Table 3.10.10(1) Vertical Observations of Water Temperature and Salinity in the Second Field Survey (Ebb Tide Period on 25th October 1988)

Site	1-A		1-B		1-C		1-D		1-E		1-F		1-G		1-H	
Depth(m)	6.0		6.8		6.7		8.0		7.7		8.5		9.3		9.5	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	31.3	45.80	31.9	45.90	31.9	45.98	31.4	45.82	31.8	45.98	31.9	45.88	31.6	45.84	31.7	45.93
1.0	31.3		31.9		31.8		31.4		31.8		31.9		31.6		31.7	
2.0	31.2		31.9		31.8		31.4		31.8		31.9		31.6		31.7	
3.0	31.1	45.82	31.9	45.87	31.8	45.90	31.0	45.81	31.8	45.93	31.9	45.88	31.5	45.81	31.6	45.89
4.0	31.0		31.9		31.8		31.0		31.6		31.9		31.3		31.4	
5.0	31.0	45.87	31.9		31.8		31.0		31.6		31.9		31.7		31.4	
6.0			31.9	45.89	31.8	45.89	30.9		31.5		31.8		31.1		31.4	
7.0							30.9	45.88	31.3	45.89	31.8		31.0		31.4	
8.0											31.8	45.91	30.9		31.1	
9.0													30.9	45.90	30.9	45.90
10.0																
11.0																
12.0																
13.0																
Max.	31.3	45.87	31.9	45.90	31.9	45.98	31.4	45.88	31.8	45.98	31.9	45.91	31.7	45.90	31.7	45.93
Min.	31.0	45.80	31.9	45.87	31.8	45.89	30.9	45.81	31.3	45.89	31.8	45.88	30.9	45.81	30.9	45.89

Site	1-I		2		3		4		5		6		7		9	
Depth(m)	9.6		0.5		14.0		1.5		9.0		12.0		9.0		11.0	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	32.1	45.83	36.9	48.76	30.9	43.82	31.4	44.10	31.2	44.98	30.9	43.65	31.1	44.17	31.1	43.30
1.0	32.1				30.9		31.4		31.2		30.9		31.2		31.1	
2.0	32.1				30.9				31.2		31.2		31.2		31.1	
3.0	32.1	45.81			31.6	44.30			31.3	44.53	31.1	44.04	31.2	44.17	31.1	43.30
4.0	32.1				32.4				31.4		31.3		31.2		31.1	
5.0	31.9				32.9				31.5		31.3		31.3		30.9	
6.0	31.8				32.6				31.6		31.3		31.3		30.9	
7.0	31.9				33.1				31.5		31.3		31.3		30.9	
8.0	31.8				33.1				31.5	44.86	31.4		31.3	44.63	30.9	
9.0	31.8	45.95			33.1						31.4				30.9	
10.0					33.2						31.5				30.9	43.47
11.0					33.3						31.6	44.38				
12.0					33.3											
13.0					33.2	46.54										
Max.	32.1	45.95	36.9	48.76	33.3	46.54	31.4	44.10	31.6	44.98	31.6	44.38	31.3	44.63	31.1	43.47
Min.	31.8	45.81	36.9	48.76	30.9	43.82	31.4	44.10	31.2	44.53	30.9	43.65	31.1	44.17	30.9	43.30

Site	12		15		16		19		20		24		25			
Depth(m)	14.0		14.0		9.0		9.0		8.0		6.0		8.0			
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	30.5	41.72	31.2	41.78	31.0	42.35	30.4	42.35	30.4	43.15	31.5	45.66	31.8	45.36		
1.0	30.5		30.8		31.0		30.4		30.3		31.5		31.8			
2.0	30.5		30.6		30.4		30.4		30.4		31.5		31.8			
3.0	30.5	41.68	30.5	41.82	30.4	42.34	30.4	42.33	30.3	43.15	31.5	45.68	31.7	45.47		
4.0	30.5		30.5		30.3		30.4		30.4		31.4		31.7			
5.0	30.5		30.5		30.3		30.4		30.4		31.4	45.69	31.6			
6.0	30.5		30.5		30.3		30.4		30.4				31.1			
7.0	30.5	41.74	30.5	41.91	30.2		30.4		30.4	43.55			31.1	45.89		
8.0	30.5		30.6		30.2	42.38	30.4	42.33								
9.0	30.4		30.6													
10.0	30.5		30.6													
11.0	30.4		30.6													
12.0	30.4		30.7													
13.0	30.4	41.74	30.7	42.29												
Max.	30.5	41.74	31.2	42.29	31.0	42.38	30.4	42.35	30.4	43.55	31.5	45.69	31.8	45.89		
Min.	30.4	41.68	30.5	41.78	30.2	42.34	30.4	42.33	30.3	43.15	31.4	45.66	31.1	45.36		

Table 3.10.10(2) Vertical Observations of Water Temperature and Salinity in the Second Field Survey (Flood Tide Period on 26th October 1988)

Site	I-A		I-B		I-C		I-D		I-E		I-F		I-G		I-H	
Depth(m)	5.1		6.5		5.5		6.8		6.8		7.9		6.0		8.5	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	31.2	45.42	31.1	45.69	31.3	45.71	31.3	45.59	31.4	45.67	31.3	45.72	31.4	45.67	31.5	45.54
1.0	31.2		31.1		31.3		31.3		31.3		31.2		31.3		31.3	
2.0	31.2		31.1		31.2		31.2		31.3		31.2		31.3		31.2	
3.0	31.1	45.69	31.1	45.73	31.2	45.72	31.2	45.68	31.2	45.76	31.2	45.72	31.2	45.68	31.2	45.70
4.0	31.1		31.1		31.2		31.2		31.2		31.2		31.2		31.1	
5.0	31.1	45.68	31.0		31.2	45.73	31.2		31.2		31.2		31.1	45.70	31.1	
6.0			31.0	45.81			31.2	45.73	31.2	45.82	31.2				31.1	
7.0											31.1	45.76			31.1	
8.0															31.1	45.84
9.0																
10.0																
11.0																
12.0																
13.0																
Max.	31.2	45.69	31.1	45.81	31.3	45.73	31.3	45.73	31.4	45.82	31.3	45.76	31.4	45.70	31.5	45.84
Min.	31.1	45.42	31.0	45.69	31.2	45.71	31.2	45.59	31.2	45.67	31.1	45.72	31.1	45.67	31.1	45.54

Site	1-1		2		3		4		5		6		7		9	
Depth(m)	9.5		1.0		14.0		1.5		9.0		13.0		11.0		11.0	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	31.3	45.72	36.8	48.31	31.6	44.84	30.8	44.43	31.4	45.20	31.1	44.49	30.8	43.06	30.6	41.69
1.0	31.3						30.8									
2.0	31.2				31.1				31.4		31.1		30.6		30.5	
3.0	31.2	45.73			31.1	44.98			31.4	45.29	31.0	44.50	30.7	43.06	30.5	41.66
4.0	31.1															
5.0	31.1				31.2				31.3		31.0		30.8		30.5	
6.0	31.1															
7.0	31.1				31.2	45.13			31.3		31.0	44.57	30.8		30.5	
8.0	31.0								31.3	45.31						
9.0	30.9	45.75			31.5											
10.0											31.0		30.9	43.12	30.5	41.66
11.0																
12.0											31.0	44.56				
13.0					31.3	45.49										
Max.	31.3	45.75	36.8	48.31	31.6	45.49	30.8	44.43	31.4	45.31	31.1	44.57	30.9	43.12	30.6	41.69
Min.	30.9	45.72	36.8	48.31	31.1	44.84	30.8	44.43	31.3	45.20	31.0	44.49	30.6	43.06	30.5	41.66

Site	12		15		16		19		20		24		25			
Depth(m)	13.0		13.0		8.0		8.0		8.0		5.5		8.0			
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	30.7	41.59	30.5	41.76	30.4	42.40	30.3	42.98	30.2	44.35	30.5	45.24	31.8	45.91		
1.0																
2.0	30.7		30.4		30.4		30.2		30.1		30.5		31.8			
3.0	30.7	41.59	30.4	41.75	30.4	42.40	30.2	43.03	30.0	44.47	30.5	45.31	31.7	45.89		
4.0																
5.0	30.6		30.4		30.4		30.2		30.0		30.5	45.33	31.7			
6.0																
7.0	30.6	41.60	30.5	41.84	30.4	42.42	30.2	43.16	29.9	44.48			31.7	45.89		
8.0																
9.0																
10.0	30.6		30.6													
11.0																
12.0	30.5	41.61	30.6	41.88												
13.0																
Max.	30.7	41.61	30.6	41.88	30.4	42.42	30.3	43.16	30.2	44.48	30.5	45.33	31.8	45.91		
Min.	30.5	41.59	30.4	41.75	30.4	42.40	30.2	42.98	29.9	44.35	30.5	45.24	31.7	45.89		

Table 3.10.11(1) Vertical Observations of Water Temperature and Salinity in the Third Field Survey (Ebb Tide Period on 2nd February 1989)

Site	1-A		1-B		1-C		1-D		1-E		1-F		1-G		1-H	
Depth(m)	5.5		6.0		6.5		7.0		8.5		8.5		7.0		7.5	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	19.5	46.48	19.7	46.45	20.0	46.52	19.7	46.50	19.5	46.47	19.5	46.45	19.6	46.48	19.9	46.49
1.0																
2.0	19.4		19.6		19.8		19.6		19.5		19.5		19.6		19.7	
3.0	19.4	46.49	19.5	46.46	19.7	46.48	19.6	46.50	19.5	46.46	19.5	46.44	19.6	46.49	19.7	46.49
4.0																
5.0	19.4	46.54	19.4	46.50	19.7		19.5		19.4		19.4		19.5		19.7	
6.0					19.7	46.49	19.5	46.53					19.5	46.50		
7.0									19.4		19.5				19.4	46.60
8.0									19.4	46.55	19.5	46.50				
9.0																
10.0																
11.0																
12.0																
13.0																
Max.	19.5	46.54	19.7	46.50	20.0	46.52	19.7	46.53	19.5	46.55	19.5	46.50	19.6	46.50	19.9	46.60
Min.	19.4	46.48	19.4	46.45	19.7	46.48	19.5	46.50	19.4	46.46	19.4	46.44	19.5	46.48	19.7	46.49

Site	1-I		2		3		4		5		6		7		9	
Depth(m)	10.0		3.5		13.0				10.0		13.5		14.0		14.0	
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	19.7	46.43	23.6	48.91	19.8	45.62			19.5	45.44	19.1	44.52	19.0	44.25	18.7	43.46
1.0																
2.0	19.6		23.6		19.8				19.3		19.3		19.0		18.7	
3.0	19.5	46.43	23.5		19.8	45.72			19.4	45.44	19.8	45.49	18.9	44.40	18.7	43.49
4.0																
5.0	19.3				19.9				19.4		19.9		19.0		18.7	
6.0																
7.0	19.2				20.5	46.68			19.7		20.3	46.33	19.2	44.67	18.7	43.50
8.0																
9.0	19.2	46.53							19.7	46.05						
10.0					21.0						20.5		21.6		18.7	
11.0																
12.0					21.3	46.79										
13.0											20.6	47.08	21.7	47.56	18.7	43.51
Max.	19.7	46.53	23.6	48.91	21.3	46.79			19.7	46.05	20.6	47.08	21.7	47.56	18.7	43.51
Min.	19.2	46.43	23.5	48.91	19.8	45.62			19.3	45.44	19.1	44.52	19.0	44.25	18.7	43.46

Site	12		15		16		19		20		24		25			
Depth(m)	15.0		15.0		8.5		8.5		9.5		5.0		10.0			
Parameter / Layer(m)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)	Temp. (℃)	Sal. (–)
0.3	18.6	43.37	18.4	43.03	18.5	43.44	19.0	43.57	19.0	44.36	19.4	46.27	19.3	46.23		
1.0																
2.0	18.6		18.5		18.4		18.7		18.8		19.4		19.2			
3.0	18.6	43.50	18.4	42.97	18.5	43.42	18.7	43.54	18.8	44.47	19.4	46.27	19.2	46.21		
4.0											19.4	46.27				
5.0	18.6		18.4		18.6		18.6		18.7				19.2			
6.0																
7.0	18.6	43.55	18.4	42.96	18.6		18.6		18.7				19.2			
8.0					18.6	43.42	18.6	43.54								
9.0									18.8	44.71			19.2	46.40		
10.0	18.6		18.4													
11.0																
12.0																
14.0	18.6	43.63	18.4	43.20												
Max.	18.6	43.63	18.5	43.20	18.6	43.44	19.0	43.57	19.0	44.71	19.4	46.27	19.3	46.40		
Min.	18.6	43.37	18.4	42.96	18.4	43.42	18.6	43.54	18.7	44.36	19.4	46.27	19.2	46.21		

Table 3.10.11(2) Vertical Observations of Water Temperature and Salinity in the Third Field Survey (Flood Tide Period on 8th February 1989)

Site	1-A		1-B		1-C		1-D		1-E		1-F		1-G		1-H	
Depth(m)	6.5		6.0		6.0		8.0		8.0		9.0		9.0		9.0	
Parameter / Layer(m)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)
0.3	18.4	46.19	18.2	46.23	18.3	46.22	18.4	46.19	18.3	46.19	18.3	46.23	18.4	46.19	18.4	46.23
1.0																
2.0	18.3		18.3		18.2		18.3		18.3		18.2		18.4		18.3	
3.0	18.2	46.21	18.3	46.21	18.0	46.20	18.2	46.19	18.3	46.20	18.2	46.24	18.4	46.18	18.2	46.21
4.0																
5.0	18.1		18.3	46.22	17.9	46.21	18.1		18.2		18.1		18.4		18.1	
6.0	18.1	46.21														
7.0							18.1	46.18	18.1	46.21	18.0		18.4		18.0	
8.0											18.0	46.20	18.4	46.28	17.9	46.23
9.0																
10.0																
11.0																
12.0																
13.0																
Max.	18.4	46.21	18.3	46.23	18.3	46.22	18.4	46.19	18.3	46.21	18.3	46.24	18.4	46.28	18.4	46.23
Min.	18.1	46.19	18.2	46.21	17.9	46.20	18.1	46.18	18.1	46.19	18.0	46.20	18.4	46.18	17.9	46.21

Site	1-I		2		3		4		5		6		7		9	
Depth(m)	9.5		3.5		13.0		5.0		9.5		12.0		13.5		13.0	
Parameter / Layer(m)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)
0.3	18.4	46.23	20.7	48.67	18.9	46.25	18.4	45.29	18.5	46.08	18.3	45.88	18.2	45.79	18.4	44.53
1.0																
2.0	18.4		20.6		18.9		18.4		18.5		18.3		18.2		18.3	
3.0	18.3	46.21	20.6		18.9	46.24	18.6	45.31	18.5	46.11	18.3	45.95	18.4	45.85	18.3	44.80
4.0							18.7	45.53								
5.0	18.2				18.9				18.4		18.3		18.4		18.3	
6.0																
7.0	18.2				18.9	46.44			18.3		18.3	45.95	18.4	45.89	18.3	44.90
8.0																
9.0	18.1	46.21			20.2				18.1	46.15						
10.0											18.3		18.4		18.3	
11.0											18.3	46.24				
12.0					20.5	47.06									18.3	45.04
13.0													18.4	45.91		
Max.	18.4	46.23	20.7	48.67	20.5	47.06	18.7	45.53	18.5	46.15	18.3	46.24	18.4	45.91	18.4	45.04
Min.	18.1	46.21	20.6	48.67	18.9	46.24	18.4	45.29	18.1	46.08	18.3	45.88	18.2	45.79	18.3	44.53

Site	12		15		16		19		20		24		25			
Depth(m)	14.0		14.0		7.0		8.0		9.0		4.5		11.0			
Parameter / Layer(m)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)	Temp. (℃)	Sal. (-)
0.3	17.8	43.74	17.8	43.03	17.3	43.70	17.7	44.29	17.6	45.75	17.5	46.13	18.8	46.27		
1.0																
2.0	17.8		17.8		17.3		17.5		17.5		17.5		18.8			
3.0	17.8	43.74	17.8	42.99	17.3	43.70	17.5	44.26	17.4	45.72	17.4	46.12	18.9	46.31		
4.0											17.3	46.14				
5.0	17.8		17.8		17.4		17.5		17.3				18.9			
6.0					17.4	43.70										
7.0	17.8	43.90	17.8	43.05			17.5	44.31	17.3				18.9	46.34		
8.0									17.3	45.84						
9.0																
10.0	17.8		17.8										18.9	46.35		
11.0																
12.0																
13.0	17.9	43.97	17.8	43.06												
Max.	17.9	43.97	17.8	43.06	17.4	43.70	17.7	44.31	17.6	45.84	17.5	46.14	18.9	46.39		
Min.	17.8	43.74	17.8	42.99	17.3	43.70	17.5	44.26	17.3	45.72	17.3	46.12	18.8	46.27		

