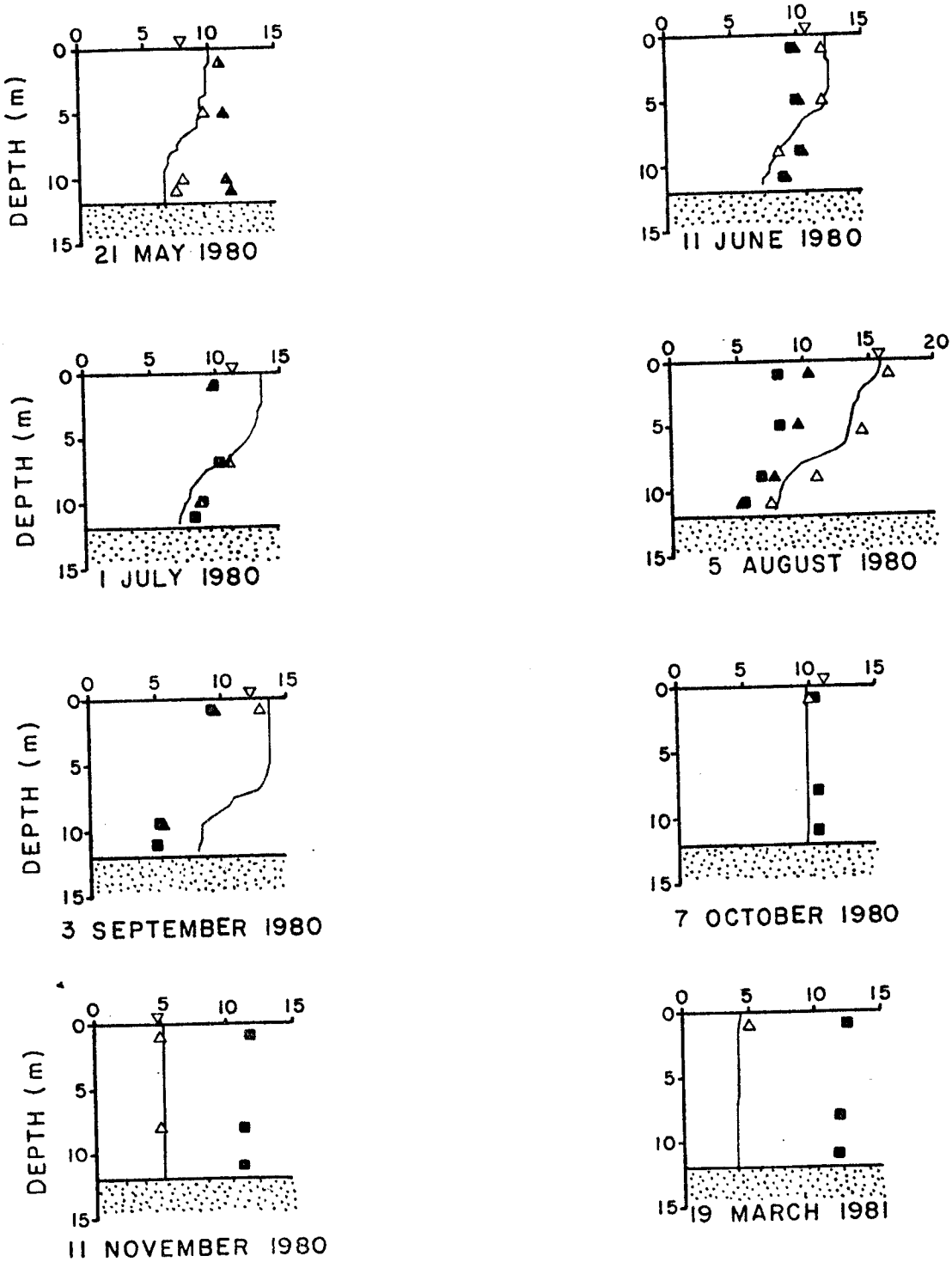
1980-81 data

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

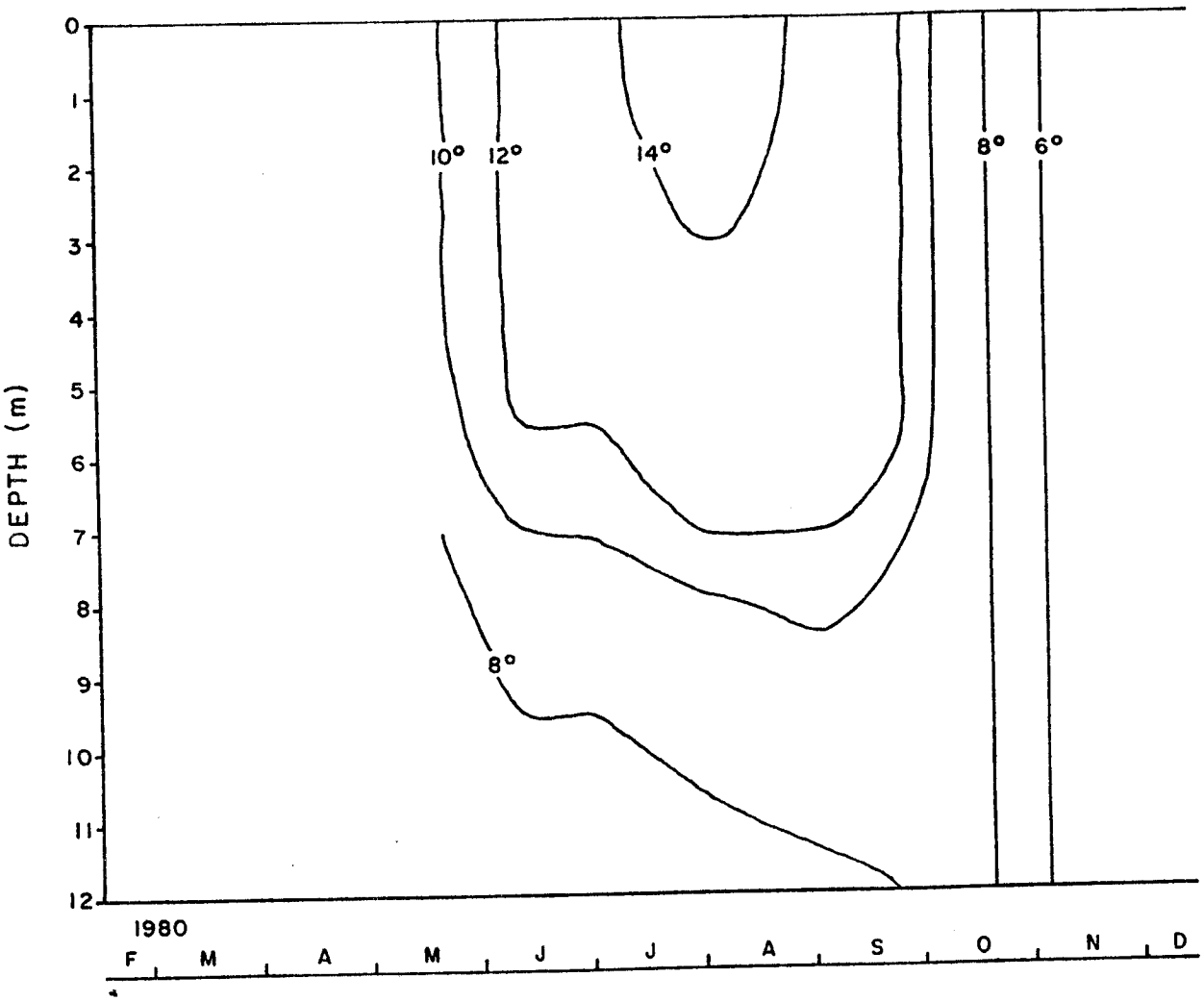


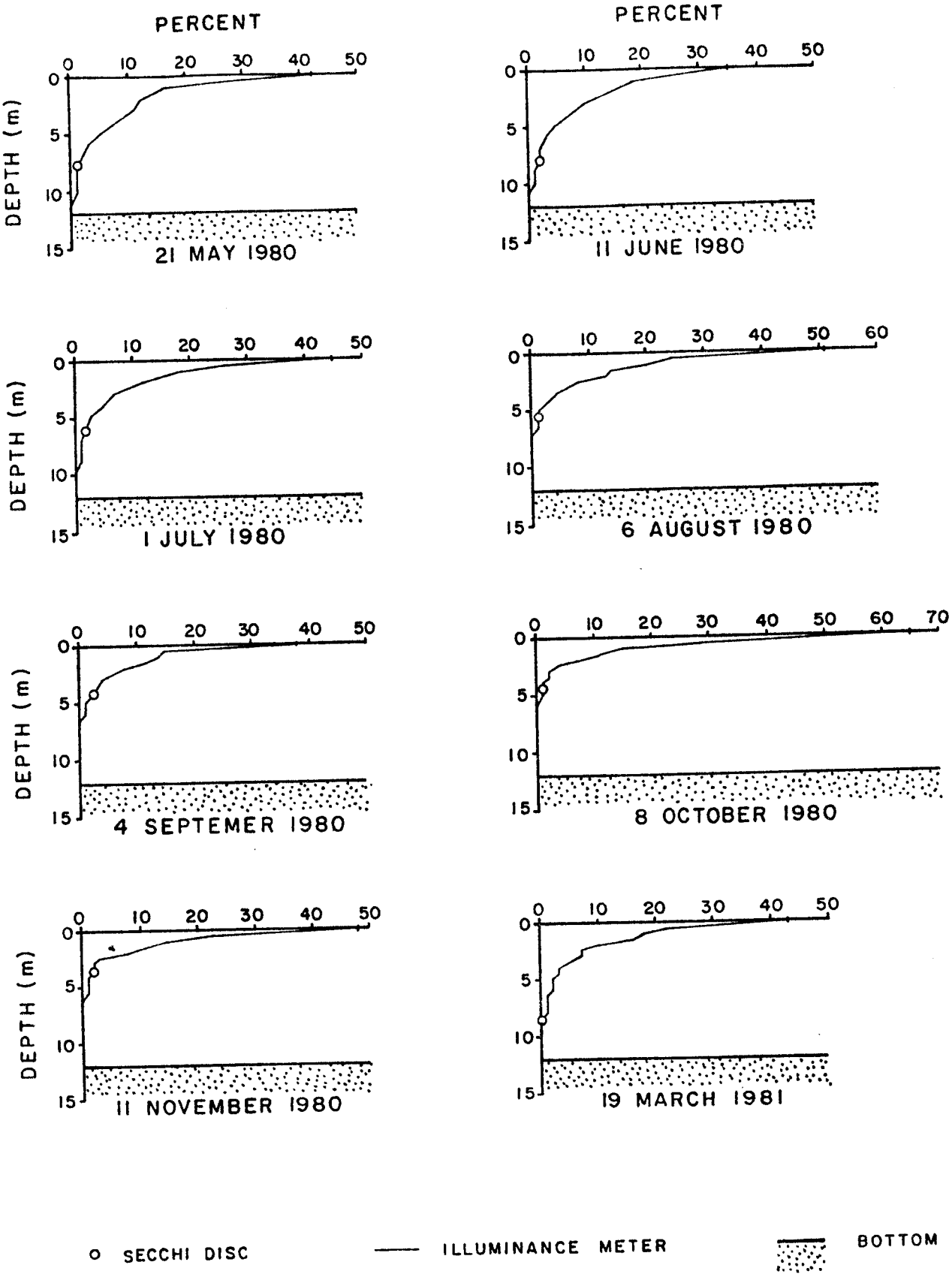
TEMPERATURE △ Rod thermometer —— Thermistor thermometer ▽ Air

