

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: October 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 10 30	1 48	296 WNW	0.41	32.40	159 SSE	-30.22	11.70
1992 10 30	3 48	312 NW	0.60	38.27	160 SSE	-35.90	13.25
1992 10 30	5 48	291 WNW	0.36	17.69	137 SE	-12.85	12.16
1992 10 30	7 48	298 WNW	0.29	28.48	329 NNW	24.44	-14.62
1992 10 30	9 48	301 WNW	0.39	38.37	338 NNW	35.67	-14.13
1992 10 30	11 48	300 WNW	0.24	12.24	10 N	12.06	2.09
1992 10 30	13 48	299 WNW	0.23	35.06	157 SSE	-32.20	13.87
1992 10 30	15 48	297 WNW	0.34	40.69	161 SSE	-38.47	13.25
1992 10 30	17 48	292 WNW	0.24	19.23	151 SSE	-16.84	9.28
1992 10 30	19 48	290 WNW	0.20	24.70	1 N	24.69	0.46
1992 10 30	21 48	295 WNW	0.29	26.00	344 NNW	24.96	-7.28
1992 10 30	23 48	296 WNW	0.28	16.84	1 N	16.84	0.31
Average		297 WNW		27.50		-2.32	3.36
Maximum				40.69			
1992 10 31	1 48	294 WNW	0.25	25.10	143 SE	-20.11	15.03
1992 10 31	3 48	302 WNW	0.40	34.39	156 SSE	-31.36	14.11
1992 10 31	5 48	302 WNW	0.35	22.57	149 SSE	-19.26	11.78
1992 10 31	7 48	300 WNW	0.30	20.29	352 N	20.11	-2.67
1992 10 31	9 48	302 WNW	0.43	30.14	337 NNW	27.66	-11.97
1992 10 31	11 48	301 WNW	0.38	16.43	0 N	16.43	0.02
1992 10 31	13 48	298 WNW	0.33	19.57	143 SE	-15.67	11.72
1992 10 31	15 48	302 WNW	0.40	29.77	161 SSE	-28.09	9.87
1992 10 31	17 48	303 WNW	0.30	19.59	170 S	-19.26	3.57
1992 10 31	19 48	291 WNW	0.33	8.11	61 ENE	3.90	7.11
1992 10 31	21 48	298 WNW	0.30	23.99	342 NNW	22.82	-7.40
1992 10 31	23 48	298 WNW	0.29	17.17	354 N	17.07	-1.83
Average		299 WNW		22.26		-2.15	4.11
Maximum				34.39			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: November 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 1	1 48	297 WNW	0.23	4.94	140 SE	-3.78	3.19
1992 11 1	3 48	302 WNW	0.37	27.96	163 SSE	-26.68	8.37
1992 11 1	5 48	293 WNW	0.39	25.39	141 SE	-19.73	15.98
1992 11 1	7 48	295 WNW	0.24	6.21	1 N	6.21	0.06
1992 11 1	9 48	307 NW	0.36	23.69	341 NNW	22.34	-7.89
1992 11 1	11 48	305 NW	0.41	15.65	348 NNW	15.32	-3.18
1992 11 1	13 48	297 WNW	0.28	2.48	160 SSE	-2.34	0.84
1992 11 1	15 48	311 NW	0.42	22.50	166 SSE	-21.86	5.33
1992 11 1	17 48	307 NW	0.34	19.19	175 S	-19.10	1.83
1992 11 1	19 48	286 WNW	0.72	6.44	163 SSE	-6.16	1.87
1992 11 1	21 48	300 WNW	0.37	12.45	358 N	12.45	-0.44
1992 11 1	23 48	306 NW	0.35	13.97	343 NNW	13.33	-4.18
Average		301 WNW		15.07		-2.50	1.82
Maximum				27.96			
1992 11 2	1 48	295 WNW	0.21	1.23	319 NW	0.93	-0.81
1992 11 2	3 48	314 NW	0.50	17.80	171 S	-17.57	2.88
1992 11 2	5 48	299 WNW	0.49	20.11	143 SE	-16.14	12.00
1992 11 2	7 48	295 WNW	0.34	7.10	137 SE	-5.22	4.82
1992 11 2	9 48	303 WNW	0.30	12.29	337 NNW	11.35	-4.71
1992 11 2	11 48	312 NW	0.52	16.29	342 NNW	15.45	-5.15
1992 11 2	13 48	299 WNW	0.35	6.44	344 NNW	6.21	-1.73
1992 11 2	15 48	308 NW	0.30	10.46	172 S	-10.36	1.47
1992 11 2	17 48	309 NW	0.43	14.75	167 SSE	-14.34	3.42
1992 11 2	19 48	315 NW	0.61	10.63	172 S	-10.52	1.50
1992 11 2	21 48	297 WNW	0.32	7.12	24 NNE	6.49	2.93
1992 11 2	23 48	303 WNW	0.45	13.40	347 NNW	13.04	-3.12
Average		304 NW		11.47		-1.72	1.13
Maximum				20.11			
1992 11 3	1 48	308 NW	0.53	11.34	349 N	11.14	-2.14
1992 11 3	3 48	298 WNW	0.41	3.22	153 SSE	-2.88	1.44
1992 11 3	5 48	304 NW	0.38	13.18	164 SSE	-12.65	3.70
1992 11 3	7 48	304 NW	0.35	9.97	158 SSE	-9.26	3.69
1992 11 3	9 48	289 WNW	0.33	5.80	56 NE	3.23	4.82
1992 11 3	11 48	304 NW	0.41	10.26	330 NNW	8.87	-5.14
1992 11 3	13 48	301 WNW	0.45	10.12	325 NW	8.27	-5.83
1992 11 3	15 48	292 WNW	0.38	1.58	273 W	0.09	-1.57
1992 11 3	17 48	296 WNW	0.41	12.48	164 SSE	-12.03	3.35
1992 11 3	19 48	310 NW	0.50	15.06	168 SSE	-14.74	3.09
1992 11 3	21 48	322 NW	0.58	10.00	159 SSE	-9.36	3.53
1992 11 3	23 48	290 WNW	0.33	3.62	14 NNE	3.52	0.86
Average		302 WNW		8.89		-2.15	0.82
Maximum				15.06			
1992 11 4	1 48	300 WNW	0.58	11.79	340 NNW	11.08	-4.01
1992 11 4	3 48	287 WNW	0.45	7.10	351 N	7.02	-1.05
1992 11 4	5 48	305 NW	0.41	8.57	170 S	-8.44	1.51
1992 11 4	7 48	315 NW	0.53	15.20	166 SSE	-14.76	3.61
1992 11 4	9 48	318 NW	0.50	15.24	159 SSE	-14.25	5.38
1992 11 4	11 48	294 WNW	0.35	2.61	123 ESE	-1.43	2.18
1992 11 4	13 48	304 NW	0.45	9.15	330 NNW	7.92	-4.58
1992 11 4	15 48	300 WNW	0.45	8.84	332 NNW	7.80	-4.17
1992 11 4	17 48	292 WNW	0.38	7.82	133 SE	-5.35	5.70
1992 11 4	19 48	308 NW	0.61	18.39	160 SSE	-17.23	6.42
1992 11 4	21 48	319 NW	0.65	21.50	165 SSE	-20.75	5.63
1992 11 4	23 48	297 WNW	0.45	6.58	172 S	-6.51	0.94
Average		303 WNW		11.07		-4.58	1.46
Maximum				21.50			
1992 11 5	1 48	306 NW	0.41	11.48	335 NNW	10.40	-4.85
1992 11 5	3 48	303 WNW	0.53	17.44	335 NNW	15.86	-7.27
1992 11 5	5 48	304 NW	0.53	8.11	355 N	8.08	-0.69
1992 11 5	7 48	304 NW	0.41	13.01	158 SSE	-12.06	4.88
1992 11 5	9 48	323 NW	0.55	22.62	159 SSE	-21.18	7.95
1992 11 5	11 48	307 NW	0.53	13.35	162 SSE	-12.68	4.16
1992 11 5	13 48	286 WNW	0.67	7.27	14 NNE	7.06	1.75
1992 11 5	15 48	305 NW	0.63	15.34	339 NNW	14.36	-5.39
1992 11 5	17 48	330 NNW	0.67	8.08	4 N	8.06	0.55
1992 11 5	19 48	289 WNW	0.53	14.65	139 SE	-11.03	9.65
1992 11 5	21 48	305 NW	0.53	24.18	156 SSE	-22.01	10.01
1992 11 5	23 48	320 NW	0.61	17.43	166 SSE	-16.94	4.09
Average		307 NW		14.41		-2.67	2.07
Maximum				24.18			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: November 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 6	1 48	305 NW	0.47	6.37	20 NNE	5.98	2.18
1992 11 6	3 48	315 NW	0.58	25.61	338 NNW	23.80	-9.44
1992 11 6	5 48	314 NW	0.58	17.81	346 NNW	17.29	-4.26
1992 11 6	7 48	296 WNW	0.45	5.95	127 SE	-3.60	4.74
1992 11 6	9 48	327 NNW	0.58	26.10	165 SSE	-25.18	6.85
1992 11 6	11 48	307 NW	0.71	27.02	156 SSE	-24.77	10.80
1992 11 6	13 48	297 WNW	0.58	3.93	135 SE	-2.80	2.77
1992 11 6	15 48	305 NW	0.50	22.23	331 NNW	19.45	-10.77
1992 11 6	17 48	318 NW	0.58	18.38	343 NNW	17.59	-5.35
1992 11 6	19 48	292 WNW	0.43	5.31	115 ESE	-2.28	4.79
1992 11 6	21 48	318 NW	0.67	28.10	162 SSE	-26.68	8.80
1992 11 6	23 48	163 SSE	0.60	32.80	165 SSE	-31.70	8.41
Average		296 WNW		18.30		-2.74	1.63
Maximum				32.80			
1992 11 7	1 48	283 WNW	0.34	13.81	156 SSE	-12.63	5.59
1992 11 7	3 48	303 WNW	0.58	24.09	337 NNW	22.14	-9.50
1992 11 7	5 48	307 NW	0.60	28.47	342 NNW	27.07	-8.84
1992 11 7	7 48	296 WNW	0.55	13.49	350 N	13.28	-2.33
1992 11 7	9 48	299 WNW	0.43	22.01	164 SSE	-21.13	6.15
1992 11 7	11 48	312 NW	0.63	28.17	166 SSE	-27.39	6.59
1992 11 7	13 48	305 NW	0.55	13.99	179 S	-13.99	0.26
1992 11 7	15 48	293 WNW	0.33	16.92	339 NNW	15.78	-6.10
1992 11 7	17 48	301 WNW	0.52	23.77	339 NNW	22.12	-8.69
1992 11 7	19 48	302 WNW	0.45	8.43	348 NNW	8.24	-1.74
1992 11 7	21 48	301 WNW	0.43	20.83	166 SSE	-20.25	4.89
1992 11 7	23 48	320 NW	0.65	31.55	167 SSE	-30.75	7.04
Average		302 WNW		20.46		-1.46	-0.56
Maximum				31.55			
1992 11 8	1 48	309 NW	0.52	15.31	174 S	-15.23	1.55
1992 11 8	3 48	295 WNW	0.43	23.19	337 NNW	21.32	-9.13
1992 11 8	5 48	307 NW	0.61	36.04	335 NNW	32.65	-15.26
1992 11 8	7 48	297 WNW	0.46	27.15	338 NNW	25.25	-9.96
1992 11 8	9 48	282 WNW	0.54	11.76	161 SSE	-11.11	3.85
1992 11 8	11 48	304 NW	0.65	30.63	168 SSE	-30.00	6.17
1992 11 8	13 48	284 WNW	0.58	20.64	169 S	-20.24	4.04
1992 11 8	15 48	284 WNW	0.34	15.83	341 NNW	14.98	-5.14
1992 11 8	17 48	297 WNW	0.44	30.02	338 NNW	27.82	-11.27
1992 11 8	19 48	293 WNW	0.41	17.36	348 NNW	16.97	-3.64
1992 11 8	21 48	288 WNW	0.40	15.10	143 SE	-12.09	9.04
1992 11 8	23 48	302 WNW	0.55	31.99	165 SSE	-30.93	8.17
Average		295 WNW		22.92		1.62	-1.80
Maximum				36.04			
1992 11 9	1 48	320 NW	0.48	25.82	168 SSE	-25.24	5.43
1992 11 9	3 48	306 NW	0.50	11.08	354 N	11.02	-1.22
1992 11 9	5 48	307 NW	0.54	40.48	335 NNW	36.63	-17.24
1992 11 9	7 48	300 WNW	0.50	25.38	343 NNW	24.23	-7.53
1992 11 9	9 48	284 WNW	0.35	3.98	102 ESE	-0.83	3.90
1992 11 9	11 48	322 NW	0.57	32.85	165 SSE	-31.68	8.69
1992 11 9	13 48	314 NW	0.58	11.37	184 S	-11.35	-0.77
1992 11 9	15 48	280 W	0.32	0.51	296 WNW	0.22	-0.46
1992 11 9	17 48	298 WNW	0.50	21.62	335 NNW	19.59	-9.14
1992 11 9	19 48	297 WNW	0.48	17.81	340 NNW	16.77	-6.00
1992 11 9	21 48	278 W	0.27	0.42	76 ENE	0.10	0.41
1992 11 9	23 48	311 NW	0.46	18.56	171 S	-18.32	2.95
Average		301 WNW		17.49		1.76	-1.75
Maximum				40.48			
1992 11 10	1 48	311 NW	0.55	17.31	172 S	-17.16	2.28
1992 11 10	3 48	282 WNW	0.35	1.82	279 W	0.28	-1.80
1992 11 10	5 48	318 NW	0.73	27.09	332 NNW	23.91	-12.74
1992 11 10	7 48	323 NW	0.75	23.04	334 NNW	20.73	-10.05
1992 11 10	9 48	298 WNW	0.63	4.36	3 N	4.35	0.20
1992 11 10	11 48	326 NW	0.71	19.61	165 SSE	-18.97	4.98
1992 11 10	13 48	317 NW	0.61	15.67	172 S	-15.50	2.31
1992 11 10	15 48	307 NW	0.50	4.58	165 SSE	-4.42	1.19
1992 11 10	17 48	316 NW	0.82	14.08	326 NW	11.73	-7.79
1992 11 10	19 48	340 NNW	0.71	19.73	335 NNW	17.89	-8.33
1992 11 10	21 48	317 NW	0.58	6.50	354 N	6.47	-0.63
1992 11 10	23 48	319 NW	0.63	12.93	162 SSE	-12.31	3.95
Average		315 NW		13.89		1.42	-2.20
Maximum				27.09			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: November 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 11	1 48	320 NW	0.76	17.99	166 SSE	-17.49	4.21
1992 11 11	3 48	314 NW	0.71	5.46	197 SSW	-5.22	-1.61
1992 11 11	5 48	327 NNW	0.71	20.97	329 NNW	17.94	-10.86
1992 11 11	7 48	342 NNW	0.76	24.44	332 NNW	21.58	-11.48
1992 11 11	9 48	290 WNW	0.12	7.68	348 NNW	7.51	-1.64
1992 11 11	11 48	319 NW	0.71	14.55	156 SSE	-13.31	5.87
1992 11 11	13 48	332 NNW	0.82	19.65	165 SSE	-18.99	5.03
1992 11 11	15 48	333 NNW	0.63	10.51	155 SSE	-9.55	4.40
1992 11 11	17 48	169 S	0.41	13.18	336 NNW	12.00	-5.44
1992 11 11	19 48	318 NW	0.82	23.59	337 NNW	21.68	-9.30
1992 11 11	21 48	310 NW	0.50	10.38	356 N	10.35	-0.69
1992 11 11	23 48	310 NW	0.58	9.85	148 SSE	-8.30	5.29
Average		307 NW		14.85		1.52	-1.35
Maximum				24.44			
1992 11 12	1 48	324 NW	0.71	22.48	164 SSE	-21.63	6.14
1992 11 12	3 48	311 NW	0.71	10.18	168 SSE	-9.94	2.17
1992 11 12	5 48	311 NW	0.58	14.53	332 NNW	12.82	-6.84
1992 11 12	7 48	323 NW	0.78	29.51	331 NNW	25.78	-14.36
1992 11 12	9 48	250 WSW	0.43	13.82	351 N	13.65	-2.16
1992 11 12	11 48	301 WNW	0.50	9.64	140 SE	-7.37	6.22
1992 11 12	13 48	321 NW	0.77	21.76	163 SSE	-20.77	6.51
1992 11 12	15 48	316 NW	0.71	15.42	166 SSE	-14.97	3.70
1992 11 12	17 48	294 WNW	0.58	2.26	350 N	2.22	-0.40
1992 11 12	19 48	331 NNW	0.79	21.76	331 NNW	19.07	-10.49
1992 11 12	21 48	304 NW	0.61	16.10	337 NNW	14.81	-6.31
1992 11 12	23 48	300 WNW	0.41	2.23	122 ESE	-1.18	1.89
Average		307 NW		14.97		1.04	-1.16
Maximum				29.51			
1992 11 13	1 48	325 NW	0.71	23.50	164 SSE	-22.56	6.60
1992 11 13	3 48	316 NW	0.65	14.85	171 S	-14.69	2.21
1992 11 13	5 48	300 WNW	0.58	2.01	321 NW	1.56	-1.27
1992 11 13	7 48	336 NNW	0.71	23.33	328 NNW	19.84	-12.28
1992 11 13	9 48	315 NW	0.71	17.66	332 NNW	15.65	-8.18
1992 11 13	11 48	303 WNW	0.45	2.74	111 ESE	-0.98	2.56
1992 11 13	13 48	317 NW	0.76	19.78	164 SSE	-19.04	5.36
1992 11 13	15 48	318 NW	0.77	13.55	170 S	-13.35	2.29
1992 11 13	17 48	263 W	0.41	1.10	148 SSE	-0.93	0.59
1992 11 13	19 48	307 NW	0.82	16.48	332 NNW	14.59	-7.66
1992 11 13	21 48	325 NW	0.71	15.69	336 NNW	14.29	-6.47
1992 11 13	23 48	305 NW	0.58	5.73	356 N	5.72	-0.38
Average		311 NW		13.04		0.01	-1.39
Maximum				23.50			
1992 11 14	1 48	316 NW	0.71	16.28	161 SSE	-15.41	5.26
1992 11 14	3 48	322 NW	0.61	15.63	157 SSE	-14.40	6.08
1992 11 14	5 48	295 WNW	0.58	3.19	187 S	-3.16	-0.41
1992 11 14	7 48	292 WNW	0.58	19.45	331 NNW	17.01	-9.44
1992 11 14	9 48	315 NW	0.71	22.83	331 NNW	19.93	-11.13
1992 11 14	11 48	298 WNW	0.45	4.50	350 N	4.43	-0.78
1992 11 14	13 48	323 NW	0.61	15.64	160 SSE	-14.69	5.37
1992 11 14	15 48	286 WNW	0.53	16.70	167 SSE	-16.26	3.83
1992 11 14	17 48	308 NW	0.63	8.87	160 SSE	-8.32	3.07
1992 11 14	19 48	281 W	0.58	10.16	343 NNW	9.70	-3.02
1992 11 14	21 48	301 WNW	0.67	18.38	335 NNW	16.65	-7.77
1992 11 14	23 48	293 WNW	0.50	10.34	345 NNW	9.99	-2.68
Average		303 WNW		13.50		0.46	-0.97
Maximum				22.83			
1992 11 15	1 48	305 NW	0.58	11.54	156 SSE	-10.58	4.60
1992 11 15	3 48	310 NW	0.73	21.07	165 SSE	-20.38	5.33
1992 11 15	5 48	304 NW	0.71	10.77	171 S	-10.64	1.69
1992 11 15	7 48	289 WNW	0.82	9.07	343 NNW	8.65	-2.72
1992 11 15	9 48	317 NW	0.76	15.53	329 NNW	13.28	-8.05
1992 11 15	11 48	298 WNW	0.58	8.96	341 NNW	8.47	-2.94
1992 11 15	13 48	291 WNW	0.45	6.14	142 SE	-4.87	3.74
1992 11 15	15 48	291 WNW	0.58	20.01	165 SSE	-19.36	5.06
1992 11 15	17 48	298 WNW	0.67	11.62	164 SSE	-11.17	3.20
1992 11 15	19 48	281 W	0.50	1.49	332 NNW	1.32	-0.69
1992 11 15	21 48	293 WNW	0.41	18.10	351 N	17.87	-2.86
1992 11 15	23 48	302 WNW	0.42	14.64	348 NNW	14.35	-2.93
Average		298 WNW		12.41		-1.09	0.29
Maximum				21.07			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: November 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 16	1 48	319 NW	0.49	0.68	219 SW	-0.53	-0.43
1992 11 16	3 48	325 NW	0.47	16.02	175 S	-15.96	1.39
1992 11 16	5 48	318 NW	0.45	12.56	180 S	-12.56	0.10
1992 11 16	7 48	277 W	0.52	1.59	38 NE	1.25	0.98
1992 11 16	9 48	315 NW	0.61	25.87	334 NNW	23.27	-11.30
1992 11 16	11 48	306 NW	0.61	19.85	342 NNW	18.85	-6.24
1992 11 16	13 48	287 WNW	0.49	1.49	38 NE	1.18	0.91
1992 11 16	15 48	298 WNW	0.55	13.83	173 S	-13.72	1.75
1992 11 16	17 48	292 WNW	0.52	14.23	175 S	-14.17	1.34
1992 11 16	19 48	316 NW	0.58	7.29	174 S	-7.25	0.81
1992 11 16	21 48	308 NW	0.55	14.23	346 NNW	13.79	-3.55
1992 11 16	23 48	293 WNW	0.77	20.51	340 NNW	19.27	-7.02
Average		305 NW		12.35		1.12	-1.77
Maximum				25.87			
1992 11 17	1 48	269 W	0.63	8.31	337 NNW	7.64	-3.25
1992 11 17	3 48	317 NW	0.45	8.60	177 S	-8.59	0.43
1992 11 17	5 48	309 NW	0.45	10.26	174 S	-10.20	1.12
1992 11 17	7 48	290 WNW	0.50	2.81	218 SW	-2.22	-1.73
1992 11 17	9 48	164 SSE	0.48	15.27	343 NNW	14.60	-4.48
1992 11 17	11 48	298 WNW	0.84	19.04	338 NNW	17.63	-7.19
1992 11 17	13 48	275 W	0.77	8.57	348 NNW	8.38	-1.75
1992 11 17	15 48	282 WNW	0.28	4.39	169 S	-4.31	0.82
1992 11 17	17 48	172 S	0.15	18.07	174 S	-17.97	1.92
1992 11 17	19 48	171 S	0.21	12.86	179 S	-12.86	0.17
1992 11 17	21 48	274 W	0.58	1.52	326 NW	1.26	-0.86
1992 11 17	23 48	238 WSW	0.33	15.15	340 NNW	14.26	-5.13
Average		255 WSW		10.40		0.64	-1.66
Maximum				19.04			
1992 11 18	1 48	239 WSW	0.37	13.39	343 NNW	12.80	-3.94
1992 11 18	3 48	225 SW	0.51	2.74	358 N	2.74	-0.09
1992 11 18	5 48	296 WNW	0.50	8.87	158 SSE	-8.23	3.32
1992 11 18	7 48	298 WNW	0.50	9.09	166 SSE	-8.84	2.12
1992 11 18	9 48	282 WNW	0.30	1.29	232 SW	-0.80	-1.01
1992 11 18	11 48	247 WSW	0.61	13.48	340 NNW	12.71	-4.50
1992 11 18	13 48	275 W	0.71	13.43	340 NNW	12.60	-4.65
1992 11 18	15 48	276 W	0.49	1.77	354 N	1.76	-0.18
1992 11 18	17 48	169 S	0.35	12.22	164 SSE	-11.76	3.32
1992 11 18	19 48	184 S	0.56	15.81	178 S	-15.80	0.49
1992 11 18	21 48	317 NW	0.76	9.23	181 S	-9.23	-0.23
1992 11 18	23 48	287 WNW	0.35	6.53	21 NNE	6.11	2.31
Average		258 WSW		8.99		-0.49	-0.25
Maximum				15.81			
1992 11 19	1 48	232 SW	0.65	15.58	344 NNW	14.94	-4.42
1992 11 19	3 48	245 WSW	0.57	11.03	347 NNW	10.76	-2.46
1992 11 19	5 48	299 WNW	0.78	3.73	149 SSE	-3.20	1.92
1992 11 19	7 48	309 NW	0.53	13.44	159 SSE	-12.59	4.71
1992 11 19	9 48	316 NW	0.61	13.66	174 S	-13.57	1.53
1992 11 19	11 48	299 WNW	0.38	3.83	343 NNW	3.66	-1.11
1992 11 19	13 48	329 NNW	0.79	15.28	335 NNW	13.89	-6.36
1992 11 19	15 48	313 NW	0.50	12.13	330 NNW	10.50	-6.06
1992 11 19	17 48	298 WNW	0.43	2.92	169 S	-2.86	0.57
1992 11 19	19 48	319 NW	0.53	19.10	165 SSE	-18.40	5.10
1992 11 19	21 48	326 NW	0.65	20.88	162 SSE	-19.91	6.29
1992 11 19	23 48	318 NW	0.71	9.36	164 SSE	-8.99	2.59
Average		300 WNW		11.75		-2.15	0.19
Maximum				20.88			
1992 11 20	1 48	318 NW	0.58	8.93	332 NNW	7.92	-4.14
1992 11 20	3 48	315 NW	0.63	13.57	336 NNW	12.45	-5.41
1992 11 20	5 48	304 NW	0.50	3.99	349 N	3.91	-0.79
1992 11 20	7 48	314 NW	0.50	6.66	166 SSE	-6.45	1.67
1992 11 20	9 48	319 NW	0.71	12.49	169 S	-12.26	2.42
1992 11 20	11 48	318 NW	0.58	7.08	171 S	-7.00	1.05
1992 11 20	13 48	314 NW	0.50	4.76	327 NNW	3.98	-2.62
1992 11 20	15 48	314 NW	0.63	13.78	336 NNW	12.57	-5.65
1992 11 20	17 48	304 NW	0.45	5.62	330 NNW	4.87	-2.81
1992 11 20	19 48	324 NW	0.00	6.02	176 S	-6.01	0.40
1992 11 20	21 48	328 NNW	0.50	11.57	171 S	-11.41	1.89
1992 11 20	23 48	323 NW	0.58	9.33	170 S	-9.19	1.64
Average		316 NW		8.65		-0.55	-1.03
Maximum				13.78			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: November 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 21	1 48	316 NW	0.38	3.48	341 NNW	3.29	-1.14
1992 11 21	3 48	333 NNW	0.67	22.59	341 NNW	21.34	-7.42
1992 11 21	5 48	338 NNW	0.63	19.39	341 NNW	18.33	-6.32
1992 11 21	7 48	312 NW	0.50	3.25	11 N	3.20	0.59
1992 11 21	9 48	306 NW	0.58	15.49	160 SSE	-14.53	5.38
1992 11 21	11 48	313 NW	0.63	15.89	166 SSE	-15.40	3.90
1992 11 21	13 48	293 WNW	0.58	3.13	211 SSW	-2.68	-1.63
1992 11 21	15 48	317 NW	0.58	13.11	329 NNW	11.28	-6.68
1992 11 21	17 48	334 NNW	0.55	15.68	338 NNW	14.58	-5.77
1992 11 21	19 48	295 WNW	0.63	2.14	10 N	2.11	0.38
1992 11 21	21 48	315 NW	0.55	18.53	162 SSE	-17.63	5.72
1992 11 21	23 48	317 NW	0.60	19.16	164 SSE	-18.42	5.27
Average		316 NW		12.65		0.46	-0.64
Maximum				22.59			
1992 11 22	1 48	314 NW	0.50	8.42	168 SSE	-8.23	1.79
1992 11 22	3 48	312 NW	0.52	15.79	339 NNW	14.70	-5.78
1992 11 22	5 48	323 NW	0.63	21.20	336 NNW	19.29	-8.78
1992 11 22	7 48	306 NW	0.50	6.18	0 N	6.18	0.00
1992 11 22	9 48	303 WNW	0.38	15.24	154 SSE	-13.71	6.66
1992 11 22	11 48	306 NW	0.54	21.67	163 SSE	-20.70	6.40
1992 11 22	13 48	307 NW	0.40	14.03	168 SSE	-13.71	3.01
1992 11 22	15 48	308 NW	0.53	11.79	345 NNW	11.41	-2.97
1992 11 22	17 48	318 NW	0.52	18.90	343 NNW	18.11	-5.40
1992 11 22	19 48	311 NW	0.33	5.68	18 NNE	5.41	1.73
1992 11 22	21 48	311 NW	0.45	17.58	152 SSE	-15.58	8.14
1992 11 22	23 48	313 NW	0.59	30.53	161 SSE	-28.90	9.82
Average		311 NW		15.58		-2.14	1.22
Maximum				30.53			
1992 11 23	1 48	312 NW	0.39	21.00	168 SSE	-20.57	4.23
1992 11 23	3 48	307 NW	0.39	11.17	354 N	11.12	-1.14
1992 11 23	5 48	317 NW	0.54	26.94	338 NNW	25.00	-10.04
1992 11 23	7 48	319 NW	0.45	15.67	351 N	15.49	-2.36
1992 11 23	9 48	303 WNW	0.31	8.48	143 SE	-6.77	5.10
1992 11 23	11 48	319 NW	0.52	30.54	163 SSE	-29.25	8.78
1992 11 23	13 48	318 NW	0.49	23.24	165 SSE	-22.41	6.18
1992 11 23	15 48	294 WNW	0.31	1.70	54 NE	1.00	1.38
1992 11 23	17 48	316 NW	0.53	21.80	340 NNW	20.55	-7.29
1992 11 23	19 48	323 NW	0.41	14.54	347 NNW	14.15	-3.32
1992 11 23	21 48	298 WNW	0.31	5.15	122 ESE	-2.72	4.37
1992 11 23	23 48	320 NW	0.53	29.37	164 SSE	-28.26	8.00
Average		312 NW		17.47		-1.89	1.16
Maximum				30.54			
1992 11 24	1 48	316 NW	0.52	23.49	167 SSE	-22.91	5.18
1992 11 24	3 48	292 WNW	0.34	1.97	139 SE	-1.49	1.28
1992 11 24	5 48	324 NW	0.62	32.30	338 NNW	29.86	-12.33
1992 11 24	7 48	322 NW	0.48	24.72	337 NNW	22.72	-9.73
1992 11 24	9 48	315 NW	0.65	1.34	34 NE	1.11	0.75
1992 11 24	11 48	323 NW	0.66	26.77	165 SSE	-25.85	6.94
1992 11 24	13 48	334 NNW	0.74	24.88	169 S	-24.41	4.84
1992 11 24	15 48	314 NW	0.53	9.38	160 SSE	-8.79	3.26
1992 11 24	17 48	327 NNW	0.58	17.98	335 NNW	16.24	-7.71
1992 11 24	19 48	327 NNW	0.61	18.91	346 NNW	18.36	-4.54
1992 11 24	21 48	315 NW	0.58	4.08	72 ENE	1.24	3.89
1992 11 24	23 48	325 NW	0.71	24.45	163 SSE	-23.39	7.11
Average		320 NW		17.52		-1.44	-0.09
Maximum				32.30			
1992 11 25	1 48	335 NNW	0.65	27.24	164 SSE	-26.20	7.46
1992 11 25	3 48	323 NW	0.63	13.73	174 S	-13.65	1.50
1992 11 25	5 48	321 NW	0.71	9.33	313 NW	6.38	-6.81
1992 11 25	7 48	331 NNW	0.71	13.06	322 NW	10.33	-8.00
1992 11 25	9 48	307 NW	0.00	0.18	225 SW	-0.13	-0.13
1992 11 25	11 48	321 NW	0.82	13.52	153 SSE	-12.00	6.24
1992 11 25	13 48	164 SSE	0.65	24.42	161 SSE	-23.14	7.81
1992 11 25	15 48	337 NNW	0.58	11.80	149 SSE	-10.14	6.05
1992 11 25	17 48	174 S	0.00	3.86	310 NW	2.47	-2.96
1992 11 25	19 48	314 NW	0.71	10.50	326 NW	8.69	-5.89
1992 11 25	21 48	312 NW	0.71	2.48	323 NW	1.97	-1.50
1992 11 25	23 48	316 NW	0.71	8.71	152 SSE	-7.72	4.03
Average		296 WNW		11.57		-5.26	0.65
Maximum				27.24			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: November 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 11 26	1 48	333 NNW	0.85	21.23	163 SSE	-20.28	6.27
1992 11 26	3 48	317 NW	0.53	16.44	167 SSE	-16.04	3.59
1992 11 26	5 48	166 SSE	0.00	3.48	299 WNW	1.67	-3.06
1992 11 26	7 48	333 NNW	0.67	15.42	325 NW	12.60	-8.88
1992 11 26	9 48	319 NW	0.71	3.43	321 NW	2.68	-2.14
1992 11 26	11 48	318 NW	0.58	9.67	148 SSE	-8.19	5.14
1992 11 26	13 48	341 NNW	0.79	22.23	163 SSE	-21.27	6.48
1992 11 26	15 48	339 NNW	1.00	14.41	166 SSE	-14.01	3.40
1992 11 26	17 48	169 S	1.00	1.12	221 SW	-0.85	-0.73
1992 11 26	19 48	328 NNW	0.71	8.32	324 NW	6.73	-4.88
1992 11 26	21 48	329 NNW	0.71	6.51	326 NW	5.41	-3.63
1992 11 26	23 48	169 S	0.00	3.06	164 SSE	-2.94	0.85
Average		288 WNW		10.44		-4.54	0.20
Maximum				22.23			
1992 11 27	1 48	167 SSE	0.89	18.61	167 SSE	-18.12	4.24
1992 11 27	3 48	334 NNW	0.87	15.60	169 S	-15.32	2.94
1992 11 27	5 48	- N	-	2.13	208 SSW	-1.88	-0.99
1992 11 27	7 48	335 NNW	0.76	14.18	330 NNW	12.24	-7.17
1992 11 27	9 48	309 NW	0.71	6.86	331 NNW	6.00	-3.31
1992 11 27	11 48	334 NNW	0.00	3.60	162 SSE	-3.43	1.11
1992 11 27	13 48	337 NNW	0.65	19.90	162 SSE	-18.96	6.04
1992 11 27	15 48	337 NNW	0.82	15.78	165 SSE	-15.20	4.21
1992 11 27	17 48	331 NNW	0.71	4.76	173 S	-4.72	0.61
1992 11 27	19 48	333 NNW	1.00	7.37	327 NNW	6.21	-3.97
1992 11 27	21 48	336 NNW	0.71	10.88	331 NNW	9.53	-5.26
1992 11 27	23 48	324 NW	0.71	0.95	358 N	0.95	-0.03
Average		290 WNW		10.05		-3.56	-0.13
Maximum				19.90			
1992 11 28	1 48	174 S	0.71	12.38	171 S	-12.23	1.92
1992 11 28	3 48	337 NNW	0.65	15.55	170 S	-15.29	2.81
1992 11 28	5 48	293 WNW	1.00	5.24	186 S	-5.21	-0.57
1992 11 28	7 48	333 NNW	0.71	9.53	329 NNW	8.16	-4.93
1992 11 28	9 48	323 NW	0.71	10.86	331 NNW	9.51	-5.25
1992 11 28	11 48	334 NNW	1.00	1.21	123 ESE	-0.66	1.01
1992 11 28	13 48	340 NNW	1.00	14.89	161 SSE	-14.12	4.73
1992 11 28	15 48	339 NNW	0.87	16.24	166 SSE	-15.78	3.84
1992 11 28	17 48	312 NW	0.71	7.76	177 S	-7.75	0.42
1992 11 28	19 48	317 NW	1.00	4.74	332 NNW	4.21	-2.20
1992 11 28	21 48	169 S	0.71	8.88	335 NNW	8.01	-3.82
1992 11 28	23 48	335 NNW	0.50	3.73	332 NNW	3.28	-1.78
Average		301 WNW		9.25		-3.16	-0.32
Maximum				16.24			
1992 11 29	1 48	318 NW	0.71	6.94	176 S	-6.93	0.49
1992 11 29	3 48	315 NW	0.82	13.60	170 S	-13.40	2.29
1992 11 29	5 48	308 NW	0.71	8.76	177 S	-8.75	0.39
1992 11 29	7 48	170 S	0.00	6.84	330 NNW	5.91	-3.46
1992 11 29	9 48	339 NNW	0.63	14.92	332 NNW	13.11	-7.11
1992 11 29	11 48	166 SSE	1.00	3.24	333 NNW	2.88	-1.48
1992 11 29	13 48	310 NW	0.71	10.14	158 SSE	-9.41	3.79
1992 11 29	15 48	326 NW	0.77	17.47	168 SSE	-17.08	3.68
1992 11 29	17 48	331 NNW	0.71	11.56	175 S	-11.53	0.92
1992 11 29	19 48	207 SSW	0.58	0.43	357 N	0.43	-0.03
1992 11 29	21 48	171 S	0.71	8.82	333 NNW	7.88	-3.95
1992 11 29	23 48	172 S	1.00	5.29	343 NNW	5.04	-1.59
Average		261 W		9.00		-2.65	-0.51
Maximum				17.47			
1992 11 30	1 48	314 NW	0.00	5.65	184 S	-5.64	-0.43
1992 11 30	3 48	339 NNW	0.82	14.51	170 S	-14.30	2.44
1992 11 30	5 48	182 S	0.82	12.38	176 S	-12.35	0.87
1992 11 30	7 48	196 SSW	0.45	2.38	242 WSW	-1.10	-2.11
1992 11 30	9 48	163 SSE	0.58	9.79	327 NNW	8.24	-5.29
1992 11 30	11 48	330 NNW	0.71	4.94	337 NNW	4.57	-1.89
1992 11 30	13 48	267 W	0.13	4.26	164 SSE	-4.10	1.18
1992 11 30	15 48	299 WNW	0.82	13.99	172 S	-13.86	1.91
1992 11 30	17 48	341 NNW	0.71	11.25	184 S	-11.21	-0.86
1992 11 30	19 48	268 W	0.28	2.93	205 SSW	-2.66	-1.24
1992 11 30	21 48	338 NNW	0.71	7.39	334 NNW	6.63	-3.28
1992 11 30	23 48	335 NNW	0.58	10.06	343 NNW	9.62	-2.96
Average		281 W		8.29		-3.01	-0.97
Maximum				14.51			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 1	11 48	322 NW	0.63	23.08	338 NNW	21.34	-8.77
1992 12 1	13 48	284 WNW	0.53	5.99	84 E	0.65	5.95
1992 12 1	15 48	315 NW	0.58	21.59	153 SSE	-19.32	9.63
1992 12 1	17 48	338 NNW	0.85	24.23	164 SSE	-23.29	6.68
1992 12 1	19 48	316 NW	0.61	10.65	178 S	-10.65	0.39
1992 12 1	21 48	321 NW	0.58	17.16	332 NNW	15.12	-8.13
1992 12 1	23 48	319 NW	0.67	22.71	339 NNW	21.15	-8.27
Average		316 NW		17.92		0.71	-0.36
Maximum				24.23			
1992 12 2	1 48	325 NW	0.76	15.47	347 NNW	15.07	-3.50
1992 12 2	3 48	299 WNW	0.41	9.37	131 SE	-6.13	7.09
1992 12 2	5 48	322 NW	0.58	16.66	158 SSE	-15.42	6.32
1992 12 2	7 48	301 WNW	0.53	9.55	175 S	-9.52	0.86
1992 12 2	9 48	321 NW	0.63	12.57	329 NNW	10.78	-6.46
1992 12 2	11 48	316 NW	0.65	17.96	341 NNW	17.02	-5.72
1992 12 2	13 48	300 WNW	0.58	8.26	2 N	8.25	0.32
1992 12 2	15 48	311 NW	0.50	12.07	159 SSE	-11.27	4.32
1992 12 2	17 48	341 NNW	0.71	21.60	165 SSE	-20.87	5.60
1992 12 2	19 48	299 WNW	0.71	14.17	179 S	-14.17	0.13
1992 12 2	21 48	301 WNW	0.58	8.60	279 W	1.30	-8.50
1992 12 2	23 48	313 NW	0.61	20.83	335 NNW	18.88	-8.81
Average		312 NW		12.83		2.86	-0.16
Maximum				21.60			
1992 12 3	1 48	333 NNW	0.64	24.43	338 NNW	22.62	-9.23
1992 12 3	3 48	298 WNW	0.58	5.39	15 NNE	5.20	1.40
1992 12 3	5 48	313 NW	0.50	15.21	154 SSE	-13.63	6.77
1992 12 3	7 48	322 NW	0.50	14.71	158 SSE	-13.62	5.54
1992 12 3	9 48	291 WNW	0.45	7.33	193 SSW	-7.14	-1.69
1992 12 3	11 48	302 WNW	0.63	13.10	332 NNW	11.60	-6.09
1992 12 3	13 48	310 NW	0.58	12.25	360 N	12.25	-0.05
1992 12 3	15 48	299 WNW	0.38	4.68	94 E	-0.29	4.67
1992 12 3	17 48	333 NNW	0.60	17.57	152 SSE	-15.52	8.24
1992 12 3	19 48	338 NNW	0.66	32.46	170 S	-31.94	5.79
1992 12 3	21 48	289 WNW	0.58	16.53	140 SE	-12.61	10.70
1992 12 3	23 48	309 NW	0.47	3.16	10 N	3.10	0.57
Average		311 NW		13.20		2.47	-0.48
Maximum				32.46			
1992 12 4	1 48	304 NW	0.63	13.83	349 N	13.56	-2.70
1992 12 4	3 48	313 NW	0.58	7.74	355 N	7.70	-0.72
1992 12 4	5 48	296 WNW	0.41	8.09	142 SE	-6.37	4.98
1992 12 4	7 48	314 NW	0.33	16.57	150 SSE	-14.39	8.21
1992 12 4	9 48	294 WNW	0.62	19.00	133 SE	-13.07	13.79
1992 12 4	11 48	280 W	0.67	8.77	74 ENE	2.37	8.44
1992 12 4	13 48	297 WNW	0.45	8.21	347 NNW	7.99	-1.91
1992 12 4	15 48	290 WNW	0.39	6.31	22 NNE	5.85	2.37
1992 12 4	17 48	298 WNW	0.45	14.03	145 SE	-11.43	8.14
1992 12 4	19 48	321 NW	0.48	26.41	157 SSE	-24.31	10.31
1992 12 4	21 48	305 NW	0.77	24.70	162 SSE	-23.46	7.74
1992 12 4	23 48	307 NW	0.44	9.42	133 SE	-6.38	6.93
Average		302 WNW		11.74		-0.32	4.30
Maximum				26.41			
1992 12 5	1 48	297 WNW	0.43	15.07	336 NNW	13.76	-6.15
1992 12 5	3 48	322 NW	0.40	17.94	345 NNW	17.37	-4.50
1992 12 5	5 48	280 W	0.43	4.06	67 ENE	1.61	3.73
1992 12 5	7 48	322 NW	0.21	16.44	153 SSE	-14.71	7.34
1992 12 5	9 48	321 NW	0.65	22.31	165 SSE	-21.57	5.71
1992 12 5	11 48	310 NW	0.47	11.13	153 SSE	-9.93	5.03
1992 12 5	13 48	301 WNW	0.58	10.09	1 N	10.09	0.15
1992 12 5	15 48	295 WNW	0.65	16.03	339 NNW	14.92	-5.85
1992 12 5	17 48	315 NW	0.40	3.98	18 NNE	3.79	1.21
1992 12 5	19 48	319 NW	0.58	17.88	161 SSE	-16.86	5.94
1992 12 5	21 48	333 NNW	0.58	24.16	171 S	-23.83	3.95
1992 12 5	23 48	304 NW	0.71	13.65	162 SSE	-12.95	4.31
Average		310 NW		13.86		-0.48	1.62
Maximum				24.16			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 6	1 48	300 WNW	0.41	7.33	357 N	7.32	-0.43
1992 12 6	3 48	321 NW	0.58	23.28	332 NNW	20.48	-11.08
1992 12 6	5 48	307 NW	0.65	15.91	341 NNW	15.06	-5.13
1992 12 6	7 48	318 NW	0.38	6.04	151 SSE	-5.26	2.95
1992 12 6	9 48	331 NNW	0.71	22.95	161 SSE	-21.69	7.51
1992 12 6	11 48	331 NNW	0.31	17.25	166 SSE	-16.74	4.15
1992 12 6	13 48	317 NW	0.43	1.99	247 WSW	-0.78	-1.83
1992 12 6	15 48	174 S	0.76	19.45	329 NNW	16.75	-9.88
1992 12 6	17 48	318 NW	0.76	14.39	332 NNW	12.68	-6.80
1992 12 6	19 48	269 W	0.38	2.81	163 SSE	-2.69	0.82
1992 12 6	21 48	273 W	0.68	25.81	164 SSE	-24.78	7.23
1992 12 6	23 48	297 WNW	0.84	20.73	166 SSE	-20.12	4.99
Average		296 WNW		13.54		-0.23	-0.55
Maximum				25.81			
1992 12 7	1 48	271 W	0.58	2.09	48 NE	1.39	1.56
1992 12 7	3 48	314 NW	0.67	26.19	338 NNW	24.31	-9.76
1992 12 7	5 48	327 NNW	0.68	29.49	335 NNW	26.71	-12.50
1992 12 7	7 48	315 NW	0.55	12.72	352 N	12.60	-1.67
1992 12 7	9 48	311 NW	0.63	18.86	155 SSE	-17.11	7.92
1992 12 7	11 48	331 NNW	0.50	28.81	157 SSE	-26.43	11.46
1992 12 7	13 48	317 NW	0.53	13.17	150 SSE	-11.38	6.62
1992 12 7	15 48	324 NW	0.28	13.00	359 N	13.00	-0.25
1992 12 7	17 48	317 NW	0.65	20.33	348 NNW	19.88	-4.26
1992 12 7	19 48	323 NW	0.32	5.06	51 NE	3.15	3.96
1992 12 7	21 48	323 NW	0.58	26.33	154 SSE	-23.67	11.52
1992 12 7	23 48	331 NNW	0.73	36.15	160 SSE	-33.99	12.29
Average		317 NW		18.76		1.44	0.52
Maximum				36.15			
1992 12 8	1 48	292 WNW	0.71	25.14	166 SSE	-24.35	6.26
1992 12 8	3 48	279 W	0.50	16.25	353 N	16.12	-2.10
1992 12 8	5 48	323 NW	0.68	32.75	333 NNW	29.29	-14.64
1992 12 8	7 48	315 NW	0.60	19.71	349 N	19.32	-3.87
1992 12 8	9 48	313 NW	0.35	14.90	148 SSE	-12.58	7.98
1992 12 8	11 48	323 NW	0.65	35.15	156 SSE	-32.16	14.19
1992 12 8	13 48	327 NNW	0.71	26.76	161 SSE	-25.33	8.62
1992 12 8	15 48	304 NW	0.45	7.72	54 NE	4.52	6.25
1992 12 8	17 48	330 NNW	0.35	25.84	340 NNW	24.28	-8.83
1992 12 8	19 48	297 WNW	0.52	17.10	2 N	17.08	0.68
1992 12 8	21 48	314 NW	0.50	16.79	142 SE	-13.20	10.38
1992 12 8	23 48	325 NW	0.63	34.62	156 SSE	-31.61	14.11
Average		312 NW		24.38		-4.24	2.35
Maximum				35.15			
1992 12 9	1 48	318 NW	0.65	25.31	158 SSE	-23.52	9.35
1992 12 9	3 48	317 NW	0.77	8.22	47 NE	5.62	5.99
1992 12 9	5 48	325 NW	0.58	35.66	334 NNW	32.07	-15.58
1992 12 9	7 48	318 NW	0.71	27.35	343 NNW	26.13	-8.09
1992 12 9	9 48	301 WNW	0.55	8.88	94 E	-0.69	8.86
1992 12 9	11 48	322 NW	0.64	34.64	156 SSE	-31.72	13.92
1992 12 9	13 48	322 NW	0.58	30.80	156 SSE	-28.23	12.32
1992 12 9	15 48	313 NW	0.58	9.46	126 SE	-5.52	7.69
1992 12 9	17 48	315 NW	0.67	27.20	341 NNW	25.74	-8.77
1992 12 9	19 48	308 NW	0.71	28.36	345 NNW	27.38	-7.37
1992 12 9	21 48	314 NW	0.60	11.46	44 NE	8.17	8.03
1992 12 9	23 48	343 NNW	0.48	30.93	157 SSE	-28.55	11.89
Average		318 NW		24.41		-2.91	3.82
Maximum				35.66			
1992 12 10	1 48	331 NNW	0.58	32.76	158 SSE	-30.45	12.06
1992 12 10	3 48	306 NW	0.53	4.21	155 SSE	-3.83	1.76
1992 12 10	5 48	324 NW	0.52	31.70	335 NNW	28.84	-13.17
1992 12 10	7 48	320 NW	0.69	37.58	335 NNW	34.12	-15.76
1992 12 10	9 48	305 NW	0.60	10.45	24 NNE	9.58	4.19
1992 12 10	11 48	319 NW	0.58	32.16	154 SSE	-28.90	14.12
1992 12 10	13 48	317 NW	0.61	33.55	156 SSE	-30.57	13.82
1992 12 10	15 48	326 NW	0.55	19.86	151 SSE	-17.41	9.55
1992 12 10	17 48	308 NW	0.58	23.93	341 NNW	22.59	-7.88
1992 12 10	19 48	316 NW	0.59	29.89	339 NNW	27.82	-10.94
1992 12 10	21 48	302 WNW	0.52	15.32	2 N	15.31	0.53
1992 12 10	23 48	320 NW	0.50	23.52	158 SSE	-21.74	9.00
Average		316 NW		26.06		-3.03	2.43
Maximum				37.58			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 11	1 48	335 NNW	0.53	33.75	162 SSE	-32.15	10.27
1992 12 11	3 48	324 NW	0.55	19.81	170 S	-19.49	3.58
1992 12 11	5 48	322 NW	0.61	24.19	332 NNW	21.33	-11.41
1992 12 11	7 48	326 NW	0.60	41.82	331 NNW	36.62	-20.19
1992 12 11	9 48	308 NW	0.60	16.44	347 NNW	16.00	-3.81
1992 12 11	11 48	327 NNW	0.47	20.79	156 SSE	-18.95	8.55
1992 12 11	13 48	340 NNW	0.73	35.25	168 SSE	-34.53	7.08
1992 12 11	15 48	328 NNW	0.65	23.58	168 SSE	-23.07	4.88
1992 12 11	17 48	294 WNW	0.58	11.79	330 NNW	10.22	-5.88
1992 12 11	19 48	332 NNW	0.69	40.56	332 NNW	35.96	-18.76
1992 12 11	21 48	314 NW	0.63	23.15	339 NNW	21.67	-8.15
1992 12 11	23 48	322 NW	0.53	13.42	151 SSE	-11.73	6.52
Average		323 NW		27.44		-4.45	-0.85
Maximum				41.82			
1992 12 12	1 48	335 NNW	0.60	39.42	165 SSE	-38.02	10.41
1992 12 12	3 48	331 NNW	0.71	27.63	169 S	-27.12	5.28
1992 12 12	5 48	317 NW	0.45	7.95	299 WNW	3.86	-6.95
1992 12 12	7 48	323 NW	0.60	44.43	332 NNW	39.21	-20.89
1992 12 12	9 48	324 NW	0.65	28.56	335 NNW	25.98	-11.86
1992 12 12	11 48	299 WNW	0.65	10.48	132 SE	-7.01	7.80
1992 12 12	13 48	332 NNW	0.64	43.40	166 SSE	-42.10	10.54
1992 12 12	15 48	333 NNW	0.55	28.63	168 SSE	-28.02	5.85
1992 12 12	17 48	325 NW	0.63	9.20	177 S	-9.19	0.54
1992 12 12	19 48	326 NW	0.65	27.76	332 NNW	24.52	-13.03
1992 12 12	21 48	319 NW	0.60	34.28	334 NNW	30.75	-15.15
1992 12 12	23 48	313 NW	0.50	5.27	41 NE	3.95	3.49
Average		323 NW		28.84		-6.46	-0.81
Maximum				44.43			
1992 12 13	1 48	328 NNW	0.54	36.38	161 SSE	-34.44	11.73
1992 12 13	3 48	335 NNW	0.56	32.53	163 SSE	-31.11	9.50
1992 12 13	5 48	306 NW	0.58	5.76	142 SE	-4.57	3.51
1992 12 13	7 48	325 NW	0.74	34.39	335 NNW	31.14	-14.60
1992 12 13	9 48	318 NW	0.69	33.79	334 NNW	30.44	-14.67
1992 12 13	11 48	321 NW	0.45	8.61	354 N	8.57	-0.84
1992 12 13	13 48	338 NNW	0.52	30.02	162 SSE	-28.54	9.30
1992 12 13	15 48	339 NNW	0.50	36.46	166 SSE	-35.31	9.09
1992 12 13	17 48	318 NW	0.60	21.95	167 SSE	-21.42	4.82
1992 12 13	19 48	316 NW	0.58	18.91	340 NNW	17.81	-6.34
1992 12 13	21 48	319 NW	0.58	35.27	335 NNW	31.99	-14.84
1992 12 13	23 48	307 NW	0.58	12.67	359 N	12.67	-0.12
Average		323 NW		25.93		-4.07	0.56
Maximum				36.46			
1992 12 14	1 48	324 NW	0.50	20.68	159 SSE	-19.34	7.32
1992 12 14	3 48	331 NNW	0.55	32.20	162 SSE	-30.68	9.76
1992 12 14	5 48	319 NW	0.79	17.73	173 S	-17.59	2.25
1992 12 14	7 48	318 NW	0.63	17.74	327 NNW	14.86	-9.68
1992 12 14	9 48	323 NW	0.63	38.46	333 NNW	34.16	-17.68
1992 12 14	11 48	305 NW	0.71	15.04	353 N	14.91	-1.93
1992 12 14	13 48	326 NW	0.53	16.01	146 SE	-13.35	8.84
1992 12 14	15 48	330 NNW	0.67	34.84	163 SSE	-33.38	9.96
1992 12 14	17 48	337 NNW	0.79	22.94	167 SSE	-22.31	5.32
1992 12 14	19 48	269 W	0.82	6.94	60 ENE	3.47	6.00
1992 12 14	21 48	326 NW	0.58	25.80	341 NNW	24.34	-8.54
1992 12 14	23 48	314 NW	0.58	22.75	338 NNW	21.07	-8.58
Average		319 NW		22.55		-2.43	-0.16
Maximum				38.46			
1992 12 15	1 48	296 WNW	0.87	4.05	40 NE	3.08	2.63
1992 12 15	3 48	332 NNW	0.60	25.38	164 SSE	-24.45	6.81
1992 12 15	5 48	335 NNW	0.62	21.75	166 SSE	-21.12	5.23
1992 12 15	7 48	328 NNW	0.77	3.55	267 W	-0.21	-3.55
1992 12 15	9 48	314 NW	0.65	32.75	334 NNW	29.55	-14.11
1992 12 15	11 48	320 NW	0.60	22.19	341 NNW	20.93	-7.37
1992 12 15	13 48	322 NW	0.63	5.57	106 ESE	-1.58	5.34
1992 12 15	15 48	331 NNW	0.67	27.56	161 SSE	-26.03	9.06
1992 12 15	17 48	331 NNW	0.67	24.59	166 SSE	-23.89	5.84
1992 12 15	19 48	291 WNW	1.00	7.04	173 S	-6.99	0.81
1992 12 15	21 48	317 NW	0.71	17.99	345 NNW	17.37	-4.65
1992 12 15	23 48	323 NW	0.60	27.09	337 NNW	25.00	-10.43
Average		320 NW		16.46		0.89	-0.72
Maximum				32.75			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 16	1 48	298 WNW	0.71	10.61	9 N	10.47	1.71
1992 12 16	3 48	329 NNW	0.50	10.01	157 SSE	-9.23	3.87
1992 12 16	5 48	333 NNW	0.58	16.18	156 SSE	-14.75	6.64
1992 12 16	7 48	323 NW	0.50	10.76	182 S	-10.75	-0.44
1992 12 16	9 48	317 NW	0.45	14.30	337 NNW	13.15	-5.64
1992 12 16	11 48	322 NW	0.53	20.58	336 NNW	18.73	-8.53
1992 12 16	13 48	280 W	0.87	6.88	10 N	6.77	1.24
1992 12 16	15 48	326 W	0.58	16.47	158 SSE	-15.25	6.22
1992 12 16	17 48	339 NNW	0.71	23.72	166 SSE	-23.03	5.69
1992 12 16	19 48	325 NW	0.71	14.16	175 S	-14.12	1.16
1992 12 16	21 48	293 WNW	0.82	6.13	337 NNW	5.66	-2.35
1992 12 16	23 48	310 NW	0.76	20.35	333 NNW	18.17	-9.15
Average		316 NW		12.76		2.06	-0.16
Maximum				23.72			
1992 12 17	1 48	308 NW	0.71	15.67	340 NNW	14.72	-5.39
1992 12 17	3 48	303 WNW	0.58	3.72	129 SE	-2.35	2.89
1992 12 17	5 48	329 NNW	0.63	16.96	160 SSE	-15.93	5.82
1992 12 17	7 48	320 NW	0.63	12.93	167 SSE	-12.57	3.01
1992 12 17	9 48	318 NW	0.45	3.79	302 WNW	1.98	-3.22
1992 12 17	11 48	315 NW	0.50	16.83	336 NNW	15.33	-6.94
1992 12 17	13 48	307 NW	0.82	11.91	344 NNW	11.45	-3.25
1992 12 17	15 48	307 NW	0.50	3.04	129 SE	-1.93	2.35
1992 12 17	17 48	329 NNW	0.50	17.99	163 SSE	-17.24	5.14
1992 12 17	19 48	332 NNW	0.63	15.19	169 S	-14.89	2.97
1992 12 17	21 48	299 WNW	1.00	3.18	241 WSW	-1.53	-2.79
1992 12 17	23 48	343 NNW	0.77	17.96	337 NNW	16.48	-7.14
Average		318 NW		11.69		1.80	-1.01
Maximum				17.99			
1992 12 18	1 48	330 NNW	0.60	21.25	337 NNW	19.51	-8.42
1992 12 18	3 48	297 WNW	0.82	11.06	356 N	11.02	-0.83
1992 12 18	5 48	318 NW	0.00	6.73	157 SSE	-6.17	2.68
1992 12 18	7 48	336 NNW	0.58	12.09	159 SSE	-11.31	4.28
1992 12 18	9 48	327 NNW	0.71	7.09	177 S	-7.08	0.32
1992 12 18	11 48	320 NW	0.71	10.23	321 NW	7.96	-6.42
1992 12 18	13 48	315 NW	0.58	14.17	335 NNW	12.89	-5.89
1992 12 18	15 48	317 NW	0.58	6.65	337 NNW	6.11	-2.61
1992 12 18	17 48	322 NW	0.58	9.46	162 SSE	-9.02	2.86
1992 12 18	19 48	163 SSE	0.71	18.62	172 S	-18.45	2.48
1992 12 18	21 48	324 NW	0.71	10.73	181 S	-10.73	-0.26
1992 12 18	23 48	293 WNW	1.00	6.47	332 NNW	5.71	-3.05
Average		305 NW		11.80		3.83	-2.04
Maximum				21.25			
1992 12 19	1 48	326 NW	0.63	17.66	336 NNW	16.15	-7.14
1992 12 19	3 48	320 NW	0.58	14.47	341 NNW	13.71	-4.62
1992 12 19	5 48	315 NW	0.71	5.16	23 NNE	4.76	2.00
1992 12 19	7 48	314 NW	0.58	8.74	163 SSE	-8.35	2.59
1992 12 19	9 48	323 NW	0.58	10.66	159 SSE	-9.98	3.76
1992 12 19	11 48	287 WNW	0.50	2.09	139 SE	-1.57	1.37
1992 12 19	13 48	318 NW	0.58	11.52	341 NNW	10.91	-3.68
1992 12 19	15 48	313 NW	0.58	12.23	339 NNW	11.41	-4.40
1992 12 19	17 48	290 WNW	0.58	2.90	9 N	2.86	0.45
1992 12 19	19 48	334 NNW	0.50	13.63	165 SSE	-13.17	3.51
1992 12 19	21 48	335 NNW	0.63	15.25	169 S	-14.97	2.92
1992 12 19	23 48	323 NW	0.82	6.90	173 S	-6.86	0.80
Average		317 NW		10.04		3.66	-0.82
Maximum				17.66			
1992 12 20	1 48	320 NW	0.71	11.23	351 N	11.09	-1.78
1992 12 20	3 48	317 NW	0.50	21.00	336 NNW	19.16	-8.60
1992 12 20	5 48	326 NW	0.45	10.77	351 N	10.63	-1.75
1992 12 20	7 48	320 NW	0.50	0.58	128 SE	-0.36	0.46
1992 12 20	9 48	330 NNW	0.63	14.32	161 SSE	-13.57	4.57
1992 12 20	11 48	339 NNW	0.45	12.02	170 S	-11.83	2.12
1992 12 20	13 48	302 WNW	0.58	6.19	253 WSW	-1.85	-5.91
1992 12 20	15 48	312 NW	0.58	13.13	320 NW	9.99	-8.52
1992 12 20	17 48	312 NW	0.58	6.25	328 NNW	5.32	-3.28
1992 12 20	19 48	320 NW	0.71	7.97	160 SSE	-7.50	2.69
1992 12 20	21 48	331 NNW	0.63	17.41	161 SSE	-16.45	5.70
1992 12 20	23 48	332 NNW	0.63	13.89	164 SSE	-13.35	3.84
Average		322 NW		10.87		1.90	-1.56
Maximum				21.00			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concentration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 21	1 48	287 WNW	0.58	0.73	31 NNE	0.63	0.37
1992 12 21	3 48	318 NW	0.71	17.42	335 NNW	15.81	-7.30
1992 12 21	5 48	315 NW	0.71	15.85	339 NNW	14.77	-5.76
1992 12 21	7 48	297 WNW	0.58	5.88	18 NNE	5.60	1.78
1992 12 21	9 48	324 NW	0.50	11.85	163 SSE	-11.35	3.40
1992 12 21	11 48	328 NNW	0.53	15.59	168 SSE	-15.26	3.16
1992 12 21	13 48	324 NW	0.58	7.29	159 SSE	-6.80	2.63
1992 12 21	15 48	324 NW	0.00	10.63	333 NNW	9.48	-4.81
1992 12 21	17 48	313 NW	0.45	16.85	334 NNW	15.10	-7.48
1992 12 21	19 48	306 NW	0.71	3.79	12 NNE	3.71	0.78
1992 12 21	21 48	329 NNW	0.50	15.37	160 SSE	-14.47	5.19
1992 12 21	23 48	335 NNW	0.58	20.86	165 SSE	-20.14	5.40
Average		317 NW		10.66		0.49	-0.25
Maximum				20.86			
1992 12 22	1 48	326 NW	0.71	11.64	163 SSE	-11.12	3.43
1992 12 22	3 48	330 NNW	0.00	11.02	351 N	10.87	-1.81
1992 12 22	5 48	322 NW	0.58	20.49	337 NNW	18.80	-8.15
1992 12 22	7 48	319 NW	0.45	11.58	350 N	11.41	-1.96
1992 12 22	9 48	317 NW	0.00	7.08	142 SE	-5.57	4.37
1992 12 22	11 48	336 NNW	0.47	21.47	159 SSE	-20.10	7.55
1992 12 22	13 48	319 NW	0.65	18.77	163 SSE	-17.96	5.44
1992 12 22	15 48	166 SSE	0.43	3.94	346 NNW	3.82	-0.94
1992 12 22	17 48	310 NW	0.58	20.39	339 NNW	18.98	-7.44
1992 12 22	19 48	315 NW	0.63	12.17	353 N	12.08	-1.51
1992 12 22	21 48	322 NW	0.50	10.86	134 SE	-7.60	7.76
1992 12 22	23 48	164 SSE	0.47	25.19	159 SSE	-23.52	9.02
Average		296 WNW		14.58		-1.95	1.27
Maximum				25.19			
1992 12 23	1 48	311 NW	0.58	21.65	165 SSE	-20.89	5.68
1992 12 23	3 48	307 NW	0.63	7.28	207 SSW	-6.51	-3.26
1992 12 23	5 48	324 NW	0.50	22.37	343 NNW	21.34	-6.70
1992 12 23	7 48	317 NW	0.38	21.42	337 NNW	19.70	-8.42
1992 12 23	9 48	302 WNW	0.47	5.45	90 E	-0.05	5.45
1992 12 23	11 48	317 NW	0.53	30.40	159 SSE	-28.46	10.70
1992 12 23	13 48	316 NW	0.58	26.02	165 SSE	-25.12	6.79
1992 12 23	15 48	316 NW	0.35	10.92	154 SSE	-9.80	4.82
1992 12 23	17 48	305 NW	0.41	14.08	352 N	13.94	-1.99
1992 12 23	19 48	311 NW	0.39	19.83	345 NNW	19.18	-5.04
1992 12 23	21 48	303 WNW	0.53	7.17	30 NNE	6.19	3.62
1992 12 23	23 48	340 NNW	0.52	24.98	162 SSE	-23.70	7.90
Average		314 NW		19.23		-5.71	1.46
Maximum				30.40			
1992 12 24	1 48	341 NNW	0.58	28.87	163 SSE	-27.64	8.34
1992 12 24	3 48	325 NW	0.53	10.00	170 S	-9.84	1.74
1992 12 24	5 48	318 NW	0.47	23.17	343 NNW	22.13	-6.89
1992 12 24	7 48	318 NW	0.41	27.60	334 NNW	24.74	-12.22
1992 12 24	9 48	309 NW	0.41	10.02	1 N	10.02	0.10
1992 12 24	11 48	322 NW	0.41	19.95	157 SSE	-18.31	7.92
1992 12 24	13 48	331 NNW	0.60	27.79	157 SSE	-25.57	10.88
1992 12 24	15 48	328 NNW	0.63	14.86	149 SSE	-12.74	7.66
1992 12 24	17 48	320 NW	0.41	13.50	343 NNW	12.90	-4.00
1992 12 24	19 48	321 NW	0.41	25.36	339 NNW	23.75	-8.90
1992 12 24	21 48	316 NW	0.41	13.92	360 N	13.92	-0.08
1992 12 24	23 48	318 NW	0.41	14.58	151 SSE	-12.77	7.04
Average		322 NW		21.06		-3.50	1.41
Maximum				28.87			
1992 12 25	1 48	321 NW	0.53	19.02	162 SSE	-18.07	5.92
1992 12 25	3 48	304 NW	0.43	11.81	164 SSE	-11.33	3.31
1992 12 25	5 48	315 NW	0.50	16.48	344 NNW	15.81	-4.64
1992 12 25	7 48	315 NW	0.55	33.19	335 NNW	30.18	-13.81
1992 12 25	9 48	314 NW	0.41	14.36	351 N	14.17	-2.27
1992 12 25	11 48	318 NW	0.41	16.73	143 SE	-13.30	10.15
1992 12 25	13 48	314 NW	0.56	32.31	159 SSE	-30.21	11.44
1992 12 25	15 48	335 NNW	0.47	19.92	160 SSE	-18.73	6.78
1992 12 25	17 48	331 NNW	0.53	9.55	37 NE	7.65	5.73
1992 12 25	19 48	321 NW	0.63	22.91	340 NNW	21.55	-7.76
1992 12 25	21 48	320 NW	0.38	14.69	354 N	14.61	-1.48
1992 12 25	23 48	309 NW	0.45	12.57	127 SE	-7.55	10.05
Average		318 NW		20.56		-1.82	1.44
Maximum				33.19			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 26	1 48	334 NNW	0.55	31.97	157 SSE	-29.38	12.61
1992 12 26	3 48	333 NNW	0.55	27.03	159 SSE	-25.20	9.77
1992 12 26	5 48	301 NNW	0.50	7.24	33 NNE	6.04	3.99
1992 12 26	7 48	325 NW	0.53	26.63	340 NNW	25.05	-9.02
1992 12 26	9 48	324 NW	0.32	16.30	350 N	16.07	-2.70
1992 12 26	11 48	316 NW	0.53	9.62	118 ESE	-4.52	8.50
1992 12 26	13 48	324 NW	0.59	31.47	156 SSE	-28.82	12.62
1992 12 26	15 48	326 NW	0.52	25.30	159 SSE	-23.58	9.19
1992 12 26	17 48	300 NNW	0.32	5.48	106 ESE	-1.55	5.26
1992 12 26	19 48	304 NW	0.43	21.09	346 NNW	20.45	-5.16
1992 12 26	21 48	303 NNW	0.39	17.32	349 N	17.03	-3.17
1992 12 26	23 48	294 NNW	0.71	8.22	66 ENE	3.33	7.52
Average		315 NW		21.47		-5.82	5.11
Maximum				31.97			
1992 12 27	1 48	311 NW	0.47	24.64	155 SSE	-22.28	10.52
1992 12 27	3 48	316 NW	0.47	24.75	155 SSE	-22.51	10.28
1992 12 27	5 48	301 NNW	0.55	2.67	157 SSE	-2.46	1.04
1992 12 27	7 48	320 NW	0.43	24.87	341 NNW	23.52	-8.07
1992 12 27	9 48	316 NW	0.43	21.75	343 NNW	20.77	-6.44
1992 12 27	11 48	297 NNW	0.53	7.55	67 ENE	2.98	6.94
1992 12 27	13 48	323 NW	0.53	17.30	156 SSE	-15.77	7.11
1992 12 27	15 48	323 NW	0.65	17.57	161 SSE	-16.64	5.64
1992 12 27	17 48	323 NW	0.63	6.91	151 SSE	-6.02	3.39
1992 12 27	19 48	322 NW	0.63	13.03	344 NNW	12.51	-3.66
1992 12 27	21 48	326 NW	0.58	18.94	343 NNW	18.13	-5.51
1992 12 27	23 48	305 NW	0.45	8.53	18 NNE	8.13	2.58
Average		315 NW		17.65		-2.25	3.05
Maximum				24.87			
1992 12 28	1 48	319 NW	0.50	10.36	153 SSE	-9.23	4.72
1992 12 28	3 48	335 NNW	0.58	19.32	158 SSE	-17.96	7.12
1992 12 28	5 48	312 NW	0.45	7.81	150 SSE	-6.74	3.95
1992 12 28	7 48	310 NW	0.50	12.94	354 N	12.86	-1.43
1992 12 28	9 48	303 NNW	0.65	18.02	349 N	17.66	-3.56
1992 12 28	11 48	293 NNW	0.71	9.31	34 NE	7.76	5.14
1992 12 28	13 48	324 NW	0.58	16.08	144 SE	-13.01	9.46
1992 12 28	15 48	329 NNW	0.52	21.01	154 SSE	-18.91	9.16
1992 12 28	17 48	329 NNW	0.63	14.26	150 SSE	-12.30	7.21
1992 12 28	19 48	320 NW	0.00	11.05	2 N	11.04	0.45
1992 12 28	21 48	319 NW	0.71	17.68	355 N	17.61	-1.60
1992 12 28	23 48	309 NW	0.63	13.03	28 NNE	11.53	6.07
Average		317 NW		13.41		-1.24	3.63
Maximum				21.01			
1992 12 29	1 48	325 NW	0.58	9.82	128 SE	-6.11	7.69
1992 12 29	3 48	326 NW	0.71	18.96	149 SSE	-16.30	9.68
1992 12 29	5 48	328 NNW	0.50	11.79	140 SE	-9.03	7.58
1992 12 29	7 48	307 NW	0.71	11.48	8 N	11.37	1.61
1992 12 29	9 48	330 NNW	0.63	20.10	350 N	19.82	-3.36
1992 12 29	11 48	320 NW	0.50	11.38	15 NNE	10.97	3.00
1992 12 29	13 48	339 NNW	0.45	11.37	134 SE	-7.88	8.20
1992 12 29	15 48	330 NNW	0.65	19.78	150 SSE	-17.16	9.84
1992 12 29	17 48	335 NNW	0.63	14.53	148 SSE	-12.35	7.66
1992 12 29	19 48	299 NNW	0.58	7.54	54 NE	4.46	6.09
1992 12 29	21 48	320 NW	0.82	17.37	3 N	17.35	0.86
1992 12 29	23 48	328 NNW	0.58	13.12	8 N	12.98	1.93
Average		324 NW		13.56		0.41	4.91
Maximum				20.10			
1992 12 30	1 48	317 NW	0.58	8.32	99 E	-1.30	8.22
1992 12 30	3 48	333 NNW	0.45	15.78	147 SSE	-13.22	8.61
1992 12 30	5 48	332 NNW	0.33	11.90	134 SE	-8.22	8.61
1992 12 30	7 48	298 NNW	0.71	4.87	65 ENE	2.04	4.42
1992 12 30	9 48	333 NNW	0.58	13.62	4 N	13.58	1.05
1992 12 30	11 48	332 NNW	0.71	12.24	24 NNE	11.18	4.98
1992 12 30	13 48	321 NW	0.50	8.78	89 E	0.21	8.78
1992 12 30	15 48	327 NNW	0.71	14.10	134 SE	-9.84	10.10
1992 12 30	17 48	325 NW	0.63	14.29	134 SE	-9.98	10.23
1992 12 30	19 48	312 NW	0.71	8.30	89 E	0.15	8.30
1992 12 30	21 48	320 NW	0.71	15.08	11 N	14.78	2.97
1992 12 30	23 48	325 NW	0.58	12.80	16 NNE	12.27	3.62
Average		323 NW		10.79		0.61	6.38
Maximum				15.78			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1992 12 31	1 48	324 NW	0.00	9.70	55 NE	5.52	7.97
1992 12 31	3 48	335 NNW	0.71	10.14	121 ESE	-5.17	8.72
1992 12 31	5 48	328 NNW	0.71	10.97	120 ESE	-5.57	9.45
1992 12 31	7 48	318 NW	0.00	7.65	72 ENE	2.39	7.26
1992 12 31	9 48	331 NNW	0.58	12.87	13 NNE	12.56	2.80
1992 12 31	11 48	320 NW	0.82	14.01	12 NNE	13.68	3.03
1992 12 31	13 48	304 NW	0.71	9.82	69 ENE	3.53	9.16
1992 12 31	15 48	326 NW	0.58	11.73	128 SE	-7.27	9.20
1992 12 31	17 48	327 NNW	0.58	10.88	135 SE	-7.64	7.75
1992 12 31	19 48	332 NNW	0.00	5.45	99 E	-0.86	5.39
1992 12 31	21 48	250 WSW	1.00	9.80	31 NNE	8.42	5.02
1992 12 31	23 48	331 NNW	0.00	12.33	18 NNE	11.72	3.85
Average		319 NW		10.74		3.85	6.91
Maximum				14.01			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: December 1992