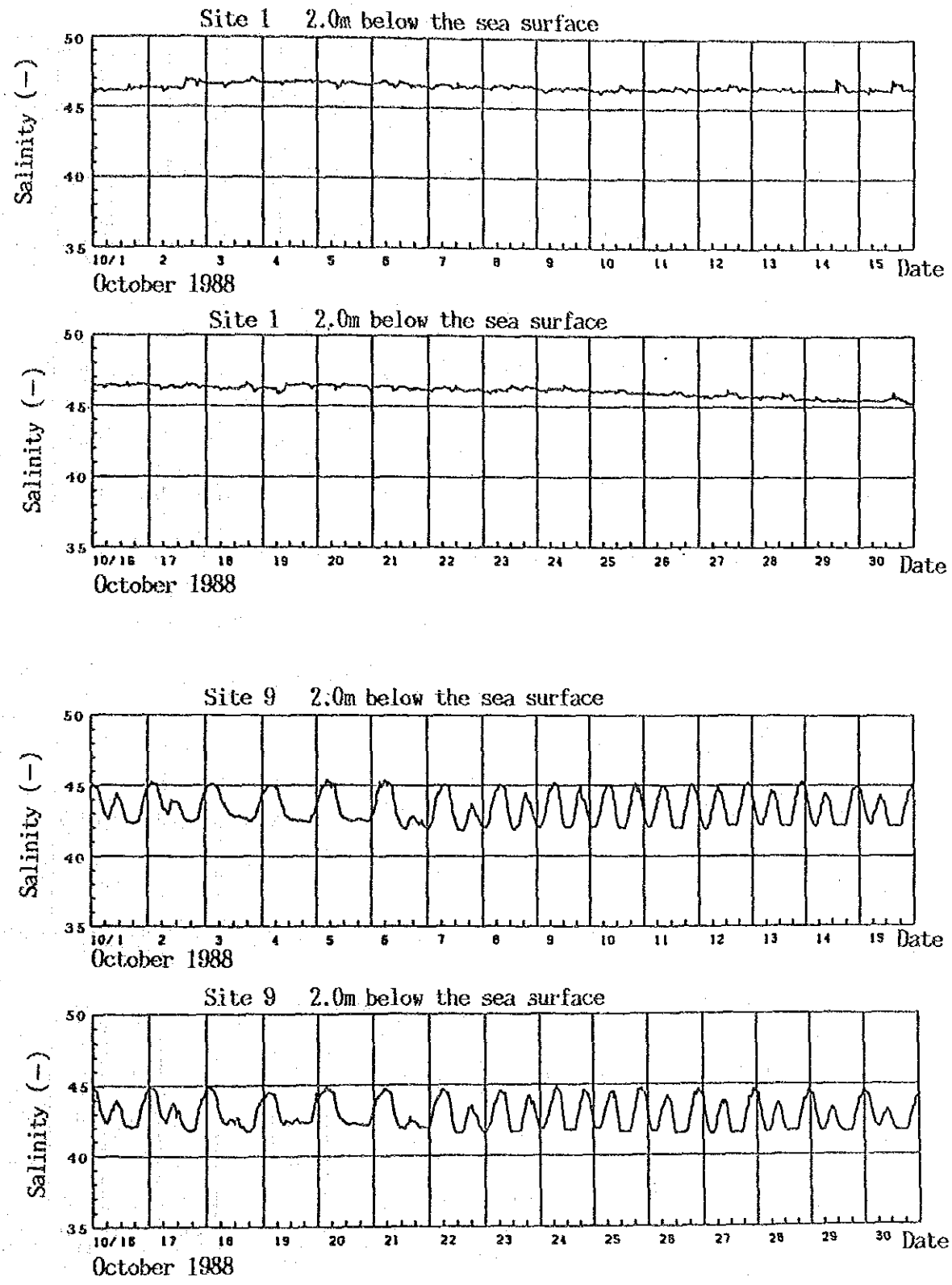


Fig. 3.10.20(1) Consecutive Observations of Salinity in the Second Field Survey

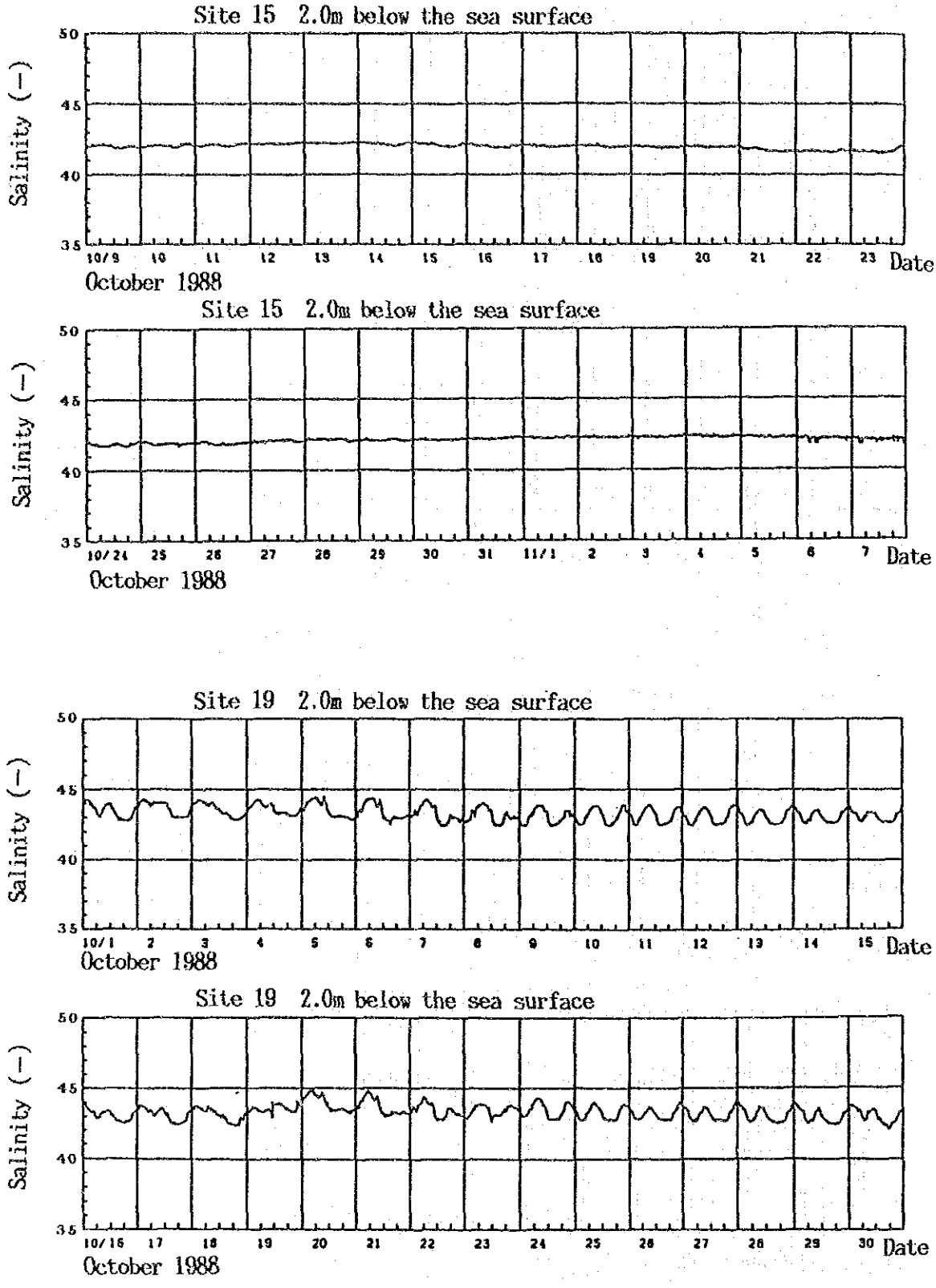
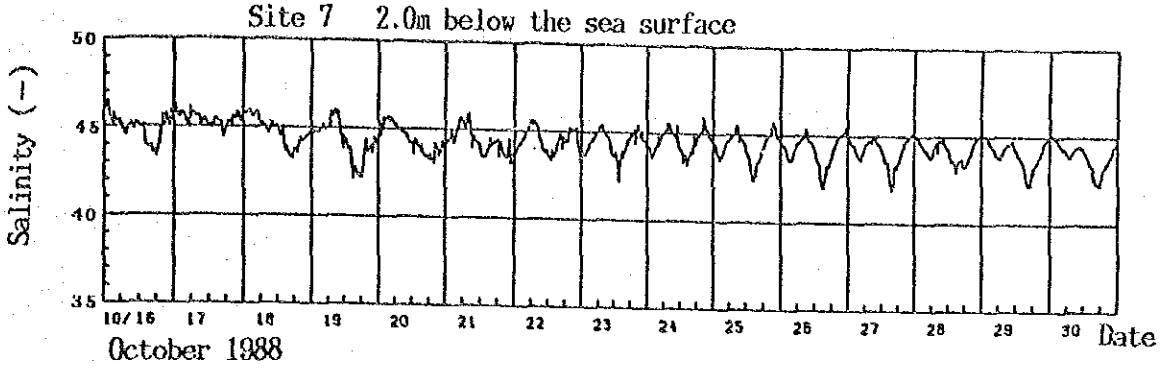
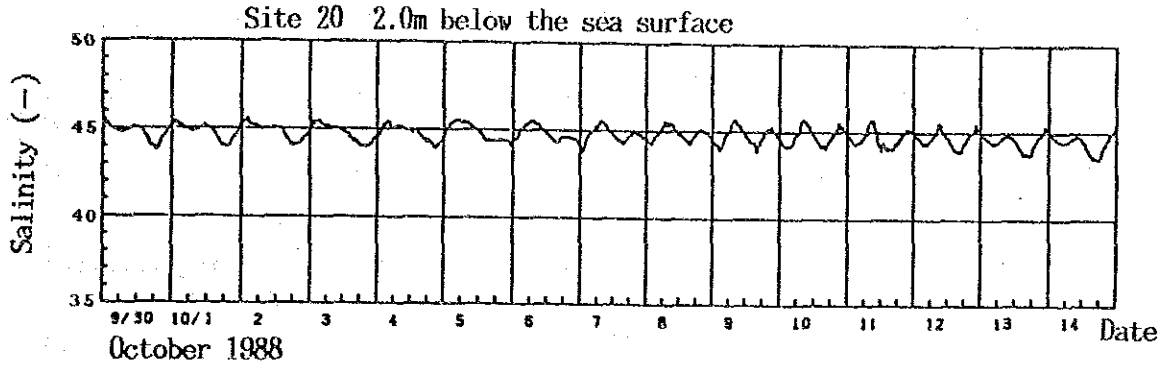
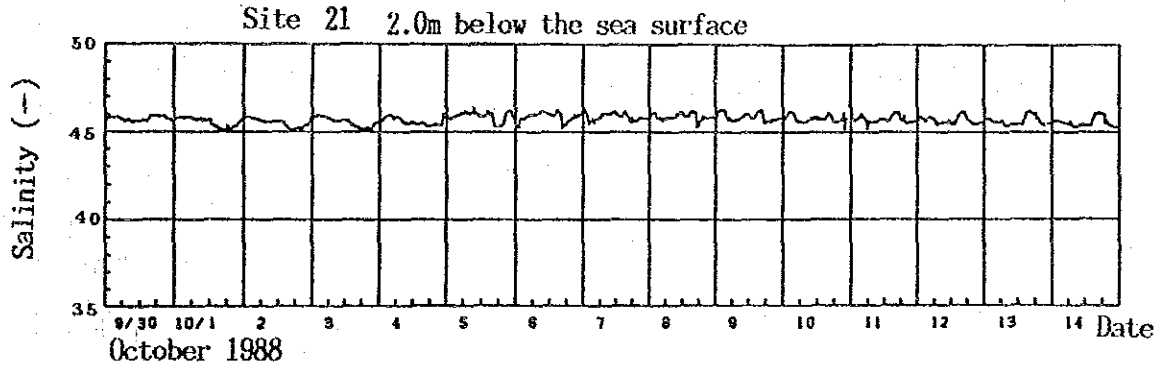


Fig. 3.10.20(2) Consecutive Observations of Salinity in the Second Field Survey







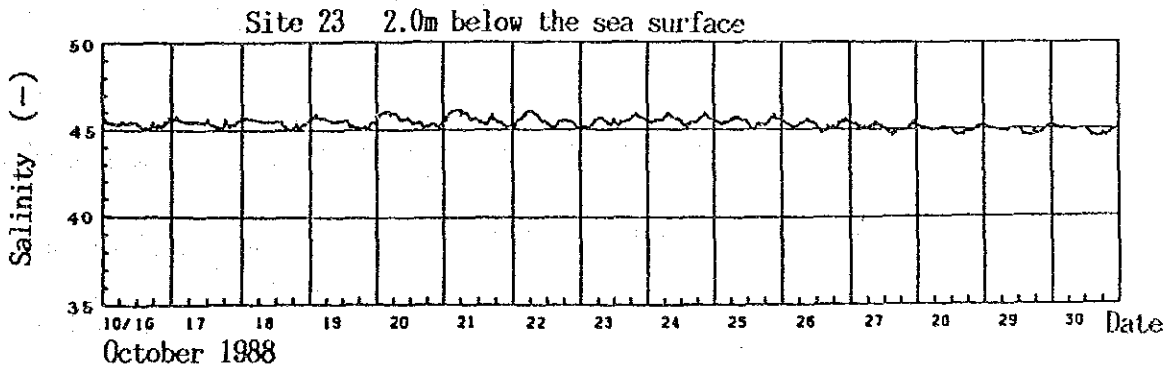
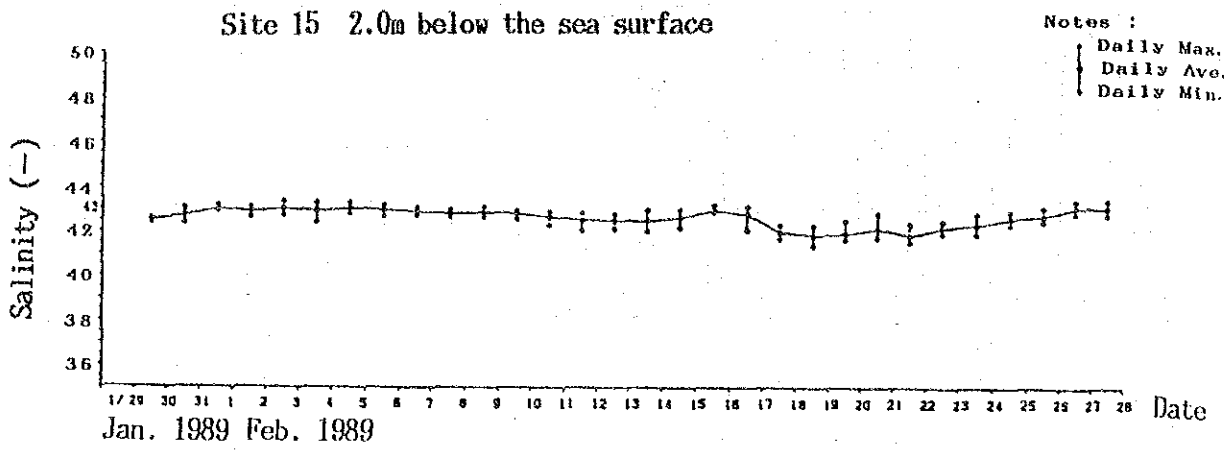
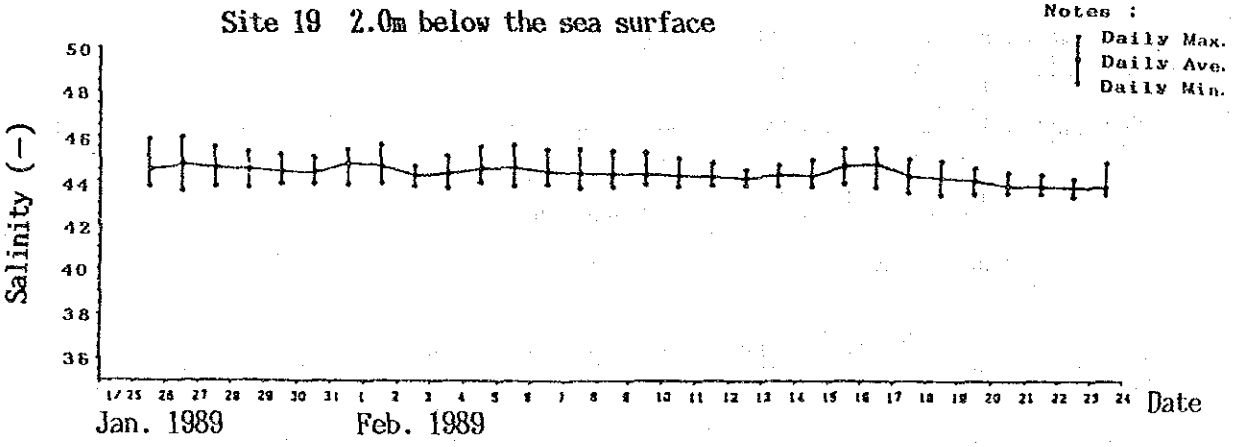


Fig. 3.10.20(3) Consecutive Observations of Salinity in the Second Field Survey





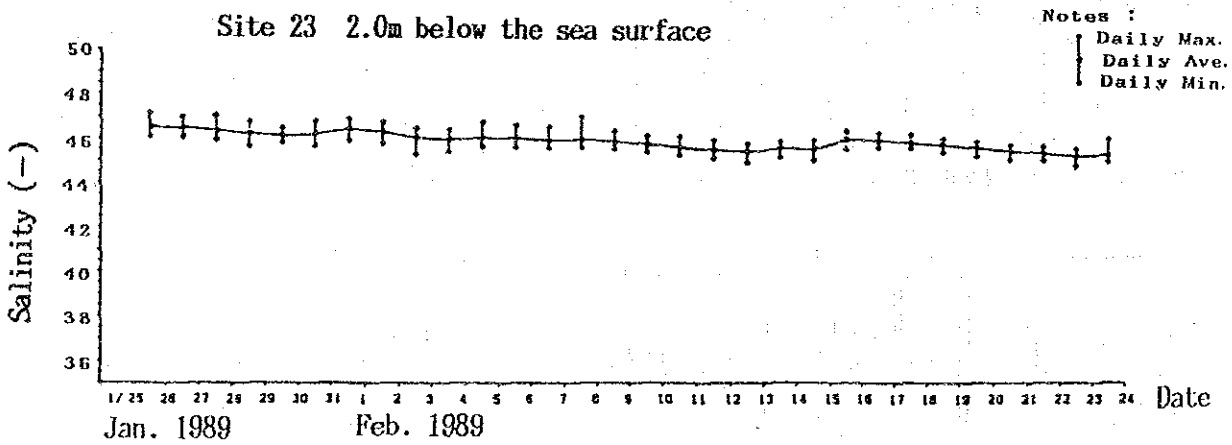
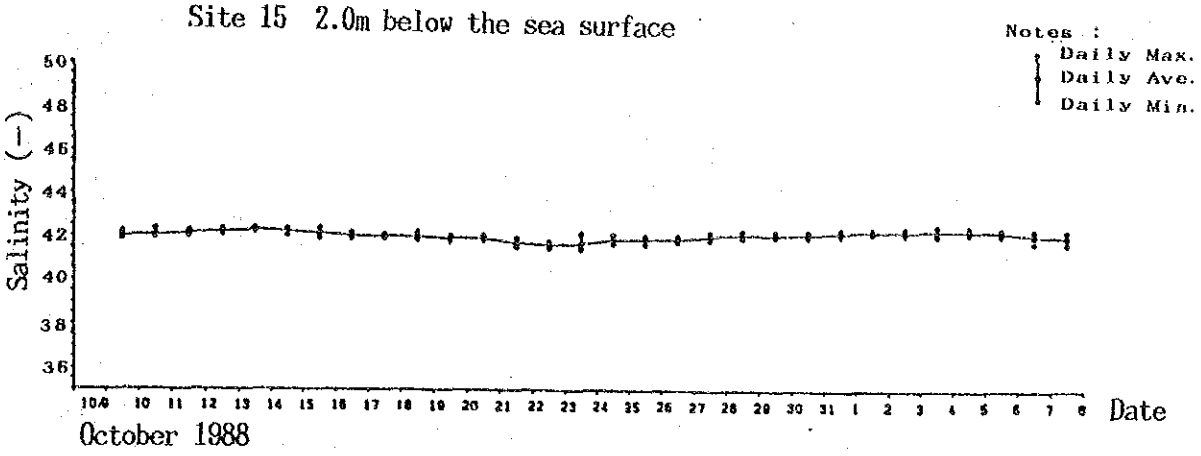


Fig. 3.10.21(1) Variation of Daily Salinity at Typical Sites in the Second Field Survey



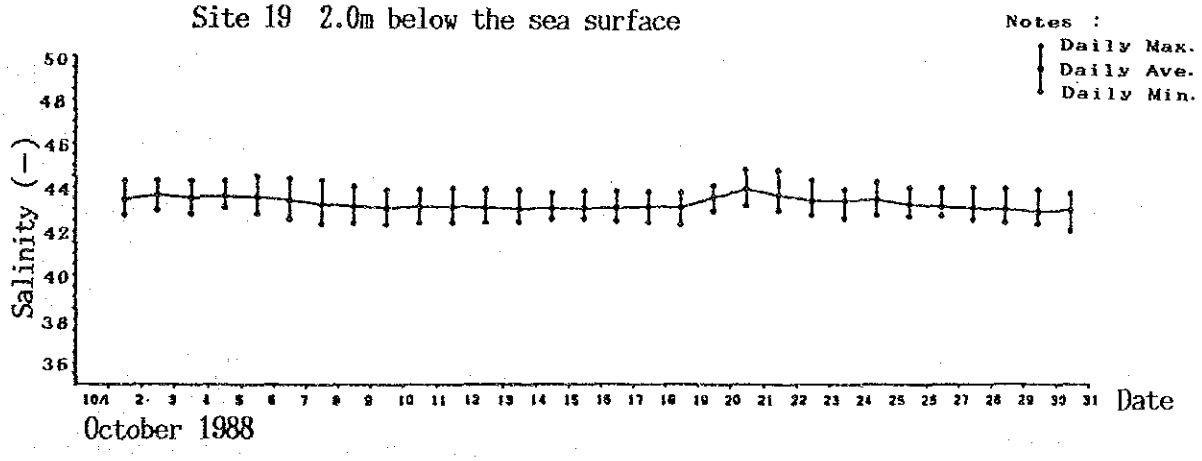
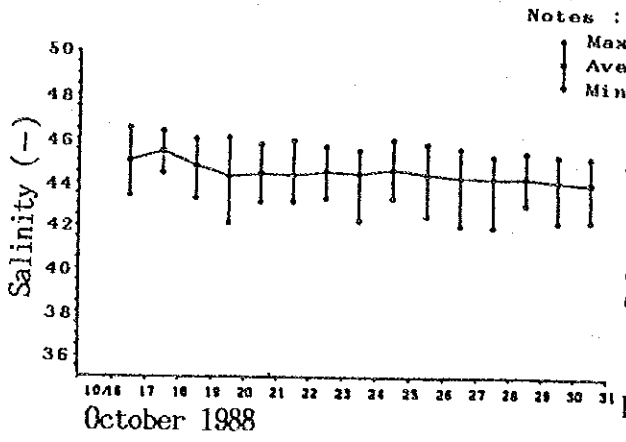
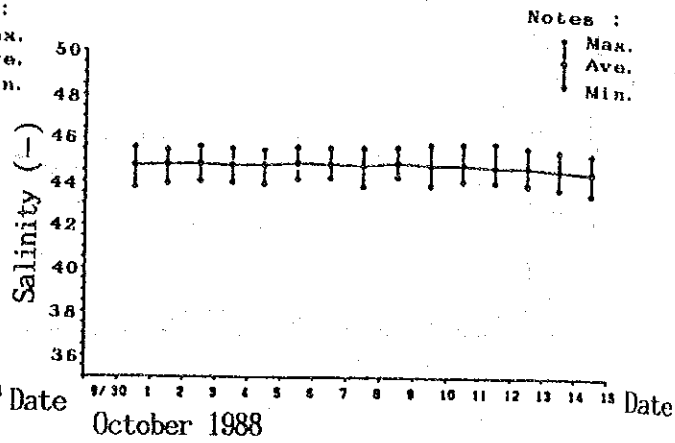


Fig. 3.10.21(2) Variation of Daily Salinity at Typical Sites in the Second Field Survey

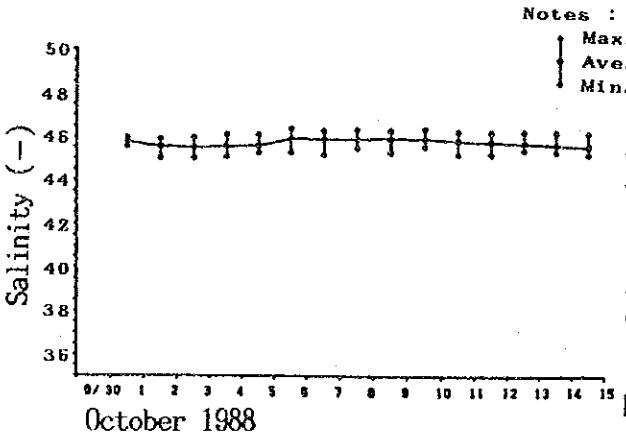
Site 7 2.0m below the sea surface



Site 20 2.0m below the sea surface



Site 21 2.0m below the sea surface



Site 23 2.0m below the sea surface

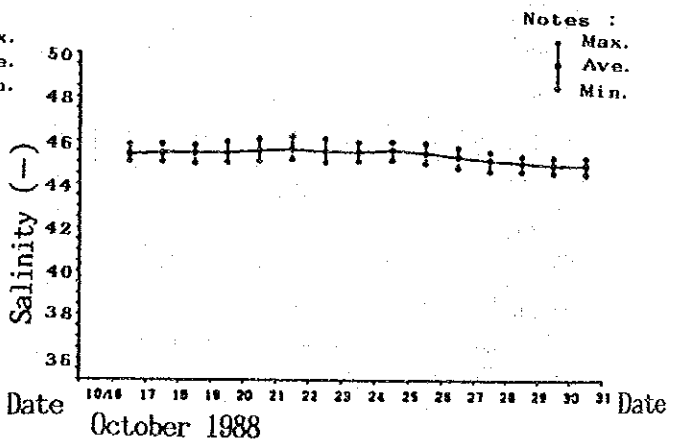


Fig. 3.10.21(3) Variation of Daily Salinity at Typical Sites in the Second Field Survey

