(Appendix Tables)

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Appenndix Table 1	Sediments Properties at Each Station
Appenndix Table 2	Frequency (%) of Sediment Particle Diameter at Each Station
Appenndix Table 3	Weather and Sea-state Data
Appenndix Table 4	Sea-Water Sound Velocity for MBES

	0 1	D 1	117 /	0 101	7 00	75 17
Station	Sample	Depth	Water content	Specific	TOC	T N
Brathion	No.	(cm)	(%)	gravity	(mg/g(D))	(mg/g(D))
03SE01MC01		0-1	58.5	_	1.86	0.32
		1-2	53.0	—	1.91	0.29
4° 32. 016' N	1	2-3	50.5	_	1.47	0.24
172° 16. 028' E		3-4	49.4	—	1.36	0.26
		4-5	48.7	_	1.56	0.23
03SE01MC02		0-1	54.5	—	1.82	0.29
		1-2	51.7	—	1.58	0.28
4° 46. 006' N	1	2-3	50.9	_	1.58	0.27
172° 27. 217' E		3-4	51.0	—	1.51	0.20
		4-5	51.1	—	1.60	0.30
03SE01MC03		0-1	49.7	-	1.13	0.20
		1-2	48.8	+	1.02	0.20
4° 36. 018' N	1	2-3	48.4	—	0, 94	0.16
172° 36. 024' E		3-4	47.3	-	0.87	0.14
		4-5	46.8	—	0, 82	0.10
03SE01MC04		0-1	53, 6	—	1, 59	0.23
		1-2	52.2	_	1.37	0.21
4° 28. 404' N	1	2-3	51.6		1.38	0.20
172° 34. 922' E		3-4	51.4	_	1.27	0.17
		4-5	48.9	_	1.19	0.19

App. Table 1 Sediments Properties at Each Station

Station	Sample	Depth	Water content	Specific	TOC	TN
Station	No.	(c m)	(%)	gravity	(mg/g(D))	(mg/g(D))
03SE01MC01		0-1	62.5	2.77	2.49	0.37
		1-2	54.6	2.74	2.01	0.33
4° 32. 016' N		2-3	54.2	2.75	2.18	0.42
172°16.028' E	2	3-4	52.1	2.75	2.07	0.44
	Ŵ	4-5	48.4	2.74	1.58	0.27
		10	46.8	2.75	—	-
		20	48.0	2. 76	—	—
		30	47.2	2.76	—	-
03SE01MC02		0-1	57.2	2.76	2.37	0.42
		1-2	52.3	2.76	1.75	0.34
4° 46. 006' N		2-3	51.4	2.76	1.78	0. 41
172° 27. 217' E	2	3-4	51.0	2.75	1.66	0.35
		4-5	51.1	2.73	1.57	0.30
		10	51.7	2.74	_	_
		20	48.3	2.74		
03SE01MC03		0-1	54.3	2.75	1.11	0.26
		1-2	54.2	2.74	1.01	0.24
4° 36. 018' N		2-3	53.8	2.74	0.87	0.17
172° 36. 024' E	2	3-4	50.7	2.73	0.84	0.19
		4-5	49.9	2.73	0.98	0.22
		10	50.1	2.78		
		20	49.7	2.77		
03SE01MC04		0-1	54.0	2.76	1.37	0.23
		1-2	52.5	2.76	1.23	0.26
4° 28. 404' N		2-3	52.2	2.78	1.28	0.26
172° 34. 922' E	2	3-4	52.0	2.77	1.27	0.27
		4-5	51.6	2.76	1. 37	0.32
		10	52.5	2.74	_	—
		20	49.7	2.75	_	_

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App. Table 2 Frequency (%) of Sediment Particle Diameter at Each Station

