

Third Report of the Regular Limnological Survey
of Lake Biwa (1968 and 1969)
I. Abiotic Environments¹⁾²⁾

By

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(Received July 10, 1970)

This is the third report* on the abiotic environments of Lake Biwa during two years from January of 1968 through December of 1969. It is important to observe limnological features for many years and we hope the data described in this report will be serviceable for this purpose. As for the detailed discussion on this part we are considering to do it in the next year.

The series of reports were edited by the Director of the Station, Syuiti Mori, and the present part, on the abiotic environments, was arranged especially by Shoji Horie. The field measurement of some environmental factors was performed chiefly by M. Nakanishi, Y. Nakajima and T. Ueda and the titration of dissolved oxygen was done by T. Ueda, and other members of the Station have assisted this survey in many ways.

* HORIE, S., First report of the regular limnological survey of Lake Biwa (Oct. 1965-1966). V. Abiotic environment. Mem. Fac. Sci., Kyoto Univ., Ser. Biol., **1**, 95-119, 1967.

HORIE, S., Second report of the regular limnological survey of Lake Biwa (1967). IV. Abiotic environment. *ibid.* **2**, 125-136, 1968.

1) Contribution from the Otsu Hydrobiological Station, Kyoto University, No. 207.
2) JIBP-PF Publication No. 91.

Part I (1968)

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Ie-1	0	8.2	7.2	6.94	84
Date	Jan. 12, 1968	1	8.2	7.2	6.94	84
Weather	Clear	2	8.2	7.2	6.95	84
		5	8.2	7.2	6.89	83
Air temperature	8.6°C	10	8.2	7.2	7.01	85
Wind direction	SW	15	8.15	7.2	6.90	83
speed	1.5 m/sec.	20	8.15	7.2	6.91	84
Cloud form	—	30	8.15	7.1	6.88	83
amount	0	50	8.15	7.1	6.89	83
Transparency	9.5 m	72(B)	7.3	6.8	4.40	52
Wave	Rippled					
Mud temperature	7.7°C					
Station	Ie-1	0	6.5	7.4	7.18	83
Date	Feb. 20, 1968	1	6.5	7.4	7.16	83
Weather	Clear	2	6.5	7.3	7.18	83
Air temperature	5.7°C	5	6.5	7.3	7.19	83
Wind direction	NW	10	6.4	7.3	7.13	82
Speed	3.0 m/sec.	15	6.4	7.3	7.17	83
Cloud form	CS	20	6.4	7.3	7.18	83
amount	5	30	6.4	7.2	7.13	82
Transparency	6.5 m	50	6.3	7.2	7.27	84
Wave	Gentle	72(B)	5.9	7.2	7.37	84
Mud temperature	6.3°C					
Station	Ie-1	0	7.8	7.5	7.79	93
Date	Mar. 15, 1968	1	6.7	7.5	7.75	90
Weather	Clear	2	6.4	7.5	7.82	90
Air temperature	11.5°C	5	6.2	7.5	7.80	90
Wind direction	—	10	6.15	7.5	7.76	89
speed	0	15	6.15	7.5	7.80	90
Cloud form	C	20	6.1	7.5	7.85	90
amount	4	30	6.1	7.4	7.76	89
Transparency	9.1 m	50	6.05	7.4	7.70	88
Wave	—	73(B)	6.0	7.3	7.58	87
Mud temperature	6.5°C					
Station	Ie-1	0	11.3	7.4	7.39	96
Date	Apr. 15, 1968	1	10.0	7.3	7.42	94
Weather	Clear	2	10.0	7.3	7.43	94
Air temperature	18.0°C	5	9.7	7.2	7.51	94

