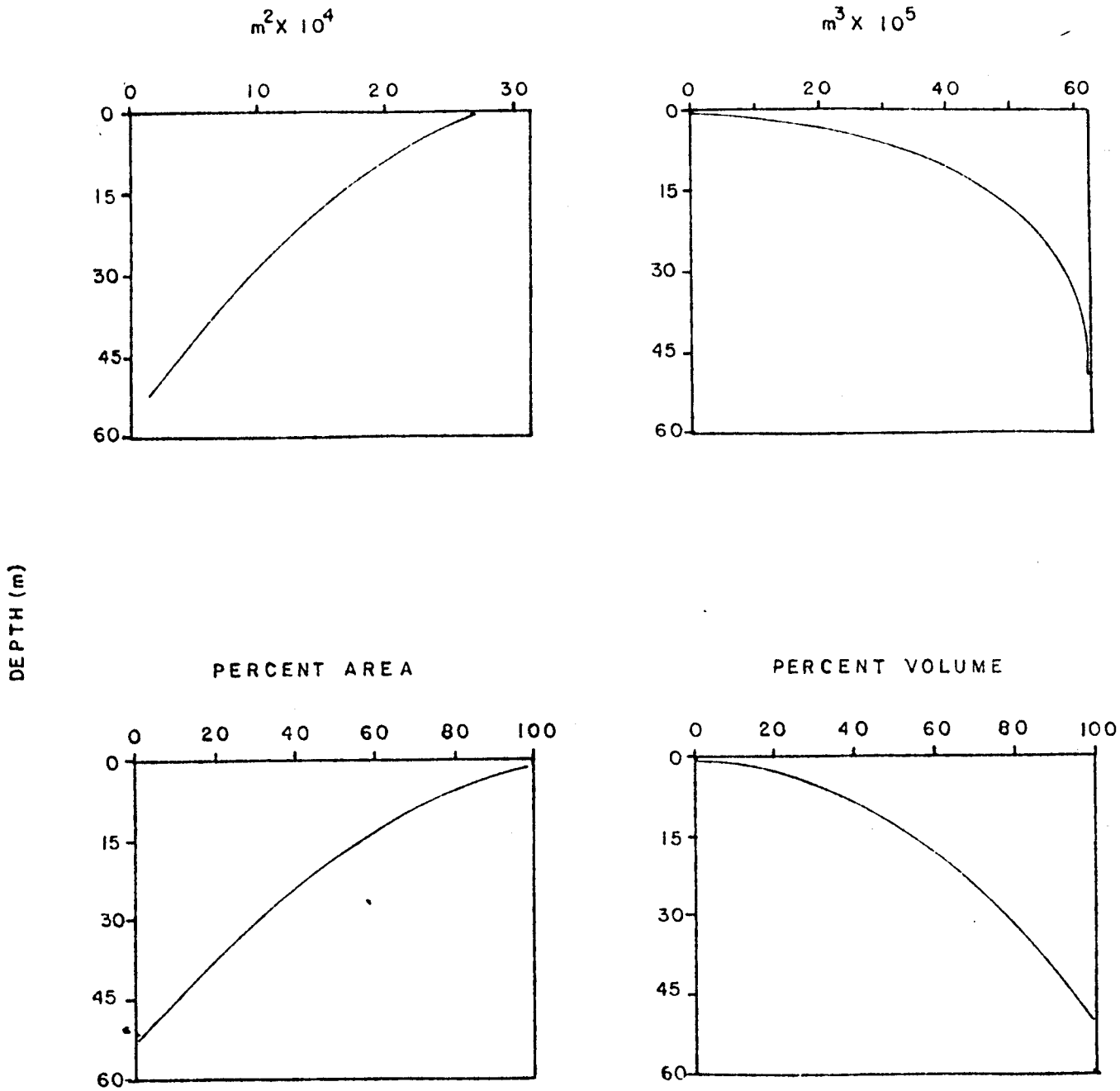
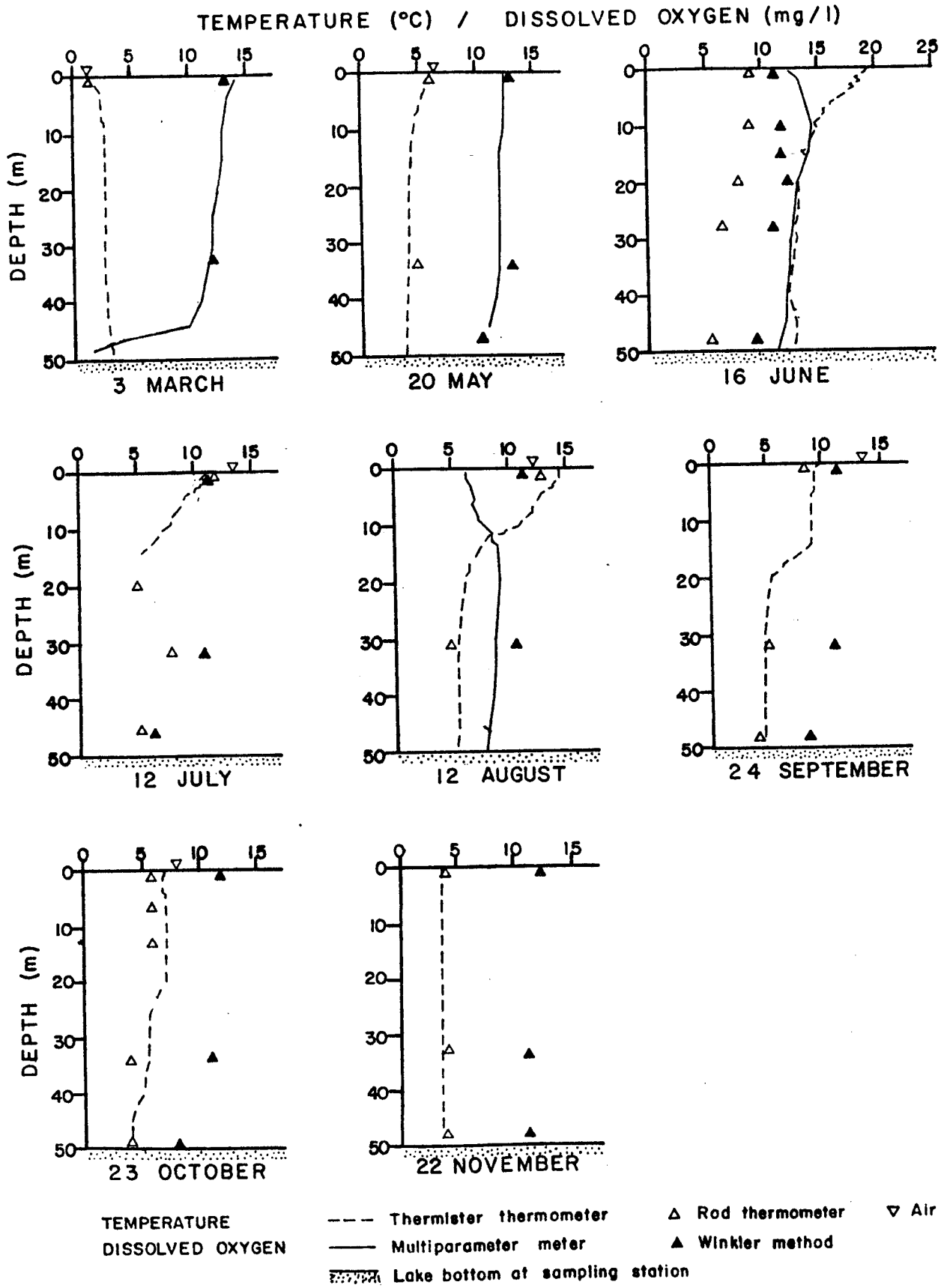
