Table . Physical characteristics of Osprey Lake.

Lake area 95.4 ha (235.7 acres) Lake elevation 58 m

Lake volume 5.70×10^7 m^3 (4.62×10^4 acre-feet)

Maximum depth 118 m Mean depth 59.7 m

Shoreline length 5,828 m Shoreline development 1.68

Watershed area 825 ha Volume development 1.52

Ratio of lake area to watershed area 1:8.5

Littoral development (area <10 m) 11.1%

Basin slope (0-10 m) W 52.8%, E 34.7%; (10-118 m) W 29.3%;

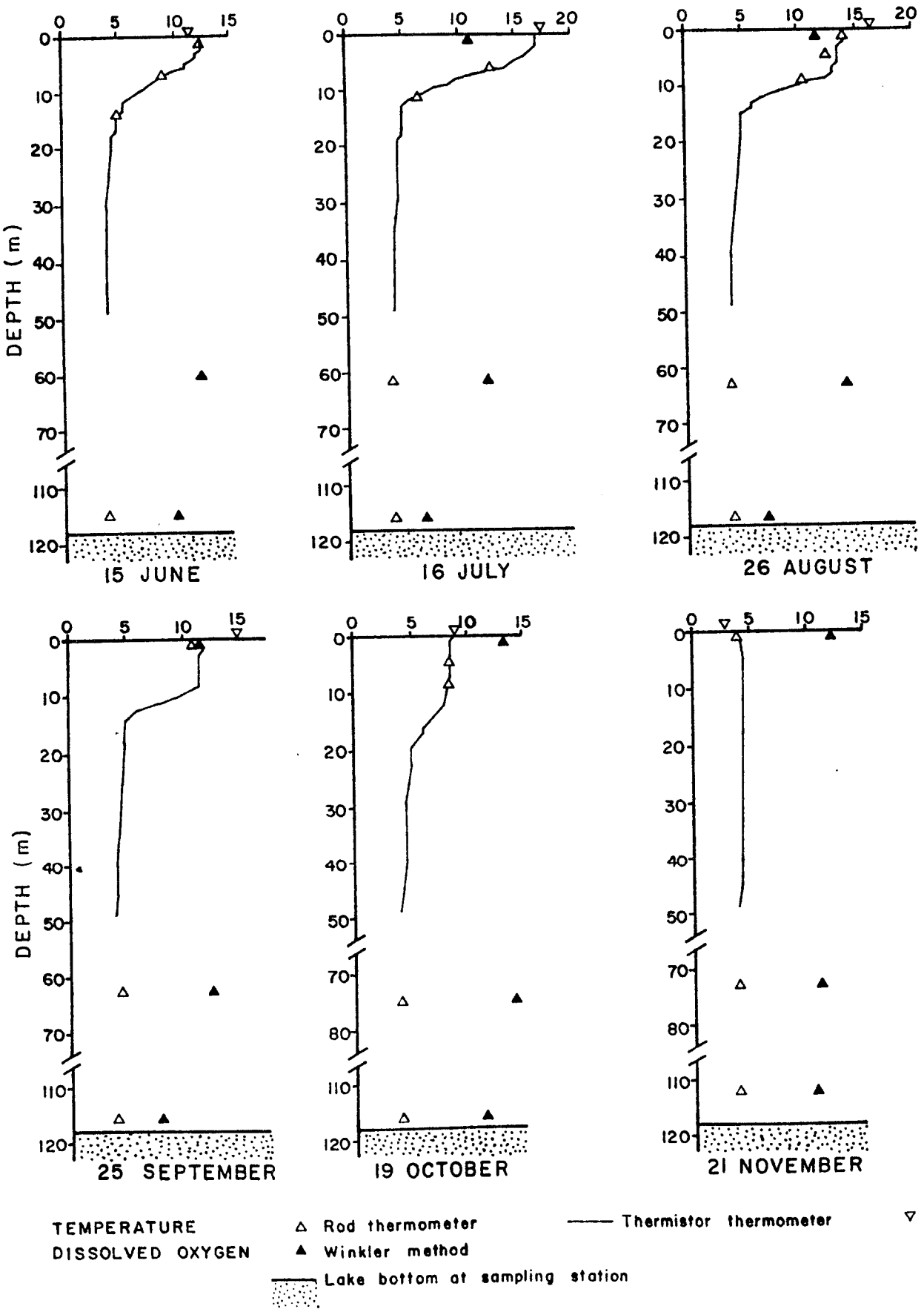
(10-35 m) E 23.8%

Mean annual outlet flow 1.29 m^3/s Mean annual precipitation 560 cm

Theoretical water residence time 1.4 years

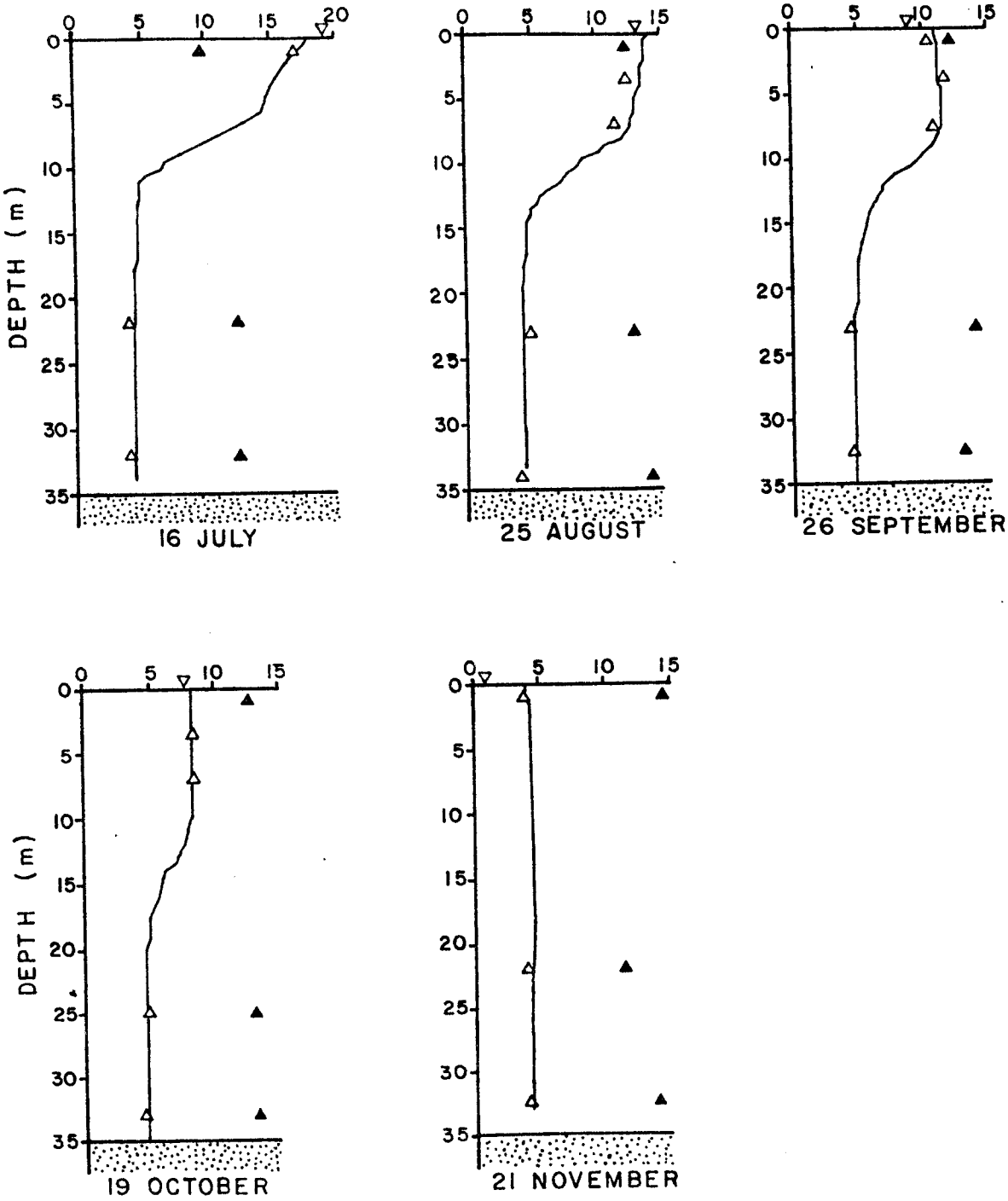
Depth strata (m)	Area of strata as a percentage of total area	Volume of strata as a percentage of total area
0- 5	6.9	8.1
5- 10	4.2	7.6
10- 20	7.1	14.3
20- 30	8.4	13.0
30- 40	9.0	11.5
40- 50	7.2	10.2
50- 60	10.3	8.7
60- 70	8.3	7.1
70- 80	5.2	6.0
80- 90	5.3	5.2
90-100	5.5	4.3
100-110	7.0	3.2
110-118	14.7	0.9
118	1.0	---

TEMPERATURE (°C) & DISSOLVED OXYGEN (mg/L)



Lake X, sampling station, 1982.

TEMPERATURE (°C) & DISSOLVED OXYGEN (mg/L)

