

付表1
Appendix 1.

1995/7/10	Lake Shinji												
測点番号	1-1	1-2	1-3	1-4	1-5	2-1	2-2	3-1	3-2	3-1	3-2	3-3	3-4
位置	北緯 35°27'36"	35°26'00"	35°26'42"	35°26'50"	35°26'32"	35°28'01"	35°27'55"	35°27'55"	35°27'31"	35°28'02"	35°27'58"	35°27'02"	35°27'02"
東経	132°54'53"	132°55'03"	132°55'01"	132°55'11"	132°55'25"	132°56'72"	132°56'73"	133°03'18"	132°59'52"	133°01'49"	132°59'52"	133°00'01"	133°00'07"
測定時刻	開始	9:51	10:06	10:21	10:34	10:43	9:48	10:17	9:45	10:15	9:45	9:58	10:13
終了	10:02	10:11	10:23	10:39	10:46	10:05	10:23	9:51	10:18				
水深 (m)	3.7	5.4	5.5	5.5	5.5	4.7	4.7	3.0	5.8				
透明度 (m)	1.80	1.10	1.00	1.20	1.10	1.00	0.95	1.50	1.25				
水温 (℃) 0.5m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.5	24.9				
1m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.1	24.9				
2m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.1	24.9				
DO(mg/l) 0.5m	8.81	7.50	7.82	7.78	7.72	3.95	3.57	6.80	8.49				
(%) 0.5m	83.3	91.4	96.6	95.5	94.8	47.8	40.3	85.7	104.8				
(mg/l) 1m	87.3	7.47	7.86	7.76	7.72	3.54	3.17	6.77	8.45				
(%) 1m	81.9	91.1	95.9	95.3	94.9	43.5	41.2	84.2	104.1				
(mg/l) 2m	86.7	7.47	7.85	7.75	7.67	3.52	3.17	6.55	8.40				
(%) 2m	81.7	91.2	95.8	95.4	94.4	42.7	39.2	82.0	103.5				
pH 0.5m	6.79	7.07	7.16	7.15	7.13	7.74	7.69	7.48	7.75				
1m	6.91	7.07	7.15	7.12	7.10	7.65	7.62	7.48	7.71				
2m	6.90	7.06	7.13	7.12	7.10	7.61	7.59	7.50	7.67				
塩分 (‰) 0.5m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.4	3.3				
1m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.5	3.3				
2m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.5	3.3				
SS (mg/l)	3.2	4.2	3.6	3.9	3.6	2.4	3.1	4.9	3.7	6.0	3.9	2.2	
Chl-a (μg/l)	10.33	13.47	19.67	18.36	19.06	11.91	11.71	15.02	6.80	13.10	18.31	23.56	
Chl-b (μg/l)	1.10	2.78	2.57	3.19	3.95	2.04	2.29	2.19	1.74	2.43	2.00	2.07	
Chl-c (μg/l)	1.61	4.71	7.35	5.58	8.71	4.54	4.26	6.63	6.12	4.45	5.99	10.78	
Carot. (μg/l) 4E	3.60	5.43	8.48	8.25	8.42	4.71	7.27	2.92	6.24	7.52	11.44		
Carot. (μg/l) 10E	9.50	13.58	21.20	20.63	21.05	11.78	13.66	16.18	7.30	15.60	16.80	28.60	

付表2
Appendix 2.