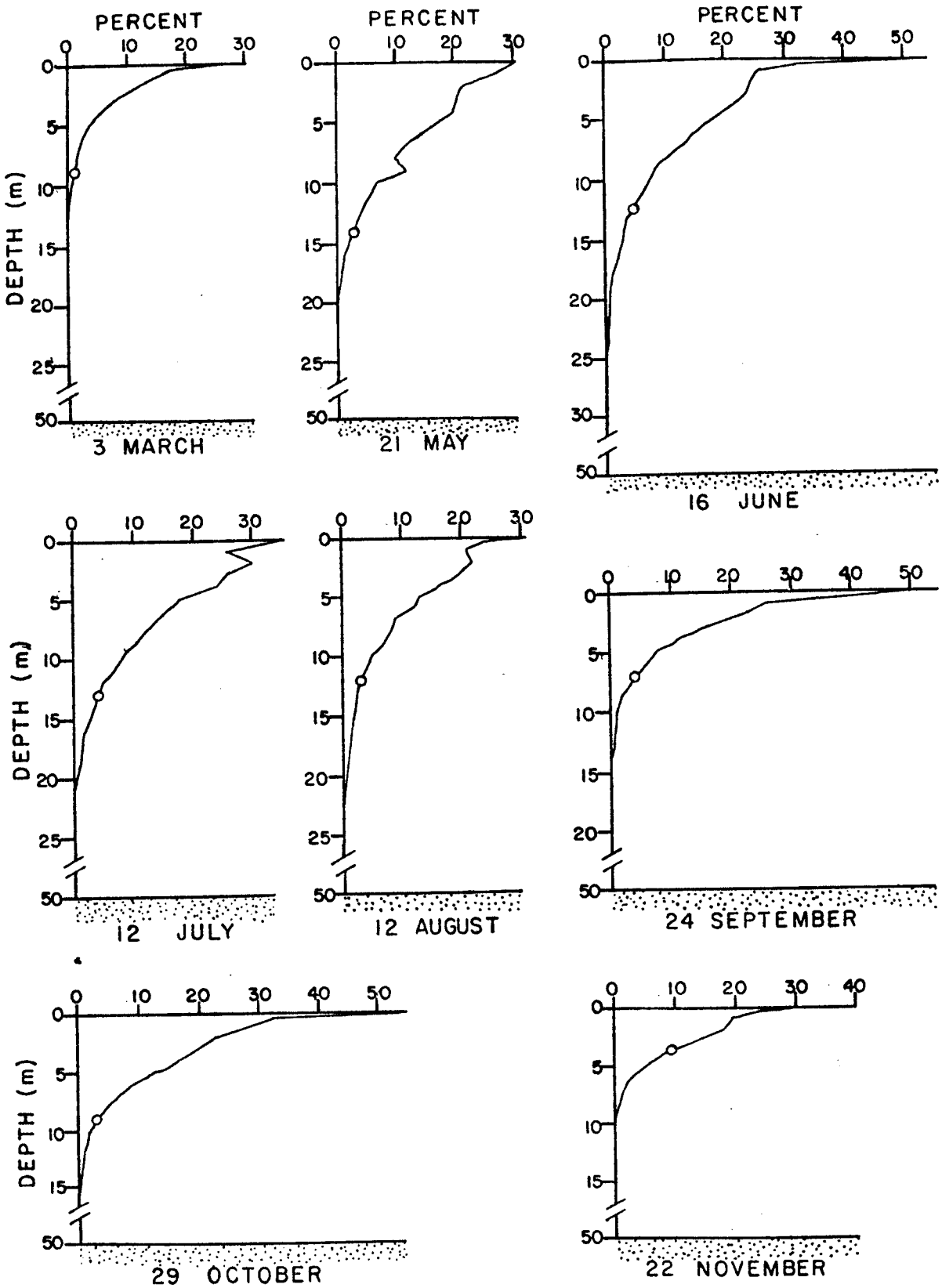