DISSOLVED OXYGEN ▲ Winkler method ■ Multiparameter meter

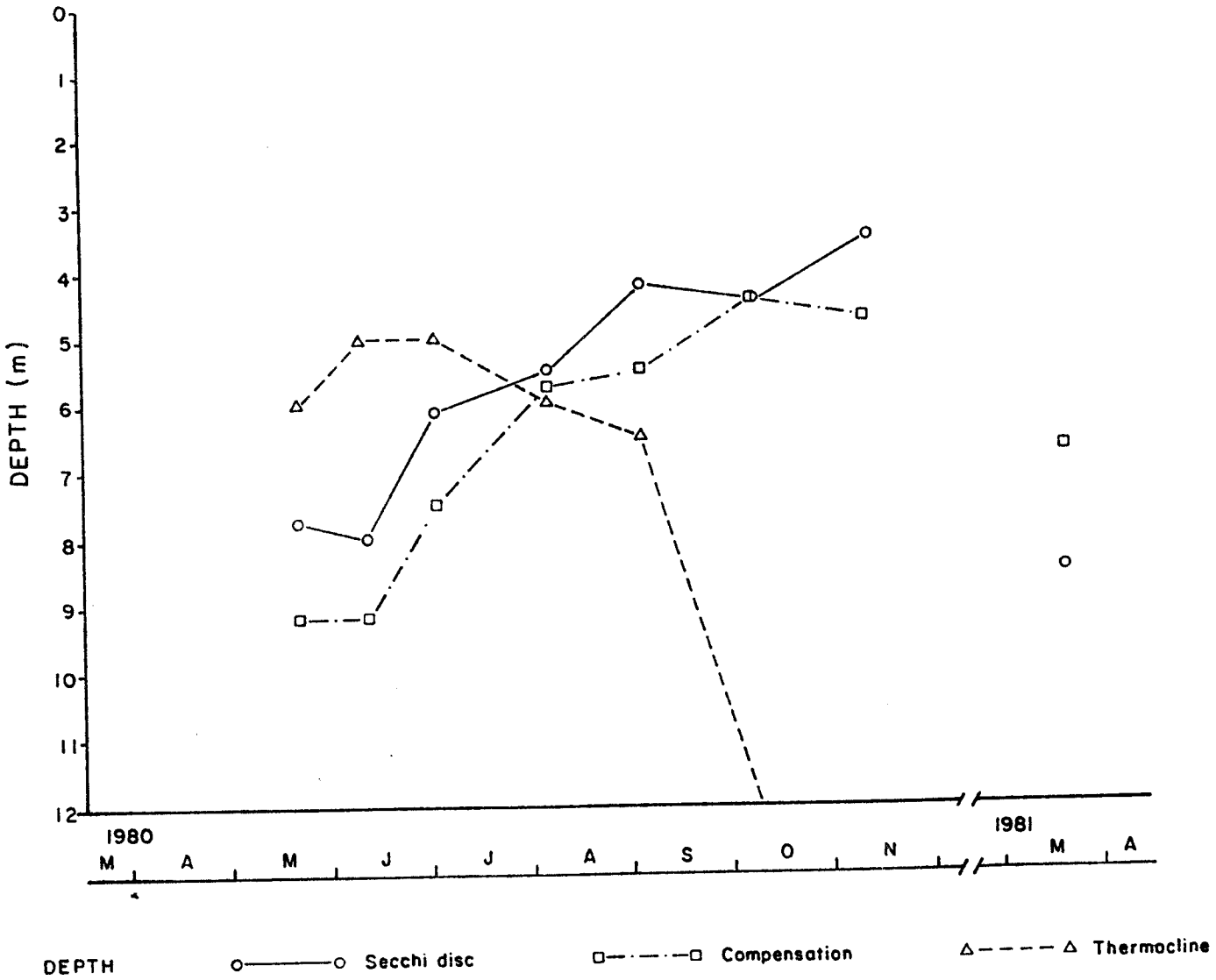
Lake bottom at sampling station

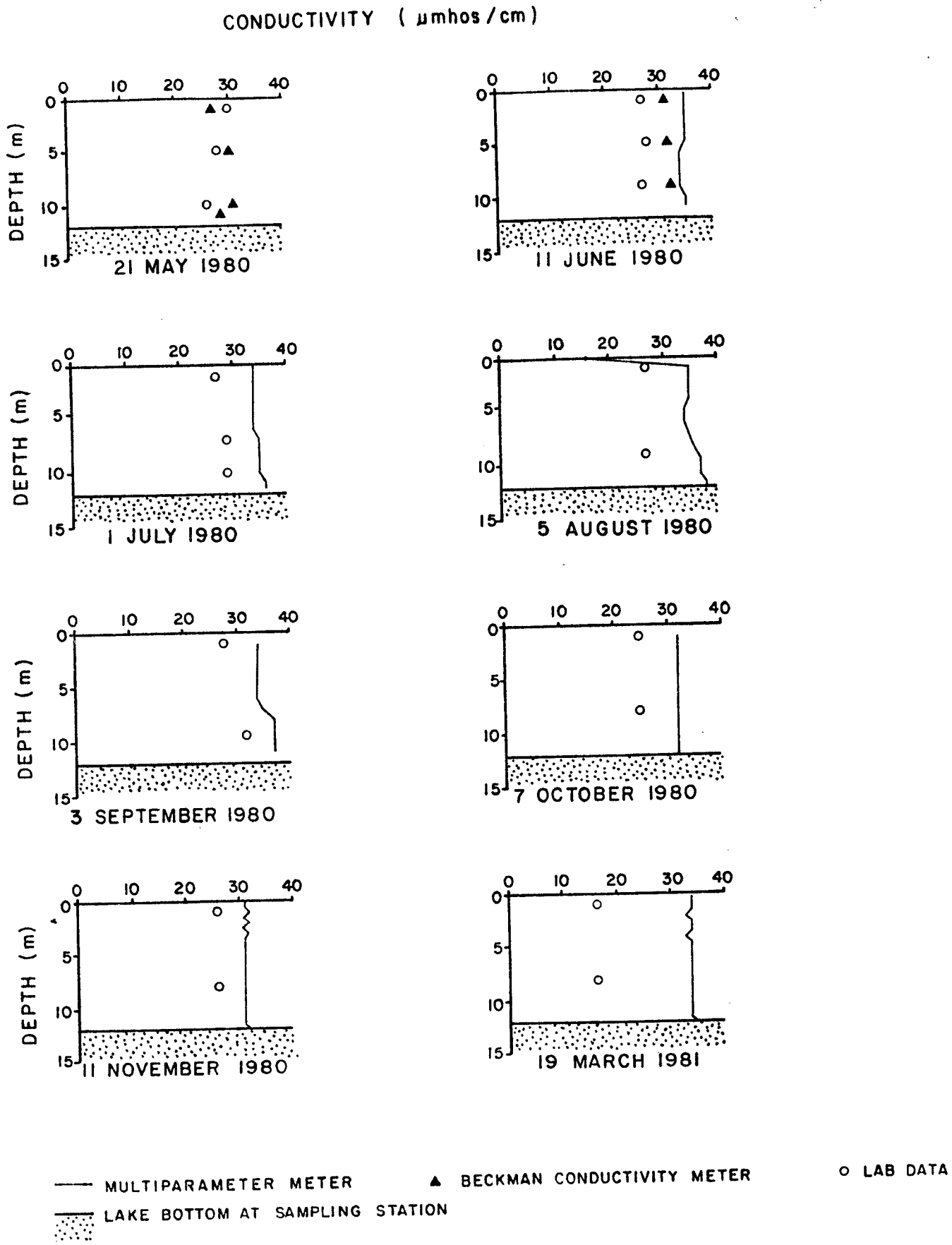
Lake ; X, sampling stations; 1980-81


DEPTH (m)
0
1
2
3
4
5
6
7
8
9
10
11
12
10°
12°
14°
8°
6°
8°
1980
F
M
A
M
J
J
A
S
O
N
D