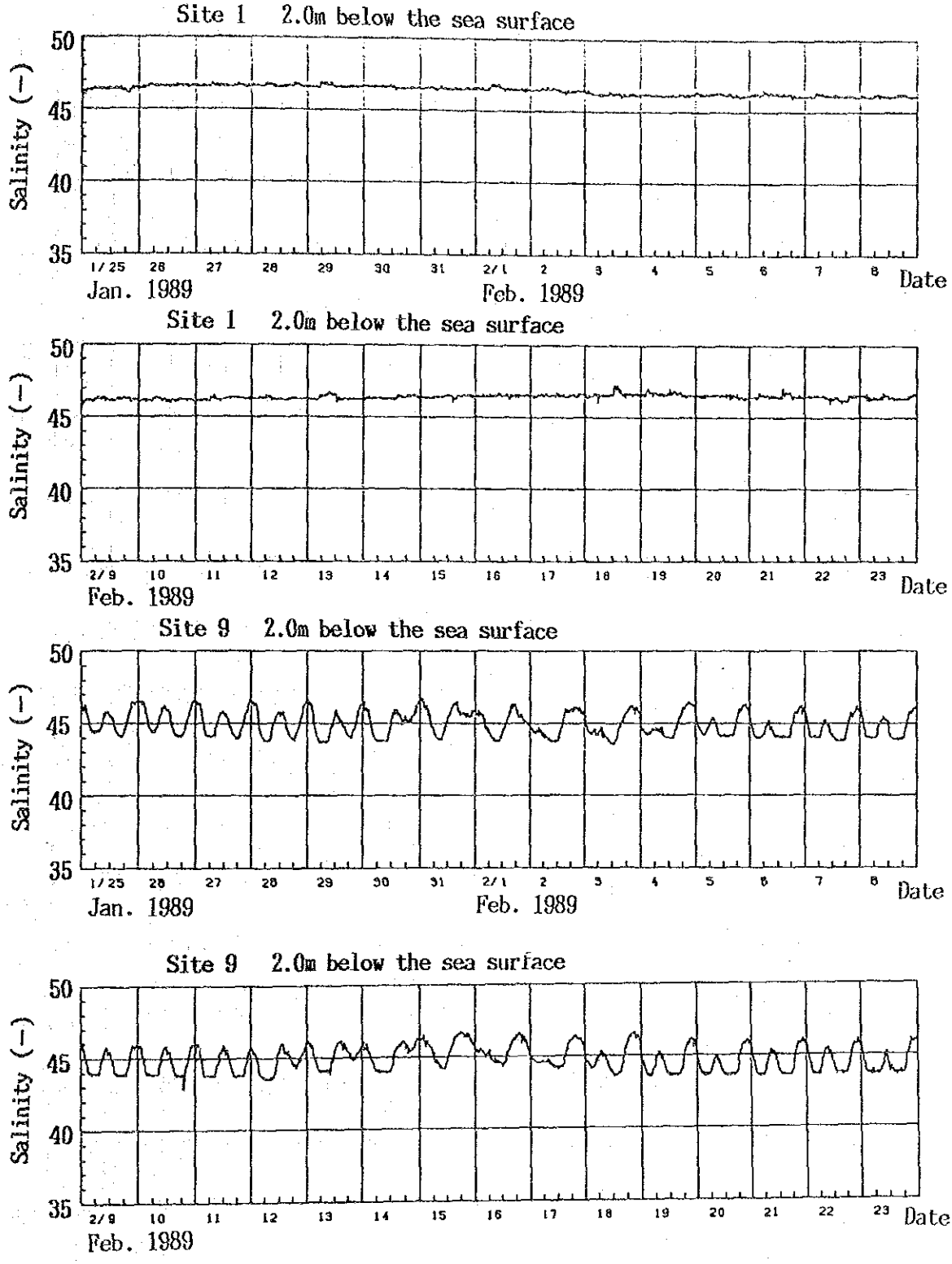


Fig. 3.10.22(1) Consecutive Observations of Salinity in the Third Field Survey

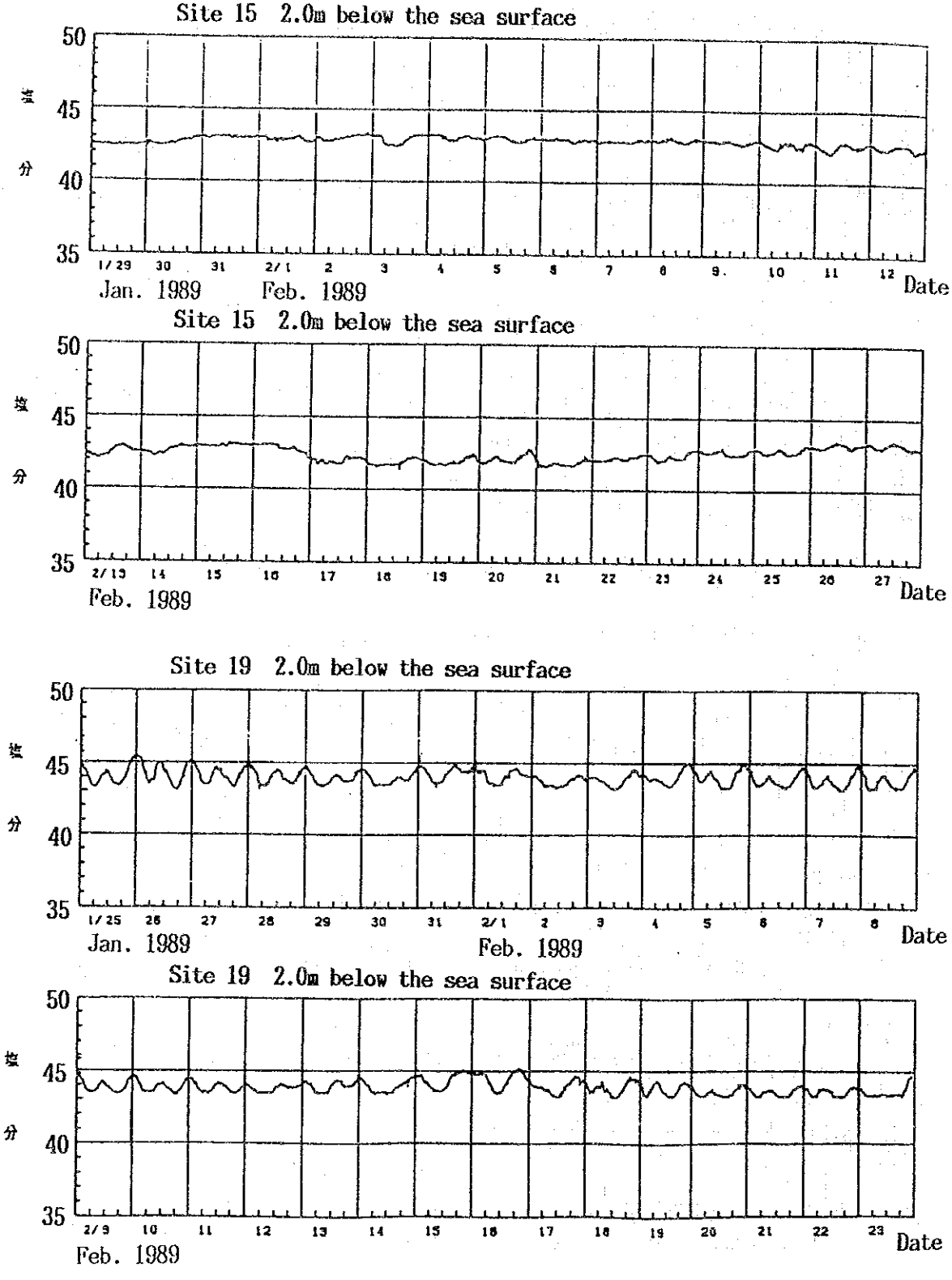


Fig. 3.10.22(2) Consecutive Observations of Salinity in the Third Field Survey

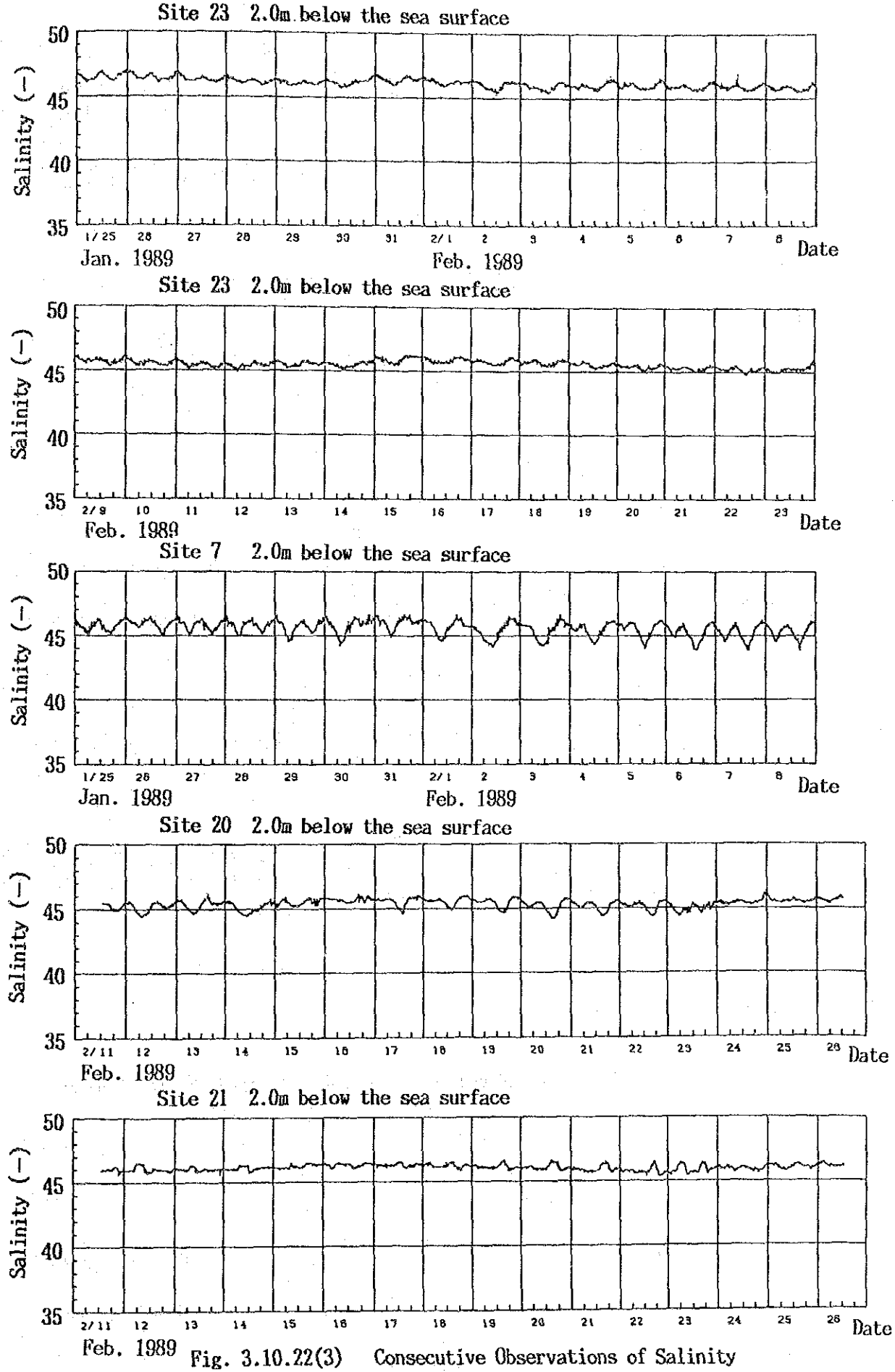
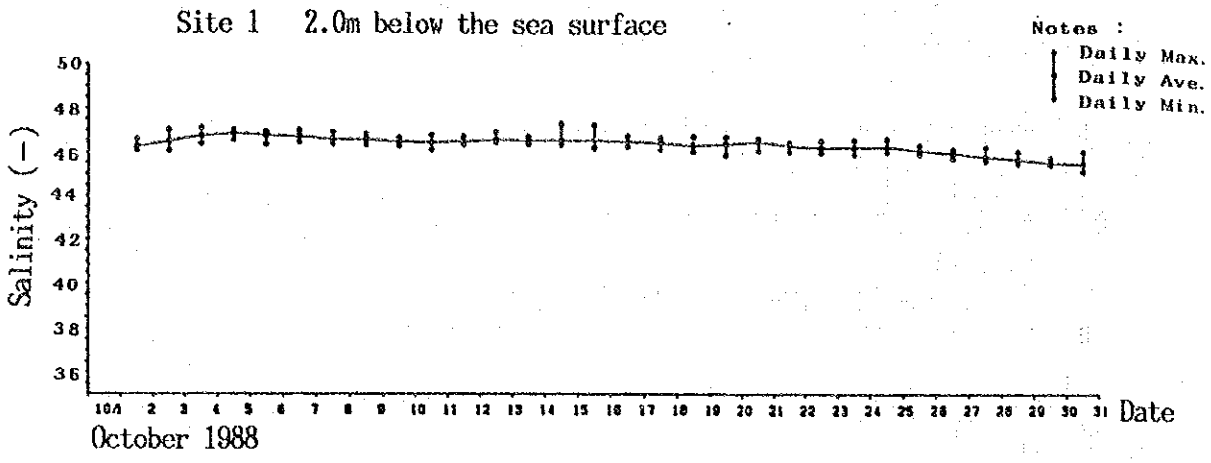


Fig. 3.10.22(3) Consecutive Observations of Salinity in the Third Field Survey



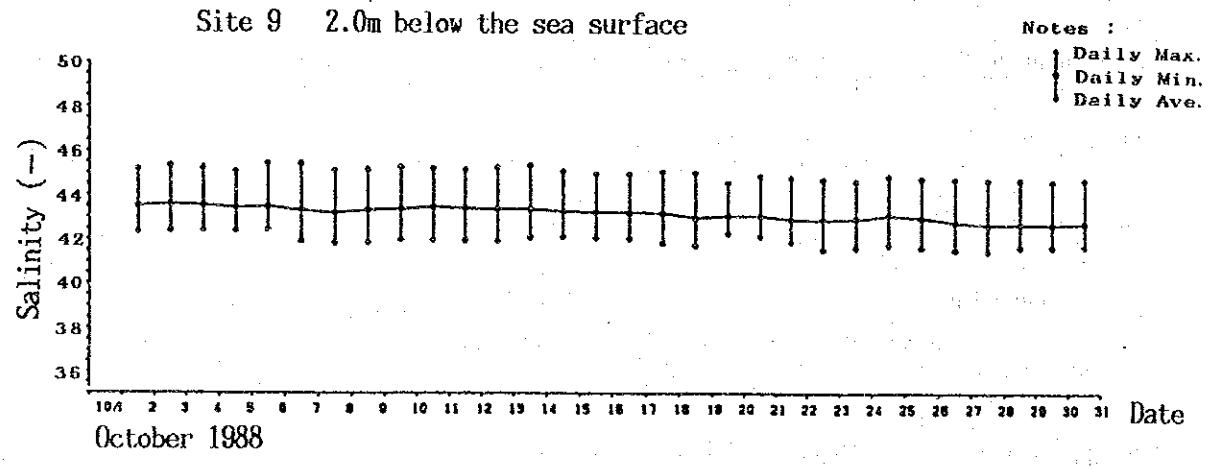
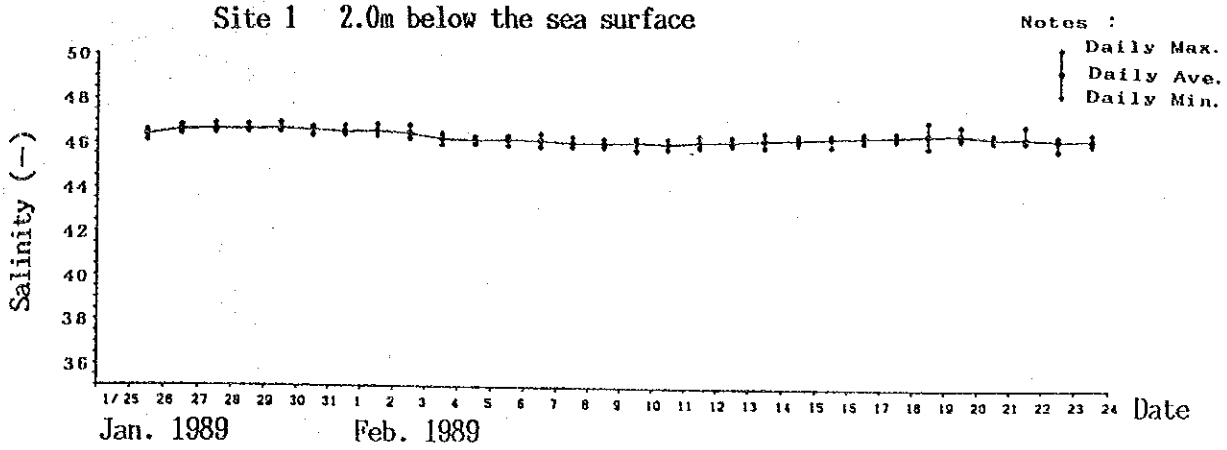


Fig. 3.10.23(1) Variation of Daily Salinity at Typical Sites in the Third Field Survey



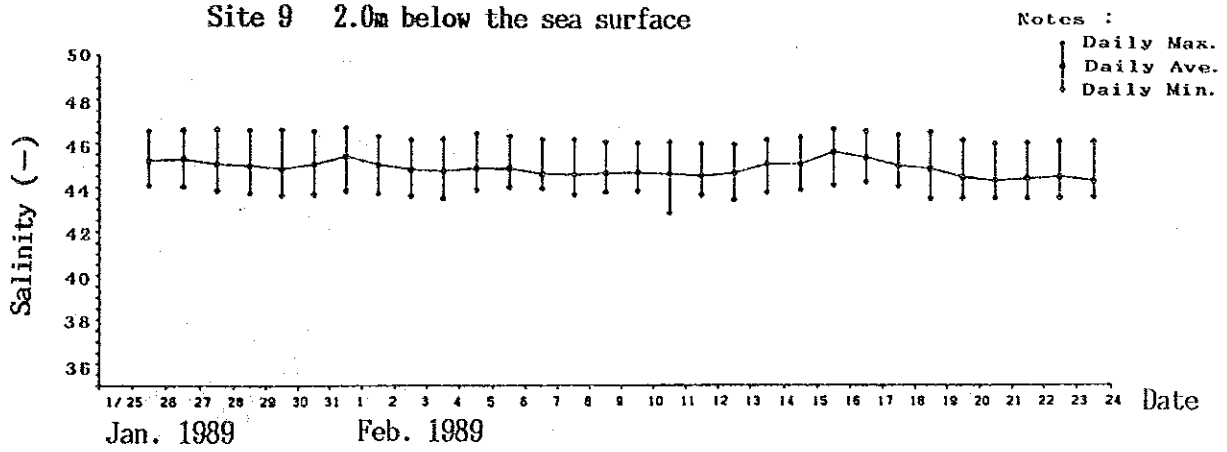


Fig. 3.10.23(2) Variation of Daily Salinity at Typical Sites in the Third Field Survey

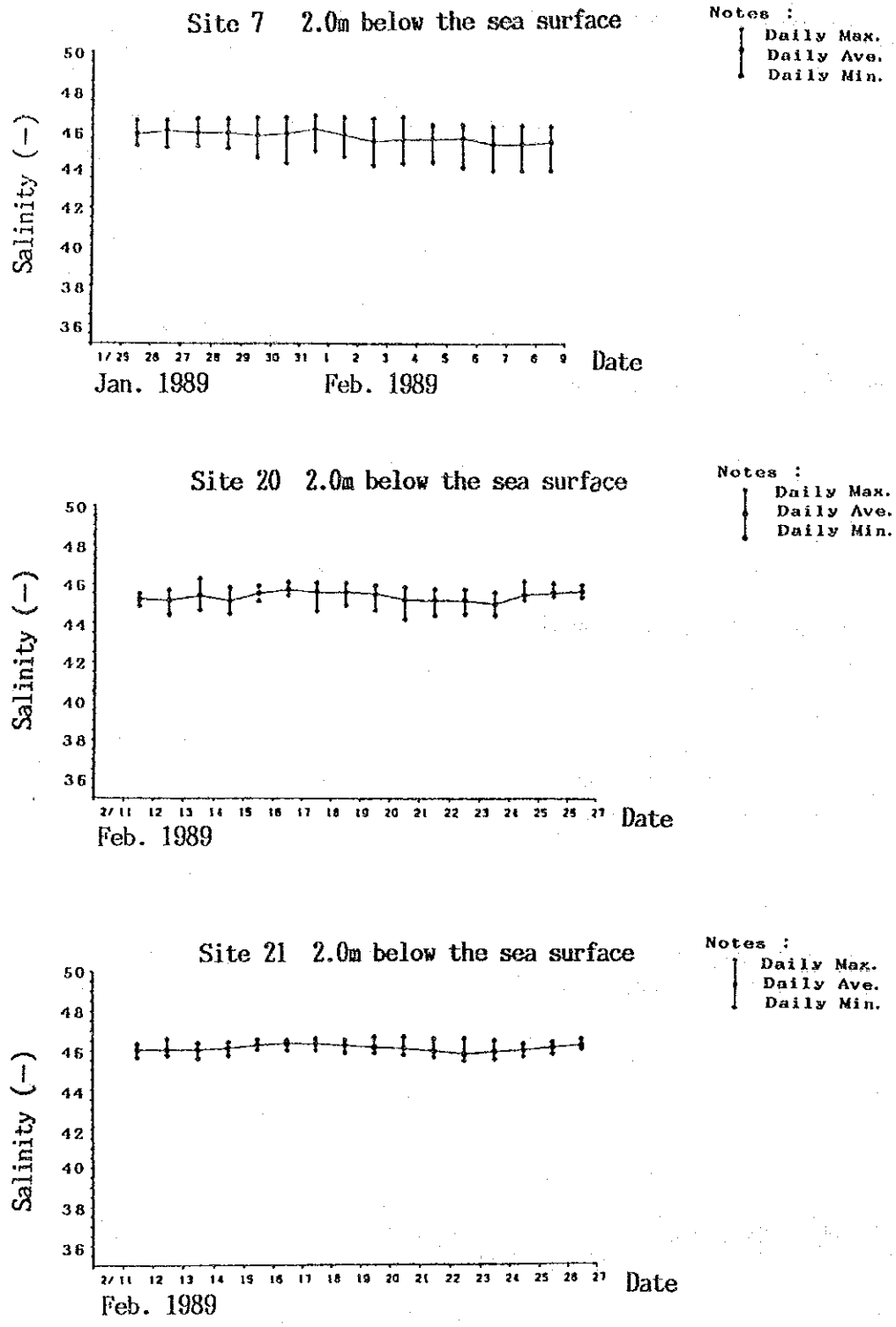


Fig. 3.10.23(3) Variation of Daily Salinity at Typical Sites in the Third Field Survey

Table 3.10.12(1) Occurrence Phytoplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

No.	Kind	Site		1-A		2	9		13		15		Total	Occured points
		Layer(m)		0.3	7	0.3	0.3	4	0.3	5	0.3	13		
		Settling volume (ml/m³)		55.0	50.0	70.0	35.0	35.0	20.0	30.0	15.0	25.0		
1	BACILLARIOPHYCEAE	*Skeletonema*	*costatum*				1152	240	432				1824	3
2		*Leptocylindrus*	*danicus*				3024	3000	3168	3360	68352	37440	118344	6
3		*Thalassiosira*	spp.	256	48			240		120			664	4
4		Thalassiosiraceae								360			360	1
5		*Rhizosolenia*	*calcar avis*					240	72		240	120	672	4
6		*R.*	*fragillima*	128			288	840	936	600	816	2640	6248	7
7		*R.*	*stolterfothii*				1152	960	216		96	360	2784	5
8		*Bacteriastrum*	sp.	5248		28608	18144	1560					53560	4
9		*Chaetoceros*	*curvisetum*	256									256	1
10		*C.*	*lorenzianum*								192		192	1
11		*C.*	spp.				576		504	1320			2400	3
12		*Eucampia*	*cornuta*								96		96	1
13		*Navicula*	spp.		192			120					312	2
14		*Pleurosigma*	spp.		336	384		120		240			1080	4
15		*Nitzschia*	*closterium*	256	144	192	720	360					1672	5
16		*N.*	*longissima v. reversa*	128									128	1
17		*N.*	sp. (*pungens*)	1536	576	576	288	360					3336	5
18		*Amphiprora*	sp.	128		192				120			440	3
19		*Amphora*	spp.					120					120	1
20		*Cymbella*	spp.	128	48		144			120			440	4
21		*Cocconeis*	sp.				144						144	1
22	DINOPHYCEAE	*Prorocentrum*	*micans*	512	384	960	432	120	504	240	336	240	3728	9
23		*P.*	*sigmoides*		96		144				48		288	3
24		*Pronoctiluca*	sp.								576	1440	2016	2
25		*Gymnodinium*	spp.							120			120	1
26		Gymnodiniales							216	720	144	360	1440	4
27		*Gonyaulax*	spp.		48								48	1
28		*Scrippsiella*	sp.	384	96		432	120	432	240	48	120	1872	6
29		*Protoperidinium*	spp.	1024	480	192	288	360	72	360	144		2920	6
30		*Ceratium*	*furca*		48	192			72		48	120	480	5
31		Peridiniales		256	576	384	144	120	72	120		480	2152	6
32	CRYPTOPHYCEAE	Cryptophyceae					432		648	2520	1152		4752	4
33	PRASINOPHYCEAE	Prasinophyceae								2160	288		2448	2
34	EUGLENOPHYCEAE	Euglenophyceae		384	192			120	72	120		120	1008	6
35	MASTIGOPHORA			3456			432		216	720			4824	4
	Total number of cells			14080	3264	31680	27936	9000	7632	13560	72576	43440	223168	
	Total number of species			15	14	9	17	17	15	18	15	11		131