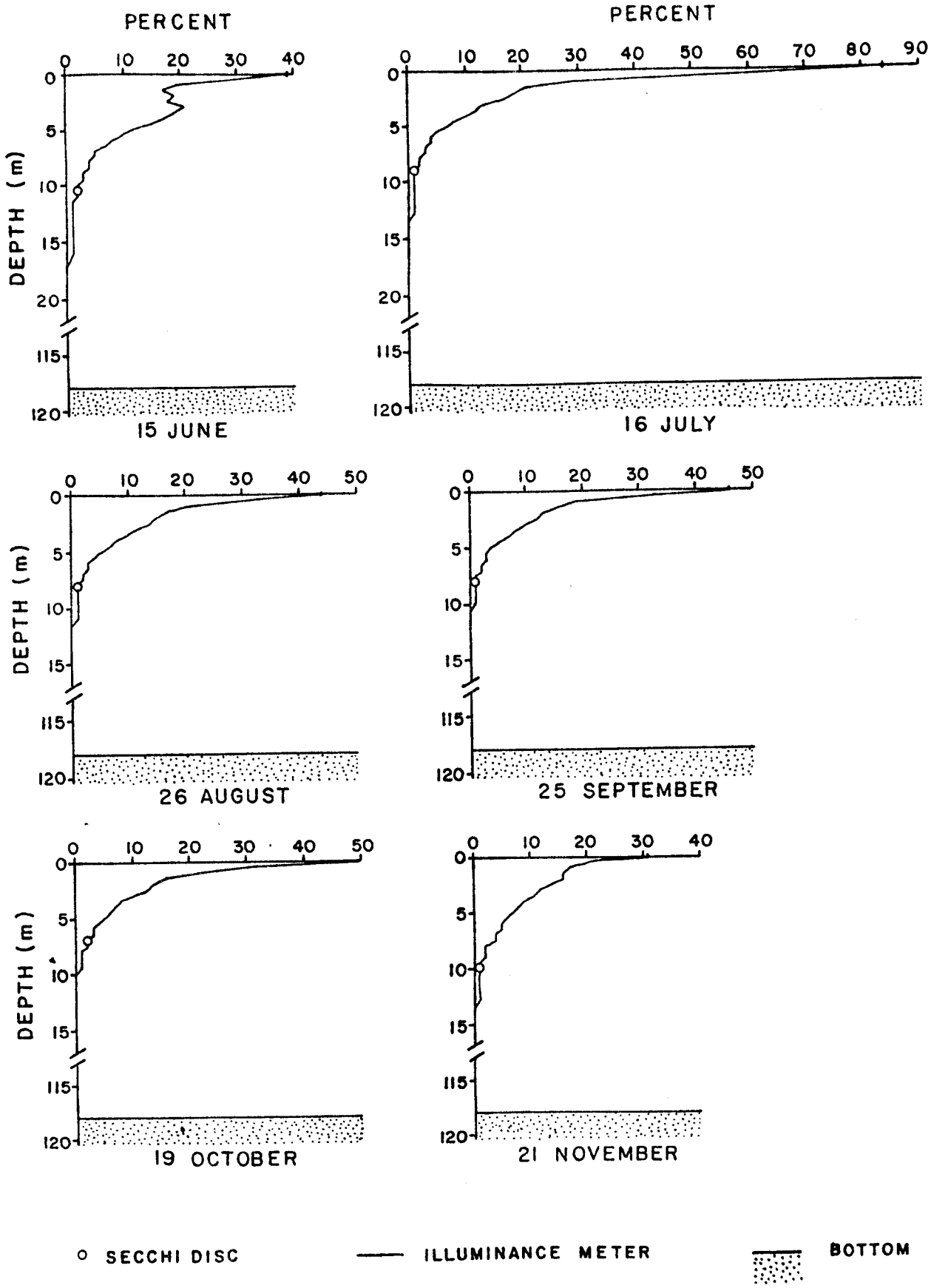


TEMPERATURE △ Rod thermometer —— Thermistor thermometer ▽ Air

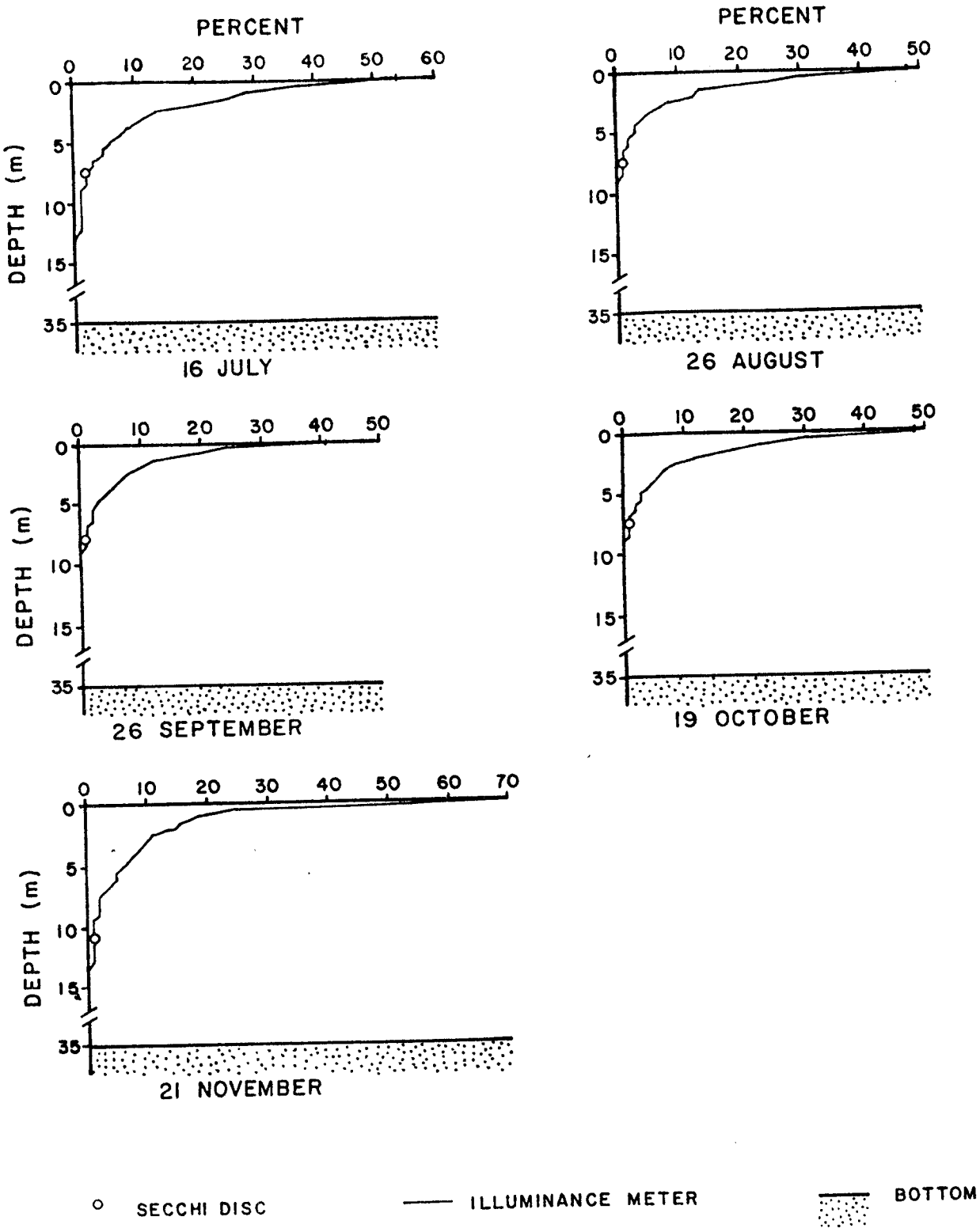
DISSOLVED OXYGEN ▲ Winkler method

Lake bottom at sampling station

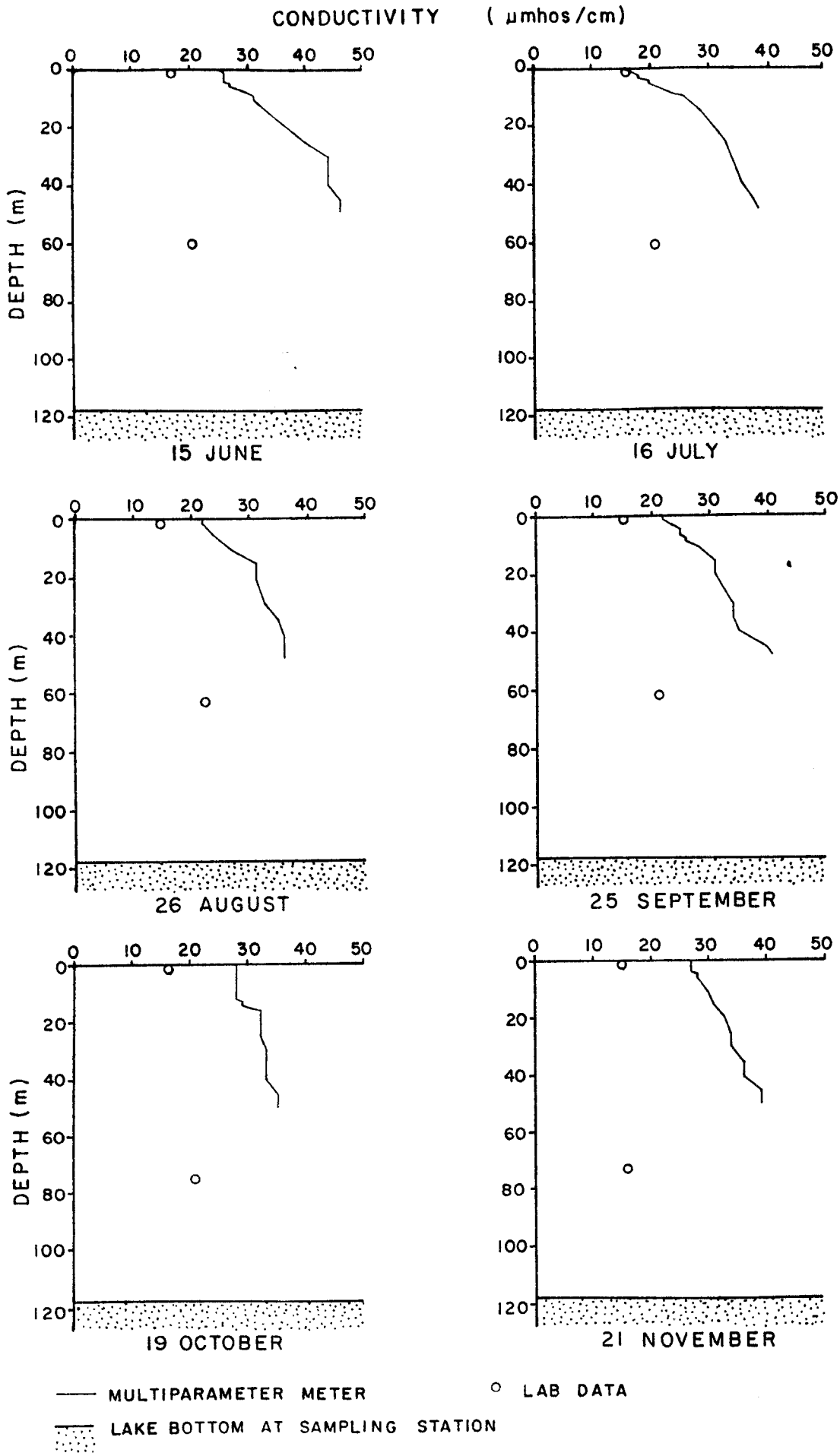
Osprey Lake; X_2 sampling station. 1973.