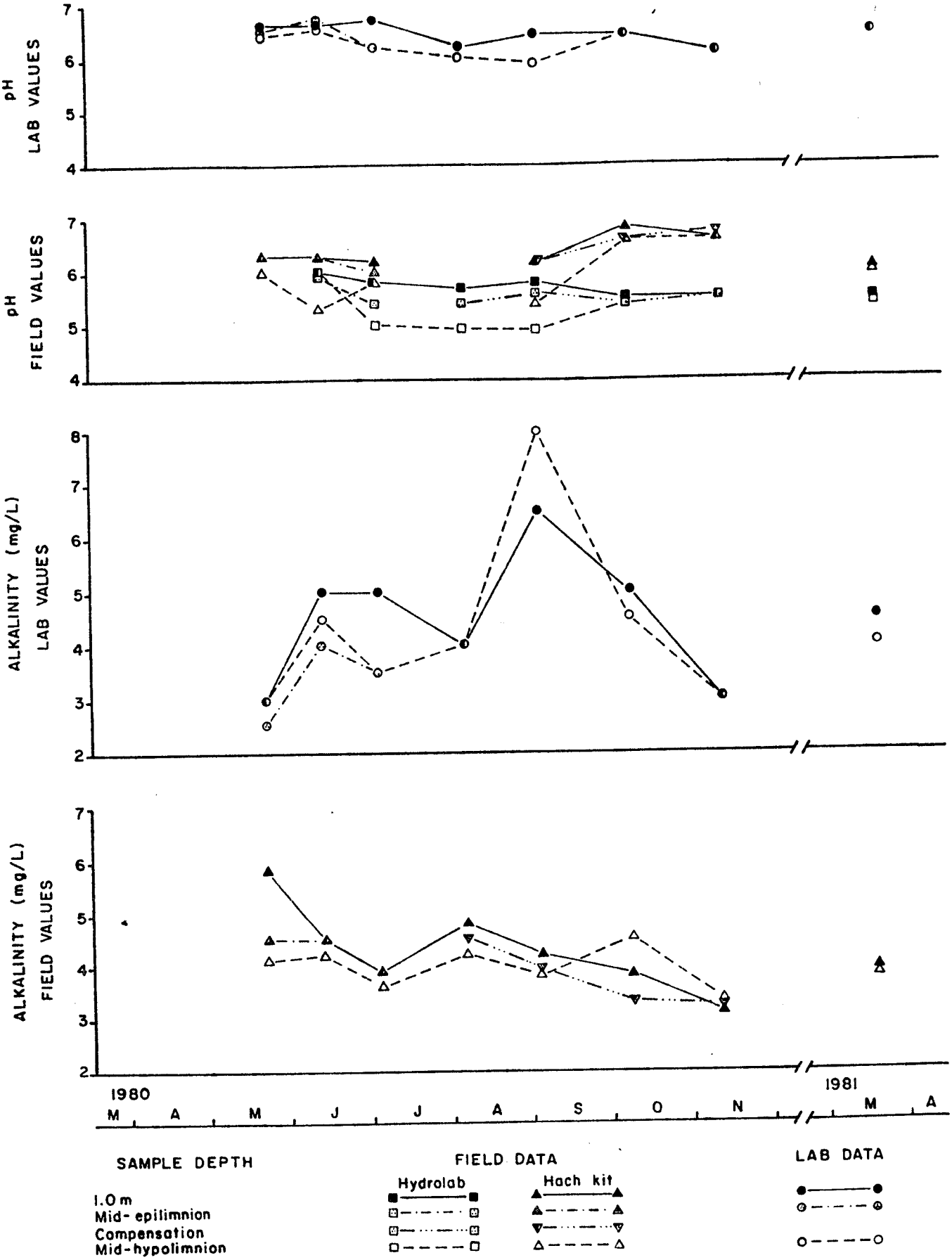
[illegible] light [illegible] (a X_1 sampling station 1980-81.


DEPTH (m)
0
1
2
3
4
5
6
7
8
9
10
11
12
1980
M
A
M
J
J
A
S
O
N
1981
M
A
DEPTH
Secchi disc
Compensation
Thermocline



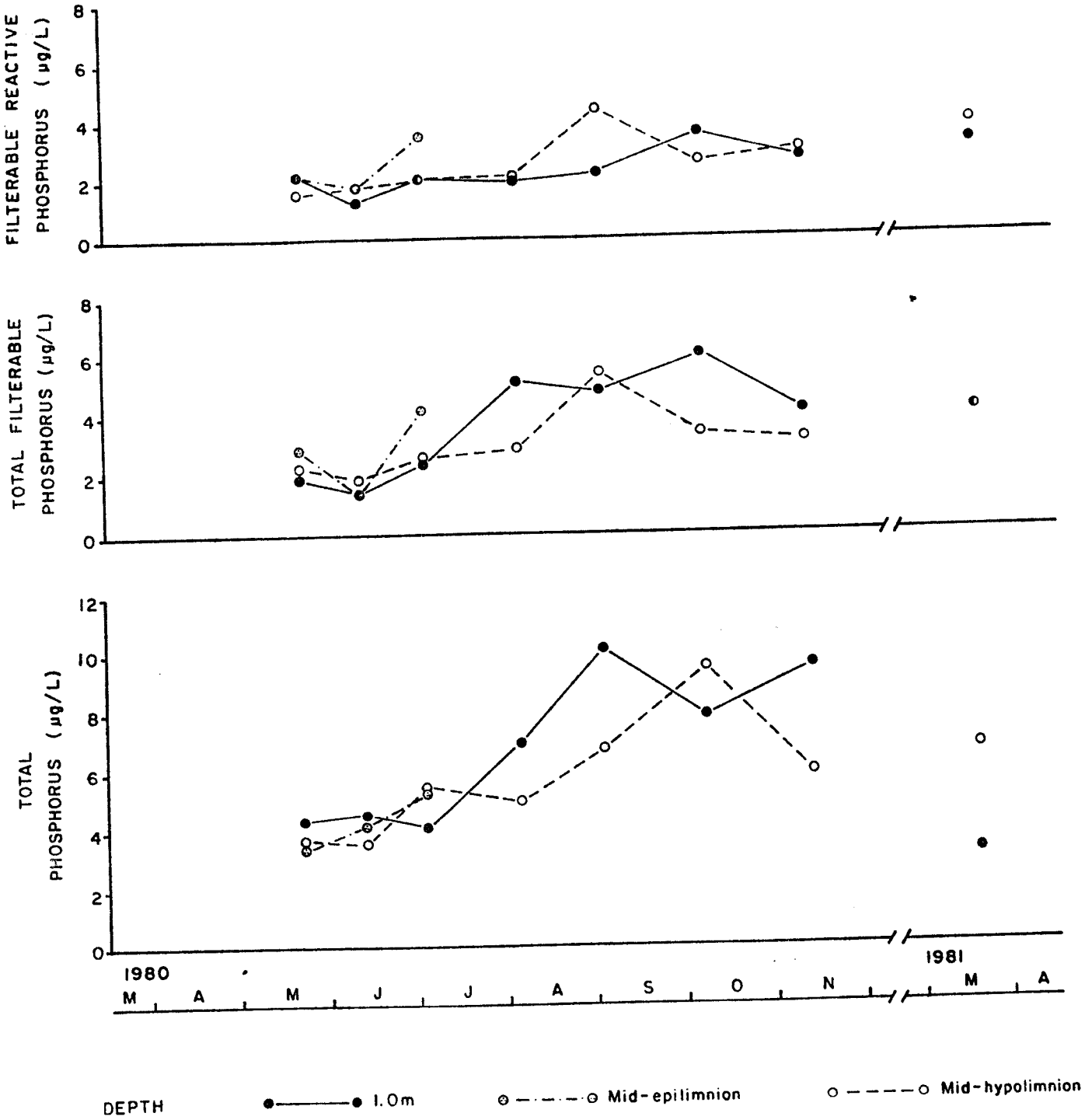
"Sea Lion Cove" Lake;

X, sampling station; 1980-81.

