><th></th><th></th><th></th><th></th><th>H</th><th>Min</th><th>La</th><th>titude</th><th></th><th>Lon</th><th>ngitud</th><th></th><th>. (E</th><th>(U)</th><th>(0N)</th><th>color</th><th></th><th></th><th>(hPs)</th><th>(m/s)</th><th>(。)</th><th></th></th<>					H	Min	La	titude		Lon	ngitud		. (E	(U)	(0N)	color			(hPs)	(m/s)	(。)	
	26]										. 1	7.4				Fog	20.9	1015.3	2.5	190	
28 2000 10^{-1} 00 0	27				_	00	2 24	1 29	"	0		"	8.5				Clear	21.0	1016.2	2.0	230	
29 2000 10 10 2 6 8.0 7 10.8	28			-		00							8.5				Clear	20.7	1018.6	1.6	250	
30 2000 10 200 10 <	25											_	8.0				Clear	21.2	1018.1	3.0	280	
31 2000 12 60 0 0 2 0 12 0	30												8.2				Clear	20.8	1019.2	2.7	130	
32 2000 12 08 0<	3										L		8.2				Clear	20.6	1018.7	1.8	80	
33 2000 12 08 03 7	32					_							7.8				Clear	20.2	1018.7	2.1	80	
34 200 12 08 04 6.8 6.8 6.8 6.8 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7	35	[{			_								7.6				Clear	19.8	1018.7	4.2	50	
35 2000 12 08 6.8 6.8 10.8.1 30 30 36 2000 12 08 0 0 1 7.5 10.8.1 10.9.2 1018.1 30 37 2000 12 08 0 0 1 1 9.5 1018.1 19.5 1018.1 19.5 38 2000 12 08 0 1 7 1074.57 1.5 19.5 1019.1 2.7 39 2000 12 08 0 1 8.2 1.6 7 1074.57 1.5 1019.1 2.7 40 200 12 08 0 1 08 10170 1.7 1.7 1074.57 1.5 1.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2	37		2000 11									-	6.8				Clear	19.4	1018.0	3.6	50	
36 2000 12 0 7.5 7.5 15 16 19.2 1018.0 30 30 37 2000 12 08 06 0 1 75 1 </td <td>35</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.8</td> <td></td> <td></td> <td></td> <td>Clear</td> <td>19.3</td> <td>1018.1</td> <td>3.0</td> <td>50.</td> <td></td>	35		_										6.8				Clear	19.3	1018.1	3.0	50.	
37 2000 12 66 00 12 103 1			_		_								7.5				Clear	19.2	1018.0	3.0	60	
38 2000 12 08 07 0 7.8 7.8 7.8 7.10 7.9 1018.9 1.0 1.0 39 2000 12 08 00 0		,											7.5				Clear	19.3	1018.1	1.9	55	
39 2000 12 08 00 1 00 12 08 00 1 019.1 2.7 40 2000 12 08 00 1 08 0 0 10 10 2.7 41 2000 12 08 0 0 0 0 1 0.1 2.7 106Y4.5/7 Clear 21.4 1019.8 2.9 42 2000 12 08 1 0 7 106Y4.5/7 Clear 25.3 1019.3 2.1 43 2000 12 08 1 0 7 10GY4.5/7 Clear 23.8 1017.0 1.7 44 2000 12 08 7 10GY4.5/7 Clear 23.8 1017.0 1.7 45 2000 12 08 7 10GY4.5/7 Clear 23.8 1017.0 1.9 46 2000 12 08 7 5					_						_		7.8				Clear	19.3	1018.9	1.0	60	