Remarks····Unit:cells/ℓ

Table 3.10.12(2) Occurrence Phytoplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

No.	Kind	Site		1-A		2	9		13		15		Total	Occured points
		Layer(m)		0.3	7	0.3	0.3	4	0.3	6	0.3	13		
		Settling volume: (ml/m³)		30.0	30.0	60.0	15.0	40.0	30.0	35.0	10.0	20.0		
1	BACILLARIOPHYCEAE	*Skeletonema*	*costatum*			576		480					1056	2
2		*Leptocylindrus*	*danicus*		96		3456	4560	432	1584	90384	34656	135168	7
3		Thalassiosiraceae							13824	34128			47952	2
4		*Rhizosolenia*	*calcar avis*							144	240	192	576	3
5		*R.*	*fragillima*		192			240	864	2448	2256	2304	8304	6
6		*R.*	*imbricata*				72						72	1
7		*R.*	*stolterfothii*				144	120			48	192	504	4
8		*Bacteriastrum*	sp.			5376	1944	1800	864				8984	4
9		*Chaetoceros*	*costatum*				360						360	1
10		*C.*	*curvisetum*				216	360					576	2
11		*C.*	*didymum v. anglica*					360					360	1
12		*C.*	*lauderi*					720					720	1
13		*C.*	*lorenzianum*				216						216	1
14		*C.*	spp.				1944	4440	576		240	288	7488	5
15		*Navicula*	spp.	96	144	192		120	288				840	5
16		*Diploneis*	sp.									96	96	1
17		*Pleurosigma*	spp.	288	48	192			144	288			960	5
18		*Nitzschia*	*closterium*	576	288	384	72		2160	3312			6792	6
19		*N.*	*longissima v. reversa*		48	384						96	528	3
20		*N.*	sp. (*pungens*)	720	384								1104	2
21		*Amphiprora*	sp.						288				288	1
22		*Amphora*	spp.							144			144	1
23		*Cymbella*	spp.				72	120					192	2
24	DINOPHYCEAE	*Prorocentrum*	*micans*	48	48	960	144		864	144	528	288	3024	8
25		*P.*	*sigmoides*		48			120					168	2
26		*Pronoctiluca*	sp.								1056	1056	2112	2
27		*Gymnodinium*	*splendens*				72						72	1
28		*G.*	spp.				144			144		288	576	3
29		Gymnodiniales			192	192	432	360			288	1536	3000	6
30		*Gonyaulax*	spp.				72	120				96	288	3
31		*Scrippsiella*	sp.	48	48		360			144	144	96	840	6
32		*Protoperidinium*	spp.	96	144		216	120		144	96	384	1200	7
33		*Ceratium*	*furca*					120			96	96	312	3
34		Peridiniales		624	240	384	432	480			144	288	2592	7
35	CRYPTOPHYCEAE	Cryptophyceae			864		1080		864	1728	576	288	5400	6
36	HAPTOPHYCEAE	Haptophyceae									144	288	432	2
37	PRASINOPHYCEAE	Prasinophyceae					216					864	1080	2
38	EUGLENOPHYCEAE	Euglenophyceae		1728	624	192				144			2688	4
39	MASTIGOPHORA					192	432			432			1056	3
	Total number of cells			4224	3408	9024	12096	14640	21168	44928	96240	43392	249120	
	Total number of species			9	15	11	21	17	11	14	14	19		131

Remarks····Unit:cells/ℓ

Table 3.10.13(1) Tabulation at Each Class of Phytoplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	4	0.3	5	0.3	13	
Settling volume(mℓ/m³)	55.0	50.0	70.0	35.0	35.0	20.0	30.0	15.0	25.0	
BACILLARIOPHYCEAE	8064	1344	29952	25632	8160	5328	6240	69792	40560	195072
	57.3	41.2	94.5	91.8	90.7	69.8	46.0	96.2	93.4	87.4
DINOPHYCEAE	2176	1728	1728	1440	720	1368	1800	1344	2760	15064
	15.5	52.9	5.5	5.2	8.0	17.9	13.3	1.9	6.4	6.8
CRYPTOPHYCEAE				432		648	2520	1152		4752
				1.5		8.5	18.6	1.6		2.1
PRASINOPHYCEAE							2160	288		2448
							15.9	0.4		1.1
EUGLENOPHYCEAE	384	192			120	72	120		120	1008
	2.7	5.9			1.3	0.9	0.9		0.3	0.5
MASTIGOPHORA	3456			432		216	720			4824
	24.5			1.5		2.8	5.3			2.2

Remarks····Unit:cells/ℓ lower column····%

Table 3.10.13(2) Tabulation at Each Class of Phytoplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	4	0.3	6	0.3	13	
Settling volume(ml/m³)	30.0	30.0	60.0	15.0	40.0	30.0	35.0	10.0	20.0	
BACILLARIOPHYCEAE	1680	1200	7104	8496	13320	19440	42048	93168	37824	224280
	39.8	35.2	78.7	70.2	91.0	91.8	93.6	96.8	87.2	90.0
DINOPHYCEAE	816	720	1536	1872	1320	864	576	2352	4128	14184
	19.3	21.1	17.0	15.5	9.0	4.1	1.3	2.4	9.5	5.7
CRYPTOPHYCEAE		864		1080		864	1728	576	288	5400
		25.4		8.9		4.1	3.8	0.6	0.7	2.2
HAPTOPHYCEAE								144	288	432
								0.1	0.7	0.2
PRASINOPHYCEAE				216					864	1080
				1.8					2.0	0.4
EUGLENOPHYCEAE	1728	624	192				144			2688
	40.9	18.3	2.1				0.3			1.1
MASTIGOPHORA			192	432			432			1056
			2.1	3.6			1.0			0.4

Remarks····Unit:cells/ℓ lower column····%

Table 3.10.14(1) Occurrence Zooplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

No.	Kind	Site		1-A		2	9		13		15		Total	Occured points
		Layer(m)		0.3	7	0.3	0.3	4	0.3	5	0.3	13		
		Settling volume (ml/m³)		55.0	50.0	70.0	35.0	35.0	20.0	30.0	15.0	25.0		
1	CILIATA	*Didinium*	sp.		7				2	7	1		17	4
2		Holotrichida		2		4	26	20	26	24	100	15	217	8
3		Oligotrichida		34	24	7	41	14	34	46	125	9	334	9
4		*Tintinnidium*	*mucicola*	2									2	1
5		*Tintinnopsis*	*karajacensis*	113	36	158	46	4	1		4	6	368	8
6		*T.*	*nana*								1		1	1
7		*T.*	*platensis*			7	7	10	2		14		40	5
8		*T.*	spp.	12	17	29	10	2	6	12	3	3	94	9
9		*Helicostomella*	*longa*	7	2								9	2
10		*Favella*	*azorica*	5	7				1	2	7		22	5
11		*F.*	*ehrenbergii*				2			2			4	2
12		*Eutintinnus*	*fraknoii*						6	5	12		23	3
13		*E.*	*lusus-undae*						2		1		3	2
14		*E.*	spp.	5					1				6	2
15		Tintinnida		2	2		38	12	1	14	5	9	83	8
16	FORAMINIFERA	Foraminifera					2					3	5	2
17	HYDROZOA	Hydroida		2									2	1
18	ROTATORIA	*Synchaeta*	sp.			4	1		1	2	1	3	12	6
19	NEMATODA	Nematoda				2							2	1
20	COPEPODA	*Oithona*	*brevicornis*		5			2					7	2
21		*O.*	*simplex*	2				4	1				7	3
22		*O.*	spp.									3	3	1
23		*Corycaeus*	spp.									1	1	1
24		*Microsetella*	*norvegica*							2			2	1
25		*Euterpina*	*actifrons*				2	2			2		6	3
26		Copepodite stage larva of *Paracalanus*					2			1		6	9	3
27		Copepodite stage larva of *Acartia*										3	3	1
28		Copepodite stage larva of *Tortanus*					2					3	5	2
29		Copepodite stage larva of *Oithona*		2	1		7	8	2	14	70	60	164	8
30		Copepodite stage larva of *Saphirella*									1		1	1
31		Copepodite stage larva of *Corycaeus*								1			1	1
32		Copepodite stage larva of Cyclopoida								3	2		4	2
33		Copepodite stage larva of *Euterpina*										1	1	1
34		Copepodite stage larva of Harpacticoida				4							4	1
35		Nauplius stage larva of Copepoda		38	26	40	91	74	35	86	138	165	893	9
36	APPENDICULARIA	*Appendicularia*	*sicula*				24	8	24	53	83	54	226	6
37		*Oikopleura*	*dioica*				5	1	8	7	5	9	35	6
38		*O.*	*longicauda*								1		1	1
39		*O.*	spp.	2			10	12	16	19	5	16	82	7
40	LARVA	Polychaeta larva		12	7	18	5	2	4	2	2	3	55	9
41		Gastropoda larva		2			5	14	1	5	1	9	37	7
42		D-shaped larva of Bivalvia		7	2	4	53	14	2	31		21	134	8
43		Umbo stage larva of Bivalvia			5		5	4		7	1		22	5
44		Pluteus stage larva of Echinodermata								2	1		3	2
	Total number of individuals			249	141	277	384	207	176	346	566	404	2750	
	Total number of species			17	13	11	21	18	21	23	25	21		170

Remarks··· Unit:individuals/ℓ

Table 3.10.14(2) Occurrence Zooplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

No.	Kind	Site		1-A		2	9		13		15		Occured Total	
		Layer(m)		0.3	7	0.3	0.3	4	0.3	6	0.3	13		
		Settling volume (mℓ/m³)		30.0	30.0	60.0	15.0	40.0	30.0	35.0	10.0	20.0		points
1	CILIATA	*Didinium*	sp.				2		3		4		9	3
2		*Tiarina*	*fusus*				2						2	1
3		Holotrichida		6	2		61	6	6	31	158	29	299	8
4		Oligotrichida		3	12		47	19	11	17	92	22	223	8
5		*Tintinnidium*	*mucicola*							2	2		4	2
6		*Tintinnopsis*	*karajacensis*	31	12	48	2	6	11	7	32	1	150	9
7		*T.*	*platensis*				5	16	6	10	5		42	5
8		*T.*	spp.	8	10	6			6	7			37	5
9		*Favella*	*azorica*		2	3	4				5		14	4
10		*F.*	*ehrenbergii*								9	4	13	2
11		*Steenstrupiella*	*steenstrupii*								2		2	1
12		*Eutintinnus*	*fraknoii*				5						5	1
13		*E.*	*lusus-undae*				2				4	4	10	3
14		*E.*	spp.				5				5	4	14	3
15		Tintinnida					47	29	3	5	9	18	111	6
16	FORAMINIFERA	Foraminifera				10		3		2			15	3
17	ROTATORIA	*Synchaeta*	sp.					2		7	2	4	15	4
18	NEMATODA	Nematoda			2	3							5	2
19	COPEPODA	*Oithona*	*brevicornis*		1	3	1	3		2	4		14	6
20		*O.*	*simplex*						3			4	7	2
21		*O.*	spp.							2		4	6	2
22		*Euterpina*	*acutifrons*								4		4	1
23		Copepodite stage larva of *Paracalanus*			1	3	2		3		4		13	5
24		Copepodite stage larva of *Acartia*		1							2		3	2
25		Copepodite stage larva of *Oithona*			2	2	45	3	34	34	83	7	210	8
26		Copepodite stage larva of *Saphirella*									4	4	8	2
27		Copepodite stage larva of Cyclopoida						3	3		2		8	3
28		Copepodite stage larva of *Euterpina*							1		1		2	2
29		Copepodite stage larva of Harpacticoida										4	4	1
30		Nauplius stage larva of Copepoda		59	30	26	121	38	42	62	196	90	664	9
31	APPENDICULARIA	*Appendicularia*	*sicula*				20	26	6	2	187	79	320	6
32		*Oikopleura*	*dioica*				4	3	3	7	11	4	32	6
33		*O.*	*longicauda*						3				3	1
34		*O.*	spp.				27	26	8	31	2	4	98	6
35	LARVA	Polychaeta larva		6		3	23	3	3	7	7	7	59	8
36		Gastropoda larva		1	2	6	7	19		2	5	4	46	8
37		D-shaped larva of Bivalvia					112	67	6	5		40	230	5
38		Umbo stage larva of Bivalvia					2	3		2	2	4	13	5
39		Pluteus stage larva of Echinodermata								2			2	1
	Total number of individuals			115	78	113	546	275	161	246	843	341	2716	
	Total number of species			8	11	11	22	18	19	21	28	21		159

Remarks····Unit:individuals/ℓ

Table 3.10.15(1) Tabulation at Each Class of Zooplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	4	0.3	5	0.3	13	
Settling volume(mℓ/m³)	55.0	50.0	70.0	35.0	35.0	20.0	30.0	15.0	25.0	
CILIATA	182 73.1	95 67.4	205 74.0	170 44.3	62 30.0	82 46.6	112 32.4	273 46.2	42 10.4	1223 44.5
FORAMINIFERA				2 0.5					3 0.7	5 0.2
HYDROZOA	2 0.8									2 0.1
ROTATORIA			4 1.4	1 0.3		1 0.6	2 0.6	1 0.2	3 0.7	12 0.4
NEMATODA			2 0.7							2 0.1
COPEPODA	42 16.9	32 22.7	44 15.9	104 27.1	90 43.5	38 21.6	106 30.6	213 37.6	242 59.9	911 33.1
APPENDICULARIA	2 0.8			39 10.2	21 10.1	48 27.3	79 22.8	74 13.1	81 20.0	344 12.5
LARVA	21 8.4	14 9.9	22 7.9	68 17.7	34 16.4	7 4.0	47 13.6	5 0.9	33 8.2	251 9.1

Remarks····Unit:individuals/ ℓ lower column····%

Table 3.10.15(2) Tabulation at Each Class of Zooplankton of Sampling Water Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	4	0.3	6	0.3	13	
Settling volume(mℓ/m³)	30.0	30.0	60.0	15.0	40.0	30.0	35.0	10.0	20.0	
CILIATA	48	38	57	162	76	46	79	327	62	935
	41.7	50.0	50.4	33.3	27.6	28.6	32.1	38.8	24.0	34.4
FORAMINIFERA			10		3		2			15
			8.8		1.1		0.8			0.6
ROTATORIA					2		7	2	4	15
					0.7		2.8	0.2	1.2	0.6
NEMATODA		2	3							5
		2.6	2.7							0.2
COPEPODA	60	34	34	169	47	86	100	300	113	943
	52.2	44.7	30.1	31.0	17.1	53.4	40.7	35.6	33.1	34.7
APPENDICULARIA				51	55	20	40	200	87	453
				9.3	20.0	12.4	16.3	23.7	25.5	16.7
LARVA	7	2	9	144	92	9	18	14	55	350
	6.1	2.6	8.0	26.4	33.5	5.6	7.3	1.7	16.1	12.9

Remarks····Unit:individuals/ ℓ lower column····%

Table 3.10.16(1) Occurrence Zooplankton of Net Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

No.	Kind	Site / Layer(m) / Settling volume (ml/m³)		1-A 0-7 1.1	8 0-4 1.3	13 0-5 2.5	15 0-13 2.0	Total	Occured points
1	CILIATA	Oligotrichida			38			38	1
2		*Tintinnopsis*	spp.			600		600	1
3		*Favella*	*ehrenbergii*			150		150	1
4		*Epiplocylis*	sp.	71				71	1
5		*Eutintinnus*	*lusus-undae*	71				71	1
6		Ciliata			150	150		300	2
7	HYDROZOA	Hydroida				150		150	1
8	COPEPODA	*Paracalanus*	*crassirostris*		38	150	80	268	3
9		*P.*	*parvus*		38		80	118	2
10		*Centropages*	sp.				80	80	1
11		*Acartia*	sp.				160	160	1
12		*Oithona*	*brevicornis*	357	188	300	640	1485	4
13		*O.*	*simplex*			150		150	1
14		*O.*	sp.	71				71	1
15		*Corycaeus*	spp.		75		80	155	2
16		*Euterpina*	*acutifrons*		133		400	533	2
17		Copepodite stage larva of Paracalanidae		143	300	1050	2000	3493	4
18		Copepodite stage larva of *Centropages*					240	240	1
19		Copepodite stage larva of *Labidocera*					80	80	1
20		Copepodite stage larva of *Acartia*		143	188	300	1440	2071	4
21		Copepodite stage larva of *Tortanus*					80	80	1
22		Copepodite stage larva of *Oithona*		1286	2250	2700	12160	18396	4
23		Copepodite stage larva of *Euterpina*			225	750	1280	2255	3
24		Nauplius stage larva of Copepoda		12286	1763	1500	1280	16829	4
25	APPENDICULARIA	*Appendicularia*	*sicula*		75	3900	1280	5255	3
26		*Oikopleura*	*dioica*			450	80	530	2
27		*O.*	sp.			450	160	610	2
28	LARVA	Polychaeta larva		214	38	450	800	1502	4
29		Cyphonautes larva of Bryozoa					80	80	1
30		Gastropoda larva		357	1050	1200	2400	5007	4
31		D-shaped larva of Bivalvia		357				357	1
32		Umbo stage larva of Bivalvia		357	975	450	2640	4422	4
33		Nauplius stage larva of Cirripedia		714	675			1389	2
34		Calyptopis stage larva of Euphausiacea					160	160	1
35		Zoëa stage larva of Brachyura			75			75	1
36		Pluteus stage larva of Echinodermata				300	400	700	2
37		Fish larva		71				71	1
	Total number of individuals			16498	8274	15150	28080	68002	
	Total number of species			14	18	19	24		75

Remarks··· Unit:individuals/m³

Table 3.10.16(2) Occurrence Zooplankton of Net Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

No.	Kind	Site / Layer(m) / Settling volume (ml/m³)		1-A 0-7 1.1	9 0-4 1.3	13 0-5 2.5	15 0-13 2.0	Total	Occured points
1	CILIATA	*Tintinnopsis*	spp.	93				93	1
2		*Favella*	*ehrenbergii*				160	160	1
3		Ciliata			344			344	1
4	HYDROZOA	Hydroida			69		80	149	2
5	COPEPODA	*Paracalanus*	*crassirostris*			275		275	1
6		*P.*	*parvus*			138	80	218	2
7		*Clausocalanus*	*farcatus*			138		138	1
8		*Acartia*	sp.				80	80	1
9		*Oithona*	*brevicornis*	232	756	963	480	2431	4
10		*O.*	*simplex*	46				46	1
11		*O.*	sp.	46			160	206	2
12		*Euterpina*	*acutifrons*	46		688	80	814	3
13		Copepodite stage larva of Paracalanidae		882	206	2063	3440	6591	4
14		Copepodite stage larva of *Centropages*		46	69	275	80	470	4
15		Copepodite stage larva of *Acartia*		46	206	688	240	1180	4
16		Copepodite stage larva of Calanoida				138	80	218	2
17		Copepodite stage larva of *Oithona*		1254	2956	12650	8400	25260	4
18		Copepodite stage larva of *Oncaea*				138		138	1
19		Copepodite stage larva of *Corycaeus*				275	240	515	2
20		Copepodite stage larva of *Euterpina*		93	344		1360	1797	3
21		Copepodite stage larva of Harpacticoida		46				46	1
22		Nauplius stage larva of Copepoda		5943	1100	11000	1200	19243	4
23	APPENDICULARIA	*Appendicularia*	*sicula*	46	138	413	2240	2837	4
24		*Oikopleura*	*dioica*	46		413	160	619	3
25		*O.*	sp.			688	400	1088	2
26	LARVA	Polychaeta	larva	139	344	963	240	1686	4
27		Gastropoda	larva	139	1031	825	1600	3595	4
28		Egg capsule of Littorinidae				138		138	1
29		D-shaped larva of Bivalvia				275		275	1
30		Umbo stage larva of Bivalvia		232	1656	825	2880	5793	4
31		Nauplius stage larva of Cirripedia		232		1375	80	1687	3
32		Zoëa stage larva of Macrura					80	80	1
33		Pluteus stage larva of Echinodermata		46			480	526	2
	Total number of individuals			9653	9419	35344	24320	78736	
	Total number of species			19	13	22	24		78

Remarks····Unit:individuals/m³

Table 3.10.17(1) Tabulation at Each Class of Zooplankton of Net Method in the Second Field Survey

Date:2nd October 1988 (Low tide period)

Kind \ Site	1-A	9	13	15	Total
Layer(m)	0-7	0-4	0-5	0-13	
Settling volume(mℓ/m³)	1.1	1.3	2.5	2.0	
CILIATA	142 0.9	188 2.3	900 5.9		1230 1.8
HYDROZOA			150 1.0		150 0.2
COPEPODA	14286 86.6	5198 62.8	6900 45.5	20080 71.5	46464 68.3
APPENDICULARIA		75 0.9	4800 31.7	1520 5.4	6395 9.4
LARVA	2070 12.5	2813 34.0	2400 15.8	6480 23.1	13763 20.2

Remarks··· Unit:individuals/m³ lower column····%

Table 3.10.17(2) Tabulation at Each Class of Zooplankton of Net Method in the Second Field Survey

Date:2nd October 1988 (High tide period)

Kind \ Site	1-A	9	13	15	Total
Layer(m)	0-7	0-4	0-5	0-13	
Settling volume(mℓ/m³)	1.1	1.3	2.5	2.0	
CILIATA	93	344		160	597
	1.0	3.7		0.7	0.8
HYDROZOA		69		80	149
		0.7		0.3	0.2
COPEPODA	8680	5637	29429	15920	59666
	89.9	59.8	83.3	65.5	75.8
APPENDICULARIA	92	138	1514	2800	4544
	1.0	1.5	4.3	11.5	5.8
LARVA	788	3231	4401	5360	13780
	8.2	34.3	12.5	22.0	17.5

Remarks····Unit:individuals/m³ lower column····%

Table 3.10.18(1) Occurrence Phytoplankton of Sampling Water Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