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wind direction	—	10	9.2	7.2	7.50	93
speed	0	15	8.65	7.2	7.61	93
Cloud form	CK	20	8.5	7.2	7.51	91
amount	5	30	8.1	7.1	7.62	92
Transparency	9.1 m	50	7.2	7.1	7.52	89
Wave	Smooth	70	6.2	7.1	7.10	82
Mud temperature	7.4°C					
Station	Ie-1	0	13.3	7.5	6.74	91
Date	May 13, 1968	1	13.3	7.5	6.77	92
Weather	Rain	2	13.3	7.5	6.79	92
Air temperature	15.3°C	5	13.2	7.5	6.72	91
Wind direction	ENE	10	13.1	7.5	6.77	91
speed	3.0 m/sec.	15	12.9	7.5	6.75	91
Cloud form	N	20	11.2	7.4	6.92	90
amount	10	30	7.9	7.4	7.12	85
Transparency	3.8 m	50	6.55	7.4	6.75	78
Wave	Rippled	74.5 (B)	6.25	7.1	6.81	79
Mud temperature	6.5°C					
Station	Ie-1	0	21.8	8.0	5.83	94
Date	June 17, 1968	1	21.45	8.0	5.97	96
Weather	Clear	2	20.4	7.8	6.13	96
Air temperature	26.4°C	5	19.9	7.8	6.08	94
Wind direction	SW	10	19.6	7.7	5.98	92
speed	1.3 m/sec.	15	17.1	7.6	5.99	88
Cloud form	CS	20	12.3	7.4	6.16	82
amount	7	30	9.8	7.3	6.30	79
Transparency	6.5 m	50	7.0	7.3	6.60	77
Wave	Smooth	70	6.45	7.0	6.02	70
Mud temperature	7.4°C					
Station	Ie-1	0	25.0	8.2	4.82	82
Date	July 15, 1968	1	25.0	8.2	4.82	82
Weather	Cloudy	2	25.0	8.2	4.81	82
Air temperature	26.9°C	5	24.9	8.2	3.96	67
Wind direction	—	10	22.8	8.1	4.95	81
speed	0	15	19.0	7.3	4.31	66
Cloud form	—	20	12.4	7.1	4.82	64
amount	10	30	9.6	7.1	5.29	66
Transparency	6.0 m	50	6.95	7.0	5.33	63
Wave	Smooth	70	6.35	6.8	4.66	54
Mud temperature	6.6°C					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Ie-1	0	28.8	7.8	4.43	81
Date	Aug. 16, 1968	1	28.4	7.8	4.31	78
Weather	Clear	2	27.8	7.8	4.43	80
Air temperature	30.4°C	5	27.6	7.8	4.39	79
Wind direction	—	10	25.0	7.6	4.44	76
speed	0	15	15.8	7.1	4.74	68
Cloud form	C, KN	20	12.9	6.9	4.58	62
amount	3	30	9.8	6.8	5.06	63
Transparency	6.5 m	50	6.9	6.8	5.19	61
Wave	Smooth	75	6.4	6.8	5.29	61
Mud temperature	—					
Station	Ie-1	0	24.0	8.0	5.56	93
Date	Sept. 17, 1968	1	23.9	8.0	5.70	95
Weather	Cloudy	2	23.9	8.0	5.56	93
Air temperature	25.6°C	5	23.8	8.0	5.65	94
Wind direction	S	10	23.4	7.7	5.38	89
speed	1.7 m/sec.	15	20.9	7.3	4.99	79
Cloud form	SC	20	11.7	7.1	5.33	70
amount	10	30	9.0	7.1	5.47	67
Transparency	5.5 m	50	6.7	7.1	6.07	71
Wave	Smooth	73	6.4	—	5.05	58
Mud temperature	6.9°C					
Station	Ie-1	0	19.7	7.6	5.62	87
Date	Oct. 16, 1968	1	19.6	7.6	5.64	87
Weather	Cloudy	2	19.4	7.6	6.15	95
Air temperature	17.6°C	5	19.4	7.6	5.63	87
Wind direction	—	10	19.35	7.5	5.77	89
speed	0	15	19.3	7.5	6.02	92
Cloud form	CS	20	19.15	7.0	5.56	85
amount	8-9	30	9.7	7.0	5.56	70
Transparency	5.0 m	50	7.0	7.0	5.94	70
Wave	Smooth	70	6.5	6.8	4.56	53
Mud temperature	7.2°C					
Station	Ie-1	0	16.4	7.6	6.56	95
Date	Nov. 14, 1968	1	16.4	7.6	6.54	95
Weather	Clear	2	16.2	7.6	6.61	95
Air temperature	13.2°C	5	15.8	7.6	6.58	94
Wind direction	E	10	15.6	7.6	6.53	93
speed	1.5 m/sec.	15	15.6	7.6	6.51	93
Cloud form	C	20	15.1	7.5	5.96	84

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
amount	1	30	8.4	7.0	5.97	73
Transparency	7.5 m	50	7.0	7.1	6.10	72
Wave	Smooth	74(B)	6.5	6.9	4.67	54
Mud temperature	6.8°C					
Station	Ie-1	0	12.2	7.4	6.69	89
Date	Dec. 16, 1968	1	12.2	7.4	6.74	89
Weather	Clear	2	12.2	7.4	6.72	89
Air temperature	8.0°C	5	12.2	7.4	6.69	89
Wind direction	W	10	12.2	7.4	6.67	88
speed	12 m/sec.	15	12.0	7.2	6.63	87
Cloud form	N	20	11.7	7.2	6.54	86
amount	5	30	10.0	7.0	6.40	81
Transparency	5.0 m	50	7.0	7.0	5.17	61
Wave	Moderate	70	6.5	6.9	4.51	52
Mud temperature	6.9°C					
Station	Nb-2	0	2.1	7.4	8.98	93
Date	Jan. 16, 1968	1	2.1	7.3	8.82	91
Weather	Clear	1.5(B)	2.0	7.3	9.00	93
Air temperature	3.5°C					
Wind direction	W					
speed	2.5 m/sec.					
Cloud form	N					
amount	5					
Transparency	0.3 m					
Wave	Rippled					
Mud temperature	—					
Station	Nb-5	0	2.6	7.5	8.72	92
Date	Jan. 16, 1968	1	2.6	7.5	8.70	91
Weather	Clear	2	2.7	7.4	8.68	91
Air temperature	4.3°C	3.9(B)	2.7	7.4	8.70	91
Wind direction	W					
speed	5.3 m/sec.					
Cloud form	N					
amount	6-7					
Transparency	0.9 m					
Wave	—					
Mud temperature	4.1°C					
Station	Na-3	0	3.7	7.5	8.65	93
Date	Jan. 16, 1968	1	3.7	7.4	8.61	93
Weather	Cloudy	1.8(B)	3.7	7.4	8.60	93