2000 12 08 00 0 8.2 1.6 7 10GY4.5/7 Clear 21.4 1019.8 2.9 2000 12 08 10 00 8.3 1.6 7 10GY4.5/7 Clear 25.3 1019.3 2.1 2000 12 08 10 00 7 7.7 1.7 6 10GY4.5/7 Clear 25.8 1018.3 0.0 2000 12 08 13 00 7 7.6 1.8 7 10GY4.5/7 Clear 23.8 1017.0 1.7 2000 12 08 14 00 7 7.6 1.8 7 5GY6/8 Clear 23.6 1016.1 1.9 2000 12 08 14 00 7 5GY6/8 Clear 23.5 1016.3 2.4 2000 12 08 16 0 7 5GY6/8 Clear 23.5 1016.3 2.4 <td></td> <td>_</td> <td>-</td> <td>8.0</td> <td>1.6</td> <td>7</td> <td>10GY4.5/7</td> <td>Clear</td> <td>19.4</td> <td>1019.1</td> <td>2.7</td> <td>55</td> <td></td>											_	-	8.0	1.6	7	10GY4.5/7	Clear	19.4	1019.1	2.7	55	
2000 12 08 10 0 8.3 1.6 7 10GY4.5/7 Clear 25.3 1019.3 2.1 2000 12 08 11 00 7.8 1.3 7.7 1.3 7 10GY4.5/7 Clear 25.8 1018.3 0.0 2000 12 08 13 00 7 7.6 1.8 7 10GY4.5/7 Clear 23.8 1017.0 1.7 2000 12 08 13 00 7 7.6 1.8 7 10GY4.5/7 Clear 23.8 1016.1 1.9 2000 12 08 14 00 7 7.6 1.8 7 5GY6/8 Clear 23.0 1016.1 1.9 2.4 2000 12 08 16 0 7 5GY6/8 Clear 23.0 1016.1 2.4 2000 12 08 16 0 7 5GY6/8 Clear	¥			2 08									8.2	1.6	7	10GY4.5/7	Clear	21.4	1019.8	2.9	80	
2000 12 08 11 00 12 00 12 08 10 7.8 1.7 1.7 6 10CV4.5/7 Clear 25.8 1018.3 0.0 1.7 </td <td>4</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.3</td> <td>1.6</td> <td>7</td> <td>10GY4.5/7</td> <td>Clear</td> <td>25.3</td> <td>1019.3</td> <td>2.1</td> <td>60</td> <td></td>	4		_										8.3	1.6	7	10GY4.5/7	Clear	25.3	1019.3	2.1	60	
2000 12 08 13 00 12 08 13 00 13 14 00 7.5 1.8 7 5GY6/8 Clear 23.5 1016.1 1.9 2000 12 08 15 00 12 08 16 00 7.8 1.8 7 5GY6/8 Clear 23.0 1014.1 2.8 7 2.6 1014.3 3.5 1 1 2.4 2 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	42				_								7.8	1.3	7	10GY4.5/7	Clear	25.8	1018.3	0.0	ပ 	
2000 12 08 13 00 13 00 13 00 13 00 13 00 13 00 13 00 13 00 13 00 13 00 13 1016.1 1.9 1.9 2000 12 08 15 00 1 00 1 7.5 1.7 7 5GY6/8 Clear 23.0 1016.1 2.4 2.4 2000 12 08 16 00 7 7.8 1.7 7 5GY6/8 Clear 23.0 1014.1 2.8 2.4 2000 12 08 17 00 7.8 1.8 7 5GY6/8 Clear 23.0 1014.4 3.5 2.4 2000 12 08 17 00 8.3 1.7 7 5GY6/8 Clear 23.2 1014.5 4.6 7 2000 12 08 18 00 8.7	4			2 05									7.7	1.7	6	10GY4.5/7	Clear	23.8	1017.0	1.7	170	
2000 12 08 14 00 1 7.6 1.8 7 5GY6/8 Clear 23.5 1016.3 2.4 2000 12 08 15 00 1 08 16 00 1014.1 2.8 2000 12 08 16 00 7.8 1.8 7 5GY6/8 Clear 23.0 1014.1 2.8 2000 12 08 17 00 7.8 1.8 7 5GY6/8 Clear 23.2 1014.4 3.5 2000 12 08 17 07 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 19 00 </td <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>7.6</td> <td>1.8</td> <td>7</td> <td>10GY4.5/7</td> <td>Clear</td> <td>24.0</td> <td>1016.1</td> <td>1.9</td> <td>230</td> <td></td>	4								_				7.6	1.8	7	10GY4.5/7	Clear	24.0	1016.1	1.9	230	