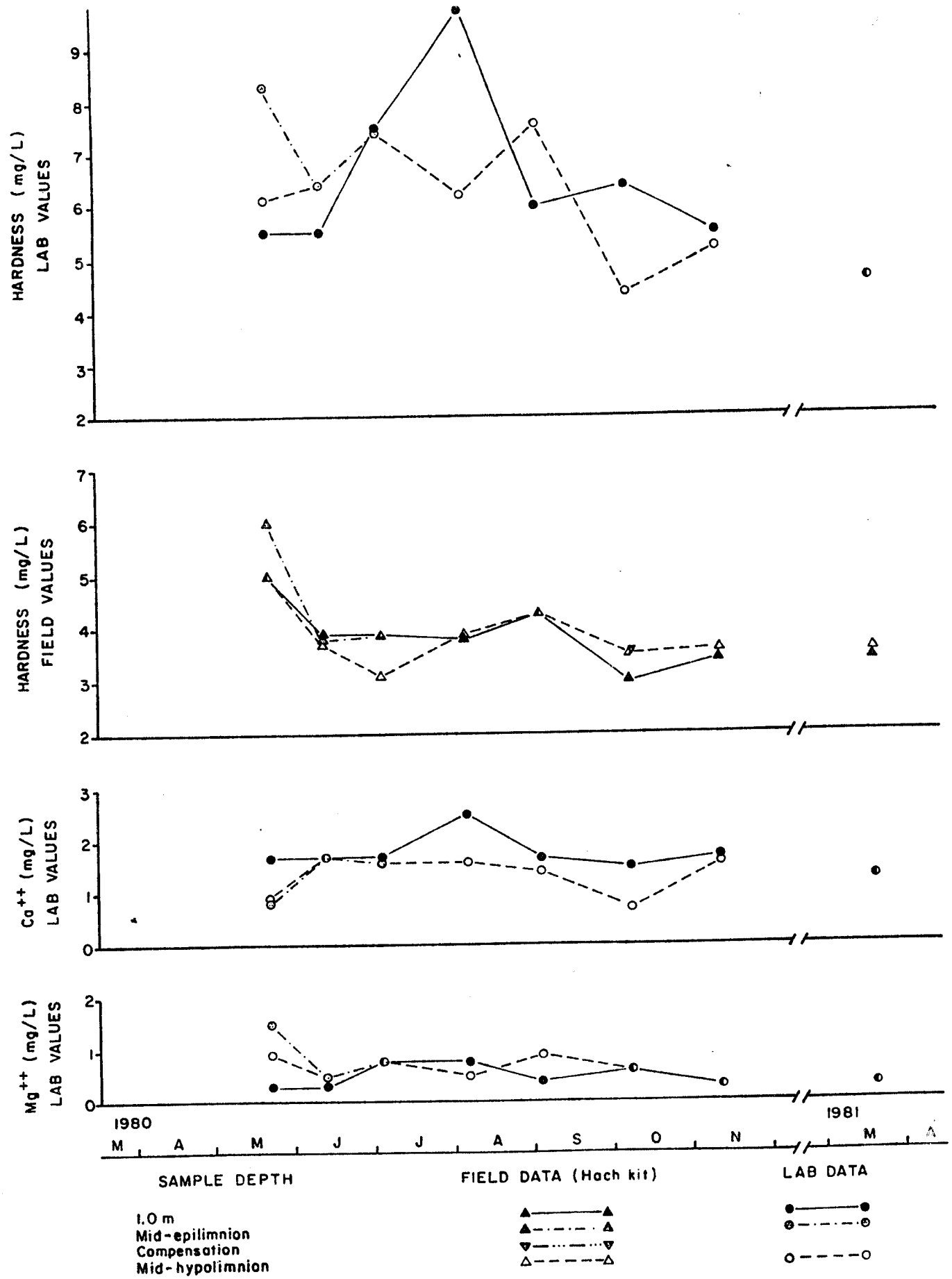


"Sea Lion Cove" Lake:

X, sampling station, 1980-81.

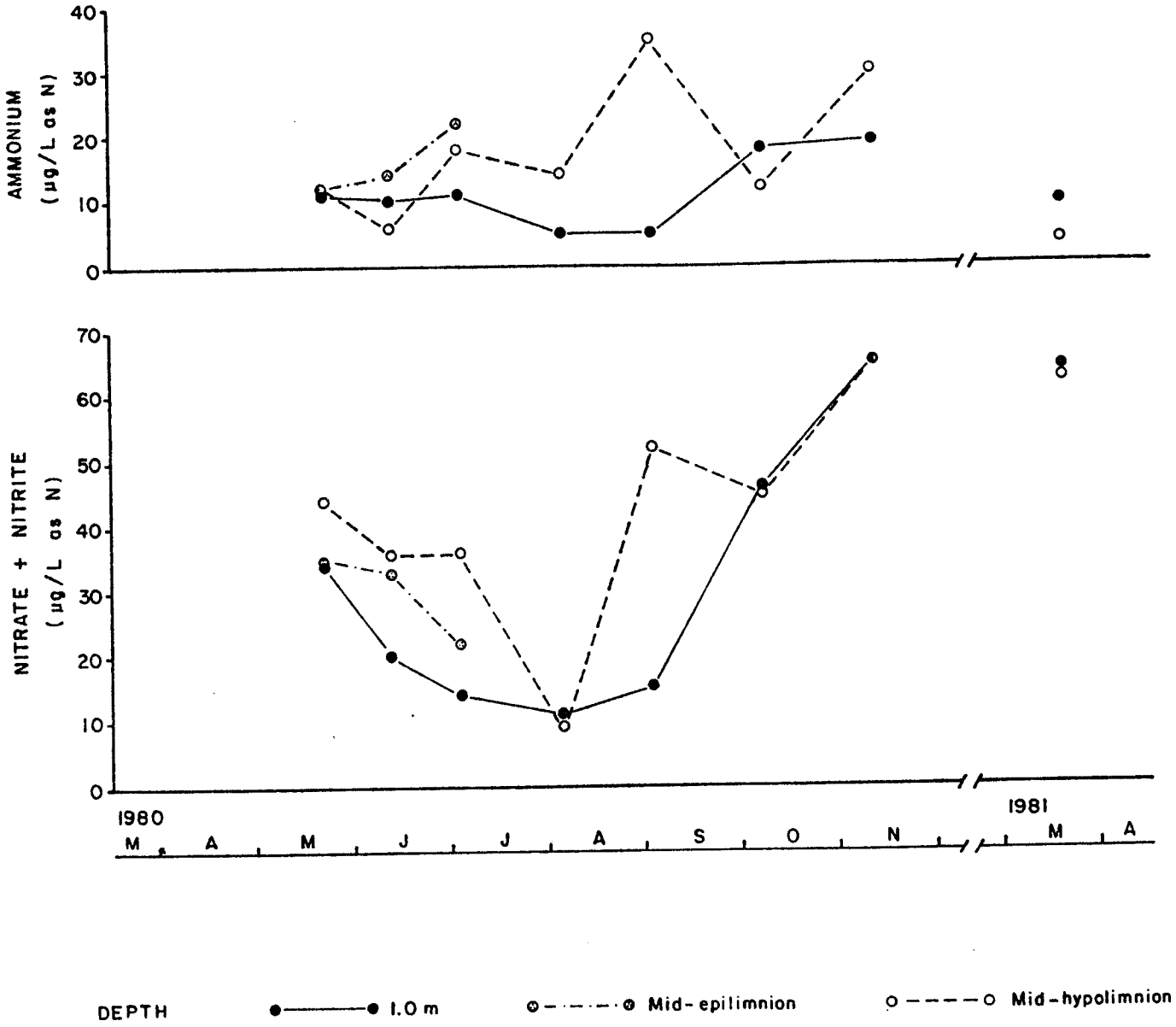


"Sea Lion Cove" X, sampling station; 1980-81.