Station Depth(m)	0-1	1-2	2-3	3-4	4-5	10	20	30	0356	1-2	2-3	3-4	4-5	10	20	0356	01MC0 1-2	2-3	3-4	4-5	10	20	035E0 0-1	1-2	2-3	3-4	4-5	10	20
Diameter(µm)																													
0.02-0.29 0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.19	0.20	0.17	0.19		0,19	0.00	0,27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.41	0.30 0.35	0.31 0.38	0.26	0.30	0.30 0.37	0.31	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0,00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00
	0.43	0.46	0.38	0.43	0.44	0.44	0.21	0.49	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0,00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.53	0.51	0.55	0.44	0.52	0.53	0.51	0.21	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0,00	0.00	0,00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.58	0.55	0.60	0.49 0,50	0.56	0.57	0.56	0.22	0,60	0 <u>.00</u> 0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	<u>0.00</u> 0.00	0.00	0.00
	0.55	0.61	0.49	0.56	0.58	0.54	0.21	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.75	0.50	0.55	0.45	0.51	0.52	0.48	0.19	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.45	0.49	0.40	0.46	0.47	0.42 0.37	0.18	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0,00	0.00	0.00	0.00	0.00	0.00
0.97	0.36	0.38	0.32	0.36	0.36	0.33	0.15	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.34	0.36	0.31	0.34 0.36	0.35	0.31 0.32	0,15 0,16	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.39	0.37	0.33	0.30	0.35	0.32	0.18	0.32	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.48	0.51	0.46	0.49		0.45	0.23	0.42	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.6	0.63	0.67 0.94	0.61	0.64	0.64	0.60	0.30		0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u>0.00</u> 0.00	0.00	0.00	0.00
1.8	1.23	1.33	1.21	1.27	1.26	1.20	0.41		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.9	1.69	1.83	1.66	1.73	1.73	1.64	0.79	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.1	2.24 2.73	2.45	2.21 2.70	2.30 2.81	2.29 2.80	2.20 2.71	1.05	2.12 2.63	0.00	0.00	0.00	0.00	0.13	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.5	3.17	3.48	3.14	3.26	3.25	3.15	1.31	3.10	0.00	0.00	0.00	0.00	0.21		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.8	3.43	3.78	3.40	3.53	3.52	3.42	1.73	3.38	0.00	0.20	0.25	0.25	0.26	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.26	0.21	0.00	0.18
3.0	3.51 3.51	3.87 3.86	3.47 3.49	3.59 3.61	3.61 3.61	3.52 3.55	1.84 1.89	3.44 3.42	0,00 0.00	0.21 0.23	0.26	0.26	0.30 0.35	0.30	0.00	0.13	0.13	0.00	0.00 0.00	0,00 0.00	0.00		0.15	0.20	0.20	0.27	0.22	0.00	0.18
3.6	3.42	3.60	3,43	3.51	3.51	3.55	1.89	3.42	0.00	0.23	0.33	0.30	0.35	0.35	0.00	0.19	0.19	0.00	0.00	0.00	0.00			0.23	<u>0.23</u> 0.26	0.30	0.24	0.00	0.20
	3.29	3.63	3.32	3.45	3.42	3,39	1.89	3.12	0.22	0.30	0.38	0.39	0.43	0.45	0.00	0.23	0.22	0.24	Q.00	0.18	0.23	0.27	0.26	0.29	0.30	0.39	0.31	0.00	0.23
4.2	3.12		3.18 3.00	3.30 3.13	3.27 3.10	3.25	1.86		0.22	0.34	0.42	0.44	0.48	0.50	0.00	0.27	0.26	0.24	0.00	0,19	0.23		0.31	0.33	0.33	0.43	0.35	0.13	0.24