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Air temperature	4.1°C					
Wind direction	SSW					
speed	4.0 m/sec.					
Cloud form	SK					
amount	9-10					
Transparency	1.7 m					
Wave	Smooth					
Mud temperature	4.6°C					
Station	Nb-2	0	4.3	7.1	7.62	84
Date	Feb. 17, 1968	1	4.3	7.1	7.57	83
Weather	Cloudy	1.5(B)	4.3	7.1	7.56	83
Air temperature	2.8°C					
Wind direction	SW					
speed	1.0 m/sec.					
Cloud form	N					
amount	10					
Transparency	1.1 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	3.3	7.4	7.95	85
Date	Feb. 17, 1968	1	3.3	7.4	7.91	85
Weather	Cloudy	2	3.3	7.4	8.07	86
Air temperature	7.6°C	4.0(B)	3.2	7.2	7.49	80
Wind direction	—					
speed	0					
Cloud form	N					
amount	8					
Transparency	1.0 m					
Wave	Smooth					
Mud temperature	4.3°C					
Station	Na-3	0	4.3	7.1	7.52	82
Date	Feb. 17, 1968	1	4.2	7.1	7.49	82
Weather	Cloudy	1.8(B)	4.0	7.1	7.33	80
Air temperature	2.3°C					
Wind direction	N					
speed	1.5 m/sec.					
Cloud form	N					
amount	9					
Transparency	1.1 m					
Wave	Smooth					
Mud temperature	4.7°C					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Nb-2	0	9.4	7.3	6.83	85
Date	Mar. 16, 1968	1	9.15	7.3	6.86	85
Weather	Clear	1.7 (B)	9.15	7.3	6.77	84
Air temperature	11.1°C					
Wind direction	—					
speed	0					
Cloud form	SK					
amount	3					
Transparency	0.6 m					
Wave	Smooth					
Mud temperature	9.2°C					
Station	Nb-5	0	8.2	7.5	7.82	95
Date	Mar. 16, 1968	1	8.1	7.4	7.74	93
Weather	Cloudy	2	7.8	7.4	7.60	91
Air temperature	14.9°C	4.1 (B)	7.7	7.4	7.59	91
Wind direction	—					
speed	0					
Cloud form	SC					
amount	9					
Transparency	2.3 m					
Wave	Smooth					
Mud temperature	8.3°C					
Station	Na-3	0	9.6	7.3	7.28	91
Date	Mar. 16, 1968	1	9.4	7.3	6.92	86
Weather	Clear	1.9 (B)	8.3	7.2	7.12	86
Air temperature	12.4°C					
Wind direction	N					
speed	1.0 m/sec.					
Cloud form	SC					
amount	6					
Transparency	0.7 m					
Wave	Smooth					
Mud temperature	8.4°C					
Station	Nb-2	0	13.7	7.5	7.12	98
Date	Apr. 13, 1968	1	12.45	7.5	7.17	96
Weather	Clear	2.1 (B)	11.7	7.5	7.23	95
Air temperature	14.0°C					
Wind direction	—					
speed	0					
Cloud form	—					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
amount	0					
Transparency	1.0 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	11.9	7.4	7.15	94
Date	Apr. 13, 1968	1	11.7	7.4	7.15	94
Weather	Clear	2	11.7	7.4	7.17	94
Air temperature	15.2°C	4.4 (B)	11.3	7.4	7.18	93
Wind direction	—					
speed	0					
Cloud form	—					
amount	0					
Transparency	2.0 m					
Wave	Smooth					
Mud temperature	11.8°C					
Station	Na-3	0	13.3	7.3	6.92	94
Date	Apr. 13, 1968	1	13.3	7.3	6.90	94
Weather	Clear	2.3 (B)	12.8	7.1	6.87	92
Air temperature	17.2°C					
Wind direction	—					
speed	0					
Cloud form	KC					
amount	1					
Transparency	1.6 m					
Wave	Smooth					
Mud temperature	12.6°C					
Station	Nb-2	0	16.1	7.4	5.94	85
Date	May 14, 1968	1	16.0	7.4	5.90	85
Weather	Clear	2(B)	16.0	7.4	5.89	85
Air temperature	19.5°C					
Wind direction	SW					
speed	7.5 m/sec.					
Cloud form	—					
amount	0					
Transparency	0.8 m					
Wave	Moderate					
Mud temperature	—					
Station	Nb-5	0	15.6	7.6	6.15	88
Date	May 14, 1968	1	15.6	7.6	6.21	88