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 1	1 48	237 WSW	0.71	10.35	43 NE	7.61	7.02
1993 1 1	3 48	326 NW	0.00	7.96	103 ESE	-1.75	7.77
1993 1 1	5 48	310 NW	1.00	9.14	121 ESE	-4.71	7.83
1993 1 1	7 48	249 WSW	0.63	7.72	83 E	0.96	7.66
1993 1 1	9 48	326 NW	1.00	10.75	32 NNE	9.12	5.69
1993 1 1	11 48	325 NW	0.00	10.60	16 NNE	10.21	2.85
1993 1 1	13 48	305 NW	0.71	8.02	51 NE	5.08	6.20
1993 1 1	15 48	244 WSW	0.71	6.97	114 ESE	-2.88	6.34
1993 1 1	17 48	334 NNW	0.58	9.82	133 SE	-6.64	7.23
1993 1 1	19 48	340 NNW	0.58	6.79	118 ESE	-3.24	5.97
1993 1 1	21 48	234 SW	0.65	4.89	68 ENE	1.82	4.54
1993 1 1	23 48	322 NW	0.58	10.87	12 NNE	10.64	2.21
Average		296 WNW		9.22		3.79	6.43
Maximum				10.87			
1993 1 2	1 48	315 NW	0.71	9.19	28 NNE	8.11	4.33
1993 1 2	3 48	300 WNW	0.50	6.49	76 ENE	1.52	6.30
1993 1 2	5 48	318 NW	0.50	7.65	115 ESE	-3.21	6.95
1993 1 2	7 48	328 NNW	0.52	7.17	105 ESE	-1.88	6.92
1993 1 2	9 48	292 WNW	0.58	6.64	55 NE	3.82	5.43
1993 1 2	11 48	320 NW	0.50	11.83	24 NNE	10.78	4.86
1993 1 2	13 48	309 NW	0.71	9.60	26 NNE	8.59	4.28
1993 1 2	15 48	301 WNW	0.41	5.85	79 E	1.10	5.75
1993 1 2	17 48	328 NNW	0.00	8.04	135 SE	-5.71	5.67
1993 1 2	19 48	204 SSW	1.00	6.04	142 SE	-4.74	3.74
1993 1 2	21 48	284 WNW	0.58	2.89	86 E	0.22	2.88
1993 1 2	23 48	241 WSW	0.50	7.16	23 NNE	6.61	2.76
Average		295 WNW		8.37		3.96	5.58
Maximum				11.83			
1993 1 3	1 48	318 NW	0.58	8.85	13 NNE	8.61	2.04
1993 1 3	3 48	311 NW	0.58	6.25	44 NE	4.51	4.33
1993 1 3	5 48	301 WNW	0.58	6.07	95 E	-0.58	6.04
1993 1 3	7 48	264 W	0.82	7.17	117 ESE	-3.23	6.41
1993 1 3	9 48	248 WSW	0.53	5.52	108 ESE	-1.72	5.25
1993 1 3	11 48	276 W	0.71	5.64	43 NE	4.09	3.88
1993 1 3	13 48	265 W	0.82	5.68	24 NNE	5.18	2.33
1993 1 3	15 48	264 W	0.58	4.23	45 NE	2.98	3.01
1993 1 3	17 48	304 NW	0.82	5.18	124 SE	-2.89	4.30
1993 1 3	19 48	251 WSW	0.82	8.42	152 SSE	-7.44	3.96
1993 1 3	21 48	331 NNW	0.71	5.86	144 SE	-4.76	3.41
1993 1 3	23 48	301 WNW	0.71	2.97	103 ESE	-0.69	2.89
Average		286 WNW		6.45		2.41	4.33
Maximum				8.85			
1993 1 4	1 48	314 NW	0.71	5.91	12 NNE	5.78	1.26
1993 1 4	3 48	294 WNW	0.71	5.90	11 N	5.78	1.17
1993 1 4	5 48	296 WNW	0.71	5.12	55 NE	2.97	4.17
1993 1 4	7 48	247 WSW	0.58	6.11	113 ESE	-2.40	5.62
1993 1 4	9 48	312 NW	0.71	6.77	129 SE	-4.27	5.25
1993 1 4	11 48	312 NW	0.71	4.71	121 ESE	-2.40	4.05
1993 1 4	13 48	311 NW	0.71	4.29	35 NE	3.50	2.47
1993 1 4	15 48	318 NW	0.71	6.28	6 N	6.25	0.63
1993 1 4	17 48	301 WNW	0.71	3.36	24 NNE	3.06	1.39
1993 1 4	19 48	309 NW	0.71	5.31	128 SE	-3.27	4.19
1993 1 4	21 48	327 NNW	0.58	8.90	149 SSE	-7.65	4.55
1993 1 4	23 48	249 WSW	0.58	5.20	136 SE	-3.74	3.62
Average		299 WNW		5.54		1.28	3.43
Maximum				8.90			
1993 1 5	1 48	241 WSW	0.27	4.94	20 NNE	4.64	1.68
1993 1 5	3 48	322 NW	0.71	8.92	355 N	8.88	-0.83
1993 1 5	5 48	318 NW	0.71	8.46	9 N	8.36	1.28
1993 1 5	7 48	298 WNW	0.71	3.94	84 E	0.42	3.92
1993 1 5	9 48	317 NW	0.71	8.13	137 SE	-5.98	5.51
Average							
Maximum		299 WNW		6.88		3.26	2.31
				8.92			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)

1993	1	5	13 48	254 WSW	0.61	7.07	55 NE	4.05	5.80
1993	1	5	15 48	322 NW	0.58	21.10	349 N	20.70	-4.10
1993	1	5	17 48	313 NW	0.82	23.01	350 N	22.64	-4.12
1993	1	5	19 48	321 NW	0.71	7.26	54 NE	4.24	5.89
1993	1	5	21 48	333 NNW	0.50	22.45	144 SE	-18.19	13.16
1993	1	5	23 48	338 NNW	0.58	22.07	147 SSE	-18.51	12.02