5.0	2.94 2.74	3.27 3.08	2.81	2.95	2.92	3.10 2.91	1.82.	2.70	0.25 0.28	0.37 0.41	0.47	0.48	0.52 0.58	0.57 0.64	0.00	0.32	0.29	0.27	0.00	0.21	0.26	0.35	0.35	0.37	0.38 0.42	0.48	0.38	0.20	0.26
5.5	2,53		2.61	2.74	2.72	2.72	1.71	2.28	0.31		0,57	0.59	0.63	0.70	0.00	0.41	0.36	0,34	0.21	0.27	0.33	0.43	0.44	0.46	0.47	0.58	0.48	0.22	0.29
6.0	2.32 2.12	2.63	2.39 2.18	2.53 2.31	2.51 2.31	2.50	1.65	2.09	0.35	0,51	0.63	0.66	0.69	0.77	0.14	0.46	0.40	0.37	0.21	0.30	0.37	0.48	0.49	0.51	0.52	0.63	0.53	0.25	0.31
6.5 7.1	1.93	2.42 2.21	1.98	2.31	2.31	2.29 2.09	1.59 1.53	1.90 1.74	<u>0.38</u> 0.43	0.55 0.61	0.68	0.72	0.75	0.85	0.19	0.51	0,45 0,49	0.42	0.23	0.33	0.41 0.45	0.52 0.57	0.55	0.55	0.58	0.69 0.74	0.57 0.62	0.27	0.34
7.8	1.77	2.02	1.82	1,93		1.91	1.48		0.47	0,66	0.81	0.86	0.88		0.21	0.63	0.55	0.51	0.28	0.41	0.50	0.61	0.67	0.66	0.70	0.81	0.68	0.34	0.39
8.5	1.64		1.69	1.78	1.83	1.76	1.45	1.48	0.53	0.72	0.88	0.95	0.96	1.10	0.23	0.70	0.60	0.56	0.32	0.45	0.55	0.67	0.74	0.72	0.77	0.87	0.74	0.38	0.42
<u>9,2</u> 10.1	1.54 1.46	1.75 1.66	1.59 1.52	1.66	1.72	1.65 1.56	1.43 1.44		0.59 0.66	0.80	0.97	1.04	<u>1.04</u> 1.14	1.20	0.26	0.78	0.66	0.63	0.36	0.51 0.56	0.62	0.73	0.81	0.80 0,88	0.84 0.93	0.96	0.82	0.42	0.47
11.0	1.40	1.58	1.48	1.50	1.59	1.49	1.46	1,22	0.75	0.98	1.17	1.27	1.27	1.46	0.34	1.00	0.83	0.78	0.46	0.64	0.79	0.88	1.00	0.98	1.04	1.17	0.99	0.52	0.59
12.0	1.36	1.53	1.46	1.45	1.56	1.45	1.50	1.17	0.85	1.09	1.30	1.41	1.41	1.61	0.39	1.14	0.94	0.89	0.53	0.72	0.90		1.12	1.08	1.16	1.30	1.11	0.59	0.67
13.1 14.3	1.32 1.29		1.44	1.40	1.54	1.43 1.41	1.55 1.63	1.12 1.08	0.96	1.22 1.37	1.44	1.56	1.56 1.74	1.79 1.97	0.46 0.54	1.29 1.48	1.08	1.01 1.15	0.61	0.82	1.02	$1.11 \\ 1.25$	1.26	1.21	1.30	1.45	1.24	0.67	0.78
15.6	1.26	1.42	1.42	1,35	1.50	1.41	1.71	1.05	1.24	1.53	1.78	1.90	1.92	2.16	0.63	1.67	1.39	1.31	0.84	1.07	1.34	1.41	1.56	1.49	1.62	1.77	1.54	0.87	1.05
17.0	1.24		1.41	1.33	1.47	1.40	1.80	1.03	1.40	1.70	1.96	2.07		2.35	0.75	1.89	1.57	1.49	0,98	1.23	1.52	1.58	1.73	1.64	1.79	1.93	1.71	0,98	1.21
18.5	1.22	1.35 1.30	1.39	1.32	1.44 1.39	1.39 1.38	1.89 1.98	1.01 1.00	1.55	1.87 2.05	2.15	2.25	2.29	2.53 2.72	0.89	2.10	1.75 1.93	1.68	1.12	1.39 1.56	1.70 1.89	1.75 1.92	1.89	1.78	1.96 2.11	2.08	1.87 2.03	1.11	1.39
	1.18		1.34	1.28	1.35	1.38	2.06		1.88	2.23	2.52	2.61	2.65	2.91	1.20	2.51	2.12	2.09	1.47	1.73	2.07	2.09	2.23	2.11	2.27	2.38	2.18	1.40	1.74
	1.16		1.31	1.26	1.29	1.37	2.14		2.06	2.42	2.71	2.81	2.83	3.12	1.38	2.72	2.31	2.31	1,66	1.91	2.26	2.27	2.41	2.29	2.43	2.54	2.35	1.56	1.92
26.2	1.15		1,28	1.24 1.23	1.25 1.21	1.37 1.36	2.22 2.28	1.00	2.28 2.54	2.65 2.90	2.94 3.20	3.05	3.04	3.37 3.67	1.59 1.85	2.94	2.53 2.78	2.55 2.81	1.89	2.10 2.31	2.49	2.47 2.69	2.62 2.87	2.51 2.78	2.64 2,88	2.75 3.02	2.55 2.79	1.74	2.13 2.36
31.1	1.15		1.25	1.22	1.17	1.36	2.34	1.03	2.86	3.20	3.51	3.68	3.58	4.03	2.16	3.48	3.10	3.11	2.44	2.58	3.04	2.95	3.17	3.13	3.20	3.38	3.10	2.22	2.64