1995/8/11	Lake Shinji												
測点番号	1-1	1-2	1-3	1-4	1-5	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
位置	北緯 35°27'34"	35°26'35"	35°26'38"	35°26'44"	35°26'36"	35°28'07"	35°27'56"	35°27'01"	35°26'53"	35°26'04"	35°27'56"	35°27'28"	35°26'84"
東経	132°54'93"	132°55'01"	132°55'12"	132°55'21"	132°55'30"	132°56'27"	132°56'27"	132°56'27"	132°56'27"	132°56'27"	133°03'14"	133°01'45"	132°58'31"
測定時刻	開始	9:42	10:00	10:10	10:22	10:35	9:07	9:15	9:26	9:35	9:49	11:51	11:15
終了	10:02	10:11	10:23	10:39	10:46	10:05	10:23	9:51	10:18				
水深 (m)	3.7	5.4	5.5	5.5	5.5	4.7	4.7	3.0	5.8				
透明度 (m)	1.80	1.10	1.00	1.20	1.10	1.00	0.95	1.50	1.25				
水温 (℃) 0.5m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.5	24.9				
1m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.1	24.9				
2m	24.5	24.3	24.3	24.6	24.6	24.3	24.5	25.1	24.9				
DO(mg/l) 0.5m	8.81	7.50	7.82	7.78	7.72	3.95	3.57	6.80	8.49				
(%) 0.5m	83.3	91.4	96.6	95.5	94.8	47.8	40.3	85.7	104.8				
(mg/l) 1m	87.3	7.47	7.86	7.76	7.72	3.54	3.17	6.77	8.45				
(%) 1m	81.9	91.1	95.9	95.3	94.9	43.5	41.2	84.2	104.1				
(mg/l) 2m	86.7	7.47	7.85	7.75	7.67	3.52	3.17	6.55	8.40				
(%) 2m	81.7	91.2	95.8	95.4	94.4	42.7	39.2	82.0	103.5				
pH 0.5m	6.79	7.07	7.16	7.15	7.13	7.74	7.69	7.48	7.75				
1m	6.91	7.07	7.15	7.12	7.10	7.65	7.62	7.48	7.71				
2m	6.90	7.06	7.13	7.12	7.10	7.61	7.59	7.50	7.67				
塩分 (‰) 0.5m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.4	3.3				
1m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.5	3.3				
2m	2.8	2.8	2.7	2.9	2.9	2.8	2.8	3.5	3.3				
SS (mg/l)	3.2	4.2	3.6	3.9	3.6	2.4	3.1	4.9	3.7	6.0	3.9	2.2	
Chl-a (μg/l)	10.33	13.47	19.67	18.36	19.06	11.91	11.71	15.02	6.80	13.10	18.31	23.56	
Chl-b (μg/l)	1.10	2.78	2.57	3.19	3.95	2.04	2.29	2.19	1.74	2.43	2.00	2.07	
Chl-c (μg/l)	1.61	4.71	7.35	5.58	8.71	4.54	4.26	6.63	6.12	4.45	5.99	10.78	
Carot. (μg/l) 4E	3.60	5.43	8.48	8.25	8.42	4.71	7.27	2.92	6.24	7.52	11.44		
Carot. (μg/l) 10E	9.50	13.58	21.20	20.63	21.05	11.78	13.66	16.18	7.30	15.60	16.80	28.60	

付表3
Appendix 3.