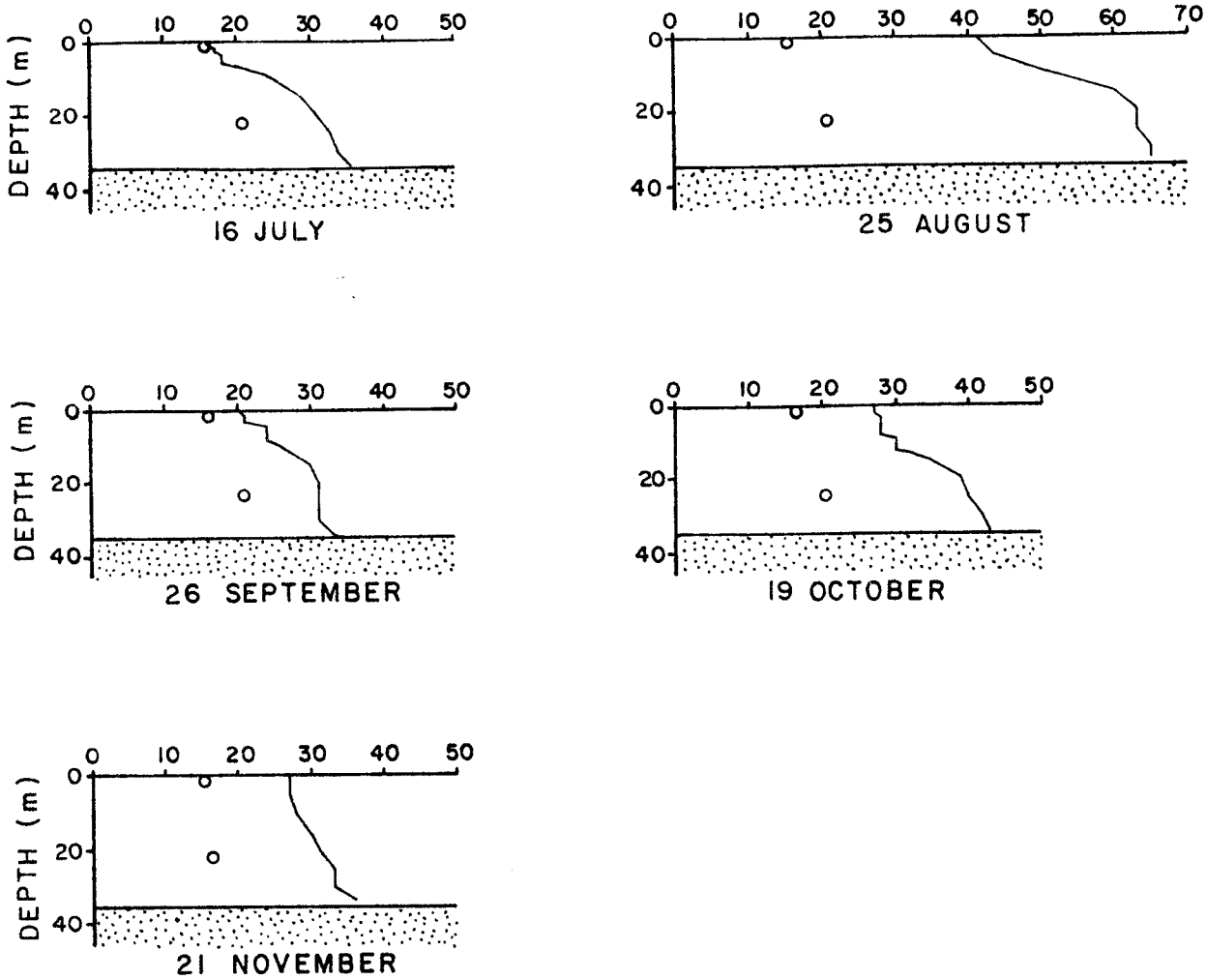
[illegible] Lake: light penetration at X_1 sampling station; 1983.

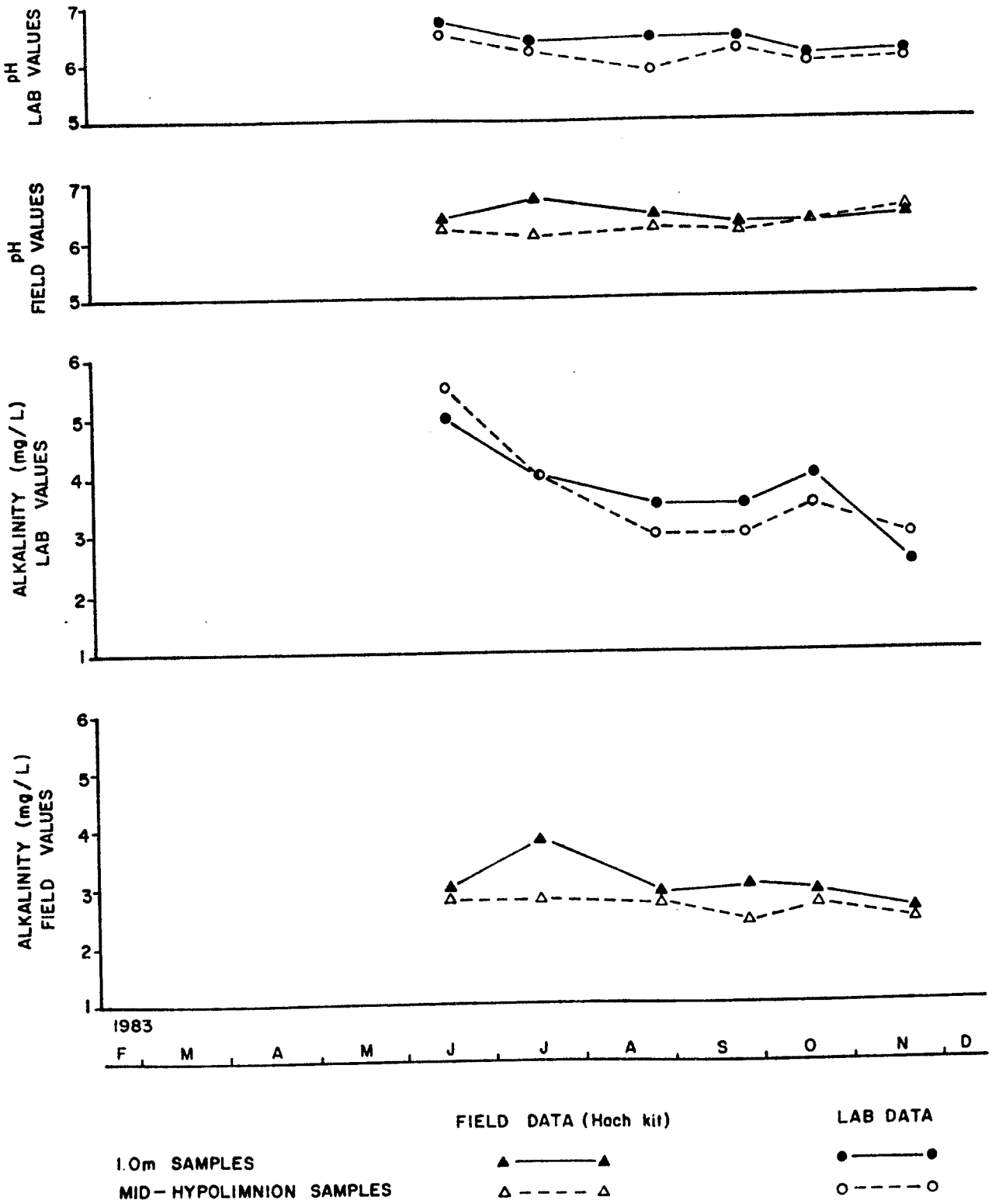


Spring Lake; light penetration at X_2 sampling station; 1983.

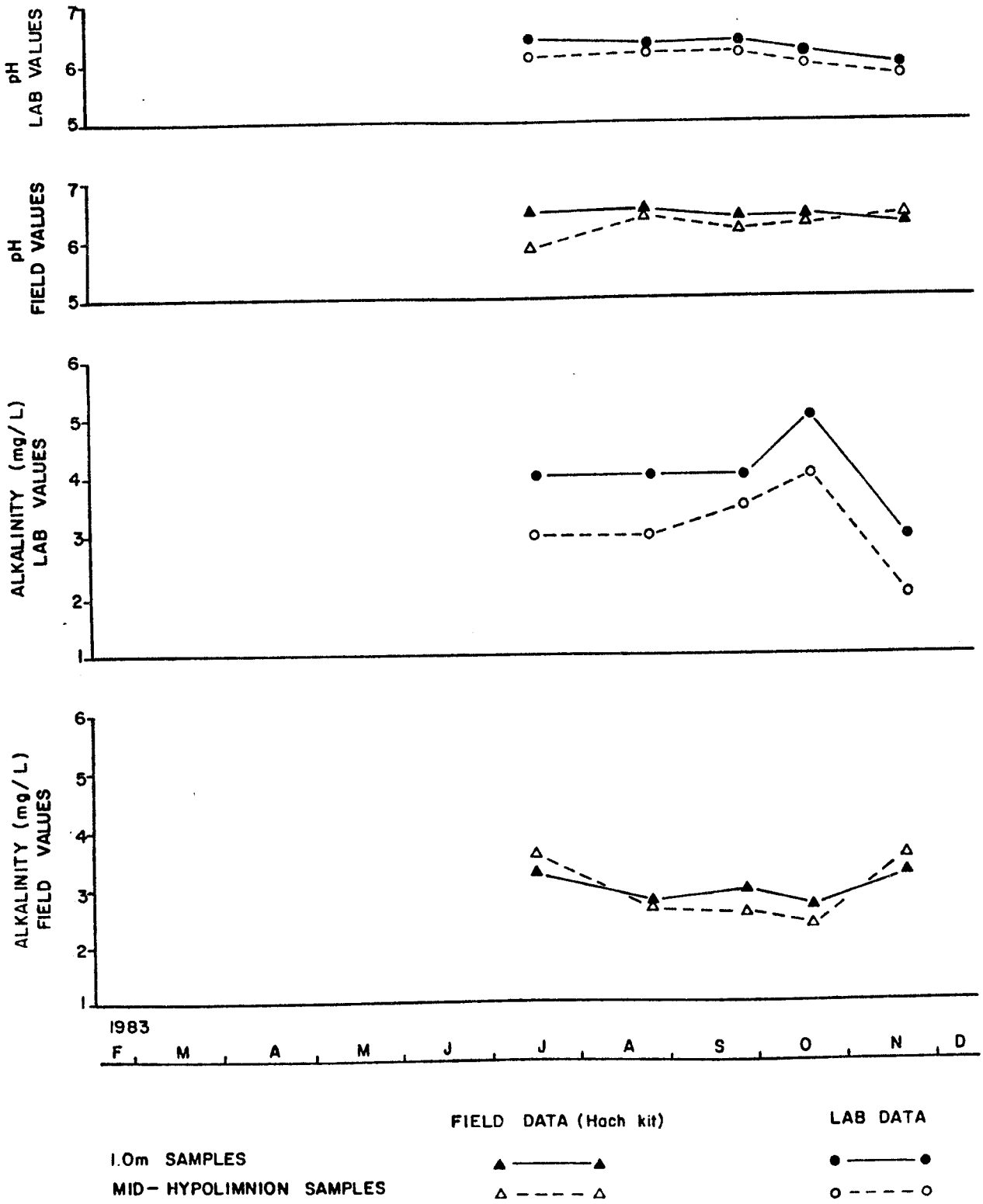

CONDUCTIVITY (µmhos/cm)
DEPTH (m)
15 JUNE
16 JULY
26 AUGUST
25 SEPTEMBER
19 OCTOBER
21 NOVEMBER
MULTIPARAMETER METER
LAB DATA
LAKE BOTTOM AT SAMPLING STATION