Average				314 NW		17.16		2.49	4.78
Maximum						23.01			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 6	1 48	318 NW	0.58	6.21	110 ESE	-2.10	5.85
1993 1 6	3 48	327 NNW	0.58	26.46	347 NNW	25.79	-5.89
1993 1 6	5 48	324 NW	0.55	30.66	344 NNW	29.51	-8.33
1993 1 6	7 48	321 NW	0.52	16.40	20 NNE	15.43	5.56
1993 1 6	9 48	321 NW	0.45	19.34	137 SE	-14.13	13.21
1993 1 6	11 48	333 NNW	0.55	27.18	149 SSE	-23.21	14.16
1993 1 6	13 48	328 NNW	0.53	18.53	141 SE	-14.44	11.61
1993 1 6	15 48	311 NW	0.50	11.79	9 N	11.65	1.83
1993 1 6	17 48	325 NW	0.60	27.82	341 NNW	26.38	-8.84
1993 1 6	19 48	320 NW	0.53	16.54	352 N	16.37	-2.38
1993 1 6	21 48	326 NW	0.45	12.93	146 SE	-10.68	7.29
1993 1 6	23 48	340 NNW	0.63	26.35	158 SSE	-24.40	9.96
Average		325 NW		20.02		3.01	3.67
Maximum				30.66			
1993 1 7	1 48	339 NNW	0.71	17.63	151 SSE	-15.43	8.53
1993 1 7	3 48	332 NNW	0.71	14.83	349 N	14.54	-2.93
1993 1 7	5 48	332 NNW	0.66	35.75	342 NNW	34.06	-10.87
1993 1 7	7 48	240 WSW	0.62	26.15	356 N	26.07	-1.99
1993 1 7	9 48	264 W	0.79	13.23	92 E	-0.37	13.22
1993 1 7	11 48	167 SSE	0.61	34.28	156 SSE	-31.31	13.97
1993 1 7	13 48	331 NNW	0.77	29.01	155 SSE	-26.25	12.33
1993 1 7	15 48	285 WNW	0.77	8.90	86 E	0.64	8.88
1993 1 7	17 48	332 NNW	0.75	32.00	344 NNW	30.76	-8.82
1993 1 7	19 48	332 NNW	0.65	31.24	349 N	30.69	-5.87
1993 1 7	21 48	328 NNW	0.50	12.57	53 NE	7.52	10.07
1993 1 7	23 48	334 NNW	0.65	32.34	152 SSE	-28.52	15.24
Average		301 WNW		23.99		3.53	4.31
Maximum				35.75			
1993 1 8	1 48	342 NNW	0.71	30.88	154 SSE	-27.87	13.30
1993 1 8	3 48	290 WNW	0.71	7.52	43 NE	5.46	5.17
1993 1 8	5 48	339 NNW	0.80	40.65	341 NNW	38.54	-12.93
1993 1 8	7 48	334 NNW	0.68	37.33	344 NNW	35.88	-10.32
1993 1 8	9 48	335 NNW	0.50	12.52	42 NE	9.27	8.41
1993 1 8	11 48	329 NNW	0.53	34.02	147 SSE	-28.39	18.75
1993 1 8	13 48	167 SSE	0.65	33.12	152 SSE	-29.33	15.39
1993 1 8	15 48	266 W	0.75	19.71	123 ESE	-10.62	16.60
1993 1 8	17 48	332 NNW	0.71	30.23	352 N	29.96	-4.00
1993 1 8	19 48	341 NNW	0.87	38.51	350 N	37.95	-6.55
1993 1 8	21 48	177 S	0.51	23.13	13 NNE	22.52	5.28
1993 1 8	23 48	321 NW	0.65	21.61	142 SE	-17.15	13.16
Average		298 WNW		27.44		5.52	5.19
Maximum				40.65			
1993 1 9	1 48	165 SSE	0.63	36.05	158 SSE	-33.33	13.73
1993 1 9	3 48	163 SSE	0.47	14.84	150 SSE	-12.85	7.41
1993 1 9	5 48	328 NNW	0.63	34.98	343 NNW	33.53	-9.96
1993 1 9	7 48	326 NW	0.60	46.05	338 NNW	42.82	-16.94
1993 1 9	9 48	319 NW	0.47	20.49	8 N	20.30	2.79
1993 1 9	11 48	330 NNW	0.58	25.97	133 SE	-17.65	19.05
1993 1 9	13 48	171 S	0.73	40.85	157 SSE	-37.74	15.65
1993 1 9	15 48	166 SSE	0.52	32.69	149 SSE	-27.97	16.93
1993 1 9	17 48	317 NW	0.45	21.33	4 N	21.26	1.67
1993 1 9	19 48	165 SSE	0.74	40.48	345 NNW	39.06	-10.64
1993 1 9	21 48	324 NW	0.85	30.30	353 N	30.07	-3.68
1993 1 9	23 48	340 NNW	0.58	19.48	124 SE	-10.86	16.17
Average		260 W		30.29		3.89	4.35
Maximum				46.05			
1993 1 10	1 48	339 NNW	0.67	43.69	154 SSE	-39.20	19.28
1993 1 10	3 48	339 NNW	0.65	29.37	152 SSE	-25.96	13.73
1993 1 10	5 48	321 NW	0.41	16.89	10 N	16.61	3.06
1993 1 10	7 48	326 NW	0.61	51.61	338 NNW	47.97	-19.04
1993 1 10	9 48	320 NW	0.56	32.56	349 N	31.95	-6.27
1993 1 10	11 48	317 NW	0.63	16.94	106 ESE	-4.79	16.25
1993 1 10	13 48	337 NNW	0.61	43.43	156 SSE	-39.64	17.74
1993 1 10	15 48	333 NNW	0.63	31.81	153 SSE	-28.43	14.27
1993 1 10	17 48	321 NW	0.71	10.43	74 ENE	2.90	10.01
1993 1 10	19 48	335 NNW	0.71	40.31	343 NNW	38.52	-11.87
1993 1 10	21 48	332 NNW	0.61	33.92	346 NNW	32.91	-8.22
1993 1 10	23 48	339 NNW	0.61	15.84	39 NE	12.32	9.96
Average		330 NNW		30.57		3.76	4.91
Maximum				51.61			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 11	1 48	335 NNW	0.59	34.46	156 SSE	-31.51	13.94
1993 1 11	3 48	337 NNW	0.65	31.45	158 SSE	-29.23	11.60
1993 1 11	5 48	332 NNW	0.32	1.16	164 SSE	-1.12	0.32
1993 1 11	7 48	332 NNW	0.63	47.85	339 NNW	44.77	-16.89
1993 1 11	9 48	329 NNW	0.56	40.86	340 NNW	38.29	-14.25
1993 1 11	11 48	318 NW	0.63	12.77	65 ENE	5.44	11.55
1993 1 11	13 48	339 NNW	0.61	39.16	155 SSE	-35.43	16.70
1993 1 11	15 48	333 NNW	0.51	36.70	159 SSE	-34.25	13.19
1993 1 11	17 48	331 NNW	0.71	16.05	140 SE	-12.22	10.41
1993 1 11	19 48	281 W	0.87	31.74	344 NNW	30.55	-8.61
1993 1 11	21 48	336 NNW	0.54	45.75	341 NNW	43.30	-14.78
1993 1 11	23 48	320 NW	0.75	20.86	4 N	20.80	1.60
Average		327 NNW		29.90		3.28	2.07
Maximum				47.85			
1993 1 12	1 48	326 NW	0.53	25.15	154 SSE	-22.69	10.84
1993 1 12	3 48	340 NNW	0.67	34.82	159 SSE	-32.45	12.61
1993 1 12	5 48	165 SSE	0.79	15.79	156 SSE	-14.47	6.32
1993 1 12	7 48	310 NW	0.79	33.51	340 NNW	31.51	-11.40
1993 1 12	9 48	335 NNW	0.71	45.68	338 NNW	42.47	-16.84
1993 1 12	11 48	326 NW	0.39	19.31	0 N	19.31	0.16
1993 1 12	13 48	327 NNW	0.47	24.50	146 SE	-20.37	13.62
1993 1 12	15 48	336 NNW	0.58	37.53	159 SSE	-35.07	13.35
1993 1 12	17 48	318 NW	0.76	25.28	156 SSE	-23.14	10.20
1993 1 12	19 48	320 NW	0.45	17.51	354 N	17.41	-1.88
1993 1 12	21 48	319 NW	0.62	43.16	341 NNW	40.77	-14.16
1993 1 12	23 48	326 NW	0.75	29.53	349 N	28.98	-5.66
Average		312 NW		29.31		2.69	1.43
Maximum				45.68			
1993 1 13	1 48	330 NNW	0.45	8.63	109 ESE	-2.86	8.15
1993 1 13	3 48	342 NNW	0.66	31.15	160 SSE	-29.34	10.46
1993 1 13	5 48	339 NNW	0.82	21.05	161 SSE	-19.90	6.87
1993 1 13	7 48	321 NW	0.91	10.41	2 N	10.40	0.38
1993 1 13	9 48	336 NNW	0.84	40.06	342 NNW	38.13	-12.30
1993 1 13	11 48	320 NW	0.71	28.58	346 NNW	27.76	-6.77
1993 1 13	13 48	173 S	0.61	10.43	110 ESE	-3.49	9.83
1993 1 13	15 48	339 NNW	0.65	35.73	161 SSE	-33.76	11.70
1993 1 13	17 48	321 NW	0.60	24.90	157 SSE	-22.89	9.81
1993 1 13	19 48	284 NNW	0.77	5.01	132 SE	-3.37	3.71
1993 1 13	21 48	313 NW	0.85	30.72	337 NNW	28.35	-11.84
1993 1 13	23 48	324 NW	0.55	31.03	346 NNW	30.13	-7.41
Average		312 NW		23.14		1.60	1.88
Maximum				40.06			
1993 1 14	1 48	313 NW	0.58	14.59	20 NNE	13.71	5.01
1993 1 14	3 48	321 NW	0.71	19.86	150 SSE	-17.11	10.08
1993 1 14	5 48	322 NW	0.67	22.32	158 SSE	-20.67	8.42
1993 1 14	7 48	330 NNW	0.63	5.72	157 SSE	-5.26	2.25
1993 1 14	9 48	326 NW	0.50	29.80	341 NNW	28.13	-9.83
1993 1 14	11 48	331 NNW	0.71	30.13	347 NNW	29.32	-6.97
1993 1 14	13 48	323 NW	0.50	9.46	43 NE	6.91	6.46
1993 1 14	15 48	329 NNW	0.55	22.46	155 SSE	-20.41	9.39
1993 1 14	17 48	322 NW	0.71	25.31	162 SSE	-24.01	8.00
1993 1 14	19 48	327 NNW	0.82	14.30	153 SSE	-12.71	6.56
1993 1 14	21 48	329 NNW	0.37	18.94	350 N	18.64	-3.38
1993 1 14	23 48	334 NNW	0.68	34.53	343 NNW	33.09	-9.87
Average		326 NW		20.62		2.47	2.18
Maximum				34.53			
1993 1 15	1 48	323 NW	0.76	21.67	352 N	21.46	-3.03
1993 1 15	3 48	329 NNW	0.41	6.08	129 SE	-3.86	4.69
1993 1 15	5 48	330 NNW	0.55	19.55	154 SSE	-17.57	8.56
1993 1 15	7 48	323 NW	0.65	12.20	161 SSE	-11.55	3.94
1993 1 15	9 48	309 NW	0.63	12.82	355 N	12.77	-1.08
1993 1 15	11 48	312 NW	0.65	25.58	346 NNW	24.81	-6.25
1993 1 15	13 48	313 NW	0.38	12.24	13 NNE	11.94	2.70
1993 1 15	15 48	317 NW	0.50	12.30	142 SE	-9.63	7.66
1993 1 15	17 48	314 NW	0.55	21.15	157 SSE	-19.40	8.42
1993 1 15	19 48	312 NW	0.77	12.81	163 SSE	-12.26	3.71
1993 1 15	21 48	300 NNW	0.50	5.26	357 N	5.25	-0.30
1993 1 15	23 48	317 NW	0.53	21.20	351 N	20.94	-3.32
Average		317 NW		15.24		1.91	2.14
Maximum				25.58			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: January 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 16	1 48	314 NW	0.61	21.67	354 N	21.57	-2.11
1993 1 16	3 48	312 NW	0.53	6.16	38 NE	4.83	3.83
1993 1 16	5 48	316 NW	0.35	16.99	148 SSE	-14.42	8.97
1993 1 16	7 48	314 NW	0.35	16.25	143 SE	-13.04	9.70
1993 1 16	9 48	290 WNW	0.53	5.12	96 E	-0.51	5.09
1993 1 16	11 48	309 NW	0.41	16.15	356 N	16.12	-1.06
1993 1 16	13 48	309 NW	0.41	13.89	351 N	13.71	-2.23
1993 1 16	15 48	295 WNW	0.50	3.92	95 E	-0.37	3.91
1993 1 16	17 48	321 NW	0.50	18.45	160 SSE	-17.34	6.31
1993 1 16	19 48	322 NW	0.65	19.48	161 SSE	-18.42	6.35
1993 1 16	21 48	310 NW	0.45	9.52	145 SE	-7.82	5.43
1993 1 16	23 48	307 NW	0.45	13.06	4 N	13.04	0.82
Average		310 NW		13.39		-0.22	3.75
Maximum				21.67			
1993 1 17	1 48	312 NW	0.63	15.36	1 N	15.35	0.28
1993 1 17	3 48	306 NW	0.58	9.93	11 N	9.74	1.96
1993 1 17	5 48	305 NW	0.63	6.00	128 SE	-3.72	4.71
1993 1 17	7 48	315 NW	0.45	13.41	144 SE	-10.83	7.91
1993 1 17	9 48	312 NW	0.50	11.24	137 SE	-8.16	7.73
1993 1 17	11 48	297 WNW	0.58	6.76	47 NE	4.60	4.95
1993 1 17	13 48	311 NW	0.50	13.83	357 N	13.82	-0.72
1993 1 17	15 48	300 WNW	0.50	9.56	348 NNW	9.34	-2.04
1993 1 17	17 48	297 WNW	0.58	4.03	123 ESE	-2.22	3.36
1993 1 17	19 48	311 NW	0.45	14.84	152 SSE	-13.06	7.05
1993 1 17	21 48	327 NNW	0.63	14.03	158 SSE	-12.97	5.36
1993 1 17	23 48	298 WNW	0.45	4.35	103 ESE	-1.01	4.23
Average		308 NW		10.28		0.07	3.73
Maximum				15.36			
1993 1 18	1 48	304 NW	0.50	13.12	357 N	13.09	-0.74
1993 1 18	3 48	279 W	0.60	16.99	357 N	16.97	-0.93
1993 1 18	5 48	291 WNW	0.53	8.14	14 NNE	7.91	1.93
1993 1 18	7 48	314 NW	0.41	10.87	147 SSE	-9.14	5.88
1993 1 18	9 48	319 NW	0.38	15.43	156 SSE	-14.11	6.23
1993 1 18	11 48	309 NW	0.41	9.75	154 SSE	-8.75	4.30
1993 1 18	13 48	305 NW	0.35	6.28	357 N	6.27	-0.31
1993 1 18	15 48	303 WNW	0.53	14.95	343 NNW	14.28	-4.42
1993 1 18	17 48	309 NW	0.50	7.97	354 N	7.93	-0.78
1993 1 18	19 48	300 WNW	0.32	8.08	133 SE	-5.53	5.89
1993 1 18	21 48	317 NW	0.45	20.47	155 SSE	-18.58	8.59
1993 1 18	23 48	319 NW	0.53	17.38	151 SSE	-15.26	8.31
Average		306 NW		12.45		-0.41	2.83
Maximum				20.47			
1993 1 19	1 48	292 WNW	0.35	5.70	83 E	0.69	5.66
1993 1 19	3 48	309 NW	0.50	14.90	351 N	14.73	-2.21
1993 1 19	5 48	308 NW	0.45	14.68	353 N	14.57	-1.83
1993 1 19	7 48	294 WNW	0.45	7.24	65 ENE	3.06	6.56
1993 1 19	9 48	317 NW	0.53	19.04	145 SE	-15.62	10.89
1993 1 19	11 48	322 NW	0.48	24.15	150 SSE	-20.87	12.14
1993 1 19	13 48	316 NW	0.41	12.74	150 SSE	-11.07	6.29
1993 1 19	15 48	306 NW	0.45	8.09	355 N	8.06	-0.67
1993 1 19	17 48	308 NW	0.41	14.41	343 NNW	13.82	-4.10
1993 1 19	19 48	303 WNW	0.50	4.54	78 ENE	0.94	4.44
1993 1 19	21 48	323 NW	0.53	17.17	157 SSE	-15.75	6.85
1993 1 19	23 48	318 NW	0.52	23.04	157 SSE	-21.25	8.88
Average		310 NW		13.81		-2.39	4.41
Maximum				24.15			
1993 1 20	1 48	326 NW	0.53	10.02	138 SE	-7.43	6.72
1993 1 20	3 48	310 NW	0.41	15.75	355 N	15.69	-1.29
1993 1 20	5 48	310 NW	0.50	18.53	347 NNW	18.03	-4.26
1993 1 20	7 48	312 NW	0.47	10.52	20 NNE	9.92	3.52
1993 1 20	9 48	315 NW	0.45	15.44	142 SE	-12.09	9.61
1993 1 20	11 48	321 NW	0.50	26.46	155 SSE	-23.96	11.23
1993 1 20	13 48	317 NW	0.47	15.33	156 SSE	-14.01	6.23
1993 1 20	15 48	302 WNW	0.32	7.25	18 NNE	6.89	2.25
1993 1 20	17 48	298 WNW	0.67	21.63	346 NNW	20.96	-5.35
1993 1 20	19 48	306 NW	0.52	14.21	1 N	14.20	0.20
1993 1 20	21 48	312 NW	0.38	10.80	132 SE	-7.22	8.04
1993 1 20	23 48	317 NW	0.52	25.31	157 SSE	-23.24	10.04
Average		312 NW		15.94		-0.19	3.91
Maximum				26.46			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 21	1 48	310 NW	0.47	18.92	157 SSE	-17.47	7.27
1993 1 21	3 48	298 WNW	0.50	6.15	40 NE	4.73	3.92
1993 1 21	5 48	310 NW	0.55	26.78	346 NNW	26.00	-6.41
1993 1 21	7 48	317 NW	0.51	23.69	344 NNW	22.79	-6.48
1993 1 21	9 48	301 WNW	0.41	9.28	101 E	-1.84	9.10
1993 1 21	11 48	317 NW	0.62	29.19	152 SSE	-25.73	13.78
1993 1 21	13 48	316 NW	0.50	23.54	158 SSE	-21.86	8.73
1993 1 21	15 48	300 WNW	0.38	6.02	151 SSE	-5.29	2.89
1993 1 21	17 48	315 NW	0.50	21.96	347 NNW	21.40	-4.94
1993 1 21	19 48	318 NW	0.61	23.56	347 NNW	22.95	-5.32
1993 1 21	21 48	310 NW	0.46	7.89	47 NE	5.41	5.73
1993 1 21	23 48	320 NW	0.40	31.71	151 SSE	-27.65	15.51
Average		311 NW		19.06		0.29	3.65
Maximum				31.71			
1993 1 22	1 48	318 NW	0.49	29.86	147 SSE	-25.09	16.19
1993 1 22	3 48	328 NNW	0.45	9.21	126 SE	-5.38	7.47
1993 1 22	5 48	319 NW	0.52	24.90	348 NNW	24.35	-5.21
1993 1 22	7 48	329 NNW	0.64	29.49	347 NNW	28.69	-6.84
1993 1 22	9 48	306 NW	0.53	10.33	43 NE	7.53	7.06
1993 1 22	11 48	326 NW	0.52	28.69	149 SSE	-24.63	14.72
1993 1 22	13 48	334 NNW	0.56	33.82	155 SSE	-30.75	14.07
1993 1 22	15 48	331 NNW	0.65	18.10	149 SSE	-15.53	9.30
1993 1 22	17 48	323 NW	0.63	20.05	353 N	19.91	-2.36
1993 1 22	19 48	340 NNW	0.79	26.88	345 NNW	25.97	-6.94
1993 1 22	21 48	320 NW	0.77	12.15	25 NNE	10.98	5.19
1993 1 22	23 48	324 NW	0.41	21.54	143 SE	-17.18	13.01
Average		325 NW		22.09		-0.09	5.47
Maximum				33.82			
1993 1 23	1 48	331 NNW	0.53	33.24	156 SSE	-30.40	13.44
1993 1 23	3 48	327 NNW	0.58	15.11	158 SSE	-13.99	5.70
1993 1 23	5 48	318 NW	0.45	21.03	342 NNW	20.04	-6.38
1993 1 23	7 48	332 NNW	0.64	33.21	341 NNW	31.48	-10.59
1993 1 23	9 48	308 NW	0.53	13.70	9 N	13.53	2.14
1993 1 23	11 48	321 NW	0.50	22.71	146 SE	-18.76	12.79
1993 1 23	13 48	325 NW	0.53	34.64	157 SSE	-31.81	13.72
1993 1 23	15 48	324 NW	0.53	17.84	155 SSE	-16.12	7.66
1993 1 23	17 48	306 NW	0.50	12.62	6 N	12.54	1.42
1993 1 23	19 48	324 NW	0.67	27.08	345 NNW	26.21	-6.80
1993 1 23	21 48	328 NNW	0.55	16.37	358 N	16.36	-0.62
1993 1 23	23 48	324 NW	0.50	13.08	138 SE	-9.69	8.78
Average		322 NW		21.72		-0.05	3.44
Maximum				34.64			
1993 1 24	1 48	322 NW	0.66	32.86	158 SSE	-30.37	12.55
1993 1 24	3 48	313 NW	0.58	22.80	162 SSE	-21.68	7.06
1993 1 24	5 48	313 NW	0.38	9.70	353 N	9.63	-1.15
1993 1 24	7 48	322 NW	0.49	36.31	339 NNW	33.93	-12.93
1993 1 24	9 48	317 NW	0.41	15.64	348 NNW	15.29	-3.27
1993 1 24	11 48	312 NW	0.38	15.08	138 SE	-11.18	10.12
1993 1 24	13 48	318 NW	0.77	34.58	163 SSE	-33.04	10.18
1993 1 24	15 48	314 NW	0.58	24.50	161 SSE	-23.15	8.02
1993 1 24	17 48	302 WNW	0.47	2.39	85 E	0.21	2.38
1993 1 24	19 48	317 NW	0.58	26.47	340 NNW	24.94	-8.88
1993 1 24	21 48	309 NW	0.58	20.62	350 N	20.32	-3.52
1993 1 24	23 48	289 WNW	0.50	7.96	89 E	0.16	7.96
Average		312 NW		20.74		-1.24	2.38
Maximum				36.31			
1993 1 25	1 48	319 NW	0.64	31.67	160 SSE	-29.80	10.73
1993 1 25	3 48	314 NW	0.77	26.52	161 SSE	-25.11	8.52
1993 1 25	5 48	271 W	0.74	4.74	79 E	0.92	4.65
1993 1 25	7 48	328 NNW	0.50	31.50	339 NNW	29.48	-11.08
1993 1 25	9 48	316 NW	0.52	19.73	348 NNW	19.27	-4.23
1993 1 25	11 48	290 WNW	0.43	8.70	88 E	0.26	8.69
1993 1 25	13 48	322 NW	0.58	34.13	158 SSE	-31.56	13.01
1993 1 25	15 48	318 NW	0.56	27.71	156 SSE	-25.32	11.25
1993 1 25	17 48	319 NW	0.55	8.79	148 SSE	-7.48	4.62
1993 1 25	19 48	311 NW	0.61	23.86	341 NNW	22.55	-7.82
1993 1 25	21 48	315 NW	0.63	22.69	347 NNW	22.14	-4.96
1993 1 25	23 48	300 WNW	0.52	8.94	23 NNE	8.23	3.49
Average		310 NW		20.75		-1.37	3.07
Maximum				34.13			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 26	1 48	328 NNW	0.67	26.77	160 SSE	-25.09	9.31
1993 1 26	3 48	325 NW	0.65	26.45	160 SSE	-24.81	9.18
1993 1 26	5 48	295 WNW	0.50	7.27	165 SSE	-7.04	1.82
1993 1 26	7 48	313 NW	0.67	23.80	343 NNW	22.71	-7.15
1993 1 26	9 48	318 NW	0.48	27.87	338 NNW	25.81	-10.52
1993 1 26	11 48	300 WNW	0.50	8.78	53 NE	5.29	7.01
1993 1 26	13 48	315 NW	0.55	27.23	152 SSE	-24.12	12.65
1993 1 26	15 48	322 NW	0.61	25.23	162 SSE	-24.05	7.62
1993 1 26	17 48	324 NW	0.58	18.92	156 SSE	-17.30	7.66
1993 1 26	19 48	297 WNW	0.63	15.81	349 N	15.54	-2.94
1993 1 26	21 48	321 NW	0.68	28.58	341 NNW	26.96	-9.49
1993 1 26	23 48	325 NW	0.48	18.08	359 N	18.08	-0.19
Average		315 NW		21.23		-0.67	2.08
Maximum				28.58			
1993 1 27	1 48	316 NW	0.58	19.71	149 SSE	-16.95	10.07
1993 1 27	3 48	326 NW	0.63	27.85	157 SSE	-25.66	10.83
1993 1 27	5 48	312 NW	0.50	13.88	156 SSE	-12.72	5.55
1993 1 27	7 48	314 NW	0.53	18.65	345 NNW	18.03	-4.77
1993 1 27	9 48	317 NW	0.63	30.22	337 NNW	27.75	-11.96
1993 1 27	11 48	307 NW	0.52	11.21	6 N	11.14	1.25
1993 1 27	13 48	321 NW	0.43	19.95	155 SSE	-18.12	8.36
1993 1 27	15 48	321 NW	0.62	27.78	165 SSE	-26.82	7.24
1993 1 27	17 48	312 NW	0.55	16.81	168 SSE	-16.43	3.54
1993 1 27	19 48	309 NW	0.26	14.52	346 NNW	14.08	-3.56
1993 1 27	21 48	306 NW	0.43	29.00	338 NNW	26.82	-11.03
1993 1 27	23 48	309 NW	0.27	14.23	355 N	14.18	-1.13
Average		314 NW		20.32		-0.39	1.20
Maximum				30.22			
1993 1 28	1 48	309 NW	0.32	13.87	143 SE	-11.06	8.36
1993 1 28	3 48	317 NW	0.51	27.63	153 SSE	-24.64	12.50
1993 1 28	5 48	311 NW	0.52	17.75	157 SSE	-16.38	6.84
1993 1 28	7 48	302 WNW	0.39	11.61	359 N	11.61	-0.11
1993 1 28	9 48	320 NW	0.61	30.01	341 NNW	28.42	-9.65
1993 1 28	11 48	310 NW	0.41	14.21	356 N	14.17	-0.98
1993 1 28	13 48	316 NW	0.45	15.33	142 SE	-12.11	9.40
1993 1 28	15 48	317 NW	0.53	28.98	160 SSE	-27.23	9.90
1993 1 28	17 48	304 NW	0.43	18.05	164 SSE	-17.34	5.01
1993 1 28	19 48	295 WNW	0.35	2.83	328 NNW	2.40	-1.50
1993 1 28	21 48	311 NW	0.40	22.93	342 NNW	21.82	-7.07
1993 1 28	23 48	308 NW	0.45	19.65	347 NNW	19.16	-4.37
Average		310 NW		18.57		-0.93	2.36
Maximum				30.01			
1993 1 29	1 48	296 WNW	0.32	5.89	114 ESE	-2.35	5.40
1993 1 29	3 48	307 NW	0.50	25.71	157 SSE	-23.59	10.20
1993 1 29	5 48	308 NW	0.38	21.40	162 SSE	-20.40	6.46
1993 1 29	7 48	296 WNW	0.27	0.58	296 WNW	0.25	-0.52
1993 1 29	9 48	305 NW	0.46	21.35	344 NNW	20.53	-5.89
1993 1 29	11 48	310 NW	0.34	15.32	351 N	15.13	-2.40
1993 1 29	13 48	296 WNW	0.33	6.97	116 ESE	-3.04	6.27
1993 1 29	15 48	314 NW	0.53	25.54	161 SSE	-24.18	8.24
1993 1 29	17 48	308 NW	0.55	21.03	169 S	-20.62	4.13
1993 1 29	19 48	301 WNW	0.39	4.41	143 SE	-3.54	2.64
1993 1 29	21 48	301 WNW	0.35	18.25	350 N	17.98	-3.10
1993 1 29	23 48	306 NW	0.43	17.03	351 N	16.79	-2.81
Average		304 NW		15.29		-2.25	2.39
Maximum				25.71			
1993 1 30	1 48	307 NW	0.40	2.05	46 NE	1.43	1.46
1993 1 30	3 48	319 NW	0.53	23.58	163 SSE	-22.51	7.02
1993 1 30	5 48	324 NW	0.63	22.92	165 SSE	-22.18	5.77
1993 1 30	7 48	308 NW	0.58	13.48	184 S	-13.44	-1.00
1993 1 30	9 48	308 NW	0.45	13.86	334 NNW	12.47	-6.04
1993 1 30	11 48	309 NW	0.47	14.32	345 NNW	13.82	-3.75
1993 1 30	13 48	297 WNW	0.65	6.91	53 NE	4.17	5.51
1993 1 30	15 48	312 NW	0.53	17.28	157 SSE	-15.88	6.81
1993 1 30	17 48	311 NW	0.71	19.01	164 SSE	-18.26	5.28
1993 1 30	19 48	309 NW	0.65	5.87	163 SSE	-5.62	1.69
1993 1 30	21 48	310 NW	0.65	17.68	351 N	17.45	-2.82
1993 1 30	23 48	321 NW	0.58	22.77	343 NNW	21.77	-6.68
Average		311 NW		14.98		-2.23	1.10
Maximum				23.58			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 1 31	1 48	319 NW	0.49	15.04	347 NNW	14.68	-3.27
1993 1 31	3 48	313 NW	0.50	9.60	170 S	-9.46	1.62
1993 1 31	5 48	322 NW	0.65	21.80	164 SSE	-20.96	6.01
1993 1 31	7 48	314 NW	0.45	11.37	177 S	-11.35	0.57
1993 1 31	9 48	306 NW	0.38	8.23	310 NW	5.31	-6.29
1993 1 31	11 48	315 NW	0.53	13.39	332 NNW	11.79	-6.34
1993 1 31	13 48	295 WNW	0.50	2.46	304 NW	1.37	-2.04
1993 1 31	15 48	302 WNW	0.41	12.38	176 S	-12.35	0.94
1993 1 31	17 48	340 NNW	0.65	19.61	166 SSE	-19.07	4.60
1993 1 31	19 48	302 WNW	0.45	9.65	164 SSE	-9.26	2.70
1993 1 31	21 48	300 WNW	0.53	8.56	352 N	8.48	-1.14
1993 1 31	23 48	309 NW	0.55	20.50	329 NNW	17.62	-10.47
Average		311 NW		12.72		-1.93	-1.09
Maximum				21.80			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: January 1993

Date	Time	Wave		Current				
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)	
1993 2 1	1 48	316 NW	0.68	22.55	346 NNW	21.90	-5.38	
1993 2 1	3 48	288 WNW	0.55	11.00	17 NNE	10.51	3.24	
1993 2 1	5 48	291 WNW	0.32	7.68	114 ESE	-3.07	7.04	
1993 2 1	7 48	301 WNW	0.33	7.43	125 SE	-4.25	6.10	
1993 2 1	9 48	298 WNW	0.32	5.86	17 NNE	5.60	1.72	
1993 2 1	11 48	299 WNW	0.50	12.62	356 N	12.59	-0.92	
1993 2 1	13 48	318 NW	0.52	13.84	357 N	13.83	-0.61	
1993 2 1	15 48	292 WNW	0.47	2.33	77 ENE	0.53	2.27	
1993 2 1	17 48	304 NW	0.41	9.14	168 SSE	-8.93	1.96	
1993 2 1	19 48	300 WNW	0.77	9.33	178 S	-9.32	0.38	
1993 2 1	21 48	282 WNW	0.53	5.40	228 SW	-3.61	-4.02	
1993 2 1	23 48	302 WNW	0.45	9.37	318 NW	7.00	-6.23	
Average		299 WNW		9.71		3.57	0.46	
Maximum				22.55				
1993 2 2	1 48	299 WNW	0.63	9.83	358 N	9.82	-0.29	
1993 2 2	3 48	321 NW	0.43	5.98	353 N	5.94	-0.74	
1993 2 2	5 48	302 WNW	0.32	3.83	151 SSE	-3.35	1.84	
1993 2 2	7 48	316 NW	0.35	9.53	163 SSE	-9.13	2.74	
1993 2 2	9 48	308 NW	0.30	6.31	149 SSE	-5.41	3.25	
1993 2 2	11 48	300 WNW	0.35	2.94	17 NNE	2.82	0.85	
1993 2 2	13 48	308 NW	0.45	9.29	344 NNW	8.93	-2.57	
1993 2 2	15 48	318 NW	0.45	9.47	344 NNW	9.11	-2.57	
1993 2 2	17 48	310 NW	0.63	1.69	351 N	1.67	-0.27	
1993 2 2	19 48	311 NW	0.50	10.10	179 S	-10.10	0.22	
1993 2 2	21 48	307 NW	0.58	9.71	172 S	-9.62	1.35	
1993 2 2	23 48	308 NW	0.50	3.48	186 S	-3.46	-0.36	
Average		309 NW		6.85		-0.23	0.29	
Maximum				10.10				
1993 2 3	1 48	307 NW	0.58	8.51	346 NNW	8.24	-2.12	
1993 2 3	3 48	311 NW	0.50	10.90	352 N	10.80	-1.46	
1993 2 3	5 48	333 NNW	0.87	7.47	10 N	7.34	1.34	
1993 2 3	7 48	300 WNW	0.50	6.86	137 SE	-5.03	4.66	
1993 2 3	9 48	314 NW	0.63	15.53	157 SSE	-14.27	6.12	
Average		313 NW		9.85		1.42	1.71	
Maximum				15.53				

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: February 1993

Date	Time	Wave		Velocity (cm/s)	Current			
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)	
1993	2 3	11 48	308 NW	0.71	11.02	149 SSE	-9.42	5.73
1993	2 3	13 48	276 W	0.71	5.22	18 NNE	4.97	1.60
1993	2 3	15 48	261 W	1.00	17.40	332 NNW	15.32	-8.25
1993	2 3	17 48	290 NNW	0.71	15.55	327 NNW	12.99	-8.55
1993	2 3	19 48	291 NNW	0.71	0.69	332 NNW	0.61	-0.32
1993	2 3	21 48	208 SSW	1.00	15.23	170 S	-14.99	2.71
1993	2 3	23 48	338 NNW	0.71	10.52	167 SSE	-10.25	2.39
Average Maximum		282 NNW		10.80 17.40			-0.11	-0.67
1993	2 4	1 48	266 W	0.87	1.31	263 W	-0.15	-1.30
1993	2 4	3 48	309 NW	0.71	26.08	330 NNW	22.57	-13.06
1993	2 4	5 48	168 SSE	0.91	26.35	341 NNW	24.85	-8.76
1993	2 4	7 48	247 WSW	0.87	12.16	14 NNE	11.81	2.89
1993	2 4	9 48	302 NNW	0.58	16.84	142 SE	-13.26	10.38
1993	2 4	11 48	324 NW	0.75	22.42	151 SSE	-19.70	10.71
1993	2 4	13 48	294 NNW	0.87	8.87	147 SSE	-7.43	4.84
1993	2 4	15 48	167 SSE	0.77	17.91	340 NNW	16.79	-6.23
1993	2 4	17 48	329 NNW	0.71	28.92	333 NNW	25.72	-13.21
1993	2 4	19 48	297 NNW	0.77	13.31	347 NNW	12.94	-3.11
1993	2 4	21 48	330 NNW	0.71	15.07	154 SSE	-13.55	6.59
1993	2 4	23 48	340 NNW	0.82	28.76	159 SSE	-26.81	10.41
Average Maximum		281 W		18.17 28.92			2.82	0.01
1993	2 5	1 48	312 NW	0.89	16.12	157 SSE	-14.84	6.29
1993	2 5	3 48	295 NNW	0.71	23.05	335 NNW	20.92	-9.68
1993	2 5	5 48	164 SSE	0.72	42.78	334 NNW	38.49	-18.67
1993	2 5	7 48	331 NNW	0.67	25.94	348 NNW	25.36	-5.46
1993	2 5	9 48	335 NNW	0.87	11.62	122 ESE	-6.10	9.89
1993	2 5	11 48	342 NNW	0.83	34.64	160 SSE	-32.46	12.08
1993	2 5	13 48	165 SSE	0.73	28.98	155 SSE	-26.24	12.29
1993	2 5	15 48	280 W	0.89	5.00	357 N	5.00	-0.29
1993	2 5	17 48	336 NNW	0.89	35.82	335 NNW	32.34	-15.39
1993	2 5	19 48	320 NW	0.82	29.90	339 NNW	27.99	-10.51
1993	2 5	21 48	170 S	0.63	6.31	90 E	-0.02	6.31
1993	2 5	23 48	343 NNW	0.82	33.67	157 SSE	-30.98	13.17
Average Maximum		283 NNW		24.49 42.78			3.29	0.00

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: February 1993

Date	Time	Wave		Current				
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)	
1993 2 6	1 48	176 S	0.75	27.43	159 SSE	-25.59	9.88	
1993 2 6	3 48	325 NW	0.82	4.72	18 NNE	4.48	1.48	
1993 2 6	5 48	323 NW	0.79	45.90	340 NNW	43.08	-15.85	
1993 2 6	7 48	323 NW	0.85	39.50	338 NNW	36.54	-15.02	
1993 2 6	9 48	309 NW	0.63	10.21	80 E	1.69	10.07	
1993 2 6	11 48	341 NNW	0.77	35.55	155 SSE	-32.24	14.97	
1993 2 6	13 48	340 NNW	0.80	34.91	154 SSE	-31.42	15.21	
1993 2 6	15 48	276 W	0.63	6.53	131 SE	-4.28	4.94	
1993 2 6	17 48	247 WSW	0.76	39.04	337 NNW	35.91	-15.32	
1993 2 6	19 48	325 NW	0.73	43.03	341 NNW	40.58	-14.34	
1993 2 6	21 48	300 NNW	0.87	14.94	11 N	14.68	2.77	
1993 2 6	23 48	317 NW	0.80	31.71	152 SSE	-28.08	14.74	
Average		300 WNW		27.79		4.61	1.13	
Maximum				45.90				
1993 2 7	1 48	164 SSE	0.66	40.01	159 SSE	-37.27	14.55	
1993 2 7	3 48	311 NW	0.91	12.75	165 SSE	-12.34	3.22	
1993 2 7	5 48	330 NNW	0.87	39.66	344 NNW	38.21	-10.63	
1993 2 7	7 48	324 NW	0.64	54.66	334 NNW	49.16	-23.90	
1993 2 7	9 48	306 NW	0.58	18.24	12 NNE	17.87	3.65	
1993 2 7	11 48	328 NNW	0.85	32.37	149 SSE	-27.76	16.64	
1993 2 7	13 48	166 SSE	0.53	41.91	159 SSE	-39.18	14.89	
1993 2 7	15 48	329 NNW	0.71	30.59	153 SSE	-27.18	14.03	
1993 2 7	17 48	303 WNW	0.77	28.84	348 NNW	28.18	-6.13	
1993 2 7	19 48	313 NW	0.82	48.10	337 NNW	44.16	-19.08	
1993 2 7	21 48	313 NW	0.67	33.97	347 NNW	33.11	-7.60	
1993 2 7	23 48	302 WNW	0.54	17.93	137 SE	-13.16	12.17	
Average		291 WNW		33.25		4.48	0.98	
Maximum				54.66				
1993 2 8	1 48	172 S	0.64	44.72	164 SSE	-42.91	12.60	
1993 2 8	3 48	342 NNW	0.61	33.05	169 S	-32.40	6.50	
1993 2 8	5 48	310 NW	0.43	28.65	352 N	28.34	-4.19	
1993 2 8	7 48	333 NNW	0.73	56.14	331 NNW	49.33	-26.80	
1993 2 8	9 48	284 WNW	0.73	33.84	344 NNW	32.54	-9.27	
1993 2 8	11 48	253 WSW	0.85	20.02	129 SE	-12.64	15.52	
1993 2 8	13 48	334 NNW	0.66	46.76	157 SSE	-43.01	18.34	
1993 2 8	15 48	333 NNW	0.94	33.09	165 SSE	-31.90	8.83	
1993 2 8	17 48	237 WSW	1.00	8.34	359 N	8.34	-0.21	
1993 2 8	19 48	329 NNW	0.76	47.76	333 NNW	42.64	-21.53	
1993 2 8	21 48	312 NW	0.79	44.41	339 NNW	41.46	-15.90	
1993 2 8	23 48	333 NNW	0.66	10.70	49 NE	6.97	8.11	
Average		298 WNW		33.96		3.90	-0.67	
Maximum				56.14				
1993 2 9	1 48	339 NNW	0.69	45.78	161 SSE	-43.30	14.85	
1993 2 9	3 48	164 SSE	0.66	33.00	161 SSE	-31.30	10.48	
1993 2 9	5 48	329 NNW	0.85	7.46	333 NNW	6.64	-3.40	
1993 2 9	7 48	325 NW	0.64	52.50	335 NNW	47.62	-22.10	
1993 2 9	9 48	321 NW	0.65	41.64	337 NNW	38.21	-16.57	
1993 2 9	11 48	327 NNW	0.43	11.95	93 E	-0.57	11.93	
1993 2 9	13 48	168 SSE	0.71	43.31	162 SSE	-41.19	13.38	
1993 2 9	15 48	164 SSE	0.72	35.57	165 SSE	-34.35	9.21	
1993 2 9	17 48	316 NW	0.71	6.55	148 SSE	-5.56	3.46	
1993 2 9	19 48	299 WNW	0.74	46.70	341 NNW	44.13	-15.28	
1993 2 9	21 48	334 NNW	0.69	53.41	338 NNW	49.36	-20.41	
1993 2 9	23 48	166 SSE	0.63	21.62	8 N	21.40	3.04	
Average		271 W		33.29		4.26	-0.95	
Maximum				53.41				
1993 2 10	1 48	340 NNW	0.63	31.30	156 SSE	-28.57	12.79	
1993 2 10	3 48	334 NNW	0.63	37.44	159 SSE	-35.06	13.13	
1993 2 10	5 48	316 NW	0.85	5.90	171 S	-5.83	0.90	
1993 2 10	7 48	328 NNW	0.54	41.59	333 NNW	37.18	-18.65	
1993 2 10	9 48	323 NW	0.71	46.70	333 NNW	41.45	-21.52	
1993 2 10	11 48	334 NNW	0.55	17.19	2 N	17.18	0.58	
1993 2 10	13 48	336 NNW	0.80	30.10	154 SSE	-27.00	13.31	
1993 2 10	15 48	342 NNW	0.60	43.59	163 SSE	-41.65	12.87	
1993 2 10	17 48	165 SSE	0.71	19.84	160 SSE	-18.70	6.63	
1993 2 10	19 48	319 NW	0.71	29.77	339 NNW	27.83	-10.57	
1993 2 10	21 48	321 NW	0.63	54.35	334 NNW	48.82	-23.89	
1993 2 10	23 48	318 NW	0.65	29.04	346 NNW	28.16	-7.09	
Average		315 NW		32.23		3.65	-1.79	
Maximum				54.35				