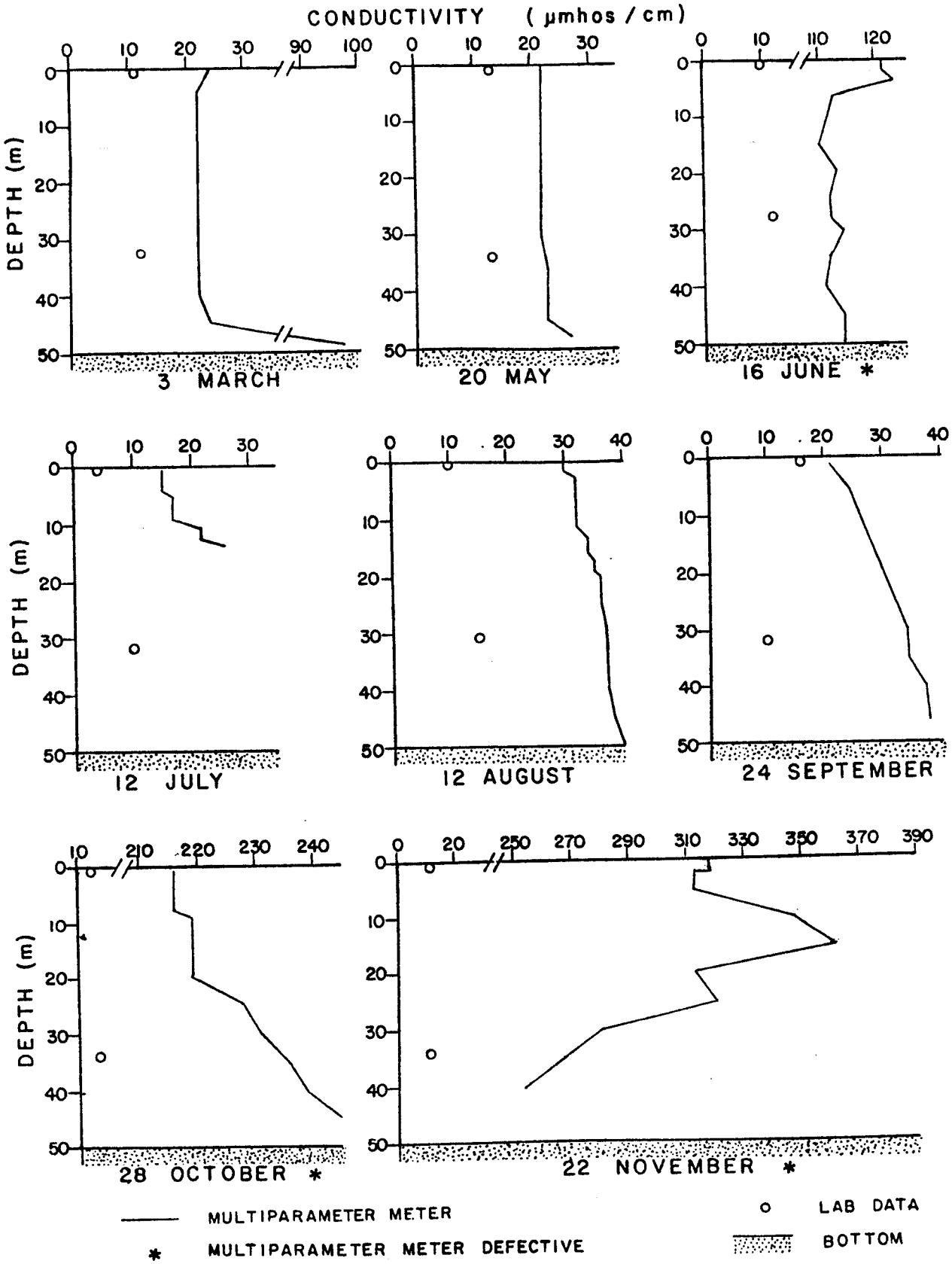
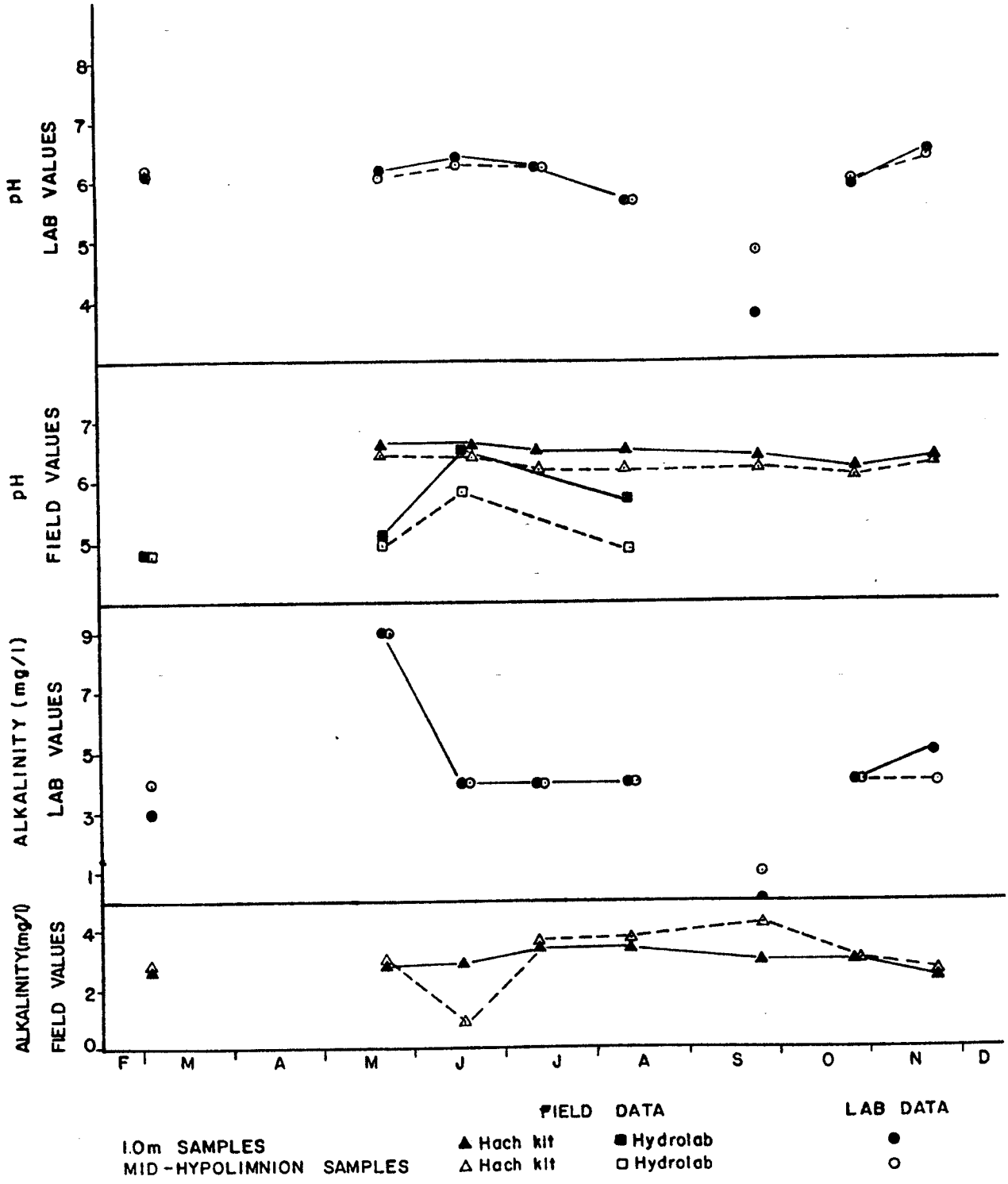