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Weather	Clear	2	15.6	7.6	6.20	88
Air temperature	20.6°C	4.5(B)	15.6	7.5	6.12	87
Wind direction	SW					
speed	8.5 m/sec.					
Cloud form	CK					
amount	1					
Transparency	1.7 m					
Wave	Moderate					
Mud temperature	15.6°C					
Station	Na-3	0	16.0	7.6	6.47	93
Date	May 14, 1968	1	15.9	7.6	6.49	93
Weather	Clear	2.2(B)	15.7	7.6	6.51	93
Air temperature	22.5°C					
Wind direction	—					
speed	3.0 m/sec.					
Cloud form	CK					
amount	3					
Transparency	1.4 m					
Wave	Smooth					
Mud temperature	15.9°C					
Station	Nb-2	0	23.35	7.8	5.46	91
Date	June 18, 1968	1	22.9	7.8	5.48	90
Weather	Cloudy	1.8(B)	22.8	7.7	5.48	90
Air temperature	21.7°C					
Wind direction	N					
speed	1.5 m/sec.					
Cloud form	SK					
amount	9					
Transparency	1.1 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	22.9	7.8	5.60	92
Date	June 18, 1968	1	22.8	7.8	5.59	92
Weather	Clear	2	22.5	7.8	5.69	93
Air temperature	23.6°C	4.5(B)	22.25	7.6	5.29	86
Wind direction	—					
speed	0					
Cloud form	Sk					
amount	3					
Transparency	1.4 m					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Smooth					
Mud temperature	21.9°C					
Station	Na-3	0	24.25	7.8	5.77	97
Date	June 18, 1968	1	23.95	7.8	5.71	96
Weather	Clear	2.0(B)	23.4	7.8	5.59	93
Air temperature	25.8°C					
Wind direction	E					
speed	1.0 m/sec.					
Cloud form	SK					
amount	3					
Transparency	1.3 m					
Wave	Smooth					
Mud temperature	23.0°C					
Station	Nb-2	0	25.4	7.7	4.80	82
Date	July 17, 1968	1	24.85	7.6	4.49	76
Weather	Cloudy	2.2(B)	24.75	7.5	4.44	76
Air temperature	27.4°C					
Wind direction	N					
speed	3.3 m/sec.					
Cloud form	S					
amount	9					
Transparency	1.1 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	25.1	8.1	4.61	79
Date	July 17, 1968	1	25.1	8.0	4.56	78
Weather	—	2	25.0	7.9	4.54	77
Air temperature	26.8°C	4.6(B)	24.1	7.7	4.24	71
Wind direction	NE					
speed	3.0 m/sec.					
Cloud form	S					
amount	—					
Transparency	2.3 m					
Wave	Smooth					
Mud temperature	23.1°C					
Station	Na-3	0	25.1	8.1	4.69	80
Date	July 17, 1968	1	25.1	8.0	4.67	80
Weather	Clear	2.2(B)	23.6	7.4	4.08	68
Air temperature	28.1°C					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wind direction	NE					
speed	2.0 m/sec.					
Cloud form	S					
amount	7					
Transparency	1.8 m					
Wave	Smooth					
Mud temperature	23.2°C					
Station	Nb-2	0	28.05	7.7	5.53	100
Date	Aug. 22, 1968	1	28.04	7.7	5.66	102
Weather	Clear	1.9 (B)	28.04	7.6	5.65	102
Air temperature	27.0°C					
Wind direction	NE					
speed	4.0 m/sec.					
Cloud form	C					
amount	6					
Transparency	0.6 m					
Wave	Gentle					
Mud temperature	—					
Station	Nb-5	0	27.70	7.7	5.37	96
Date	Aug. 22, 1968	1	27.70	7.7	5.33	96
Weather	Clear	2	27.70	7.7	5.29	95
Air temperature	27.1°C	4.3 (B)	27.24	7.6	5.14	91
Wind direction	NNE					
speed	—					
Cloud form	C					
amount	6					
Transparency	2.0 m					
Wave	Gentle					
Mud temperature	26.9°C					
Station	Na-3	0	27.92	9.2	7.42	133
Date	Aug. 22, 1968	1	27.92	9.3	7.26	131
Weather	Clear	2.0 (B)	27.30	8.4	7.03	125
Air temperature	27.1°C					
Wind direction	N					
speed	—					
Cloud form	C					
amount	6					
Transparency	1.8 m					
Wave	—					
Mud temperature	26.8°C					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Nb-2	0	23.8	7.3	5.57	93
Date	Sept. 13, 1968	1	23.8	7.3	5.53	92
Weather	Rain	1.8(B)	23.6	7.3	5.44	91
Air temperature	20.2°C					
Wind direction	S					
speed	1.0 m/sec.					
Cloud form	N					
amount	10					
Transparency	0.7 m					
Wave	Smooth					
Mud temperature	23.5°C					
Station	Nb-5	0	24.15	7.7	5.74	96
Date	Sept. 13, 1968	1	24.3	7.7	5.71	96
Weather	Rain	2	24.3	7.6	5.75	97
Air temperature	20.0°C	4.5(B)	24.0	7.3	5.17	87
Wind direction	NE					
speed	1.0 m/sec.					
Cloud form	N					
amount	10					
Transparency	1.4 m					
Wave	Smooth					
Mud temperature	23.7°C					
Station	Na-3	0	24.6	8.4	6.92	117
Date	Sept. 13, 1968	1	24.7	8.4	6.98	119
Weather	Rain	2.0(B)	24.5	8.2	6.20	105
Air temperature	20.0°C					
Wind direction	—					
speed	0					
Cloud form	N					
amount	10					
Transparency	2.0 m					
Wave	—					
Mud temperature	23.7°C					
Station	Nb-2	0	17.3	7.2	4.97	73
Date	Oct. 17, 1968	1	16.9	7.2	5.06	74
Weather	Cloudy	2.1(B)	16.7	7.0	5.26	77
Air temperature	17.0°C					
Wind direction	—					
speed	0					
Cloud form	CS					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
amount	8					
Transparency	0.6 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	18.4	—	5.76	87
Date	Oct. 17, 1968	1	18.35	7.7	5.71	86
Weather	Cloudy	2	18.3	7.7	5.75	87
Air temperature	18.0°C	4.4 (B)	18.3	7.5	5.12	77
Wind direction	S					
speed	2.0 m/sec.					
Cloud form	CS					
amount	9					
Transparency	2.3 m					
Wave	Smooth					
Mud temperature	18.6°C					
Station	Na-3	0	17.9	8.0	6.28	94
Date	Oct. 17, 1968	1	17.9	8.0	6.35	95
Weather	Cloudy	2.1 (B)	17.5	7.7	6.01	89
Air temperature	18.2°C					
Wind direction	S					
speed	3.5 m/sec.					
Cloud form	CS					
amount	7					
Transparency	2.1 m					
Wave	Rippled					
Mud temperature	17.7°C					
Station	Nb-2	0	11.5	7.8	7.05	92
Date	Nov. 15, 1968	1	11.5	7.8	7.13	93
Weather	Clear	1.8 (B)	11.5	7.8	7.11	93
Air temperature	13.6°C					
Wind direction	SW					
speed	2.0 m/sec.					
Cloud form	SK					
amount	6					
Transparency	0.8 m					
Wave	Rippled					
Mud temperature	12.1°C					
Station	Nb-5	0	12.7	7.9	6.90	92
Date	Nov. 15, 1968	1	12.7	7.9	6.93	93

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Weather	Clear	2	12.7	7.9	6.84	92
Air temperature	12.7°C	4.2(B)	12.6	7.8	6.89	92
Wind direction	SE					
speed	2.5 m/sec.					
Cloud form	SK					
amount	7					
Transparency	1.8 m					
Wave	Rippled					
Mud temperature	13.8°C					
Station	Na-3	0	13.0	8.1	7.08	95
Date	Nov. 15, 1968	1	13.0	8.1	6.88	93
Weather	Clear	2.0(B)	12.8	8.4	7.55	101
Air temperature	12.2°C					
Wind direction	NE					
speed	1.5 m/sec.					
Cloud form	SK					
amount	6					
Transparency	2.0 m					
Wave	Smooth					
Mud temperature	13.7°C					
Station	Nb-2	0	9.2	7.4	7.12	88
Date	Dec. 17, 1968	1	9.2	7.4	7.07	88
Weather	Cloudy	1.7(B)	9.2	7.3	7.08	88
Air temperature	7.5°C					
Wind direction	SW					
speed	7.0 m/sec.					
Cloud form	SK					
amount	8					
Transparency	1.0 m					
Wave	Rippled					
Mud temperature	—					
Station	Nb-5	0	10.0	7.5	7.04	89
Date	Dec. 17, 1968	1	10.0	7.5	7.03	89
Weather	Cloudy	2	10.0	7.5	7.03	89
Air temperature	7.5°C	4.1(B)	10.0	7.4	6.96	88
Wind direction	SW					
speed	8.3 m/sec.					
Cloud form	SK					
amount	9					
Transparency	1.8 m					