2000 12 08 15 00 7.5 1.7 7 5GY6/8 Clear 23.0 1014.1 2.8 2000 12 08 16 00 7.8 1.8 7 5GY6/8 Clear 24.8 1014.4 3.5 2000 12 08 17 00 8.3 1.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 19 00 8.5 7 5GY6/8 Clear 23.2 1014.2 1.7	4		2000 1:								-		7.6	1.8	7	5GY6/8	Clear	23.5	1016.3	2.4	260	
2000 12 08 16 00 1 7.8 1.8 7 5GY6/8 Clear 24.8 1014.4 3.5 2000 12 08 17 00 8.3 1.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 8.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 8.7 7 5GY6/8 21.2 1014.2 1.7 2000 12 08 19 00 8.5 7 5GY6/8 21.2 1014.2 1.7	¥		2000 11	2 05				_					7.5	1.7	7	5GY6/8	Clear	23.0	1014.1	2.8	260	
2000 12 08 17 00 12 08 18 00 8.3 1.7 7 5GY6/8 Clear 23.2 1014.5 4.6 2000 12 08 18 00 8.7 8.7 7 5GY6/8 Clear 23.2 1014.5 1.7 2000 12 08 19 00 8.5 8.5 5.3 1015.8 6.3	4	_									-		7.8	1.8	7	5GY6/8	Clear	24.8	1014.4	3.5	130	
2000 12 08 18 00 8.7 8.7 Clear 22.2 1014.2 1.7 2000 12 08 19 00 1 8.5 0 6.3 6.3	4	~	2000 1:										8.3	1.7	7	5GY6/8	Clear	23.2	1014.5	4.6	120	
2000 12 08 19 00 8 19 00 8.5 8.5 Clear 23.2 1015.8 6.3	¥,			2 05	_								8.7				Clear	22.2	1014.2	1.7	230	
	5(. <u> </u>			8.5				Clear	23.2	1015.8	6.3	120	

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	Deint	Sampling time	ing i	time		Ţ	Position			· ·	Turnenou	Water	Tonon motor		Air	Air	Wind	Wind	
N ₀	No	Y M		H M	Min La	Latitude		Longitude	Jde	_	ı ransparency (m)	color (No)	Japan water color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Remark
51		2000 12	08	20 0	00					9.0				Clear	22.0	1015.8	7.0	120	
52		2000 12	08	21 0	00					9.0				Clear	21.7	1016.1	6.6	110	
53	P12 :	2000 12	06	15 0	00 22 24	, 25	" 113	° 52 ′	38 ″	14.0	1.5	13	5GY6.5/1.5	Fog	21.1	1016.6	3.6	360	
54		2000 12	06	16 0	00					13.5	1.6	13	5GY6.5/1.5	Fog	21.3	1016.3	3.0	330	
55		2000 12	06	17	00					14.2	1.8	13	5GY6.5/1.5	Fog	21.3	1016.3	2.7	330	
56		2000 12	06	18 0	00					14.5				Fog	20.9	1016.9	0.9	340	
57		2000 12	06	19 0	00					14.4				Fog	20.5	1017.5	1.4	230	
58		2000 12	06	20 0	00					14.9				Fog	20.4	1019.4	1.7	230	
59		2000 12	90	21 0	00					15.4				Fog	20.1	1018.8	1.5	230	
60		2000 12	06	22 0	00					14.3				Fog	19.9	1018.3	1.2	240	
61		2000 12	06	23 0	00					13.8				Fog	20.1	1018.3	0.0	С	
62		2000 12	07	00 0	00					13.6				Fog	19.4	1018.3	0.0	C	