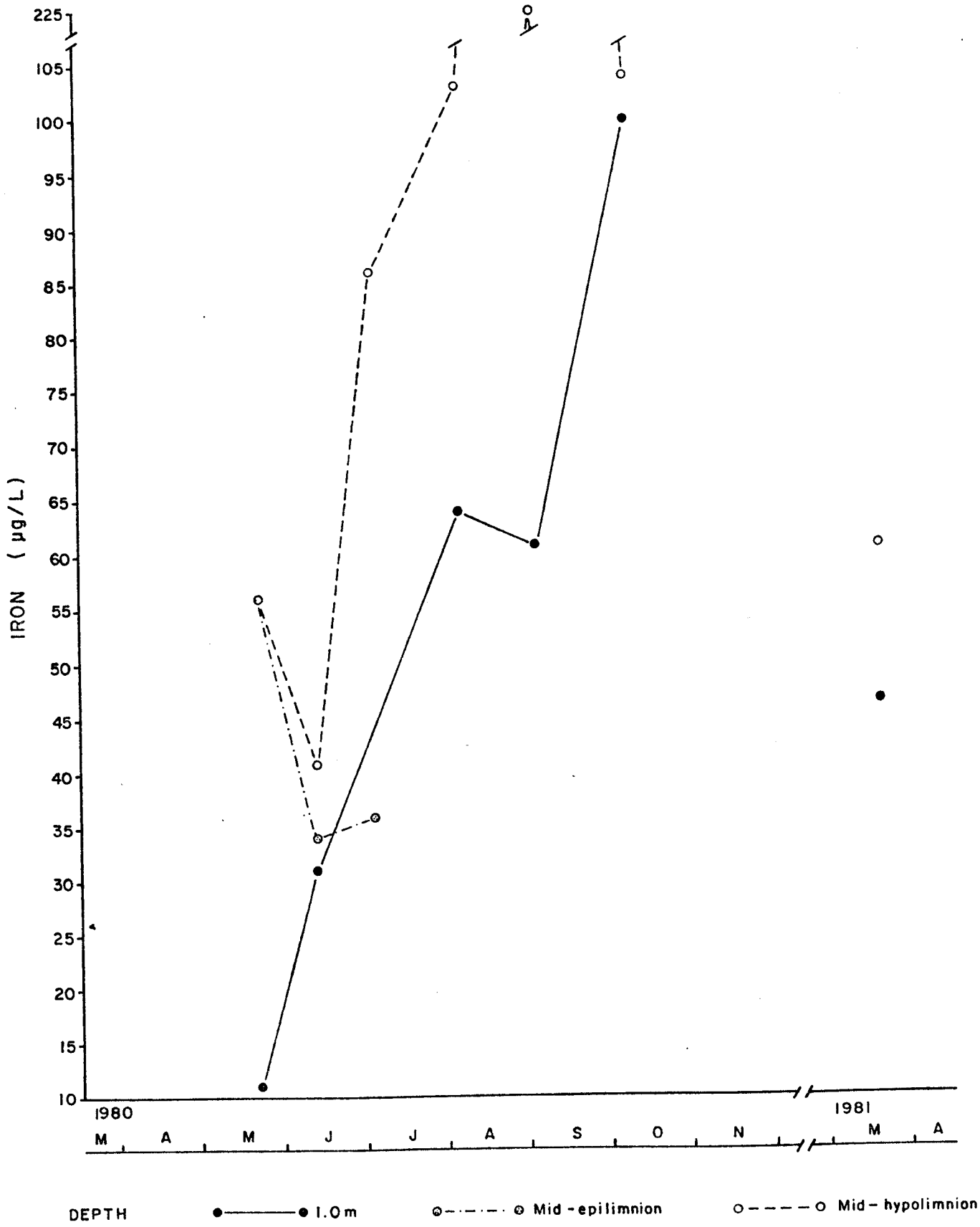


Lion Cove Lake

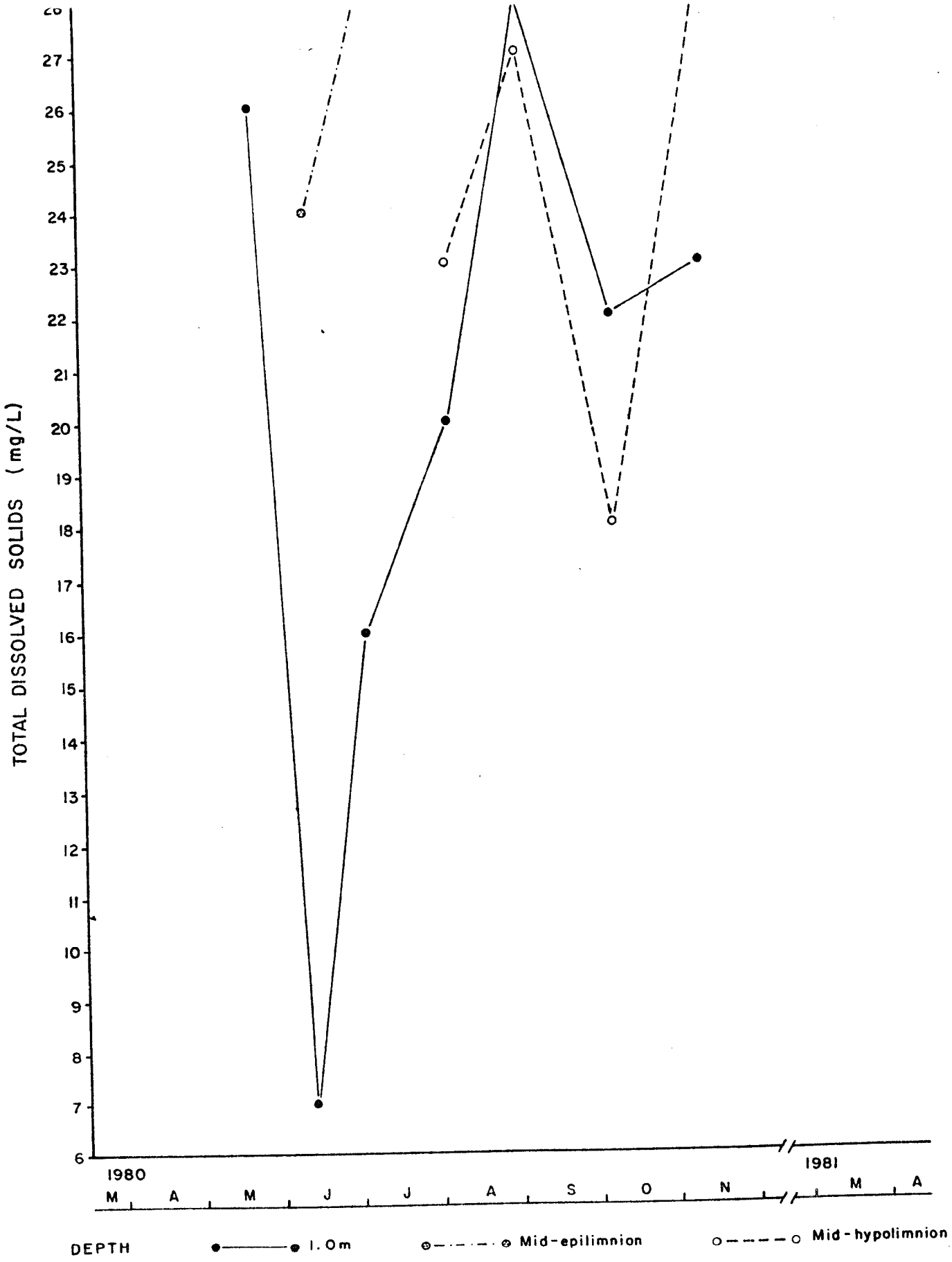
X, sampling station, 1980-81



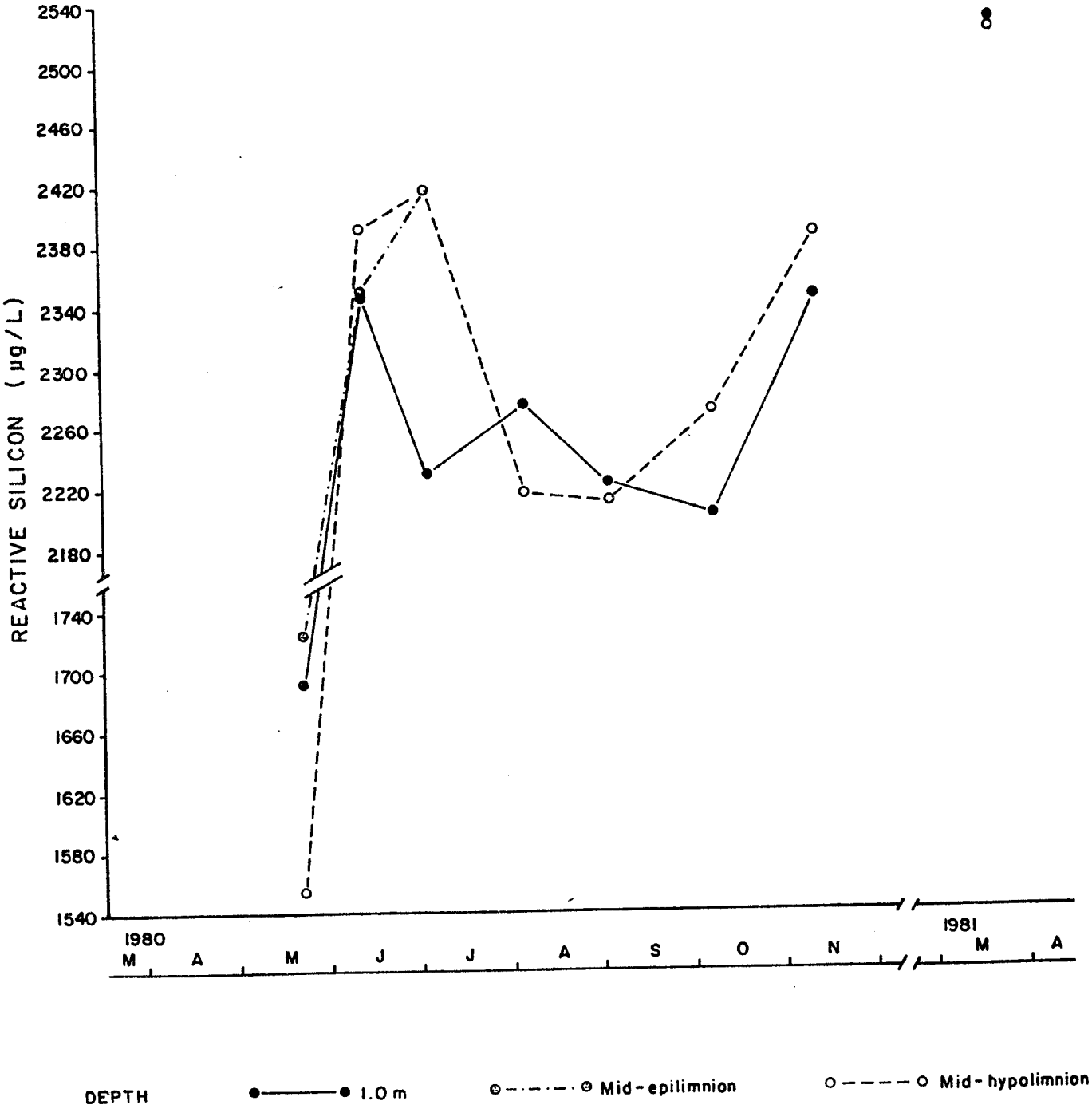
"Sea Lion Cove" Lake; X, sampling station; 1980-81.



"Sea Lion Cove" Lake; 1, sampling station; 1980-81.



"Sea Lion Cove" Lake; X, sampling station. 1980-81.



"Sea Lion Cove" Lake; X_1 sampling station; 1980-81.

CHEMICAL & GEOLOGICAL LABORATORIES OF ALASKA

P.O. BOX 4-1276
Anchorage, Alaska 99509

TELEPHONE (907)-279-4014
274-3364

ANCHORAGE INDUSTRIAL CENTER
5633 B Street

ANALYTICAL REPORT

(Unnamed lake) 113-61-005

ISTOMER NSRAA, Inc. SAMPLE LOCATION: Sea Lion Cove

ATE COLLECTED 5-21-80 TIME COLLECTED: 1100

AMPLED BY Staley SOURCE 1M

EMARKS Cruise 113-61-05

FOR LAB USE ONLY
RECVD. BY SE LAB # 4157-2
DATE RECEIVED 6-24-80
DATE COMPLETED 6-27-80
DATE REPORTED 6-27-80
SIGNED Archie L. Green

	mg/l		mg/l		mg/l
]Ag, Silver	<0.01	[]P, Phosphorous	<0.05	[]Cyanide	
]Al, Aluminum	<0.05	[]Pb, Lead	<0.05	[]Sulfate	
]As, Arsenic	<0.05	[]Pt, Platinum	<0.05	[]Phenol	
]Au, Gold	<0.05	[]Sb, Antimony	<0.10	[]Total Dissolved Solids	
]B, Boron	<0.05	[]Se, Selenium	<0.05	[]Total Volatile Solids	
]Ba, Barium	<0.05	[]Si, Silicon	2.0	[]Suspended Solids	
]Bi, Bismuth	<0.05	[]Sn, Tin	<0.05	[]Volatile Suspended Solids	
]Ca, Calcium	0.93	[]Sr, Strontium	<0.05	[]Hardness as $CaCO_3$	
]Cd, Cadmium	<0.01	[]Ti, Titanium	<0.05	[]Alkalinity as $CaCO_3$	
]Co, Cobalt	<0.05	[]W, Tungsten	<0.10	[]	
]Cr, Chromium	<0.05	[]V, Vanadium	<0.05	[]	
[]Cu, Copper	<0.05	[]Zn, Zinc	<0.05	[]	
[]Fe, Iron	<0.05	[]Zr, Zirconium	<0.05	[]	
				* * * * * *	
[]Hg, Mercury	<0.05	[]Ammonia Nitrogen-N		[]mmhos Conductivity	
[]K, Potassium	<1	[]Kjedahl Nitrogen-N		[]pH Units	
[]Mg, Magnesium	0.27	[]Nitrate-N		[]Turbidity NTU	
[]Mn, Manganese	<0.05	[]Nitrite-N		[]Color Units	
[]Mo, Molybdenum	<0.05	[]Phosphorus (Ortho)-P		[]T.Coliform/100ml	
[]Na, Sodium	2.7	[]Chloride		[]	
[]Ni, Nickel	<0.05	[]Fluoride		[]	

CHEMICAL & GEOLOGICAL LABORATORIES OF ALASKA, INC.