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Gentle					
Mud temperature	10.4°C					
Station	Na-3	0	9.5	7.5	6.89	86
Date	Dec. 17, 1968	1	9.6	7.5	6.90	86
Weather	Cloudy	2.0 (B)	9.6	7.5	6.86	86
Air temperature	8.5°C					
Wind direction	W					
speed	7.0 m/sec.					
Cloud form	SK					
amount	8					
Transparency	1.1 m					
Wave	Rippled					
Mud temperature	10.7°C					

Part II (1969)

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Ie-1	0	8.5	7.1	7.25	88
Date	Jan. 17, 1969	1	8.5	7.1	7.25	88
Weather	Clear	2	8.5	7.1	7.55	92
Air temperature	4.6°C	5	8.5	7.1	7.26	88
Wind direction	S	10	8.4	7.1	7.22	88
speed	1.0 m/sec.	15	8.4	7.1	7.23	88
Cloud form	C, S	20	8.4	7.1	7.20	87
amount	3	30	8.4	7.1	7.21	88
Transparency	8.6 m	40	8.35	7.1	7.20	87
Wave	Smooth	50	8.35	7.2?	7.20	87
Mud temperature	—	60	8.35	6.8	6.76	82
		63	7.75	6.8	5.64	68
		67	7.15	6.8	4.83	57
		(B)	6.90	6.8	4.38	51
Station	Ie-1	0	8.9	7.2	7.06	87
Date	Feb. 17, 1969	1	8.8	7.2	7.04	86
Weather	Clear	2	8.5	7.3	7.09	86
Air temperature	7.0°C	5	8.0	7.3	7.07	85
Wind direction	—	10	7.9	7.2	7.03	84
speed	0	15	7.9	7.2	6.81	82
Cloud form	SK	20	7.9	7.2	7.03	84
amount	1	30	7.8	7.2	6.96	83
Transparency	6.5 m	40	7.8	7.2	7.02	84

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Smooth	50	7.8	7.3	6.99	84
Mud temperature	7.5°C	60	7.8	7.3	6.97	83
		63	7.7	7.1	6.97	83
		67	7.7	7.1	6.95	83
		(B)	7.6	7.2	6.84	82
Station	Ie-1	0	6.9	7.1	7.29	85
Date	Mar. 17, 1969	1	6.9	7.1	7.24	85
Weather	Cloudy	2	6.9	7.1	7.25	85
Air temperature	7.1°C	5	6.9	7.1	7.27	85
Wind direction	N	10	6.9	7.1	7.24	85
speed	6.5 m/sec.	15	6.9	7.1	7.22	85
Cloud form	S	20	6.9	7.1	7.16	84
amount	10	30	6.9	7.1	7.19	84
Transparency	6.5 m	40	6.9	7.1	7.19	84
Wave	Smooth	50	6.85	7.1	7.19	84
Mud temperature	7.1°C	60	6.85	7.1	7.30	86
		65	6.85	7.1	7.96	93
		73(B)	6.85	7.2	7.08	85
Station	Ie-1	0	12.0	7.2	6.57	87
Date	Apr. 17, 1969	1	12.0	7.2	6.57	87
Weather	Cloudy	2	11.5	7.2	7.02	92
Air temperature	12.0°C	5	9.3	7.2	7.11	88
Wind direction	S	10	9.0	7.1	7.07	87
speed	1.3 m/sec.	15	9.0	7.1	7.17	88
Cloud form	N	20	8.9	7.1	6.71	83
amount	10	30	8.8	7.1	7.12	87
Transparency	5.5 m	40	8.6	7.1	7.06	86
Wave	Smooth	50	8.2	7.0	6.70	81
Mud temperature	8.0°C	60	7.8	7.1	6.81	82
		65	7.7	7.1	6.72	80
		71	7.6	7.0	6.61	79
Station	Ie-1	0	15.9	7.8	6.76	97
Date	May 20, 1969	1	15.9	7.8	6.76	97
Weather	Cloudy	2	15.7	7.8	6.79	97
Air temperature	22°C	5	15.2	7.8	6.79	96
Wind direction	E	10	15.0	7.7	6.90	97
speed	4.0 m/sec.	15	14.9	7.6	6.89	97
Cloud form	KC	20	13.8	7.4	6.92	95
amount	9	30	10.6	7.1	6.91	88
Transparency	5.5 m	40	8.2	7.1	6.83	83

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Smooth	50	7.4	7.1	6.77	80
Mud temperature	9.55°C	60	7.2	7.0	6.44	76
		65(B)	7.2	7.0	6.30	74
Station	Ie-1	0	21.8	8.4	6.64	107
Date	June 16, 1969	1	19.9	8.2	6.73	105
Weather	Cloudy	2	19.1	8.2	6.83	105
Air temperature	22.7°C	5	18.9	8.2	6.77	103
Wind direction	E	10	15.8	7.4	6.47	93
		speed	1.0 m/sec.	15	13.8	7.2
Cloud form	SC	20	11.9	7.1	6.39	84
		amount	10	8.3	7.1	6.86
Transparency	3.5 m	40	7.4	7.0	6.78	80
Wave	Smooth	50	7.0	7.0	6.75	79
		Mud temperature	7.8°C	60	7.1	6.9
		70	7.0	6.9	6.22	73
		74(B)	7.0	6.8	6.21	73
Station	Ie-1	0	25.9	8.4	6.20	108
Date	July 16, 1969	1	25.7	8.4	6.39	110
Weather	Clear	2	24.9	8.4	6.61	113
Air temperature	29°C	5	22.3	8.3	6.76	110
Wind direction	S	10	19.7	7.0	5.27	82
		speed	—	15	17.1	7.0
Cloud form	—	20	15.1	6.9	5.57	79
		amount	0	8.7	6.9	6.37
Transparency	4.4 m	40	7.9	6.9	6.69	80
Wave	Smooth	50	7.3	6.8	6.62	78
		Mud temperature	—	60	7.1	6.8
		70	7.0	6.8	5.27	62
		74(B)	7.0	6.8	4.92	58
Station	Ie-1	0	29.5	7.8	5.48	102
Date	Aug. 12, 1969	1	27.8	7.8	5.53	99
Weather	Clear	2	27.3	7.8	5.59	100
Air temperature	31°C	5	27.1	7.8	5.53	98
Wind direction	—	10	26.5	7.8	5.56	98
		speed	0	15	17.0	7.1
Cloud form	KC	20	13.5	7.0	5.24	71
		amount	2	9.0	7.0	6.18
Transparency	4.6 m	40	8.0	7.0	6.54	79
Wave	Smooth	50	7.5	6.8	6.38	76
		Mud temperature	8.0°C	60	7.3	6.8
		72(B)	7.2	6.6	4.52	53