63		2000 12	07	01 0	00					12.8				Fog	18.9	1018.4	3.2	60	
64		2000 12	07	02 0	00					12.8				Fog	18.9	1018.4	3.2	60	
65		2000 12	07	03 0	00					12.1				Fog	18.9	1017.4	4.4	60	
66		2000 12	07	04 0	00					11.5				Clear	19.2	1017.5	3.4	50	
67	-	2000 12	07	05 0	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 0	00					11.9	1.8	13	5GY6.5/1.5	Fog	19.7	1018.9	1.3	60	
70		2000 12	07	08 C	00					11.7	1.7	13	5GY6.5/1.5	Fog	19.7	1019.9	2.4	50	
71.		2000 12	07	0 60	00					11.9	1.8	13	5GY6.5/1.5	Fog	20.3	1020.4	4.3	50	
72		2000 12	07	10 O	00					12.5	1.9	14	5GY6/4	Fog	21.9	1020.7	2.6	50	
73		2000 12	07	11 0	00					12.1	1.8	13	5GY6/4	Fog	22.3	1020.2	4.4	60	
74		2000 12	07	12 0	00	_				12.3	1.9	13	5GY6/4	Fog	23.3	1019.1	3.0	60	
75		2000 12 07		13	00					13.8	1.2	14	5GY6/4	Fue	217	1017.2	9 4	300	

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

Continuous point in neap tide

Total page 7

	Local puece 7				ŀ															
;	Point		Ĩ	Sampling time	 يو		Pox	Position		-		Transparency	Water	Japan water		År ,	Air	Wind	Wind	n
ž	_	Y	0	Η	Min	Latitude	ıde	3	Longitude		depth (m)	(m)	color (No)	color	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Kemark
76		2000 12	2 07	7 14	00						14.8	0.8	14	5GY6/4	Fog	22.9	1016.1	3,4	280	
77		2000 12	12 07	7 15	00						14.2	1.1	14	5GY6/4	Fog	23.3	1016.1	2.8	270	
78		2000 13	12 07	7 16	00						14.3	1.0	14	5GY6/4	Fog	22.7	1015.7	2.2	150	
62	P19	2000 13	12 06	6 15	00	22 ° 11 ′	56"	113 °	42,00	0 "	6.0	2.5	5	5G5/4	Clear	25.0	1016.3	1.5	30	
8		2000 12	5	12 06 16	00						6.6	2.5	6	5G5/4	Clear	24.2	1015.8	1.2	110	
81		2000 1:	12 06	6 17	00						6.8	2.5	6	5G5/4	Clear	22.3	1016.3	1.2	130	
82		2000 12 06 18	2 0	5 18	00						7.1				Clear	21.2	1017.0	1.6	140	
83		2000 15	5	12 06 19	00						7.0				Clear	20.6	1017.4	2.4	140	
84		2000 15	12 06	6 20	00					 	7.0				Clear	20.4	1018.0	1.7	120	
85		2000 1:	12 06	6 21	00						7.0				Clear	20.4	1018.7	0.0	U	
86		2000 12	2 0(12 06 22	00						6.6				Clear	20.2	1018.6	0.0	U	
87		2000 13	12 06	06 23	00						6.6				Clear	20.2	1018.5	0.0	с П	
88		2000 13	2 0	12 07 00	00						6.6				Clear	19.2	1018.6	0.0	0	i
89	 	2000 15	12 07	7 01	00						6.6				Clear	19.4	1018.9	1.3	30	
90		2000 13	12 07	07 02	00						6.0				Clear	19.3	1018.5	2.4	10	
16		2000 13	12 07	07 03	80						6.0				Clear	19.4	1017.9	1.4	10	
92		2000 13	12 07	7 04	80					_	6.9				Clear	19.4	1018.3	2.2	30	