TELEPHONE (907)-279-4014
274-3364

ANCHORAGE INDUSTRIAL CENTER
5633 B Street

ANALYTICAL REPORT

CUSTOMER NSRAA

SAMPLE LOCATION: Sea Lion Cove, Unnamed Lake, Alaska 113-61-005

DATE COLLECTED 11-11-80 TIME COLLECTED: ---

SAMPLED BY --- SOURCE Water Sample 1.0m

REMARKS

FOR LAB USE ONLY

RECVD. BY GY LAB # 6132-5

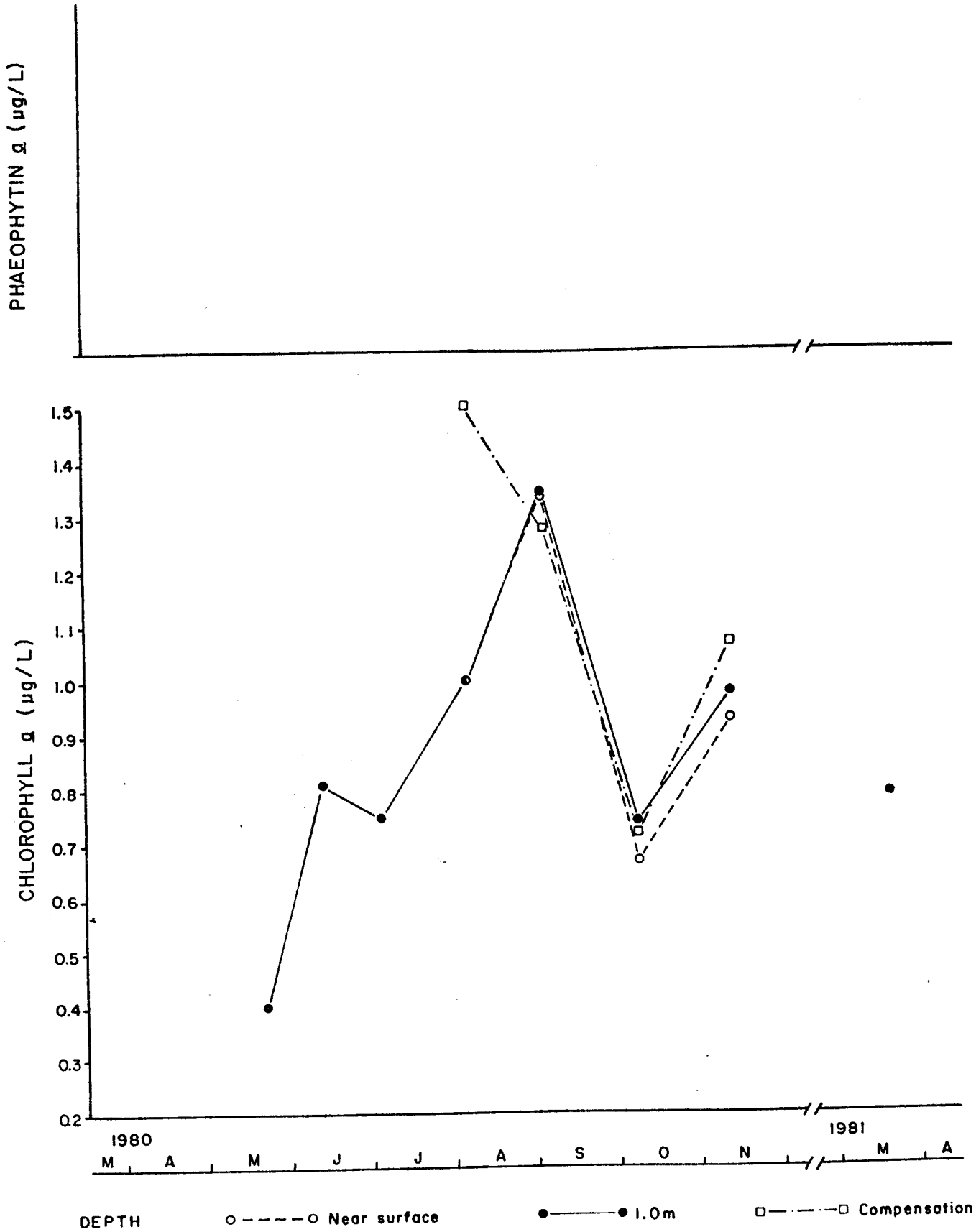
DATE RECEIVED 1-6-81

DATE COMPLETED 1-7-81

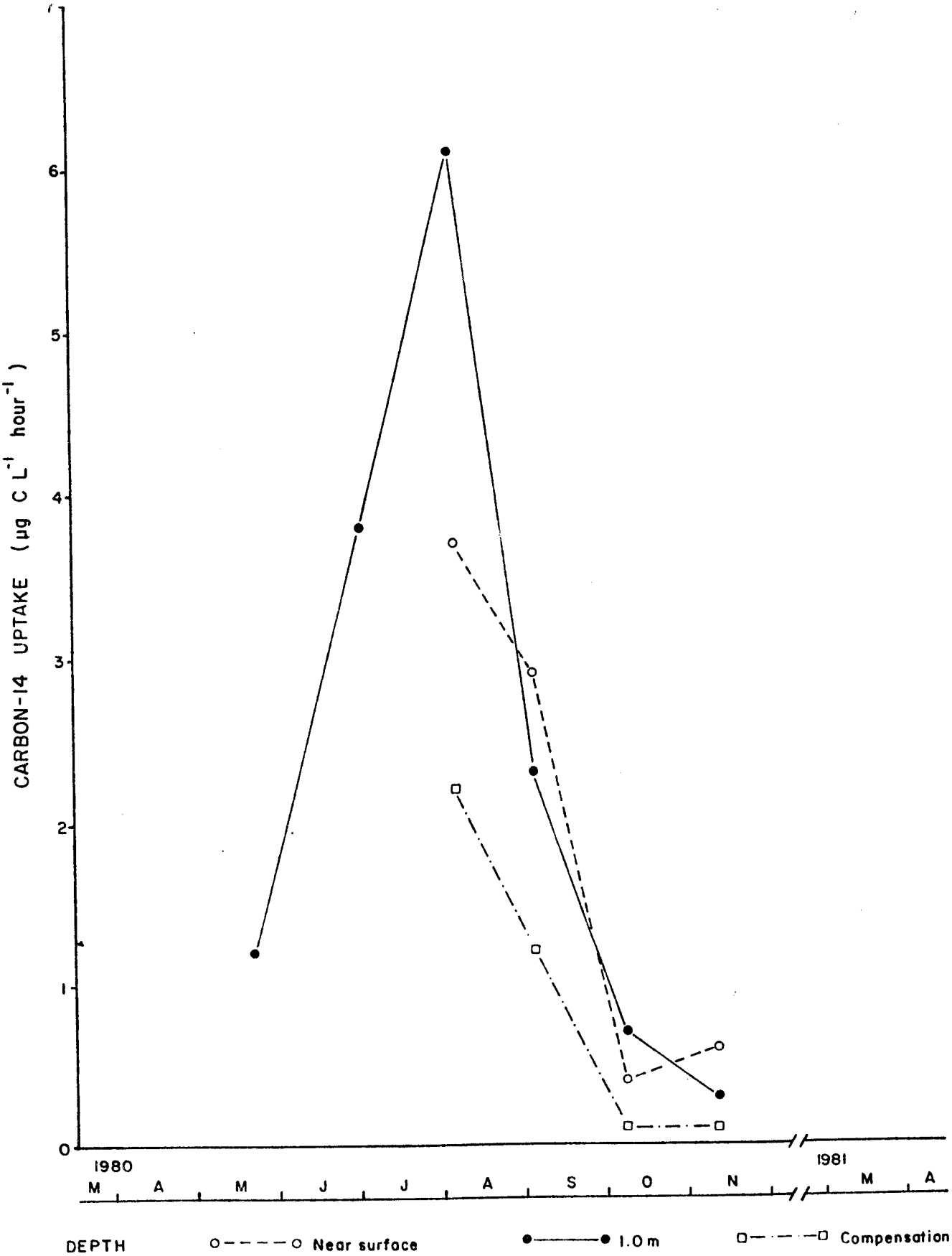
DATE REPORTED 1-7-81

SIGNED Archie L. Green

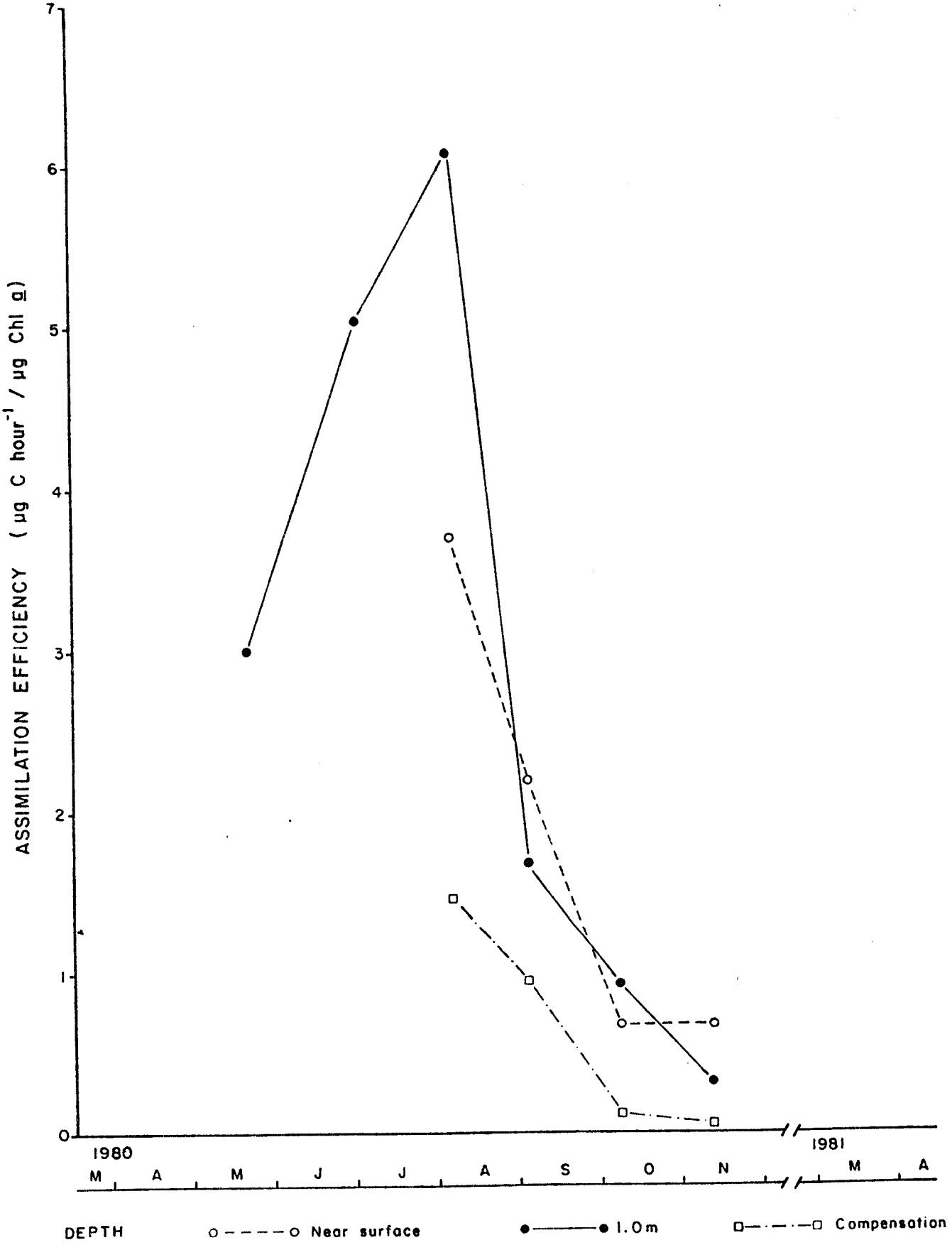
	mg/l		mg/l		mg/l
[]Ag, Silver	<0.05	[]P, Phosphorous	<0.05	[]Cyanide	
[]Al, Aluminum	0.14	[]Pb, Lead	<0.05	[]Sulfate	
[]As, Arsenic	<0.05	[]Pt, Platinum	<0.05	[]Phenol	
[]Au, Gold	<0.05	[]Sb, Antimony	<0.10	[]Total Dissolved Solids	
[]B, Boron	<0.05	[]Se, Selenium	<0.05	[]Total Volatile Solids	
[]Ba, Barium	<0.05	[]Si, Silicon	2.1	[]Suspended Solids	
[]Bi, Bismuth	<0.05	[]Sn, Tin	<0.10	[]Volatile Suspended Solids	
[]Ca, Calcium	0.90	[]Sr, Strontium	<0.05	[]Hardness as $CaCO_3$	
[]Cd, Cadmium	<0.01	[]Ti, Titanium	<0.05	[]Alkalinity as $CaCO_3$	
[]Co, Cobalt	<0.05	[]W, Tungsten	<1	[]	
[]Cr, Chromium	<0.05	[]V, Vanadium	<0.05	[]	
[]Cu, Copper	<0.05	[]Zn, Zinc	<0.05	[]	
[]Fe, Iron	0.10	[]Zr, Zirconium	<0.05	[]	
				* * * * * *	
[]Hg, Mercury	<0.05	[]Ammonia Nitrogen-N		[]mmhos Conductivity	
[]K, Potassium	2.6	[]Kjedahl Nitrogen-N		[]pH Units	
[]Mg, Magnesium	0.58	[]Nitrate-N		[]Turbidity NTU	