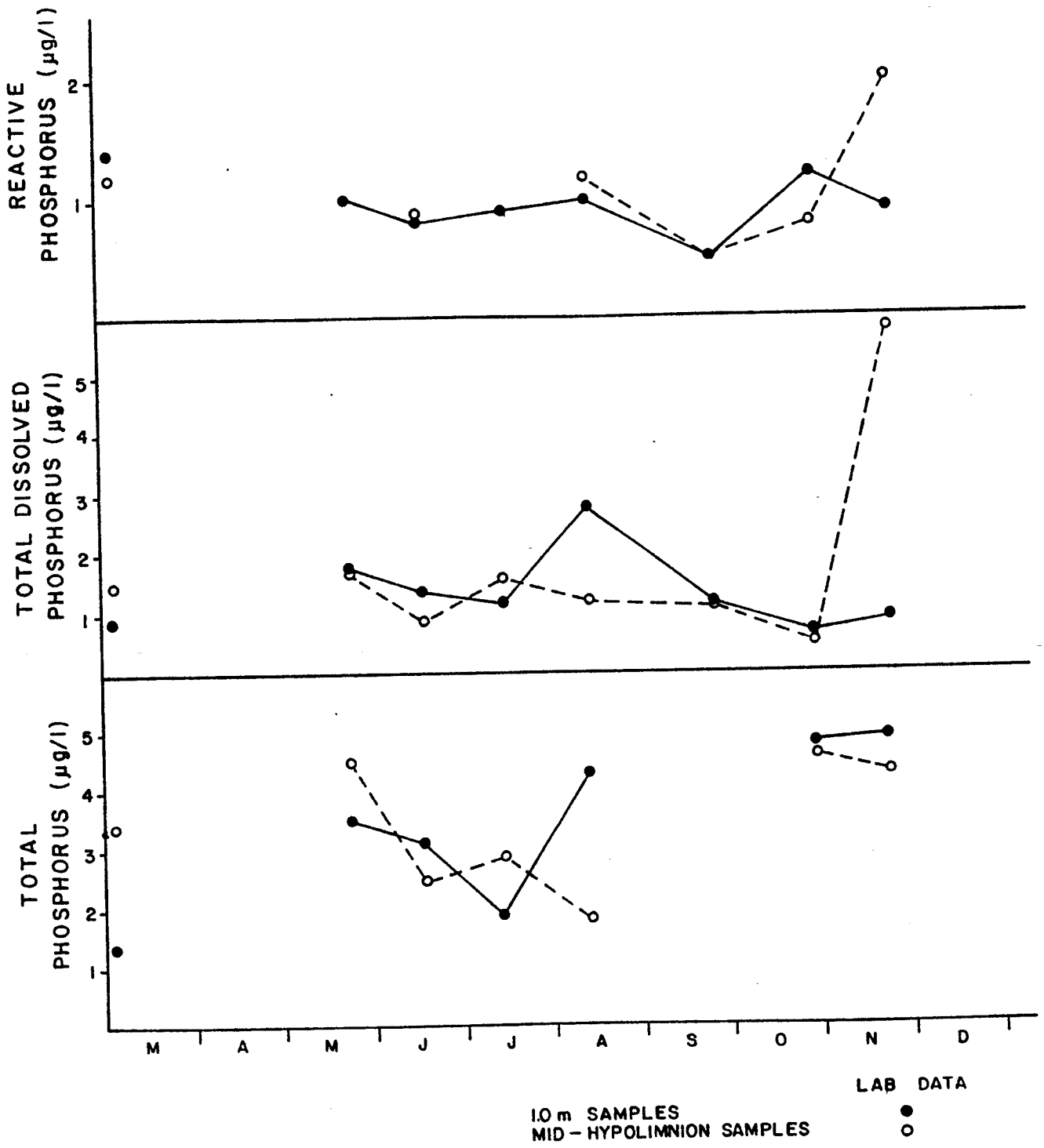
Figure 63. Hypsographic (depth-area) curves and depth-volume curves of "Lake A" on stream 109-10-023, Deep Cove.