CONDUCTIVITY (µmhos/cm)

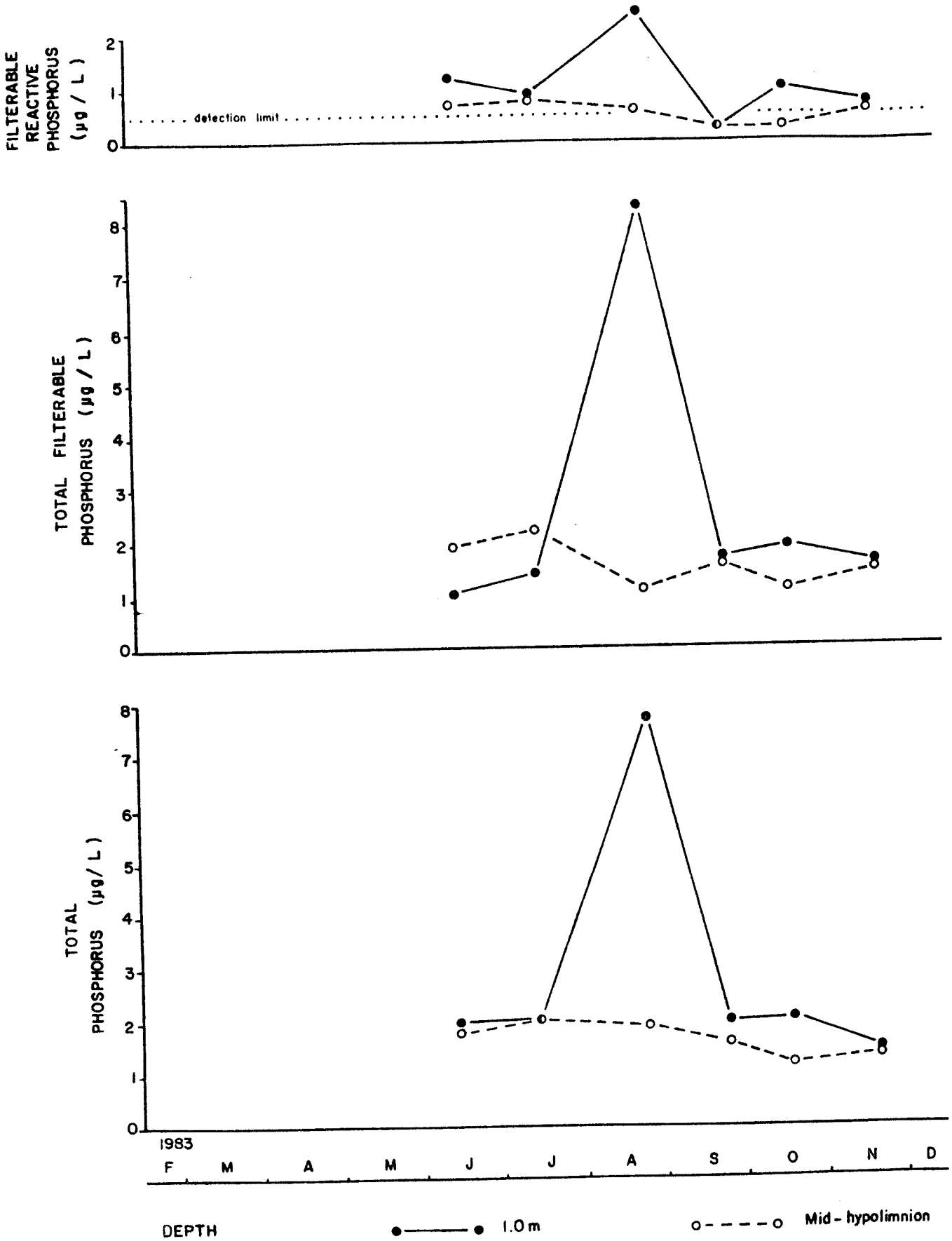




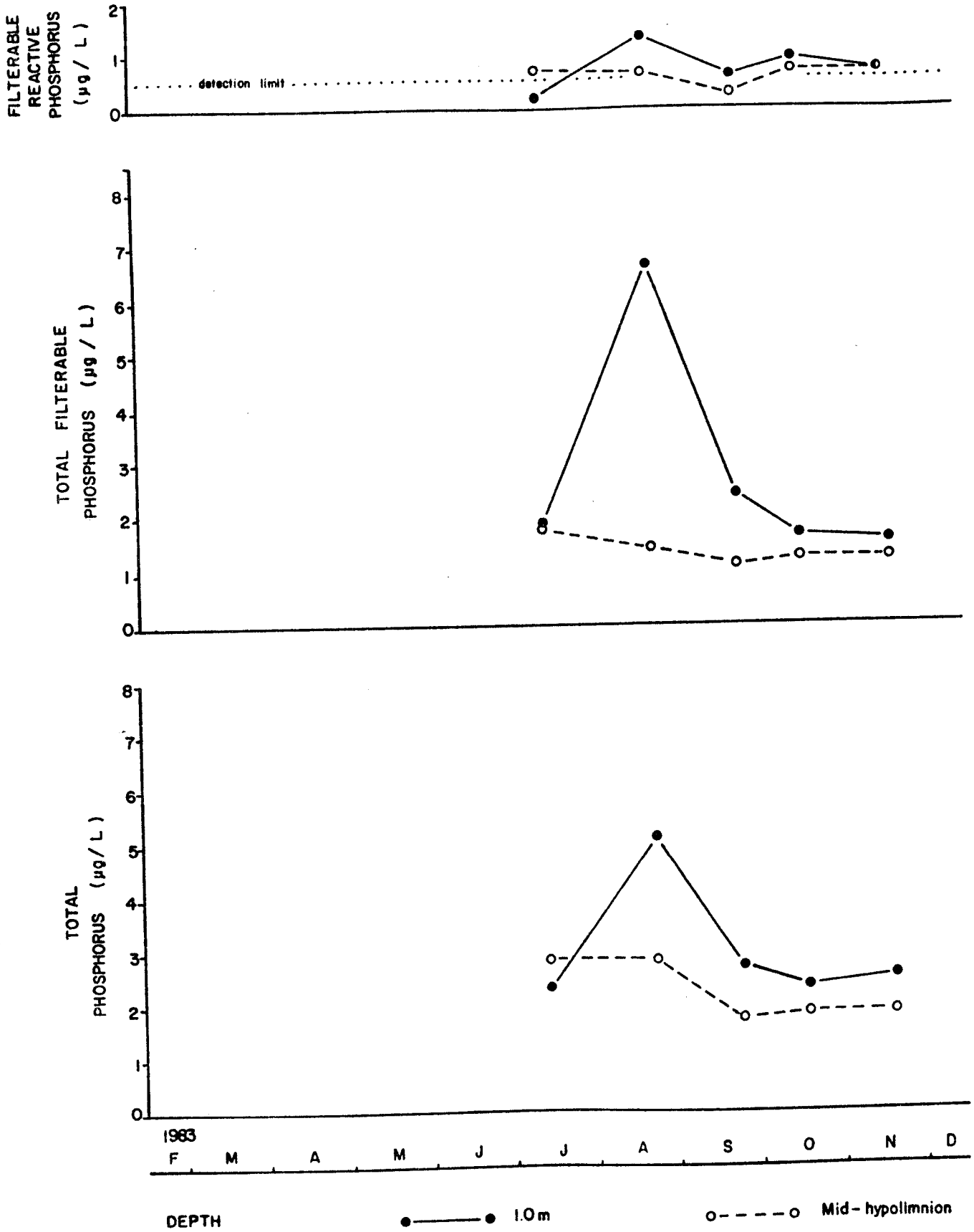
Spring Lake, X, sampling station, 1983.



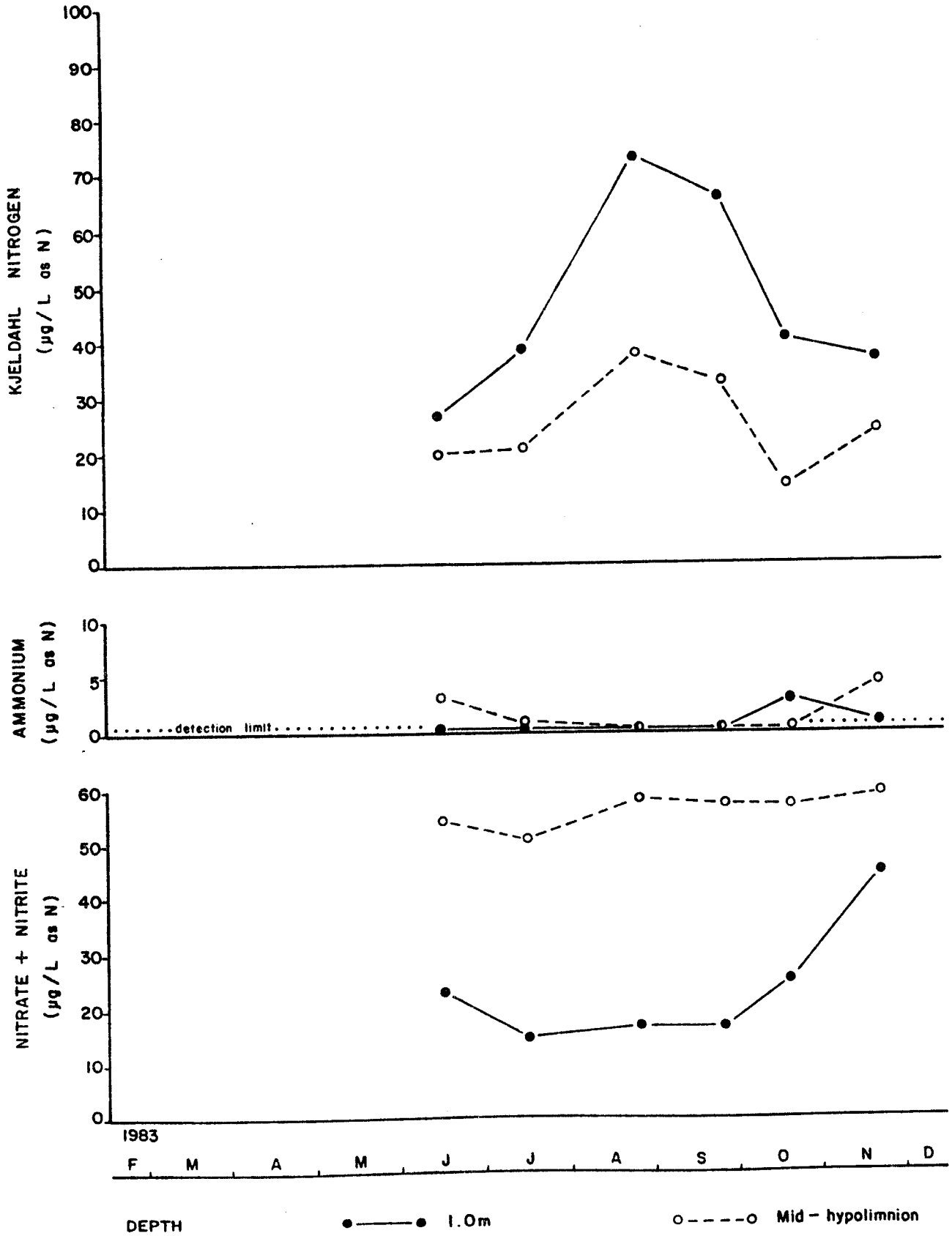
Oung lake, X_2 sampling station, 1983.