93		2000 13	12 07	07 05	8				<i>.</i>		7.6				Clear	19.3	1018.9	1.8	60	
94		2000 13	12 07	07 06	00						6.8				Clear	19.2	1018.9	1.6	40	
95		2000 10	12 07	07 07	00						6.9	2.5	ŝ	5G3.5/7	Clear	19.2	1020.2	2.8	360	
96		2000 12		07 08	00						6.9	2.8	6	5G3.5/7	Clear	19.1	1020.7	2.8	10	
97		2000 13	12 07	7 09	00						6.5	2.7	6	5G5/4	Clear	21.4	1020.9	1.5	330	
98		2000 10	12 07	7 10	00						6.6	2.5	6	5G5/4	Clear	22.1	1021.0	1.7	10	
66		2000 13	12 07	07 11	00					_ <u></u>	6.3	2.5	6	5G5/4	Clear	23.1	1020.1	3.0	10	
100		2000 1:	12 07	7 12	00						6.2	2.3	٢	10GY4.5/7	Clear	25.3	1018.4	1.5	10	

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page	
Total	

-	Point	Sampling time	ling	time		Position	ПО		Water	Transnarentv	Water	Tanan water		Air	Air	Wind	Wind	
No	No	Y M	a	H Min	in Latitude	le	Long	Longitude	depth (m)	(m)	color (No)	Japan water	Weather	temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Remark
101		2000 12	6	13 0	00		$\left - \right $		6.1	2.2	7	10GY4.5/7	Clear	24.5	1017.8	2.3	15	
102		2000 12	6	14 0	- 00				6.2	2.0	7	10GY4.5/7	Clear	24.5	1016.3	0.9	10	
103		2000 12	01	15 0	00		-		6.5	2.2	7	10GY4.5/7	Clear	24.7	1015.7	0.0	С	
2		2000 12	5	16 0	00		-	_	6.8	2.6	6	10GY4.5/7	Clear	25.4	1015.7	2.0	140	
105	P20	2000 12	05	10	00 22 11 5	55 " 11	113 ° 47	. 56 "	17.0	2.0	14	5GY6/4	Fog	18.9	1019.7	5.0	30	
106		2000 12	S	-	00				17.0	2.0	14	5GY6/4	Fog	19.4	1019.1	5.6	40	
107		2000 12	05	12 0	00				17.1	2.0	14	5G5/4	Fog	20.2	1018.0	5.2	40	
108		2000 12	05	13 0	00				17.2	1.9	14	5G5/4	Fog	19.5	1016.8	5.3	50	ł
109		2000 12	3	140	00		_	-	17.2	1.9	14	5G5/4	Fog	20.1	1015.8	4.1	10	
110		2000 12	S	15 0	00				18.7	2.2	14	5G5/4	Fog	20.1	1015.3	4.0	20	
Ξ		2000 12	05	16 0	00				18.4	2.7	14	5GY6/4	Fog	20.1	1014.7	4.2	80	
112		2000 12	05	17 0	00				18.6	2.9	14	5GY6/4	Fog	20.1	1015.9	5.0	100	
113		2000 12	05	18 0	00				18.7		i I I		Fog	6'61	1015.1	8.4	120	}
114		2000 12	0	19 0	00				18.8				Fog	19.7	1017.9	4.0	6	
115		2000 12	12 05	20 0	00		{	_	18.5				Fog	19.7	1018.4	4.2	06	
116		2000 12	S	21 0	- 00				18.0				Fog	18.9	1018.3	4.2	90	
117		2000 12 05		22 0	00				17.6				Fog	19.9	1018.9	5.4	80	
118		2000 12	ß	33	- 00			-	17.3				Fog	19.7	1018.9	5.2	80	
119		2000 12	8	8	8	-		_	17.3		_		Fog	20.1	1018.4	5.2	80	
120		2000 12	90	0				_	17.5				Fog	19.5	1017.9	3.7	60	
121		2000 12	8	0	- 00	-	-		17.7				Fog	19.3	1017.9	4.0	09	