33.9	1.17	0.99	1.24	1.21 1.21	1.15	1.37	2.38 2.41	1.07	3.26	3.56	3.88	4.08	3.93	4.44	2.54	3.81	3.48	3.45	2.80	2.89	3.40	3,27	3.55	3.55	3.60	3.84	3,49	2,53	3.00
	1.20	0.98	1.24	1.21	1.12	1.37 1.38	2.41		<u>3,72</u> 4.24	3,97 4.41	4,30 4,76	4.49	4.31 4.70	4.85 5.26	3.00	4.19	3.94 4.47	3.83 4.24	3 <u>.23</u> 3.73	3.28 3.73	3.81 4.28	3.65 4.08	3.99 4.50	4.02	4.08 4.64	4.37 4.97	3.97 4.52	2.90 3.35	3.45 4.00
	1.28		1.28	1.20		1.38	2.40	1.24	4.71	4.79	5.12	5.22	5.00	5.47	4.10	4.97	4.96	4.61	4.26	4.23	4.72	4.48	4.98		5.16	5.48		3,84	4.61
	1.32			1.19		1.37 1.35	2.41		5.12 5.32	5.10		5.37	5.20 5.18	5.50		5.27	5.43 5.67	4.95	4.79		5.12		5.40	5.36		5.89	5,50	4.34	5.26
	1.35			1.17		1.35			5.32				5.18 4.96						5.19 5.45		5,35 5.38		5.62 5.64	5.49 5.41		5.98 5.77	5.75 5.76		5,76 6.09
62.2	1.37	0.81	1,35	1.10	0.99	1.24	2.25	1.48	5.12	4.97	4.88	4.56	4.55	4.19	5.39	5.05	5.46	5.03	5,51	5.51	5.23	5.06	5.40	5.10	5.47	5.27	5,50	5,25	6.13
		0.79					2.15 2.05		4.72	4.53							5.01		5.38				4.88				4.95		
		0.74			0.90	0.97			4.29 3.84	4.06 3.54			3.36 2.76				4.45 3.82		5.13 4.78		4.48 3.99		. <u>4.30</u> 3.63	4.01			4.32		
88.0	1.16	0.71	1.13	0.87	0.80	0.88	1.82	1.48	3.48	3.08	2.46	2.23	2.25	1.62	4.27	2.89	3.24	3.60	4.43	4.21	3.55	3.48	3.05	2.94	2.88	2.35	3.03	4,55	4.19
		0.68				0.78			3.19	2.69			1.85	1.24			2.71		4.09		3,15	3.07		2,53			2.50		
					0.69		1.58 1.46	1.39	2.95	2.34	1.64 1.37		1.52 1.29	0.96			2.26 1.87		3.77 3.46		2.80 2.49	2.71		2.19 1.91			2.06		
124	0.79	0.56	0.73	0.59	0.58	0.55	1.34	1.22	2.50	1.78	1.13	1.07	1.08	0.60	3.38	1.59	1.54	2.16	3.12	2,56	2,18	2.07	1.47	1.66	1.28	0.90	1.39	3.28	2.10
		0.51		0.53		0.48			2.20			0.90		0.47			1.24					1.77	1.21	1.43			1.12		
		0.46			0.46	0.42			1.84	1.24			0.75	0.37			0.99 0.78		2.34 1.89		1.52 1.17			1.20 0.98			0.89		
176	0.45	0,35	0.39	0,37	0.36	0.30	0.80	0.76	1.05	0.73	0.47	0.43	0.44	0.20	2.18	0.54	0.60	0.93	1.49	1.26	0,88	0.90	0,59	0.77	0,47	0.32	0.50	1.76	0.73
		0.30		0.32		0.25	0.66		0.73	0.52				0.00	1.80	0.31	0.47	0.70	1.12	0.98	0.62	0.66	0.43			0.24	0.36		
		0.26			0.28 0.25		0.55	0.55	0.50	0.38		0,18	0.17				0.37 0.30		0.82		0.43 0.31	0.49 0.35	0.33	0.45	0.21		0.27		
249	0.26	0.18	0.16	0.22	0.22	0.13	0.35	0,39	0.26	0.17	0.00	0.00	0.00	0.00	0.85	0.00	0.26	0.30	0.39			0.35	0.16	0.26	0.00	0.00	0.21	0.58	0.17
271	0.23	0.11	0.00	0.21	0.21	0.00	0.28	0.33	0.22	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.23	0.25	0.32	0.28	0.11	0.22	0.00	0.23	0,00	0.00	0,00	0.42	0.00
		0,08			0.16					0.00			0.00				0.21 0.21	0.16	0.24		0.05	0.14	0.00	0.14			0.00		
352	0.13	0.07	0.00	0.00			0.13	0.25		0.00			0.00		0.34		0.21		0.21				0.00				0.00		
384	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.11	0.17	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
419		0.00			0.00					0.00			0.00				0.19 0.19		0.00		0.00 0.00			0,00			0.00		
	0.00	0.00	0.00																										
456	0.00	0.00			0.00				0.06								0.14						0.00				0.00		