No.	Kind	Site		1-A		2	9		13		15		Total	Occured points
		Layer(m)		0.3	6.5	0.3	0.3	12	0.3	3	0.3	14		
		Settling volume (ml/m³)		30.0	35.0	25.0	25.0	20.0	20.0	30.0	15.0	10.0		
1	BACILLARIOPHYCEAE	*Skeletonema*	*costatum*				4032	768	28656	12480	144	336	46416	6
2		*Leptocylindrus*	*danicus*							240			240	1
3		*Rhizosolenia*	*fragillima*		96			192					288	2
4		*Chaetoceros*	sp.	4560	23328	2496							30384	3
5		*Cerataulina*	*pelagica*					192					192	1
6		*Climacodium*	*frauenfeldianum*									96	96	1
7		*Pleurosigma*	sp.						72				72	1
8		*Nitzschia*	*closterium*		288		480	1632	432	1080	72	192	4176	7
9		*N.*	*longissima*		96								96	1
10		*N.*	sp.				96						96	1
11	DINOPHYCEAE	*Prorocentrum*	*balticum*			96							96	1
12		*P.*	*compressum*								72		72	1
13		*P.*	*micans*	48				96	72				216	3
14		*P.*	*triestinum*	480	384	4224	96	192		360			5736	6
15		Gymnodiniales		192		96							288	2
16		*Gonyaulax*	sp.			96		96					192	2
17		*Scrippsiella*	sp.	624	192	96	192	192	72	240			1608	7
18		*Protoperidinium*	*pellucidum*				96						96	1
19		*Ceratium*	*furca*						72				72	1
20		*C.*	*fusus*				96					48	144	2
21		Peridiniales		768	192	192		96	144	240	72		1704	7
22	CRYPTOPHYCEAE	Cryptophyceae		288			864	1152	648	4680	864		8496	6
23	HAPTOPHYCEAE	Haptophyceae		1152	1728		20160	42624	20088	11880	85104	147744	330480	8
24	PRASINOPHYCEAE	Prasinophyceae		864	576			576	648	1800			4464	5
25	EUGLENOPHYCEAE	Euglenophyceae		144				96	72	120	72		504	5
	Total number of cells			9120	26880	7296	26112	47904	50976	33120	86400	148416	436224	
	Total number of species			10	9	7	9	13	11	10	7	5		81

Remarks····Unit:cells/ℓ

Table 3.10.18(2) Occurrence Phytoplankton of Sampling Water Method in the Third Field Survey

Date:31st January 1989 (High tide period)

No.	Kind	Site		1-A		2	9		13		15		Occured Total points
		Layer (m)		0.3	6	0.3	0.3	12	0.3	4	0.3	13	
		Settling volume (mℓ/m³)		30.0	30.0	15.0	15.0	15.0	20.0	15.0	20.0	25.0	
1	BACILLARIOPHYCEAE	*Skeletonema*	*costatum*				1332	144	8160	10008			19644 4
2		*Leptocylindrus*	*danicus*					396		288			684 2
3		*Rhizosolenia*	*fragillima*		64			288					352 2
4		*R.*	*setigera*				36	36					72 2
5		*Chaetoceros*	*coarctatum*									384	384 1
6		*C.*	*decipiens*				108						108 1
7		*C.*	sp.	896	1136	192	144						2368 4
8		*Climacodium*	*biconcavum*								144	96	240 2
9		*Thalassionema*	*nitzschioides*					72			288	480	840 3
10		*Licmophora*	sp.					36		72			108 2
11		*Nitzschia*	*closterium*	64			360	504	864	792	48		2632 6
12		*N.*	*longissima*	32	32								64 2
13	DINOPHYCEAE	*Prorocentrum*	*balticum*			96						96	192 2
14		*P.*	*micans*	32		384	36	36	384				872 5
15		*P.*	*triestinum*	96		2880	72			72			3120 4
16		Gymnodiniales				288			288	72	48		696 4
17		*Scrippsiella*	sp.	180	64	288	252	144	384	288	48		1628 8
18		*Protoperidinium*	spp.			192		36	96				324 3
19		*Ceratium*	*furca*				36				48		84 2
20		*C.*	*fusus*									96	96 1
21		Peridiniales		128	16	96		144	192	360	96		1032 7
22	CRYPTOPHYCEAE	Cryptophyceae		576			864	864	864	648	864	288	4968 7
23	HAPTOPHYCEAE	Haptophyceae		576	864		11448	11016	14688	4968	25056	36000	104616 8
24	PRASINOPHYCEAE	Prasinophyceae		1440	576		432	1080	2016	864			6408 6
25	EUGLENOPHYCEAE	Euglenophyceae		64	32		144	72					312 4
	Total number of cells			4064	2784	4416	15264	14868	27936	18432	26640	37440	151844
	Total number of species			11	8	8	13	15	10	11	9	7	32

Remarks····Unit:cells/ℓ

Table 3.10.19(1) Tabulation at Each Class of Phytoplankton of Sampling Water Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	12	0.3	3	0.3	14	
Settling volume(ml/m³)	30.0	35.0	25.0	25.0	20.0	20.0	30.0	15.0	10.0	
BACILLARIOPHYCEAE	4560	23808	2496	4608	2784	29160	13800	216	624	82056
	50.0	88.6	34.2	17.6	5.8	57.2	41.7	0.3	0.4	18.8
DINOPHYCEAE	2112	768	4800	480	672	360	840	144	48	10224
	23.2	2.9	65.8	1.8	1.4	0.7	2.5	0.2	0.0	2.3
CRYPTOPHYCEAE	288			864	1152	648	4680	864		8496
	3.2			3.3	2.4	1.3	14.1	1.0		1.9
HAPTOPHYCEAE	1152	1728		20160	42624	20088	11880	85104	147744	330480
	12.6	6.4		77.2	89.0	39.4	35.9	98.5	99.5	75.8
PRASINOPHYCEAE	864	576			576	648	1800			4464
	9.5	2.1			1.2	1.3	5.4			1.0
EUGLENOPHYCEAE	144				96	72	120	72		504
	1.6				0.2	0.1	0.4	0.1		0.1

Remarks····Unit:cells/ℓ lower column····%

Table 3.10.19(2) Tabulation at Each Class of Phytoplankton of Sampling Water Method in the Third Field Survey

Date:31st January 1989 (High tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	6	0.3	0.3	12	0.3	4	0.3	13	
Settling volume(mℓ/m³)	30.0	30.0	15.0	15.0	15.0	20.0	15.0	20.0	25.0	
BACILLARIOPHYCEAE	992	1232	192	1980	1476	9024	11160	480	960	27496
	24.4	44.3	4.3	13.0	9.9	32.3	60.5	1.8	2.6	18.1
DINOPHYCEAE	416	80	4224	396	360	1344	792	240	192	8044
	10.2	2.9	95.7	2.6	2.4	4.8	4.3	0.9	0.5	5.3
CRYPTOPHYCEAE	576			864	864	864	648	864	288	4968
	14.2			5.7	5.8	3.1	3.5	3.2	0.8	3.3
HAPTOPHYCEAE	576	864		11448	11016	14688	4968	25056	36000	104616
	14.2	31.0		75.0	74.1	52.6	27.0	94.1	96.2	68.9
PRASINOPHYCEAE	1440	576		432	1080	2016	864			6408
	35.4	20.7		2.8	7.3	7.2	4.7			4.2
EUGLENOPHYCEAE	64	32		144	72					312
	1.6	1.1		0.9	0.5					0.2

Remarks····Unit:cells/ℓ lower column····%

Table 3.10.20(1) Occurrence Zooplankton of Sampling Water Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

No.	Kind	Site		1-A		2	9		13		15		Occured Total points	
		Layer(m)		0.3	7	0.3	0.3	12	0.3	3	0.3	14		
		Settling volume (ml/m³)		30.0	35.0	25.0	25.0	20.0	20.0	30.0	15.0	10.0		
1	CILIATA	*Didinium*	sp.	80	172		18	2					272	4
2		*Tiarina*	*fusus*		4		3						7	2
3		Holotrichida										6	6	1
4		Oligotrichida		44	148	1	81	20	87	88	66	60	595	9
5		*Tintinnidium*	*mucicola*	8			3						11	2
6		*Tintinnopsis*	spp.	16	40	11	12	1	3	16	6	6	111	9
7		*Stenosemella*	*nivalis*				9						9	1
8		*S.*	sp.						6	8			14	2
9		*Codonellopsis*	*morchella*					1			12	9	22	3
10		*C.*	*ostenfeldi*								3		3	1
11		*Amphorella*	*quadrilineata*				6	5	12		12	18	53	5
12		*A.*	sp.						9			3	12	2
13		*Undella*	*biorbiculata*					1					1	1
14		*U.*	sp.					1					1	1
15		*Eutintinnus*	*fracknoi*				3						3	1
16		*E.*	*lusus-undae*								3		3	1
17		*E.*	sp.					1					1	1
18		*Salpingella*	sp.						6	4	9	18	37	4
19		Tintinnida									3		3	1
20	FORAMINIFERA	Foraminifera				2	3			8			13	3
21	ROTATORIA	*Synchaeta*	sp.	12	44	1	15		8	4	9	24	115	8
22	NEMATODA	Nematoda								12			12	1
23	COPEPODA	*Paracalanus*	*crassirostris*									2	2	1
24		*P.*	sp.					1					1	1
25		*Acartia*	*erythraea*					1					1	1
26		*Oithona*	*davisae*			1	3	4					8	3
27		*O.*	*nana*					1			1		2	2
28		*O.*	*simplex*				1		1			2	4	3
29		*O.*	sp.									1	1	1
30		*Euterpina*	*acutifrons*									1	1	1
31		Harpacticoida					1						1	1
32		Copepodite stage larva of *Paracalanus*				1	2	2			1	3	9	5
33		Copepodite stage larva of *Temora*										3	3	1
34		Copepodite stage larva of Calanoida										1	1	1
35		Copepodite stage larva of *Oithona*		1	1	1		11	6	12	1	6	39	8
36		Copepodite stage larva of *Oncaea*						1					1	1
37		Copepodite stage larva of *Saphirella*								1			1	1
38		Copepodite stage larva of *Euterpina*						2					2	1
39		Naupliua stage larva of Copepoda		16	8	7	38	32	9	32	30	39	212	9
40	PTEROPODA	*Creseis*	*acicula*								1		1	1
41	APPENDICULARIA	*Appendicularia*	*sicula*									1	1	1
42		*Oikopleura*	*dioica*						3		3	3	9	3
43		*O.*	spp.				3	2	1		15	1	22	5
44	LARVA	Trochophora larva			4			1					5	2
45		Umbo stage larva of Bivalvia				1						1	2	2
46		Naupliua stage larva of Cirripedia					1	2					3	2
	Total number of individuals			177	421	26	203	92	148	185	175	208	1636	
	Total number of species			7	8	9	17	20	12	10	16	21		120

Remarks··· Unit:individuals/ℓ

Table 3.10.20(2) Occurrence Zooplankton of Sampling Water Method in the Third Field Survey

Date:31st January 1989 (High tide period)

No.	Kind	Site		1-A		2	9		13		15		Occured Total points	
		Layer(m)		0.3	6	0.3	0.3	12	0.3	4	0.3	13		
		Settling volume (ml/m³)		30.0	30.0	15.0	15.0	15.0	20.0	15.0	20.0	25.0		
1	CILIATA	*Didinium*	sp.	170	32		1	2	3	6	3	6	223	8
2		*Tiarina*	*fusus*	2									2	1
3		Holotrichida										3	3	1
4		Suctorida						8					8	1
5		Oligotrichida		77	28	4	32	40	70	48	69	48	416	9
6		*Tintinnidium*	*mucicola*								3		3	1
7		*Tintinnopsis*	spp.	38	72	484		2	31		18	12	857	7
8		*Stenosemella*	*nivalis*	12							3		15	2
9		*S.*	sp.				6	16	10	3			35	4
10		*Codonellopsis*	*morchella*									3	3	1
11		*Favella*	*azorica*			4							4	1
12		*Amphorella*	*quadrilineata*				7	2	10	6	27	18	70	6
13		*A.*	sp.							3			3	1
14		*Undella*	*hyrbiculata*					1					1	1
15		*Eutintinnus*	*fracknoi*				4						4	1
16		*E.*	*lusus-undae*							3			3	1
17		*Salpingella*	sp.						3	3	18	3	27	4
18		Tintinnida								3			3	1
19	FORAMINIFERA	Foraminifera						1				3	4	2
20	ROTATORIA	*Synchaeta*	sp.	10		8	1	7	17	6	6	6	61	8
21	NEMATODA	Nematoda				4							4	1
22	SAGITTIDEA	*Sagitta* larva									1		1	1
23	COPEPODA	*Oithona*	*davisae*				1	1				1	3	3
24		*O.*	*simplex*									1	1	1
25		*O.*	sp.								1		1	1
26		*Euterpina*	*acutifrons*							1	1	1	3	3
27		Harpacticoida				1							1	1
28		Copepodite stage larva of *Paracalanus*			4		1	1			1	2	9	5
29		Copepodite stage larva of *Pseudodiaptomus*				1							1	1
30		Copepodite stage larva of *Candacia*										1	1	1
31		Copepodite stage larva of *Acartia*								1			1	1
32		Copepodite stage larva of *Oithona*		2	1	12	2	2		6	6	9	40	8
33		Copepodite stage larva of *Oncaea*						1					1	1
34		Copepodite stage larva of *Sapphirella*								1		1	2	2
35		Copepodite stage larva of *Euterpina*								1	1	3	5	3
36		Nauplius stage larva of Copepoda		7	4	16	8	20	24	21	45	51	196	9
37	APPENDICULARIA	*Oikopleura*	*dioica*						1		6	2	9	3
38		*O.*	spp.	2		4	1				18	15	40	5
39	LARVA	Trochophora larva							10	3			13	2
40		Polychaete larva										3	3	1
41		Gastropoda larva		1			1	1				1	4	4
42		Umbo stage larva					1					1	2	2
43		Nauplius stage larva of Cirripedia							2				2	1
	Total number of individuals			321	141	538	66	105	181	115	227	194	1888	
	Total number of species			10	6	10	13	15	11	16	17	23		121

Remarks····Unit:individuals/ℓ

Table 3.10.21(1) Tabulation at Each Class of Zooplankton of Sampling Water Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	7	0.3	0.3	12	0.3	3	0.3	14	
Settling volume(mℓ/m³)	30.0	35.0	25.0	25.0	20.0	20.0	30.0	15.0	10.0	
CILIATA	148	364	12	135	32	123	116	114	120	1164
	83.6	86.5	46.2	66.5	34.8	82.6	62.7	65.1	57.7	71.1
FORAMINIFERA			2	3			8			13
			7.7	1.5			4.3			0.8
ROTATORIA	12	44	1	15		6	4	9	24	115
	6.8	10.5	3.8	7.4		4.0	2.2	5.1	11.5	7.0
NEMATODA							12			12
							6.5			0.7
COPEPODA	17	9	10	46	55	16	45	33	58	289
	9.6	2.1	38.5	22.7	59.8	10.7	24.3	18.9	27.9	17.7
PTEROPODA								1		1
								0.6		0.1
APPENDICULARIA				3	2	4		18	5	32
				1.5	2.2	2.7		10.3	2.4	2.0
LARVA		4	1	1	3				1	10
		1.0	3.8	0.5	3.3				0.5	0.6

Remarks····Unit:individuals/ ℓ lower column····%

Table 3.10.21(2) Tabulation at Each Class of Zooplankton of Sampling Water Method in the Third Field Survey

Date:31st January 1989 (High tide period)

Kind \ Site	1-A		2	9		13		15		Total
Layer(m)	0.3	6	0.3	0.3	12	0.3	4	0.3	13	
Settling volume(mℓ/m³)	30.0	30.0	15.0	15.0	15.0	20.0	15.0	20.0	25.0	
CILIATA	299 93.1	132 93.6	492 91.4	50 75.8	71 67.6	127 70.2	75 85.2	141 62.1	93 47.9	1480 78.4
FORAMINIFERA					1 1.0				3 1.5	4 0.2
ROTATORIA	10 3.1		8 1.5	1 1.5	7 6.7	17 9.4	8 5.2	6 2.6	6 3.1	61 3.2
NEMATODA			4 0.7							4 0.2
SAGITTIDEA								1 0.4		1 0.1
COPEPODA	9 2.8	9 6.4	30 5.6	12 18.2	25 23.8	24 13.3	31 27.0	55 24.2	70 36.1	265 14.0
APPENDICULARIA	2 0.8		4 0.7	1 1.5		1 0.6		24 10.6	17 8.8	49 2.6
LARVA	1 0.3			2 3.0	1 1.0	12 6.6	3 2.6		5 2.6	24 1.3

Remarks····Unit:individuals/ ℓ lower column····%

Table 3.10.22(1) Occurrence Zooplankton of Net Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

No.	Kind	Site		1-A	9	13	15	Total	Occured points
		Layer (m)		0-6.5	0-12	0-3	0-14		
		Settling volume (ml/m³)		0.8	1.7	5.0	1.1		
1	CILIATA	*Tintinnidium*	*mucicola*	277	83			360	2
2		Oligotrichida		69				69	1
3		*Tintinnopsis*	spp.	46				46	1
4	ROTATORIA	Rotatoria			42			42	1
5	CLADOCERA	*Penilia*	*avirostris*				71	71	1
6	COPEPODA	*Paracalanus*	*crassirostris*				36	36	1
7		*P.*	*parvus*		167			167	1
8		*Acrocalanus*	sp.				107	107	1
9		*Temora*	*turbinata*				250	250	1
10		*Labidocera*	sp.				36	36	1
11		*Acartia*	*hudsonica*				36	36	1
12		Oithona	*brevicornis*				36	36	1
13		*O.*	*davisae*	46	500	125	429	1100	4
14		*O.*	*nana*		83		71	154	2
15		*O.*	*rigida*			42	71	113	2
16		*O.*	*simplex*		125	83	393	601	3
17		*O.*	spp.			83	536	619	2
18		*Corycaeus*	*affinis*				286	286	1
19		*C.*	sp.			42	71	113	2
20		*Euterpina*	*acutifrons*		83		286	369	2
21		Harpacticoida			42			42	1
22		Copepodite stage larva of Paracalanidae		46	875	333	1107	2361	4
23		Copepodite stage larva of *Centoropages*		23	42		71	136	3
24		Copepodite stage larva of *Temora*				42	36	78	2
25		Copepodite stage larva of *Acartia*			83	42		125	2
26		Copepodite stage larva of Calanoida			42		71	113	2
27		Copepodite stage larva of *Oithona*		1085	3833	2292	2214	9424	4
28		Copepodite stage larva of *Oncaea*		23			36	59	2
29		Copepodite stage larva of *Corycaeus*			42		143	185	2
30		Copepodite stage larva of *Euterpina*		46	417	83	1571	2117	4
31		Copepodite stage larva of Harpacticoida		69	292	83		444	3
32		Nauplius stage larva of Copepoda		2562	2125	958	750	6395	4
33	APPENDICULARIA	*Oikopleura*	*dioica*			83		83	1
34		*O.*	spp.			125	357	482	2
35	LARVA	Pilidium larva of Enopla					36	36	1
36		Polychaeta larva		46			36	82	2
37		Gastropoda larva		23	42	42		107	3
38		D-shaped larva of Bivalvia			83	292	36	411	3
39		Umbo stage larva of Bivalvia			42		429	471	2
40		Nauplius stage larva of Cirripedia		69	500	333	393	1295	4
	Total number of individuals			4430	9543	5083	10001	29057	
	Total number of species			14	21	17	30		82

Remarks····Unit:individuals/m³

Table 3.10.22(2) Occurrence Zooplankton of Net Method in the Third Field Survey

Date:31st January 1989 (High tide period)

No.	Kind	Site / Layer(m) / Settling volume (ml/m³)		1-A 0-6 0.8	9 0-12 0.8	13 0-4 1.9	15 0-13 1.9	Total	Occured points
1	CILIATA	*Tintinnidium*	*mucicola*	354				354	1
2	HYDROZOA	Hydroida				25		25	1
3	ROTATORIA	Rotatoria		42				42	1
4	COPEPODA	*Paracalanus*	*parvus*		137	50	404	591	3
5		*Acrocalanus*	sp.				115	115	1
6		*Acartia*	*hudsonica*		92			92	1
7		*Oithona*	*brevicornis*				58	58	1
8		*O.*	*davisae*	42	229	125	635	1031	4
9		*O.*	*nana*				173	173	1
10		*O.*	*rigida*			75	577	652	2
11		*O.*	*simplex*		137	50	2019	2206	3
12		*O.*	spp.		92		288	380	2
13		*Corycaeus*	*affinis*			25	173	198	2
14		*Euterpina*	*acutifrons*			125	1327	1452	2
15		Copepodite stage larva of Paracalanidae		62	687	125	3115	3989	4
16		Copepodite stage larva of *Centoropages*		21				21	1
17		Copepodite stage larva of *Temora*					288	288	1
18		Copepodite stage larva of *Acartia*			321	75	58	454	3
19		Copepodite stage larva of *Oithona*		937	2292	1625	12462	17316	4
20		Copepodite stage larva of *Corycaeus*					58	58	1
21		Copepodite stage larva of *Euterpina*		21	137	275	2308	2741	4
22		Copepodite stage larva of Harpacticoida		83	92	25	115	315	4
23		Nauplius stage larva of Copepoda		2125	1512	1400	1731	6768	4
24	APPENDICULARIA	*Oikopleura*	*dioica*			50	58	108	2
25		*O.*	*longicauda*				58	58	1
26		*O.*	spp.	21		125	115	261	3
27	LARVA	Trochophora larva					58	58	1
28		Polychaeta larva		83			115	198	2
29		Gastropoda larva		21		50	173	244	3
30		D-shaped larva of Bivalvia		21	228	50	346	646	4
31		Umbo stage larva of Bivalvia					577	577	1
32		Nauplius stage larva of Cirripedia		42	321	300	58	721	4
	Total number of individuals			3875	6278	4575	27462	42190	
	Total number of species			14	13	18	27		72

Remarks··· Unit:individuals/m³

Table 3.10.23(1) Tabulation at Each Class of Zooplankton of Net Method in the Third Field Survey

Date:6th February 1989 (Low tide period)

Kind \ Site	1-A	9	13	15	Total
Layer(m)	0-6.5	0-12	0-3	0-14	
Settling volume(mℓ/m³)	0.8	1.7	5.0	1.1	
CILIATA	392 8.8	83 0.9			475 1.6
ROTATORIA		42 0.4			42 0.1
CLADOCERA				71 0.7	71 0.2
COPEPODA	3900 88.0	8751 91.7	4208 82.8	8643 86.4	25502 87.8
APPENDICULARIA			208 4.1	357 3.6	565 1.9
LARVA	138 3.1	667 7.0	667 13.1	930 9.3	2402 8.3

Remarks····Unit:individuals/ m³ lower column····%

Table 3.10.23(2) Tabulation at Each Class of Zooplankton of Net Method in the Third Field Survey

Date:31st January 1989 (High tide period)