1995/8/13	Lake Shinji												
測点番号	1-1	1-2	1-3	1-4	1-5	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
位置	北緯 35°27'30"	35°26'34"	35°26'32"	35°26'42"	35°26'36"	35°28'01"	35°27'57"	35°27'08"	35°26'56"	35°26'12"	35°26'40"	35°26'50"	35°26'50"
東経	132°54'91"	132°54'93"	132°55'13"	132°55'22"	132°55'24"	132°56'28"	132°56'28"	132°56'28"	132°56'28"	132°56'28"	133°00'04"	132°56'70"	133°58'39"
測定時刻	開始	9:21	9:36	9:46	9:55	10:03	11:20	11:12	11:04	10:53	10:43	10:15	10:30
終了	10:02	10:11	10:23	10:39	10:46	10:05	10:23	9:51	10:18				
水深 (m)	3.7	5.5	5.5	5.5	5.5	5.3	5.7	5.7	5.2	5.0	5.5	5.7	
透明度 (m)	1.05	1.07	0.98	0.95	1.05	1.50	1.50	1.30	1.55	1.65	1.28	1.20	
水温 (℃) 0.5m	29.4	29.7	29.4	29.5	29.6	30.6	30.4	30.2	30.5	29.9	29.3	30.1	
1m	29.2	29.1	29.0	29.1	29.2	29.5	29.6	30.0	29.4	29.5	28.8	29.5	
2m	28.6	28.9	28.7	28.9	29.0	29.1	29.3	29.4	29.2	29.3	29.2	29.2	
DO(mg/l) 0.5m	8.03	7.98	8.37	8.72	8.68	8.53	8.74	8.82	9.34	8.71	9.02	9.01	
(%) 0.5m	106.9	107.3	111.5	116.9	116.2	116.6	116.5	119.0	127.1	117.6	120.6	121.9	
(mg/l) 1m	7.60	7.57	7.59	8.50	8.50	8.51	8.86	8.96	8.14	9.19	9.15		
(%) 1m	100.9	105.5	98.5	112.8	113.2	113.7	117.4	118.6	109.1	121.8	122.4		
(mg/l) 2m	75.3	83.9	7.2	7.48	7.71	7.14	7.86	8.98	8.16	7.13	8.22	7.93	
(%) 2m	99.4	84.6	98.5	99.3	102.1	94.4	104.7	116.5	106.6	95.4	109.3	105.8	
pH 0.5m	7.63	8.02	8.41	8.45	8.41	8.49	8.62	8.64	8.62	8.27	8.42	8.58	
1m	7.58	7.74	8.12	8.37	8.39	8.48	8.66	8.64	8.43	8.02	8.42	8.63	
2m	7.43	7.12	7.94	7.83	7.89	8.08	8.34	8.49	8.04	7.26	8.19	8.24	
塩分 (‰) 0.5m	2.4	2.4	2.5	2.5	2.4	2.6	2.6	2.7	2.8	2.6	2.5	2.7	
1m	2.4	2.4	2.5	2.5	2.4	2.6	2.6	2.7	2.8	2.6	2.6	2.7	
2m	2.4	2.4	2.5	2.5	2.4	2.6	2.7	2.8	2.8	2.7	2.6	2.8	
SS (mg/l)	4.2	4.9	5.5	5.2	4.8	4.0	5.2	5.3	4.4	3.3	4.1	5.3	
Chl-a (μg/l)	20.84	21.00	24.12	24.02	38.10	20.21	25.30	27.66	30.34	20.14	28.97	27.90	
Chl-b (μg/l)	2.02	1.89	2.27	1.92	2.37	0.99	1.40	2.54	1.40	1.47	1.73		
Chl-c (μg/l)	7.76	8.98	8.50	9.34	0.63	9.27	6.97	7.93	9.88	8.52	10.33	9.92	
Carot. (μg/l) 4E	10.12	9.74	10.61	10.30	11.82	9.20	11.29	11.86	13.69	7.87	12.54	12.41	
Carot. (μg/l) 10E	25.30	24.35	26.53	25.75	29.55	23.00	28.23	29.65	34.23	19.68	31.35	31.03	
Chl-a (μg/l)	16.82	19.06	22.20	21.79	22.05	17.01	22.16	24.10	27.30	17.90	25.63	25.14	
Phaeo (μg/l)	7.71	3.93	3.95	4.75	4.41	6.32	5.45	6.45	6.14	4.65	6.07	5.46	

付表4
Appendix 4.

1995/9/6	Lake Shinji												
測点番号	1-1	1-2	1-3	1-4	1-5	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
位置	北緯 35°27'26"	35°26'68"	35°26'32"	35°26'31"	35°25'30"	35°26'02"	35°27'58"	35°27'09"	35°26'56"	35°26'04"	35°27'55"	35°27'28"	35°26'82"
東経	132°54'89"	132°55'09"	132°55'07"	132°55'19"	132°55'30"	132°56'33"	132°56'33"	132°56'33"	132°56'33"	133°00'04"	133°03'15"	133°01'43"	132°58'33"
測定時刻	開始	10:00	10:07	10:15	10:23	10:29	11:34	11:26	11:19	11:13	11:05	9:55	10:17
終了	10:02	10:11	10:18	10:25	10:32	11:37	11:29	11:23	11:15	11:08	10:02	10:21	10:42

付表7
Appendix 7.