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: February 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 2 11	1 48	240 WSW	0.77	16.75	140 SE	-12.80	10.80
1993 2 11	3 48	168 SSE	0.64	37.94	162 SSE	-36.00	11.97
1993 2 11	5 48	325 NW	0.71	19.07	160 SSE	-17.94	6.46
1993 2 11	7 48	303 WNW	0.77	27.45	334 NNW	24.62	-12.15
1993 2 11	9 48	336 NNW	0.77	46.90	333 NNW	41.75	-21.37
1993 2 11	11 48	296 WNW	0.87	24.73	349 N	24.29	-4.65
1993 2 11	13 48	304 NW	0.87	15.93	143 SE	-12.78	9.51
1993 2 11	15 48	335 NNW	0.71	36.90	164 SSE	-35.39	10.45
1993 2 11	17 48	171 S	0.82	27.87	162 SSE	-26.44	8.80
1993 2 11	19 48	260 W	0.94	9.53	11 N	9.36	1.75
1993 2 11	21 48	165 SSE	0.75	41.97	338 NNW	38.86	-15.84
1993 2 11	23 48	166 SSE	0.88	37.93	344 NNW	36.51	-10.25
Average		256 WSW		28.58		2.84	-0.38
Maximum				46.90			
1993 2 12	1 48	330 NNW	0.82	8.01	30 NNE	6.94	4.00
1993 2 12	3 48	328 NNW	0.55	27.45	161 SSE	-26.00	8.80
1993 2 12	5 48	170 S	0.63	23.80	158 SSE	-22.06	8.96
1993 2 12	7 48	326 NW	0.44	5.71	13 NNE	5.55	1.30
1993 2 12	9 48	194 SSW	1.00	34.64	340 NNW	32.51	-11.97
1993 2 12	11 48	331 NNW	0.82	29.11	343 NNW	27.81	-8.59
1993 2 12	13 48	299 WNW	0.89	7.76	56 NE	4.38	6.41
1993 2 12	15 48	331 NNW	0.80	29.69	160 SSE	-27.84	10.30
1993 2 12	17 48	177 S	0.79	31.42	165 SSE	-30.32	8.23
1993 2 12	19 48	327 NNW	0.35	2.24	125 SE	-1.27	1.84
1993 2 12	21 48	331 NNW	0.91	30.54	348 NNW	29.92	-6.12
1993 2 12	23 48	322 NW	0.84	37.67	340 NNW	35.30	-13.16
Average		289 WNW		22.34		2.91	0.83
Maximum				37.67			
1993 2 13	1 48	169 S	0.79	15.99	359 N	15.98	-0.19
1993 2 13	3 48	337 NNW	0.50	14.26	154 SSE	-12.82	6.23
1993 2 13	5 48	334 NNW	0.84	23.61	159 SSE	-21.98	8.61
1993 2 13	7 48	322 NW	0.89	5.88	176 S	-5.86	0.45
1993 2 13	9 48	276 W	0.82	24.34	342 NNW	23.19	-7.40
1993 2 13	11 48	339 NNW	0.82	28.53	343 NNW	27.27	-8.41
1993 2 13	13 48	324 NW	0.55	9.80	6 N	9.75	0.98
1993 2 13	15 48	326 NW	0.58	16.45	163 SSE	-15.69	4.93
1993 2 13	17 48	326 NW	0.71	20.43	166 SSE	-19.82	4.98
1993 2 13	19 48	337 NNW	0.87	8.85	178 S	-8.85	0.29
1993 2 13	21 48	322 NW	0.58	22.08	338 NNW	20.50	-8.21
1993 2 13	23 48	165 SSE	0.89	28.96	334 NNW	26.00	-12.74
Average		298 WNW		18.27		3.14	-0.87
Maximum				28.96			
1993 2 14	1 48	323 NW	0.71	20.96	349 N	20.57	-4.06
1993 2 14	3 48	337 NNW	1.00	3.55	88 E	0.13	3.55
1993 2 14	5 48	328 NNW	0.87	13.75	159 SSE	-12.80	5.03
1993 2 14	7 48	327 NNW	0.39	7.12	153 SSE	-6.34	3.24
1993 2 14	9 48	324 NW	0.58	14.17	344 NNW	13.62	-3.93
1993 2 14	11 48	290 WNW	0.87	24.89	338 NNW	23.07	-9.33
1993 2 14	13 48	308 NW	0.63	18.98	339 NNW	17.76	-6.70
1993 2 14	15 48	168 SSE	1.00	1.86	286 WNW	0.53	-1.79
1993 2 14	17 48	174 S	0.87	11.81	189 S	-11.64	-1.95
1993 2 14	19 48	315 NW	0.87	7.56	218 SW	-5.95	-4.67
1993 2 14	21 48	286 WNW	0.82	10.91	322 NW	8.59	-6.74
1993 2 14	23 48	319 NW	0.71	22.18	330 NNW	19.22	-11.07
Average		292 WNW		13.15		5.56	-3.20
Maximum				24.89			
1993 2 15	1 48	320 NW	0.77	19.09	336 NNW	17.47	-7.70
1993 2 15	3 48	326 NW	0.43	10.69	344 NNW	10.25	-3.03
1993 2 15	5 48	288 WNW	0.58	2.10	142 SE	-1.64	1.30
1993 2 15	7 48	326 NW	0.85	5.69	115 ESE	-2.43	5.15
1993 2 15	9 48	325 NW	0.31	1.97	92 E	-0.08	1.97
1993 2 15	11 48	316 NW	0.53	10.21	360 N	10.21	-0.06
1993 2 15	13 48	322 NW	0.58	14.90	339 NNW	13.90	-5.37
1993 2 15	15 48	295 WNW	1.00	10.60	338 NNW	9.86	-3.90
1993 2 15	17 48	321 NW	0.47	3.01	237 WSW	-1.66	-2.51
1993 2 15	19 48	311 NW	0.65	6.72	184 S	-6.70	-0.45
1993 2 15	21 48	329 NNW	0.46	7.93	179 S	-7.93	0.11
1993 2 15	23 48	269 W	0.82	0.67	165 SSE	-0.65	0.17
Average		312 NW		7.80		3.38	-1.19
Maximum				19.09			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: February 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 2 16	1 48	270 W	0.71	8.44	320 NW	6.42	-5.48
1993 2 16	3 48	311 NW	0.87	11.48	348 NNW	11.22	-2.43
1993 2 16	5 48	254 WSW	0.71	3.18	42 NE	2.35	2.14
1993 2 16	7 48	308 NW	0.82	7.21	141 SE	-5.63	4.51
1993 2 16	9 48	327 NNW	0.16	9.03	148 SSE	-7.65	4.80
1993 2 16	11 48	293 WNW	0.71	5.69	160 SSE	-5.33	1.99
1993 2 16	13 48	318 NW	0.61	4.54	341 NNW	4.28	-1.50
1993 2 16	15 48	311 NW	0.77	11.19	335 NNW	10.15	-4.72
1993 2 16	17 48	327 NNW	0.27	8.03	331 NNW	7.01	-3.92
1993 2 16	19 48	286 WNW	0.63	2.35	204 SSW	-2.15	-0.95
1993 2 16	21 48	329 NNW	0.20	12.16	166 SSE	-11.83	2.85
1993 2 16	23 48	324 NW	0.65	14.18	164 SSE	-13.60	4.02
Average		305 NW		8.12		-0.40	0.11
Maximum				14.18			
1993 2 17	1 48	329 NNW	0.31	6.10	194 SSW	-5.91	-1.52
1993 2 17	3 48	323 NW	0.45	12.14	331 NNW	10.60	-5.92
1993 2 17	5 48	322 NW	0.71	16.85	335 NNW	15.32	-7.01
1993 2 17	7 48	326 NW	0.26	4.73	348 NNW	4.63	-0.96
1993 2 17	9 48	324 NW	0.63	10.98	150 SSE	-9.55	5.42
1993 2 17	11 48	338 NNW	0.87	14.94	157 SSE	-13.80	5.72
1993 2 17	13 48	292 WNW	0.82	5.41	149 SSE	-4.64	2.79
1993 2 17	15 48	314 NW	0.71	11.31	333 NNW	10.06	-5.18
1993 2 17	17 48	326 NW	0.77	19.94	331 NNW	17.51	-9.53
1993 2 17	19 48	316 NW	0.82	8.15	330 NNW	7.05	-4.09
1993 2 17	21 48	328 NNW	0.18	13.17	164 SSE	-12.64	3.69
1993 2 17	23 48	328 NNW	0.31	18.37	162 SSE	-17.46	5.71
Average		322 NW		11.84		0.10	-0.91
Maximum				19.94			
1993 2 18	1 48	167 SSE	0.77	11.28	168 SSE	-11.04	2.32
1993 2 18	3 48	303 WNW	0.71	12.66	345 NNW	12.24	-3.24
1993 2 18	5 48	314 NW	0.76	25.15	336 NNW	22.91	-10.39
1993 2 18	7 48	327 NNW	0.33	15.57	347 NNW	15.19	-3.44
1993 2 18	9 48	326 NW	1.00	6.56	144 SE	-5.31	3.84
1993 2 18	11 48	333 NNW	0.60	19.36	161 SSE	-18.28	6.36
1993 2 18	13 48	319 NW	0.63	11.88	165 SSE	-11.47	3.11
1993 2 18	15 48	296 WNW	0.82	16.06	330 NNW	13.92	-8.00
1993 2 18	17 48	166 SSE	0.74	29.07	334 NNW	26.06	-12.89
1993 2 18	19 48	337 NNW	0.79	16.82	334 NNW	15.09	-7.43
1993 2 18	21 48	171 S	0.71	7.83	149 SSE	-6.72	4.02
1993 2 18	23 48	328 NNW	0.59	28.49	161 SSE	-26.91	9.34
Average		282 WNW		16.73		2.14	-1.37
Maximum				29.07			
1993 2 19	1 48	176 S	0.89	15.48	162 SSE	-14.71	4.81
1993 2 19	3 48	287 WNW	0.87	3.46	307 NW	2.10	-2.75
1993 2 19	5 48	334 NNW	0.67	30.42	333 NNW	27.01	-13.99
1993 2 19	7 48	342 NNW	0.65	22.91	340 NNW	21.52	-7.87
1993 2 19	9 48	328 NNW	0.71	6.23	130 SE	-3.99	4.79
1993 2 19	11 48	335 NNW	0.59	30.28	158 SSE	-28.14	11.20
1993 2 19	13 48	336 NNW	0.71	24.18	158 SSE	-22.48	8.91
1993 2 19	15 48	336 NNW	0.55	5.57	85 E	0.45	5.55
1993 2 19	17 48	333 NNW	0.71	28.18	335 NNW	25.51	-11.98
1993 2 19	19 48	332 NNW	0.89	25.42	339 NNW	23.67	-9.26
1993 2 19	21 48	190 S	0.87	6.00	33 NNE	5.05	3.24
1993 2 19	23 48	332 NNW	0.80	30.84	158 SSE	-28.69	11.32
Average		305 NW		19.08		0.61	0.33
Maximum				30.84			
1993 2 20	1 48	338 NNW	0.71	26.66	163 SSE	-25.54	7.63
1993 2 20	3 48	308 NW	0.53	7.38	271 W	0.18	-7.38
1993 2 20	5 48	327 NNW	0.82	36.80	334 NNW	33.07	-16.14
1993 2 20	7 48	343 NNW	0.73	31.58	340 NNW	29.73	-10.66
1993 2 20	9 48	291 WNW	0.82	6.58	38 NE	5.15	4.09
1993 2 20	11 48	340 NNW	0.61	31.49	158 SSE	-29.24	11.70
1993 2 20	13 48	332 NNW	0.73	29.20	162 SSE	-27.73	9.17
1993 2 20	15 48	306 NW	0.71	8.39	155 SSE	-7.59	3.57
1993 2 20	17 48	168 SSE	0.77	28.92	336 NNW	26.51	-11.56
1993 2 20	19 48	339 NNW	0.73	32.55	337 NNW	29.88	-12.92
1993 2 20	21 48	298 WNW	0.71	13.77	4 N	13.74	0.91
1993 2 20	23 48	329 NNW	0.61	22.64	157 SSE	-20.86	8.80
Average		310 NW		23.00		2.28	-1.07
Maximum				36.80			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: February 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 2 21	1 48	335 NNW	0.62	33.14	160 SSE	-31.13	11.37
1993 2 21	3 48	323 NW	0.71	13.48	164 SSE	-12.95	3.76
1993 2 21	5 48	314 NW	0.89	27.69	334 NNW	24.91	-12.09
1993 2 21	7 48	342 NNW	0.75	36.38	337 NNW	33.58	-14.00
1993 2 21	9 48	320 NW	0.58	10.27	11 N	10.06	2.04
1993 2 21	11 48	339 NNW	0.71	30.58	156 SSE	-27.91	12.50
1993 2 21	13 48	331 NNW	0.73	39.16	163 SSE	-37.41	11.56
1993 2 21	15 48	328 NNW	0.77	15.14	154 SSE	-13.66	6.53
1993 2 21	17 48	325 NW	0.87	28.62	339 NNW	26.71	-10.28
1993 2 21	19 48	340 NNW	0.88	34.61	336 NNW	31.73	-13.82
1993 2 21	21 48	334 NNW	0.67	21.68	349 N	21.31	-3.99
1993 2 21	23 48	167 SSE	0.71	21.71	152 SSE	-19.17	10.21
Average		317 NW		26.04		0.51	0.32
Maximum				39.16			
1993 2 22	1 48	340 NNW	0.57	40.72	161 SSE	-38.55	13.10
1993 2 22	3 48	173 S	0.61	27.40	168 SSE	-26.84	5.51
1993 2 22	5 48	299 NNW	0.58	19.25	326 NW	16.05	-10.63
1993 2 22	7 48	327 NNW	0.69	41.72	333 NNW	37.16	-18.98
1993 2 22	9 48	324 NW	0.53	20.80	351 N	20.51	-3.41
1993 2 22	11 48	323 NW	0.61	22.69	146 SE	-18.86	12.60
1993 2 22	13 48	339 NNW	0.78	40.99	160 SSE	-38.55	13.92
1993 2 22	15 48	165 SSE	0.74	28.34	162 SSE	-26.94	8.82
1993 2 22	17 48	341 NNW	0.71	14.17	337 NNW	13.04	-5.56
1993 2 22	19 48	164 SSE	0.77	36.84	338 NNW	34.07	-14.01
1993 2 22	21 48	324 NW	0.67	25.49	344 NNW	24.55	-6.86
1993 2 22	23 48	311 NW	0.62	11.43	132 SE	-7.68	8.46
Average		286 WNW		27.49		-1.00	0.25
Maximum				41.72			
1993 2 23	1 48	314 NW	0.74	39.39	161 SSE	-37.16	13.07
1993 2 23	3 48	319 NW	0.64	31.55	163 SSE	-30.19	9.17
1993 2 23	5 48	327 NNW	0.62	13.21	330 NNW	11.38	-6.70
1993 2 23	7 48	321 NW	0.67	41.82	333 NNW	37.31	-18.89
1993 2 23	9 48	292 WNW	0.75	28.78	343 NNW	27.54	-8.38
1993 2 23	11 48	166 SSE	0.91	14.64	132 SE	-9.76	10.92
1993 2 23	13 48	328 NNW	0.57	41.44	159 SSE	-38.64	14.96
1993 2 23	15 48	328 NNW	0.74	25.01	164 SSE	-23.99	7.08
1993 2 23	17 48	323 NW	0.61	5.83	352 N	5.77	-0.82
1993 2 23	19 48	335 NNW	0.74	41.39	338 NNW	38.45	-15.31
1993 2 23	21 48	327 NNW	0.79	34.81	343 NNW	33.21	-10.43
1993 2 23	23 48	342 NNW	0.87	8.37	59 ENE	4.37	7.14
Average		310 NW		27.19		1.52	0.15
Maximum				41.82			
1993 2 24	1 48	339 NNW	0.82	39.87	162 SSE	-37.99	12.10
1993 2 24	3 48	337 NNW	0.73	33.91	158 SSE	-31.50	12.56
1993 2 24	5 48	319 NW	0.53	2.97	217 SW	-2.37	-1.79
1993 2 24	7 48	182 S	0.67	33.58	339 NNW	31.44	-11.79
1993 2 24	9 48	342 NNW	0.61	28.15	338 NNW	26.18	-10.37
1993 2 24	11 48	330 NNW	0.63	6.70	96 E	-0.68	6.66
1993 2 24	13 48	340 NNW	0.71	36.23	155 SSE	-32.84	15.30
1993 2 24	15 48	175 S	0.87	25.15	153 SSE	-22.49	11.25
1993 2 24	17 48	313 NW	0.63	5.31	134 SE	-3.67	3.84
1993 2 24	19 48	165 SSE	0.52	34.47	338 NNW	31.94	-12.98
1993 2 24	21 48	340 NNW	0.67	29.56	339 NNW	27.57	-10.65
1993 2 24	23 48	269 W	0.87	10.07	8 N	9.97	1.39
Average		288 WNW		23.83		-0.37	1.29
Maximum				39.87			
1993 2 25	1 48	186 S	0.67	27.62	151 SSE	-24.12	13.46
1993 2 25	3 48	171 S	0.74	30.37	157 SSE	-27.92	11.96
1993 2 25	5 48	165 SSE	0.82	5.80	150 SSE	-5.01	2.92
1993 2 25	7 48	165 SSE	0.71	23.99	345 NNW	23.19	-6.14
1993 2 25	9 48	335 NNW	0.71	27.38	341 NNW	25.95	-8.74
1993 2 25	11 48	193 SSW	0.50	6.61	26 NNE	5.92	2.94
1993 2 25	13 48	313 NW	0.79	23.68	150 SSE	-20.51	11.84
1993 2 25	15 48	306 NW	0.82	23.01	150 SSE	-19.98	11.41
1993 2 25	17 48	291 WNW	1.00	7.97	148 SSE	-6.77	4.21
1993 2 25	19 48	342 NNW	0.58	30.51	341 NNW	28.90	-9.78
1993 2 25	21 48	335 NNW	0.50	30.67	340 NNW	28.88	-10.31
1993 2 25	23 48	341 NNW	0.71	14.26	2 N	14.25	0.54
Average		262 W		20.99		1.90	2.03
Maximum				30.67			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Ig. Piandang (Coast is 343 deg. from North)
 Month and Year: February 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 2 26	1 48	329 NNW	0.71	16.85	140 SE	-12.87	10.88
1993 2 26	3 48	317 NW	0.67	24.90	145 SE	-20.52	14.11
1993 2 26	5 48	304 NW	0.82	9.11	154 SSE	-8.18	4.02
1993 2 26	7 48	303 NNW	0.65	22.68	333 NNW	20.26	-10.20
1993 2 26	9 48	200 SSW	0.94	36.28	340 NNW	34.20	-12.12
1993 2 26	11 48	308 NW	0.87	14.16	3 N	14.14	0.65
1993 2 26	13 48	339 NNW	0.77	23.94	156 SSE	-21.90	9.67
1993 2 26	15 48	330 NNW	0.71	33.16	158 SSE	-30.74	12.44
1993 2 26	17 48	337 NNW	0.76	18.16	171 S	-17.93	2.91
1993 2 26	19 48	273 W	1.00	25.20	336 NNW	22.96	-10.39
1993 2 26	21 48	331 NNW	0.69	39.73	337 NNW	36.70	-15.21
1993 2 26	23 48	319 NW	0.65	26.90	350 N	26.47	-4.77
Average		308 NW		24.26		3.55	0.17
Maximum				39.73			
1993 2 27	1 48	313 NW	0.58	14.80	144 SE	-11.99	8.69
1993 2 27	3 48	339 NNW	0.73	35.79	159 SSE	-33.52	12.53
1993 2 27	5 48	325 NW	0.91	20.09	168 SSE	-19.65	4.17
1993 2 27	7 48	320 NW	0.63	11.51	344 NNW	11.08	-3.13
1993 2 27	9 48	167 SSE	0.71	32.92	338 NNW	30.54	-12.29
1993 2 27	11 48	326 NW	0.61	17.53	350 N	17.27	-3.04
1993 2 27	13 48	306 NW	0.71	16.52	152 SSE	-14.58	7.79
1993 2 27	15 48	327 NNW	0.62	31.19	165 SSE	-30.09	8.23
1993 2 27	17 48	308 NW	0.80	24.63	171 S	-24.34	3.77
1993 2 27	19 48	302 NNW	0.87	5.75	320 NW	4.43	-3.66
1993 2 27	21 48	168 SSE	0.87	33.27	345 NNW	32.09	-8.78
1993 2 27	23 48	321 NW	0.77	30.81	343 NNW	29.46	-9.02
Average		294 NNW		22.90		-0.77	0.44
Maximum				35.79			
1993 2 28	1 48	326 NW	0.67	4.14	1 N	4.14	0.10
1993 2 28	3 48	315 NW	0.79	26.05	165 SSE	-25.11	6.92
1993 2 28	5 48	310 NW	0.71	20.95	171 S	-20.67	3.43
1993 2 28	7 48	282 NNW	0.89	5.77	325 NW	4.70	-3.35
1993 2 28	9 48	310 NW	0.84	27.83	334 NNW	25.02	-12.19
1993 2 28	11 48	307 NW	0.71	22.80	341 NNW	21.52	-7.53
1993 2 28	13 48	318 NW	0.79	3.34	136 SE	-2.38	2.33
1993 2 28	15 48	318 NW	0.77	26.14	168 SSE	-25.60	5.27
1993 2 28	17 48	317 NW	0.79	22.36	174 S	-22.23	2.45
1993 2 28	19 48	302 NNW	0.77	4.43	215 SW	-3.62	-2.55
1993 2 28	21 48	330 NNW	0.77	27.77	336 NNW	25.36	-11.31
1993 2 28	23 48	341 NNW	0.62	27.42	334 NNW	24.71	-11.89
Average		315 NW		18.25		0.49	-2.36
Maximum				27.83			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: February 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 1	1 48	262 W	0.89	11.89	344 NNW	11.43	-3.28
1993 3 1	3 48	326 NW	0.71	15.58	168 SSE	-15.22	3.32
1993 3 1	5 48	339 NNW	0.79	20.83	168 SSE	-20.35	4.45
1993 3 1	7 48	304 NW	0.89	6.09	197 SSW	-5.83	-1.74
1993 3 1	9 48	318 NW	0.87	18.74	334 NNW	16.79	-8.33
1993 3 1	11 48	307 NW	0.71	21.09	338 NNW	19.57	-7.85
1993 3 1	13 48	301 WNW	0.76	5.30	358 N	5.30	-0.17
1993 3 1	15 48	311 NW	0.77	17.32	169 S	-17.02	3.22
1993 3 1	17 48	302 WNW	0.76	18.67	169 S	-18.32	3.56
1993 3 1	19 48	299 WNW	0.71	8.06	197 SSW	-7.70	-2.37
1993 3 1	21 48	306 NW	0.71	17.03	332 NNW	15.10	-7.88
1993 3 1	23 48	300 WNW	0.77	22.54	334 NNW	20.24	-9.92
Average		306 NW		15.26		0.33	-2.25
Maximum				22.54			
1993 3 2	1 48	310 NW	0.65	19.34	338 NNW	17.89	-7.36
1993 3 2	3 48	270 W	0.63	2.82	266 W	-0.19	-2.81
1993 3 2	5 48	312 NW	0.58	10.89	177 S	-10.88	0.54
1993 3 2	7 48	283 WNW	0.63	4.51	189 S	-4.46	-0.72
1993 3 2	9 48	285 WNW	0.77	14.00	329 NNW	11.95	-7.30
1993 3 2	11 48	302 WNW	0.63	14.38	324 NW	11.60	-8.50
1993 3 2	13 48	295 WNW	0.45	9.17	333 NNW	8.20	-4.10
1993 3 2	15 48	310 NW	0.58	7.32	183 S	-7.31	-0.40
1993 3 2	17 48	280 W	0.71	14.49	184 S	-14.47	-0.89
1993 3 2	19 48	253 WSW	0.58	6.28	181 S	-6.28	-0.06
1993 3 2	21 48	280 W	0.77	7.97	317 NW	5.79	-5.48
1993 3 2	23 48	326 NW	1.00	14.18	324 NW	11.53	-8.25
Average		292 WNW		10.45		1.95	-3.78
Maximum				19.34			
1993 3 3	1 48	333 NNW	0.53	17.16	332 NNW	15.16	-8.03
1993 3 3	3 48	287 WNW	0.71	5.89	315 NW	4.13	-4.20
1993 3 3	5 48	290 WNW	0.71	3.22	176 S	-3.22	0.20
1993 3 3	7 48	282 WNW	0.71	6.59	167 SSE	-6.42	1.51
1993 3 3	9 48	303 WNW	0.98	0.99	35 NE	0.81	0.57
Average		299 WNW		6.77		2.09	-1.99
Maximum				17.16			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: March 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 3	11 48	255 WSW	0.58	9.15	353 N	9.09	-1.07
1993 3 3	13 48	275 W	0.82	10.94	338 NNW	10.17	-4.04
1993 3 3	15 48	232 SW	0.82	7.22	323 NW	5.79	-4.32
1993 3 3	17 48	234 SW	0.87	6.45	203 SSW	-5.94	-2.51
1993 3 3	19 48	194 SSW	0.87	12.89	170 S	-12.69	2.24
1993 3 3	21 48	218 SW	0.89	10.72	185 S	-10.69	-0.86
1993 3 3	23 48	243 WSW	0.71	1.56	317 NW	1.14	-1.06
Average		236 SW		8.42		-0.45	-1.66
Maximum				12.89			
1993 3 4	1 48	246 WSW	0.82	12.65	348 NNW	12.38	-2.57
1993 3 4	3 48	242 WSW	1.00	13.58	340 NNW	12.76	-4.65
1993 3 4	5 48	243 WSW	0.71	6.15	22 NNE	5.69	2.32
1993 3 4	7 48	279 W	0.58	10.59	136 SE	-7.58	7.40
1993 3 4	9 48	318 NW	0.77	15.57	149 SSE	-13.28	8.14
1993 3 4	11 48	304 NW	0.58	8.16	151 SSE	-7.14	3.95
1993 3 4	13 48	292 WNW	0.58	7.65	333 NNW	6.83	-3.45
1993 3 4	15 48	163 SSE	0.87	19.08	332 NNW	16.87	-8.91
1993 3 4	17 48	314 NW	0.82	14.19	331 NNW	12.41	-6.89
1993 3 4	19 48	298 WNW	0.50	3.22	167 SSE	-3.13	0.75
1993 3 4	21 48	333 NNW	0.82	17.98	164 SSE	-17.26	5.03
1993 3 4	23 48	303 WNW	0.87	13.79	173 S	-13.70	1.64
Average		278 W		11.88		0.40	0.23
Maximum				19.08			
1993 3 5	1 48	286 WNW	0.45	5.96	304 NW	3.32	-4.95
1993 3 5	3 48	320 NW	0.91	22.29	336 NNW	20.29	-9.23
1993 3 5	5 48	300 WNW	0.71	24.38	335 NNW	22.09	-10.32
1993 3 5	7 48	298 WNW	0.76	5.59	30 NNE	4.86	2.76
1993 3 5	9 48	317 NW	0.71	19.58	154 SSE	-17.62	8.53
1993 3 5	11 48	325 NW	0.77	23.39	156 SSE	-21.35	9.57
1993 3 5	13 48	300 WNW	0.58	6.22	160 SSE	-5.84	2.14
1993 3 5	15 48	287 WNW	0.76	20.81	336 NNW	18.96	-8.57
1993 3 5	17 48	164 SSE	0.80	26.28	332 NNW	23.28	-12.19
1993 3 5	19 48	286 WNW	0.47	8.12	341 NNW	7.68	-2.64
1993 3 5	21 48	313 NW	0.67	18.71	157 SSE	-17.24	7.26
1993 3 5	23 48	290 WNW	0.82	28.48	159 SSE	-26.51	10.42
Average		291 WNW		17.48		0.99	-0.60
Maximum				28.48			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: March 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 6	1 48	295 WNW	0.60	12.30	168 SSE	-12.04	2.50
1993 3 6	3 48	289 WNW	0.87	22.74	331 NNW	19.98	-10.86
1993 3 6	5 48	319 NW	0.71	33.84	331 NNW	29.69	-16.23
1993 3 6	7 48	313 NW	0.84	17.39	345 NNW	16.79	-4.51
1993 3 6	9 48	316 NW	0.52	19.10	148 SSE	-16.12	10.25
1993 3 6	11 48	334 NNW	0.78	37.78	156 SSE	-34.60	15.16
1993 3 6	13 48	297 WNW	0.71	20.06	158 SSE	-18.54	7.66
1993 3 6	15 48	289 WNW	0.41	13.11	341 NNW	12.38	-4.31
1993 3 6	17 48	342 NNW	0.76	36.31	333 NNW	32.37	-16.43
1993 3 6	19 48	310 NW	0.64	27.05	345 NNW	26.16	-6.90
1993 3 6	21 48	333 NNW	0.82	10.75	123 ESE	-5.86	9.01
1993 3 6	23 48	165 SSE	0.68	39.66	157 SSE	-36.52	15.47
Average		300 WNW		24.17		1.14	0.07
Maximum				39.66			
1993 3 7	1 48	334 NNW	0.83	26.89	159 SSE	-25.08	9.70
1993 3 7	3 48	302 WNW	0.58	11.23	346 NNW	10.92	-2.64
1993 3 7	5 48	329 NNW	0.64	39.34	331 NNW	34.52	-18.88
1993 3 7	7 48	319 NW	0.75	27.88	342 NNW	26.55	-8.50
1993 3 7	9 48	311 NW	0.65	14.14	116 ESE	-6.13	12.74
1993 3 7	11 48	167 SSE	0.77	48.75	156 SSE	-44.38	20.17
1993 3 7	13 48	334 NNW	0.78	35.11	158 SSE	-32.60	13.02
1993 3 7	15 48	247 WSW	0.63	4.09	96 E	-0.41	4.06
1993 3 7	17 48	333 NNW	0.64	39.00	334 NNW	35.18	-16.84
1993 3 7	19 48	178 S	0.66	38.59	337 NNW	35.61	-14.88
1993 3 7	21 48	277 W	0.89	11.03	32 NNE	9.39	5.78
1993 3 7	23 48	341 NNW	0.82	40.54	157 SSE	-37.20	16.13
Average		289 WNW		28.05		0.53	1.66
Maximum				48.75			
1993 3 8	1 48	166 SSE	0.66	38.39	157 SSE	-35.38	14.91
1993 3 8	3 48	303 WNW	0.82	6.96	169 S	-6.82	1.38
1993 3 8	5 48	334 NNW	0.89	39.72	337 NNW	36.48	-15.72
1993 3 8	7 48	319 NW	0.83	39.16	337 NNW	36.06	-15.27
1993 3 8	9 48	258 WSW	1.00	8.93	46 NE	6.15	6.47
1993 3 8	11 48	329 NNW	0.58	43.78	154 SSE	-39.31	19.27
1993 3 8	13 48	341 NNW	0.60	43.20	159 SSE	-40.29	15.59
1993 3 8	15 48	322 NW	0.63	25.18	151 SSE	-22.11	12.04
1993 3 8	17 48	301 WNW	0.71	33.83	339 NNW	31.67	-11.88
1993 3 8	19 48	333 NNW	0.81	47.20	332 NNW	41.73	-22.05
1993 3 8	21 48	300 WNW	0.66	29.31	351 N	28.96	-4.51
1993 3 8	23 48	333 NNW	0.63	30.43	151 SSE	-26.59	14.80
Average		303 WNW		32.17		0.88	1.25
Maximum				47.20			
1993 3 9	1 48	340 NNW	0.53	53.70	158 SSE	-49.86	19.95
1993 3 9	3 48	334 NNW	0.65	22.03	156 SSE	-20.15	8.88
1993 3 9	5 48	302 WNW	0.79	33.00	341 NNW	31.12	-10.97
1993 3 9	7 48	321 NW	0.65	54.06	331 NNW	47.36	-26.05
1993 3 9	9 48	309 NW	0.55	16.53	3 N	16.51	0.92
1993 3 9	11 48	323 NW	0.80	36.68	142 SE	-28.89	22.59
1993 3 9	13 48	339 NNW	0.63	56.67	158 SSE	-52.50	21.34
1993 3 9	15 48	333 NNW	0.74	34.60	154 SSE	-31.01	15.34
1993 3 9	17 48	303 WNW	0.76	26.04	348 NNW	25.48	-5.35
1993 3 9	19 48	320 NW	0.76	52.26	333 NNW	46.67	-23.53
1993 3 9	21 48	336 NNW	0.64	34.03	343 NNW	32.63	-9.67
1993 3 9	23 48	312 NW	0.63	17.60	129 SE	-11.14	13.63
Average		323 NW		36.43		0.52	2.26
Maximum				56.67			
1993 3 10	1 48	337 NNW	0.61	58.66	159 SSE	-54.58	21.50
1993 3 10	3 48	179 S	0.73	31.10	160 SSE	-29.18	10.74
1993 3 10	5 48	185 S	0.65	16.96	344 NNW	16.34	-4.54
1993 3 10	7 48	169 S	0.66	52.83	333 NNW	47.00	-24.13
1993 3 10	9 48	189 S	0.95	32.93	343 NNW	31.53	-9.48
1993 3 10	11 48	340 NNW	0.62	24.38	136 SE	-17.60	16.87
1993 3 10	13 48	337 NNW	0.60	60.38	158 SSE	-56.08	22.39
1993 3 10	15 48	339 NNW	0.72	38.72	157 SSE	-35.69	15.01
1993 3 10	17 48	254 WSW	0.82	6.64	74 ENE	1.81	6.38
1993 3 10	19 48	342 NNW	0.71	47.23	336 NNW	43.29	-18.87
1993 3 10	21 48	338 NNW	0.78	44.06	338 NNW	40.73	-16.81
1993 3 10	23 48	326 NW	0.58	9.16	44 NE	6.57	6.38
Average		278 W		35.25		-0.49	2.12
Maximum				60.38			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: March 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 11	1 48	336 NNW	0.57	48.62	157 SSE	-44.59	19.37
1993 3 11	3 48	342 NNW	0.71	39.82	157 SSE	-36.79	15.24
1993 3 11	5 48	241 WSW	0.71	4.26	14 NNE	4.14	1.01
1993 3 11	7 48	326 NW	0.65	42.78	336 NNW	39.00	-17.56
1993 3 11	9 48	335 NNW	0.76	44.89	339 NNW	41.83	-16.30
1993 3 11	11 48	309 NW	0.65	9.76	58 ENE	5.19	8.27
1993 3 11	13 48	168 SSE	0.67	47.30	157 SSE	-43.58	18.38
1993 3 11	15 48	332 NNW	0.67	46.61	160 SSE	-43.68	16.26
1993 3 11	17 48	325 NW	0.53	13.17	144 SE	-10.67	7.72
1993 3 11	19 48	280 W	0.87	38.67	341 NNW	36.56	-12.60
1993 3 11	21 48	316 NW	0.80	47.02	333 NNW	41.93	-21.27
1993 3 11	23 48	303 NNW	0.82	17.61	3 N	17.59	0.82
Average		301 NNW		33.38		0.58	1.61
Maximum				48.62			
1993 3 12	1 48	339 NNW	0.50	27.15	152 SSE	-23.89	12.90
1993 3 12	3 48	338 NNW	0.64	46.53	156 SSE	-42.62	18.66
1993 3 12	5 48	171 S	0.85	19.31	158 SSE	-17.93	7.18
1993 3 12	7 48	306 NW	0.89	27.07	334 NNW	24.24	-12.05
1993 3 12	9 48	327 NNW	0.77	46.10	335 NNW	41.86	-19.33
1993 3 12	11 48	336 NNW	0.87	16.51	343 NNW	15.75	-4.96
1993 3 12	13 48	185 S	0.85	27.92	156 SSE	-25.45	11.50
1993 3 12	15 48	163 SSE	0.60	49.05	162 SSE	-46.57	15.40
1993 3 12	17 48	263 W	0.93	23.25	164 SSE	-22.30	6.58
1993 3 12	19 48	290 NNW	0.65	20.90	2 N	20.88	0.89
1993 3 12	21 48	343 NNW	0.82	45.40	334 NNW	40.87	-19.77
1993 3 12	23 48	299 NNW	0.91	30.01	345 NNW	28.94	-7.96
Average		280 W		31.60		-0.52	0.75
Maximum				49.05			
1993 3 13	1 48	323 NW	0.58	13.37	128 SE	-8.16	10.59
1993 3 13	3 48	177 S	0.75	40.32	157 SSE	-37.01	16.00
1993 3 13	5 48	171 S	0.87	24.99	159 SSE	-23.28	9.09
1993 3 13	7 48	315 NW	0.58	14.01	358 N	14.00	-0.50
1993 3 13	9 48	336 NNW	0.82	36.13	334 NNW	32.51	-15.76
1993 3 13	11 48	331 NNW	1.00	26.49	346 NNW	25.73	-6.29
1993 3 13	13 48	279 W	0.82	11.36	131 SE	-7.45	8.58
1993 3 13	15 48	333 NNW	0.85	35.09	162 SSE	-33.33	10.97
1993 3 13	17 48	330 NNW	0.94	25.29	161 SSE	-23.89	8.30
1993 3 13	19 48	262 W	0.89	11.51	28 NNE	10.19	5.37
1993 3 13	21 48	192 SSW	0.90	31.89	340 NNW	29.93	-11.01
1993 3 13	23 48	170 S	0.77	29.82	343 NNW	28.54	-8.65
Average		268 W		25.02		0.65	2.22
Maximum				40.32			
1993 3 14	1 48	301 NNW	0.85	10.00	15 NNE	9.67	2.57
1993 3 14	3 48	328 NNW	0.79	26.17	156 SSE	-23.86	10.73
1993 3 14	5 48	340 NNW	0.88	26.06	159 SSE	-24.25	9.54
1993 3 14	7 48	314 NW	0.65	9.27	160 SSE	-8.72	3.16
1993 3 14	9 48	333 NNW	0.79	25.07	336 NNW	22.86	-10.28
1993 3 14	11 48	167 SSE	0.82	27.44	337 NNW	25.18	-10.91
1993 3 14	13 48	252 WSW	0.63	5.99	23 NNE	5.51	2.33
1993 3 14	15 48	244 WSW	0.87	25.30	165 SSE	-24.44	6.54
1993 3 14	17 48	255 WSW	0.94	22.72	164 SSE	-21.88	6.11
1993 3 14	19 48	273 W	0.77	7.64	142 SE	-6.01	4.72
1993 3 14	21 48	195 SSW	1.00	22.44	340 NNW	21.12	-7.58
1993 3 14	23 48	252 WSW	0.89	21.13	343 NNW	20.24	-6.09
Average		271 W		19.10		-0.38	0.90
Maximum				27.44			
1993 3 15	1 48	309 NW	0.85	10.90	3 N	10.89	0.48
1993 3 15	3 48	311 NW	0.87	14.02	143 SE	-11.15	8.51
1993 3 15	5 48	332 NNW	0.77	19.46	153 SSE	-17.31	8.90
1993 3 15	7 48	201 SSW	0.60	7.38	153 SSE	-6.58	3.35
1993 3 15	9 48	204 SSW	0.71	12.29	346 NNW	11.94	-2.89
1993 3 15	11 48	222 SW	0.71	17.48	342 NNW	16.66	-5.31
1993 3 15	13 48	250 WSW	0.82	8.21	8 N	8.13	1.16
1993 3 15	15 48	177 S	0.71	11.77	157 SSE	-10.87	4.51
1993 3 15	17 48	337 NNW	0.79	17.96	161 SSE	-16.96	5.90
1993 3 15	19 48	328 NNW	1.00	10.58	154 SSE	-9.52	4.62
1993 3 15	21 48	281 W	0.63	13.86	348 NNW	13.57	-2.82
1993 3 15	23 48	185 S	0.58	16.86	335 NNW	15.32	-7.04
Average		261 W		13.40		0.34	1.61
Maximum				19.46			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: March 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 16	1 48	178 S	0.71	16.39	334 NNW	14.71	-7.23
1993 3 16	3 48	294 WNW	0.91	13.32	348 NNW	13.02	-2.80
1993 3 16	5 48	250 WSW	0.65	11.05	80 E	1.86	10.89
1993 3 16	7 48	166 SSE	0.71	6.74	131 SE	-4.43	5.08
1993 3 16	9 48	265 W	0.87	3.85	337 NNW	3.55	-1.48
1993 3 16	11 48	323 NW	0.63	7.04	343 NNW	6.74	-2.04
1993 3 16	13 48	291 WNW	0.71	7.20	344 NNW	6.92	-2.01
1993 3 16	15 48	182 S	0.87	0.41	129 SE	-0.26	0.32
1993 3 16	17 48	301 WNW	0.87	7.63	169 S	-7.49	1.50
1993 3 16	19 48	321 NW	0.89	12.71	161 SSE	-12.00	4.21
1993 3 16	21 48	303 WNW	0.77	7.87	152 SSE	-6.92	3.75
1993 3 16	23 48	300 WNW	0.71	6.64	323 NW	5.27	-4.04
Average		265 W		8.40		1.75	0.51
Maximum				16.39			
1993 3 17	1 48	192 SSW	0.82	8.36	335 NNW	7.57	-3.54
1993 3 17	3 48	257 WSW	0.71	7.04	27 NNE	6.27	3.21
1993 3 17	5 48	280 W	0.77	0.70	343 NNW	0.67	-0.21
1993 3 17	7 48	309 NW	1.00	8.90	184 S	-8.88	-0.67
1993 3 17	9 48	290 WNW	0.77	6.37	170 S	-6.27	1.15
1993 3 17	11 48	287 WNW	0.58	2.05	65 ENE	0.88	1.85
1993 3 17	13 48	294 WNW	0.63	11.94	357 N	11.92	-0.67
1993 3 17	15 48	293 WNW	0.82	13.01	345 NNW	12.57	-3.37
1993 3 17	17 48	291 WNW	0.53	6.88	351 N	6.80	-1.06
1993 3 17	19 48	270 W	0.71	5.55	143 SE	-4.46	3.31
1993 3 17	21 48	312 NW	0.71	10.61	163 SSE	-10.16	3.05
1993 3 17	23 48	309 NW	0.71	9.83	137 SE	-7.25	6.64
Average		282 WNW		7.60		0.80	0.81
Maximum				13.01			
1993 3 18	1 48	274 W	0.50	6.37	32 NNE	5.42	3.35
1993 3 18	3 48	288 WNW	0.77	14.72	353 N	14.63	-1.67
1993 3 18	5 48	289 WNW	0.63	11.90	20 NNE	11.17	4.10
1993 3 18	7 48	311 NW	0.71	7.04	93 E	-0.37	7.03
1993 3 18	9 48	320 NW	0.63	16.17	142 SE	-12.81	9.87
1993 3 18	11 48	315 NW	0.77	14.12	151 SSE	-12.41	6.74
1993 3 18	13 48	286 WNW	0.71	1.21	335 NNW	1.10	-0.50
1993 3 18	15 48	302 WNW	0.63	15.94	337 NNW	14.66	-6.24
1993 3 18	17 48	302 WNW	0.71	16.75	332 NNW	14.80	-7.84
1993 3 18	19 48	181 S	0.89	3.65	300 WNW	1.82	-3.16
1993 3 18	21 48	338 NNW	0.77	16.33	145 SE	-13.38	9.37
1993 3 18	23 48	331 NNW	0.58	19.63	142 SE	-15.46	12.09
Average		295 WNW		11.99		0.76	2.76
Maximum				19.63			
1993 3 19	1 48	246 WSW	1.00	7.19	88 E	0.21	7.19
1993 3 19	3 48	288 WNW	0.65	18.58	2 N	18.56	0.68
1993 3 19	5 48	323 NW	0.87	20.00	349 N	19.60	-3.98
1993 3 19	7 48	250 WSW	0.71	7.04	41 NE	5.31	4.62
1993 3 19	9 48	304 NW	0.71	20.24	140 SE	-15.55	12.95
1993 3 19	11 48	329 NNW	0.63	24.02	154 SSE	-21.55	10.61
1993 3 19	13 48	320 NW	0.71	9.98	148 SSE	-8.46	5.30
1993 3 19	15 48	340 NNW	0.71	14.50	347 NNW	14.12	-3.33
1993 3 19	17 48	320 NW	0.71	22.87	338 NNW	21.14	-8.72
1993 3 19	19 48	327 NNW	0.87	11.66	344 NNW	11.19	-3.27
1993 3 19	21 48	332 NNW	0.87	16.20	145 SE	-13.33	9.19
1993 3 19	23 48	335 NNW	0.67	26.06	151 SSE	-22.75	12.71
Average		310 NW		16.53		0.71	3.66
Maximum				26.06			
1993 3 20	1 48	306 NW	0.91	16.33	131 SE	-10.69	12.35
1993 3 20	3 48	281 W	0.63	14.94	32 NNE	12.62	7.99
1993 3 20	5 48	215 SW	0.76	20.52	348 NNW	20.06	-4.32
1993 3 20	7 48	286 WNW	0.82	11.47	34 NE	9.49	6.45
1993 3 20	9 48	319 NW	0.71	21.51	146 SE	-17.91	11.91
1993 3 20	11 48	336 NNW	0.71	26.52	157 SSE	-24.45	10.27
1993 3 20	13 48	182 S	0.75	21.50	161 SSE	-20.35	6.94
1993 3 20	15 48	183 S	0.65	12.30	3 N	12.28	0.70
1993 3 20	17 48	329 NNW	0.77	26.60	338 NNW	24.64	-10.03
1993 3 20	19 48	171 S	0.79	16.98	343 NNW	16.21	-5.05
1993 3 20	21 48	342 NNW	0.63	12.44	136 SE	-8.99	8.59
1993 3 20	23 48	336 NNW	0.67	28.22	155 SSE	-25.50	12.08
Average		274 W		19.11		-1.05	4.82
Maximum				28.22			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: March 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 21	1 48	325 NW	0.79	23.78	150 SSE	-20.64	11.81
1993 3 21	3 48	301 WNW	0.71	9.66	25 NNE	8.77	4.04
1993 3 21	5 48	191 S	0.91	28.16	347 NNW	27.47	-6.19
1993 3 21	7 48	323 NW	0.52	17.53	4 N	17.49	1.14
1993 3 21	9 48	302 WNW	0.58	12.66	123 ESE	-6.83	10.66
1993 3 21	11 48	331 NNW	0.64	33.52	153 SSE	-29.84	15.27
1993 3 21	13 48	331 NNW	0.79	23.66	152 SSE	-20.95	10.98
1993 3 21	15 48	255 WSW	0.58	7.70	37 NE	6.11	4.68
1993 3 21	17 48	177 S	0.66	29.31	343 NNW	27.97	-8.76
1993 3 21	19 48	325 NW	0.79	27.70	347 NNW	26.94	-6.45
1993 3 21	21 48	304 NW	1.00	6.88	26 NNE	6.18	3.02
1993 3 21	23 48	165 SSE	0.74	29.00	153 SSE	-25.89	13.08
Average		278 W		20.80		1.40	4.44
Maximum				33.52			
1993 3 22	1 48	340 NNW	0.59	26.38	151 SSE	-23.05	12.85
1993 3 22	3 48	293 WNW	0.82	6.59	88 E	0.24	6.59
1993 3 22	5 48	343 NNW	0.88	27.91	339 NNW	26.01	-10.12
1993 3 22	7 48	325 NW	0.77	23.93	352 N	23.71	-3.29
1993 3 22	9 48	265 W	0.82	11.60	82 E	1.53	11.50
1993 3 22	11 48	335 NNW	0.75	33.51	149 SSE	-28.65	17.37
1993 3 22	13 48	325 NW	0.82	30.45	150 SSE	-26.39	15.18
1993 3 22	15 48	334 NNW	0.28	9.00	117 ESE	-4.06	8.03
1993 3 22	17 48	338 NNW	0.71	33.44	338 NNW	30.98	-12.59
1993 3 22	19 48	323 NW	0.67	34.18	339 NNW	31.97	-12.09
1993 3 22	21 48	323 NW	0.61	13.53	11 N	13.28	2.54
1993 3 22	23 48	184 S	0.79	23.45	158 SSE	-21.69	8.92
Average		311 NW		22.83		1.99	3.74
Maximum				34.18			
1993 3 23	1 48	340 NNW	0.65	31.72	153 SSE	-28.27	14.39
1993 3 23	3 48	314 NW	0.45	12.43	141 SE	-9.72	7.75
1993 3 23	5 48	342 NNW	0.67	28.40	342 NNW	27.08	-8.55
1993 3 23	7 48	327 NNW	0.49	35.28	338 NNW	32.66	-13.33
1993 3 23	9 48	197 SSW	1.00	12.42	23 NNE	11.40	4.93
1993 3 23	11 48	333 NNW	0.61	24.17	151 SSE	-21.06	11.86
1993 3 23	13 48	334 NNW	0.65	35.31	157 SSE	-32.46	13.91
1993 3 23	15 48	307 NW	0.62	16.58	143 SE	-13.24	9.99
1993 3 23	17 48	320 NW	0.77	27.94	336 NNW	25.57	-11.27
1993 3 23	19 48	169 S	0.72	39.90	333 NNW	35.43	-18.35
1993 3 23	21 48	325 NW	0.87	19.72	342 NNW	18.78	-6.01
1993 3 23	23 48	169 S	0.63	16.82	147 SSE	-14.13	9.12
Average		290 WNW		25.06		2.67	1.20
Maximum				39.90			
1993 3 24	1 48	337 NNW	0.69	35.13	157 SSE	-32.39	13.60
1993 3 24	3 48	329 NNW	0.61	18.23	161 SSE	-17.28	5.82
1993 3 24	5 48	332 NNW	0.61	23.53	332 NNW	20.76	-11.07
1993 3 24	7 48	326 NW	0.77	37.46	334 NNW	33.63	-16.49
1993 3 24	9 48	327 NNW	0.50	15.36	350 N	15.15	-2.54
1993 3 24	11 48	319 NW	0.71	21.09	141 SE	-16.32	13.35
1993 3 24	13 48	330 NNW	0.60	34.59	155 SSE	-31.30	14.72
1993 3 24	15 48	318 NW	0.71	22.36	154 SSE	-20.18	9.63
1993 3 24	17 48	323 NW	0.58	19.94	333 NNW	17.83	-8.94