TEMPERATURE (°C) / DISSOLVED OXYGEN (mg/l)
DEPTH (m)
3 MARCH
20 MAY
16 JUNE
12 JULY
12 AUGUST
24 SEPTEMBER
23 OCTOBER
22 NOVEMBER
TEMPERATURE
DISSOLVED OXYGEN
Thermister thermometer
Multiparameter meter
Rod thermometer
Winkler method
Air
Lake bottom at sampling station

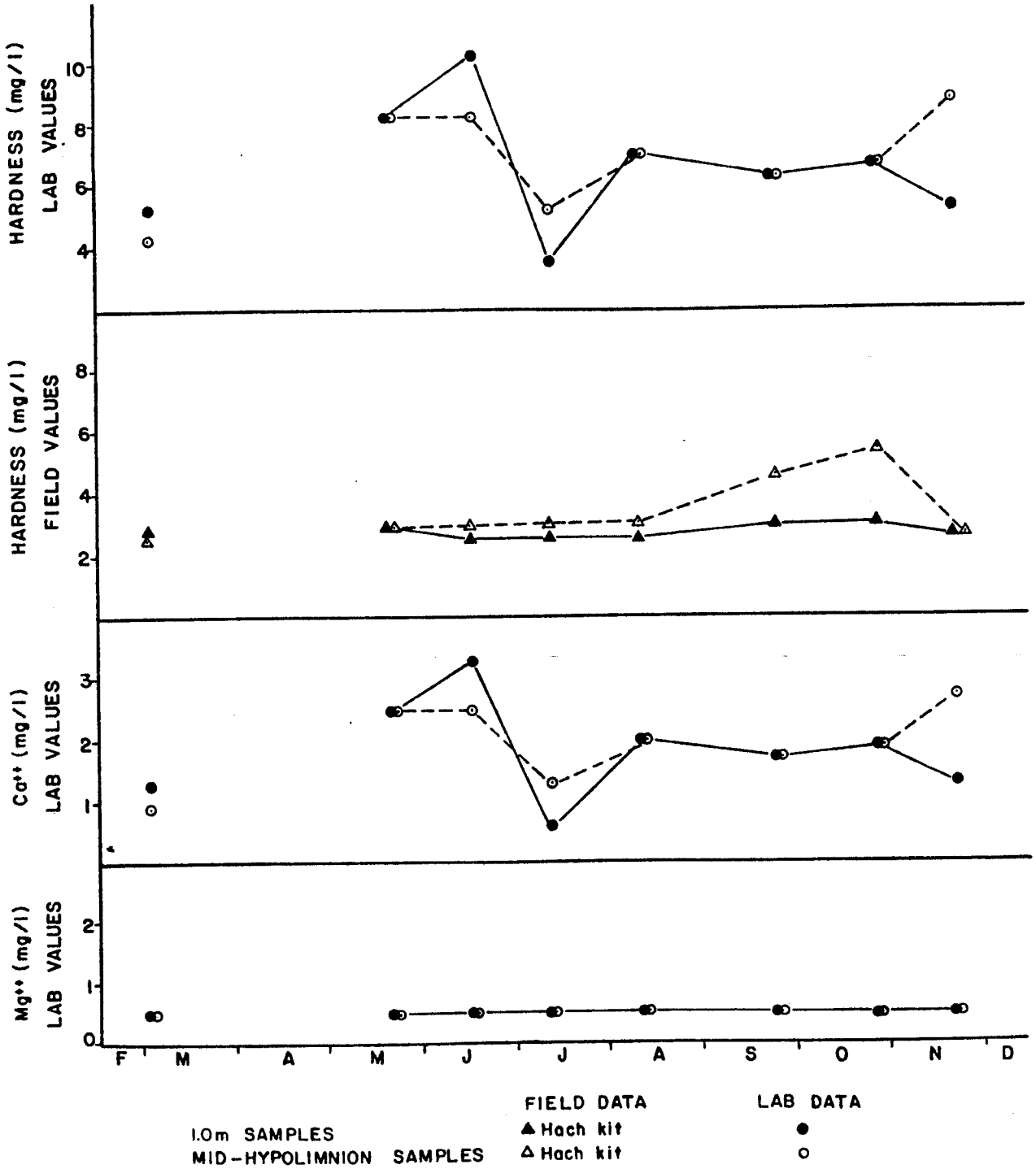

PERCENT
DEPTH (m)
3 MARCH
21 MAY
16 JUNE
12 JULY
12 AUGUST
24 SEPTEMBER
29 OCTOBER
22 NOVEMBER
SECCHI DISC
ILLUMINANCE METER
BOTTOM


CONDUCTIVITY (µmhos / cm)
DEPTH (m)
3 MARCH
20 MAY
16 JUNE *
12 JULY
12 AUGUST
24 SEPTEMBER
28 OCTOBER *
22 NOVEMBER *
MULTIPARAMETER METER
MULTIPARAMETER METER DEFECTIVE
LAB DATA
BOTTOM