App. Table 3 Weather and Sea-state Data

Table — 1 M	onthly Distribution	of Wind Direction in 2003
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W.D.	C A L M	N	NNE	N E	E N E	E	E S E	S E	S S E	s	s s ¥	s W	w s w	w	м м м	N M	N N W	unknowr	Totel
Nov	0	0	0	0	3	20	5	1	2	0	0	0	0	0	0	0	0	0	31
%	0.0	0.0	0.0	0.0	9.7	64.5	16.1	3.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Dec	2	1	4	8	6	9	9	9	4	0	0	0	0	1	0	0	1	1	55
%	3.6	1.8	7.3	14.5	10.9	16.4	16.4	16.4	7.3	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.8	1.8	100.0

Table-2 Monthly Distribution of Wind Velocity in 2003

		nona	ii) 010	anbaa			10100														(W.C). : m/	/sec)
W.D.	C A L M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-	Total
Nov	0	0	0	1	1	5	6	6	7	2	2	0	0	0	0	1	0	0	0	0	0	0	31
%	0.00	0.00	0.00	3.23	3.23	16.13	19.35	19.35	22.58	6.45	6.45	0.00	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00	0.00	0.00	100.0
Dec	2	0	5	5	7	-11	7	2	7	3	4	1	1	0	0	0	0	0	0	0	0	0	55
%	3.64	0.00	9.09	9.09	12.73	20.00	12.73	3.64	12.73	5.45	7.27	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.0

*)CALM:0.0m/sec $\texttt{W.D.0:0.1m/sec}{\sim}1.0\texttt{m/sec}$ W.D.3: 3.0m/sec~4.0m/sec

W.D.20-:>20.0m/sec

Table - 3 Monthly Distribution of Weather in 2003

weather	fine	c loudy	rain	unknown	total	ligth day
Nov	2	0	0		2	1
%	100.0	0.0	0.0	0.0	100.0	50.0
Dec	2	1	0		3	3
%	66.7	33.3	0.0	0.0	100.0	100.0

*) rain: r,d,p,q>5 times in the day fine: other than rain day and b,bc>half day cloudy: other fine & rain day and r,d,p,q,c,o>half day light rain: fine or cloudy and r,d,p,q day

*) Remarks Symbols for weather d: drizzle b: fine(very fine)

- bc: partly cloudy(fine) p: sudden c: cloudy o: very cloudy r: rainy
 - q: squall

shower

- f: fog
- m: mist

Table-4 Monthly Frequency Distribution of Atomospheric Pressure(daily averrage) in 2003

				. 4	,		• •/	/ 100111				c(daily	u	260,			(A.P.	: hpa)
A.P.	-980	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996
Nov	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A.P.	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014
Nov	0	0	0	0	0	0	0	0	1	5	9	12	4	0	0	0	0	0
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23	16.13	29.03	38.71	12.90	0.00	0.00	0.00	0.00	0.00
Dec	0	0	0	0	0	0	0	6	11	15	14	9	0	0	0	0	0	0
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.91	20.00	27.27	25.45	16.36	0.00	0.00	0.00	0.00	0.00	0.00
A.P.	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030-	unknown	Total
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	31
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.23	100.0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.0