1993 3 24	19 48	339 NNW	0.75	43.28	331 NNW	37.98	-20.74
1993 3 24	21 48	337 NNW	0.74	24.79	343 NNW	23.72	-7.18
1993 3 24	23 48	303 WNW	0.63	7.18	94 E	-0.47	7.16
Average		327 NNW		25.25		2.59	-0.22
Maximum				43.28			
1993 3 25	1 48	342 NNW	0.69	37.07	156 SSE	-33.89	15.03
1993 3 25	3 48	321 NW	0.71	20.61	153 SSE	-18.39	9.31
1993 3 25	5 48	302 WNW	0.50	14.68	354 N	14.61	-1.45
1993 3 25	7 48	335 NNW	0.75	36.70	335 NNW	33.25	-15.54
1993 3 25	9 48	287 WNW	0.91	23.42	345 NNW	22.65	-5.95
1993 3 25	11 48	312 NW	0.71	15.56	127 SE	-9.32	12.46
1993 3 25	13 48	335 NNW	0.63	39.46	155 SSE	-35.66	16.89
1993 3 25	15 48	321 NW	0.71	25.65	151 SSE	-22.41	12.48
1993 3 25	17 48	293 WNW	0.41	10.96	3 N	10.94	0.61
1993 3 25	19 48	339 NNW	0.71	41.43	336 NNW	37.92	-16.70
1993 3 25	21 48	340 NNW	0.88	26.59	344 NNW	25.51	-7.51
1993 3 25	23 48	325 NW	0.52	8.98	91 E	-0.09	8.98
Average		321 NW		25.09		2.09	2.38
Maximum				41.43			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: March 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 26	1 48	326 NW	0.71	34.79	154 SSE	-31.30	15.20
1993 3 26	3 48	332 NNW	0.75	27.05	157 SSE	-24.99	10.36
1993 3 26	5 48	305 NW	0.53	3.45	185 S	-3.43	-0.30
1993 3 26	7 48	326 NW	0.73	35.74	333 NNW	31.96	-16.00
1993 3 26	9 48	190 S	0.84	26.76	340 NNW	25.13	-9.20
1993 3 26	11 48	165 SSE	0.53	7.62	88 E	0.20	7.62
1993 3 26	13 48	336 NNW	0.81	39.34	158 SSE	-36.47	14.77
1993 3 26	15 48	172 S	0.87	28.33	160 SSE	-26.69	9.49
1993 3 26	17 48	271 W	0.63	3.18	57 ENE	1.73	2.66
1993 3 26	19 48	173 S	0.83	38.09	339 NNW	35.59	-13.57
1993 3 26	21 48	334 NNW	0.83	36.99	336 NNW	33.74	-15.16
1993 3 26	23 48	299 WNW	0.77	10.48	11 N	10.30	1.96
Average		269 W		24.32		1.31	0.65
Maximum				39.34			
1993 3 27	1 48	324 NW	0.84	31.81	154 SSE	-28.69	13.73
1993 3 27	3 48	340 NNW	0.65	30.50	158 SSE	-28.19	11.64
1993 3 27	5 48	307 NW	0.65	8.13	129 SE	-5.09	6.34
1993 3 27	7 48	342 NNW	0.71	29.83	338 NNW	27.66	-11.17
1993 3 27	9 48	318 NW	0.84	31.14	338 NNW	28.80	-11.85
1993 3 27	11 48	288 WNW	0.53	10.01	30 NNE	8.68	4.99
1993 3 27	13 48	333 NNW	0.68	28.66	156 SSE	-26.10	11.85
1993 3 27	15 48	318 NW	0.88	26.18	158 SSE	-24.31	9.70
1993 3 27	17 48	296 WNW	0.58	9.60	160 SSE	-9.01	3.32
1993 3 27	19 48	316 NW	0.79	29.57	343 NNW	28.24	-8.79
1993 3 27	21 48	290 WNW	0.75	32.27	339 NNW	30.15	-11.51
1993 3 27	23 48	290 WNW	0.61	17.74	352 N	17.55	-2.56
Average		314 NW		23.79		1.64	1.31
Maximum				32.27			
1993 3 28	1 48	317 NW	0.67	20.00	150 SSE	-17.32	10.00
1993 3 28	3 48	308 NW	0.68	28.24	154 SSE	-25.33	12.49
1993 3 28	5 48	306 NW	0.63	12.52	146 SE	-10.41	6.96
1993 3 28	7 48	306 NW	0.85	24.25	342 NNW	23.12	-7.31
1993 3 28	9 48	312 NW	0.75	34.64	336 NNW	31.76	-13.83
1993 3 28	11 48	300 WNW	0.58	12.77	1 N	12.77	0.32
1993 3 28	13 48	316 NW	0.61	18.25	150 SSE	-15.86	9.03
1993 3 28	15 48	187 S	0.90	28.17	163 SSE	-26.91	8.33
1993 3 28	17 48	288 WNW	0.53	13.19	173 S	-13.11	1.52
1993 3 28	19 48	304 NW	0.35	15.42	332 NNW	13.66	-7.15
1993 3 28	21 48	302 WNW	0.43	33.29	331 NNW	29.24	-15.92
1993 3 28	23 48	302 WNW	0.36	20.80	337 NNW	19.20	-8.02
Average		296 WNW		21.80		1.73	-0.30
Maximum				34.64			
1993 3 29	1 48	299 WNW	0.37	8.49	134 SE	-5.89	6.12
1993 3 29	3 48	301 WNW	0.48	27.94	155 SSE	-25.23	11.98
1993 3 29	5 48	301 WNW	0.37	15.56	149 SSE	-13.40	7.91
1993 3 29	7 48	289 WNW	0.31	16.77	350 N	16.52	-2.89
1993 3 29	9 48	302 WNW	0.59	27.17	340 NNW	25.55	-9.25
1993 3 29	11 48	296 WNW	0.43	16.17	348 NNW	15.80	-3.45
1993 3 29	13 48	303 WNW	0.37	10.69	140 SE	-8.15	6.92
1993 3 29	15 48	314 NW	0.71	26.09	163 SSE	-24.95	7.63
1993 3 29	17 48	300 WNW	0.52	17.66	172 S	-17.50	2.35
1993 3 29	19 48	306 NW	0.52	12.37	336 NNW	11.32	-4.97
1993 3 29	21 48	300 WNW	0.55	28.08	337 NNW	25.84	-10.99
1993 3 29	23 48	308 NW	0.55	22.06	334 NNW	19.81	-9.70
Average		302 WNW		19.09		1.64	0.14
Maximum				28.08			
1993 3 30	1 48	291 WNW	0.41	7.76	15 NNE	7.50	1.99
1993 3 30	3 48	308 NW	0.48	20.26	148 SSE	-17.09	10.88
1993 3 30	5 48	307 NW	0.45	12.46	148 SSE	-10.58	6.58
1993 3 30	7 48	272 W	0.29	11.22	54 NE	6.55	9.11
1993 3 30	9 48	299 WNW	0.42	20.52	340 NNW	19.33	-6.89
1993 3 30	11 48	300 WNW	0.41	18.26	344 NNW	17.54	-5.10
1993 3 30	13 48	291 WNW	0.41	3.01	72 ENE	0.94	2.86
1993 3 30	15 48	305 NW	0.52	18.54	159 SSE	-17.29	6.69
1993 3 30	17 48	297 WNW	0.55	17.57	168 SSE	-17.21	3.50
1993 3 30	19 48	309 NW	0.46	10.76	154 SSE	-9.68	4.68
1993 3 30	21 48	298 WNW	0.41	15.16	338 NNW	14.05	-5.71
1993 3 30	23 48	293 WNW	0.60	17.57	338 NNW	16.23	-6.71
Average		298 WNW		14.42		0.86	1.82
Maximum				20.52			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: March 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 3 31	1 48	284 WNW	0.45	3.53	275 W	0.32	-3.51
1993 3 31	3 48	303 WNW	0.50	11.29	143 SE	-9.02	6.79
1993 3 31	5 48	301 WNW	0.50	16.36	148 SSE	-13.90	8.63
1993 3 31	7 48	302 WNW	0.47	7.37	145 SE	-6.00	4.28
1993 3 31	9 48	288 WNW	0.47	10.46	355 N	10.42	-0.99
1993 3 31	11 48	309 NW	0.61	15.81	340 NNW	14.86	-5.40
1993 3 31	13 48	294 WNW	0.45	8.87	350 N	8.73	-1.57
1993 3 31	15 48	302 WNW	0.58	8.41	151 SSE	-7.37	4.06
1993 3 31	17 48	298 WNW	0.71	15.12	157 SSE	-13.92	5.91
1993 3 31	19 48	318 NW	0.55	9.34	143 SE	-7.47	5.61
1993 3 31	21 48	275 W	0.50	7.21	17 NNE	6.90	2.11
1993 3 31	23 48	301 WNW	0.63	15.73	340 NNW	14.74	-5.47
Average		298 WNW		10.79		-0.14	1.70
Maximum				16.36			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: March 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 1	1 48	293 WNW	0.41	11.76	345 NNW	11.35	-3.05
1993 4 1	3 48	285 WNW	0.45	3.54	13 NNE	3.45	0.80
1993 4 1	5 48	298 WNW	0.53	11.72	139 SE	-8.84	7.70
1993 4 1	7 48	300 WNW	0.46	12.90	152 SSE	-11.38	6.08
1993 4 1	9 48	296 WNW	0.38	7.81	128 SE	-4.85	6.13
1993 4 1	11 48	286 WNW	0.45	8.62	351 N	8.52	-1.29
1993 4 1	13 48	306 NW	0.47	13.20	341 NNW	12.45	-4.37
1993 4 1	15 48	284 WNW	0.45	6.26	339 NNW	5.84	-2.26
1993 4 1	17 48	293 WNW	0.50	8.46	165 SSE	-8.18	2.16
1993 4 1	19 48	301 WNW	0.67	13.35	163 SSE	-12.79	3.84
1993 4 1	21 48	306 NW	0.53	9.96	137 SE	-7.30	6.77
1993 4 1	23 48	283 WNW	0.45	6.41	34 NE	5.33	3.56
Average		294 WNW		9.50		-0.53	2.17
Maximum				13.35			
1993 4 2	1 48	299 WNW	0.45	12.90	339 NNW	12.06	-4.57
1993 4 2	3 48	290 WNW	0.43	10.15	358 N	10.15	-0.31
1993 4 2	5 48	298 WNW	0.37	6.48	107 ESE	-1.94	6.18
1993 4 2	7 48	311 NW	0.47	16.38	145 SE	-13.36	9.48
1993 4 2	9 48	316 NW	0.62	13.75	159 SSE	-12.83	4.96
1993 4 2	11 48	298 WNW	0.63	3.86	183 S	-3.86	-0.20
1993 4 2	13 48	296 WNW	0.60	10.78	348 NNW	10.53	-2.33
1993 4 2	15 48	284 WNW	0.47	14.76	338 NNW	13.65	-5.61
1993 4 2	17 48	280 W	0.50	7.21	7 N	7.16	0.87
1993 4 2	19 48	294 WNW	0.50	14.43	143 SE	-11.59	8.60
1993 4 2	21 48	307 NW	0.60	21.02	150 SSE	-18.15	10.62
1993 4 2	23 48	318 NW	0.46	15.31	137 SE	-11.21	10.42
Average		299 WNW		12.25		-1.62	3.18
Maximum				21.02			
1993 4 3	1 48	283 WNW	0.41	10.39	19 NNE	9.80	3.46
1993 4 3	3 48	310 NW	0.46	19.76	347 NNW	19.22	-4.59
1993 4 3	5 48	286 WNW	0.38	11.42	30 NNE	9.90	5.69
1993 4 3	7 48	297 WNW	0.45	15.38	124 SE	-8.56	12.78
1993 4 3	9 48	315 NW	0.56	27.83	147 SSE	-23.31	15.21
1993 4 3	11 48	307 NW	0.65	19.75	150 SSE	-17.04	9.99
1993 4 3	13 48	291 WNW	0.34	5.95	78 ENE	1.24	5.82
1993 4 3	15 48	304 NW	0.58	22.53	343 NNW	21.60	-6.40
1993 4 3	17 48	304 NW	0.45	20.38	341 NNW	19.26	-6.68
1993 4 3	19 48	287 WNW	0.39	3.54	74 ENE	0.96	3.41
1993 4 3	21 48	315 NW	0.63	23.33	156 SSE	-21.40	9.31
1993 4 3	23 48	311 NW	0.65	23.33	154 SSE	-20.99	10.19
Average		301 WNW		16.97		-0.78	4.85
Maximum				27.83			
1993 4 4	1 48	290 WNW	0.43	7.25	107 ESE	-2.09	6.95
1993 4 4	3 48	313 NW	0.55	24.86	348 NNW	24.31	-5.20
1993 4 4	5 48	303 WNW	0.55	20.82	354 N	20.71	-2.05
1993 4 4	7 48	287 WNW	0.60	10.80	81 E	1.70	10.66
1993 4 4	9 48	314 NW	0.54	30.29	145 SE	-24.85	17.32
1993 4 4	11 48	319 NW	0.75	32.56	151 SSE	-28.36	16.00
1993 4 4	13 48	302 WNW	0.50	19.77	129 SE	-12.36	15.42
1993 4 4	15 48	301 WNW	0.52	23.43	342 NNW	22.30	-7.21
1993 4 4	17 48	302 WNW	0.61	34.75	335 NNW	31.59	-14.50
1993 4 4	19 48	299 WNW	0.42	11.86	354 N	11.80	-1.20
1993 4 4	21 48	301 WNW	0.58	20.62	150 SSE	-17.92	10.21
1993 4 4	23 48	317 NW	0.65	29.89	157 SSE	-27.49	11.73
Average		304 NW		22.24		-0.05	4.84
Maximum				34.75			
1993 4 5	1 48	316 NW	0.44	31.71	152 SSE	-27.99	14.89
1993 4 5	3 48	289 WNW	0.37	20.78	349 N	20.41	-3.90
1993 4 5	5 48	306 NW	0.38	36.48	337 NNW	33.53	-14.37
1993 4 5	7 48	295 WNW	0.36	21.40	355 N	21.32	-1.84
1993 4 5	9 48	303 WNW	0.28	22.07	136 SE	-15.81	15.39
1993 4 5	11 48	315 NW	0.46	38.91	149 SSE	-33.29	20.15
1993 4 5	13 48	311 NW	0.44	27.75	146 SE	-23.06	15.45
1993 4 5	15 48	288 WNW	0.29	13.57	32 NNE	11.50	7.21
1993 4 5	17 48	306 NW	0.39	38.41	338 NNW	35.57	-14.50
1993 4 5	19 48	301 WNW	0.38	30.40	346 NNW	29.51	-7.29
1993 4 5	21 48	293 WNW	0.38	11.79	80 E	2.09	11.60
1993 4 5	23 48	323 NW	0.53	37.08	158 SSE	-34.28	14.15
Average		304 NW		27.53		1.63	4.75
Maximum				38.91			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: March 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 6	1 48	316 NW	0.54	28.01	151 SSE	-24.59	13.40
1993 4 6	3 48	291 WNW	0.52	7.89	85 E	0.63	7.87
1993 4 6	5 48	337 NNW	0.87	12.11	349 N	11.87	-2.39
1993 4 6	7 48	297 WNW	0.65	14.67	346 NNW	14.26	-3.45
1993 4 6	9 48	298 WNW	0.44	14.36	97 E	-1.71	14.26
1993 4 6	11 48	328 NNW	0.58	42.99	153 SSE	-38.35	19.42
1993 4 6	13 48	318 NW	0.56	33.75	156 SSE	-30.77	13.88
1993 4 6	15 48	314 NW	0.56	11.66	123 ESE	-6.30	9.81
1993 4 6	17 48	313 NW	0.51	37.99	340 NNW	35.72	-12.91
1993 4 6	19 48	305 NW	0.46	37.06	336 NNW	33.77	-15.27
1993 4 6	21 48	292 WNW	0.37	14.34	16 NNE	13.80	3.91
1993 4 6	23 48	313 NW	0.51	33.30	149 SSE	-28.65	16.98
Average		310 NW		24.01		-1.69	5.46
Maximum				42.99			
1993 4 7	1 48	318 NW	0.58	36.44	150 SSE	-31.70	17.98
1993 4 7	3 48	299 WNW	0.45	24.82	132 SE	-16.72	18.35
1993 4 7	5 48	304 NW	0.47	35.15	337 NNW	32.39	-13.66
1993 4 7	7 48	312 NW	0.48	38.50	338 NNW	35.73	-14.34
1993 4 7	9 48	292 WNW	0.41	15.06	29 NNE	13.13	7.37
1993 4 7	11 48	333 NNW	0.40	18.81	150 SSE	-16.36	9.29
Average		310 NW		28.13		2.75	4.17
Maximum				38.50			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: April 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 7	13 48	317 NW	0.70	43.86	155 SSE	-39.80	18.43
1993 4 7	15 48	304 NW	0.54	26.28	147 SSE	-21.93	14.48
1993 4 7	17 48	294 WNW	0.57	37.35	343 NNW	35.63	-11.22
1993 4 7	19 48	307 NW	0.71	48.14	336 NNW	43.89	-19.77
1993 4 7	21 48	313 NW	0.73	28.01	353 N	27.77	-3.62
1993 4 7	23 48	317 NW	0.62	26.65	136 SE	-19.13	18.55
Average		309 NW		35.05		4.41	2.81
Maximum				48.14			
1993 4 8	1 48	320 NW	0.80	55.74	160 SSE	-52.33	19.17
1993 4 8	3 48	292 WNW	0.58	30.73	158 SSE	-28.40	11.74
1993 4 8	5 48	289 WNW	0.38	19.30	4 N	19.24	1.47
1993 4 8	7 48	321 NW	0.65	48.45	340 NNW	45.65	-16.25
1993 4 8	9 48	299 WNW	0.43	29.45	354 N	29.31	-2.94
1993 4 8	11 48	302 WNW	0.45	26.68	126 SE	-15.84	21.46
1993 4 8	13 48	326 NW	0.79	51.95	154 SSE	-46.53	23.09
1993 4 8	15 48	323 NW	0.62	39.66	153 SSE	-35.30	18.07
1993 4 8	17 48	289 WNW	0.59	21.28	355 N	21.20	-1.83
1993 4 8	19 48	313 NW	0.68	50.72	338 NNW	46.94	-19.21
1993 4 8	21 48	300 WNW	0.65	39.41	348 NNW	38.47	-8.53
1993 4 8	23 48	291 WNW	0.43	15.37	100 E	-2.78	15.12
Average		305 NW		35.73		1.64	5.11
Maximum				55.74			
1993 4 9	1 48	317 NW	0.71	47.78	155 SSE	-43.32	20.17
1993 4 9	3 48	331 NNW	0.61	39.29	152 SSE	-34.56	18.68
1993 4 9	5 48	307 NW	0.68	3.63	358 N	3.63	-0.12
1993 4 9	7 48	317 NW	0.71	44.08	341 NNW	41.77	-14.06
1993 4 9	9 48	316 NW	0.73	35.67	345 NNW	34.52	-8.98
1993 4 9	11 48	333 NNW	0.65	12.68	79 E	2.37	12.46
1993 4 9	13 48	164 SSE	0.79	44.41	157 SSE	-40.73	17.69
1993 4 9	15 48	340 NNW	0.71	33.54	155 SSE	-30.36	14.26
1993 4 9	17 48	299 WNW	0.58	6.23	104 ESE	-1.51	6.04
1993 4 9	19 48	322 NW	0.71	44.40	337 NNW	40.98	-17.08
1993 4 9	21 48	171 S	0.60	43.36	336 NNW	39.75	-17.32
1993 4 9	23 48	292 WNW	0.77	12.86	50 NE	8.18	9.92
Average		292 WNW		30.66		1.73	3.47
Maximum				47.78			
1993 4 10	1 48	334 NNW	0.71	36.72	151 SSE	-32.12	17.80
1993 4 10	3 48	343 NNW	0.64	37.51	155 SSE	-33.93	16.01
1993 4 10	5 48	317 NW	0.71	9.28	137 SE	-6.77	6.34
1993 4 10	7 48	312 NW	0.87	35.32	343 NNW	33.82	-10.19
1993 4 10	9 48	164 SSE	0.85	36.90	342 NNW	35.18	-11.13
1993 4 10	11 48	324 NW	0.58	12.96	21 NNE	12.13	4.57
1993 4 10	13 48	337 NNW	0.76	30.31	154 SSE	-27.26	13.24
1993 4 10	15 48	172 S	0.71	36.78	161 SSE	-34.84	11.80
1993 4 10	17 48	327 NNW	0.23	14.20	152 SSE	-12.54	6.64
1993 4 10	19 48	336 NNW	0.76	34.49	350 N	33.98	-5.94
1993 4 10	21 48	333 NNW	0.71	41.34	339 NNW	38.68	-14.57
1993 4 10	23 48	324 NW	0.68	22.23	349 N	21.82	-4.26
Average		302 WNW		29.00		2.35	2.53
Maximum				41.34			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: April 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 11	1 48	329 NNW	0.71	21.57	141 SE	-16.80	13.53
1993 4 11	3 48	343 NNW	0.62	39.27	154 SSE	-35.21	17.38
1993 4 11	5 48	336 NNW	0.67	26.54	150 SSE	-22.99	13.26
1993 4 11	7 48	304 NW	0.71	19.01	6 N	18.90	2.05
1993 4 11	9 48	327 NNW	0.75	33.84	340 NNW	31.78	-11.64
1993 4 11	11 48	311 NW	0.75	23.56	354 N	23.41	-2.63
1993 4 11	13 48	337 NNW	0.71	16.51	139 SE	-12.41	10.89
1993 4 11	15 48	343 NNW	0.71	35.10	157 SSE	-32.22	13.93
1993 4 11	17 48	168 SSE	0.85	19.36	157 SSE	-17.79	7.66
1993 4 11	19 48	299 WNW	0.65	22.09	2 N	22.08	0.64
1993 4 11	21 48	307 NW	0.82	34.69	346 NNW	33.65	-8.44
1993 4 11	23 48	300 WNW	0.75	27.26	354 N	27.11	-2.84
Average		309 NW		26.57		1.63	4.48
Maximum				39.27			
1993 4 12	1 48	293 WNW	0.63	12.17	102 ESE	-2.52	11.91
1993 4 12	3 48	326 NW	0.63	29.40	151 SSE	-25.64	14.39
1993 4 12	5 48	332 NNW	0.82	27.96	155 SSE	-25.31	11.89
1993 4 12	7 48	290 WNW	0.65	5.49	105 ESE	-1.38	5.31
1993 4 12	9 48	311 NW	0.91	26.73	343 NNW	25.56	-7.81
1993 4 12	11 48	299 WNW	0.65	24.19	353 N	24.00	-3.03
1993 4 12	13 48	291 WNW	0.61	7.25	75 ENE	1.88	7.01
1993 4 12	15 48	290 WNW	0.75	25.56	158 SSE	-23.75	9.46
1993 4 12	17 48	290 WNW	0.80	24.47	164 SSE	-23.54	6.68
1993 4 12	19 48	283 WNW	0.48	4.41	49 NE	2.88	3.33
1993 4 12	21 48	286 WNW	0.67	26.87	347 NNW	26.13	-6.23
1993 4 12	23 48	311 NW	0.50	25.30	346 NNW	24.57	-6.04
Average		300 WNW		19.98		0.24	3.91
Maximum				29.40			
1993 4 13	1 48	282 WNW	0.65	10.98	33 NNE	9.25	5.91
1993 4 13	3 48	300 WNW	0.61	19.60	146 SE	-16.33	10.85
1993 4 13	5 48	310 NW	0.68	22.78	154 SSE	-20.49	9.97
1993 4 13	7 48	295 WNW	0.52	8.18	161 SSE	-7.74	2.63
1993 4 13	9 48	275 W	0.43	19.35	348 NNW	18.95	-3.94
1993 4 13	11 48	293 WNW	0.60	20.66	342 NNW	19.66	-6.35
1993 4 13	13 48	288 WNW	0.52	11.46	350 N	11.27	-2.08
1993 4 13	15 48	287 WNW	0.43	12.30	171 S	-12.15	1.92
1993 4 13	17 48	286 WNW	0.65	19.38	169 S	-19.03	3.70
1993 4 13	19 48	277 W	0.58	4.51	203 SSW	-4.16	-1.75
1993 4 13	21 48	283 WNW	0.53	17.94	337 NNW	16.55	-6.93
1993 4 13	23 48	291 WNW	0.58	18.62	333 NNW	16.63	-8.38
Average		289 WNW		15.48		1.03	0.46
Maximum				22.78			
1993 4 14	1 48	301 WNW	0.53	9.55	347 NNW	9.28	-2.22
1993 4 14	3 48	286 WNW	0.43	11.03	113 ESE	-4.40	10.12
1993 4 14	5 48	299 WNW	0.45	16.83	147 SSE	-14.12	9.16
1993 4 14	7 48	293 WNW	0.50	12.86	141 SE	-10.04	8.04
1993 4 14	9 48	273 W	0.41	3.70	25 NNE	3.36	1.54
1993 4 14	11 48	288 WNW	0.52	12.91	357 N	12.89	-0.62
1993 4 14	13 48	281 W	0.52	14.27	339 NNW	13.36	-5.01
1993 4 14	15 48	287 WNW	0.50	1.51	325 NW	1.23	-0.87
1993 4 14	17 48	284 WNW	0.63	12.52	169 S	-12.31	2.29
1993 4 14	19 48	294 WNW	0.50	12.78	188 S	-12.65	-1.83
1993 4 14	21 48	277 W	0.55	4.63	243 WSW	-2.12	-4.11
1993 4 14	23 48	287 WNW	0.60	12.44	337 NNW	11.43	-4.91
Average		288 WNW		10.42		-0.34	0.96
Maximum				16.83			
1993 4 15	1 48	297 WNW	0.65	12.89	334 NNW	11.58	-5.65
1993 4 15	3 48	268 W	0.71	3.75	341 NNW	3.54	-1.23
1993 4 15	5 48	292 WNW	0.53	9.04	167 SSE	-8.82	1.98
1993 4 15	7 48	306 NW	0.61	9.95	161 SSE	-9.42	3.21
1993 4 15	9 48	293 WNW	0.46	6.16	145 SE	-5.07	3.51
1993 4 15	11 48	281 W	0.55	6.62	3 N	6.61	0.32
1993 4 15	13 48	298 WNW	0.58	11.76	329 NNW	10.07	-6.06
1993 4 15	15 48	290 WNW	0.50	11.89	328 NNW	10.05	-6.35
1993 4 15	17 48	284 WNW	0.50	3.23	264 W	-0.32	-3.22
1993 4 15	19 48	305 NW	0.71	10.01	169 S	-9.83	1.92
1993 4 15	21 48	308 NW	0.71	12.00	161 SSE	-11.35	3.91
1993 4 15	23 48	286 WNW	0.53	3.32	144 SE	-2.70	1.93
Average		292 WNW		8.39		-0.47	-0.48
Maximum				12.89			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
Month and Year: April 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 16	1 48	284 WNW	0.71	9.74	355 N	9.69	-0.90
1993 4 16	3 48	291 WNW	0.48	16.02	355 N	15.95	-1.45
1993 4 16	5 48	283 WNW	0.46	1.75	49 NE	1.16	1.31
1993 4 16	7 48	295 WNW	0.53	9.24	162 SSE	-8.78	2.88
1993 4 16	9 48	244 WSW	0.76	15.24	163 SSE	-14.58	4.43
1993 4 16	11 48	173 S	0.96	6.42	186 S	-6.39	-0.65
1993 4 16	13 48	264 W	1.00	11.12	313 NW	7.52	-8.19
1993 4 16	15 48	295 WNW	0.65	17.80	322 NW	14.10	-10.87
1993 4 16	17 48	293 WNW	0.80	13.96	329 NNW	11.93	-7.25
1993 4 16	19 48	291 WNW	0.65	2.21	160 SSE	-2.08	0.76
1993 4 16	21 48	301 WNW	0.71	14.31	149 SSE	-12.28	7.35
1993 4 16	23 48	289 WNW	0.58	8.16	148 SSE	-6.91	4.33
Average		275 W		10.50		0.78	-0.69
Maximum				17.80			
1993 4 17	1 48	270 W	0.58	9.47	21 NNE	8.82	3.44
1993 4 17	3 48	281 W	0.53	17.30	351 N	17.07	-2.82
1993 4 17	5 48	300 WNW	0.76	11.42	2 N	11.41	0.40
1993 4 17	7 48	311 NW	0.71	8.79	118 ESE	-4.12	7.77
1993 4 17	9 48	322 NW	0.61	20.16	155 SSE	-18.20	8.68
1993 4 17	11 48	311 NW	0.76	20.65	157 SSE	-19.00	8.09
1993 4 17	13 48	293 WNW	0.50	3.41	94 E	-0.24	3.40
1993 4 17	15 48	265 W	0.91	17.59	340 NNW	16.51	-6.07
1993 4 17	17 48	308 NW	0.71	18.78	342 NNW	17.85	-5.86
1993 4 17	19 48	286 WNW	0.58	4.64	16 NNE	4.46	1.25
1993 4 17	21 48	306 NW	0.77	18.22	156 SSE	-16.64	7.42
1993 4 17	23 48	320 NW	0.76	18.99	155 SSE	-17.14	8.16
Average		298 WNW		14.12		0.07	2.82
Maximum				20.65			
1993 4 18	1 48	295 WNW	0.55	3.80	106 ESE	-1.03	3.66
1993 4 18	3 48	277 W	0.77	19.10	358 N	19.08	-0.79
1993 4 18	5 48	280 W	0.58	16.18	356 N	16.14	-1.19
1993 4 18	7 48	294 WNW	0.77	6.95	77 ENE	1.59	6.77
1993 4 18	9 48	298 WNW	0.77	21.36	147 SSE	-17.95	11.57
1993 4 18	11 48	328 NNW	0.67	27.45	154 SSE	-24.61	12.15
1993 4 18	13 48	293 WNW	0.71	12.65	152 SSE	-11.12	6.03
1993 4 18	15 48	300 WNW	0.58	17.13	344 NNW	16.48	-4.69
1993 4 18	17 48	313 NW	0.67	26.97	336 NNW	24.62	-11.02
1993 4 18	19 48	303 WNW	0.52	11.36	346 NNW	11.04	-2.69
1993 4 18	21 48	303 WNW	0.50	15.99	159 SSE	-14.97	5.61
1993 4 18	23 48	310 NW	0.60	24.79	160 SSE	-23.26	8.58
Average		300 WNW		16.98		-0.33	2.83
Maximum				27.45			
1993 4 19	1 48	305 NW	0.45	14.37	148 SSE	-12.17	7.63
1993 4 19	3 48	294 WNW	0.46	14.00	358 N	13.99	-0.57
1993 4 19	5 48	301 WNW	0.50	24.08	337 NNW	22.21	-9.30
1993 4 19	7 48	298 WNW	0.48	11.74	3 N	11.72	0.69
1993 4 19	9 48	308 NW	0.53	18.26	152 SSE	-16.18	8.46
1993 4 19	11 48	309 NW	0.80	26.87	159 SSE	-25.03	9.78
1993 4 19	13 48	305 NW	0.75	18.70	169 S	-18.37	3.50
1993 4 19	15 48	300 WNW	0.53	14.77	339 NNW	13.74	-5.41
1993 4 19	17 48	315 NW	0.68	28.75	331 NNW	25.26	-13.72
1993 4 19	19 48	313 NW	0.56	20.59	340 NNW	19.32	-7.11
1993 4 19	21 48	264 W	0.82	4.69	118 ESE	-2.19	4.15
1993 4 19	23 48	316 NW	0.93	23.50	159 SSE	-21.91	8.50
Average		302 WNW		18.36		0.87	0.55
Maximum				28.75			
1993 4 20	1 48	311 NW	0.77	17.75	160 SSE	-16.67	6.10
1993 4 20	3 48	297 WNW	0.71	9.18	357 N	9.17	-0.44
1993 4 20	5 48	306 NW	0.71	24.31	340 NNW	22.91	-8.13
1993 4 20	7 48	307 NW	0.71	18.82	346 NNW	18.27	-4.51
1993 4 20	9 48	308 NW	0.50	10.38	126 SE	-6.13	8.38
1993 4 20	11 48	332 NNW	0.66	33.49	153 SSE	-29.85	15.20
1993 4 20	13 48	331 NNW	0.71	26.78	154 SSE	-24.13	11.61
1993 4 20	15 48	296 WNW	0.71	7.78	70 ENE	2.63	7.33
1993 4 20	17 48	324 NW	0.58	30.32	338 NNW	28.09	-11.40
1993 4 20	19 48	324 NW	0.48	26.79	343 NNW	25.59	-7.94
1993 4 20	21 48	292 WNW	0.58	6.36	53 NE	3.82	5.08
1993 4 20	23 48	334 NNW	0.85	28.14	162 SSE	-26.81	8.57
Average		314 NW		20.01		0.57	2.49
Maximum				33.49			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: April 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 21	1 48	338 NNW	0.60	32.35	159 SSE	-30.15	11.74
1993 4 21	3 48	223 SW	0.55	8.79	115 ESE	-3.68	7.98
1993 4 21	5 48	308 NW	0.71	20.27	342 NNW	19.33	-6.10
1993 4 21	7 48	333 NNW	0.60	25.81	341 NNW	24.36	-8.53
1993 4 21	9 48	236 SW	0.87	9.37	57 ENE	5.14	7.84
1993 4 21	11 48	330 NNW	0.61	34.10	155 SSE	-30.79	14.66
1993 4 21	13 48	322 NW	0.67	28.79	155 SSE	-26.04	12.26
1993 4 21	15 48	291 NNW	0.67	4.74	159 SSE	-4.42	1.71
1993 4 21	17 48	317 NW	0.67	31.34	334 NNW	28.22	-13.62
1993 4 21	19 48	329 NNW	0.58	33.39	337 NNW	30.84	-12.80
1993 4 21	21 48	305 NW	0.55	16.56	6 N	16.47	1.73
1993 4 21	23 48	327 NNW	0.75	29.40	152 SSE	-26.04	13.65
Average		305 NW		22.91		0.27	2.54
Maximum				34.10			
1993 4 22	1 48	329 NNW	0.71	35.29	155 SSE	-31.89	15.09
1993 4 22	3 48	334 NNW	0.91	15.12	151 SSE	-13.24	7.30
1993 4 22	5 48	320 NW	0.52	24.94	338 NNW	23.11	-9.37
1993 4 22	7 48	332 NNW	0.73	31.68	338 NNW	29.29	-12.08
1993 4 22	9 48	300 NNW	0.71	11.75	14 NNE	11.39	2.87
1993 4 22	11 48	329 NNW	0.71	27.63	149 SSE	-23.71	14.18
1993 4 22	13 48	343 NNW	0.79	31.10	157 SSE	-28.52	12.38
1993 4 22	15 48	327 NNW	0.71	15.87	157 SSE	-14.59	6.23
1993 4 22	17 48	316 NW	0.61	28.13	339 NNW	26.24	-10.14
1993 4 22	19 48	331 NNW	0.40	35.84	340 NNW	33.61	-12.45
1993 4 22	21 48	306 NW	0.67	18.09	356 N	18.04	-1.39
1993 4 22	23 48	331 NNW	0.53	21.98	143 SE	-17.61	13.16
Average		325 NW		24.79		1.01	2.15
Maximum				35.84			
1993 4 23	1 48	327 NNW	0.77	34.66	154 SSE	-31.20	15.10
1993 4 23	3 48	168 SSE	0.91	21.68	154 SSE	-19.49	9.51
1993 4 23	5 48	296 NNW	0.53	21.27	351 N	20.99	-3.42
1993 4 23	7 48	325 NW	0.55	35.33	339 NNW	33.08	-12.42
1993 4 23	9 48	315 NW	0.67	21.19	352 N	21.00	-2.77
1993 4 23	11 48	332 NNW	0.71	21.23	141 SE	-16.49	13.38
1993 4 23	13 48	342 NNW	0.78	38.58	158 SSE	-35.68	14.67
1993 4 23	15 48	326 NW	0.79	25.70	160 SSE	-24.20	8.65
1993 4 23	17 48	315 NW	0.55	20.54	360 N	20.54	-0.02
1993 4 23	19 48	323 NW	0.61	42.31	333 NNW	37.84	-18.94
1993 4 23	21 48	312 NW	0.79	27.82	346 NNW	26.97	-6.84
1993 4 23	23 48	256 WSW	1.00	11.70	120 ESE	-5.80	10.16
Average		303 NNW		26.83		2.30	2.26
Maximum				42.31			
1993 4 24	1 48	334 NNW	0.65	38.76	154 SSE	-34.79	17.07
1993 4 24	3 48	324 NW	0.71	29.25	153 SSE	-26.14	13.12
1993 4 24	5 48	301 NNW	0.63	8.12	6 N	8.08	0.79
1993 4 24	7 48	323 NW	0.71	31.26	335 NNW	28.38	-13.10
1993 4 24	9 48	315 NW	0.75	24.06	343 NNW	22.96	-7.17
1993 4 24	11 48	176 S	0.77	13.50	120 ESE	-6.71	11.71
1993 4 24	13 48	341 NNW	0.66	38.86	156 SSE	-35.49	15.81
1993 4 24	15 48	330 NNW	0.71	30.33	161 SSE	-28.60	10.11
1993 4 24	17 48	316 NW	0.53	4.79	342 NNW	4.55	-1.50
1993 4 24	19 48	324 NW	0.61	36.75	335 NNW	33.21	-15.76
1993 4 24	21 48	322 NW	0.63	29.92	335 NNW	27.14	-12.61
1993 4 24	23 48	173 S	0.76	9.85	33 NNE	8.26	5.37
Average		298 NNW		24.62		0.07	1.99
Maximum				38.86			
1993 4 25	1 48	333 NNW	0.71	31.28	157 SSE	-28.74	12.35
1993 4 25	3 48	334 NNW	0.73	29.74	154 SSE	-26.66	13.17
1993 4 25	5 48	164 SSE	0.58	7.68	141 SE	-5.97	4.83
1993 4 25	7 48	322 NW	0.67	27.95	338 NNW	25.86	-10.59
1993 4 25	9 48	332 NNW	0.77	28.92	340 NNW	27.22	-9.78
1993 4 25	11 48	258 WSW	0.50	8.27	45 NE	5.86	5.84
1993 4 25	13 48	336 NNW	0.68	30.77	158 SSE	-28.60	11.36
1993 4 25	15 48	325 NW	0.82	26.45	164 SSE	-25.39	7.39
1993 4 25	17 48	305 NW	0.58	1.59	91 E	-0.01	1.59
1993 4 25	19 48	318 NW	0.76	30.09	340 NNW	28.19	-10.52
1993 4 25	21 48	318 NW	0.52	31.98	333 NNW	28.49	-14.52
1993 4 25	23 48	257 WSW	0.75	12.61	357 N	12.59	-0.58
Average		300 NNW		22.28		1.07	0.88
Maximum				31.98			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: April 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 4 26	1 48	328 NNW	0.85	22.57	151 SSE	-19.71	11.00
1993 4 26	3 48	335 NNW	0.76	30.49	158 SSE	-28.28	11.41
1993 4 26	5 48	298 WNW	0.71	12.25	146 SE	-10.14	6.87
1993 4 26	7 48	299 WNW	0.71	20.84	340 NNW	19.54	-7.24
1993 4 26	9 48	320 NW	0.82	25.46	341 NNW	24.13	-8.13
1993 4 26	11 48	297 WNW	0.82	11.79	1 N	11.79	0.15
1993 4 26	13 48	331 NNW	0.77	19.93	157 SSE	-18.30	7.91
1993 4 26	15 48	334 NNW	0.73	28.55	163 SSE	-27.36	8.17
1993 4 26	17 48	330 NNW	0.67	22.95	164 SSE	-22.11	6.13
1993 4 26	19 48	297 WNW	0.71	14.85	340 NNW	13.91	-5.20
1993 4 26	21 48	319 NW	0.53	28.34	331 NNW	24.77	-13.77
1993 4 26	23 48	309 NW	0.67	13.42	346 NNW	13.03	-3.22
Average		316 NW		20.95		-1.56	1.17
Maximum				30.49			
1993 4 27	1 48	318 NW	0.71	13.22	147 SSE	-11.10	7.18
1993 4 27	3 48	328 NNW	0.62	29.48	155 SSE	-26.82	12.23
1993 4 27	5 48	300 WNW	0.71	19.76	153 SSE	-17.67	8.85
1993 4 27	7 48	282 WNW	0.58	10.74	1 N	10.73	0.23
1993 4 27	9 48	315 NW	0.79	22.48	343 NNW	21.48	-6.63
1993 4 27	11 48	278 W	0.65	16.33	346 NNW	15.84	-3.99
1993 4 27	13 48	182 S	0.89	7.41	144 SE	-5.98	4.38
1993 4 27	15 48	305 NW	0.85	25.22	165 SSE	-24.34	6.63
1993 4 27	17 48	301 WNW	0.77	17.44	166 SSE	-16.90	4.32
1993 4 27	19 48	294 WNW	0.63	8.55	350 N	8.43	-1.43
1993 4 27	21 48	317 NW	0.61	22.29	334 NNW	20.11	-9.62
1993 4 27	23 48	326 NW	0.67	20.90	336 NNW	19.11	-8.48
Average		296 WNW		17.82		-0.59	1.14
Maximum				29.48			
1993 4 28	1 48	276 W	0.65	2.35	81 E	0.35	2.32
1993 4 28	3 48	322 NW	0.76	23.11	156 SSE	-21.09	9.45
1993 4 28	5 48	316 NW	0.65	21.06	155 SSE	-19.07	8.93
1993 4 28	7 48	294 WNW	0.58	3.23	145 SE	-2.63	1.86
1993 4 28	9 48	295 WNW	0.65	15.65	342 NNW	14.90	-4.76
1993 4 28	11 48	306 NW	0.65	16.88	342 NNW	16.07	-5.15
1993 4 28	13 48	284 WNW	0.53	3.04	88 E	0.09	3.04
1993 4 28	15 48	294 WNW	0.63	19.28	160 SSE	-18.16	6.47
1993 4 28	17 48	296 WNW	0.77	18.58	165 SSE	-17.94	4.83
1993 4 28	19 48	293 WNW	0.63	6.29	163 SSE	-6.01	1.83
1993 4 28	21 48	296 WNW	0.63	14.38	342 NNW	13.67	-4.46
1993 4 28	23 48	312 NW	0.55	18.46	333 NNW	16.48	-8.32
Average		299 WNW		13.53		-1.95	1.34
Maximum				23.11			
1993 4 29	1 48	312 NW	0.65	10.52	336 NNW	9.64	-4.21
1993 4 29	3 48	281 W	0.71	13.19	154 SSE	-11.83	5.85
1993 4 29	5 48	308 NW	0.75	23.00	159 SSE	-21.53	8.07
1993 4 29	7 48	291 WNW	0.71	11.25	151 SSE	-9.79	5.54
1993 4 29	9 48	281 W	0.58	8.91	357 N	8.90	-0.44
1993 4 29	11 48	305 NW	0.71	13.39	340 NNW	12.62	-4.47
1993 4 29	13 48	304 NW	0.71	10.19	341 NNW	9.63	-3.35
1993 4 29	15 48	296 WNW	0.63	7.93	160 SSE	-7.46	2.71
1993 4 29	17 48	327 NNW	0.87	17.89	167 SSE	-17.46	3.90
1993 4 29	19 48	291 WNW	0.63	9.79	170 S	-9.64	1.69
1993 4 29	21 48	302 WNW	0.63	6.23	332 NNW	5.48	-2.97
1993 4 29	23 48	309 NW	0.63	12.70	336 NNW	11.61	-5.15
Average		301 WNW		12.08		-1.65	0.60
Maximum				23.00			
1993 4 30	1 48	315 NW	0.55	13.67	337 NNW	12.57	-5.37
1993 4 30	3 48	288 WNW	0.71	3.51	107 ESE	-1.02	3.36
1993 4 30	5 48	321 NW	0.71	15.32	154 SSE	-13.82	6.60
1993 4 30	7 48	321 NW	0.61	19.58	160 SSE	-18.41	6.67
1993 4 30	9 48	290 WNW	0.58	6.29	157 SSE	-5.79	2.47
1993 4 30	11 48	302 WNW	0.71	8.87	336 NNW	8.08	-3.66
1993 4 30	13 48	312 NW	0.71	11.60	334 NNW	10.41	-5.11
1993 4 30	15 48	302 WNW	0.71	3.46	321 NW	2.69	-2.17
1993 4 30	17 48	300 WNW	0.82	11.73	171 S	-11.59	1.78
1993 4 30	19 48	296 WNW	0.63	15.01	174 S	-14.93	1.49
1993 4 30	21 48	306 NW	0.58	15.50	169 S	-15.23	2.89
1993 4 30	23 48	298 WNW	0.53	2.05	194 SSW	-1.98	-0.51
Average		304 NW		10.55		-4.09	0.70
Maximum				19.58			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: April 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 1	1 48	308 NW	0.39	6.65	336 NNW	6.05	-2.74
1993 5 1	3 48	304 NW	0.52	6.42	2 N	6.41	0.23
1993 5 1	5 48	294 WNW	0.47	6.39	126 SE	-3.71	5.20
1993 5 1	7 48	307 NW	0.55	19.48	151 SSE	-17.04	9.45
1993 5 1	9 48	300 WNW	0.55	19.71	155 SSE	-17.80	8.48
1993 5 1	11 48	290 WNW	0.50	6.72	113 ESE	-2.62	6.19
1993 5 1	13 48	293 WNW	0.39	7.52	357 N	7.51	-0.44
1993 5 1	15 48	305 NW	0.37	13.53	333 NNW	12.06	-6.13
1993 5 1	17 48	296 WNW	0.34	3.76	314 NW	2.60	-2.71
1993 5 1	19 48	302 WNW	0.48	14.22	175 S	-14.16	1.31
1993 5 1	21 48	306 NW	0.71	22.53	170 S	-22.21	3.76
1993 5 1	23 48	305 NW	0.63	15.08	168 SSE	-14.72	3.26
Average		301 WNW		11.83		-4.80	2.16
Maximum				22.53			
1993 5 2	1 48	297 WNW	0.39	6.85	349 N	6.72	-1.33
1993 5 2	3 48	310 NW	0.46	13.80	332 NNW	12.16	-6.52
1993 5 2	5 48	296 WNW	0.46	8.39	352 N	8.30	-1.23
1993 5 2	7 48	297 WNW	0.61	14.75	149 SSE	-12.69	7.51
1993 5 2	9 48	306 NW	0.65	29.43	154 SSE	-26.48	12.86
1993 5 2	11 48	302 WNW	0.61	19.66	157 SSE	-18.11	7.64
1993 5 2	13 48	289 WNW	0.47	5.78	10 N	5.70	0.96
1993 5 2	15 48	316 NW	0.55	18.82	336 NNW	17.16	-7.71
1993 5 2	17 48	313 NW	0.48	14.18	337 NNW	13.02	-5.62
1993 5 2	19 48	293 WNW	0.50	4.74	153 SSE	-4.21	2.18
1993 5 2	21 48	303 WNW	0.63	23.85	168 SSE	-23.34	4.89
1993 5 2	23 48	297 WNW	0.55	23.26	160 SSE	-21.85	7.97
Average		302 WNW		15.29		-3.64	1.80
Maximum				29.43			
1993 5 3	1 48	301 WNW	0.55	6.12	208 SSW	-5.38	-2.91
1993 5 3	3 48	300 WNW	0.52	17.13	337 NNW	15.78	-6.67
1993 5 3	5 48	306 NW	0.52	16.96	334 NNW	15.25	-7.42
1993 5 3	7 48	292 WNW	0.62	6.08	117 ESE	-2.75	5.43
1993 5 3	9 48	315 NW	0.66	34.02	154 SSE	-30.70	14.66
1993 5 3	11 48	311 NW	0.54	31.05	155 SSE	-28.25	12.90
1993 5 3	13 48	301 WNW	0.58	11.64	144 SE	-9.45	6.79
1993 5 3	15 48	301 WNW	0.58	19.79	335 NNW	17.97	-8.28
1993 5 3	17 48	311 NW	0.53	22.50	330 NNW	19.48	-11.26
1993 5 3	19 48	306 NW	0.50	9.76	352 N	9.68	-1.31
1993 5 3	21 48	319 NW	0.61	21.28	152 SSE	-18.76	10.03
1993 5 3	23 48	320 NW	0.58	33.57	156 SSE	-30.68	13.62
Average		307 NW		19.16		-3.98	2.13
Maximum				34.02			
1993 5 4	1 48	303 WNW	0.65	17.12	157 SSE	-15.73	6.75
1993 5 4	3 48	304 NW	0.47	13.50	350 N	13.29	-2.35
1993 5 4	5 48	320 NW	0.54	23.50	333 NNW	20.88	-10.78
1993 5 4	7 48	308 NW	0.50	7.39	20 NNE	6.94	2.55
1993 5 4	9 48	310 NW	0.71	26.09	150 SSE	-22.61	13.01
1993 5 4	11 48	321 NW	0.68	37.22	158 SSE	-34.55	13.86
1993 5 4	13 48	310 NW	0.65	24.51	154 SSE	-21.99	10.82
1993 5 4	15 48	304 NW	0.45	11.02	343 NNW	10.56	-3.15
1993 5 4	17 48	313 NW	0.58	27.44	333 NNW	24.47	-12.42
1993 5 4	19 48	308 NW	0.58	15.50	341 NNW	14.65	-5.07
1993 5 4	21 48	312 NW	0.58	15.30	133 SE	-10.50	11.14
1993 5 4	23 48	324 NW	0.67	39.32	158 SSE	-36.55	14.49
Average		311 NW		21.49		-4.26	3.24
Maximum				39.32			
1993 5 5	1 48	337 NNW	0.67	30.48	162 SSE	-29.02	9.29
1993 5 5	3 48	295 WNW	0.63	4.40	7 N	4.37	0.52
1993 5 5	5 48	308 NW	0.62	27.69	332 NNW	24.41	-13.07
1993 5 5	7 48	289 WNW	0.71	16.29	344 NNW	15.65	-4.52
1993 5 5	9 48	295 WNW	0.58	16.30	130 SE	-10.58	12.40
Average		305 NW		19.03		0.97	0.92
Maximum				30.48			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)