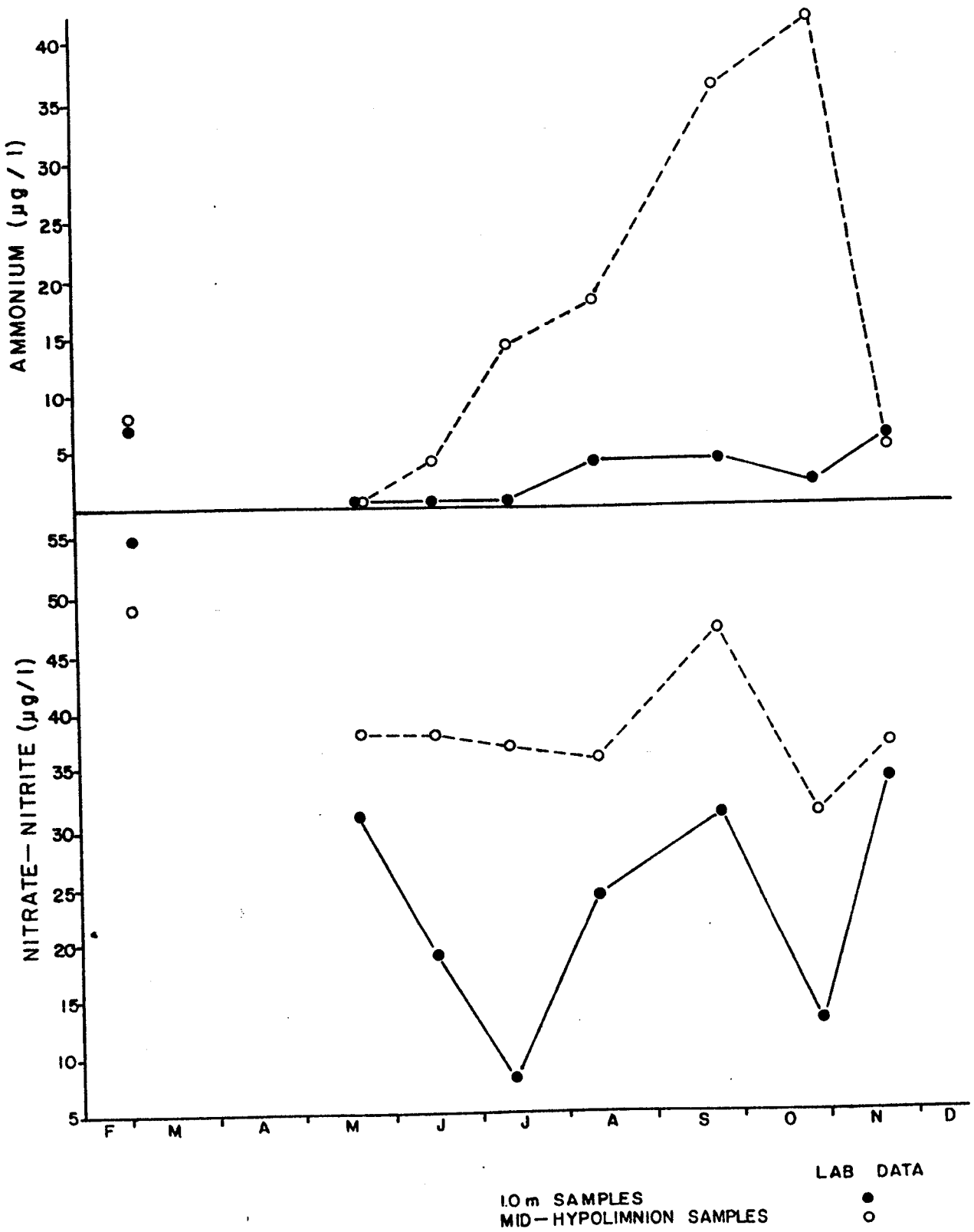

pH
LAB VALUES
8
7
6
5
4
pH
FIELD VALUES
7
6
5
ALKALINITY (mg/l)
LAB VALUES
9
7
5
3
1
ALKALINITY(mg/l)
FIELD VALUES
4
2
0
F
M
A
M
J
J
A
S
O
N
D
FIELD DATA
LAB DATA
1.0m SAMPLES
MID-HYPOLIMNION SAMPLES
▲ Hach kit
△ Hach kit
■ Hydrolab
□ Hydrolab
●
○


REACTIVE PHOSPHORUS (µg/l)
TOTAL DISSOLVED PHOSPHORUS (µg/l)
TOTAL PHOSPHORUS (µg/l)
M
A
M
J
J
A
S
O
N
D
LAB DATA
1.0 m SAMPLES
MID – HYPOLIMNION SAMPLES

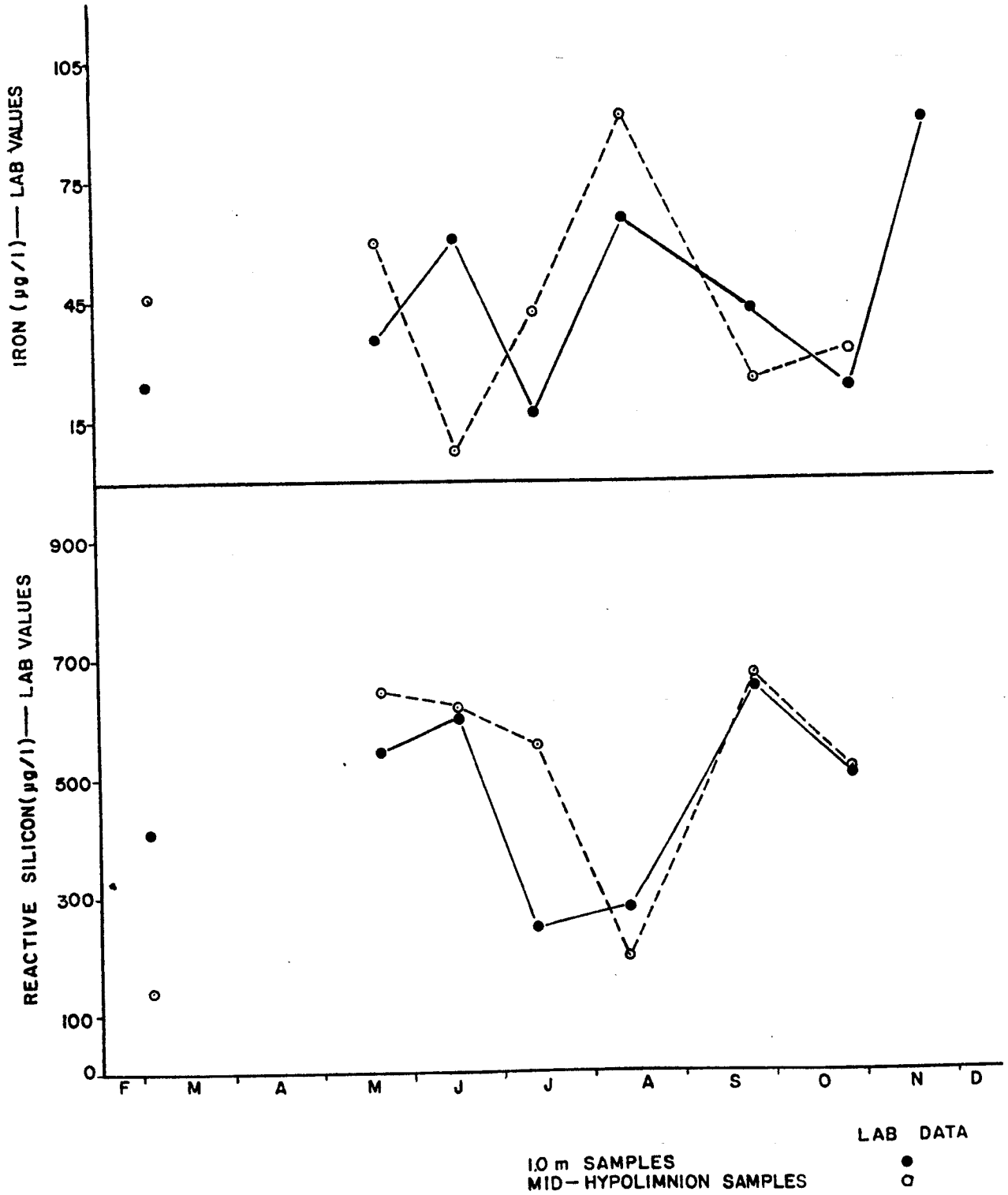
[illegible] lake [illegible] 1981.