Kind \ Site	1-A	9	13	15	Total
Layer(m)	0-6	0-12	0-4	0-13	
Settling volume(mℓ/m³)	0.8	0.8	1.9	1.9	
CILIATA	354 9.1				354 0.8
HYDROZOA			25 0.5		25 0.1
ROTATORIA	42 1.1				42 0.1
COPEPODA	3291 84.9	5728 91.2	3975 86.9	25904 94.3	38898 92.2
APPENDICULARIA	21 0.5		175 3.8	231 0.8	427 1.0
LARVA	167 4.3	550 8.8	400 8.7	1327 4.8	2444 5.8

Remarks····Unit:individuals/ m³ lower column····%

Table 3.10.24(1) Occurrence Benthos in the Second Field Survey

Date:16th～18th October 1988

No.	Kind		Site / Item			1-A		1-B		1-C		4		5-A		5-B		5-C		7		8		9-A	
						I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
1	COELENTERATA	HYDROZOA	Hydroida	Sertularidae												+	0.60			+	0.23				
2		ANTHOZOA	Actiniaria																						
3	NEMERTINEA																								
4	SIPUNCULOIDEA	SIPUNCULOIDEA	Sipuncula	Sipunculidae				3	0.10			13	0.65	6	0.36	4	0.18	3	0.04	9	0.10	1	0.00		
5	ANNELIDA	POLYCHAETA	Errantia	Sigalionidae	*Sthenelais* sp.											2	0.02	2	0.11			5	0.08	1	0.04
6					*Sigalion* sp.									2	0.01										
7				Phyllodocidae																					
8				Hesionidae																					
9				Pilargidae	*Sigambra* sp.													1	0.00						
10				Syllidae	Syllinae													1	0.00						
11				Nereidae												1	0.00					1	0.00		
12				Nephtyidae	*Nephtys* sp.	1	0.00	1	0.00			11	0.03	13	0.04			12	0.02	1	0.01	13	0.04		
13				Glyceridae	*Glycera* sp.			2	0.00			14	0.06	1	0.00					1	0.01	5	0.02		
14				Goniadidae										1	0.14			1	0.06	1	0.03				
15				Onuphidae	*Onuphis* sp.					1	0.00			1	0.01							2	0.00		
16				Eunicidae	*Eunice* spp.																			1	0.01
17					*Marphysa* sp.									1	0.01	5	0.09			4	0.03				
18				Lumbrineridae	*Lumbrineris* sp.																	1	0.01		
19				Dorvilleidae	*Dorvillea* sp.																	1	0.01		
20			Sedentaria	Orbiniidae														3	0.00	7	0.03	1	0.00		
21				Disomidae	*Poecilochaetus* sp.							10	0.03	2	0.01	4	0.02					7	0.03		
22				Chaetopteridae																		1	0.01		
23				Cirratulidae	*Cirriformia* sp. some species							2	0.08			1	0.01								
24																				1	0.00	6	0.04		
25				Flabelligeridae								5	0.03	5	0.02	3	0.05	1	0.02			2	0.01	2	0.08
26				Ophelliidae	*Ophelina* sp. some species	54	0.69	3	0.01	22	0.23							1	0.00						
27						3	0.00							3	0.00	1	0.00	29	0.09						
28				Capitellidae								10	0.09	1	0.00							15	0.31	1	0.00
29				Maldanidae		1	0.02	8	0.29	1	0.07	2	0.05	2	0.09			5	0.07	1	0.01	10	0.22		
30				Owenilidae																					
31				Ampharetidae														4	0.02						
32				Terebellidae	*Terebellides* sp. some species	16	0.30	11	0.10	4	0.14	1	0.47	2	0.09			1	0.02			3	0.12		
33				Sabellidae	*Chone* sp. some species											3	0.08			1	0.00				
34																1	0.00			2	0.01	1	0.00		
35				Serpulidae	*Hydroides* sp.									2	0.00	3	0.01			14	0.03			1	0.00
36	TENTACULATA	BRYOZOA	Ctenostomata	Vesicularliidae																4	0.01				
37				Buskiidae																					
38	MOLLUSCA	POLYPLACOPHORA	Ischnochitonida	Ischnochitonidae																+	0.00				
39		GASTROPODA	Mesogastropoda	Cerithiidae								45	15.86	3	2.38	1	0.00	23	3.06			17	2.86	223	12.45
40				Calyptraeidae																					
41				Naticidae																		1	0.06	1	0.05
42			Neogastropoda	Muricidae																				6	1.31
43				Pyramidae				2	0.30			2	0.12											1	0.28
44				Nassariidae										1	0.21	2	0.20	1	0.23			4	1.21		
45				Olividae																					
46				Mitridae																					
47				Marginellidae																					
48			Heterogastropoda	Epitoniidae																1	0.01				
49			Cephalaspidea	Actaeonidae																1	0.02				
50				Bullidae																		1	0.05		
51				Atyidae								1	5.75												
52				Philinidae																				1	0.12
53			Nudibranchia	Dorididae												1	0.02								
54		SCAPHOPODA																		1	0.02	1	0.01		
55		BIVALVIA	Eutaxodonta	Arcidae																					
56			Pteriomorphia	Mytilidae	*Septifer* type	1	0.07	5	0.18											8	0.13				
57					some species															5	0.09				
58				Isognomonidae																				4	0.41
59				Pteriidae	*Pinctada* sp.											6	83.72								
60																									

Remarks····Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g +:uncountable

Table 3.10.24(2) Occurrence Benthos in the Second Field Survey

Date:16th～18th October 1988

No.	Kind		Site / Item			8-B		12		13		14		15		16		18-A		18-B		20-A		20-B		Total	
						I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
1	COELENTERATA	HYDROZOA	Hydroida	Sertularidae				+	0.03							+	0.00	+	0.18			+	2.50	+	0.00	+	3.02
2		ANTHOZOA	Actiniaria							1	0.04													1	0.05	2	0.09
3	NEMERTINEA											1	0.03													2	0.03
4	SIPUNCULOIDEA	SIPUNCULOIDEA	Sipunculida	Sipunculidae								1	0.00					1	0.03							2	0.03
5	ANNELIDA	POLYCHAETA	Errantia	Sigalionidae	*Sthenelais* sp.			2	0.03							1	0.01			1	0.01	4	0.06	16	0.35	62	1.82
6					*Sigalion* sp.																			1	0.00	13	0.24
7				Phyllodocidae																						2	0.01
8				Hesionidae																		1	0.00			1	0.00
9				Pilargidae	*Sigambra* sp.																					1	0.00
10				Syllidae	Syllinae																					1	0.00
11				Nereidae						17	0.05													2	0.01	4	0.01
12				Nephtyidae	*Nephtys* sp.					3	0.01	2	0.00													88	0.18
13				Glyceridae	*Glycera* sp.							2	0.03	1	0.00			31	0.18					8	0.02	86	0.30
14				Goniadidae										2	0.01			1	0.09	7	0.94					16	0.38
15				Onuphidae	*Onuphis* sp.									2	0.01			8	0.05			1	0.00	5	0.02	21	0.09
16				Sphaerodoridae																						3	0.02
17				Syllidae	*Exmera* spp.	3	0.01					1	0.00	1	0.00									5	0.06	20	0.20
18					*Morpyra* sp.							1	0.00			1	0.02									3	0.03
19				Lumbrineridae	*Lumbrineris* sp.																	1	0.00	1	0.00	3	0.01
20				Dorvilleidae	*Dorvillea* sp.													1	0.00							12	0.03
21			Sedentaria	Orbiniidae						6	0.03	2	0.00					11	0.04			6	0.03	14	0.05	82	0.24
22				Disomidae	*Paraonachaetus* sp.													2	0.00							3	0.01
23				Chaetopteridae								3	0.04													3	0.04
24				Cirratulidae	*Cirriformia* sp. some species																					3	0.10
25												8	0.14													15	0.18
26				Flabelligeridae								1	0.01					3	0.04			9	0.14	6	0.04	37	0.44
27				Opheliidae	*Ophelina* sp. some species	1	0.01	2	0.01	22	0.07			2	0.03			2	0.03			16	0.15	16	0.15	93	1.14
28				Capitellidae						3	0.01	1	0.00	1	0.00			56	0.10			2	0.00	4	0.01	87	0.21
29				Maldanidae																		12	0.06	19	0.20	120	0.75
30				Owenidae				1	0.01															1	0.00	31	0.59
31				Ampharetidae																						1	0.01
32				Terebellidae	*Terebellides* sp. some species																			2	0.47	6	0.92
33																								1	0.40	40	1.71
34				Sabellidae	*Chone* sp. some species																			4	0.02	5	0.06
35																		1	0.00					4	0.01	8	0.03
36				Serpulidae	*Hydroides* sp.																			2	0.01	25	0.05
37	TENTACULATA	BRYOZOA	Cheilostomata	Vesiculariidae		+	0.00																			6	0.02
38				Bicellidae												+	0.00									+	0.00
39	MOLLUSCA	POLYPLACOPHORA	Ischnochitonida	Ischnochitonidae																						+	0.00
40		GASTROPODA	Mesogastropoda	Cerithiidae						258	17.81	1	0.21					191	3.93			7	0.21			1	0.00
41				Calyptraeidae										2	0.03											676	58.76
42				Naticidae																						2	0.03
43			Neogastropoda	Muricidae								1	0.08					4	0.28					2	0.18	8	0.65
44				Pyrenidae						1	0.10	3	0.42											1	0.33	1	0.33
45				Nassariidae						1	0.38	2	0.80													14	2.25
46				Olividae										1	0.02											12	3.11
47				Mitridae																						1	0.02
48				Marginellidae								1	0.12											2	0.11	5	0.23
49			Heterogastropoda	Epitoniidae																						1	0.01
50			Cephalaspidea	Actaeonidae														1	0.00							2	0.02
51				Bullidae														3	0.15							4	0.15
52				Atyidae														1	0.63							2	8.28
53				Philinidae								1	0.00													2	0.12
54			Nudibranchia	Dorididae														1	0.34							1	0.34
55		SCAPHOPODA																								1	8.82
56		BIVALVIA	Cuneoidonta	Arcidae										2	0.02									2	0.09	4	0.13
57			Pteriomorphia	Mytilidae	*Septifer* spp. some species							2	0.07	3	0.20											3	0.20
58														1	0.02			1	0.02					4	0.09	28	8.58
59				Isognomonidae										6	0.23			3	0.08					2	0.38	20	1.17
60				Pteriidae	*Pinctada* sp.																			1	0.31	1	0.31
														2	0.13									3	2.82	13	67.67

Remarks····Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g +:uncountable

Table 3.10.24(3) Occurrence Benthos in the Second Field Survey

Date:16th～18th October 1988

No.	Kind		Site / Item			1-A		1-B		1-C		4		5-A		5-B		5-C		7		8		8-A	
						I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
81	MOLLUSCA	BIVALVIA	Pteriomorphia	Spondylidae																					
82				Anomiidae																					
83			Heterodonta	Cardiidae				4	0.04																
84				Kellyellidae																					
85				Ungulinidae				3	0.03			1	0.08									1	0.11		
86				Thyasiridae																					
87				Lucinidae	*Pillucina* sp.																	3	0.08		
88					some species																			2	0.08
89				Erycinidae								1	0.06												
90				Chamidae	*Chama* sp.	3	0.03																		
91				Cardiidae				1	0.59							4	0.14			2	0.10				
92				Veneridae	*Callista* type	1	0.14	2	0.25			2	10.01	1	0.02	1	0.86			5	0.52	1	0.03	1	0.88
93					*Marcenaria* type			3	0.08													4	0.72		
94					some species			4	0.18			1	2.03			1	0.18			2	4.81			1	0.13
95				Petricolidae												1	0.09			1	0.05			1	0.03
96				Mactridae																7	0.17				
97				Carlidae	*Cari* sp.											1	0.42			1	0.12				
98				Tellinidae	*Arcopagnida* type																	10	0.66	1	0.08
99					*Nitidotellina* type	5	0.18	4	0.66			1	0.82									11	0.53	7	0.24
100					*Tortellina* type																			8	0.33
101					some species					1	0.00														
102			Anomalodesmata	Pandoridae	*Pandora* sp.																				
103				Thyasiridae																					
104				Verticordidae																					
105	ANTHROPODA	CRUSTACEA	Myodocopa	Cypridinidae												1	1.32								
106			Thoracica	Balanidae	*Balanus* sp.																				
107			Nebaliacea	Nebaliidae	*Nebalia* sp.									1	0.00			11	0.02						
108			Mysidacea	Mysidae																					
109			Cumacea	Bodotriidae								1	0.00	2	0.00										
110			Tanaidacea	Apseudidae		30	0.02			13	0.01	1	0.00	3	0.01			3	0.00						
111			Isopoda	Antheridae		2	0.09																		
112				Cirolanidae												2	0.02								
113				Sphaeromatidae										1	0.00							1	0.00		
114			Amphipoda	Lysianassidae												2	0.00								
115				Ampeliscidae	*Ampelisca* spp.							1	0.00							11	0.00	5	0.00		
116				Nautoridae																					
117				Phoxocephalidae																					
118				Lilljeborgiidae		1	0.00	1	0.00			1	0.00							2	0.00				
119				Gammaridae		1	0.09	1	0.00																
120				Dexaminidae																					
121				Amphithoidae												1	0.00	16	0.03	1	0.00				
122				Corophiidae	*Grandidierella* sp.	144	0.11	8	0.01	12	0.01									1	0.00				
123				Aoridae										2	0.00										
124				Caprellidae										1	0.00										
125			Anomura	Callianassidae		2	0.05																		
126				Diogenidae								1	0.03			5	0.06							17	0.22
127			Brachyura	Leucosiidae																					
128				Cancridae																					
129				Xanthidae												1	0.23								
130	ECHINODERMATA	OPHIUROIDEA	Gnathophiurida	Amphiuridae				3	0.26					1	0.58			3	0.82					1	0.00
131		HOLOTHUROIDEA	Dendrochirota	Cucumariidae												1	0.03								
132	PROTOCHORDATA	UROCHORDA	Enterogona	Polycitoridae																					
133				Ascidiidae																					
134			Pleurogona	Styelidae												1	2.59								
135				Pyuridae																					
136				Molgulidae												8	16.76			15	15.03				
137		CEPHALOCHORDATA	Amphioxi	Branchiostomidae	*Branchiostoma* sp.																				
138	VERTEBRATA	OSTEICHTHYES	Perciformes	Gobiidae														1	1.12						
			Total(I W.W)			285	1.81	88	3.65	54	0.46	127	35.44	58	3.98	68	90.71	122	5.55	108	21.37	135	7.28	281	18.98
			Total number of species				15		19		7		22		24		30		29		30		30		29

Remarks····Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g -:uncountable

Table 3.10.24(4) Occurrence Benthos in the Second Field Survey

Date: 16th～18th October 1988

No.	Kind		Site / Item			9-B I	9-B W.W	12 I	12 W.W	13 I	13 W.W	14 I	14 W.W	15 I	15 W.W	16 I	16 W.W	18-A I	18-A W.W	19-B I	19-B W.W	20-A I	20-A W.W	20-B I	20-B W.W	Total I	Total W.W
81	MOLLUSCA	BIVALVIA	Pteriomorphia	Spondylidae										2	1.68											2	1.68
82				Anomiidae																				1	0.00	1	0.00
83			Heterodonta	Carditidae																						4	0.04
84				Kellyellidae								2	0.00	2	0.03											4	0.03
85				Unguliniae																						5	1.20
86				Thyasiridae								1	0.01					7	0.09							8	0.10
87				Lucinidae	*Pillucina* sp.					1	0.02	48	0.39	7	0.07			18	0.41							75	0.85
88					some species							7	0.11	13	0.62			2	0.05					1	0.02	26	0.75
89				Erycinidae						1	0.03							4	0.08					3	0.11	11	0.26
90				Chamidae	*Chama* sp.	1	0.06							5	0.10									13	5.24	25	14.66
91				Cardiidae								1	0.00	4	0.07			1	0.11					1	0.17	11	1.97
92				Veneridae	*Callista* type							5	0.20	3	0.08			12	0.50					7	3.09	62	16.47
93					*Marcenaria* type																			1	0.21	4	0.28
94					some species					3	10.86			1	0.04			2	0.08			2	3.28	8	4.54	25	25.71
95				Petricolidae														1	0.03							4	0.20
96				Mactridae		31	0.30					13	0.12	1	0.01	4	0.03	6	0.06	9	0.09			3	0.09	74	0.90
97				Gariidae	*Gari* sp.									2	0.13											4	0.87
98				Tellinidae	*Arcopagiinula* type							4	0.07					25	0.88					18	0.52	58	2.23
99					*Nitidotellina* type					12	1.41	7	0.10					46	2.04					4	0.09	89	5.06
100					*Tactidinea* type					1	0.12			16	0.59											25	1.04
101					some species																			1	0.01	2	0.01
102			Anomalodesmata	Panderidae	*Pandora* sp.													1	0.05					1	0.05	2	0.10
103				Thraciidae																				1	0.04	1	0.04
104				Verticordiidae																						1	1.32
105	ARTHROPODA	CRUSTACEA	Myodocopa	Cypridinidae														1	0.00							1	0.00
106			Thoracica	Balanidae	*Balanus* sp.																	1	0.05			1	0.05
107			Nebaliacea	Nebaliidae	*Nebalia* sp.					3	0.01															15	0.03
108			Mysidacea	Mysidae				1	0.00																	1	0.00
109			Cumacea	Bodotriidae														1	0.00					1	0.00	5	0.00
110			Tanaidacea	Apseudidae																				3	0.05	53	0.04
111			Isopoda	Anthuridae																						2	0.00
112				Cirolanidae																						2	0.02
113				Sphaeromatidae																						2	0.00
114			Amphipoda	Lysianassidae														1	0.00							4	0.00
115				Ampeliscidae	*Ampelisca* spp.																	1	0.00			17	0.00
116				Haustoriidae																2	0.00					2	0.00
117				Phoxocephalidae				3	0.00							1	0.00					8	0.01			10	0.01
118				Liljeborgiidae																						5	0.00
119				Gammaridae														1	0.00			2	0.00			5	0.00
120				Dexaminidae						1	0.00															1	0.00
121				Amphilochidae						7	0.02															25	0.05
122				Corophiidae	*Grandidierella* sp.																					188	0.13
123				Aoridae						4	0.00															8	0.00
124				Caprellidae																						1	0.00
125			Anomura	Callianassidae																						2	0.05
126				Diogenidae						2	0.07	3	0.03	1	0.02	2	0.01			3	0.02	3	0.03	2	0.10	33	0.59
127			Brachyura	Leucosiidae														2	0.18							2	0.18
128				Cancridae																				1	0.01	1	0.01
129				Xanthidae																				1	0.02	2	0.25
130	ECHINODERMATA	OPHIUROIDEA		Ophiuridae								5	0.11													11	1.59
131		HOLOTHUROIDEA	Dendrochirota	Cucumariidae																				1	0.08	2	0.08
132	PROTOCHORDATA	UROCHORDA	Enterogona	Polyclinidae										+	0.22											+	0.22
133				Ascidiidae																				1	1.78	1	1.78
134			Pleurogona	Styelidae																						1	2.58
135				Pyuridae										1	0.31											1	0.31
136				Molgulidae										2	0.12									1	0.33	24	32.16
137		CEPHALOCHORDATA	Amphioxi	Branchiostomidae	*Branchiostoma* sp.											4	0.08									5	0.10
138	VERTEBRATA	OSTEICHTHYES	Perciformes	Gobiidae		1	0.02																			1	1.12
			Total (I W.W)			37	0.42	3	0.08	345	30.62	128	2.89	88	7.59	18	0.17	388	10.89	22	0.18	58	4.36	194	23.25	2549	275.54
			Total number of species			9		8		18		29		24		9		37		5		16		59			

Remarks····Unit: I: individuals/0.15 m², W.W: wet weight(g)/0.15 m²
0.00: less than 0.01g +: uncountable

Table 3.10.25(1) Tabulation at Each Division of Benthos
in the Second Field Survey

Date:16th～18th October 1988

Phylum \ Site / Item	1-A		1-B		1-C		4		5-A		5-B		5-C		7		8		9-A	
	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
COELENTERATA											+	0.60			+	0.23				
											0.0	0.6			0.0	1.1				
NEMERTINEA																	1	0.00		
																	0.7	0.0		
SIPUNCULOIDEA			3	0.10			13	0.65	6	0.38	4	0.16	3	0.04	8	0.10	5	0.09	1	0.04
			4.4	2.7			18.2	1.8	10.3	8.0	5.9	0.2	2.5	0.7	8.3	0.5	3.7	1.2	0.4	0.2
ANNELIDA	75	1.01	25	0.40	28	0.44	55	0.85	36	0.42	24	0.28	61	0.41	37	0.17	69	0.89	5	0.09
	28.3	62.7	38.8	10.9	51.9	85.7	43.3	2.4	62.1	10.8	35.3	0.3	50.0	7.4	34.3	0.8	51.1	12.2	1.8	0.5
TENTACULATA															+	0.00				
															0.0	0.0				
MOLLUSCA	10	0.42	28	2.87	1	0.00	54	33.91	5	2.61	21	78.06	24	3.31	32	5.84	54	8.38	257	16.51
	3.8	26.1	41.2	78.4	1.9	0.0	42.5	95.7	8.8	65.8	30.9	78.6	18.7	58.8	29.6	27.3	40.0	86.5	91.5	97.9
ARTHROPODA	180	0.18	11	0.01	25	0.02	5	0.03	10	0.01	11	0.31	30	0.05	15	0.00	6	0.00	17	0.22
	87.9	11.2	16.2	0.3	46.3	4.3	3.9	0.1	17.2	0.3	16.2	0.3	24.6	0.8	13.9	0.0	4.4	0.0	6.0	1.3
ECHINODERMATA			1	0.28					1	0.58	1	0.03	3	0.62					1	0.00
			1.5	7.7					1.7	14.6	1.5	0.0	2.5	11.2					0.4	0.0
PROTOCHORDATA											7	18.29			15	15.03				
											10.3	18.8			13.9	79.3				
VERTEBRATA													1	1.12						
													0.8	20.2						

Remarks····Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g, +:uncountable
lower column····%

Table 3.10.25(2) Tabulation at Each Division of Benthos in the Second Field Survey