1995/11/6		Lake Shinji																		
測点番号		1-1	1-2	1-3	1-4	1-5	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3	3-4	3-5	4-1	4-2		
位置	北緯	35°27'36S	35°28'65S	35°28'37Z	35°28'66S	35°28'371	35°28'05S	35°27'56S	35°27'011	35°26'54S	35°26'084	35°27'56S	35°27'314	35°26'64S	35°26'58S	35°26'15Z	35°25'371	35°26'081		
	東経	132°54'56S	132°55'03S	132°55'10S	132°55'20Z	132°55'29S	132°59'64Z	132°59'74S	132°59'86S	133°00'014	133°00'07S	133°03'13S	133°01'43S	132°58'33S	132°56'77Z	132°53'59S	132°56'75S	133°58'30S		
測定時刻	開始	10:39	10:32	10:25	10:17	10:09	9:03	9:12	9:20	9:27	9:34	10:50	10:35	10:12	9:49	9:30	9:58	9:48		
	終了	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
水深 (m)		3.6	5.0	5.2	5.3	5.0	4.4	4.7	4.9	4.9	4.6	1.1	4.4	5.5	5.7	2.7	2.2	5.3		
透明度 (m)		1.30	1.20	1.30	1.20	1.90	1.75	1.40	1.10	1.30	2.40	1.10	1.50	1.30	1.10	1.50	1.70	1.40		
水温 (℃) 0.5m		14.2	14.5	14.6	14.5	14.5	13.7	13.9	13.9	13.9	14.2	14.2	14.0	14.1	14.4	13.8	14.5	14.2		
1m		14.1	14.5	14.6	14.4	14.4	13.5	13.7	13.9	13.9	13.9	14.2	14.2	13.9	14.1	14.4	13.8	14.6	14.2	
2m		14.1	14.4	14.4	14.3	14.3	13.7	13.8	13.8	13.9	14.1	13.8	14.0	14.3	14.0	14.5	14.5	14.2		
DO(mg/l) 0.5m		10.32	10.46	10.88	10.87	9.85	9.35	9.77	10.28	10.04	9.85	11.80	10.90	11.60	11.90	11.00	9.95	10.48		
(%) 0.5m		102.3	104.7	109.1	108.4	98.3	92.1	96.6	101.6	99.1	97.9	115.0	105.0	114.0	117.0	104.0	99.7	104.2		
(mg/l) 1m		10.27	10.50	10.93	10.87	9.85	9.36	9.88	10.29	10.05	9.86	11.30	10.60	11.20	11.50	10.60	10.01	10.47		
(%) 1m		101.5	104.6	109.1	108.3	98.1	92.1	97.4	101.6	99.2	98.0	110.0	105.0	109.0	113.0	102.0	100.1	104.2		
(mg/l) 2m		10.22	10.39	10.88	10.84	9.79	9.37	9.90	10.22	9.88	9.89	10.30	11.00	11.20	9.60	9.64	10.50			
(%) 2m		101.2	103.6	108.3	107.6	97.4	92.2	97.8	100.9	97.4	98.2	100.0	108.0	109.0	92.0	96.0	104.2			
pH 0.5m		8.13	8.11	8.03	7.92	7.85	7.20	7.31	7.47	7.59	7.62	8.28	8.00	8.49	8.61	7.82	7.79	7.71		
1m		8.17	8.22	8.25	8.11	7.92	7.28	7.40	7.63	7.67	7.69	8.26	8.04	8.47	8.62	7.80	7.89	7.88		
2m		8.16	8.24	8.28	8.15	7.93	7.30	7.46	7.66	7.69	7.71	7.92	7.92	8.41	8.55	7.40	7.90	7.92		
塩分 (‰) 0.5m		4.9	5.1	5.1	5.1	5.2	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	4.6	5.2	5.2		
1m		4.9	5.1	5.1	5.1	5.2	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	4.6	5.2	5.2		
2m		5.0	5.1	5.1	5.1	5.2	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	4.8	5.2	5.2		
SS (mg/l)		6.8	4.7	4.2	5.5	4.1	3.2	7.5	6.9	7.1	3.9	3.9	3.9	4.6	1.1	7.7	4.3	5.3		
Chl-a (μg/l)		25.44	31.35	29.42	26.96	16.12	16.91	32.48	30.48	5.39	2.40	15.20	19.25	30.10	29.02	19.45	14.75	28.65		
Chl-b (μg/l)		-6.20	1.45	1.53	0.50	0.71	2.89	0.32	0.16	7.52	3.35	0.05	1.26	0.53	-0.19	0.14	0.05	0.25		
Chl-c (μg/l)		102.42	13.01	12.59	7.47	7.58	13.62	9.77	8.85	19.05	8.48	4.80	8.84	10.49	8.50	6.32	3.71	9.39		
Carot. (μg/l) 4E		8.79	10.03	10.43	8.46	5.43	5.35	10.60	10.16	9.30	4.17	5.00	5.32	10.14	9.45	6.27	4.80	10.32		
Carot. (μg/l) 10E		21.58	25.06	26.06	21.15	13.58	13.38	26.50	25.40	23.25	10.43	12.50	13.30	25.35	23.63	15.68	12.00	25.60		
Chl-a (μg/l)		15.76	22.47	19.22	25.05	4.58	7.37	30.02	30.02	19.89	10.02	14.25	14.11	26.83	26.33	17.39	12.02	25.57		
Phaeo. (μg/l)		16.42	15.77	18.19	3.78	19.62	16.88	4.81	1.64	11.36	3.49	2.26	9.03	6.53	4.84	4.65	4.81	6.25		