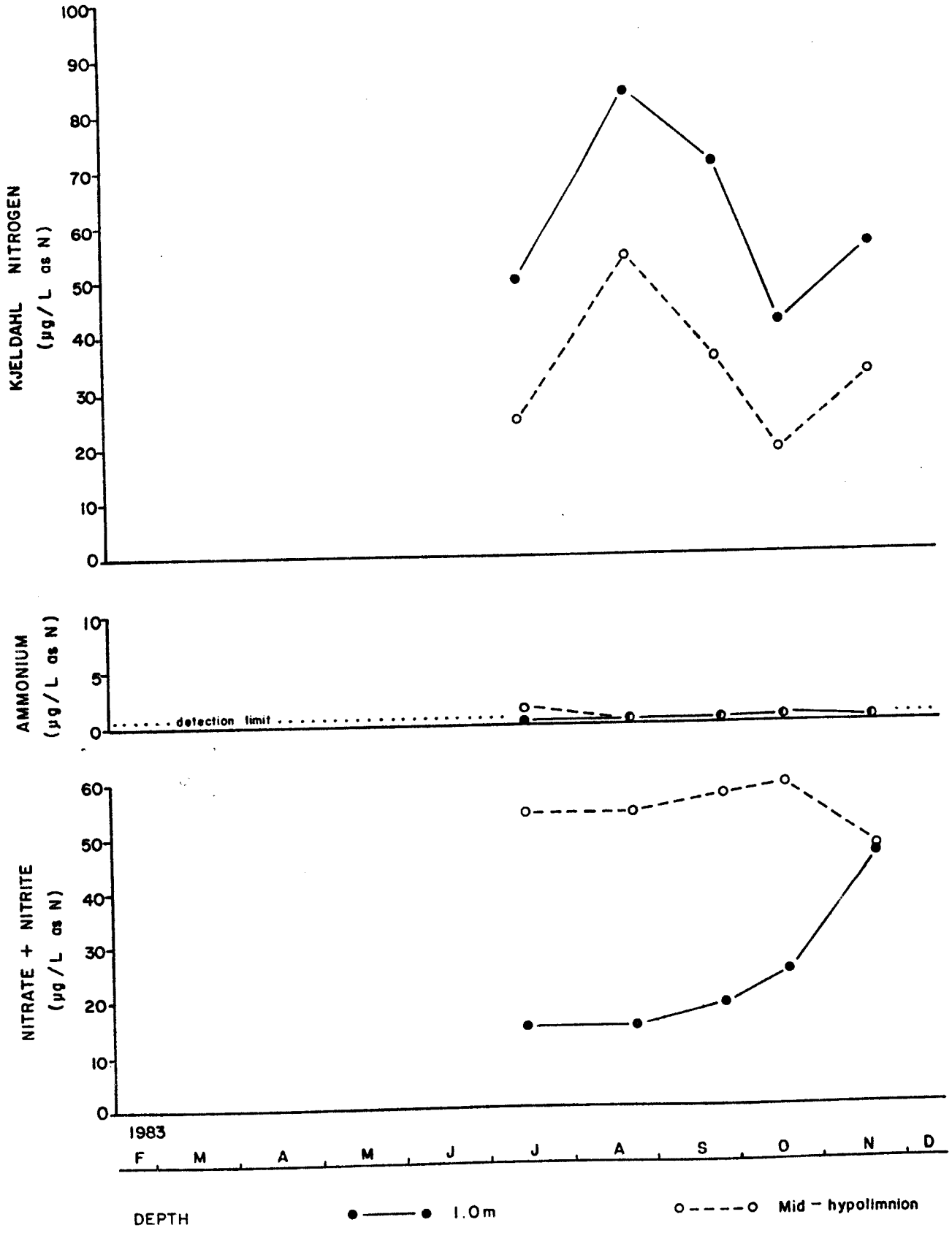
Osprey lake, X, sampling station, 1983.



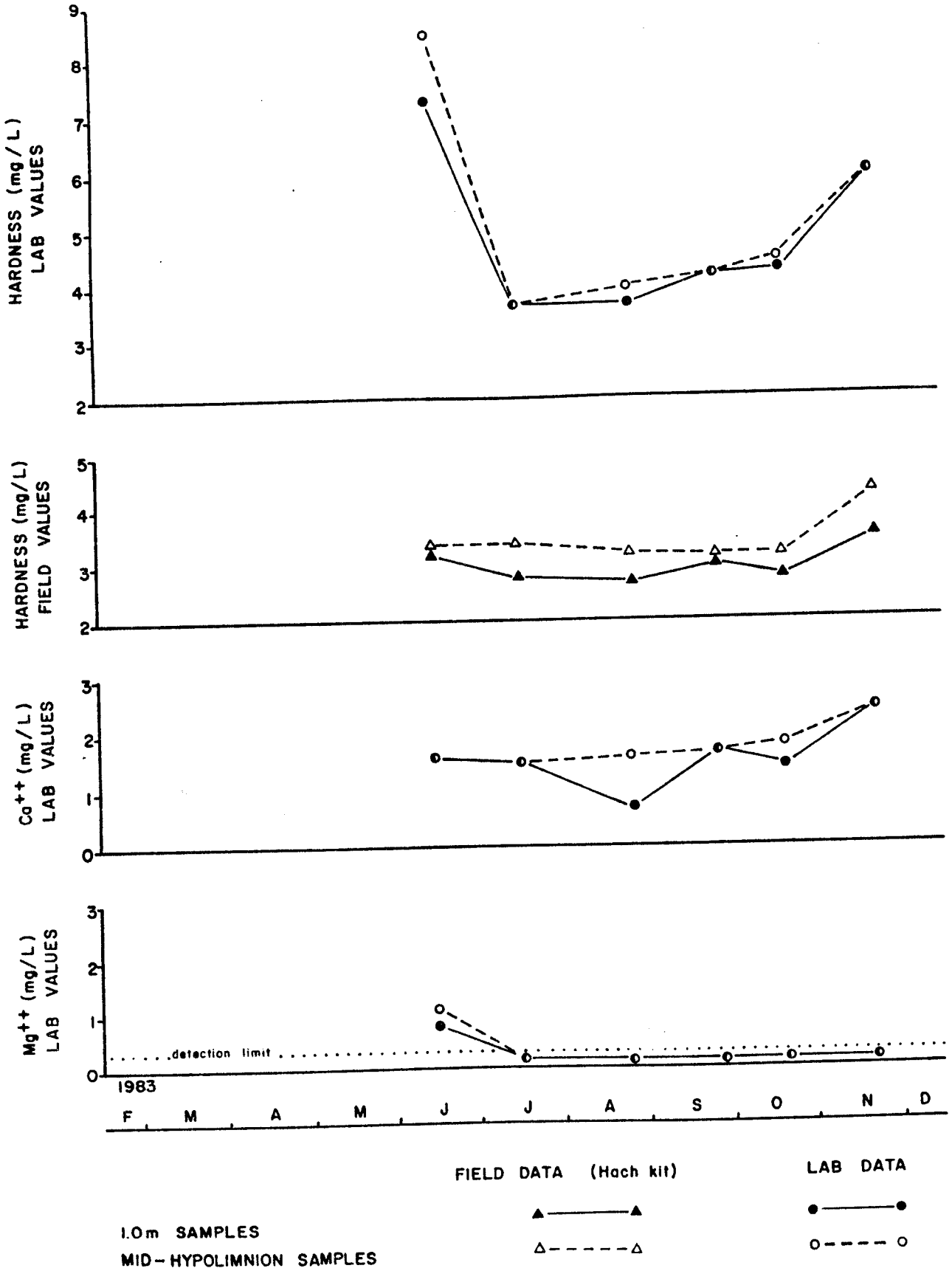
Osprey Lake, X sampling station, 1983.