[]Mn, Manganese	<0.05	[]Nitrite-N		[]Color Units	
[]Mo, Molybdenum	<0.05	[]Phosphorus (Ortho)-P		[]T.Coliform/100ml	
[]Na, Sodium	2.2	[]Chloride		[]	
[]Ni, Nickel	<0.05	[]Fluoride		[]	



"Sea Lion Cove" Lake; X, sampling station, phytoplankton; 1980-81.



"Sea Lion Cove" Lake: Y, sampling station, 1980.



"Sea Lion Cove" Lake; X, sampling station, 1980.

Zooplankton density in an unnamed lake draining to Sea Lion Cove, Kruzof Island, in terms of number per m^2 and (per m^3) as estimated from vertical tow samples, 1980.

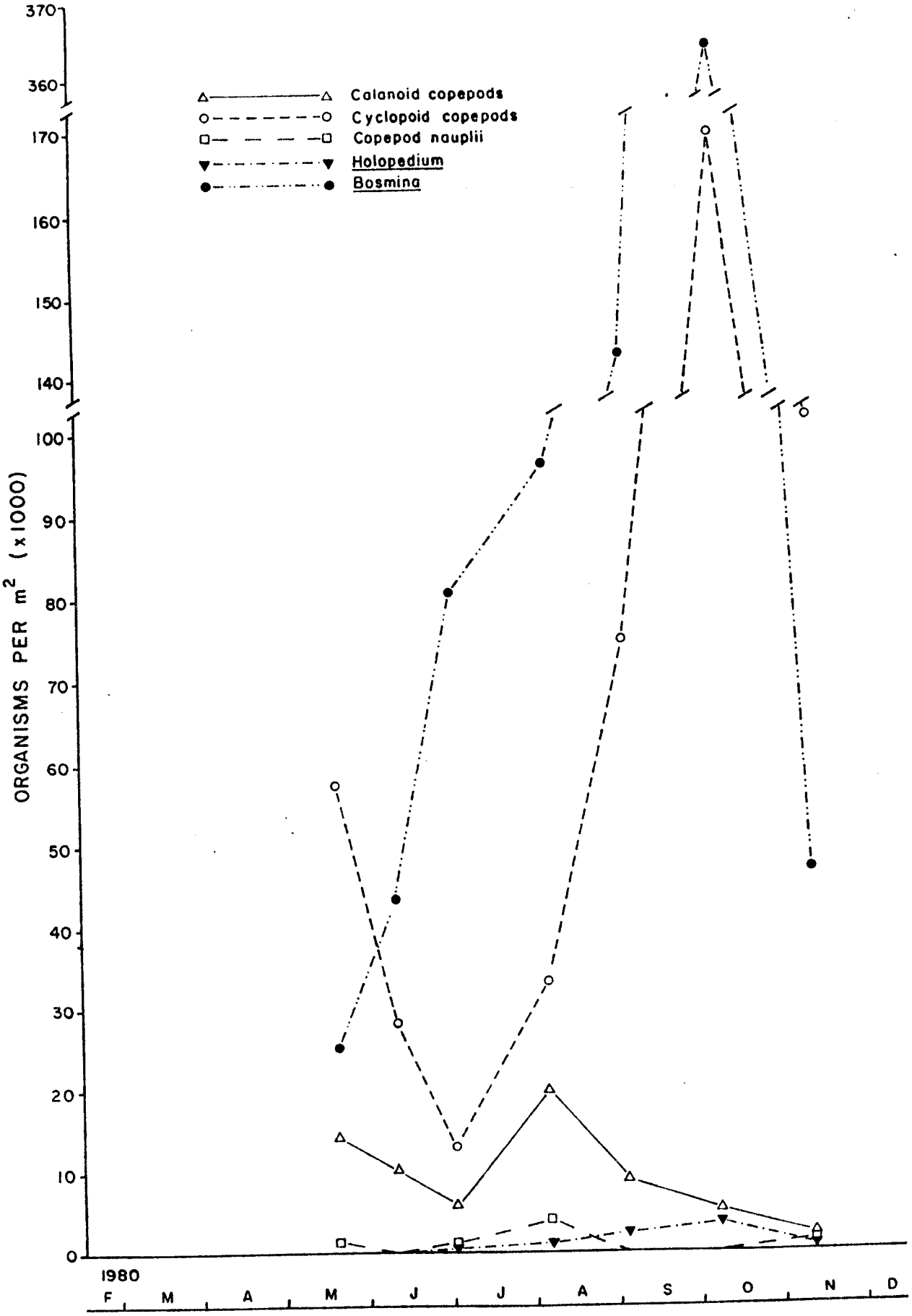
Sample date	Tow Depth (m)	Sum of large and preferred zooplankters	Copepoda			Cladocera		
			Calanoida	Cyclopoida	Nauplii	Bosmina	Holopedium	Chydorus
20 May	10.5	14,009 (1,334)	14,009 (1,334)	57,310 (5,458)	1,274 (121)	25,089 (2,389)	-0- (0)	-0- (0)
10 June	10.0	10,188 (1,019)	10,188 (1,019)	28,222 (2,822)	-0- (0)	43,505 (4,350)	-0- (0)	-0- (0)
1 July	10.0	5,807 (581)	5,807 (581)	12,939 (1,294)	1,325 (132)	80,795 (8,080)	713 (71)	-0- (0)
5 August	11.0	19,613 (1,783)	19,613 (1,783)	33,342 (3,031)	4,101 (378)	96,281 (8,753)	1,248 (108)	-0- (0)
3 September	10.0	8,915 (892)	8,915 (892)	74,885 (7,489)	-0- (0)	142,639 (14,264)	2,318 (232)	-0- (0)
7 October	10.0	5,349 (535)	5,349 (535)	169,562 (16,956)	-0- (0)	363,729 (36,373)	3,744 (374)	-0- (0)
11 November	10.0	2,547 (255)	2,547 (255)	101,885 (10,188)	1,656 (166)	47,122 (4,712)	891 (89)	-0- (0)

