

[Appendix Tables]

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App. Table 1 Sediments Properties at Each Station

Station	Sample No.	Depth (c m)	Water content (%)	Specific gravity	TOC (mg/g(D))	T-N (mg/g(D))
03SE01MC01 4° 32. 016' N 172° 16. 028' E	①	0-1	58.5	—	1.86	0.32
		1-2	53.0	—	1.91	0.29
		2-3	50.5	—	1.47	0.24
		3-4	49.4	—	1.36	0.26
		4-5	48.7	—	1.56	0.23
03SE01MC02 4° 46. 006' N 172° 27. 217' E	①	0-1	54.5	—	1.82	0.29
		1-2	51.7	—	1.58	0.28
		2-3	50.9	—	1.58	0.27
		3-4	51.0	—	1.51	0.20
		4-5	51.1	—	1.60	0.30
03SE01MC03 4° 36. 018' N 172° 36. 024' E	①	0-1	49.7	—	1.13	0.20
		1-2	48.8	—	1.02	0.20
		2-3	48.4	—	0.94	0.16
		3-4	47.3	—	0.87	0.14
		4-5	46.8	—	0.82	0.10
03SE01MC04 4° 28. 404' N 172° 34. 922' E	①	0-1	53.6	—	1.59	0.23
		1-2	52.2	—	1.37	0.21
		2-3	51.6	—	1.38	0.20
		3-4	51.4	—	1.27	0.17
		4-5	48.9	—	1.19	0.19

Station	Sample No.	Depth (c m)	Water content (%)	Specific gravity	TOC (mg/g(D))	T-N (mg/g(D))
03SE01MC01 4° 32. 016' N 172° 16. 028' E	②	0-1	62.5	2.77	2.49	0.37
		1-2	54.6	2.74	2.01	0.33
		2-3	54.2	2.75	2.18	0.42
		3-4	52.1	2.75	2.07	0.44
		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 4° 46. 006' N 172° 27. 217' E	②	0-1	57.2	2.76	2.37	0.42
		1-2	52.3	2.76	1.75	0.34
		2-3	51.4	2.76	1.78	0.41
		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	—	—
03SE01MC03 4° 36. 018' N 172° 36. 024' E	②	0-1	54.3	2.75	1.11	0.26
		1-2	54.2	2.74	1.01	0.24
		2-3	53.8	2.74	0.87	0.17
		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	—	—
03SE01MC04 4° 28. 404' N 172° 34. 922' E	②	0-1	54.0	2.76	1.37	0.23
		1-2	52.5	2.76	1.23	0.26
		2-3	52.2	2.78	1.28	0.26
		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	—	—		

App. Table 3 Weather and Sea-state Data

Table-1 Monthly Distribution of Wind Direction in 2003

W.D.	CALM	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	unknown	Total
Nov	0	0	0	0	3	20	5	1	2	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	100.0
Dec	2	1	4	8	6	9	9	9	4	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	1.8	0.0	0.0	1.8	1.8	100.0

Table-2 Monthly Distribution of Wind Velocity in 2003

(W.D.: m/sec)

W.D.	CALM	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

W.D.0 : 0.1m/sec~1.0m/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	cloudy	rain	unknown	total	ligh 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

b: fine(very fine)

d: drizzle

bc: partly cloudy(fine)

p: sudden

c: cloudy

shower

o: very cloudy

q: squall

r: rainy

f: fog

m: mist

Table-4 Monthly Frequency Distribution of Atmospheric Pressure(daily average) in 2003

(A.P.: hpa)

A.P.	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	
%	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	
Dec	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	
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	1	5	9	12	4	0	0	0	0	0	
%	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	6	11	15	14	9	0	0	0	0	0	0	
%	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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	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

(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

(S.H.: 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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	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)

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.H.: m)

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

App. Table 4 Sea-Water Sound Velocity for MBES

SE01 Seamount	
Latitude	4° 32.016'N
Longitude	172° 16.028'E
Water depth (m)	Sound Velocity(m · s ⁻¹)
5	1,545.1
30	1,545.5
50	1,545.8
100	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