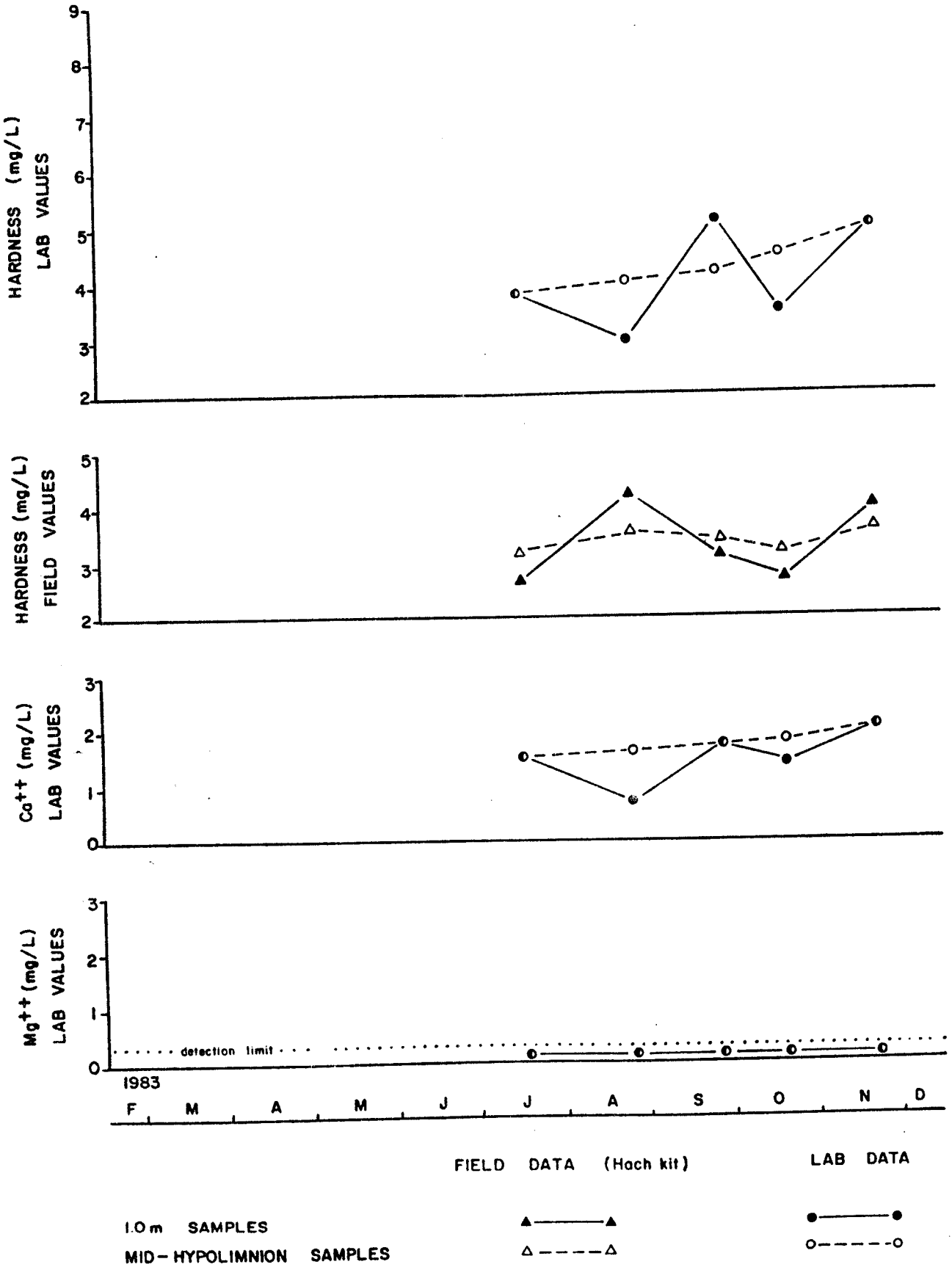
Osprey Lake, X, sampling station, 1983.



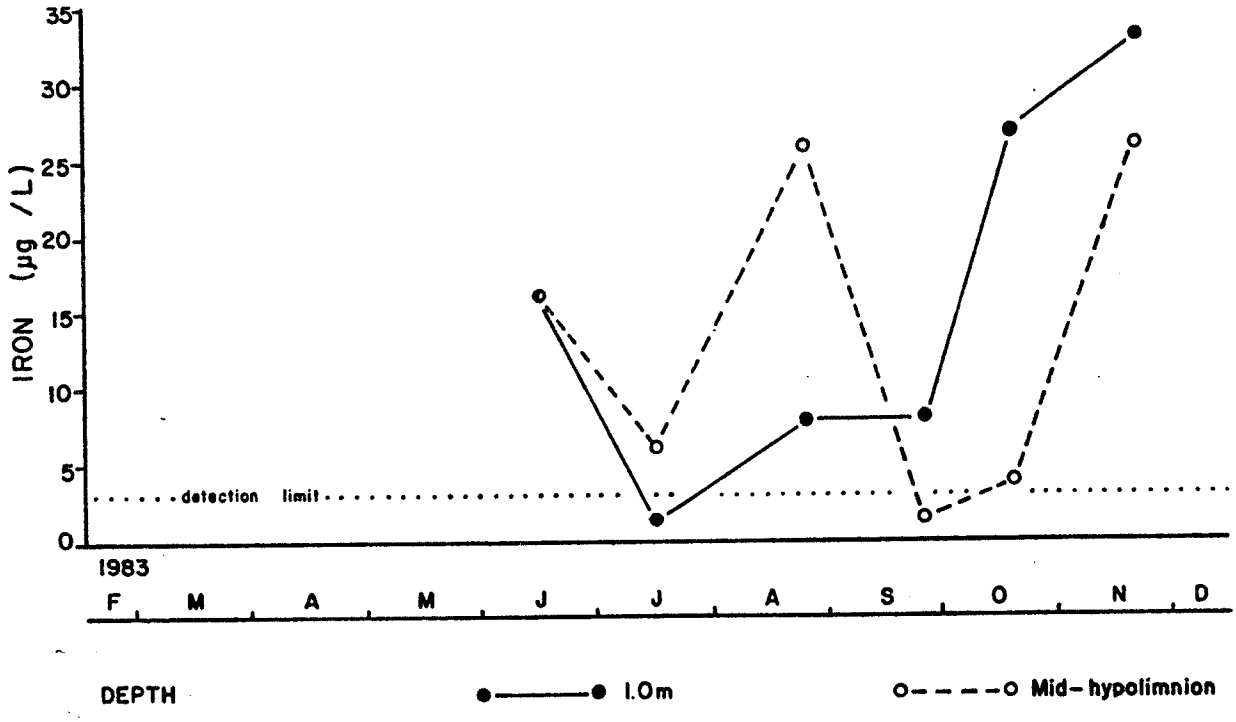
Osprey Lake, X_2 sampling station, 1983



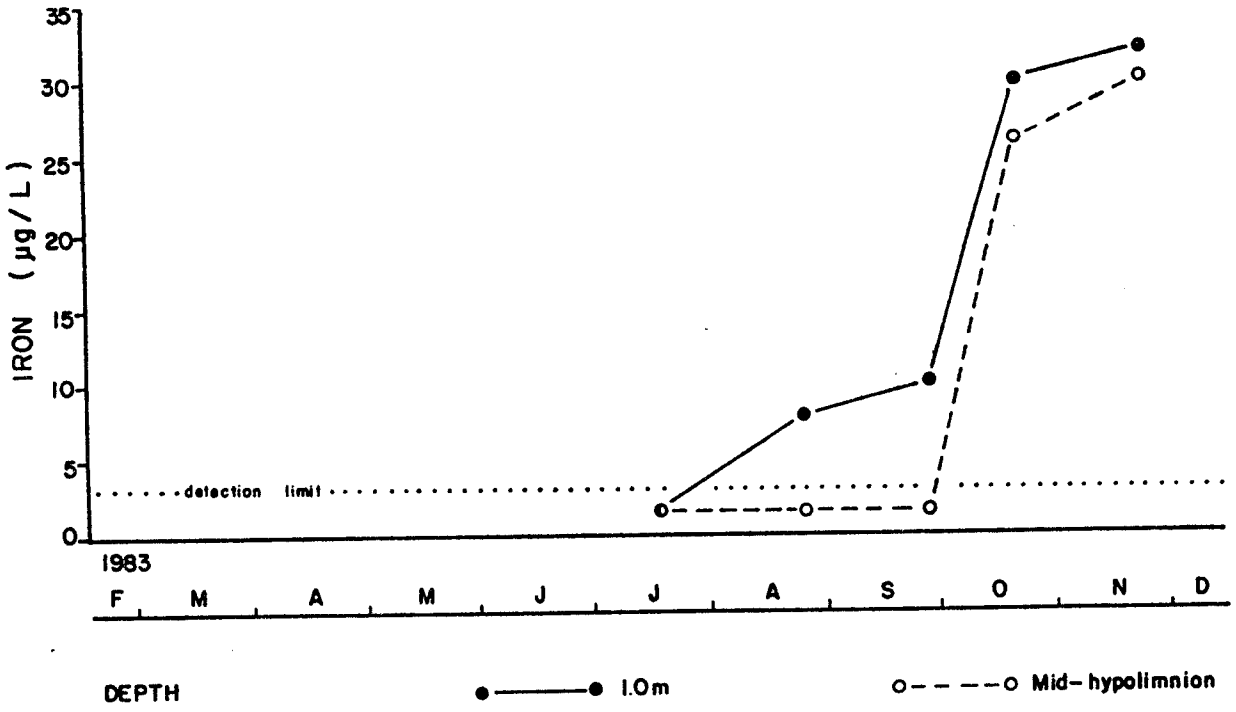
Aging Lake, X1 sampling station, 1983



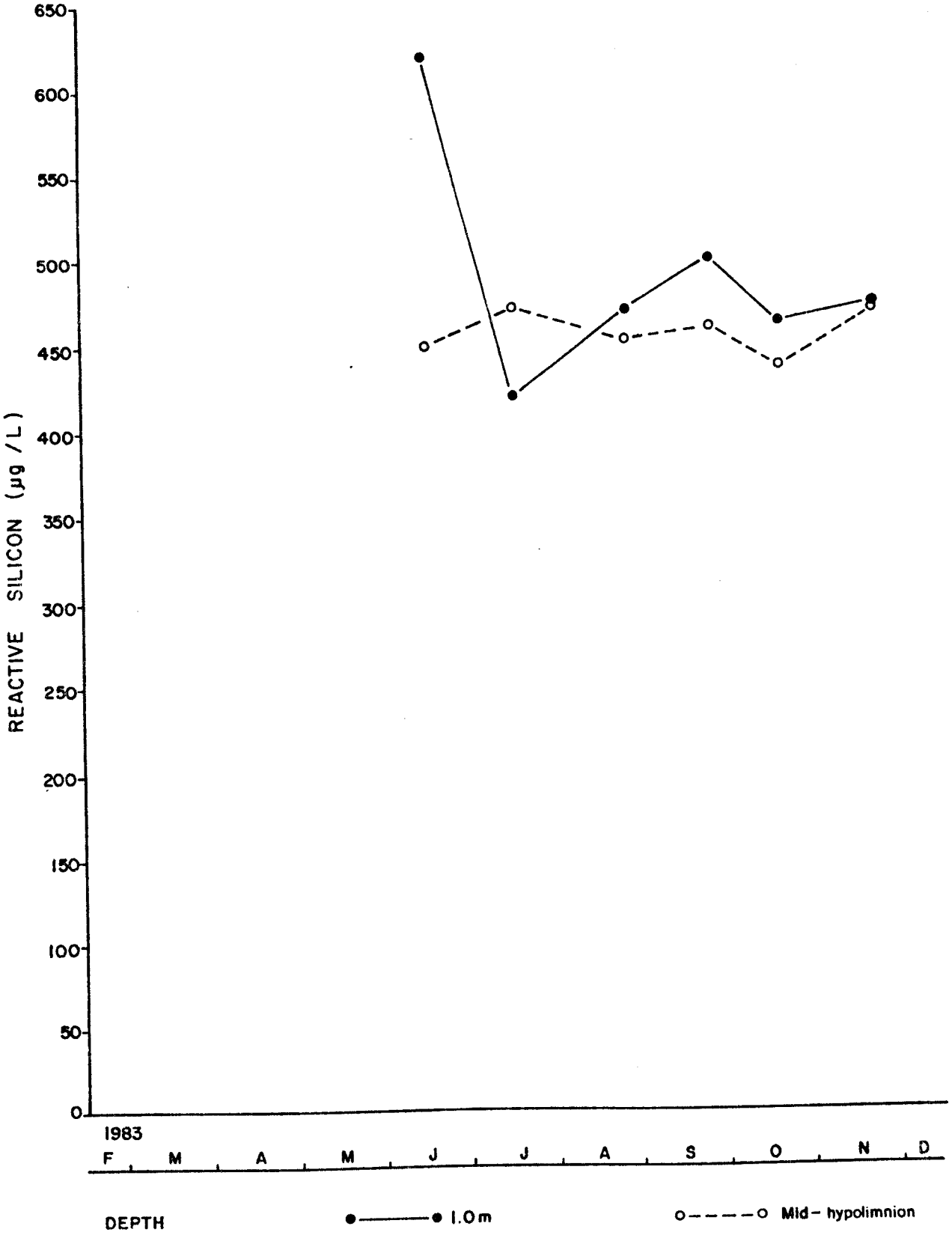
Osprey Lake, X_2 sampling station, 1983.