*) A.P.1000: 1000.0hpa~1001.0hpa

A.P.-980: <980hpa

A.P1030-: >1030.0hpa

Table-5 Monthly Frequency Distribution of Swell 1 Direction in 2003

S.D	N	N N E	N E	ENE	E	E S E	S E	S S E	s	S S W	s W	W S W	w	W N W	N W	N N W	unknown	Total
Nov	0	0	0	0	0	12	5	0	0	0	0	0	0	0	0	0	14	31
%	0.00	0.00	0.00	0.00	0.00	38.71	16.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	100.0
Dec	0	0	15	0	0	7	8	0	0	0	0	0	0	0	0	0	25	55
%	0.00	0.00	27.27	0.00	0.00	12.73	14.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

Table-6 Monthly Frequency Distribution of Swell 1 Cycle in 2003

	0	wonu		quent	y 013	anbau		Owen	1 Oy		2000						(S.C.	:sec)
S.C.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	unknown	Total
Nov	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	14	31
%	0.00	0.00	0.00	0.00	0.00	0.00	54.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	100.0
Dec	0	0	0	0	0	0	15	15	0	0	0	0	0	0	0	0	25	55
%	0.00	0.00	0.00	0.00	0.00	0.00	27.27	27.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

Table ~ 7 Monthly Frequency Distribution of Swell 1 Height in 2003

Table	/	Monu	nyire	quenc	y DIS	anbuu	on or	Sweir	1116	igne in	12000		l.: m)
S.H.	0	_ 1_	2	3	4	5	6	7	8	9	10	unknown	Total
Nov	0	2	15	0	0	0	0	0	0	0	0	14	31
%	0.00	6.45	48.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.16	100.0
Dec	0	6	24	0	0	0	0	0	0	0	0	25	55
%	0.00	10.91	43.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

Table-8 Monthly Frequency Distribution of Degree of Cloudiness in 2003

D.C.	0	1	2	3	4	5	6	7	8	9	10	unknown	Total
Nov	0	0	10	16	2	2	0	0	1	0	0	0	31
%	0.00	0.00	32.26	51.61	6.45	6.45	0.00	0.00	3.23	0.00	0.00	0.00	100.0
Dec	0	0	1	5	10	19	16	3	1	0	0	0	55
%	0.00	0.00	1.82	9.09	18.18	34.55	29.09	5.45	1.82	0.00	0.00	0.00	100.0

Table-9 Monthly Frequency Distribution of Swell 2 Direction in 2003

S.D.	N	N N E	N E	E N E	E	E S E	S E	S S E	s	S S V	s w	¥ ິ ×	w	W N W	N W	N N N	unknown	Total
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.0	100.0
Dec	0	0	14	1	0	0	15	0	0	0	0	0	0	0	0	0	25	55
%	0.00	0.00	25.45	1.82	0.00	0.00	27.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

Table-10 Monthly Frequency Distribution of Swell 2 Cycle in 2003

	(S.C.: sec)											:sec)						
S.C.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	unknown	Total
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.0	100.0
Dec	0	0	0	0	0	0	16	14	0	0	0	0	0	0	0	0	25	55
%	0.00	0.00	0.00	0.00	0.00	0.00	29.09	25.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

Table - 11 Monthly Frequency Distribution of Swell 2 Height in 2003

												(S.F	<u>l.: m)</u>
S.H.	0	1	2	3	4	5	6	7	8	9	10	unknown	Total
Nov	0	0	0	0	0	0	0	0	0	0	0	31	31
%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.0	100.0
Dec	0	29	1	0	0	0	0	0	0	0	0	25	55
%	0.00	52.73	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	100.0

SE01 S	eamount
Latitude	4° 32.016'N
Longitude	172° 16.028'E
Water depth (m)	Sound Velocity($\mathbf{m} \cdot \mathbf{s}^{-1}$)
5	1,545.1
30	1,545.5
50	1,545.8
	1,541.3
125	1,532.8
150	1,526.2
175	1,523.5
200	1,512.2
250	1,497.8
300	1,493.0
400	1,490.1
500	1,489.2
600	1,489.2
900	1,485.6
1,000	1,485.0
1,200	1,485.2
1,500	1,486.7
2,000	1,491.8
2,500	1,498.6
6,436	1,553.6
Average	1,513.4

App. Table 4 Sea-Water Sound Velocity for MBES