1993	5	5	11 48	259 W	0.62	54.60	211 SSW	-46.66	-28.35
1993	5	5	13 48	320 NW	0.65	37.59	148 SSE	-32.03	19.67
1993	5	5	15 48	306 NW	0.52	12.71	29 NNE	11.14	6.11
1993	5	5	17 48	235 SW	0.28	48.42	334 NNW	43.46	-21.34
1993	5	5	19 48	329 NNW	0.00	34.28	342 NNW	32.65	-10.44
1993	5	5	21 48	329 NNW	0.00	9.28	94 E	-0.69	9.25
1993	5	5	23 48	328 NNW	0.00	47.95	139 SE	-36.13	31.52

Average				301 NNW		34.98		-4.04	0.92
Maximum						54.60			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concentration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 6	1 48	329 NNW	0.00	42.49	139 SE	-32.12	27.81
1993 5 6	3 48	317 NW	0.55	13.79	110 ESE	-4.61	12.99
1993 5 6	5 48	239 WSW	0.53	39.08	351 N	38.61	-6.05
1993 5 6	7 48	324 NW	0.81	39.32	352 N	38.92	-5.61
1993 5 6	9 48	287 WNW	0.41	17.51	64 ENE	7.72	15.71
1993 5 6	11 48	324 NW	0.95	46.64	152 SSE	-41.36	21.56
1993 5 6	13 48	326 NW	0.87	38.24	148 SSE	-32.53	20.10
1993 5 6	15 48	297 WNW	0.41	18.91	118 ESE	-8.97	16.65
1993 5 6	17 48	325 NW	0.68	40.67	349 N	39.86	-8.09
1993 5 6	19 48	313 NW	0.75	46.14	341 NNW	43.75	-14.65
1993 5 6	21 48	308 NW	0.50	22.99	12 NNE	22.53	4.61
1993 5 6	23 48	319 NW	0.46	34.33	141 SE	-26.58	21.73
Average		309 NW		33.34		3.77	8.90
Maximum				46.64			
1993 5 7	1 48	327 NNW	0.82	45.59	149 SSE	-39.16	23.34
1993 5 7	3 48	311 NW	0.73	24.58	140 SE	-18.77	15.87
1993 5 7	5 48	304 NW	0.51	26.27	3 N	26.22	1.55
1993 5 7	7 48	333 NNW	0.69	45.84	346 NNW	44.46	-11.14
1993 5 7	9 48	301 WNW	0.47	22.09	20 NNE	20.80	7.43
1993 5 7	11 48	308 NW	0.42	31.44	139 SE	-23.77	20.57
1993 5 7	13 48	319 NW	0.75	46.23	156 SSE	-42.15	18.99
1993 5 7	15 48	306 NW	0.73	31.25	153 SSE	-27.85	14.18
1993 5 7	17 48	309 NW	0.67	27.57	350 N	27.16	-4.77
1993 5 7	19 48	326 NW	0.61	44.44	346 NNW	43.10	-10.85
1993 5 7	21 48	310 NW	0.62	31.41	1 N	31.40	0.56
1993 5 7	23 48	292 WNW	0.57	22.72	118 ESE	-10.79	20.00
Average		312 NW		33.29		2.55	7.98
Maximum				46.23			
1993 5 8	1 48	327 NNW	0.80	49.93	153 SSE	-44.46	22.72
1993 5 8	3 48	326 NW	0.81	35.53	149 SSE	-30.46	18.29
1993 5 8	5 48	280 W	0.33	9.49	66 ENE	3.80	8.70
1993 5 8	7 48	312 NW	0.75	38.72	349 N	38.06	-7.11
1993 5 8	9 48	301 WNW	0.57	28.67	359 N	28.66	-0.37
1993 5 8	11 48	292 WNW	0.49	17.34	91 E	-0.16	17.33
1993 5 8	13 48	287 WNW	0.78	44.76	153 SSE	-39.99	20.10
1993 5 8	15 48	295 WNW	0.64	36.97	153 SSE	-33.03	16.62
1993 5 8	17 48	277 W	0.47	8.49	63 ENE	3.87	7.56
1993 5 8	19 48	293 WNW	0.57	40.74	351 N	40.23	-6.39
1993 5 8	21 48	301 WNW	0.58	36.83	351 N	36.35	-5.90
1993 5 8	23 48	303 WNW	0.50	14.82	64 ENE	6.52	13.31
Average		300 WNW		30.19		0.78	8.74
Maximum				49.93			
1993 5 9	1 48	304 NW	0.75	42.46	151 SSE	-37.09	20.67
1993 5 9	3 48	303 WNW	0.74	37.33	146 SE	-31.07	20.69
1993 5 9	5 48	297 WNW	0.32	14.62	125 SE	-8.46	11.93
1993 5 9	7 48	299 WNW	0.48	33.07	352 N	32.75	-4.59
1993 5 9	9 48	300 WNW	0.63	35.20	354 N	35.03	-3.42
1993 5 9	11 48	295 WNW	0.46	13.51	33 NNE	11.34	7.34
1993 5 9	13 48	289 WNW	0.63	30.32	155 SSE	-27.53	12.71
1993 5 9	15 48	313 NW	0.84	36.15	155 SSE	-32.76	15.27
1993 5 9	17 48	288 WNW	0.44	14.26	135 SE	-10.11	10.06
1993 5 9	19 48	282 WNW	0.54	32.72	349 N	32.13	-6.20
1993 5 9	21 48	313 NW	0.68	33.83	347 NNW	33.03	-7.33
1993 5 9	23 48	310 NW	0.43	19.81	23 NNE	18.27	7.65
Average		299 WNW		28.61		1.29	7.07
Maximum				42.46			
1993 5 10	1 48	315 NW	0.41	28.07	145 SE	-22.97	16.14
1993 5 10	3 48	332 NNW	0.69	37.61	151 SSE	-32.88	18.26
1993 5 10	5 48	324 NW	0.71	19.53	142 SE	-15.43	11.97
1993 5 10	7 48	299 WNW	0.37	9.95	7 N	9.87	1.27
1993 5 10	9 48	306 NW	0.50	31.85	354 N	31.70	-3.09
1993 5 10	11 48	300 WNW	0.37	20.48	10 N	20.17	3.56
1993 5 10	13 48	310 NW	0.46	20.44	139 SE	-15.46	13.37
1993 5 10	15 48	306 NW	0.76	32.03	154 SSE	-28.88	13.87
1993 5 10	17 48	301 WNW	0.53	19.40	154 SSE	-17.49	8.38
1993 5 10	19 48	295 WNW	0.34	19.49	4 N	19.45	1.28
1993 5 10	21 48	309 NW	0.60	30.45	344 NNW	29.34	-8.16
1993 5 10	23 48	304 NW	0.52	26.78	354 N	26.66	-2.58
Average		308 NW		24.67		0.34	6.19
Maximum				37.61			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 11	1 48	303 WNW	0.54	14.14	119 ESE	-6.91	12.34
1993 5 11	3 48	329 NNW	0.62	33.80	151 SSE	-29.44	16.62
1993 5 11	5 48	319 NW	0.55	27.70	150 SSE	-23.91	14.00
1993 5 11	7 48	297 WNW	0.32	5.22	146 SE	-4.31	2.95
1993 5 11	9 48	311 NW	0.32	21.23	351 N	20.98	-3.23
1993 5 11	11 48	305 NW	0.33	23.27	356 N	23.21	-1.64
1993 5 11	13 48	299 WNW	0.45	7.62	88 E	0.29	7.62
1993 5 11	15 48	301 WNW	0.47	24.92	153 SSE	-22.25	11.21
1993 5 11	17 48	294 WNW	0.52	26.64	158 SSE	-24.65	10.10
1993 5 11	19 48	294 WNW	0.34	4.31	73 ENE	1.25	4.13
1993 5 11	21 48	305 NW	0.48	23.79	348 NNW	23.25	-5.01
1993 5 11	23 48	312 NW	0.45	29.31	350 N	28.83	-5.29
Average		306 NW		20.16		-1.14	5.32
Maximum				33.80			
1993 5 12	1 48	299 WNW	0.46	9.13	29 NNE	7.96	4.47
1993 5 12	3 48	308 NW	0.59	20.52	149 SSE	-17.59	10.56
1993 5 12	5 48	300 WNW	0.55	22.91	143 SE	-18.24	13.86
1993 5 12	7 48	286 WNW	0.42	10.57	86 E	0.71	10.55
1993 5 12	9 48	299 WNW	0.43	20.74	0 N	20.74	0.12
1993 5 12	11 48	311 NW	0.50	20.96	356 N	20.90	-1.56
1993 5 12	13 48	300 WNW	0.39	10.49	29 NNE	9.22	5.01
1993 5 12	15 48	310 NW	0.45	18.41	144 SE	-14.96	10.73
1993 5 12	17 48	307 NW	0.55	20.87	154 SSE	-18.78	9.12
1993 5 12	19 48	297 WNW	0.47	6.67	138 SE	-4.97	4.45
1993 5 12	21 48	319 NW	0.35	15.70	3 N	15.67	0.89
1993 5 12	23 48	303 WNW	0.58	14.82	5 N	14.76	1.27
Average		303 WNW		15.98		1.28	5.79
Maximum				22.91			
1993 5 13	1 48	310 NW	0.58	10.85	58 ENE	5.74	9.21
1993 5 13	3 48	311 NW	0.38	17.97	137 SE	-13.20	12.19
1993 5 13	5 48	316 NW	0.63	24.05	143 SE	-19.09	14.63
1993 5 13	7 48	308 NW	0.61	14.39	144 SE	-11.61	8.51
1993 5 13	9 48	301 WNW	0.32	6.58	62 ENE	3.09	5.81
1993 5 13	11 48	307 NW	0.45	16.31	359 N	16.31	-0.15
1993 5 13	13 48	307 NW	0.43	11.27	7 N	11.19	1.35
1993 5 13	15 48	307 NW	0.38	8.30	132 SE	-5.51	6.20
1993 5 13	17 48	321 NW	0.38	15.85	150 SSE	-13.73	7.93
1993 5 13	19 48	305 NW	0.35	10.53	153 SSE	-9.36	4.82
1993 5 13	21 48	303 WNW	0.33	7.09	25 NNE	6.41	3.04
1993 5 13	23 48	302 WNW	0.35	13.21	354 N	13.13	-1.49
Average		308 NW		13.03		-1.39	6.00
Maximum				24.05			
1993 5 14	1 48	308 NW	0.45	11.93	8 N	11.81	1.71
1993 5 14	3 48	295 WNW	0.33	7.02	91 E	-0.18	7.02
1993 5 14	5 48	321 NW	0.34	16.40	139 SE	-12.32	10.83
1993 5 14	7 48	308 NW	0.50	16.39	148 SSE	-13.82	8.80
1993 5 14	9 48	303 WNW	0.38	7.17	121 ESE	-3.74	6.12
1993 5 14	11 48	320 NW	0.41	9.89	1 N	9.89	0.25
1993 5 14	13 48	322 NW	0.45	17.07	354 N	16.99	-1.72
1993 5 14	15 48	311 NW	0.38	11.05	354 N	10.99	-1.18
1993 5 14	17 48	307 NW	0.76	5.83	73 ENE	1.67	5.58
1993 5 14	19 48	312 NW	0.41	10.59	132 SE	-7.03	7.91
1993 5 14	21 48	306 NW	0.63	7.53	125 SE	-4.35	6.15
1993 5 14	23 48	302 WNW	0.58	4.48	18 NNE	4.26	1.37
Average		310 NW		10.45		1.18	4.40
Maximum				17.07			
1993 5 15	1 48	332 NNW	0.47	9.73	8 N	9.62	1.42
1993 5 15	3 48	301 WNW	0.45	5.45	56 NE	3.06	4.51
1993 5 15	5 48	317 NW	0.35	11.53	141 SE	-8.91	7.32
1993 5 15	7 48	315 NW	0.41	18.40	140 SE	-14.09	11.84
1993 5 15	9 48	304 NW	0.63	16.35	134 SE	-11.33	11.79
1993 5 15	11 48	307 NW	0.45	6.22	46 NE	4.30	4.50
1993 5 15	13 48	306 NW	0.58	14.65	3 N	14.63	0.64
1993 5 15	15 48	300 WNW	0.52	14.91	349 N	14.65	-2.78
1993 5 15	17 48	280 W	0.41	2.63	36 NE	2.14	1.53
1993 5 15	19 48	301 WNW	0.45	11.49	133 SE	-7.84	8.39
1993 5 15	21 48	318 NW	0.53	19.87	143 SE	-15.94	11.86
1993 5 15	23 48	312 NW	0.41	12.77	114 ESE	-5.26	11.64
Average		308 NW		12.00		-1.25	6.06
Maximum				19.87			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 16	1 48	307 NW	0.45	5.67	27 NNE	5.07	2.55
1993 5 16	3 48	312 NW	0.50	8.40	14 NNE	8.14	2.07
1993 5 16	5 48	304 NW	0.41	6.98	106 ESE	-1.97	6.69
1993 5 16	7 48	305 NW	0.35	12.47	144 SE	-10.06	7.38
1993 5 16	9 48	302 WNW	0.50	13.29	152 SSE	-11.76	6.20
1993 5 16	11 48	309 NW	0.45	10.91	114 ESE	-4.37	9.99
1993 5 16	13 48	304 NW	0.45	10.96	15 NNE	10.61	2.76
1993 5 16	15 48	299 WNW	0.45	14.39	4 N	14.36	0.95
1993 5 16	17 48	291 WNW	0.71	11.17	26 NNE	10.02	4.94
1993 5 16	19 48	311 NW	0.45	11.09	136 SE	-7.98	7.70
1993 5 16	21 48	315 NW	0.58	19.03	148 SSE	-16.05	10.21
1993 5 16	23 48	317 NW	0.58	16.08	143 SE	-12.80	9.74
Average		306 NW		11.70		-1.40	5.93
Maximum				19.03			
1993 5 17	1 48	282 WNW	0.45	11.39	66 ENE	4.69	10.38
1993 5 17	3 48	315 NW	0.45	15.07	357 N	15.05	-0.75
1993 5 17	5 48	308 NW	0.53	10.89	5 N	10.84	0.96
1993 5 17	7 48	291 WNW	0.30	8.90	126 SE	-5.27	7.18
1993 5 17	9 48	309 NW	0.58	18.81	151 SSE	-16.45	9.11
1993 5 17	11 48	316 NW	0.58	13.66	141 SE	-10.69	8.51
1993 5 17	13 48	279 W	0.58	7.46	59 ENE	3.88	6.37
1993 5 17	15 48	302 WNW	0.53	20.48	347 NNW	19.92	-4.77
1993 5 17	17 48	299 WNW	0.38	16.51	352 N	16.35	-2.30
1993 5 17	19 48	295 WNW	0.30	5.57	54 NE	3.25	4.52
1993 5 17	21 48	299 WNW	0.44	20.24	146 SE	-16.84	11.22
1993 5 17	23 48	301 WNW	0.50	21.68	146 SE	-18.05	12.00
Average		300 WNW		14.22		0.56	5.20
Maximum				21.68			
1993 5 18	1 48	293 WNW	0.33	8.21	97 E	-1.04	8.15
1993 5 18	3 48	299 WNW	0.33	15.60	7 N	15.49	1.91
1993 5 18	5 48	294 WNW	0.41	16.89	359 N	16.89	-0.37
1993 5 18	7 48	297 WNW	0.42	11.78	74 ENE	3.33	11.30
1993 5 18	9 48	311 NW	0.48	22.19	146 SE	-18.35	12.48
1993 5 18	11 48	314 NW	0.60	23.61	147 SSE	-19.74	12.95
1993 5 18	13 48	306 NW	0.34	13.57	124 SE	-7.68	11.19
1993 5 18	15 48	304 NW	0.34	19.03	356 N	18.98	-1.42
1993 5 18	17 48	309 NW	0.37	24.52	346 NNW	23.76	-6.04
1993 5 18	19 48	303 WNW	0.33	10.39	12 NNE	10.16	2.16
1993 5 18	21 48	305 NW	0.31	17.42	145 SE	-14.35	9.88
1993 5 18	23 48	305 NW	0.45	23.92	151 SSE	-21.00	11.46
Average		303 WNW		17.26		0.54	6.14
Maximum				24.52			
1993 5 19	1 48	302 WNW	0.34	15.02	138 SE	-11.13	10.08
1993 5 19	3 48	298 WNW	0.31	16.07	9 N	15.89	2.40
1993 5 19	5 48	305 NW	0.33	22.07	356 N	22.02	-1.43
1993 5 19	7 48	309 NW	0.31	13.23	13 NNE	12.87	3.08
1993 5 19	9 48	308 NW	0.33	20.15	145 SE	-16.60	11.42
1993 5 19	11 48	306 NW	0.49	27.62	157 SSE	-25.36	10.92
1993 5 19	13 48	297 WNW	0.40	23.07	152 SSE	-20.45	10.69
1993 5 19	15 48	297 WNW	0.26	17.20	22 NNE	15.91	6.53
1993 5 19	17 48	306 NW	0.41	27.43	343 NNW	26.23	-8.04
1993 5 19	19 48	310 NW	0.40	17.82	358 N	17.81	-0.73
1993 5 19	21 48	306 NW	0.29	15.08	131 SE	-9.99	11.29
1993 5 19	23 48	302 WNW	0.48	30.44	152 SSE	-26.82	14.40
Average		304 NW		20.43		0.03	5.88
Maximum				30.44			
1993 5 20	1 48	301 WNW	0.28	26.82	155 SSE	-24.36	11.20
1993 5 20	3 48	289 WNW	0.39	10.22	32 NNE	8.65	5.46
1993 5 20	5 48	293 WNW	0.26	26.08	345 NNW	25.14	-6.97
1993 5 20	7 48	296 WNW	0.33	20.45	358 N	20.43	-0.88
1993 5 20	9 48	293 WNW	0.41	8.65	95 E	-0.71	8.62
1993 5 20	11 48	299 WNW	0.54	32.37	159 SSE	-30.27	11.48
1993 5 20	13 48	297 WNW	0.51	27.32	160 SSE	-25.74	9.15
1993 5 20	15 48	296 WNW	0.47	6.84	1 N	6.83	0.12
1993 5 20	17 48	304 NW	0.47	31.39	339 NNW	29.22	-11.45
1993 5 20	19 48	307 NW	0.49	29.40	343 NNW	28.16	-8.45
1993 5 20	21 48	294 WNW	0.52	9.03	69 ENE	3.24	8.43
1993 5 20	23 48	313 NW	0.51	32.30	155 SSE	-29.22	13.76
Average		299 WNW		21.74		0.95	3.37
Maximum				32.37			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 21	1 48	307 NW	0.57	30.28	159 SSE	-28.17	11.10
1993 5 21	3 48	305 NW	0.43	10.03	150 SSE	-8.70	4.98
1993 5 21	5 48	300 WNW	0.45	24.53	350 N	24.17	-4.19
1993 5 21	7 48	299 WNW	0.45	24.03	350 N	23.67	-4.15
1993 5 21	9 48	285 WNW	0.49	10.58	78 ENE	2.26	10.34
1993 5 21	11 48	308 NW	0.57	32.11	156 SSE	-29.36	13.01
1993 5 21	13 48	301 WNW	0.55	28.85	153 SSE	-25.81	12.89
1993 5 21	15 48	299 WNW	0.45	8.54	117 ESE	-3.85	7.62
1993 5 21	17 48	303 WNW	0.53	30.04	337 NNW	27.70	-11.63
1993 5 21	19 48	319 NW	0.58	33.72	342 NNW	32.13	-10.23
1993 5 21	21 48	291 WNW	0.35	13.06	13 NNE	12.72	2.96
1993 5 21	23 48	311 NW	0.40	27.92	149 SSE	-24.01	14.24
Average		302 WNW		22.81		0.23	3.91
Maximum				33.72			
1993 5 22	1 48	334 NNW	0.49	41.07	156 SSE	-37.56	16.60
1993 5 22	3 48	306 NW	0.42	18.20	145 SE	-14.86	10.49
1993 5 22	5 48	307 NW	0.52	21.54	358 N	21.52	-0.83
1993 5 22	7 48	296 WNW	0.43	27.49	352 N	27.25	-3.60
1993 5 22	9 48	287 WNW	0.45	13.79	25 NNE	12.50	5.84
1993 5 22	11 48	313 NW	0.58	25.04	149 SSE	-21.42	12.97
1993 5 22	13 48	320 NW	0.65	32.62	155 SSE	-29.61	13.68
1993 5 22	15 48	314 NW	0.45	16.41	149 SSE	-14.07	8.44
1993 5 22	17 48	306 NW	0.43	26.14	352 N	25.86	-3.82
1993 5 22	19 48	320 NW	0.53	33.12	341 NNW	31.40	-10.52
1993 5 22	21 48	293 WNW	0.35	25.89	357 N	25.86	-1.43
1993 5 22	23 48	312 NW	0.48	20.17	137 SE	-14.76	13.75
Average		309 NW		25.12		1.01	5.13
Maximum				41.07			
1993 5 23	1 48	324 NW	0.59	37.01	154 SSE	-33.19	16.38
1993 5 23	3 48	315 NW	0.56	27.77	153 SSE	-24.84	12.41
1993 5 23	5 48	297 WNW	0.41	15.93	24 NNE	14.57	6.45
1993 5 23	7 48	315 NW	0.63	33.75	343 NNW	32.25	-9.97
1993 5 23	9 48	302 WNW	0.50	21.76	357 N	21.72	-1.32
1993 5 23	11 48	317 NW	0.58	14.67	133 SE	-10.08	10.65
1993 5 23	13 48	320 NW	0.61	36.74	158 SSE	-34.02	13.89
1993 5 23	15 48	307 NW	0.53	24.31	153 SSE	-21.70	10.95
1993 5 23	17 48	307 NW	0.53	18.20	3 N	18.17	1.04
1993 5 23	19 48	311 NW	0.57	36.69	337 NNW	33.69	-14.52
1993 5 23	21 48	311 NW	0.49	29.42	349 N	28.92	-5.39
1993 5 23	23 48	301 WNW	0.46	11.22	96 E	-1.14	11.16
Average		311 NW		25.62		2.03	4.31
Maximum				37.01			
1993 5 24	1 48	314 NW	0.65	37.49	150 SSE	-32.52	18.65
1993 5 24	3 48	311 NW	0.56	29.04	154 SSE	-26.01	12.91
1993 5 24	5 48	299 WNW	0.51	5.13	153 SSE	-4.58	2.32
1993 5 24	7 48	311 NW	0.60	32.40	348 NNW	31.64	-6.98
1993 5 24	9 48	302 WNW	0.49	26.97	348 NNW	26.42	-5.45
1993 5 24	11 48	294 WNW	0.52	9.76	69 ENE	3.58	9.08
1993 5 24	13 48	328 NNW	0.75	30.14	160 SSE	-28.41	10.06
1993 5 24	15 48	307 NW	0.52	25.33	156 SSE	-23.07	10.45
1993 5 24	17 48	298 WNW	0.34	3.04	72 ENE	0.93	2.89
1993 5 24	19 48	322 NW	0.54	34.11	344 NNW	32.74	-9.58
1993 5 24	21 48	314 NW	0.50	33.76	339 NNW	31.50	-12.16
1993 5 24	23 48	298 WNW	0.39	10.64	34 NE	8.83	5.93
Average		308 NW		23.15		1.75	3.18
Maximum				37.49			
1993 5 25	1 48	311 NW	0.37	28.23	152 SSE	-25.01	13.09
1993 5 25	3 48	311 NW	0.43	31.32	155 SSE	-28.27	13.48
1993 5 25	5 48	304 NW	0.26	12.04	136 SE	-8.63	8.39
1993 5 25	7 48	289 WNW	0.31	28.54	352 N	28.24	-4.15
1993 5 25	9 48	299 WNW	0.38	29.27	348 NNW	28.65	-5.99
1993 5 25	11 48	293 WNW	0.39	11.78	24 NNE	10.77	4.77
1993 5 25	13 48	298 WNW	0.26	21.52	155 SSE	-19.51	9.09
1993 5 25	15 48	302 WNW	0.34	28.47	155 SSE	-25.82	12.00
1993 5 25	17 48	304 NW	0.27	13.08	145 SE	-10.69	7.54
1993 5 25	19 48	298 WNW	0.27	27.65	350 N	27.24	-4.75
1993 5 25	21 48	303 WNW	0.38	28.54	344 NNW	27.48	-7.68
1993 5 25	23 48	293 WNW	0.28	18.23	2 N	18.21	0.79
Average		300 WNW		23.22		1.89	3.88
Maximum				31.32			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 26	1 48	303 WNW	0.26	21.80	142 SE	-17.16	13.45
1993 5 26	3 48	306 NW	0.37	34.04	156 SSE	-31.13	13.79
1993 5 26	5 48	302 WNW	0.29	24.65	149 SSE	-21.22	12.55
1993 5 26	7 48	291 WNW	0.32	10.30	13 NNE	10.03	2.35
1993 5 26	9 48	300 WNW	0.25	27.40	347 NNW	26.72	-6.04
1993 5 26	11 48	297 WNW	0.33	15.87	3 N	15.84	0.96
1993 5 26	13 48	296 WNW	0.37	9.73	128 SE	-5.99	7.67
1993 5 26	15 48	306 NW	0.31	35.82	160 SSE	-33.56	12.52
1993 5 26	17 48	307 NW	0.29	23.41	163 SSE	-22.40	6.80
1993 5 26	19 48	301 WNW	0.28	11.16	8 N	11.06	1.50
1993 5 26	21 48	311 NW	0.25	25.60	346 NNW	24.83	-6.22
1993 5 26	23 48	299 WNW	0.24	19.18	351 N	18.94	-3.02
Average		302 WNW		21.58		-2.00	4.69
Maximum				35.82			
1993 5 27	1 48	295 WNW	0.25	9.99	118 ESE	-4.63	8.85
1993 5 27	3 48	309 NW	0.29	39.93	155 SSE	-36.06	17.15
1993 5 27	5 48	303 WNW	0.35	32.93	158 SSE	-30.43	12.57
1993 5 27	7 48	297 WNW	0.31	11.92	126 SE	-7.07	9.60
1993 5 27	9 48	298 WNW	0.23	19.72	352 N	19.54	-2.65
1993 5 27	11 48	307 NW	0.24	19.77	354 N	19.66	-2.14
1993 5 27	13 48	295 WNW	0.29	8.10	23 NNE	7.45	3.19
1993 5 27	15 48	300 WNW	0.24	26.45	166 SSE	-25.71	6.20
1993 5 27	17 48	300 WNW	0.26	28.61	159 SSE	-26.74	10.18
1993 5 27	19 48	297 WNW	0.25	13.96	165 SSE	-13.50	3.55
1993 5 27	21 48	306 NW	0.19	20.45	343 NNW	19.55	-6.00
1993 5 27	23 48	307 NW	0.19	23.99	348 NNW	23.45	-5.06
Average		301 WNW		21.32		-4.54	4.62
Maximum				39.93			
1993 5 28	1 48	293 WNW	0.23	10.75	34 NE	8.91	6.02
1993 5 28	3 48	294 WNW	0.25	28.20	154 SSE	-25.30	12.47
1993 5 28	5 48	298 WNW	0.28	36.51	157 SSE	-33.62	14.23
1993 5 28	7 48	293 WNW	0.25	24.61	153 SSE	-21.84	11.34
1993 5 28	9 48	289 WNW	0.23	13.69	45 NE	9.63	9.72
1993 5 28	11 48	293 WNW	0.21	20.01	356 N	19.96	-1.33
1993 5 28	13 48	296 WNW	0.23	12.93	9 N	12.76	2.08
1993 5 28	15 48	299 WNW	0.28	15.64	151 SSE	-13.70	7.55
1993 5 28	17 48	294 WNW	0.24	29.76	156 SSE	-27.27	11.93
1993 5 28	19 48	293 WNW	0.24	20.73	162 SSE	-19.70	6.47
1993 5 28	21 48	292 WNW	0.22	7.98	27 NNE	7.08	3.67
1993 5 28	23 48	300 WNW	0.21	17.41	356 N	17.36	-1.36
Average		295 WNW		19.85		-5.48	6.90
Maximum				36.51			
1993 5 29	1 48	294 WNW	0.28	11.48	18 NNE	10.91	3.56
1993 5 29	3 48	298 WNW	0.22	15.15	132 SE	-10.09	11.30
1993 5 29	5 48	300 WNW	0.30	29.39	150 SSE	-25.46	14.67
1993 5 29	7 48	301 WNW	0.28	29.35	155 SSE	-26.68	12.23
1993 5 29	9 48	288 WNW	0.27	15.12	116 ESE	-6.55	13.63
1993 5 29	11 48	293 WNW	0.22	16.00	357 N	15.98	-0.87
1993 5 29	13 48	300 WNW	0.25	16.18	347 NNW	15.79	-3.53
1993 5 29	15 48	288 WNW	0.31	4.04	37 NE	3.23	2.43
1993 5 29	17 48	291 WNW	0.24	21.92	161 SSE	-20.73	7.12
1993 5 29	19 48	295 WNW	0.26	21.55	166 SSE	-20.92	5.19
1993 5 29	21 48	297 WNW	0.26	12.85	142 SE	-10.15	7.88
1993 5 29	23 48	292 WNW	0.29	13.48	15 NNE	13.01	3.54
Average		295 WNW		17.21		-5.14	6.43
Maximum				29.39			
1993 5 30	1 48	299 WNW	0.26	10.93	8 N	10.83	1.49
1993 5 30	3 48	294 WNW	0.27	6.68	52 NE	4.13	5.25
1993 5 30	5 48	300 WNW	0.21	23.24	145 SE	-19.01	13.36
1993 5 30	7 48	304 NW	0.28	28.60	156 SSE	-26.19	11.50
1993 5 30	9 48	302 WNW	0.46	16.85	161 SSE	-15.89	5.61
1993 5 30	11 48	309 NW	0.49	4.24	16 NNE	4.08	1.13
1993 5 30	13 48	308 NW	0.36	21.22	336 NNW	19.42	-8.55
1993 5 30	15 48	306 NW	0.31	13.61	350 N	13.42	-2.31
1993 5 30	17 48	296 WNW	0.39	2.11	93 E	-0.11	2.11
1993 5 30	19 48	301 WNW	0.36	17.38	163 SSE	-16.65	4.96
1993 5 30	21 48	301 WNW	0.39	18.34	162 SSE	-17.40	5.80
1993 5 30	23 48	292 WNW	0.45	1.01	66 ENE	0.41	0.92
Average		301 WNW		13.68		-3.58	3.44
Maximum				28.60			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Velocity (cm/s)	Current		
		Direction (Deg)	Concen- tration		Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 5 31	1 48	309 NW	0.31	14.73	342 NNW	14.01	-4.53
1993 5 31	3 48	303 WNW	0.33	12.02	5 N	11.98	1.00
1993 5 31	5 48	288 WNW	0.41	7.95	79 E	1.51	7.81
1993 5 31	7 48	295 WNW	0.33	22.30	148 SSE	-18.90	11.85
1993 5 31	9 48	313 NW	0.41	25.13	161 SSE	-23.73	8.27
1993 5 31	11 48	300 WNW	0.42	11.75	165 SSE	-11.34	3.08
1993 5 31	13 48	307 NW	0.29	11.43	342 NNW	10.86	-3.54
1993 5 31	15 48	309 NW	0.34	24.97	332 NNW	21.97	-11.85
1993 5 31	17 48	307 NW	0.33	15.31	346 NNW	14.87	-3.63
1993 5 31	19 48	290 WNW	0.38	4.57	130 SE	-2.94	3.50
1993 5 31	21 48	305 NW	0.32	21.01	156 SSE	-19.15	8.64
1993 5 31	23 48	308 NW	0.34	21.27	160 SSE	-19.96	7.36
Average		303 WNW		16.04		-1.74	2.33
Maximum				25.13			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave			Current		
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 6 1	1 48	297 WNW	0.29	2.08	81 E	0.32	2.06
1993 6 1	3 48	299 WNW	0.22	13.30	345 NNW	12.83	-3.52
1993 6 1	5 48	301 WNW	0.26	9.04	6 N	8.98	0.98
1993 6 1	7 48	301 WNW	0.28	23.00	133 SE	-15.76	16.74
1993 6 1	9 48	323 NW	0.33	9.57	156 SSE	-8.72	3.95
1993 6 1	11 48	325 NW	0.38	7.31	159 SSE	-6.83	2.61
1993 6 1	13 48	290 WNW	0.25	4.52	125 SE	-2.57	3.71
1993 6 1	15 48	295 WNW	0.24	11.94	355 N	11.89	-1.07
1993 6 1	17 48	297 WNW	0.30	8.51	351 N	8.40	-1.36
1993 6 1	19 48	297 WNW	0.31	3.24	102 ESE	-0.65	3.17
1993 6 1	21 48	317 NW	0.38	9.31	167 SSE	-9.06	2.16
1993 6 1	23 48	309 NW	0.45	8.07	158 SSE	-7.46	3.08
Average		304 NW		9.16		-0.72	2.71
Maximum				23.00			
1993 6 2	1 48	305 NW	0.35	5.60	147 SSE	-4.69	3.05
1993 6 2	3 48	293 WNW	0.18	9.09	18 NNE	8.66	2.74
1993 6 2	5 48	293 WNW	0.22	8.86	1 N	8.86	0.08
1993 6 2	7 48	296 WNW	0.21	6.42	112 ESE	-2.44	5.94
1993 6 2	9 48	302 WNW	0.33	15.55	158 SSE	-14.45	5.74
1993 6 2	11 48	292 WNW	0.34	9.58	159 SSE	-8.96	3.41
1993 6 2	13 48	287 WNW	0.40	5.56	146 SE	-4.59	3.15
1993 6 2	15 48	287 WNW	0.30	13.55	345 NNW	13.06	-3.60
1993 6 2	17 48	294 WNW	0.49	16.71	336 NNW	15.30	-6.72
1993 6 2	19 48	290 WNW	0.38	7.73	1 N	7.73	0.11
1993 6 2	21 48	299 WNW	0.29	10.65	145 SE	-8.71	6.13
1993 6 2	23 48	299 WNW	0.48	16.58	165 SSE	-16.03	4.22
Average		295 WNW		10.49		-0.52	2.02
Maximum				16.71			
1993 6 3	1 48	301 WNW	0.39	12.13	165 SSE	-11.71	3.15
1993 6 3	3 48	288 WNW	0.37	8.81	360 N	8.81	-0.06
1993 6 3	5 48	299 WNW	0.50	17.55	335 NNW	15.96	-7.30
1993 6 3	7 48	285 WNW	0.35	10.67	359 N	10.66	-0.27
1993 6 3	9 48	295 WNW	0.33	10.67	134 SE	-7.47	7.63
1993 6 3	11 48	314 NW	0.54	23.02	156 SSE	-21.01	9.42
1993 6 3	13 48	299 WNW	0.33	12.29	156 SSE	-11.24	4.98
1993 6 3	15 48	294 WNW	0.46	8.16	358 N	8.15	-0.29
1993 6 3	17 48	308 NW	0.50	24.11	334 NNW	21.71	-10.49
1993 6 3	19 48	303 WNW	0.40	15.86	348 NNW	15.50	-3.40
1993 6 3	21 48	296 WNW	0.31	5.43	97 E	-0.67	5.39
1993 6 3	23 48	299 WNW	0.46	22.80	159 SSE	-21.32	8.09
Average		298 WNW		14.29		0.61	1.40
Maximum				24.11			
1993 6 4	1 48	307 NW	0.35	15.86	161 SSE	-14.96	5.25
1993 6 4	3 48	289 WNW	0.29	4.29	104 ESE	-1.02	4.16
1993 6 4	5 48	303 WNW	0.58	19.42	340 NNW	18.31	-6.49
1993 6 4	7 48	296 WNW	0.61	17.04	343 NNW	16.28	-5.05
1993 6 4	9 48	282 WNW	0.45	5.67	77 ENE	1.29	5.52
1993 6 4	11 48	305 NW	0.56	21.98	162 SSE	-20.89	6.83
1993 6 4	13 48	300 WNW	0.44	18.61	156 SSE	-17.04	7.47
1993 6 4	15 48	284 WNW	0.28	1.26	76 ENE	0.30	1.23
1993 6 4	17 48	300 WNW	0.42	23.50	337 NNW	21.61	-9.23
1993 6 4	19 48	309 NW	0.49	21.19	339 NNW	19.77	-7.63
1993 6 4	21 48	285 WNW	0.38	5.21	22 NNE	4.82	1.95
1993 6 4	23 48	304 NW	0.36	21.72	160 SSE	-20.42	7.41
Average		297 WNW		14.65		0.67	0.95
Maximum				23.50			
1993 6 5	1 48	301 WNW	0.39	22.76	155 SSE	-20.56	9.76
1993 6 5	3 48	285 WNW	0.47	10.13	136 SE	-7.28	7.05
1993 6 5	5 48	296 WNW	0.30	14.94	353 N	14.81	-1.93
1993 6 5	7 48	299 WNW	0.30	20.17	344 NNW	19.36	-5.68
1993 6 5	9 48	288 WNW	0.26	7.69	32 NNE	6.52	4.08
1993 6 5	11 48	309 NW	0.40	20.09	162 SSE	-19.06	6.35
1993 6 5	13 48	308 NW	0.45	24.00	157 SSE	-22.02	9.53
1993 6 5	15 48	301 WNW	0.30	8.80	163 SSE	-8.40	2.62
1993 6 5	17 48	310 NW	0.35	9.54	3 N	9.53	0.48
1993 6 5	19 48	304 NW	0.51	17.47	348 NNW	17.07	-3.72
1993 6 5	21 48	310 NW	0.32	6.49	20 NNE	6.08	2.27
1993 6 5	23 48	309 NW	0.31	13.34	142 SE	-10.49	8.23
Average		302 WNW		14.62		-1.20	3.25
Maximum				24.00			