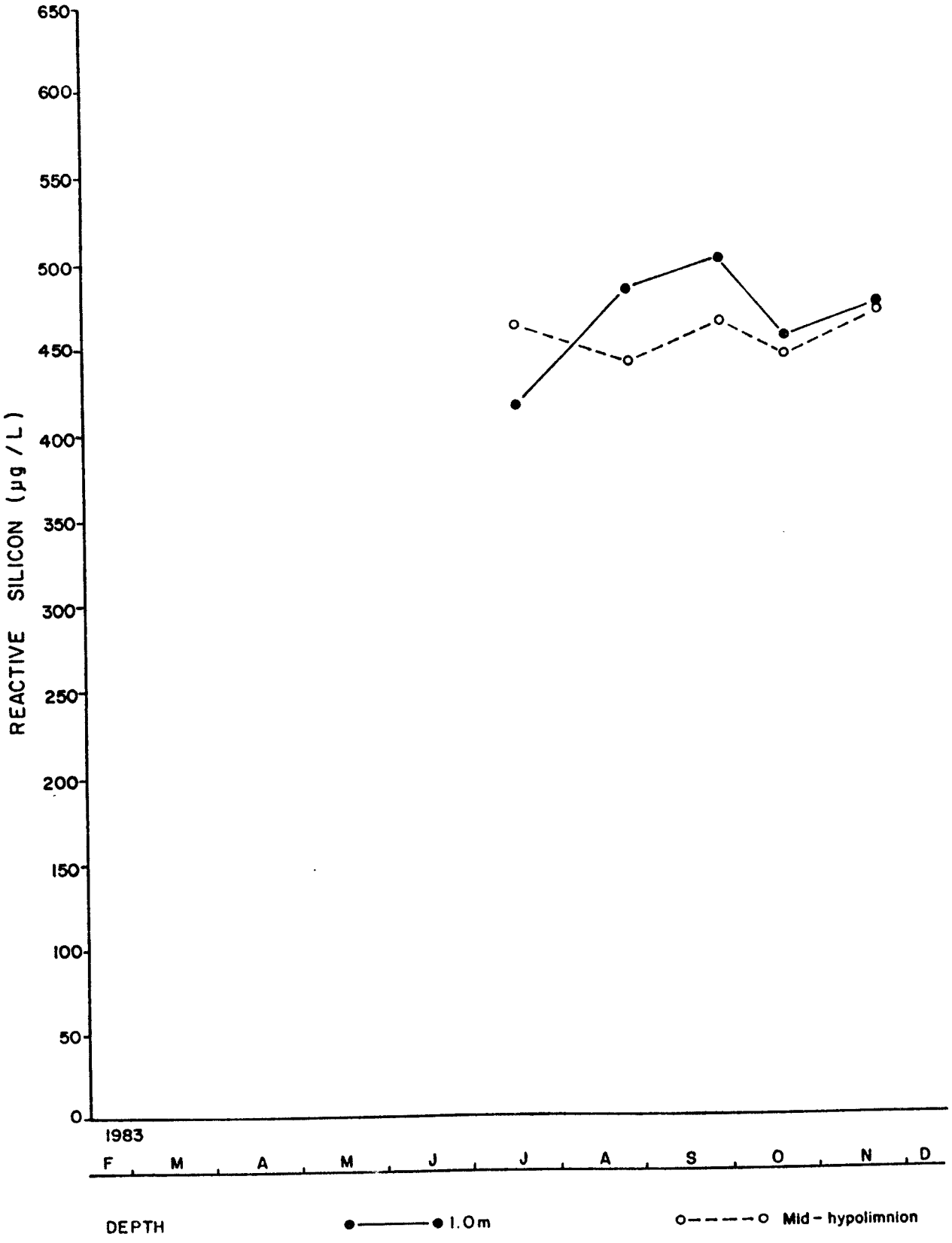


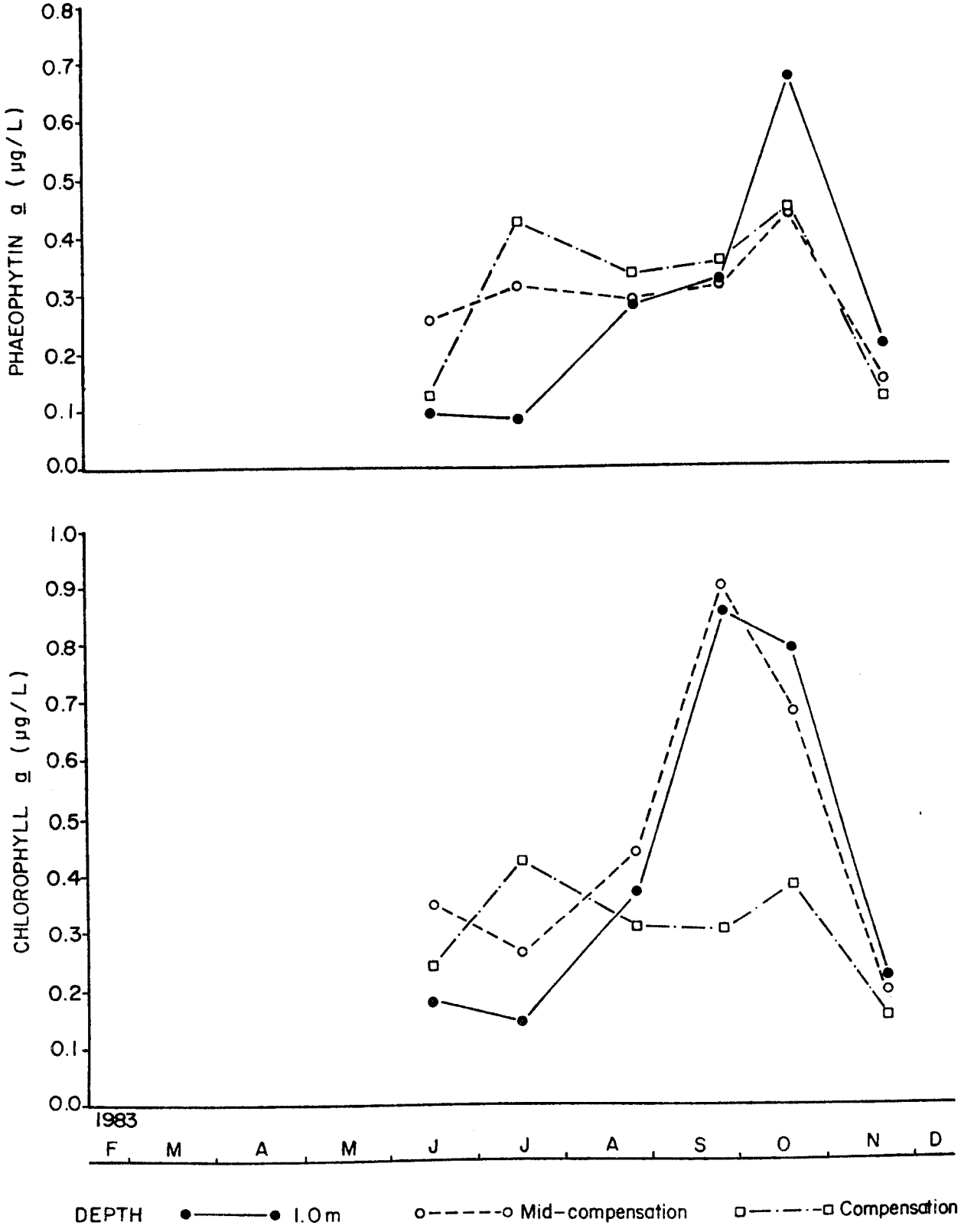
Osprey Lake, X, sampling station, 1983.