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Ie-1	0	25.5	7.4	5.12	88
Date	Sept. 12, 1969	1	25.5	7.4	5.10	88
Weather	Clear	2	25.45	7.5	5.16	89
Air temperature	26.2°C	5	25.05	7.5	5.03	86
Wind direction	N	10	24.8	7.5	4.98	85
speed	5.5 m/sec.	15	24.8	7.5	4.96	84
Cloud fom	KC	20	19.1	6.8	4.19	64
amount	3-4	30	11.25	6.8	5.60	73
Transparency	6.8 m	40	8.1	6.8	5.87	71
Wave	Moderate	50	7.6	6.8	5.82	69
Mud trmperature	7.1°C	60	7.35	6.8	5.37	64
		72(B)	7.2	6.7	4.32	51
Station	Ie-1	0	19.4	7.5	5.83	90
Date	Oct. 20, 1969	1	19.2	7.5	5.80	89
Weather	Cloudy	2	18.9	7.5	5.91	90
Air temperature	25.0°C	5	18.8	7.5	5.86	89
Wind direction	—	10	18.7	7.5	5.77	88
speed	0	15	18.5	7.7	5.65	85
Cloud form	SK	20	16.4	7.2	5.24	76
amount	8	30	9.4	6.9	5.25	65
Transparency	6.0 m	40	8.3	6.9	5.39	65
Wave	Smooth	50	7.8	6.8	5.33	64
Mud temperature	7.3°C	60	7.4	6.8	5.09	60
		75(B)	7.3	6.8	3.96	47
Station	Ie-1	0	15.6	7.6	5.83	83
Date	Nov. 17, 1969	1	15.6	7.6	5.91	84
Weather	Cloudy	2	15.6	7.6	5.90	84
Air temperature	17.0°C	5	15.6	7.6	5.87	84
Wind direction	S	10	15.5	7.4	5.91	84
speed	2.5 m/sec.	15	15.5	7.6	5.79	82
Cloud form	N	20	15.5	7.5	5.81	83
amount	10	30	12.6	7.1	4.79	64
Transparency	7.5 m	40	8.7	7.0	5.07	62
Wave	Rippled	50	8.0	7.0	4.54	55
Mud temperature	7.8°C	60	7.6	7.0	4.72	56
		77	7.4	6.8	4.62	55
Station	Ie-1	0	9.8	7.2	6.91	87
Date	Dec. 17, 1969	1	9.8	7.2	6.89	86
Weather	Clear	2	9.7	7.2	6.93	87
Air temperature	7.0°C	5	9.3	7.2	6.80	84