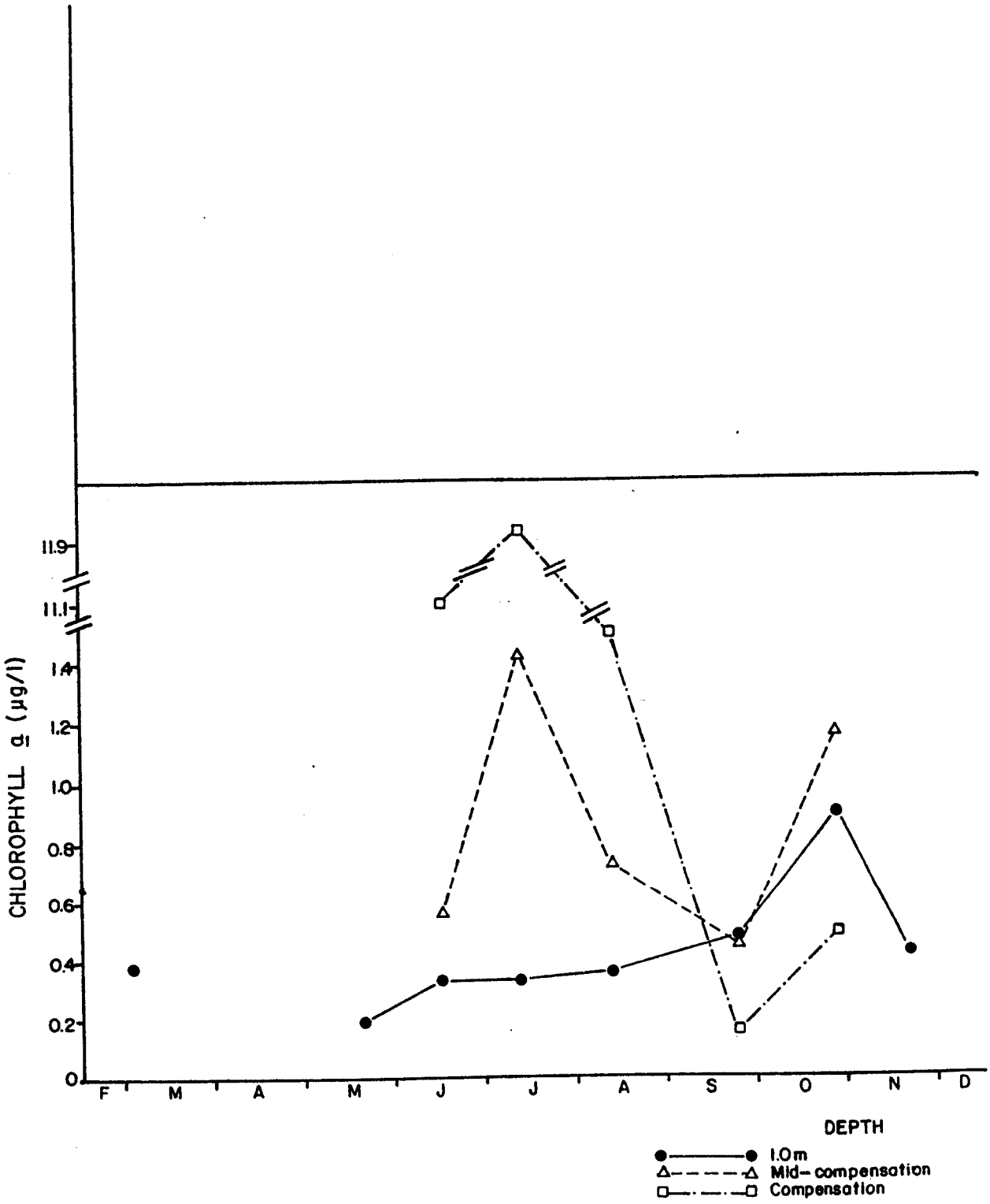


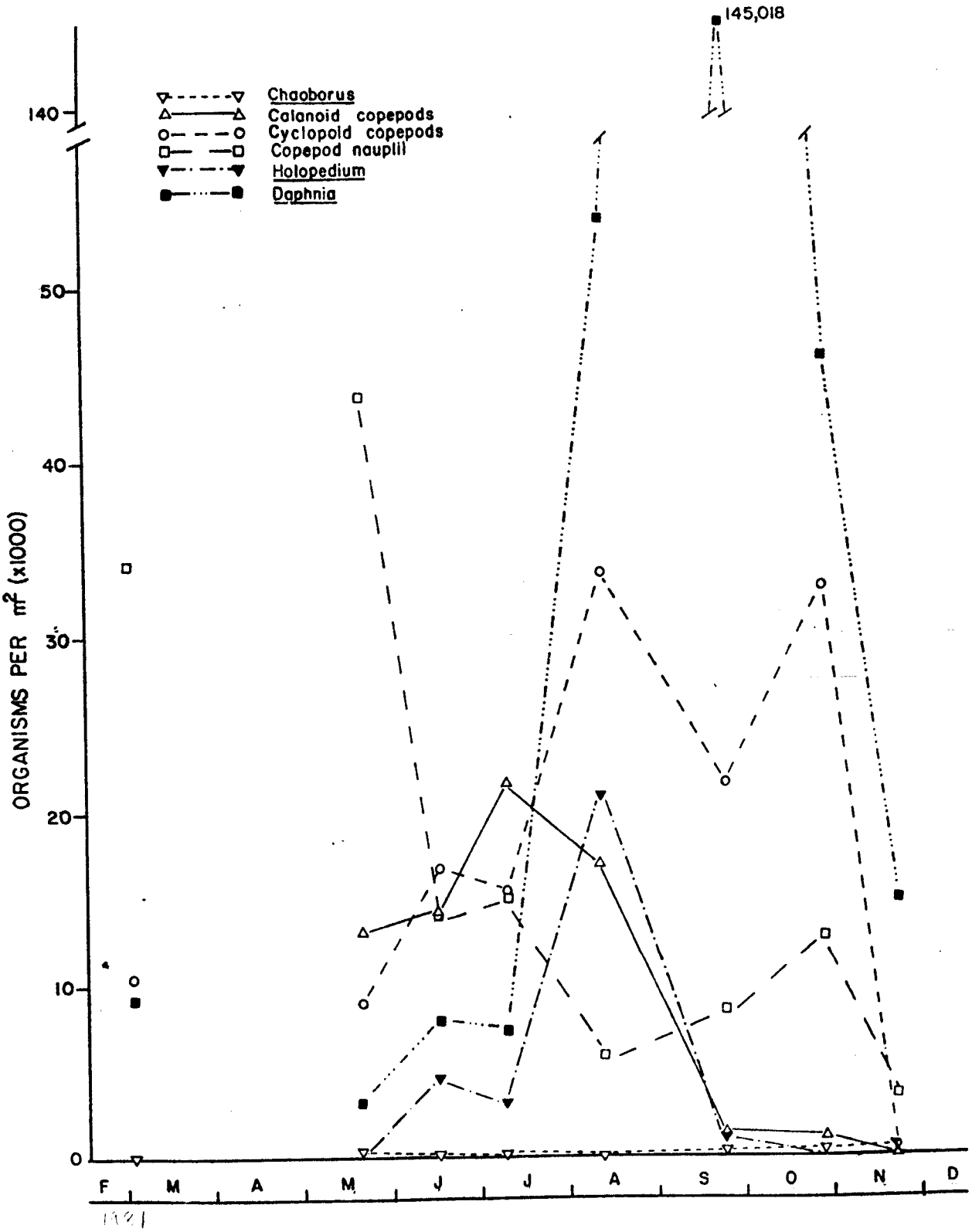
[illegible] station; 1981


AMMONIUM (µg / l)
40
35
30
25
20
15
10
5
NITRATE— NITRITE (µg/l)
55
50
45
40
35
30
25
20
15
10
5
F
M
A
M
J
J
A
S
O
N
D
LAB DATA
1.0 m SAMPLES
MID—HYPOLIMNION SAMPLES

[illegible] lake on [illegible]


IRON (µg/l) — LAB VALUES
105
75
45
15
REACTIVE SILICON (µg/l) — LAB VALUES
900
700
500
300
100
0
F
M
A
M
J
J
A
S
O
N
D
LAB DATA
1.0 m SAMPLES
MID-HYPOLIMNION SAMPLES


CHLOROPHYLL a (µg/l)
11.9
11.1
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0
F
M
A
M
J
J
A
S
O
N
D
DEPTH
1.0m
Mid-compensation
Compensation



Unnamed Lake on stream 109-10-023; zooplankton densities at X, sampling station; 1981

Table 13. Zooplankton density in "Lake A" on stream 109-10-23, Deep Cove, in terms of number per m^2 and (per m^3) as estimated from vertical-tow samples, 1981.

Sample date	Tow Depth (m)	Sum of large and preferred zooplankters 2/	Diptera		Copepoda			Cladocera	