122	╡	2000 12	8	8	8		-		18.3				Fog	18.9	1017.7	3.5	09	
123		2000 12	8	0	8		-		18.8				Fog	18.9	1017.7	3.2	40	
124		2000 12 06		0 20	00	┥			18.1				Fog	18.9	1017.4	4.2	40	
125		2000 12 06 06	8	_	00				17.9				Fog	17.9	1017.4	5.0	30	

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Transparency (m) Water (o)or (No) Japan water color Meather ((m) Mather ((n)) Japan water ((C)) Meather ((C)) Mea	<u>10</u>	1 otal page /																
No Y No Y No No </th <th>;</th> <th>_</th> <th></th> <th>aling</th> <th>time</th> <th></th> <th>ď</th> <th>osition</th> <th>Water</th> <th></th> <th>Water</th> <th>Japan water</th> <th></th> <th>Air</th> <th>Air</th> <th>Wind</th> <th>Wind</th> <th>Demode</th>	;	_		aling	time		ď	osition	Water		Water	Japan water		Air	Air	Wind	Wind	Demode
126 2000 12 0	ž		Υ				Latitude	Longitude	depth (m)	(m)	color (No)	color		temperature (°C)	pressure (hPs)	speed (m/s)	direction (°)	Kemark
17 2000 12 60 60 1 1 1 2 507/64 F/62 13 507/64 F/62 13 128 2000 12 60 00 1 1 1 1 3 507/64 F/62 203 1 139 2000 12 60 0 0 13 47' 13' 7'3 2'3'3 5'3/4 F/62 2'3'3 131 120 10 0 2'4' 11' 13'0 2'2 5 5/5/37 C/64 7/2 2'3'3 131 12 10 0 2'4' 13' 2'2' 5' 5/5/37 C/64 2'3'3 131 2000 12 13 0' 13'1 2'1'1 13'1'1 13'1'1 13'1'1 13'1'1'1 13'1'1'1'1'1'1'1'1'1'1'1'1'1'1'1'1'1'1'	12(00			18.0	2.9	13	5GY6/4	Fog	17.9	1017.4	4.8	30	
128 2000 12 60 60 60 60 60 60 60 60 60 60 73 200 129 2000 12 60 10 00 2 76 76 203 76 131 72 200 12 60 10 0 2 76 76 203 76 76 203 76 76 203 76 76 203 76 76 203 76 76 203 76 76 203 76 76 203 76 76 203 76 76 73 76 76 73 76 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76 76 73 76	127					00			17.6	2.9	13	5GY6/4	Fog	19.4	1019.4	2.4	30	
129 2000 12 06 10 00 17.5 2.7 13 5G/64 Fog 203 130 2000 12 60 10 00 2 60 1 00 2 65 13 5 5 70.6 70.6 70.6 20.3 131 2000 12 5 10 0 2.2 65 5 5 5 5 5 2.0 2 <td>128</td> <td></td> <td></td> <td></td> <td></td> <td>00</td> <td></td> <td></td> <td>17.9</td> <td>1.5</td> <td>13</td> <td>5GY6/4</td> <td>Fog</td> <td>20.1</td> <td>1019.9</td> <td>3.8</td> <td>40</td> <td></td>	128					00			17.9	1.5	13	5GY6/4	Fog	20.1	1019.9	3.8	40	
130 2000 12 06 1 0 7.3 2.90 13 FOR 7.00 13 10 0 2.00 12 10 00 13 7.7 13.0 2.00 12 10 00 22° 66 13.4 7.0 13.0 2.00 12 5 11 00 12 11 00 12 5 11 00 13.4 7.01 13.0 2.00 12 5 13 00 12 5 13 00 13.0 13.0 2.20 6 566.8 Clear 23.0 13.3 13.0	125					00			17.5	2.7	13	5GY6/4	Fog	20.3	1020.6	3.6	110	