		Depth	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wind direction	S	10	8.9	7.0	6.22	77
speed	2.0 m/sec.	15	8.7	7.0	5.69	70
Cloud form	C, KC	20	8.5	7.0	5.75	70
amount	3	30	8.0	6.9	5.31	64
Transparency	9.8 m	40	7.7	6.9	5.65	68
Wave	Rippled	50	7.7	6.8	5.13	61
Mud temperature	7.3°C	60	7.5	6.8	5.28	63
		71 (B)	7.4	6.8	4.46	53
Station	Nb-2	0	3.1	7.2	8.88	94
Date	Jan. 18, 1969	1	3.0	7.2	8.93	95
Weather	Clear	2.0 (B)	3.1	7.2	8.91	95
Air temperature	4.5°C					
Wind direction	—					
speed	0					
Cloud form	N					
amount	3					
Transparency	1.4 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	4.10	7.4	8.61	94
Date	Jan. 18, 1969	1	4.05	7.4	8.73	95
Weather	Clear	2	3.95	7.4	8.65	94
Air temperature	5.3°C	4 (B)	3.90	7.4	8.73	95
Wind direction	—					
speed	0					
Cloud form	N					
amount	3					
Transparency	2.1 m					
Wave	Smooth					
Mud temperature	5.1°C					
Station	Na-3	0	4.2	7.2	8.60	94
Date	Jan. 18, 1969	1	4.2	7.2	8.68	95
Weather	Clear	1.8 (B)	4.2	7.2	8.68	95
Air temperature	7.8°C					
Wind direction	E					
speed	1.0 m/sec.					
Cloud form	N					
amount	4					
Transparency	1.8 m					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Smooth					
Mud temperature	5.3°C					
Station	Nb-2	0	8.7	7.2	6.90	84
Date	Feb. 18, 1969	1	8.7	7.2	6.88	84
Weather	Cloudy	1.5(B)	8.6	7.2	6.80	83
Air temperature	8.6°C					
Wind direction	SW					
speed	2.0 m/sec.					
Cloud form	N					
amount	10					
Transparency	1.5 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	8.7	7.2	7.31	89
Date	Feb. 18, 1969	1	8.6	7.2	7.29	89
Weather	Cloudy	2	8.5	7.2	7.31	89
Air temperature	9.0°C	3.7(B)	8.4	7.2	7.29	89
Wind direction	SW					
speed	2.0 m/sec.					
Cloud form	N					
amount	10					
Transparency	2.2 m					
Wave	Smooth					
Mud temperature	8.1°C					
Station	Na-3	0	8.7	7.0	6.48	79
Date	Feb. 18, 1969	1	8.7	7.0	6.48	79
Weather	Cloudy	(B)	8.6	7.0	6.70	82
Air temperature	9.2°C					
Wind direction	—					
speed	2.0 m/sec.					
Cloud form	KC					
amount	10					
Transparency	0.8 m					
Wave	—					
Mud temperature	8.3°C					
Station	Nb-2	0	6.9	7.2	7.52	88
Date	Mar. 15, 1969	1	6.9	7.2	7.56	89
Weather	Cloudy	(B)	6.9	7.2	7.49	88
Air temperature	12.4°C					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wind direction	—					
speed	0					
Cloud form	KC					
amount	8					
Transparency	1.0 m					
Wave	Smooth					
Mud temperature	5.8°C					
Station	Nb-5	0	6.5	7.2	7.35	85
Date	Mar. 15, 1969	1	6.5	7.2	7.36	85
Weather	Cloudy	2	6.5	7.2	7.34	85
Air temperature	12.9°C	(B)	6.5	7.2	7.34	85
Wind direction	E					
speed	1.0 m/sec.					
Cloud form	KC					
amount	8					
Transparency	2.6 m					
Wave	Smooth					
Mud temperature	6.1°C					
Station	Na-3	0	6.9	7.1	6.99	82
Date	Mar. 15, 1969	1	6.9	7.1	7.08	83
Weather	Cloudy	(B)	6.8	7.1	7.12	83
Air temperature	11.4°C					
Wind direction	E					
speed	2.5 m/sec.					
Cloud form	KC					
amount	8					
Transparency	1.5 m					
Wave	Smooth					
Mud temperature	6.2°C					
Station	Nb-2	0	11.7	7.3	6.79	89
Date	Apr. 18, 1969	1	11.7	7.3	6.84	90
Weather	Clear	2(B)	11.6	7.4	6.90	90
Air temperature	14.6°C					
Wind direction	SW					
speed	1.0 m/sec.					
Cloud form	SK					
amount	3					
Transparency	1.8 m					
Wave	Smooth					
Mud temperature	12°C					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Nb-5	0	12.8	7.3	6.85	92
Date	Apr. 18, 1969	1	11.7	7.3	6.89	90
Weather	Clear	2	11.4	7.3	6.88	90
Air temperature	15.5°C	3.7 (B)	11.4	7.3	6.82	89
Wind direction	S					
speed	0					
Cloud form	SK					
amount	3					
Transparency	—					
Wave	Smooth					
Mud temperature	—					
Station	Na-3	0	13.1	7.2	6.59	89
Date	Apr. 18, 1969	1	13.1	7.2	6.58	89
Weather	Clear	2(B)	13.0	7.3	6.75	91
Air temperature	15.8°C					
Wind direction	SE					
speed	2.0 m/sec.					
Cloud form	SK					
amount	3					
Transparency	1.7 m					
Wave	Smooth					
Mud temperature	13.0°C					
Station	Nb-2	0	18.9	7.2	5.52	84
Date	May 17, 1969	1	18.2	7.2	5.66	85
Weather	Rain	2(B)	18.1	7.2	5.86	88
Air temperature	20°C					
Wind direction	E					
speed	1.3 m/sec.					
Cloud form	N					
amount	10					
Transparency	1.5 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	19.1	7.6	6.20	95
Date	May 17, 1969	1	19.05	7.6	6.21	95
Weather	Rain	2	19.05	7.6	6.22	95
Air temperature	20°C	(B)	18.8	7.4	6.13	93
Wind direction	NE					
speed	3.5 m/sec.					
Cloud form	N					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
amount	10					
Transparency	2.2 m					
Wave	Smooth					
Mud temperature	16.4°C					
Station	Na-3	0	20.0	7.2	5.33	83
Date	May 17, 1969	1	20.0	7.2	5.19	81
Weather	Rain	(B)	19.9	7.2	5.08	79
Air temperature	21°C					
Wind direction	W					
speed	—					
Cloud form	N					
amount	10					
Transparency	1.7 m					
Wave	Smooth					
Mud temperature	19.4°C					
Station	Nb-2	0	21.8	7.8	6.29	101
Date	June 18, 1969	1	21.7	7.8	6.10	98
Weather	Cloudy	1.8 (B)	21.6	7.8	6.17	99
Air temperature	—					
Wind direction	SW					
speed	—					
Cloud form	SC					
amount	10					
Transparency	1.0 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	21.4	8.0	6.23	100
Date	June 18, 1969	1	21.4	8.0	6.22	100
Weather	Cloudy	2	21.3	8.0	6.23	100
Air temperature	24°C	4 (B)	21.1	7.2	4.94	79
Wind direction	SW					
speed	—					
Cloud form	SC					
amount	10					
Transparency	2.2 m					
Wave	Smooth					
Mud temperature	19.6°C					
Station	Na-3	0	21.7	7.1	4.87	78
Date	June 18, 1969	1	21.6	7.1	4.86	78