Date:16th~18th October 1988

Phylum \ Site		9-B		12		13		14		15		16		19-A		19-B		20-A		20-B		Total	
	Item	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
COELENTERATA				+	0.03	1	0.04					+	0.00	+	0.46			+	2.50	1	0.05	2	3.81
				0.0	37.5	0.3	0.1					0.0	0.0	0.0	4.2			0.0	39.3	0.5	0.2	0.1	1.4
NEMERTINEA								1	0.03													2	0.03
								0.8	1.0													0.1	0.0
SIPUNCULOIDEA								1	0.00					1	0.03					16	0.35	62	1.82
								0.8	0.0					0.3	0.3					8.2	1.5	2.4	0.7
ANNELIDA		4	0.02	5	0.05	51	0.17	21	0.22	9	0.05	5	0.05	119	0.53	8	0.05	36	0.27	86	1.07	759	7.42
		10.8	4.8	55.6	62.5	14.8	0.8	16.4	7.6	10.5	0.7	31.3	29.4	32.3	4.9	36.4	31.3	62.1	4.2	44.3	4.8	28.8	2.7
TENTACULATA		+	0.00									+	0.00									+	0.00
		0.0	0.0									0.0	0.0									0.0	0.0
MOLLUSCA		32	0.38			278	30.51	97	2.50	73	3.87	4	0.03	242	8.68	9	0.09	9	3.50	80	18.47	1308	217.88
		86.5	90.5			80.0	99.0	75.8	86.5	84.8	51.0	25.0	17.6	85.6	89.0	40.9	58.3	15.5	55.0	41.2	83.7	51.3	79.1
ARTHROPODA				4	0.00	17	0.10	3	0.03	1	0.02	3	0.01	6	0.16	5	0.02	13	0.09	8	0.13	370	1.41
				44.4	0.0	4.8	0.3	2.3	1.0	1.2	0.3	18.8	5.9	1.8	1.7	22.7	12.5	22.4	1.4	4.1	0.8	14.5	0.5
ECHINODERMATA								5	0.11											1	0.06	13	1.68
								3.8	3.8											0.5	0.3	0.5	0.6
PROTOCHORDATA		1	0.02							3	3.85	4	0.08							2	2.12	32	40.19
		2.7	4.8							3.5	48.1	25.0	47.1							1.0	9.1	1.3	14.5
VERTEBRATA																						1	1.12
																						0.0	0.4

Remarks····Unit:I:individuals/0.15 m², W.W:wet weight(g)/0.15 m²
0.00:less than 0.01g, +:uncountable
lower column····%

Table 3.10.26(1) Occurrence Benthos in the Third Field Survey

Date: 25th January～4th February 1989

No.	Kind		Item			1-A		1-B		1-C		4		5-A		5-B		5-C		7		8		9-A	
						I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
1	PORIFERA															+	18.60								
2	COELENTERATA	HYDROZOA	Hydroida	Sertularidae												+	0.00								
3		ANTHOZOA	Pennatularea																						
4			Actiniaria																						
5	PLATHELMINTHES	TURBELLARIA	Polycladia									1	5.36					1	0.82						
6	NEMERTINEA																			3	0.03				
7	SIPUNCULOIDEA	SIPUNCULOIDEA	Sipuncula	Sipunculidae		6	0.19	4	0.13			1	0.08							6	0.04	1	0.00		
8				Aspidosiphonidae								10	0.74	30	0.84	13	0.69	1	0.03	10	0.23			5	0.16
9	ANNELIDA	POLYCHAETA	Errantia	Polynoidae																					
10				Sigalionidae	Chrysotela sp.									1	0.02	3	0.05			1	0.01	1	0.00	4	0.13
11					Sigalion sp.																				
12				Eulepethidae																					
13				Chrysopetalidae																6	0.01				
14				Amphinomidae																					
15				Phyllodocidae																					
16				Syllidae	Syllinae											5	0.01			33	0.10	1	0.00		
17				Nereidae		1	0.07					75	4.44	1	0.00	1	0.00	16	0.20	7	0.06	13	0.10	3	0.00
18				Nephtyidae	Nephtys sp.	13	0.03	18	0.08	11	0.04	2	0.08	4	0.06			2	0.05					28	0.14
19					Micronephthys sp.																				
20				Glyceridae	Glycera sp.													1	0.04					3	0.09
21				Goniadidae		4	0.00	5	0.02			1	0.00					1	0.00	2	0.00	1	0.00	6	0.04
22				Onuphidae	Onuphis sp.															1	0.00				
23				Eunicidae	Eunice sp.									8	0.12	14	0.21			8	0.09			3	0.01
24					Marphysa sp.							1	0.17												
25					Hyrtidies sp.															3	0.05				
26				Lumbrineridae	Lumbrinereis sp.									1	0.02	1	0.08					1	0.15		
27				Dorvilleidae	Dorvillea sp.											1	0.00								
28			Sedentaria	Orbiniidae		2	0.60	2	0.01	1	0.00	2	0.00	2	0.01	1	0.00	3	0.01	8	0.02	50	0.43	16	0.10
29				Spionidae	Prionospio sp.																				
30					some species																				
31				Magelonidae																					
32				Disomidae	Paraonis fulgens sp.																				
33				Cirratulidae	Cirriformia sp.							2	0.10												
34					some species									1	0.00	1	0.00			1	0.00	1	0.01	1	0.00
35				Flabelligeridae								1	0.05	3	0.01	5	0.05	5	0.27	8	0.08	6	0.37	7	0.35
36				Ophelliidae	Ophelina sp.	43	0.52	72	0.78	30	0.30	2	0.01	2	0.06	3	0.01								
37					some species	2	0.00	5	0.00			8	0.02	1	0.00	2	0.00	2	0.00	10	0.04	1	0.00		
38				Capitellidae				3	0.01			26	0.22	1	0.00			6	0.05					2	0.00
39				Maldanidae		2	0.02	2	0.13			1	0.08			1	0.00	1	0.01	2	0.05				
40				Pectinariidae																					
41				Ampharetidae														5	0.08	1	0.00	1	0.01		
42				Terebellidae	Terebellidae sp.			1	0.00																
43					some species							1	0.01							1	0.00	3	0.01	1	0.00
44				Sabellidae	Chone sp.											2	0.00			12	0.06	1	0.00		
45					Euchone sp.																				
46					some species									2	0.61	2	0.00			33	0.13				
47				Serpulidae	Hydroides spp.											1	0.00	1	0.00	1	0.01			1	0.00
48	MOLLUSCA	POLYPLACOPHORA	Ischnochitonida	Ischnochitonidae												1	0.00			35	0.34				
49			Acanthochitonida	Acanthochitonidae												1	0.00			8	0.00				
50		GASTROPODA	Archaeogastropoda	Fissurellidae												2	0.07			4	5.13				
51				Trochidae				1	0.10											2	0.16				
52			Mesogastropoda	Cerithiidae		3	0.65					20	0.00	10	2.78	2	0.54	65	11.63	8	1.80	776	48.39	150	0.58
53				Calyptraeidae																					
54				Naticidae																					
55			Neogastropoda	Muricidae												1	0.45							1	0.44
56				Pyramidae		1	0.14	3	0.21	1	0.10	8	0.82	4	0.35	7	0.88	2	0.68	1	0.21	6	0.76	6	0.20
57				Nassariidae										1	0.18					3	0.81	1	0.38		
58				Fasciolariidae												1	1.62								
59				Olividae												2	0.18	1	0.04	2	0.18				
60				Volutidae																					
61			Heterogastropoda	Triphoridae																				1	0.01
62			Cephalaspidea	Pyramidellidae																		1	0.05		
63				Atyidae																				3	0.11
64				Philinidae																				5	0.01
65			Nudibranchia	Dorididae																					
66		SCAPHOPODA																		2	0.21				
67		BIVALVIA	Protobranchia	Arcidae												1	0.52			2	6.66				
68			Pteriomorphia	Mytilidae	Septifer sp.	1	0.03	1	0.10					6	0.33	3	0.20			2	0.07			1	0.08
69					some species									2	0.02	1	0.01			3	0.07			2	0.13
70				Isognomonidae												1	5.93			8	25.80				

Remarks····Unit: I: individuals/0.15 ㎡, W.W: wet weight(g)/0.15 ㎡
0.00: less than 0.01g +: uncountable

Table 3.10.26(2) Occurrence Benthos in the Third Field Survey

Date:25th January～4th February 1989

No.	Kind					8-B		12		13		14		15		16		19-A		19-B		20-A		20-B		Total	
	Site / Item					I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
1	PORIFERA																									+	16.00
2	COELENTERATA	HYDROZOA	Hydroida	Sertularidae																						+	9.00
3		ANTHOZOA	Pennatulacea																			1	0.04			2	0.09
4			Actiniaria																					1	0.05	2	0.09
5	PLATHELMINTHES	TURBELLARIA	Polycladida																	1	0.00			1	0.00	4	5.46
6	NEMERTINEA																									3	0.03
7	SIPUNCULOIDEA	SIPUNCULOIDEA	Sipunculida	Sipunculidae		1	0.00			5	0.12			1	0.00			1	0.00	1	0.00	1	0.00	2	0.08	11	0.12
8				Aspidosiphonidae								13	0.08											3	0.07	88	3.04
9	ANNELIDA	POLYCHAETA	Errantia	Polynoidae										1	0.00									1	0.01	19	0.23
10				Sigalionidae	Sthenelais sp.					2	0.05											2	0.12			1	0.00
11					Sigalion sp.	1	0.05	1	0.01					1	0.04											16	0.63
12				Eulepethidae														1	0.00							5	0.10
13				Chrysopetalidae																						1	0.00
14				Amphinomidae																						6	0.01
15				Phyllodocidae		1	0.00																			1	0.00
16																						1	0.00			1	0.00
17				Syllidae	Syllinae																					28	0.11
18				Nereidae						2	0.01									1	0.65	1	0.00	1	0.00	120	4.83
19				Nephtyidae	*Nephtys* sp.					13	0.65							5	0.01			33	0.50	7	0.95	138	6.85
20					*Micronephthys* sp.									1	0.00											1	0.00
21				Glyceridae	*Glycera* sp.			1	0.14							1	0.03	1	0.00							7	0.38
22				Goniadidae						9	0.02	1	0.00	4	0.00							5	0.01			39	0.08
23				Onuphidae	*Onuphis* sp.					1	0.00			5	0.01											7	0.01
24				Eunicidae	*Eunice* sp.					1	0.08			1	0.00									3	0.04	39	0.47
25					*Marphysa* sp.					1	0.19									1	0.02					3	0.28
26					*Hyalinoecia* sp.																					1	0.05
27				Lumbrineridae	*Lumbrinereis* sp.													2	0.00							2	0.23
28				Dorvilleidae	*Dorvillea* sp.					1	0.00															2	0.00
29			Sedentaria	Orbiniidae		1	0.01			24	0.13	2	0.01	3	0.00			1	0.01			47	0.21	25	0.19	194	1.13
30				Spionidae	*Prionospio* sp.																	1	0.00			1	0.00
31					same species																	1	0.00			1	0.00
32				Magelonidae		1	0.01																			1	0.01
33				Disomidae	*Paraonis fulgens* sp.															4	0.01					4	0.01
34				Cirratulidae	*Cirriformia* sp.																					2	0.10
35					same species													1	0.00							6	0.01
36				Flabelligeridae						6	0.37											20	0.33	18	0.52	78	2.40
37				Ophelliidae	*Ophelina* sp.	1	0.00	11	0.16			1	0.00									16	0.56	2	0.00	182	2.22
38					same species									1	0.00			3	0.11	1	0.00					32	0.17
39				Capitellidae						8	0.02							2	0.00			26	0.24	8	0.03	74	0.52
40				Maldanidae						1	0.00											5	0.02	1	0.03	18	0.34
41				Pectinariidae						1	0.56															1	0.56
42				Ampharetidae																						7	0.05
43				Terebellidae	*Terebellides* sp.																	3	0.03	1	0.00	5	0.03
44					same species	1	0.00			3	0.01			1	0.05							1	0.02	1	0.02	13	0.10
45				Sabellidae	*Chone* sp.					1	0.00									5	0.01	8	0.02	3	0.00	33	0.07
46					*Euchone* sp.																	3	0.00	3	0.00	8	0.00
47					same species					1	0.03											1	0.00	1	0.00	48	0.17
48				Serpulidae	*Hydroides* spp.									1	0.03											5	0.04
49	MOLLUSCA	POLYPLACOPHORA	Ischnochitonida	Ischnochitonidae																						38	0.54
50			Acanthochitonida	Acanthochitonidae																						9	0.09
51		GASTROPODA	Archaeogastropoda	Fissurellidae																						8	5.20
52				Trochidae																						3	0.28
53			Mesogastropoda	Cerithiidae						334	22.42									1	0.00					1387	105.11
54				Calyptraeidae																		1	0.08	1	0.01	2	0.01
55				Naticidae																		1	0.15	1	0.34	2	0.49
56			Neogastropoda	Muricidae						1	1.45															3	2.34
57				Pyramidellidae																						56	0.37
58				Nassariidae						13	1.52															5	1.69
59				Fasciolariidae																						1	1.42
60				Ditrupidae										2	0.04											7	0.48
61				Volutidae				1	0.05																	1	0.05
62			Heterogastropoda	Triphoridae																						1	0.04
63			Cephalaspidea	Pyramidellidae														1	0.01							2	0.06
64				Atyidae																		2	0.00			5	0.11
65				Philinidae																						3	0.01
66			Nudibranchia	Dorididae																1	0.06					1	0.06
67		SCAPHOPODA								2	0.01			2	0.05			1	0.00	1	0.00	13	0.49	4	0.10	25	0.72
68		BIVALVIA	Eutaxodonta	Arcidae																						6	7.32
69			Pteriomorphia	Mytilidae	*Solemya* type same species					1	0.00	1	0.01					1	0.00			24	0.18	18	0.62	47	1.51
70				Isognomonidae																				2	1.30	10	1.53
71																										11	31.73

Remarks----Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g +:uncountable

Table 3.10.26(3) Occurrence Benthos in the Third Field Survey

Date: 25th January ~ 4th February 1989

No.	Kind					Site	1-A		1-B		1-C		4		5-A		5-B		5-C		7		8		9-A	
						Item	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
71	MOLLUSCA	BIVALVIA	Pteriomorphia	Pteriidae	*Pinctada* sp.										1	0.83	8	158.60			28	216.90	2	5.69		
72			Heterodonta	Cardiidae																						
73				Kelliellidae																						
74				Ungulinidae			40	5.77	22	1.81	8	0.07							1	0.00			5	0.40		
75				Thyasiridae																						
76				Lucinidae	*Pillucina* sp.				1	0.01													5	0.11	2	0.01
77					some species		1	0.06							1	0.08							1	0.02	2	0.05
78				Chamidae	*Chama* sp.										3	8.10	28	36.47			20	35.86	1	0.47		
79				Cardiidae																	2	0.81			2	0.13
80				Veneridae	*Callista* type				1	0.14					8	2.08	3	1.69			1	0.17				
81					some species										1	2.68	6	5.16			9	4.68				
82				Petricolidae																						
83				Mactridae																						
84				Corbulidae	*Gari* sp.										1	0.23	2	0.08								
85				Tellinidae	*Arcopagiella* type										1	0.00			1	0.00	5	0.21	2	0.03	2	0.07
86					*Nitidotellina* type		11	0.06	12	0.07	8	0.04	2	0.01	6	0.12			3	4.25			15	0.26	45	1.28
87					*Parvitellina* type																2	0.04				
88					some species												1	0.46					1	0.00		
89			Anomalodesmata	Myochamidae																	1	0.04	1	0.02		
90				Thraciidae																			1	0.01	1	0.10
91				Lyonsiellidae																						
92	ARTHROPODA	PYCNOGONIDA											1	0.02												
93		CRUSTACEA	Myodocopa	Cypridinidae																						
94			Nebaliacea	Nebaliidae	*Nebalia* sp.																					
95			Cumacea	Bodotriidae																	1	0.00				
96					some species																8	0.00				
97			Tanaidacea	Paratanaidae																						
98				Apseudidae			11	0.01	44	0.02	30	0.02	2	0.00	2	0.00	5	0.00								
99			Isopoda	Gnathiidae																	12	0.00				
100				Anthuridae			12	0.02	10	0.01	4	0.00									1	0.00				
101				Cirolanidae													4	0.04			10	0.00				
102				Sphaeromatidae																	12	0.18	1	0.05	4	0.05
103			Amphipoda	Lysianassidae									2	0.01			5	0.01			25	0.02	2	0.00	1	0.01
104				Ampeliscidae	*Ampelisca* spp.								3	0.00			3	0.00			57	0.05	1	0.00	2	0.00
105				Haustoriidae																						
106				Phascolosomatidae																	4	0.00				
107				Lumbrinereidae																						
108				Lilliebergiidae			7	0.00	8	0.00	1	0.00	12	0.02							1	0.00				
109				Orbiniidae																	38	0.19				
110				Gammaridae					3	0.00			1	0.00			10	0.03								
111				Dexaminidae																	1	0.00				
112				Phoxidae													4	0.00			54	0.07				
113				Amphitoidae																	10	0.01				
114				Corophiidae	*Grandidierella* sp.		32	0.03	26	0.02	20	0.01														
115					some species																					
116				Aoridae																	6	0.00				
117				Caprellidae																	3	0.00			1	0.00
118			Natantia	Penaeidae																	1	0.00			6	0.09
119				Processidae																						
120			Anomura	Callianassidae							1	0.00														
121				Diogenidae									2	0.07	11	0.24	18	0.62			6	0.12	25	0.34	14	0.12
122			Brachyura	Leucosiidae																	1	0.00			2	0.31
123				Majidae																					1	0.37
124				Portunidae													3	0.24			2	0.10				
125				Xanthidae																						
126				Gonoplacidae													2	0.38								
127	ECHINODERMATA	OPHIUROIDEA	Gnathophiurida	Amphiuridae											2	0.18	1	0.20	1	0.00	2	0.02	4	0.15	2	0.33
128		HOLOTHUROIDEA	Dendrochirota	Cucumariidae																						
129			Apoda	Synaptidae																						
130	PROTOCHORDATA	UROCHORDA	Enterogona	Ascidiidae													1	0.67			1	0.30				
131			Pleurogona	Elpidiidae											3	12.42										
132				Pyuridae													5	23.38			8	10.12				
133				Molgulidae																	8	6.44				
134		ASCIDIACEA															18	21.05			11	5.81			2	6.59
135		CEPHALOCHORDATA	Amphioxi	Branchiostomidae	*Branchiostoma* sp.										3	1.14										
	Total (I, W.W)						194	7.58	243	3.45	113	0.47	128	20.23	122	33.70	207	258.88	120	13.25	586	334.78	832	57.92	240	20.12
	Total number of species						18		21		11		25		31		47		21		68		32		37	

Remarks····Unit: I: individuals/0.15 ㎡, W.W: wet weight(g)/0.15 ㎡
0.00: less than 0.01g t: uncountable

Table 3.10.26(4) Occurrence Benthos in the Third Field Survey

Date:25th January~4th February 1989

No.	Kind		Item			9-B		12		13		14		15		16		19-A		19-B		20-A		20-B		Total	
						I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
71	MOLLUSCA	BIVALVIA	Pteriomorphia	Pteriidae	*Pinctada* sp.																					39	379.61
72			Heterodonta	Carditidae								1	7.43													1	7.43
73				Kellyellidae														3	0.00					1	0.00	4	0.00
74				Ungulinidae		1	0.03													5	0.18	2	0.02			82	8.09
75				Thyasiridae																1	0.02					1	0.02
76				Lucinidae	*Pillucina* sp.									1	0.00			14	0.06			65	0.52	3	0.02	91	0.73
77					some species					1	0.07	1	0.04	1	0.00			1	0.00			8	0.14	2	0.04	17	0.48
78				Chamidae	*Chama* sp.																					52	61.50
79				Cardiidae								2	0.03							3	0.03	1	0.22			10	0.42
80				Veneridae	*Callista* type					1	0.39											2	0.25	1	1.22	17	6.14
81					some species					2	7.13			3	0.08							3	0.25	1	0.40	27	16.41
82				Petricolidae																1	0.00					1	0.00
83				Mactridae		4	0.08											3	0.02	2	0.00			3	0.03	12	0.13
84				Gariidae	*Gari* sp.															2	0.07			2	0.98	7	0.44
85				Tellinidae	*Arcopaginula* type					7	0.16											11	0.33	1	0.03	30	0.83
86					*Nitidotellina* type					18	0.80							23	1.10			101	0.77			242	4.78
87					*Jactellina* type	1	0.05			2	0.17	2	0.17	1	0.00			4	0.02					3	0.05	15	0.50
88					some species									1	0.00											3	0.46
89			Anomalodesmata	Myochamidae										2	0.01			8	0.15			4	0.06			16	0.28
90				Thraciidae																						2	0.11
91				Laternulidae																1	0.01					1	0.01
92	ARTHROPODA	PYCNOGONIDA																								1	0.02
93		CRUSTACEA	Myodocopa	Cypridinidae														1	0.00			1	0.00			2	0.00
94			Nebaliacea	Nebaliidae	*Nebalia* sp.																	1	0.00			1	0.00
95			Cumacea	Bodotriidae										1	0.00							10	0.01			12	0.01
96					some species																	1	0.00			1	0.00
97			Tanaidacea	Paratanaidae																						9	0.00
98				Apseudidae														7	0.00	40	0.04	79	0.01	6	0.00	168	0.10
99			Isopoda	Gnathiidae										1	0.00											13	0.00
100				Anthuridae																		11	0.01	2	0.06	40	0.04
101				Cirolanidae										1	0.01											15	0.11
102				Sphaeromatidae																						17	0.28
103			Amphipoda	Lysianassidae																		8	0.00	2	0.00	43	0.56
104				Ampeliscidae	*Ampelisca* spp.													2	0.00	22	0.02	15	0.02			105	0.09
105				Haustoriidae										1	0.00			2	0.00	1	0.00					4	0.00
106				Phoxocephalidae		14	0.02	7	0.02							7	0.01							5	0.00	33	0.05
107				Leucothoidae																						8	0.00
108				Liljeborgiidae				1	0.00																	29	0.02
109				Oedicerotidae																		1	0.00			2	0.00
110				Gammaridae																1	0.00					54	0.13
111				Dexaminidae																1	0.00					2	0.00
112				Photidae																		5	0.00			63	0.07
113				Amphithoidae																						10	0.01
114				Corophiidae	*Grandidierella* sp.															4	0.00	5	0.00	3	0.00	90	0.06
115					some species									1	0.00			2	0.00							3	0.00
116				Aoridae																						9	0.00
117				Caprellidae																						4	0.00
118			Macrura	Pasiphaeidae										1	0.03			1	0.04							2	0.07
119				Processidae																						9	0.05
120			Anomura	Callianassidae																						1	0.09
121				Diogenidae						1	0.02			2	0.94							1	0.00			81	2.75
122			Brachyura	Leucosiidae																						2	0.31
123				Majidae																						1	0.00
124				Portunidae																						1	0.37
125				Xanthidae						1	0.01															6	0.35
126				Goneplacidae										1	0.04					1	0.02					2	0.08
127	ECHINODERMATA	OPHIUROIDEA	Gnathophiurida	Amphiuridae										2	0.08			5	0.00	1	0.02	3	0.02	1	0.00	23	1.06
128		HOLOTHUROIDEA	Dendrochirota	Cucumariidae																						3	0.38
129			Apoda	Synaptidae																		1	0.05			1	0.05
130	PROTOCHORDATA	UROCHORDA	Enterogona	Ascidiidae																						2	0.97
131			Pleurogona	Styelidae																						3	12.42
132				Pyuridae																						11	33.50
133				Molgulidae																						8	4.44
134		ASCIDIACEA																								35	34.39
135		CEPHALOCHORDATA	Amphioxi	Branchiostomidae	*Branchiostoma* sp.							1	0.05			3	0.17									4	0.22
Total(I W.W)						27	0.25	22	0.38	456	35.80	25	7.80	45	1.42	11	0.21	96	1.59	102	0.51	689	5.18	142	5.20	4455	808.84
Total number of species							11		8		30		10		29		3		28		24		47		38		