付表8
Appendix 8.

1995/11/7		Lake Shinji																	
測点番号		1-1	1-2	1-3	1-4	1-5	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3	3-4	3-5	4-1	4-2	
位置	北緯	35°27'36S	35°28'67S	35°28'36S	35°28'661	35°28'37Z	35°28'021	35°27'56S	35°27'02S	35°26'52S	35°26'071	35°27'57S	35°27'334	35°26'831	35°26'62S	35°26'15S	35°25'36S	35°26'10S	
	東経	132°54'94S	132°55'03S	132°55'06S	132°55'201	132°55'28Z	132°59'59S	132°59'73Z	132°59'87Z	133°00'01S	132°59'99Z	133°03'15S	133°01'46S	132°58'32S	132°56'75S	132°53'60S	132°56'74S	133°58'30Z	
測定時刻	開始	10:25	10:16	10:11	10:03	9:57	8:48	8:58	9:05	9:14	9:21	10:45	10:29	10:00	9:42	9:17	9:48	9:33	
	終了	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10:29		10:29	10:22	10:15	10:07	10:00	8:53	9:02	9:10	9:17	9:25	10:50	10:34	10:04	9:49	9:24	9:49	9:36	
水深 (m)		3.8	5.1	5.2	5.3	5.3	4.6	4.9	4.9	4.8	4.8	1.1	4.4	5.5	5.7	2.9	2.3	5.3	
透明度 (m)		1.30	1.50	1.40	1.60	1.70	1.50	1.30	1.50	1.40	1.50	1.10	1.40	1.50	1.00	1.20	2.30	1.40	
水温 (℃) 0.5m		14.3	14.8	14.6	14.5	14.3	13.8	14.0	13.8	14.0	14.1	14.7	14.1	14.2	14.6	13.9	14.3	14.2	
1m		14.3	14.8	14.5	14.4	14.3	13.8	14.2	13.8	14.0	14.1	14.5	14.0	14.1	14.5	13.9	14.3	14.1	
2m		14.3	14.4	14.4	14.3	14.2	13.9	14.2	13.9	13.9	14.0	14.0	14.0	14.4	14.0	14.1	14.1	14.0	
DO(mg/l) 0.5m		10.63	10.96	10.85	10.41	10.41	10.37	10.65	9.84	10.36	10.60	13.40	12.10	12.80	13.20	10.80	9.29	10.67	
(%) 0.5m		106.1	110.6	106.9	104.5	103.6	102.3	105.3	96.9	102.8	105.3	133.0	122.0	127.0	131.0	108.0	92.7	105.9	
(mg/l) 1m		10.77	10.97	10.98	10.49	10.48	10.37	10.39	9.87	10.38	10.64	12.60	12.00	12.40	13.10	9.90	9.22	10.72	
(%) 1m		107.8	110.5	109.9	104.8	104.0	101.8	103.6	97.3	103.0	105.5	126.0	119.0	124.0	129.0	96.0	91.3	105.2	
(mg/l) 2m		10.76	10.88	10.87	10.56	10.49	10.22	10.15	9.82	10.34	10.60	11.40	12.10	12.30	9.50	8.90	10.63		
(%) 2m		107.2	108.3	108.3	105.0	104.5	100.5	96.9	90.0	104.9	112.0	120.0	121.0	93.0	88.5	105.2			
pH 0.5m		8.10	8.05	7.91	7.84	7.70	7.30	7.54	7.64	7.61	7.71	8.70	8.55	8.62	8.82	7.67	7.75	7.67	
1m		8.22	8.23	8.11	7.98	7.85	7.44	7.70	7.67	7.70	7.82	8.45	8.57	8.67	8.82	7.49	7.76	7.87	
2m		8.25	8.27	8.16	8.02	7.90	7.50	7.74	7.67	7.75	7.88	8.55	8.55	8.77	7.47	7.75	7.93		