WAVE DIRECTION AND CURRENT VELOCITY/DIRECTION DATA

Station : Tg. Piandang (Coast is 343 deg. from North)
 Month and Year: May 1993

Date	Time	Wave		Current			
		Direction (Deg)	Concen- tration	Velocity (cm/s)	Direction (Deg)	N-compo. (cm/s)	E-compo. (cm/s)
1993 6 6	1 48	312 NW	0.46	25.95	159 SSE	-24.19	9.40
1993 6 6	3 48	312 NW	0.31	13.46	156 SSE	-12.34	5.37
1993 6 6	5 48	286 WNW	0.33	8.42	9 N	8.31	1.32
1993 6 6	7 48	295 WNW	0.38	23.68	337 NNW	21.81	-9.24
1993 6 6	9 48	295 WNW	0.31	12.97	357 N	12.95	-0.73
1993 6 6	11 48	306 NW	0.35	10.87	137 SE	-7.90	7.46
1993 6 6	13 48	320 NW	0.47	25.32	164 SSE	-24.31	7.08
1993 6 6	15 48	310 NW	0.45	14.26	166 SSE	-13.81	3.55
1993 6 6	17 48	296 WNW	0.32	8.46	348 NNW	8.29	-1.70
1993 6 6	19 48	303 WNW	0.50	21.25	339 NNW	19.80	-7.73
1993 6 6	21 48	301 WNW	0.41	14.89	343 NNW	14.26	-4.30
1993 6 6	23 48	294 WNW	0.32	5.96	102 ESE	-1.29	5.82
Average		303 WNW		15.46		0.13	1.36
Maximum				25.95			
1993 6 7	1 48	318 NW	0.47	24.78	160 SSE	-23.21	8.67
1993 6 7	3 48	309 NW	0.40	16.08	164 SSE	-15.44	4.49
1993 6 7	5 48	288 WNW	0.28	3.00	84 E	0.30	2.98
1993 6 7	7 48	303 WNW	0.46	19.52	342 NNW	18.52	-6.17
1993 6 7	9 48	304 NW	0.50	14.59	345 NNW	14.10	-3.77
1993 6 7	11 48	300 WNW	0.30	4.70	88 E	0.16	4.69
1993 6 7	13 48	305 NW	0.55	20.96	162 SSE	-19.92	6.52
1993 6 7	15 48	304 NW	0.47	17.00	158 SSE	-15.73	6.44
1993 6 7	17 48	287 WNW	0.32	2.75	90 E	-0.01	2.75
1993 6 7	19 48	298 WNW	0.47	17.45	340 NNW	16.41	-5.92
1993 6 7	21 48	300 WNW	0.52	17.23	339 NNW	16.08	-6.18
1993 6 7	23 48	296 WNW	0.38	5.87	28 NNE	5.19	2.74
Average		301 WNW		13.66		-0.30	1.44
Maximum				24.78			
1993 6 8	1 48	306 NW	0.35	21.42	162 SSE	-20.37	6.64
1993 6 8	3 48	306 NW	0.25	23.47	157 SSE	-21.66	9.03
1993 6 8	5 48	306 NW	0.24	11.08	151 SSE	-9.71	5.33
1993 6 8	7 48	297 WNW	0.24	16.02	353 N	15.88	-2.04
1993 6 8	9 48	301 WNW	0.26	18.37	340 NNW	17.23	-6.38
1993 6 8	11 48	300 WNW	0.31	8.13	2 N	8.13	0.26
1993 6 8	13 48	306 NW	0.30	15.86	166 SSE	-15.42	3.72
1993 6 8	15 48	304 NW	0.35	17.79	168 SSE	-17.42	3.62
1993 6 8	17 48	300 WNW	0.26	8.95	159 SSE	-8.37	3.17
1993 6 8	19 48	292 WNW	0.24	15.21	342 NNW	14.49	-4.62
1993 6 8	21 48	297 WNW	0.25	15.51	337 NNW	14.29	-6.03
1993 6 8	23 48	296 WNW	0.32	8.65	353 N	8.59	-0.99
Average		301 WNW		15.04		-1.20	0.98
Maximum				23.47			
1993 6 9	1 48	297 WNW	0.25	14.00	151 SSE	-12.30	6.69
1993 6 9	3 48	304 NW	0.32	21.74	162 SSE	-20.68	6.70
1993 6 9	5 48	299 WNW	0.29	12.38	151 SSE	-10.82	6.02
1993 6 9	7 48	286 WNW	0.26	9.03	12 NNE	8.84	1.85
1993 6 9	9 48	294 WNW	0.32	15.78	346 NNW	15.30	-3.85
1993 6 9	11 48	298 WNW	0.32	10.01	356 N	9.99	-0.64
1993 6 9	13 48	301 WNW	0.24	11.28	144 SE	-9.10	6.66
1993 6 9	15 49	307 NW	0.31	18.01	165 SSE	-17.41	4.61
1993 6 9	21 49	297 WNW	0.39	19.07	336 NNW	17.45	-7.68
1993 6 9	23 49	295 WNW	0.41	12.41	347 NNW	12.11	-2.69

III. ELECTRIC CONDUCTIVITY DATA

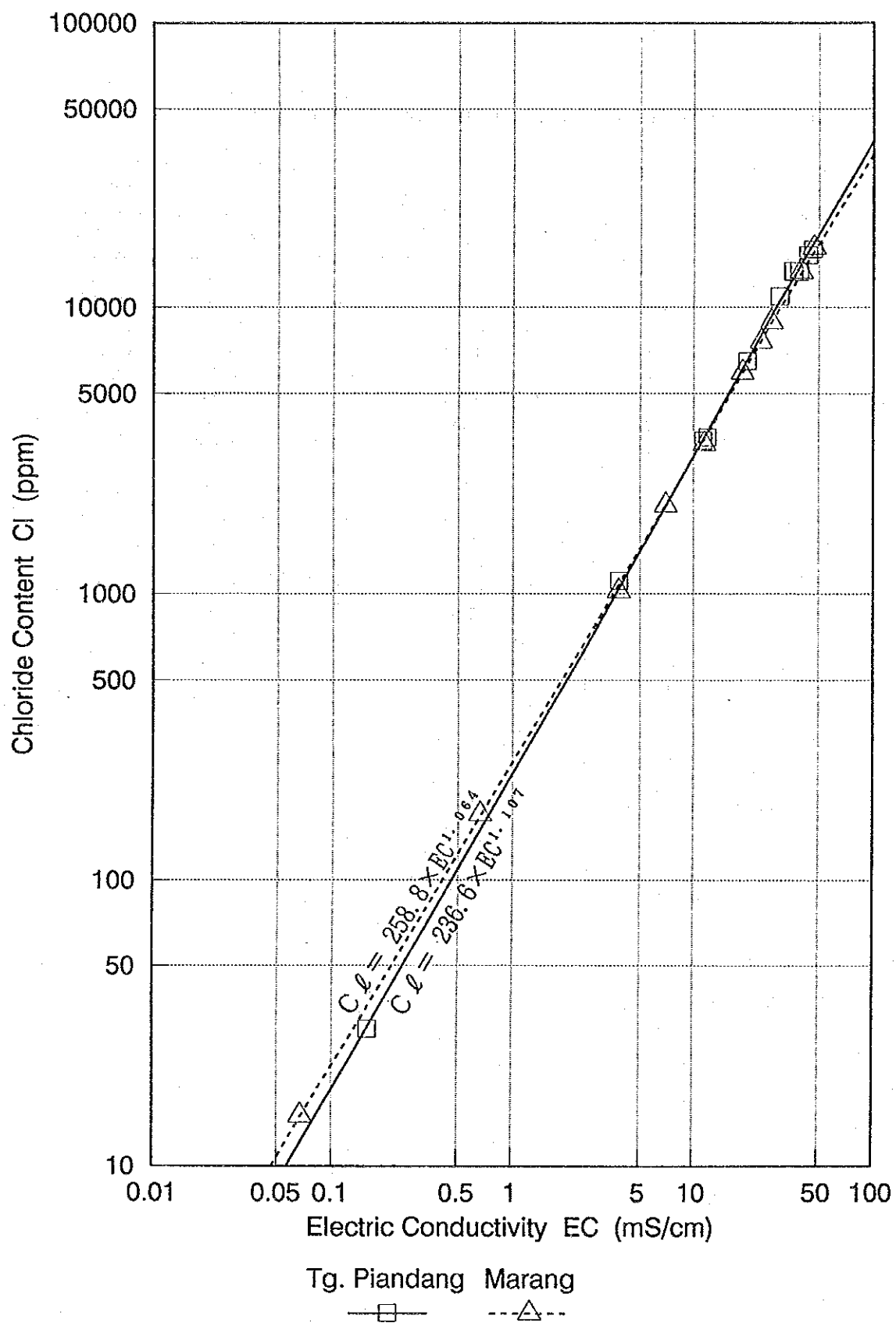
III. ELECTRIC CONDUCTIVITY DATA

1.	CHLORIDE CONTENT TEST RESULT	III-2
2.	ELECTRIC CONDUCTIVITY VS. CHLORIDE CONTENT CURVE	III-3
3.	RESULT OF ELECTRIC CONDUCTIVITY MEASUREMENT ON 13 OCT. 1992 IN TG. PIANDANG ...	III-4
4.	RESULT OF ELECTRIC CONDUCTIVITY MEASUREMENT ON 28 OCT. 1992 IN TG. PIANDANG ...	III-6
5.	RESULT OF ELECTRIC CONDUCTIVITY MEASUREMENT ON 6 OCT. 1992 IN MARANG	III-8
6.	RESULT OF ELECTRIC CONDUCTIVITY MEASUREMENT ON 23 OCT. 1992 IN MARANG	III-11

Table ELECTRIC CONDUCTIVITY AND CHLORIDE CONTENT OF WATER SAMPLES

River	Sample No.	Date of Sampling	Time	Temperature (C)	Electric Conductivity * (mS/cm)	Chloride Content Cl (ppm)
Tg. Piandang	T- 1	Oct.13 '92	9:00	30.7	0.157	30
	T- 2	Oct.13 '92	12:00	30.9	39.200	13,335
	T- 3	Oct.13 '92	12:10	31.0	46.400	15,925
	T- 4	Oct.13 '92	18:10	30.5	43.700	15,185
	T- 5	Oct.13 '92	18:20	30.1	36.300	13,335
	T- 6	Oct.13 '92	18:25	30.4	3.820	1,110
	T- 7	Oct.13 '92	18:35	30.0	11.340	3,425
	T- 8	Oct.13 '92	18:40	29.9	11.990	3,520
	T- 9	Oct.14 '92	9:15	28.8	20.000	6,480
	T-10	Oct.14 '92	9:15	29.0	30.600	10,925
Marang	M- 1	Oct. 5 '92	15:10	29.7	27.600	8,890
	M- 2	Oct. 5 '92	15:15	30.3	24.000	7,590
	M- 3	Oct. 5 '92	15:30	29.9	18.800	5,925
	M- 4	Oct. 5 '92	15:45	29.5	11.500	3,335
	M- 5	Oct. 5 '92	15:55	28.4	6.980	2,035
	M- 6	Oct. 5 '92	16:10	27.1	3.800	1,020
	M- 7	Oct. 5 '92	16:25	26.2	0.068	15
	M- 8	Oct. 5 '92	16:40	26.2	0.659	170
	M- 9	Oct. 6 '92	9:00	28.8	47.200	16,110
	M-10	Oct. 7 '92	8:35	28.7	40.200	13,335

* : Converted value under temperature of 25 degree centigrade



THE NATIONAL RIVER MOUTHS STUDY
IN MALAYSIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Table (1/2) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (TG.PIANDANG RIVER 1ST SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	
EC 1	13/10/92	12:10	1.2	28.7	35.60	12.344	28.2	32.40	11.122	28.3	32.40	11.122	28.3	32.40	11.122	28.0	32.30	11.084	27.8	31.70	10.856	Depth
		14:10	2.5	30.9	39.90	14.005	29.9	35.60	12.344	28.9	32.40	11.122	28.4	31.10	10.629	28.4	30.60	10.440	28.3	29.30	9.950	
		16:10	2.0	30.4	39.50	13.850	29.7	35.60	12.344	29.5	35.10	12.153	29.4	34.60	11.961	29.3	34.60	11.961	28.4	33.10	11.388	
		18:05	1.2	31.0	41.50	14.628	30.0	34.80	12.038	28.6	33.20	11.427	28.5	33.10	11.388	28.5	33.10	11.388	28.8	33.30	11.455	
		20:07	0.3	29.4	19.20	6.232	27.6	31.70	10.856	27.6	31.70	10.856	27.6	31.70	10.856	27.6	31.70	10.856	27.8	31.50	10.781	
		21:55	1.0	29.3	27.40	9.239	28.8	33.20	11.427	28.8	32.50	11.160	28.7	30.30	10.327	27.9	30.90	10.554	28.1	31.10	10.629	
EC 2	14/10/92	00:10	2.3	28.8	34.80	12.038	28.8	32.10	11.008	27.8	31.20	10.667	27.8	30.70	10.478	28.0	30.10	10.252	28.0	29.90	10.176	Depth
		2:10	3.2	28.3	34.60	11.961	27.8	32.10	11.008	27.8	31.20	10.667	27.8	30.70	10.478	28.0	30.10	10.252	28.0	29.90	10.176	
		4:08	3.2	28.2	34.80	12.038	27.9	32.10	11.008	27.9	31.40	10.743	27.9	30.90	10.554	28.1	30.70	10.478	28.2	30.70	10.478	
		6:10	2.2	28.0	34.30	11.846	28.0	34.10	11.770	28.0	33.10	11.388	28.1	30.80	10.516	28.0	30.70	10.478	28.2	30.90	10.554	
		8:13	0.7	27.1	29.90	10.176	27.2	30.00	10.214	27.4	30.00	10.214	27.5	30.00	10.214	27.8	30.00	10.214	28.2	29.60	10.214	
		9:57	0.2	29.0	22.80	7.538	30.2	33.90	11.694	30.1	33.80	11.655	29.9	33.70	11.617	29.5	33.60	11.579	29.2	33.60	11.579	
EC 3	13/10/92	12:00	1.0	29.3	47.70	17.066	29.3	29.10	9.875	29.1	46.10	16.434	29.1	46.30	16.513	29.0	44.90	15.961	29.1	45.20	15.079	Depth
		14:02	1.5	30.4	39.40	13.811	29.1	27.50	9.276	29.0	30.40	10.365	28.9	30.00	10.214	28.8	29.10	9.875	28.5	34.10	11.770	
		16:00	1.5	31.6	47.30	16.908	31.0	20.20	6.592	30.5	36.50	12.690	29.8	35.60	12.344	28.8	32.90	11.312	28.5	30.60	10.440	
		18:00	0.6	30.9	34.30	11.846	30.9	17.20	5.518	30.1	34.70	11.999	30.1	35.00	12.114	28.8	33.70	11.617	28.6	34.10	11.770	
		20:00	0.4	29.2	4.50	1.251	-	-	-	29.4	11.20	3.432	29.4	11.40	3.432	28.5	34.90	12.076	28.1	32.80	11.274	
		22:13	0.7	28.9	4.60	1.281	-	-	-	28.5	34.50	11.923	28.5	34.40	11.885	28.5	34.90	12.076	28.3	32.80	11.274	
EC 3	14/10/92	00:00	0.8	28.8	49.30	17.701	28.8	21.00	6.882	28.7	37.00	12.883	28.8	35.30	12.229	28.3	33.40	11.503	28.2	33.10	11.388	Depth
		2:00	1.6	28.4	33.20	11.427	28.5	16.00	5.093	28.6	32.10	11.008	28.4	31.90	10.932	28.6	31.90	10.591	28.8	30.70	10.478	
		4:00	1.3	28.4	34.50	11.923	28.3	48.90	17.542	28.3	34.10	11.770	28.0	32.00	11.046	28.0	30.50	10.402	28.4	30.00	10.214	
		6:02	0.8	27.7	33.80	11.655	27.8	46.80	16.710	27.8	33.80	11.655	27.9	31.60	10.819	27.8	29.80	10.138	28.2	29.80	10.138	
		8:00	0.2	27.8	27.70	9.351	28.1	32.90	11.312	28.0	30.20	10.289	28.0	30.20	10.289	28.0	30.20	10.289	27.5	29.60	10.063	
		10:55	0.3	30.1	19.50	5.340	-	-	-	29.4	31.20	10.667	29.4	31.20	10.667	-	-	-	29.2	30.00	10.214	
EC 3	13/10/92	12:15	1.0	30.5	3.56	965	30.6	3.66	995	30.6	30.60	10.440	30.6	5.60	1.593	30.6	6.23	1.793	30.5	4.95	1.390	Depth
		14:17	1.5	31.7	13.38	4.178	31.7	25.40	8.495	31.8	31.90	10.932	31.8	28.80	9.763	31.9	31.80	10.894	30.5	15.60	4.952	
		16:00	1.4	31.8	12.66	3.930	31.8	16.50	5.270	31.8	31.80	10.894	32.0	21.40	7.027	32.0	31.90	10.932	31.3	10.90	3.330	
		18:00	1.0	30.8	3.37	908	30.8	3.47	938	30.8	30.80	10.516	30.8	4.65	1.266	30.8	17.39	5.585	30.7	9.99	3.024	
		20:00	0.5	30.3	0.35	74	-	-	-	30.3	30.30	10.327	-	-	-	-	-	-	30.3	0.39	83	
		22:00	0.4	30.2	0.29	60	-	-	-	30.2	30.20	10.289	-	-	-	-	-	-	30.2	0.32	67	
EC 3	14/10/92	00:00	1.0	29.8	27.60	9.313	29.1	28.20	9.538	29.1	29.10	9.875	29.1	31.20	10.667	29.1	33.50	11.541	29.8	34.30	11.846	Depth
		2:00	1.6	29.4	41.70	14.706	29.4	42.20	14.902	29.4	29.40	9.988	29.5	43.60	15.450	29.5	44.20	15.685	29.7	35.60	12.344	
		4:05	1.6	29.2	30.00	10.214	29.4	41.10	14.472	29.4	43.10	15.354	29.4	43.80	15.528	29.5	43.80	15.528	29.6	34.70	11.999	
		6:00	1.1	29.2	26.10	8.755	29.2	26.30	8.829	29.2	26.30	8.829	29.4	27.20	9.164	29.4	29.40	9.988	29.5	28.30	9.575	
		8:00	0.4	28.9	10.68	3.256	-	-	-	28.9	10.65	3.246	-	-	-	-	-	-	28.9	10.79	3.293	
		10:00	0.4	29.6	0.57	127	31.0	0.47	103	29.6	0.57	127	30.9	0.45	98	30.9	0.40	86	29.5	0.62	139	

(to be continued)

Table (2/2) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (TG.PIANDANG RIVER 1ST SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Water Depth	EC (mS/cm)	C1 (ppm)
				Temp (C)	EC (mS/cm)	C1 (ppm)	Temp (C)	EC (mS/cm)	C1 (ppm)	Temp (C)	EC (mS/cm)	C1 (ppm)	Temp (C)	EC (mS/cm)	C1 (ppm)	Temp (C)	EC (mS/cm)	C1 (ppm)	Temp (C)	EC (mS/cm)	C1 (ppm)			
EC 4	13/10/92	12:00	0.6	29.4	0.23	46	29.3	0.25	51	29.3	0.23	45	29.3	0.23	45	29.3	0.25	51	29.3	0.41	88			
		14:02	1.4	30.4	0.21	42	30.1	0.21	42	30.1	0.21	42	30.1	0.22	44	30.0	0.22	44	30.0	0.22	44			
		16:15	1.4	30.5	0.21	42	30.4	0.21	42	30.4	0.22	44	30.4	0.22	44	30.7	0.29	60	30.7	0.29	60			
		18:12	0.9	30.4	0.22	44	30.5	0.22	44	30.5	0.24	49	30.4	0.21	42	30.4	0.20	40	30.4	0.21	42			
		20:15	0.5	30.4	0.17	33	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29			
	22:15	0.5	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29	30.4	0.15	29				
	14/10/92	00:15	1.0	29.8	0.91	213	29.8	0.89	208	29.8	1.18	284	29.8	1.24	300	29.8	1.29	314	29.8	1.26	306			
		2:14	1.2	29.5	3.37	615	29.5	3.59	974	29.6	16.90	5,411	29.6	28.90	9,800	29.6	34.20	11,808	29.7	33.00	11,350			
		4:20	1.5	29.4	3.38	911	29.4	6.08	1,745	29.5	29.50	10,026	29.5	37.90	13,230	29.5	39.90	14,005	29.5	31.90	10,932			
		6:15	1.0	29.2	14.20	4,463	29.2	15.17	4,801	29.3	16.66	5,326	29.3	18.30	5,909	29.3	18.90	6,124	29.4	20.30	6,628			
8:13		0.5	29.5	0.23	46	29.5	0.22	44	29.5	0.22	44	29.5	0.22	44	29.5	0.22	44	29.5	0.22	44				
10:07	0.4	29.6	0.21	42	29.6	0.25	51	29.6	0.25	51	29.6	0.25	51	29.6	0.31	55	29.6	0.31	55					
12:10	0.6	30.4	0.18	35	30.40	0.18	35	30.5	0.18	35	30.4	0.18	35	30.4	0.18	35	30.4	0.19	38					
EC 5	13/10/92	11:08	0.7	28.2	0.11	21	28.2	0.13	25	28.2	0.13	25	28.2	0.13	25	28.2	0.14	27	28.2	0.14	27			
		12:02	0.6	28.7	0.12	23	28.6	0.14	27	28.6	0.14	27	28.6	0.16	31	28.6	0.16	31	28.6	0.17	33			
		14:02	0.8	29.9	0.13	25	29.9	0.13	25	30.2	0.35	74	29.8	0.16	31	30.0	0.36	76	30.0	0.36	76			
		16:03	0.5	30.7	0.24	49	30.2	0.13	25	30.2	0.13	25	30.2	0.13	25	30.2	0.14	27	30.2	0.14	27			
		18:02	0.4	30.2	0.10	18	30.1	0.14	27	30.1	0.14	27	30.1	0.14	27	30.0	0.14	27	30.0	0.14	27			
	20:05	0.2	30.1	0.12	23	30.1	0.15	29	30.1	0.15	29	30.1	0.15	29	30.1	0.15	29	30.0	0.14	27				
	22:04	0.1	30.1	0.12	23	30.1	0.15	29	30.1	0.15	29	30.1	0.15	29	30.1	0.15	29	30.0	0.14	27				
	14/10/92	00:01	0.2	29.4	0.25	51	29.3	0.26	53	29.4	0.30	62	29.3	0.26	53	29.3	0.26	53	29.3	0.30	62			
		2:08	0.8	29.3	0.22	44	29.3	0.26	53	29.3	0.26	53	29.2	0.26	53	29.3	0.26	53	29.3	0.26	53			
		4:06	0.8	29.2	1.67	417	29.1	1.87	473	29.2	3.67	998	29.2	20.14	6,571	29.0	30.81	10,520	29.0	30.81	10,520			
6:00		0.2	28.4	3.43	926	28.4	3.43	926	28.4	3.43	926	28.1	6.94	2,020	28.1	9.35	2,810	28.1	9.35	2,810				
8:11		0.2	29.1	0.14	27	29.1	0.14	27	29.1	0.14	27	28.9	0.15	29	29.1	0.14	27	28.9	0.16	31				
10:04	0.3	28.9	0.12	23	28.9	0.15	29	28.9	0.15	29	28.9	0.15	29	28.9	0.16	31	28.9	0.16	31					
12:03	0.2	29.6	0.14	27	29.6	0.14	27	29.6	0.14	27	29.6	0.16	31	29.6	0.16	31	29.6	0.16	31					
EC 6	13/10/92	11:15	0.6	28.3	0.11	21	28.3	0.13	25	28.3	0.13	25	28.3	0.13	25	28.3	0.14	27	28.3	0.14	27			
		12:09	0.6	28.7	0.12	23	28.6	0.14	27	28.6	0.14	27	28.6	0.16	31	28.6	0.16	31	28.6	0.17	33			
		14:08	0.9	29.7	0.13	25	29.5	0.14	27	29.6	0.14	27	29.7	0.14	27	29.5	0.14	27	29.5	0.17	33			
		16:10	1.0	29.8	0.12	23	29.7	0.14	27	29.7	0.14	27	29.7	0.14	27	29.5	0.14	27	29.5	0.17	33			
		18:12	0.8	30.2	0.10	18	30.1	0.12	23	30.2	0.13	25	30.1	0.13	25	30.2	0.15	29	30.1	0.13	25			
	20:11	0.7	30.1	0.10	18	30.1	0.13	25	30.1	0.13	25	30.1	0.14	27	30.1	0.14	27	30.1	0.15	29				
	22:10	0.8	30.1	0.11	21	30.1	0.15	29	30.1	0.15	29	30.1	0.15	29	30.1	0.14	27	30.1	0.15	29				
	14/10/92	00:09	0.9	29.8	0.13	25	29.9	0.14	27	29.9	0.14	27	29.9	0.15	29	29.8	0.15	29	29.8	0.15	29			
		2:15	1.0	29.6	0.19	38	29.6	0.20	40	29.6	0.22	44	29.6	0.22	44	29.6	0.22	44	29.6	0.22	44			
		4:15	0.9	29.6	0.14	27	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29			
6:05		1.1	29.4	0.14	27	29.4	0.15	29	29.5	0.15	29	29.5	0.15	29	29.4	0.15	29	29.3	0.16	31				
8:19		0.9	29.1	0.12	23	29.1	0.13	25	29.1	0.13	25	29.1	0.13	25	29.1	0.13	25	29.1	0.14	27				
10:09	0.7	28.9	0.12	23	28.9	0.16	31	28.9	0.16	31	28.9	0.16	31	28.9	0.16	31	28.9	0.16	31					
12:07	0.7	29.6	0.12	23	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29	29.6	0.15	29					

Table (1/2) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (TG.PIANDANG RIVER 2ND SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	
EC 1	27/10/92	12:15	1.2	25.5	29.90	10.176	25.7	31.10	10.629	27.2	30.40	10.355	27.2	30.20	10.289	27.1	30.20	10.289	26.9	29.40	9.988	
		14:07	2.6	26.2	35.40	12.688	26.4	36.20	12.575	26.6	35.20	12.191	26.7	33.60	11.579	27.4	32.60	11.198	27.3	32.50	11.160	
		16:07	2.5	26.7	30.50	10.402	26.4	32.10	11.008	26.6	32.40	11.122	26.9	31.20	10.667	27.4	30.30	10.377	27.3	30.70	10.478	
		18:07	1.2	27.1	28.30	9.575	27.1	28.10	9.500	27.2	28.10	9.500	27.2	28.10	9.500	27.2	28.10	9.500	27.2	29.30	9.950	
		20:20	0.2	26.2	30.80	10.516	26.3	31.10	10.629	26.4	31.10	10.629	26.6	31.20	10.667	26.7	31.20	10.667	26.9	31.90	10.932	
	28/10/92	21:52	0.7	24.8	19.40	6.304	24.8	19.60	6.376	24.9	19.60	6.376	25.0	19.60	6.376	25.1	19.60	6.376	25.2	19.50	6.340	
		00:07	2.0	26.7	34.70	11.999	26.3	34.60	11.961	26.8	34.10	11.770	27.0	32.80	11.274	27.1	32.30	11.084	27.2	32.30	11.084	
		2:05	3.0	26.8	37.60	13.114	26.7	36.80	13.578	26.8	36.90	13.617	26.8	39.00	13.656	26.9	38.90	13.617	26.9	37.60	13.114	
		4:07	2.4	28.9	33.50	11.541	29.0	32.20	11.046	28.9	32.10	11.008	28.9	31.70	10.856	28.9	31.70	10.856	30.0	32.60	11.198	
		6:07	1.0	26.3	32.00	10.970	26.5	31.10	10.629	26.6	31.10	10.629	26.9	30.90	10.554	26.2	31.00	10.591	26.9	31.00	10.591	
EC 2	27/10/92	8:16	0.8	25.7	27.50	9.276	25.7	28.00	9.463	25.8	28.20	9.538	25.9	28.30	9.575	25.9	28.50	9.650	27.2	28.40	9.613	
		10:00	0.3	25.8	24.00	7.978	27.1	26.40	9.988	27.1	26.30	9.950	27.2	26.20	9.913	27.3	26.20	9.913	27.2	28.90	9.800	
		12:05	0.2	28.0	19.10	6.196	-	-	-	-	-	-	-	-	-	-	-	-	27.1	33.00	11.350	
		12:05	0.7	25.4	25.50	8.532	25.4	25.50	8.532	25.4	25.50	8.532	25.4	26.30	8.829	25.5	26.60	8.940	25.7	26.40	8.866	
		14:00	1.3	25.6	18.70	6.053	25.0	27.80	9.388	25.3	30.90	10.554	26.4	30.60	10.440	26.2	27.60	9.313	26.2	28.30	9.575	
	28/10/92	16:00	1.0	25.8	27.10	9.127	25.9	28.30	9.575	26.0	29.60	10.413	26.4	31.30	10.705	26.6	27.60	9.313	26.5	28.50	9.650	
		18:00	0.9	25.8	25.20	8.421	25.9	26.90	9.052	26.0	29.20	9.913	26.4	30.20	10.289	26.6	27.60	9.313	26.5	28.50	9.650	
		20:10	0.4	25.2	8.10	2.397	25.3	13.60	4.254	26.1	23.20	7.684	26.3	25.40	8.495	26.4	25.40	8.495	26.2	24.40	8.126	
		22:20	0.5	25.2	12.40	3.841	25.3	13.00	4.047	26.1	13.50	4.220	26.3	18.20	5.874	26.8	28.40	9.613	26.0	27.50	9.276	
		00:00	1.2	25.8	28.40	9.613	25.9	24.80	8.273	26.4	29.30	9.950	26.6	29.80	10.138	26.8	29.40	9.988	26.8	29.40	9.988	
EC 3	27/10/92	2:00	1.3	26.2	32.90	11.312	26.5	28.20	9.538	26.9	36.70	12.767	27.0	37.20	12.980	26.9	37.01	12.887	26.7	34.90	12.076	
		4:07	1.6	26.4	44.50	15.803	26.4	37.50	13.076	26.5	37.50	13.076	26.5	33.50	11.541	26.5	31.20	10.667	26.7	29.70	10.101	
		6:00	1.0	25.1	31.60	10.819	26.0	31.20	10.667	26.0	30.80	10.516	26.2	30.70	10.478	26.4	30.00	10.214	26.6	27.70	9.351	
		8:00	0.5	25.0	17.10	5.482	25.2	21.10	6.918	25.8	25.30	8.458	26.0	26.90	9.052	26.1	27.30	9.201	26.2	27.10	9.127	
		11:05	0.2	26.3	12.60	3.910	-	-	-	-	-	-	-	-	-	-	-	-	27.3	27.00	9.059	
	28/10/92	12:00	0.3	26.8	14.20	4.463	-	-	-	-	-	-	-	-	-	-	-	-	26.7	24.70	8.236	
		12:00	0.8	25.8	0.51	112	-	-	-	-	-	-	25.5	0.57	127	-	-	-	25.6	5.43	1.540	
		14:00	1.4	25.6	11.02	3.371	25.6	11.41	3.503	25.6	12.08	3.731	25.7	12.15	3.755	25.7	12.15	3.755	25.7	11.80	3.636	
		16:00	1.5	26.4	15.84	5.037	26.4	15.89	5.054	26.3	15.87	5.047	26.2	15.85	5.040	26.3	15.85	5.040	26.3	15.70	4.987	
		18:00	1.0	25.8	15.88	5.051	25.8	3.32	893	25.8	2.31	598	25.8	1.5	376	25.8	1.00	237	26.0	13.54	4.234	
EC 3	28/10/92	20:00	0.5	26.0	15.46	4.903	-	-	-	-	-	-	26.0	15.3	4.854	-	-	-	26.0	14.91	4.770	
		22:00	0.4	25.8	6.18	1.777	-	-	-	-	-	-	25.8	6.83	1.985	-	-	-	25.8	13.50	4.220	
		00:00	1.0	25.5	10.22	3.101	26.0	9.69	2.923	26.4	9.98	3.020	25.5	9.45	2.843	26.6	11.43	3.510	25.5	10.83	3.306	
		2:00	1.5	25.6	9.50	2.860	26.6	38.60	13.501	26.7	41.50	14.628	26.4	9.98	3.020	26.4	9.98	3.020	26.7	10.81	3.300	
		4:00	1.5	25.5	12.63	3.920	26.6	25.80	8.643	25.8	16.44	5.248	26.9	42.70	15.097	27.0	44.00	15.607	27.0	43.40	15.371	
	28/10/92	6:00	1.0	25.7	16.34	5.213	25.8	25.80	8.643	25.8	16.44	5.248	25.8	17.07	5.471	25.8	17.34	5.567	25.8	12.02	3.711	
		8:03	0.3	25.3	1.53	379	-	-	-	-	-	-	-	-	-	-	-	-	25.3	1.54	382	
		10:00	0.1	25.5	10.01	3.030	-	-	-	-	-	-	-	-	-	-	-	-	25.5	10.01	3.030	
		12:00	0.4	26.6	0.37	79	-	-	-	-	-	-	26.6	0.37	79	-	-	-	26.7	0.51	112	

(to be continued)