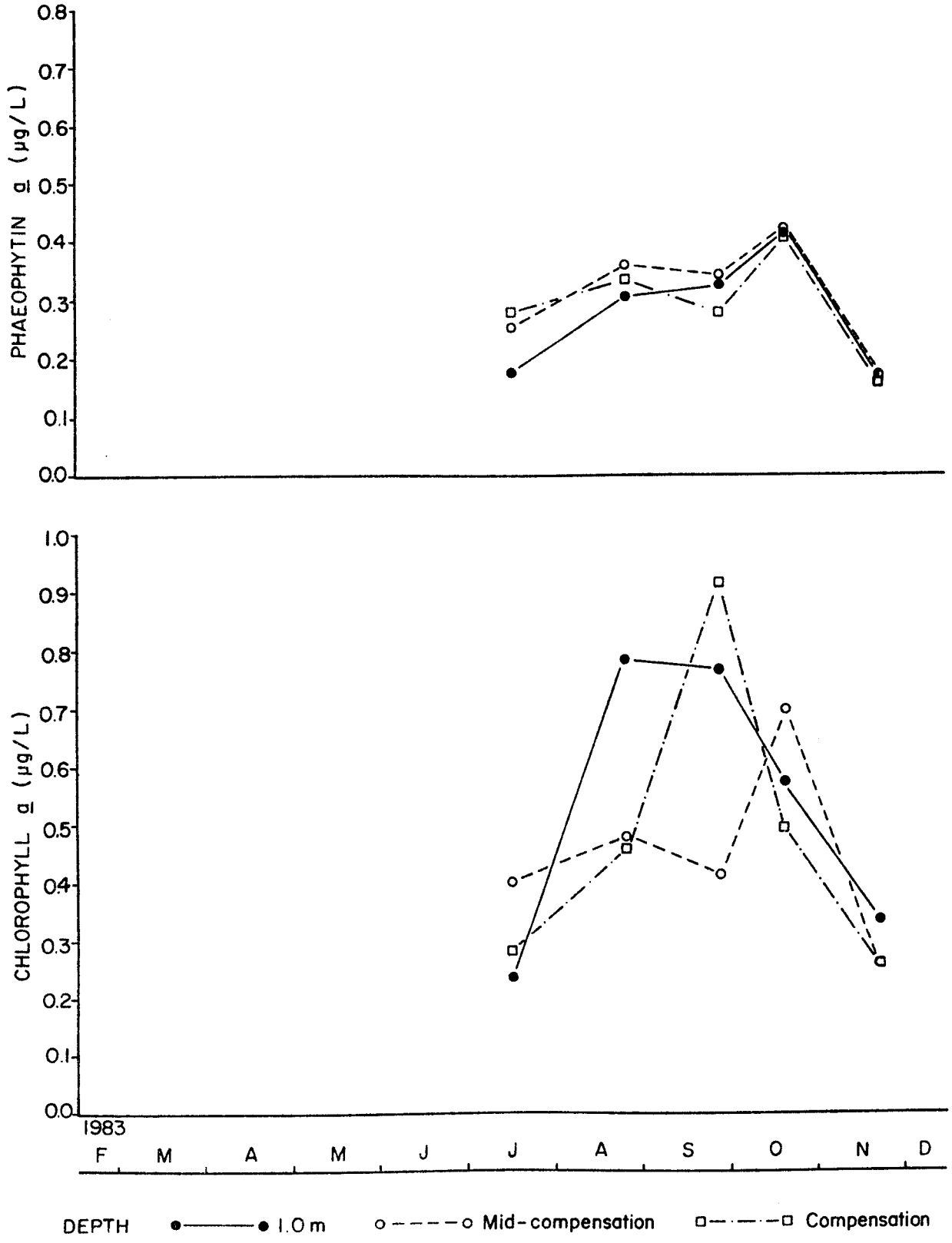


Osprey Lake, ½ sampling station, 1983.


REACTIVE SILICON (µg /L)
650
600
550
500
450
400
350
300
250
200
150
100
50
0
1983
F
M
A
M
J
J
A
S
O
N
D
DEPTH
1.0m
Mid- hypolimnion


REACTIVE SILICON (µg / L)
650
600
550
500
450
400
350
300
250
200
150
100
50
0
1983
F
M
A
M
J
J
A
S
O
N
D
DEPTH
1.0m
Mid - hypolimnion


PHAEOPHYTIN a (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
CHLOROPHYLL a (µg/L)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1983
F M A M J J A S O N D
DEPTH
1.0m
Mid-compensation
Compensation


PHAEOPHYTIN a (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
CHLOROPHYLL a (µg/L)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1983
F M A M J J A S O N D
DEPTH
1.0 m
Mid-compensation
Compensation

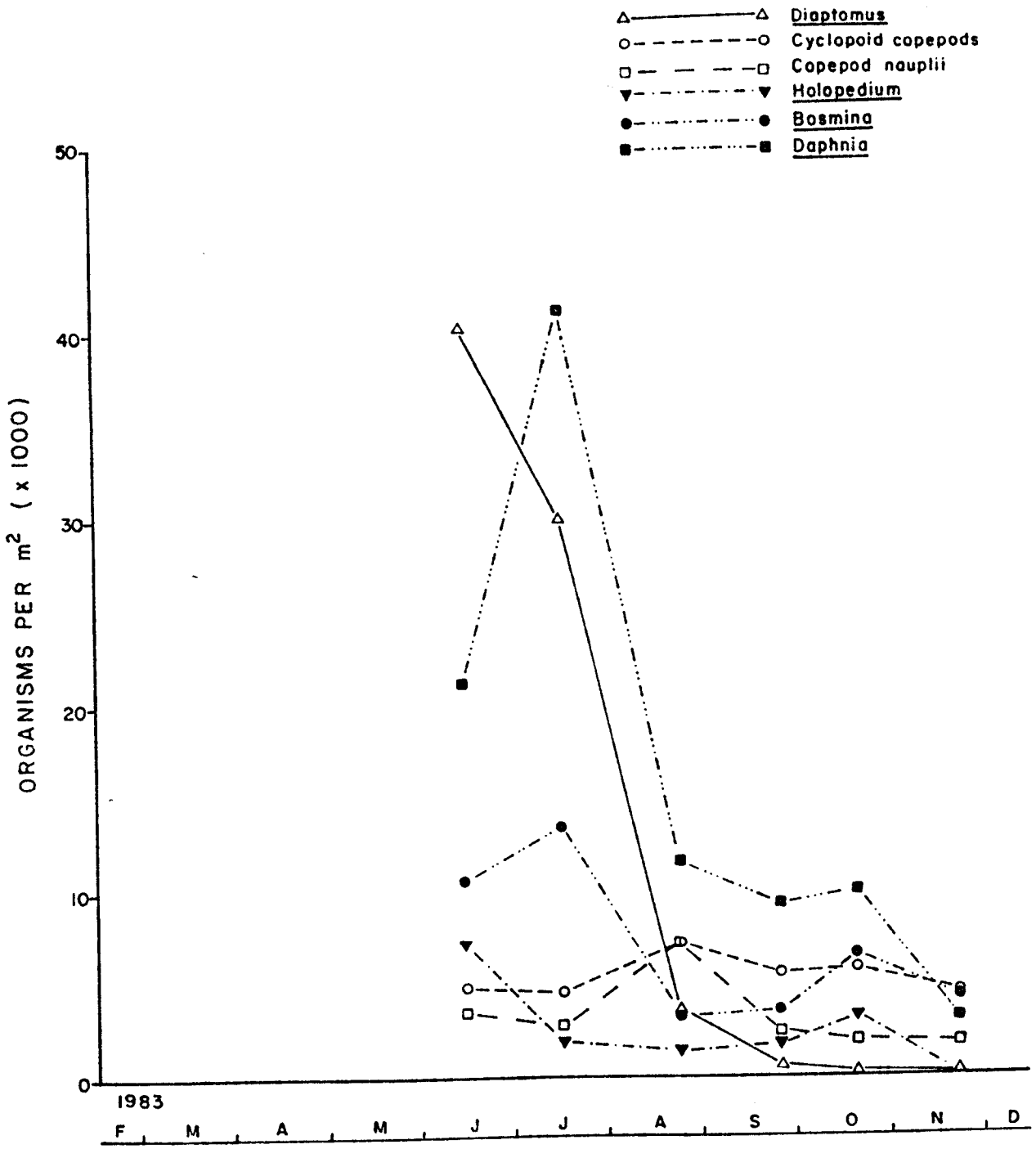


Figure . Zooplankton densities in Osprey Lake, as estimated by vertical-tow samples at the west basin sampling station, 1983.

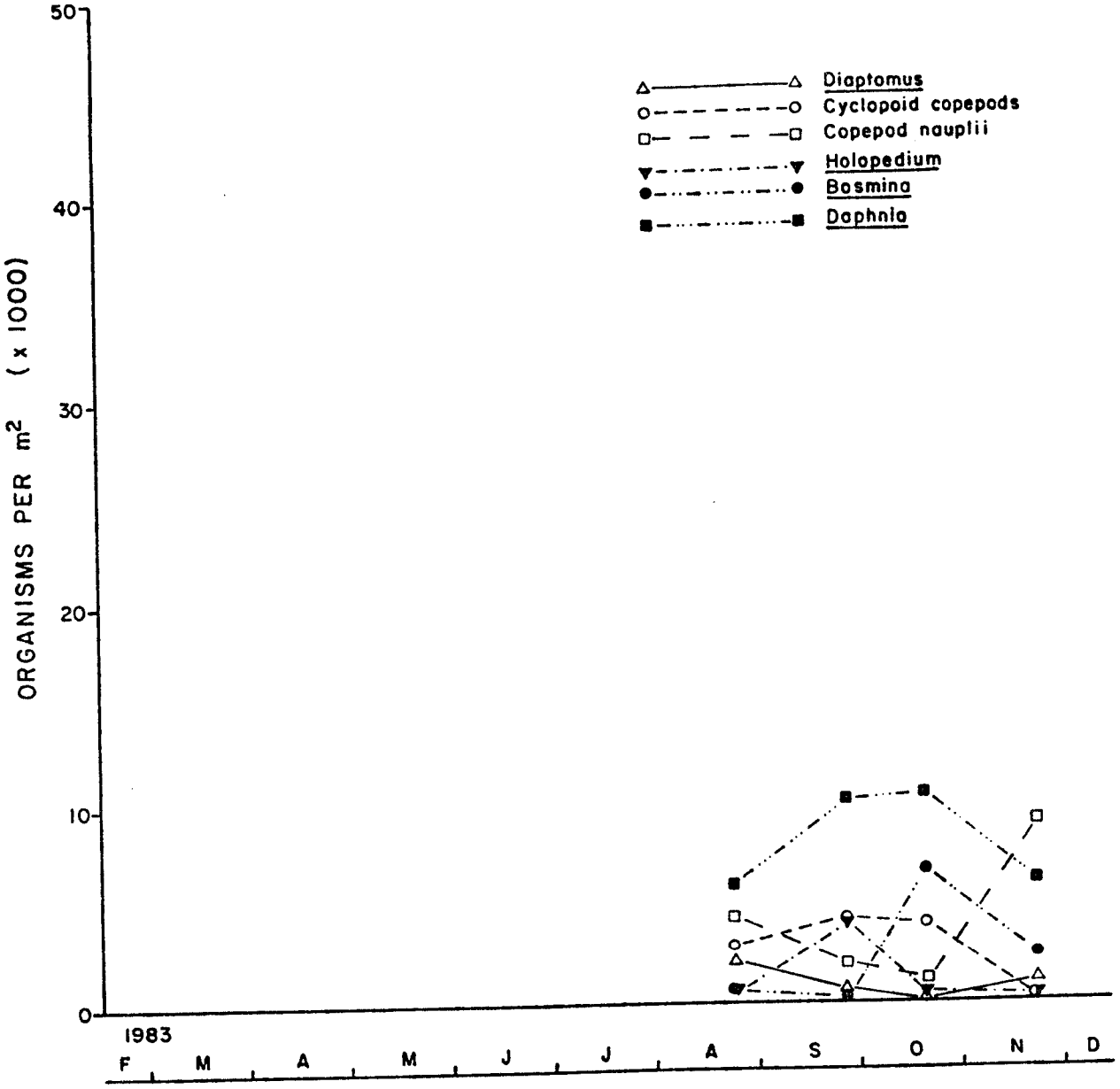


Figure . Zooplankton densities in Osprey Lake, as estimated by vertical-tow samples at the east basin sampling station, 1983.