塩分 (‰) 0.5m		5.0	5.2	5.2	5.3	5.1	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.0	5.1	4.5	5.2	5.2	
1m		5.1	5.2	5.2	5.3	5.2	5.4	5.3	5.2	5.2	5.2	5.2	5.2	5.0	5.1	4.9	5.3	5.2	
2m		5.2	5.2	5.2	5.3	5.3	4.4	3.9	4.0	5.5	5.5	3.8	4.9	5.4	5.7	4.6	4.0	3.8	
SS (mg/l)		3.7	4.0	4.9	5.5	5.3	4.4	3.9	4.0	5.5	5.5	3.8	4.9	5.4	5.7	4.6	4.0	3.8	
Chl-a (μg/l)		23.51	26.66	27.49	19.32	25.68	22.14	29.25	19.22	31.04	26.13	18.86	23.31	27.92	24.39	5.55	11.89	30.66	
Chl-b (μg/l)		1.18	-0.32	-0.03	-0.10	0.13	-0.02	0.05	0.65	0.02	-0.18	2.63	0.57	0.57	0.45	0.72	1.59	0.09	
Chl-c (μg/l)		9.08	7.47	7.46	4.71	9.23	7.82	8.05	7.73	10.70	8.25	5.58	8.51	8.98	8.55	3.38	7.34	10.74	
Carot. (μg/l) 4E		8.35	9.33	9.36	6.59	8.49	7.46	10.20	6.40	10.41	9.12	6.55	7.94	8.88	9.22	1.67	3.11	9.57	
Carot. (μg/l) 10E		20.88	23.33	23.40	16.48	21.23	18.65	25.50	16.00	26.03	22.80	16.38	19.85	22.20	23.05	4.16	7.78	23.93	
Chl-a (μg/l)		20.76	25.72	26.63	17.94	21.63	17.94	28.60	17.52	107.28	27.66	16.15	19.92	26.43	20.99	2.32	26.62	29.60	
Phaeo. (μg/l)		5.34	2.39	2.04	2.39	7.44	6.12	2.22	3.42	-128.78	1.94	5.83	6.61	3.28	6.68	6.13	-19.67	2.30	

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汽水湖中海における塩分躍層動態の長期観測

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Long-term observation of the halocline in Nakaumi Lagoon

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Abstract: We have developed a long-term observation system for the study of halocline behavior in brackish lakes and estuaries. The system consists of an acoustic profiling unit, a digital recorder, and a digital play back system. By using this system, we have observed halocline behavior in the center and at the margin of Nakaumi lagoon, southwest Japan. Salinity, pH, dissolved oxygen, water temperature, and water flow rate and direction were checked by the other equipment. The results suggest that the halocline is easily moved, and its behavior is influenced by wind.

Key Words: halocline behavior, long-term observation system, acoustic profile, salinity, water flow rate and direction

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