	13(00			17.3	2.9	13	5G5/4	Fog	20.9	1020.3	3.0	70	
132 2000 12 10 0 1 125 200 12 10 1 10 213 506/8 Clar 213 133 2000 12 5 12 00 1 6 566/8 Clar 220 134 2000 12 5 13 00 2 6 566/8 Clar 220 135 2000 12 5 13 0 2 6 566/8 Clar 23.6 136 2000 12 5 13 0 2 13 2 6 567/6 Clar 23.6 137 2000 12 5 16 0 13 2 0 6 503/7 Clar 23.6 139 2000 12 5 16 0 13 2 0 13 2 140 2000 12 10 0 13 2	13]		2000		10		, 08	113 47		2.2	5	5G3.5/7	Clear	21.1	1020.0	5.2	20	
133 2000 15 12 00 1 130 22 6 56.68 Clear 220 134 2000 15 13 00 1 2 6 56.68 Clear 224 135 2000 15 14 00 1 130 2.1 6 567.64 Clear 224 136 2000 15 16 00 1 130 2.1 6 567.64 Clear 236 137 2000 15 17 00 1 3 2.0 6 567.64 Clear 236 138 2000 15 17 00 1 3 2.0 6 567.64 Clear 236 139 2000 15 19 00 135 2.0 6 567.64 Clear 234 140 2000 15 19 00 135 2.0 6 567.64	132				11	00			12.5	2.0	5	5G6/8	Clear	21.3	1019.3	5.0	340	
134 2000 12 13 00 13 00 13 00 13 00 14 00 14 00 14 00 14 00 14 00 15 14 00 14 130 21 6 5676/4 Clear 22.4 136 2000 12 16 00 1 13 200 6 5676/4 Clear 23.6 137 2000 12 5 16 0 13 20 6 5676/4 Clear 23.6 140 2000 12 5 19 00 1 13 20 6 563/4 Clear 23.4 141 2000 12 5 19 00 13 13.2 00 14 204 14 204 14 200 14 200 14 200 14 200 14 200 14 200 14 200	13	~			12	00			13.0	2.2	9	5G6/8	Clear	22.0	1016.3	6.2	330	
135 2000 12 6 13 0.1 6 5GY6/4 Clear 2.2.2 136 2000 12 5 16 00 7 6 5G3.57 Clear 23.6 137 2000 12 5 16 00 7 7 6 5G3.57 Clear 23.6 138 2000 12 5 10 7 7 6 5G5/4 Clear 23.6 140 2000 12 5 19 00 7 13.5 2.0 6 5G5/4 Clear 20.4 141 2000 12 5 19 0 13.5 20 0 13.5 20 0 20.4	13-	++			13	00			13.0	2.2	9	5C6/8	Clear	22.4	1016.1	5.6	360	
136 2000 12 5 16 0 13 2.0 6 5G3.57 Clear 23.6 137 2000 12 5 16 00 1 6 5G76/4 Clear 23.6 138 2000 12 5 17 00 1 6 5G76/4 Clear 23.6 139 2000 12 5 19 0 13.5 2.0 6 5G3/4 Clear 20.4 141 2000 12 5 19 0 13.5 0 13.5 0 13.5 20.4 14.8 20.4 Clear 20.4	13				14	00			13.0	2.1	9	5GY6/4	Clear	22.2	1015.8	5.6	10	
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Point NoSampling timeSampling timePoint AVate AVate ColorVate ColorVate ColorVate ColorAir <th>Total</th> <th>Total page 7</th> <th></th>	Total	Total page 7																	
No Y M D H Min Latitude Longitude (m) (m) (n) (n)<		Point		ampl	ing	time		Posi	tion	Water	Transnarencv	Water	Janan water			Air	Wind	Wind	
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	156		2000	12	6	11	00			12.0	2.5	9	5G5/4	Clear	21.4	1020.2	5.1	70	

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