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Weather	Cloudy	2.15(B)	21.1	6.8	3.58	57
Air temperature	24°C					
Wind direction	SW					
speed	—					
Cloud form	SC					
amount	10					
Transparency	2.15 m					
Wave	—					
Mud temperature	21.1°C					
Station	Nb-2	0	24.9	7.2	6.22	106
Date	July 14, 1969	1	22.8	7.4	6.40	105
Weather	Clear	2.7(B)	20.6	6.8	4.68	74
Air temperature	27°C					
Wind direction	SSW					
speed	1.5 m/sec.					
Cloud form	C					
amount	4					
Transparency	1.2 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-5	0	25.2	7.6	6.22	107
Date	July 14, 1969	1	22.7	7.6	6.19	101
Weather	Clear	2	22.2	7.4	6.07	99
Air temperature	28°C	5(B)	21.5	7.2	5.78	93
Wind direction	NW					
speed	—					
Cloud form	C					
amount	4					
Transparency	1.2 m					
Wave	Smooth					
Mud temperature	21.8°C					
Station	Na-3	0	26.0	8.0	6.78	118
Date	July 14, 1969	1	24.7	8.0	6.54	111
Weather	Clear	2.9(B)	22.2	7.6	6.28	102
Air temperature	30°C					
Wind direction	E					
speed	—					
Cloud form	C					
amount	4					
Transparency	1.8 m					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wave	Smooth					
Mud temperature	22.2°C					
Station	Nb-2	0	28.2	7.6	5.30	96
Date	Aug. 13, 1969	1	28.2	7.6	5.33	97
Weather	Clear	2(B)	28.2	7.6	5.27	95
Air temperature	30.8°C					
Wind direction	SW					
speed	5.0 m/sec.					
Cloud form	—					
amount	1					
Transparency	1.1 m					
Wave	Rippled					
Mud temperature	—					
Station	Nb-5	0	28.5	7.6	5.21	95
Date	Aug. 13, 1969	1	28.5	7.6	5.24	95
Weather	Clear	2	28.5	7.6	5.18	94
Air temperature	31°C	4(B)	28.0	7.6	5.16	93
Wind direction	SW					
speed	5.0 m/sec.					
Cloud form	—					
amount	1					
Transparency	2.9 m					
Wave	Gentle					
Mud temperature	27°C					
Station	Na-3	0	29.0	7.8	5.44	100
Date	Aug. 13, 1969	1	29.0	7.8	5.40	99
Weather	Clear	2(B)	28.9	7.6	5.13	94
Air temperature	32°C					
Wind direction	SW					
speed	5.0 m/sec.					
Cloud form	—					
amount	1					
Transparency	1.5 m					
Wave	—					
Mud temperature	28.5°C					
Station	Nb-2	0	25.1	7.5	5.13	88
Date	Sept. 13, 1969	1	24.7	7.4	5.19	88
Weather	Clear	2(B)	24.1	7.3	4.93	83
Air temperature	25.0°C					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Wind direction	NNE					
speed	1.5 m/sec.					
Cloud form	KC					
amount	1					
Transparency	0.6 m					
Wave	Smooth					
Mud temperature	24.2°C					
Station	Nb-5	0	25.3	7.4	5.10	87
Date	Sept. 13, 1969	1	25.3	7.4	5.08	87
Weather	Clear	2	24.9	7.5	5.19	88
Air temperature	26.0°C	4.1(B)	24.9	7.4	4.89	83
Wind direction	NE					
speed	1.0 m/sec.					
Cloud form	KC					
amount	1					
Transparency	2.0 m					
Wave	Smooth					
Mud temperature	25.0°C					
Station	Na-3	0	25.1	7.5	5.28	90
Date	Sept. 13, 1969	1	24.7	7.4	5.30	90
Weather	Clear	2(B)	24.1	7.3	5.40	91
Air temperature	27°C					
Wind direction	E					
speed	1.0 m/sec.					
Cloud form	KC					
amount	1					
Transparency	1.8 m					
Wave	Smooth					
Mud temperature	—					
Station	Nb-2	0	18.5	7.8	6.06	92
Date	Oct. 21, 1969	1	18.5	7.8	6.05	92
Weather	Cloudy	1.7(B)	18.5	7.8	6.04	91
Air temperature	20.9°C					
Wind direction	E					
speed	2.3 m/sec.					
Cloud form	SC, N					
amount	10					
Transparency	1.2 m					
Wave	Rippled					
Mud temperature	—					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
Station	Nb-5	0	18.5	7.5	5.67	86
Date	Oct. 21, 1969	1	18.5	7.5	5.72	87
Weather	Cloudy	2	18.5	7.4	5.69	86
Air temperature	21.6°C	4(B)	18.3	7.4	5.67	86
Wind direction	E					
speed	1.5 m/sec.					
Cloud form	SC, N					
amount	10					
Transparency	2.2 m					
Wave	Rippled					
Mud temperature	19.0°C					
Station	Na-3	0	18.6	7.3	5.51	84
Date	Oct. 21, 1969	1	18.6	7.3	5.48	83
Weather	Cloudy	1.8(B)	18.6	7.3	5.31	81
Air temperature	21.6°C					
Wind direction	E					
speed	2.5 m/sec.					
Cloud form	SC, N					
amount	10					
Transparency	1.6 m					
Wave	Rippled					
Mud temperature	19.1°C					
Station	Nb-2	0	12.5	7.6	5.99	80
Date	Nov. 18, 1969	1	12.5	7.6	5.96	79
Weather	Clear	1.5(B)	12.5	7.6	5.98	80
Air temperature	10.1°C					
Wind direction	SW					
speed	7.0 m/sec.					
Cloud form	SK					
amount	3					
Transparency	0.4 m					
Wave	Moderate					
Mud temperature	12.0°C					
Station	Nb-5	0	14.0	7.6	5.90	81
Date	Nov. 18, 1969	1	14.0	7.6	5.90	81
Weather	Clear	2	14.0	7.6	5.88	81
Air temperature	11.0°C	3.8(B)	14.0	7.4	5.42	75
Wind direction	SW					
speed	7.5 m/sec.					
Cloud form	SK					

		Depth(m)	Temp.(°C)	pH	O ₂ (cc/l)	O ₂ (%)
amount	2					
Transparency	2.0 m					
Wave	Moderate					
Mud temperature	14.2°C					
Station	Na-3	0	12.6	7.6	6.03	81
Date	Nov. 18, 1969	1	12.6	7.6	6.05	81
Weather	Clear	1.7 (B)	12.6	7.5	5.97	80
Air temperature	10.3°C					
Wind direction	SW					
speed	6.5 m/sec.					
Cloud form	KC					
amount	3					
Transparency	1.5 m					
Wave	—					
Mud temperature	13.9°C					