			Chaoborus 2/	Chironomidae	Calanoida	Cyclopoida	Nauplii	Daphnia	Holopedium
3 Mar 1/	47.0	9,272 (197)	176 (4)	10 (<1)	0 (0)	10,444 (222)	34,047 (724)	9,086 (194)	0 (0)
21 May	47.0	16,694 (355)	392 (8)	0 (0)	12,990 (276)	8,915 (190)	43,556 (927)	3,311 (70)	0 (0)
16 June	48.0	22,384 (467)	138 (3)	0 (0)	14,264 (297)	16,643 (347)	13,923 (290)	7,983 (166)	4,585 (96)
10 July	44.0	29,185 (621)	148 (3)	0 (0)	21,396 (455)	15,283 (325)	14,773 (314)	7,641 (163)	3,057 (65)
12 Aug	47.0	70,937 (1,509)	46 (1)	0 (0)	16,979 (361)	33,535 (714)	5,945 (126)	53,912 (1,147)	20,800 (443)
23 Sept	47.0	146,974 (3,127)	428 (9)	0 (0)	1,528 (33)	21,396 (455)	8,319 (177)	145,018 (3,085)	1,274 (27)
28 Oct	47.0	47,713 (1,015)	591 (13)	0 (0)	1,274 (27)	32,690 (696)	12,736 (271)	45,848 (975)	0 (0)
22 Nov	47.0	15,563 (331)	621 (13)	0 (0)	168 (4)	678 (14)	3,566 (76)	14,773 (314)	0 (0)

1/ Mean of two samples.

2/ Density values exclude early instar Chaoborus. Recounts and reestimates of Chaoborus densities, including early instars, are being made.