Remarks････Unit:I:individuals/0.15 m², W.W:wet weight(g)/0.15 m²
0.00:less than 0.01g +:uncountable

Table 3.10.27(1) Tabulation at Each Division of Benthos in the Third Field Survey

Date:25th January～4th February 1989

Phylum \ Site / Item	1-A I	1-A W.W	1-B I	1-B W.W	1-C I	1-C W.W	4 I	4 W.W	5-A I	5-A W.W	5-B I	5-B W.W	5-C I	5-C W.W	7 I	7 W.W	8 I	8 W.W	9-A I	9-A W.W
PORIFERA															+	16.80				
															0.0	5.0				
COELENTERATA							1	5.38			+	0.00	1	0.02						
							0.6	26.5			0.0	0.0	0.6	0.2						
PLATHELMINTHES															3	0.03				
															0.5	0.0				
NEMERTINEA							1	0.00							4	0.04	1	0.00		
							0.6	0.0							0.7	0.0	0.1	0.0		
SIPUNCULOIDEA	8	0.19	4	0.13			10	0.74	30	0.84	13	0.69	1	0.03	10	0.23			5	0.16
	4.1	2.5	1.6	3.8			5.6	3.7	24.6	2.5	6.3	0.3	0.6	0.2	1.7	0.1			1.5	0.6
ANNELIDA	67	0.64	107	1.03	42	0.34	114	5.16	26	0.29	38	0.38	44	0.72	139	0.68	80	1.08	79	0.85
	34.5	8.4	44.0	29.9	37.2	50.7	63.7	25.5	21.3	0.9	18.4	0.1	36.7	5.4	23.6	0.2	8.6	1.9	23.2	4.3
MOLLUSCA	57	6.69	41	2.24	15	0.21	30	8.83	45	18.59	75	210.84	73	12.45	147	295.70	818	56.30	219	11.24
	29.4	88.3	16.9	64.9	13.3	31.3	16.8	43.6	36.9	55.2	36.2	81.5	60.8	93.8	24.9	68.3	87.8	97.2	64.4	55.8
ARTHROPODA	62	0.06	91	0.05	56	0.12	23	0.12	13	0.24	53	1.14			259	0.60	28	0.39	33	0.95
	32.0	0.8	37.4	1.4	49.6	17.9	12.8	0.6	10.7	0.7	25.6	0.4			43.9	0.2	3.1	0.7	9.7	4.7
ECHINODERMATA									2	0.18	3	0.58	1	0.06	2	0.02	4	0.15	2	0.33
									1.6	0.5	1.4	0.2	0.6	0.5	0.3	0.0	0.4	0.3	0.6	1.6
PROTOCHORDATA									6	13.56	25	45.05			26	20.47			2	6.59
									4.9	40.2	12.1	17.4			4.4	6.1			0.6	32.7

Remarks····Unit:I:individuals/0.15 ㎡, W.W:wet weight(g)/0.15 ㎡
0.00:less than 0.01g, +:uncountable
lower column····%

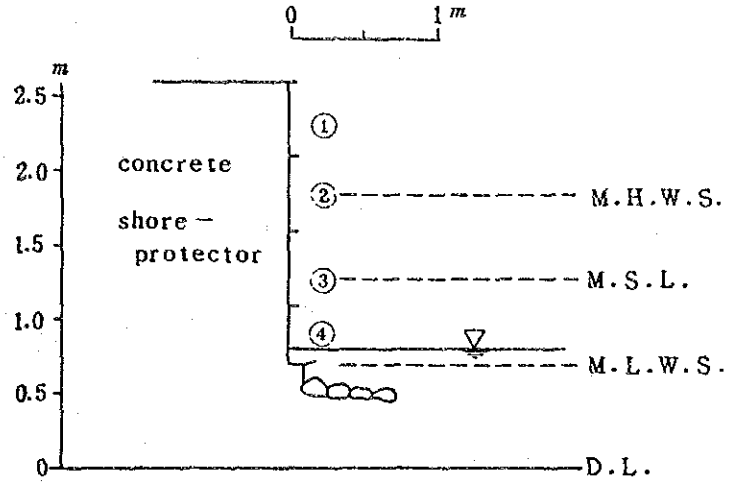
Table 3.10.27(2) Tabulation at Each Division of Benthos in the Third Field Survey

Date:25th January～4th February 1989

Phylum \ Site / Item	9-B		12		13		14		15		16		19-A		19-B		20-A		20-B		Total	
	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W	I	W.W
PORIFERA																					+	16.80
																					0.0	0.0
COELENTERATA															1	0.00	1	0.04	2	0.05	6	5.48
															1.0	0.0	0.2	0.8	1.4	1.0	0.1	0.7
PLATHELMINTHES																					3	0.03
																					0.1	0.0
NEMERTINEA													1	0.00	1	0.00	1	0.00	2	0.08	11	0.12
													1.0	0.0	1.0	0.0	0.2	0.0	1.4	1.5	0.2	0.0
SIPUNCULOIDEA	1	0.00			5	0.12	13	0.06	1	0.00									4	0.08	105	3.27
	3.7	0.0			1.1	0.3	52.0	0.8	2.2	0.0									2.8	1.5	2.4	0.4
ANNELIDA	6	0.07	13	0.31	69	1.44	4	0.01	19	0.13	1	0.03	18	0.19	12	0.09	175	1.63	80	0.95	1131	16.04
	22.2	28.0	59.1	61.6	15.1	4.0	16.0	0.1	42.2	9.2	9.1	14.3	16.7	11.9	11.8	17.6	35.8	31.6	56.3	18.3	25.4	2.0
MOLLUSCA	6	0.16	1	0.05	360	34.31	7	7.68	14	0.19			58	1.36	17	0.32	232	3.29	35	4.04	2271	674.69
	22.2	64.0	4.5	13.2	83.3	95.6	28.0	98.5	31.1	13.4			61.5	85.5	16.7	62.7	47.4	63.8	24.6	77.7	51.0	83.6
ARTHROPODA	14	0.02	8	0.02	2	0.03			9	1.02	7	0.91	15	0.04	70	0.08	76	0.13	16	0.00	336	5.22
	51.9	8.0	36.4	5.3	0.4	0.1			20.0	71.8	63.6	4.8	15.6	2.5	66.8	15.7	16.5	2.5	12.7	0.0	18.8	0.8
ECHINODERMATA									2	0.06			5	0.00	1	0.02	4	0.07	1	0.00	27	1.49
									4.4	5.6			5.2	0.0	1.0	3.9	0.8	1.4	0.7	0.0	0.6	0.2
PROTOCHORDATA							1	0.05			3	0.17									62	85.89
							4.0	0.6			27.3	81.9									1.4	10.6

Remarks····Unit:I:individuals/0.15 m², W.W:wet weight(g)/0.15 m²
0.00:less than 0.01g, +:uncountable
lower column····%

St. 1



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

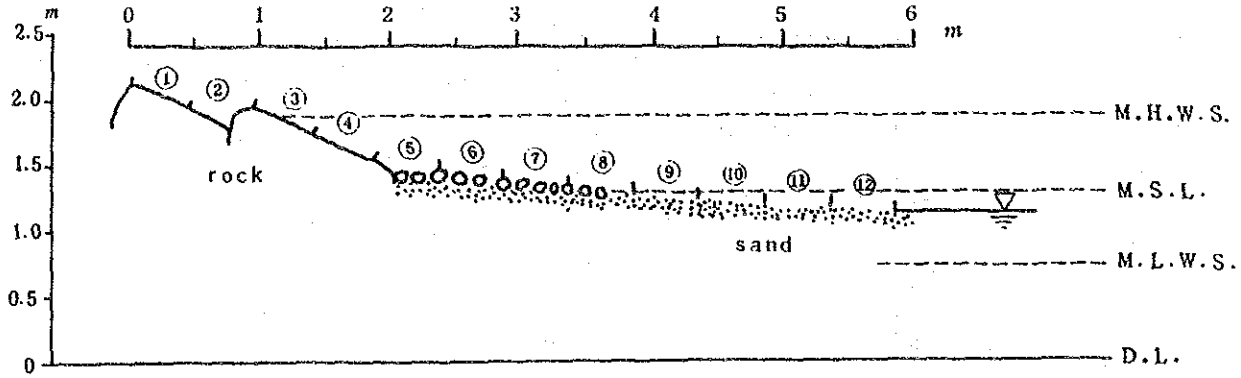
kind of the organism \ quadrate No.		①	②	③	④	unit
Littorinidae			2			ind.
Peasiella	roepstorffiana		1			ind.
Planaxis	sulcatus		1	130	4	ind.
Chthamalus	sp.		10	20		%
Balanus	amphitrite		R	30	10	%
Isognomon	sp.			R(5)		%(ind.)
Mytilidae				R(5)	R(70)	%(ind.)
Pomatoleios	kraussii			10	55	%
CYANOPHYTA				R	10	%
Halichondria	sp.				R	%
ASCIDIACEA	(group)				R	%
Siphonaria	sp.				2	ind.
Tectus	sp.				11	ind.

Date : 9th October 1988

ind. : individuals
% : rate of covering
R : rare ····· less than 5%

Fig. 3.10.24(1) Vertical Profile of Coastal Organism in the Second Field Survey

St. 2



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

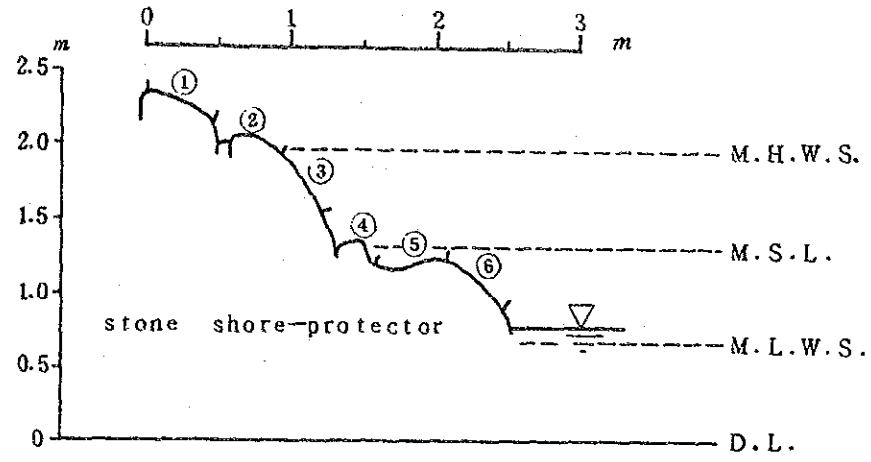
kind of the organism \ quadrate No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	unit
Littorinidae		5	5	43	37	41							ind.
Chthamalus sp.		R			R	R	R						%
Planaxis sulcatus		20		3	544	290	436	52	15	31	27	11	ind.
Peasiella roepstorffiana					6								ind.

Date : 9th October 1988

ind. : individuals
% : rate of covering
R : rare ····· less than 5%

Fig. 3.10.24(2) Vertical Profile of Coastal Organism in the Second Field Survey

St.13



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

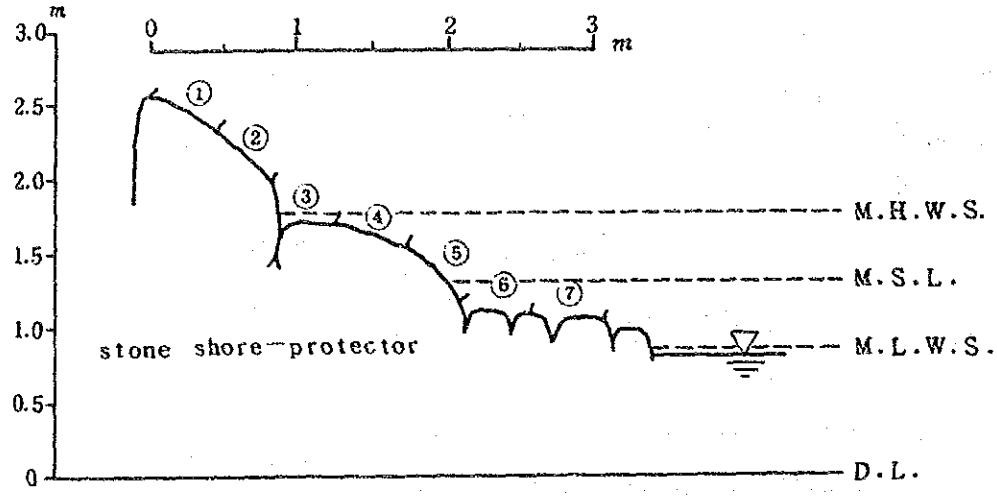
kind of the organism \ quadrate No.		①	②	③	④	⑤	⑥	unit
Chthamalus	sp.		5	25	R			%
Isognomon	sp.			R	5	R	R	%
Balanus	amphitrite				R	R	R	%
Pomatoleios	kraussii				R		R	%
Planaxis	sulcatus				2			ind.
Tectus	sp.				4	2		ind.
Siphonaria	sp.				3	4	39	ind.
CYANOPHYTA					5	20	10	%
Monilea	sp.					1		ind.

Date : 10th October 1988

ind. : individuals
% : rate of covering
R : rare ····· less than 5%

Fig. 3.10.24(3) Vertical Profile of Coastal Organism in the Second Field Survey

St. 22



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

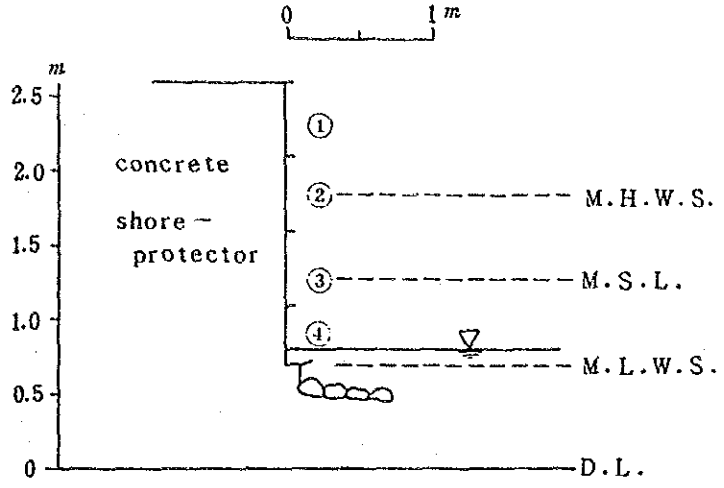
kind of the organism \ quadrate %	①	②	③	④	⑤	⑥	⑦	unit
Littorinidae		7	6	7	23			ind.
Chthamalus sp.		R	15	5	45	R	R	%
Isognomon sp.			R	R	R	R	R	%
Monodonta dama			3	6	21	1		ind.
Peasiella roepstorffiana			1					ind.
Planaxis sulcatus			2	1				ind.
Balanus amphitrite					R	R	5	%
Siphonaria sp.					11	18	50	ind.
Pomatoleios kraussii						R	R	%
Enteromorpha sp.						R	R	%
Muricidae						2	1	ind.

Date : 10th October 1968

ind. : individuals
% : rate of covering
R : rare ····· less than 5%

Fig. 3.10.24(4) Vertical Profile of Coastal Organism in the Second Field Survey

St. 1



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

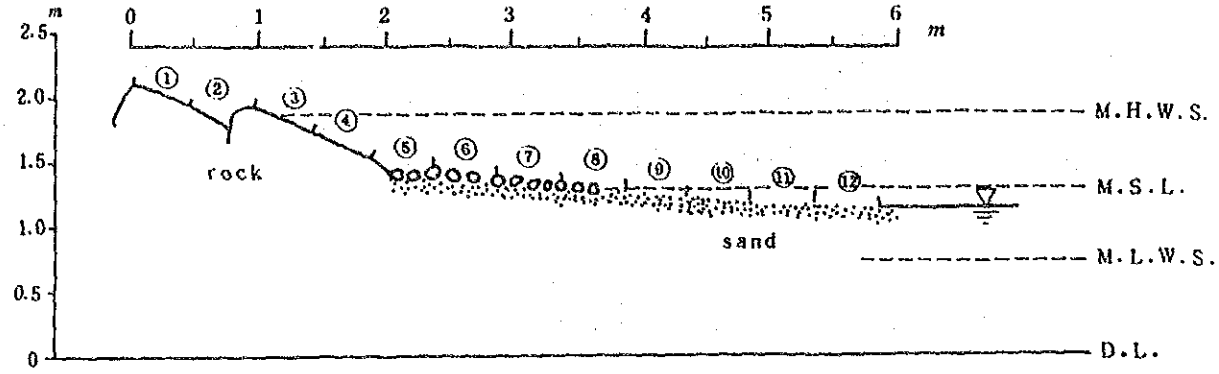
kind of the organism \ quadrate No.	①	②	③	④	unit
Littorinidae		14	4		ind.
Peasiella roepstorffiana		18	48		ind.
Planaxis sulcatus		1	55	3	ind.
Chthamalus sp.		10	20		%
Balanus amphitrite		R	35	10	%
Isognomon sp.			R (9)		% (ind.)
Mytilidae			R (20)	R(62)	% (ind.)
Pomatoleios kraussii			10	60	%
CYANOPHYTA			R	25	%
Halichondria sp.				R	%
ASCIDIACEA (group)				R	%
Tectus sp.				1	ind.
Doridacea				1	ind.
Enteromorpha sp.				R	%
Arcidae				1	ind.

Date : 12th February 1989

ind. : individuals
% : rate of covering
R : rare ····· less than 5 %

Fig. 3.10.25(1) Vertical Profile of Coastal Organism in the Third Field Survey

St.2



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

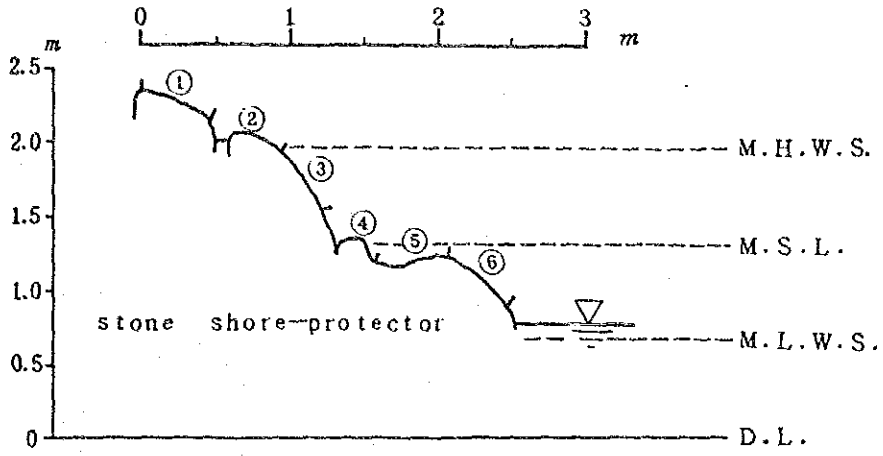
kind of the organism \ quadrate No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	unit
Littorinidae	12	155	233	24		3	4						ind.
Chthamalus sp.		R		R	R	R	R						%
Planaxis sulcatus		3		13	437	409	597	173		8	1	5	ind.
Peasiella roepstorffiana				1	3		1						ind.
Enteromorpha sp.						R	R	R		R		R	%

Date : 15th February 1989

ind. : individuals
% : rate of covering
R : rare ····· less than 5 %

Fig. 3.10.25(2) Vertical Profile of Coastal Organism in the Third Field Survey

St.13



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

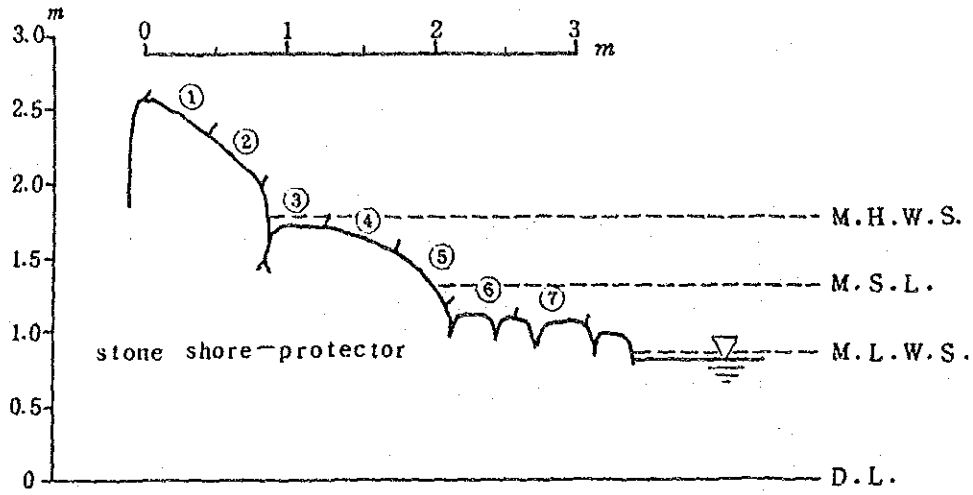
kind of the organism \ quadrate No.	①	②	③	④	⑤	⑥	unit
Littorinidae	2	2					ind.
Chthamalus sp.		5	20	R			%
Peasiella roepstorffiana			3				ind.
Isognomon sp.			R	5	R		%
CYANOPHYTA			25	5	R		%
Balanus amphitrite				R	5	25	%
Pomatoleios kraussii				R		R	%
Siphonaria sp.				11	44	88	ind.
Tectus sp.				1			ind.
Enteromorpha sp.				R	R		%

Date : 14th February 1989

ind. : individuals
% : rate of covering
R : rare ····· less than 5 %

Fig. 3.10.25(3) Vertical Profile of Coastal Organism in the Third Field Survey

St. 22



M.H.W.S. : Mean high water spring tide
M.S.L. : Mean sea level
M.L.W.S. : Mean low water spring tide
D.L. : Datum level

kind of the organism \ quadrate No.	①	②	③	④	⑤	⑥	⑦	unit
Littorinidae		6	9	1				ind.
Chthamalus sp.		R	15	5	45	R	R	%
Isognomon sp.			R	R	R	R		%
Peasiella roepstorffiana			2	67	114			ind.
Siphonaria sp.				7	4	34	30	ind.
Balanus amphitrite					R	5	5	%
Pomatoleios kraussii						R	R	%
Enteromorpha sp.						5		%
Muricidae						3	1	ind.
Asterinidae						1		ind.
Cellana radiata							1	ind.
Chamidae							1	ind.
Pteridae							1	ind.

Date : 14th February 1989

ind. : individuals
% : rate of covering
R : rare ····· less than 5%

Fig. 3.10.25(4) Vertical Profile of Coastal Organism in the Third Field Survey