Table (2/2) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (TG.PIANDANG RIVER 2ND SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	
EC 4	27/10/92	12:15	1.0	25.6	0.21	42	25.6	4.35	1.205	25.6	4.26	1.177	25.7	4.21	42	25.6	4.45	1.235	25.7	4.41	49	49
		14:15	1.5	25.6	4.13	1,137	25.7	0.16	31	25.7	0.16	31	25.7	0.16	31	25.7	0.16	31	25.7	0.16	31	
		16:15	1.4	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	
		18:15	1.0	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	
		20:15	0.7	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	25.9	0.16	31	
	28/10/92	22:15	0.5	25.8	0.16	31	25.8	0.16	31	25.8	0.16	31	25.8	0.16	31	25.8	0.16	31	25.8	0.16	31	49
		00:23	1.3	25.6	0.24	49	25.6	0.24	49	25.6	0.24	49	25.6	0.24	49	25.6	0.24	49	25.6	0.24	49	
		2:20	1.8	25.4	0.54	120	25.4	0.54	120	25.4	0.54	120	25.4	0.54	120	25.4	0.54	120	25.4	0.54	120	
		4:20	1.6	25.4	0.83	193	25.4	0.97	229	25.4	1.34	327	25.4	2.93	53	25.4	2.93	53	25.4	2.93	53	
		6:20	1.5	25.4	0.30	62	25.4	0.29	60	25.4	0.26	53	25.4	0.26	53	25.4	0.26	53	25.4	0.26	53	
EC 5	27/10/92	8:20	0.7	25.3	0.18	35	25.3	0.18	35	25.3	0.18	35	25.3	0.18	35	25.3	0.18	35	25.3	0.18	35	33
		10:10	0.6	25.4	0.17	33	25.4	0.17	33	25.4	0.17	33	25.4	0.17	33	25.4	0.17	33	25.4	0.17	33	
		12:11	0.7	26.4	0.17	33	26.4	0.17	33	26.4	0.17	33	26.4	0.17	33	26.4	0.17	33	26.4	0.17	33	
		12:15	1.4	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	
		14:10	1.6	25.3	0.15	29	25.3	0.15	29	25.3	0.15	29	25.3	0.15	29	25.3	0.15	29	25.3	0.15	29	
	28/10/92	16:10	1.6	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	29
		18:15	1.5	25.6	0.14	27	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	
		20:10	1.4	25.5	0.12	23	25.5	0.13	29	25.5	0.13	29	25.5	0.13	29	25.5	0.13	29	25.5	0.13	29	
		22:12	1.2	25.6	0.14	27	25.6	0.14	27	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	
		00:11	1.2	25.4	0.12	23	25.4	0.12	23	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	25.4	0.15	29	
EC 6	27/10/92	2:10	2.0	25.3	0.13	29	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	29
		4:18	1.8	25.1	0.91	213	25.2	0.91	213	25.2	0.17	33	25.2	0.17	33	25.2	0.17	33	25.2	0.17	33	
		6:15	1.4	25.1	0.12	23	25.2	0.13	25	25.2	0.12	23	25.2	0.12	23	25.2	0.12	23	25.2	0.12	23	
		8:15	1.4	24.9	0.12	23	24.9	0.12	23	24.9	0.12	23	24.9	0.12	23	24.9	0.12	23	24.9	0.12	23	
		10:10	1.4	25.0	0.11	21	25.0	0.13	29	25.0	0.14	27	25.0	0.14	27	25.0	0.14	27	25.0	0.14	27	
	28/10/92	12:10	1.4	25.8	0.10	18	25.8	0.15	31	25.8	0.15	29	25.8	0.15	29	25.8	0.15	29	25.8	0.15	29	29
		12:00	2.0	25.4	0.15	29	25.4	0.16	31	25.4	0.16	31	25.4	0.16	31	25.4	0.16	31	25.4	0.16	31	
		14:00	2.2	25.3	0.15	29	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	25.3	0.16	31	
		16:00	2.2	25.4	0.12	23	25.4	0.14	27	25.4	0.14	27	25.4	0.14	27	25.4	0.14	27	25.4	0.14	27	
		18:00	2.0	25.6	0.11	21	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	25.6	0.15	29	
(the last portion)	27/10/92	20:00	1.8	25.5	0.14	27	25.5	0.14	27	25.5	0.14	27	25.5	0.14	27	25.5	0.14	27	25.5	0.14	27	29
		22:00	1.6	25.6	0.14	27	25.6	0.14	27	25.6	0.14	27	25.6	0.14	27	25.6	0.14	27	25.6	0.14	27	
		00:00	1.4	25.3	0.13	25	25.3	0.14	27	25.3	0.14	27	25.3	0.14	27	25.3	0.14	27	25.3	0.14	27	
		2:00	2.0	25.2	0.28	58	25.2	0.28	58	25.2	0.30	62	25.2	0.30	62	25.2	0.30	62	25.2	0.30	62	
		4:00	2.0	25.1	0.12	23	25.1	0.12	23	25.1	0.12	23	25.1	0.12	23	25.1	0.12	23	25.1	0.12	23	
	28/10/92	6:00	1.8	25.0	0.11	21	25.0	0.12	23	25.0	0.12	23	25.0	0.12	23	25.0	0.12	23	25.0	0.12	23	29
		8:00	1.8	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	
		10:00	1.8	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	25.3	0.12	23	
		12:00	2.0	25.8	0.12	23	25.8	0.15	29	25.8	0.15	29	25.8	0.15	29	25.8	0.15	29	25.8	0.15	29	

Table (1/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 1ST SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	
EC 1	06/10/92	12:50	3.0	29.4	32.80	10.613	29.5	34.10	11.062	29.5	40.00	13.109	29.4	43.30	14.262	29.4	44.20	14.578	29.9	44.10	14.543	
		14:40	1.5	29.0	26.30	8.391	29.2	28.30	9.071	29.3	29.50	9.181	29.3	32.80	10.813	29.3	32.80	10.813	29.3	38.40	12.551	
		16:40	1.5	29.3	23.40	7.410	29.3	25.30	8.052	29.3	25.60	8.153	29.3	26.50	8.459	29.4	31.90	10.304	29.4	36.50	11.892	
		18:35	1.5	29.2	22.00	6.939	29.3	23.50	7.444	29.3	24.50	7.781	29.3	27.60	8.833	29.0	32.00	10.751	29.40	32.00	10.338	
		20:45	1.5	28.9	19.20	6.003	29.0	19.90	6.237	29.0	20.20	6.337	29.1	20.50	6.437	29.0	21.70	6.838	29.2	27.30	8.731	
	07/10/92	22:50	1.5	28.7	22.30	7.040	28.9	22.30	7.040	28.9	22.40	7.073	29.0	22.40	7.073	29.0	22.30	7.040	29.2	24.50	7.781	
		12:55	1.5	28.8	24.30	7.713	28.9	24.70	7.849	28.9	25.50	8.119	29.0	25.70	8.187	29.0	26.40	8.425	29.0	26.20	8.357	
		1:25	1.5	29.2	30.20	9.721	29.2	29.90	9.618	29.2	30.00	9.652	29.3	30.30	9.755	29.3	30.20	9.721	29.3	29.90	9.618	
		3:10	2.0	29.4	51.00	16.975	29.4	51.00	16.975	29.4	51.00	16.975	29.4	51.00	16.975	29.4	51.00	16.975	29.4	51.00	16.975	
		6:40	2.5	29.3	51.20	17.046	29.3	51.20	17.046	29.3	51.20	17.046	29.3	51.10	17.011	29.3	51.20	17.046	29.3	50.10	16.857	
EC 2	06/10/92	8:41	2.0	29.2	50.80	16.905	29.2	50.80	16.905	29.2	50.80	16.905	29.2	50.80	16.905	29.2	50.80	16.905	29.3	50.80	16.905	
		10:35	2.0	29.0	35.00	11.372	-	36.80	11.926	-	37.70	12.308	-	45.50	15.034	-	45.20	14.929	-	45.50	15.034	
		12:40	2.0	-	32.00	10.338	-	33.50	10.855	-	34.20	11.096	-	37.30	12.169	-	41.50	13.632	-	38.80	12.691	
		12:55	5.0	29.6	25.90	8.595	29.5	29.10	9.344	29.5	32.20	10.407	29.5	32.50	10.510	29.5	33.00	10.682	29.5	33.40	10.820	
		14:20	5.5	29.2	21.30	6.704	29.5	27.50	8.799	29.5	37.50	12.239	29.5	41.60	13.567	29.4	45.40	14.999	29.4	49.50	16.445	
	07/10/92	16:40	5.0	29.4	18.10	5.638	29.2	20.20	6.337	29.8	38.40	11.857	29.6	38.80	12.691	29.5	42.30	13.912	29.5	48.90	16.586	
		18:15	5.5	29.1	16.10	4.978	29.2	17.20	5.340	29.6	38.40	11.857	29.6	39.30	12.865	29.4	48.90	13.175	29.4	49.90	16.386	
		20:20	5.0	28.9	15.10	4.649	29.1	16.20	5.011	29.7	31.20	10.063	29.7	36.40	11.857	29.4	40.60	13.318	29.4	46.40	16.409	
		22:30	5.0	28.7	25.80	8.221	28.9	26.10	8.323	29.5	28.70	9.208	29.8	30.50	9.823	29.5	31.50	10.166	29.4	32.20	10.407	
		12:25	5.0	28.4	20.70	6.504	28.7	21.00	6.604	29.1	22.70	7.174	29.7	25.30	8.391	29.5	27.10	8.663	29.3	28.20	9.037	
EC 3	06/10/92	6:25	5.0	28.5	14.90	4.584	28.6	16.00	4.945	29.0	17.90	5.572	29.0	20.10	6.303	29.4	36.30	11.822	29.3	48.60	15.422	
		8:26	5.0	28.5	23.60	7.477	28.2	48.90	16.233	29.2	49.10	16.303	29.2	49.60	16.480	29.2	49.60	16.480	29.2	49.50	16.445	
		10:15	5.5	27.9	23.70	7.511	27.6	32.90	10.648	29.4	41.20	13.527	29.4	47.30	15.668	29.4	49.40	16.409	29.4	50.30	16.728	
		12:20	5.5	-	20.90	6.571	-	22.80	7.208	-	38.40	12.551	-	45.10	14.894	-	46.50	15.386	-	49.70	16.515	
		12:00	8.0	29.5	26.80	8.561	29.5	28.40	9.105	30.1	29.60	9.515	29.9	30.20	9.721	29.9	30.70	9.892	30.0	28.40	9.105	
	07/10/92	14:00	8.0	28.9	14.20	4.355	29.1	19.50	6.103	30.0	35.80	11.649	29.8	39.30	12.855	29.7	42.00	13.807	29.7	29.50	9.481	
		16:00	8.0	29.2	13.70	4.192	29.1	14.80	4.551	30.1	35.20	11.442	29.9	38.60	12.621	29.8	42.00	13.877	29.8	35.40	11.511	
		18:00	8.0	28.9	12.70	3.867	29.0	14.50	4.453	30.0	35.40	11.580	29.8	38.40	12.551	29.7	42.30	13.912	29.8	42.60	14.017	
		20:00	8.0	28.4	10.95	3.303	30.0	14.12	4.329	30.0	35.60	11.580	29.7	39.10	12.795	29.6	39.70	13.004	29.6	31.20	10.663	
		22:00	8.5	28.3	25.00	7.950	29.9	28.50	9.139	29.9	31.60	10.201	29.6	32.40	10.476	29.6	32.40	10.476	29.7	32.10	10.373	
	07/10/92	12:00	8.5	27.9	19.90	6.237	29.7	22.10	6.973	29.7	26.70	8.527	29.5	26.80	8.561	29.5	26.80	8.561	29.5	25.60	8.153	
		2:15	8.5	28.3	10.20	3.063	29.7	21.90	6.906	29.7	28.50	9.174	29.5	26.80	8.561	29.5	26.80	8.561	29.5	27.30	8.731	
		4:00	8.5	28.3	12.50	3.803	29.5	13.00	3.965	29.5	28.60	9.174	29.5	26.80	8.561	29.5	26.80	8.561	29.5	27.30	8.731	
		5:10	8.5	28.5	15.10	4.649	29.4	26.10	8.323	29.3	28.10	12.447	29.5	26.80	8.561	29.5	26.80	8.561	29.5	27.30	8.731	
		6:00	8.5	28.4	16.30	5.043	29.3	30.30	8.755	29.3	36.10	11.753	29.4	28.50	9.174	29.3	28.50	9.174	29.3	28.70	9.208	
		8:00	8.0	28.2	24.80	7.882	29.3	25.70	8.187	29.3	28.20	9.037	29.6	28.50	9.174	29.3	28.50	9.174	29.3	28.20	9.208	
		10:00	8.0	28.4	16.00	4.945	29.6	16.60	5.142	29.6	38.40	12.551	29.6	40.20	13.178	29.6	41.10	13.492	29.4	40.40	13.248	
		12:00	8.0	-	14.30	4.388	-	21.30	6.704	-	35.40	11.511	-	40.00	13.109	-	35.40	11.511	-	33.00	10.682	

(to be continued)

Table (2/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 1ST SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	
EC 4	06/10/92	10:00	7.7	27.7	9.56	2,859	27.5	12.60	3,835	29.8	31.82	10,276	30.0	39.18	12,823	30.0	41.17	13,517	30.00	42.24	13,891	Depth
		12:00	7.7	28.2	7.59	2,236	27.5	5.70	1,689	29.1	21.81	6,875	30.1	38.84	12,704	30.0	41.72	13,709	30.20	42.74	14,066	
		14:00	7.8	27.5	7.40	2,177	27.5	6.50	1,896	29.3	25.13	7,994	30.0	39.55	12,604	29.9	41.46	13,618	29.80	42.79	14,084	
		16:00	7.0	27.5	6.26	1,822	27.2	15.40	4,748	29.8	32.42	10,483	29.9	39.15	12,832	29.8	41.96	13,793	29.80	42.60	14,017	
		18:00	6.9	27.0	4.41	1,255	26.9	27.80	8,901	29.2	25.85	8,238	29.9	38.93	12,736	29.8	41.73	13,713	29.80	42.32	13,919	
		20:00	7.5	26.9	3.62	1,017	26.6	6.60	1,927	29.6	31.32	10,195	29.9	39.38	12,893	29.8	42.09	13,839	29.80	42.52	13,989	
	07/10/92	22:00	6.9	28.1	2.94	815	26.6	8.70	2,586	29.3	27.93	8,945	29.7	39.65	12,987	29.8	41.47	13,622	29.70	42.44	13,961	
		00:00	7.7	26.4	2.66	733	26.5	8.70	2,586	29.7	32.99	10,679	29.8	40.57	13,307	29.8	42.04	13,821	29.8	42.48	13,975	
		2:00	8.1	26.4	2.75	739	26.4	2.80	774	29.5	28.95	9,293	29.9	39.65	12,987	29.7	42.02	13,814	29.8	44.30	14,613	
		4:00	8.4	26.2	8.41	2,494	27.3	2.86	792	29.7	38.90	12,725	29.7	40.00	13,109	29.4	44.85	14,806	29.5	45.81	15,143	
		6:00	8.4	26.7	4.39	1,249	26.8	8.69	2,583	29.6	33.67	10,913	29.8	39.72	13,011	29.8	41.73	13,713	29.8	42.36	13,933	
		8:00	7.9	26.6	4.75	1,358	26.8	5.25	1,511	29.2	30.10	9,886	29.8	38.78	12,684	29.9	41.17	13,517	29.8	42.37	13,937	
EC 5	06/10/92	10:00	7.9	26.3	3.96	1,119	26.60	6.18	1,797	29.2	30.25	9,738	30.0	39.53	12,945	29.9	41.35	13,580	29.8	42.02	13,814	
		12:00	8.2	27.00	2.86	792	26.60	3.18	886	28.9	26.82	8,567	29.9	39.66	12,990	29.8	41.75	13,720	29.8	42.17	13,867	
		10:50	6.1	28.4	11.40	3,448	28.3	14.14	4,336	28.8	21.60	6,805	29.7	36.19	11,734	29.8	40.39	13,245	29.7	42.12	13,849	
		12:50	6.4	28.7	12.40	3,770	28.6	13.60	4,160	28.7	19.27	6,077	29.8	35.90	11,684	29.8	39.65	12,987	29.6	48.95	16,250	
		14:50	6.5	28.2	12.00	3,641	28.2	12.80	3,900	28.9	22.65	7,157	29.8	37.80	12,333	29.7	40.78	13,381	29.5	47.46	15,725	
		16:40	4.4	28.1	10.60	3,191	28.1	10.85	3,271	28.9	11.23	3,333	28.9	23.26	7,363	29.6	36.63	11,937	29.5	37.10	12,100	
	07/10/92	18:50	6.9	27.7	9.02	2,687	27.7	9.53	2,849	28.7	15.96	6,447	29.8	38.96	12,746	29.5	46.13	15,256	29.5	47.29	15,665	
		20:50	6.9	27.4	8.06	2,494	27.5	8.41	2,494	28.3	15.96	6,447	29.7	38.67	12,746	29.5	46.13	15,256	29.5	47.20	15,633	
		22:40	5.6	27.1	7.11	2,086	27.3	7.45	2,192	27.6	9.69	2,900	29.6	38.49	12,553	29.5	43.01	14,413	29.5	46.34	15,330	
		00:50	5.8	27.1	6.63	1,937	27.1	6.94	2,033	28.5	19.46	6,090	29.7	40.12	13,150	29.5	43.88	14,466	29.5	47.24	15,647	
		2:55	5.4	27.0	7.19	2,111	27.3	8.07	2,387	29.7	35.52	11,552	29.7	41.07	13,482	29.5	43.38	14,250	29.5	45.12	14,901	
		4:50	5.7	27.3	9.15	2,728	27.6	10.50	3,159	29.6	37.60	12,273	29.6	41.03	13,488	29.4	44.32	13,620	29.5	45.00	14,859	
EC 6	06/10/92	6:50	5.9	27.8	13.08	3,991	27.9	13.83	4,334	29.2	32.04	10,352	29.5	38.92	12,732	29.5	41.46	13,618	29.5	45.00	14,859	
		8:50	6.4	27.5	11.78	3,570	27.6	12.58	3,828	28.8	25.31	8,055	29.3	33.02	10,689	29.5	36.65	11,944	29.5	44.65	14,736	
		10:45	6.2	27.7	8.24	2,441	27.4	9.15	2,728	28.7	12.78	3,893	29.3	38.55	12,604	29.6	38.16	12,468	29.6	41.95	14,730	
		12:45	6.3	27.6	8.13	2,406	27.3	10.33	3,104	27.4	12.45	3,786	29.4	37.89	12,374	29.7	38.33	12,527	29.8	41.34	14,627	
		11:00	7.7	26.0	2.50	686	25.9	2.94	815	26.0	3.71	1,044	29.5	33.96	11,013	29.6	36.75	11,978	29.6	39.03	12,771	
		13:00	6.0	26.6	2.26	616	26.0	2.27	619	26.1	3.03	1,842	26.1	4.39	1,249	28.5	23.91	7,582	29.5	35.34	11,490	
	07/10/92	14:51	7.0	26.5	1.93	521	26.0	2.30	628	25.8	2.85	789	27.7	19.36	6,057	28.7	31.27	10,087	29.5	38.75	12,673	
		16:55	6.6	26.3	1.57	418	26.1	1.96	530	26.0	2.46	541	27.4	16.94	5,254	28.9	30.80	9,925	29.5	40.29	12,673	
		19:01	5.9	26.1	1.21	317	26.0	1.48	393	26.0	2.06	574	27.4	19.54	5,150	28.3	36.65	11,947	29.5	39.25	12,847	
		21:09	5.9	26.2	1.48	393	26.0	1.38	365	27.4	17.65	5,489	28.2	34.70	11,289	29.5	36.65	11,947	29.5	39.25	12,847	
		23:00	5.9	25.8	1.14	298	25.7	1.18	309	25.7	1.23	523	27.7	21.04	6,617	28.1	32.98	10,675	29.4	39.67	12,994	
		1:00	5.8	25.7	1.06	275	25.6	1.08	281	25.7	1.73	464	27.4	19.71	6,173	29.2	35.71	11,618	29.4	39.90	13,074	
(to be continued)	07/10/92	3:00	6.5	25.6	1.10	286	25.6	1.18	309	26.5	7.76	2,290	28.9	30.53	9,834	29.3	38.71	12,659	29.3	40.18	13,171	
		5:05	7.5	25.8	1.18	309	25.1	1.61	430	26.1	3.80	1,071	28.9	32.53	10,520	29.3	38.68	12,649	29.4	39.98	13,102	
		7:15	8.1	25.7	1.57	418	25.6	2.22	605	26.6	6.69	1,355	29.2	36.32	11,514	29.4	39.41	12,993	29.4	39.61	12,673	
		8:40	7.7	26.3	1.56	415	25.6	1.66	444	26.6	1.82	489	29.2	35.42	11,514	29.4	39.41	12,993	29.4	39.61	12,673	
		10:52	7.0	26.3	1.25	328	25.7	1.35	356	25.7	1.85	498	29.2	36.32	11,514	29.4	39.41	12,993	29.4	39.61	12,673	
		12:37	7.0	27.0	0.85	218	25.8	1.05	273	25.6	1.18	309	25.9	4.05	1,146	28.1	26.62	8,160	29.4	37.95	12,395	

Table (3/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 1ST SESSION)

Location No.	Date	Time	0%		20%		40%		60%		80%		100%		Depth	
			Temp (C)	EC (mS/cm)	Temp (C)	EC (mS/cm)	Temp (C)	EC (mS/cm)	Temp (C)	EC (mS/cm)	Temp (C)	EC (mS/cm)	Temp (C)	EC (mS/cm)	CI (ppm)	Depth (m)
EC 7	06/10/92	10:20	25.5	0.30	25.2	0.35	25.2	0.70	25.3	0.87	25.3	1.20	25.3	1.31	314	3.8
		12:37	25.8	0.56	25.6	0.60	25.6	0.74	25.9	4.31	29.1	31.99	29.3	33.20	314	4.2
		14:20	25.9	0.29	25.7	0.29	25.7	0.33	25.7	0.65	28.7	32.18	29.3	35.83	10,335	4.4
		16:26	25.9	0.70	25.7	0.62	25.7	0.64	25.7	0.62	28.7	2.05	29.3	35.83	10,400	4.4
		18:30	25.7	0.25	25.6	0.27	25.6	0.26	25.6	0.26	28.1	2.05	28.1	33.60	555	3.9
		20:27	25.6	0.27	25.5	0.27	25.5	0.26	25.6	0.26	28.1	2.05	28.1	33.60	555	3.9
		22:25	25.4	0.27	25.5	0.27	25.5	0.27	25.4	0.27	28.1	2.05	28.1	33.60	555	4.3
			25.4	0.27	25.5	0.27	25.5	0.27	25.4	0.27	28.1	2.05	28.1	33.60	555	3.4
			25.4	0.23	25.4	0.24	25.4	0.25	25.4	0.24	28.1	2.05	28.1	33.60	555	3.4
			25.4	0.30	25.4	0.32	25.4	0.33	25.5	0.35	28.1	2.05	28.1	33.60	555	3.6
EC 8	06/10/92	10:00	25.2	0.80	25.2	0.90	25.2	0.90	25.2	0.80	25.2	0.11	25.2	0.15	25	3.3
		12:00	25.6	0.33	25.5	0.34	25.5	0.35	25.6	0.39	25.6	0.50	25.6	0.50	351	2.7
		14:00	25.7	0.13	25.6	0.13	25.6	0.13	25.6	0.13	25.6	0.14	25.6	0.14	150	2.4
		16:00	25.6	0.13	25.5	0.13	25.5	0.13	25.5	0.13	25.5	0.14	25.5	0.14	32	2.6
		18:05	25.5	0.13	25.4	0.13	25.4	0.13	25.4	0.13	25.4	0.14	25.4	0.14	32	1.5
		20:00	25.4	0.16	25.4	0.16	25.4	0.16	25.4	0.16	25.4	0.17	25.4	0.17	39	2.0
		22:00	25.5	0.17	25.5	0.17	25.5	0.17	25.5	0.17	25.5	0.17	25.5	0.17	39	1.8
		24:00	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	34	1.8
			25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	34	1.8
			25.4	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	34	1.8
EC 8	07/10/92	00:15	25.4	0.15	25.5	0.14	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	34	1.8
		2:00	25.4	0.15	25.5	0.14	25.5	0.15	25.5	0.15	25.5	0.15	25.5	0.15	34	1.8
		4:00	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	34	1.8
		6:15	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	25.3	0.16	34	1.8
		8:00	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8
		10:00	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8
		12:00	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8
			25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8
			25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8
			25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	25.4	0.17	34	1.8

(the last portion)

Table (1/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 2ND SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	
EC 1	23/10/92	11:40	2.5	30.0	30.30	9.755	29.9	31.00	9.995	29.9	32.40	10.476	29.9	33.10	10.717	29.8	32.40	10.476	29.8	31.10	10.029	
		13:35	2.1	30.1	19.20	6.003	30.0	24.60	7.815	30.0	23.50	7.444	29.9	28.90	9.276	29.7	27.90	9.335	29.6	29.70	9.549	
		15:35	2.1	30.2	25.30	8.052	30.1	25.60	8.153	30.1	25.90	8.255	30.0	26.30	8.391	29.7	28.80	9.242	29.8	28.50	9.139	
		17:50	2.5	31.0	31.50	10.166	30.9	31.50	10.166	30.9	31.40	10.132	30.9	31.30	10.098	30.9	31.90	10.374	30.9	31.10	10.029	
		19:48	2.4	30.5	33.40	10.820	30.5	33.50	10.855	30.5	33.40	10.820	30.5	33.20	10.751	30.5	33.10	10.717	30.4	31.90	10.304	
		21:40	2.5	29.6	32.90	10.648	29.8	35.30	11.476	30.4	46.80	15.992	30.4	48.80	16.197	30.4	49.10	16.303	30.3	49.00	16.268	
		23:45	2.1	29.5	24.80	7.882	29.6	25.50	8.119	29.6	27.50	8.799	29.7	28.30	9.071	29.9	35.90	11.684	30.2	44.50	14.683	
		1:46	2.3	29.1	22.70	7.174	29.4	23.80	7.545	29.6	23.80	7.545	29.8	24.00	7.612	29.9	24.10	7.646	29.9	25.40	8.086	
		3:50	2.0	29.3	27.60	8.833	29.3	27.40	8.765	29.3	27.50	8.799	29.4	27.70	8.867	29.3	27.50	8.799	29.3	26.90	8.595	
		5:55	2.0	29.9	26.60	8.493	29.9	26.50	8.459	29.9	26.80	8.561	29.9	26.80	8.629	29.9	26.80	8.561	29.8	25.90	8.255	
EC 2	23/10/92	7:50	1.5	29.8	29.20	9.378	29.8	29.10	9.344	29.8	29.00	9.310	29.8	28.80	9.212	29.8	28.70	9.208	29.8	28.50	9.139	
		9:40	2.5	29.4	33.20	10.751	29.4	35.10	11.407	29.6	38.60	12.821	29.6	42.30	13.912	29.7	44.00	14.508	29.7	43.30	14.262	
		12:40	2.0	30.6	28.80	9.242	30.5	29.80	9.584	30.2	37.40	12.204	30.2	39.50	12.934	30.1	41.00	13.458	30.2	36.60	11.926	
		11:20	6.0	29.7	25.60	8.153	29.4	20.00	6.270	29.6	16.50	5.109	29.7	16.50	5.109	29.8	17.00	5.214	29.8	33.40	10.820	
		13:15	6.5	29.8	24.40	7.747	29.5	24.90	7.616	29.6	30.40	8.789	29.5	32.20	10.407	29.7	32.80	10.613	29.7	32.80	10.613	
		15:45	5.9	30.2	20.30	6.370	29.8	21.50	6.771	29.2	26.10	8.323	29.4	31.10	10.029	29.6	31.90	10.304	29.4	32.20	10.407	
		17:26	7.5	30.1	22.60	7.141	29.4	22.60	7.141	29.4	26.10	8.323	29.4	29.60	9.515	29.4	29.60	9.515	29.4	29.50	9.481	
		19:24	6.4	29.7	13.30	4.062	29.8	13.70	4.867	29.7	14.40	4.420	29.7	13.70	4.192	29.6	13.60	4.160	29.3	23.40	7.410	
		21:20	6.4	29.5	16.50	5.109	29.8	17.70	5.867	30.0	38.60	12.821	30.4	43.50	14.332	30.5	44.80	14.788	30.5	44.80	14.788	
		23:25	6.3	29.3	15.70	4.846	29.3	16.90	5.241	29.5	35.70	11.615	29.9	41.20	13.527	30.5	46.30	15.316	30.5	46.30	15.316	
EC 3	23/10/92	1:25	6.0	28.8	21.00	6.604	29.0	21.40	6.738	29.2	25.30	8.052	29.4	25.60	8.153	30.3	25.60	8.153	30.4	25.30	8.052	
		3:25	6.0	28.7	19.30	6.037	29.1	20.30	6.370	29.1	20.90	6.371	29.3	25.10	7.884	29.9	24.80	7.882	30.0	23.70	7.511	
		5:28	7.4	28.6	22.00	6.939	28.8	22.10	6.973	29.2	23.50	7.444	29.7	25.10	7.884	30.0	25.20	8.018	30.0	25.30	8.052	
		7:27	6.1	28.8	21.50	6.771	29.5	26.90	8.595	29.6	27.70	8.867	29.6	27.70	8.867	29.6	27.80	8.901	29.6	26.20	8.357	
		9:20	6.5	29.0	16.50	5.109	29.5	28.40	9.105	29.8	40.00	13.109	29.7	44.60	14.718	29.8	45.50	15.034	29.7	45.70	15.105	
		11:00	8.5	29.1	22.20	7.006	29.0	27.50	8.799	30.1	28.40	9.105	30.1	28.40	9.105	30.0	28.40	9.105	29.5	28.40	9.105	
		13:00	8.5	30.0	22.30	7.040	29.6	27.00	8.629	32.6	28.50	9.139	32.5	28.10	9.003	32.4	28.10	9.003	32.2	27.90	8.935	
		15:00	6.0	29.8	26.00	8.289	29.2	27.70	8.867	29.3	27.90	8.935	29.9	28.00	8.969	29.9	28.00	8.969	29.3	26.00	8.289	
		17:00	9.2	29.9	17.60	5.473	29.9	17.80	5.539	28.9	25.60	8.153	29.1	28.40	9.105	29.1	27.80	8.901	29.2	26.80	8.561	
		19:00	8.5	29.0	24.20	7.680	29.0	25.60	8.153	29.0	26.40	8.425	29.0	26.40	8.425	29.0	26.40	8.425	29.0	26.10	8.323	
EC 4	24/10/92	1:00	8.0	29.2	21.10	6.637	29.1	28.20	9.037	29.0	28.90	9.276	29.3	29.30	9.413	29.0	29.50	9.481	28.9	28.30	9.413	
		3:00	8.0	29.0	23.80	7.545	28.7	25.90	8.255	28.7	26.00	8.289	28.7	26.00	8.289	28.8	26.00	8.289	28.7	26.00	8.289	
		5:00	9.0	28.6	23.60	7.477	28.6	23.80	7.545	28.6	23.80	7.545	28.5	23.70	7.511	28.6	23.60	7.511	28.7	23.30	7.376	
		7:00	9.0	28.6	18.80	5.870	28.9	20.30	6.370	29.1	24.70	7.849	28.8	24.10	7.446	28.8	24.00	7.412	28.8	23.60	7.477	
		9:00	7.0	28.8	17.50	5.439	28.9	22.80	7.208	29.0	23.60	7.444	28.7	23.80	7.545	28.8	23.60	7.444	28.9	23.50	7.444	
		11:00	6.7	28.8	10.80	3.555	29.3	23.10	7.309	29.5	35.30	11.476	29.4	38.40	12.551	29.3	38.50	12.586	29.3	33.10	10.717	
				29.4	9.16	2.732	29.3	10.20	3.063	29.5	26.30	8.391	29.5	37.10	12.100	29.4	38.50	12.586	29.4	38.50	12.586	

(to be continued)

Table (2/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 2ND SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Water Depth
				Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	Temp (C)	EC (mS/cm)	Cl (ppm)	
EC 4	23/10/92	11:45	11.0	28.6	6.10	1,772	28.1	12.60	3,835	28.2	22.70	7,174	28.2	32.20	10,407	28.4	28.36	9,092	28.90	44.90	14,824	
		13:45	10.8	28.4	4.40	1,252	28.1	5.70	1,649	28.1	21.30	6,704	28.1	32.00	10,338	28.4	28.40	9,105	28.50	44.70	14,753	
		15:45	10.2	28.8	3.40	952	28.4	6.50	1,996	28.2	20.80	6,537	28.2	34.86	11,324	28.5	28.47	9,129	28.48	45.56	15,056	
		17:45	9.6	28.7	4.21	1,195	28.0	15.40	4,748	28.1	33.30	10,786	28.2	39.70	13,004	28.4	28.35	9,088	28.37	44.70	14,753	
		19:45	10.5	28.7	6.40	1,865	28.0	27.80	8,901	28.1	32.20	10,407	28.2	37.30	12,169	28.2	28.20	9,037	28.30	44.20	14,578	
		21:45	12.0	28.3	5.10	1,465	28.5	6.60	1,927	28.4	10.20	3,063	28.0	36.10	11,753	28.1	28.10	9,003	28.20	43.50	14,332	
		23:45	10.4	28.3	3.80	1,071	28.5	8.70	2,386	28.1	27.60	8,833	28.0	27.90	8,935	28.1	28.10	9,003	28.10	36.00	11,718	
		00:00	10.4	28.1	3.80	1,071	28.5	8.70	2,386	28.1	27.60	8,833	28.0	27.90	8,935	28.1	28.10	9,003	28.10	36.00	11,718	
		1:57	10.4	28.0	3.00	833	28.3	4.20	1,192	28.1	13.60	4,160	28.0	15.90	4,912	28.3	42.50	13,982	28.3	43.80	14,438	
		3:40	10.6	27.9	3.40	952	28.1	18.50	5,771	28.0	29.80	9,584	28.1	39.20	12,850	28.3	43.70	14,402	28.3	43.80	14,438	
EC 5	23/10/92	5:40	11.0	27.9	6.10	1,772	27.8	35.40	11,511	28.2	40.40	13,248	28.2	42.60	14,017	28.2	43.00	14,157	28.2	44.10	14,543	
		7:40	11.5	27.4	6.70	1,958	28.0	32.70	7,714	28.1	33.50	10,855	28.2	40.10	13,143	28.2	41.90	13,772	28.3	43.60	14,367	
		9:45	10.0	28.0	5.14	1,477	28.00	5.90	1,711	28.1	19.20	6,003	28.2	30.70	9,892	25.3	34.50	11,200	28.3	40.90	13,423	
		11:40	8.4	29.3	4.60	1,313	28.40	7.50	2,208	28.4	20.40	6,403	28.4	30.70	9,892	28.4	33.90	10,993	28.6	38.40	12,551	
		11:00	14.0	28.4	2.10	570	27.7	5.10	1,465	28.1	30.20	9,121	28.2	32.00	10,338	28.1	33.60	10,889	28.1	34.20	11,096	
		13:00	13.0	29.1	1.60	427	27.7	5.90	1,111	28.3	29.20	9,378	28.3	32.20	10,407	28.2	34.07	11,051	28.2	34.50	11,200	
		15:00	14.0	30.3	1.43	379	27.9	2.20	599	28.0	29.70	9,549	28.2	33.48	10,848	28.2	34.70	11,269	28.1	35.20	11,442	
		17:00	15.0	28.6	1.40	370	27.6	1.83	492	28.0	29.70	9,549	28.1	33.99	11,024	28.1	34.70	11,269	28.1	35.31	11,480	
		19:00	14.8	28.7	1.75	469	28.1	3.03	842	27.6	19.20	6,003	27.9	30.55	9,840	28.0	34.00	11,027	28.0	35.25	11,459	
		21:00	14.2	28.3	1.95	527	28.1	3.92	1,107	27.7	25.40	8,086	27.9	30.40	9,789	27.9	33.60	10,889	28.0	35.25	11,459	
EC 6	23/10/92	23:00	14.6	28.3	1.90	512	27.9	3.20	1,392	27.7	28.20	7,880	27.9	31.10	10,029	27.9	34.00	11,027	27.9	34.60	11,234	
		11:00	12.6	28.2	1.80	484	28.1	8.20	2,428	28.1	27.60	8,833	28.0	30.90	9,960	28.2	33.50	10,855	28.2	34.40	11,165	
		1:00	14.2	28.0	1.50	398	27.7	1.90	512	27.9	30.10	9,686	28.0	33.00	10,682	28.0	36.70	11,951	28.0	35.07	11,397	
		3:00	14.4	27.8	1.50	398	27.7	1.90	512	27.8	29.30	9,413	27.9	33.40	10,820	28.0	34.60	11,234	28.0	34.70	11,269	
		5:05	16.0	27.7	1.70	455	27.7	2.30	628	27.7	28.10	9,003	27.9	34.10	11,062	27.9	34.30	11,131	27.9	34.00	11,027	
		7:00	16.4	27.8	1.90	512	27.8	4.10	1,161	27.8	27.10	8,663	27.9	33.40	10,820	27.9	34.10	11,062	27.9	34.50	11,200	
		9:00	14.2	28.0	2.30	628	28.0	2.56	704	27.9	26.60	8,493	28.9	32.40	10,476	28.0	33.40	10,820	28.0	34.50	11,200	
		12:01	3.1	28.6	0.86	220	28.5	0.91	234	27.9	1.25	328	27.5	1.51	401	27.4	1.66	444	27.6	18.53	5,781	
		13:40	3.0	30.4	0.93	240	28.3	1.07	278	28.6	0.92	270	27.6	2.01	317	27.4	2.83	783	27.8	20.53	6,447	
		15:40	3.0	29.2	0.87	223	28.1	0.89	229	28.3	0.92	237	27.7	2.01	344	27.3	2.33	637	27.8	21.50	6,771	
EC 6	24/10/92	17:50	3.1	28.3	0.83	212	28.2	0.99	256	27.8	1.16	303	27.5	1.47	390	27.8	22.05	6,956	28.6	30.81	9,930	
		19:45	3.9	28.6	0.73	185	27.4	2.42	663	28.2	1.67	325	28.6	2.01	8,609	28.6	31.65	10,218	28.5	30.43	9,388	
		21:43	3.2	28.4	0.80	204	28.3	0.88	226	27.8	1.24	325	27.5	2.92	198	27.5	27.44	8,778	28.5	30.43	9,388	
		23:45	2.7	28.2	0.70	177	28.3	0.71	180	28.3	0.72	182	28.3	0.74	198	27.5	1.95	527	27.9	19.56	8,123	
		1:45	2.5	28.0	0.65	164	28.2	0.68	172	28.2	0.68	172	28.0	0.96	248	27.4	1.96	530	27.9	23.93	7,589	
		3:43	2.9	27.9	0.68	172	28.0	0.68	172	28.0	0.82	210	27.7	0.82	210	27.7	1.36	359	27.5	3.63	1,020	
		6:00	2.9	27.8	0.74	188	27.8	0.73	185	27.8	0.99	256	27.5	6.09	1,769	28.1	25.32	8,058	28.4	30.53	9,834	
		7:40	3.6	27.7	0.77	196	27.7	1.00	259	27.7	1.24	547	27.7	1.24	5,354	28.4	30.38	9,782	28.5	31.56	10,187	
		9:41	4.0	28.1	0.74	188	27.7	0.85	218	28.2	0.95	548	28.2	26.29	8,387	28.4	30.07	9,676	28.4	30.25	9,738	
		11:38	3.0	29.2	0.80	204	29.0	0.85	207	29.0	0.85	218	27.7	0.95	245	27.5	6.91	2,024	28.0	24.70	7,849	

(to be continued)

Table (3/3) RESULTS OF ELECTRICAL CONDUCTIVITY MEASUREMENT (MARANG RIVER 2ND SESSION)

Location No.	Date	Time	Water Depth (m)	0%			20%			40%			60%			80%			100%			Depth
				Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	Temp (°C)	EC (mS/cm)	Cl (ppm)	
EC 7	23/10/92	11:37	2.0	27.9	0.36	87	27.8	0.41	100	27.7	0.41	100	27.4	0.42	103	27.3	0.43	105	27.3	0.52	129	
		13:16	2.8	28.4	0.33	80	28.2	0.33	80	28.1	0.34	82	28.0	0.33	80	27.6	0.37	90	27.5	0.53	132	
		15:15	2.6	28.7	0.30	72	28.6	0.33	80	28.3	0.33	80	28.0	0.37	90	27.6	0.38	92	27.6	0.45	113	
		17:25	2.6	28.5	0.33	80	28.4	0.34	82	28.2	0.35	85	28.2	0.42	103	28.0	0.44	108	27.9	0.62	156	
		19:20	2.6	28.1	0.43	105	28.1	0.54	134	28.0	0.63	158	27.7	1.08	281	27.6	1.32	348	27.6	1.33	351	
		21:19	2.7	27.9	0.48	119	27.9	0.48	119	28.0	0.50	124	28.0	0.51	126	27.9	0.96	248	27.7	1.19	311	
		23:20	2.7	28.0	0.38	92	28.1	0.42	103	28.1	0.42	103	28.1	0.42	103	28.1	0.44	108	28.1	0.47	116	
		1:20	2.5	28.1	0.33	80	28.1	0.34	82	28.0	0.33	80	28.0	0.32	77	28.0	0.34	82	28.0	0.34	82	
		3:20	2.1	27.8	0.36	87	27.8	0.37	90	27.8	0.37	90	27.8	0.36	87	27.8	0.36	87	27.8	0.36	87	
		5:25	2.8	27.7	0.42	103	27.7	0.43	105	27.7	0.43	105	27.8	0.45	111	27.8	0.54	134	27.7	0.96	248	
EC 8	23/10/92	7:15	2.7	27.5	0.65	164	27.5	0.60	150	27.5	0.92	237	27.6	1.38	365	27.6	1.95	527	27.5	2.20	599	
		9:19	2.8	27.7	0.55	137	27.6	0.60	150	27.6	0.64	161	27.6	0.75	191	27.6	0.83	212	27.6	12.98	3,958	
		11:14	2.8	28.9	0.38	92	28.2	0.38	92	28.1	0.38	92	28.0	0.38	92	27.7	0.50	124	27.8	21.60	6,805	
		11:00	2.1	28.2	0.17	39	27.1	0.25	59	27.5	0.22	52	27.0	0.29	69	26.9	0.30	72	26.9	0.33	80	
		13:00	1.6	28.3	0.16	37	28.3	0.18	42	27.6	0.26	52	27.6	0.24	57	27.6	0.25	59	27.6	0.31	74	
		15:00	1.5	28.8	0.16	37	28.2	0.23	54	28.0	0.22	52	27.9	0.23	54	27.8	0.24	57	27.9	0.23	54	
		17:00	1.4	28.2	0.16	37	29.2	0.16	37	29.2	0.16	37	29.2	0.16	37	29.2	0.17	39	28.2	0.25	62	
		19:00	1.7	28.4	0.22	52	28.3	0.22	52	28.3	0.23	54	28.2	0.24	57	28.2	0.25	59	28.1	0.26	62	
		21:00	1.1	28.4	0.23	54	28.4	0.24	57	28.4	0.23	54	28.3	0.24	49	28.1	0.31	74	28.1	0.33	80	
		23:00	1.8	28.1	0.22	52	28.1	0.21	49	28.1	0.21	49	28.1	0.21	49	28.1	0.21	49	28.1	0.22	52	
EC 8	24/10/92	1:00	1.6	27.6	0.21	49	27.7	0.19	44	27.7	0.21	49	27.7	0.22	52	27.7	0.22	52	27.7	0.22	52	
		3:00	1.4	27.4	0.19	44	27.4	0.17	39	27.4	0.19	44	27.4	0.20	47	27.4	0.19	44	27.4	0.19	44	
		5:00	1.5	27.4	0.23	54	27.5	0.23	54	27.5	0.23	54	27.5	0.23	54	27.5	0.23	54	27.5	0.23	54	
		7:00	1.8	27.4	0.29	69	27.5	0.31	74	27.5	0.32	77	27.5	0.31	74	27.5	0.32	77	27.5	0.33	80	
		9:00	2.0	27.5	0.25	59	27.5	0.29	69	27.5	0.26	69	27.5	0.29	69	27.4	0.31	74	27.4	0.32	77	
		11:00	1.8	28.9	0.22	52	28.3	0.23	54	27.6	0.28	67	27.4	0.28	67	27.3	0.30	72	27.2	0.31	74	

(the last portion)