NSRAA/11/21/83/KL

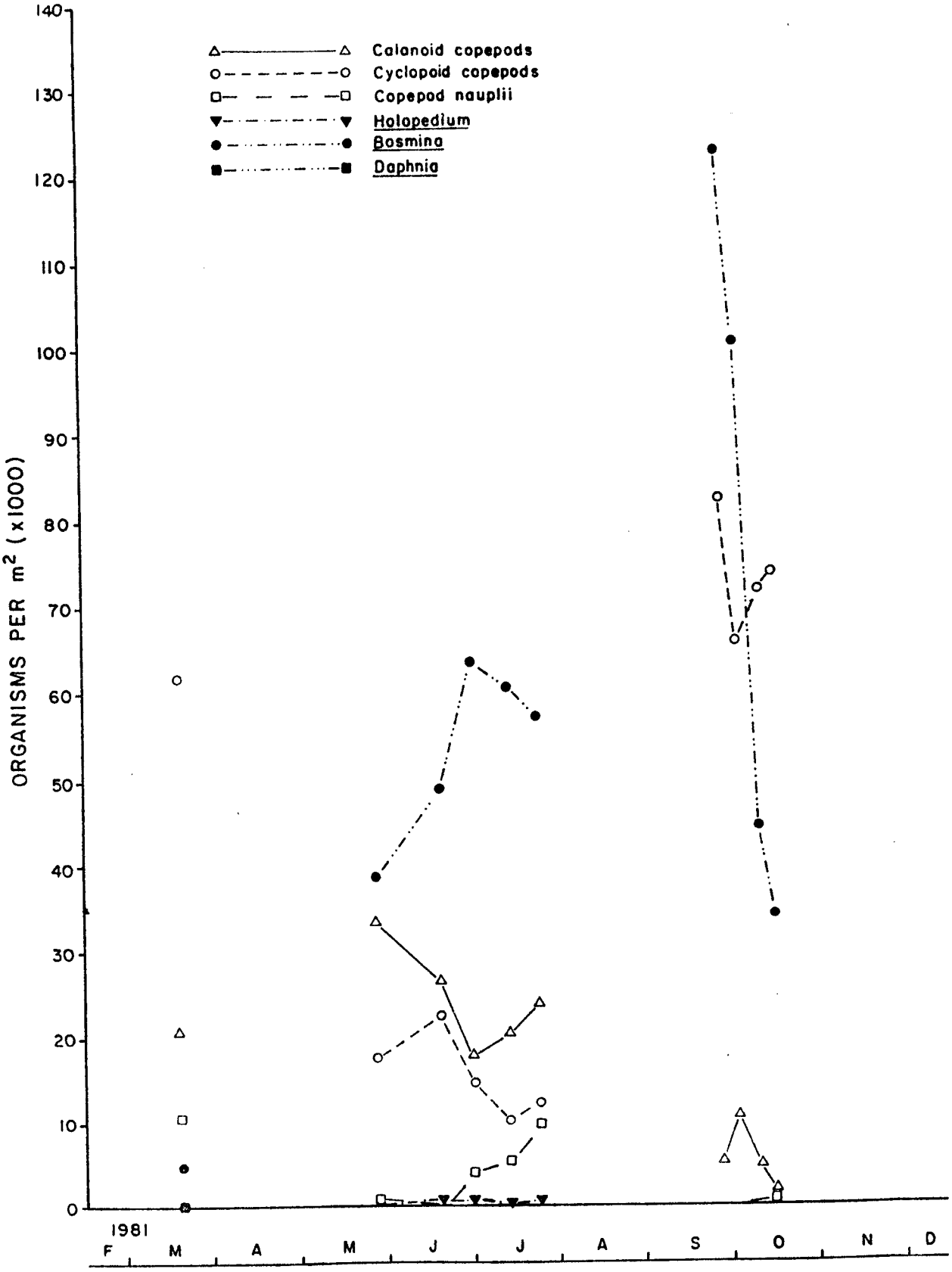
Zooplankton density in an unnamed lake draining to Sea Lion Cove, in terms of number per m^2 and (per m^3) as estimated from vertical tow samples, 1981.

Sample date	Tow Depth (m)	Sum of large and preferred zooplankters	Copepoda			Cladocera			
			Calanoida	Cyclopoida	Nauplii	Daphnia	Bosmina	Holopedium	Chydorus
19 March	10.0	20,846 (2,084)	20,759 (2,076)	62,532 (6,253)	10,570 (1,057)	87 (9)	4,712 (471)	-0- (0)	128 (13)
27 May	10.0	33,326 (3,333)	33,326 (3,333)	17,407 (1,741)	637 (64)	-0- (0)	38,844 (3,884)	-0- (0)	-0- (0)
19 June	10.0	26,447 (2,645)	26,447 (2,645)	22,288 (2,229)	-0- (0)	-0- (0)	49,032 (4,903)	596 (60)	-0- (0)
30 June	9.5	17,830 (1,877)	17,830 (1,877)	14,432 (1,519)	3,820 (402)	-0- (0)	63,466 (6,680)	637 (68)	-0- (0)
13 July	10.0	20,377 (2,038)	20,377 (2,038)	9,974 (997)	5,094 (509)	-0- (0)	60,920 (6,092)	107 (11)	-0- (0)
24 July	10.0	23,772 (2,377)	23,772 (2,377)	12,099 (1,210)	9,340 (934)	-0- (0)	57,096 (5,710)	426 (43)	-0- (0)
27 September	10.0	5,094 (510)	5,094 (510)	82,358 (8,236)	-0- (0)	-0- (0)	122,898 (12,290)	-0- (0)	-0- (0)
2 October	10.0	10,402 (1,040)	10,402 (1,040)	65,800 (6,580)	-0- (0)	-0- (0)	100,611 (10,061)	-0- (0)	-0- (0)
10 October	10.0	4,796 (480)	4,796 (480)	71,574 (7,158)	-0- (0)	-0- (0)	44,404 (4,440)	-0- (0)	-0- (0)
16 October	10.0	1,699 (170)	1,699 (170)	73,867 (7,387)	510 (51)	-0- (0)	33,964 (3,396)	-0- (0)	-0- (0)

NSRAA/11/29/83/KL



"Sea Lion Cove" [illegible] 1980.



"Sea Lion Cove" Lake; X1 sampling station 1981

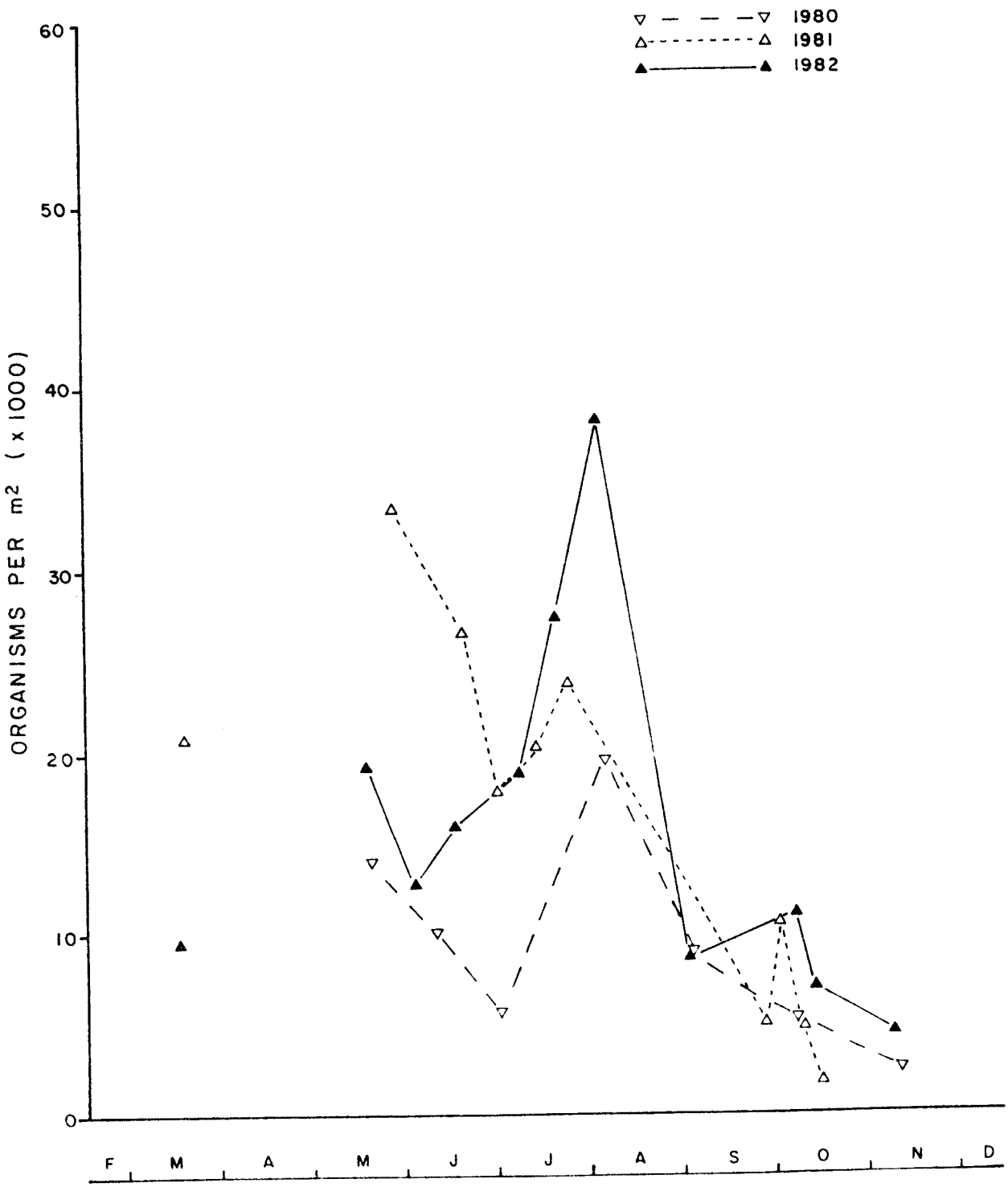
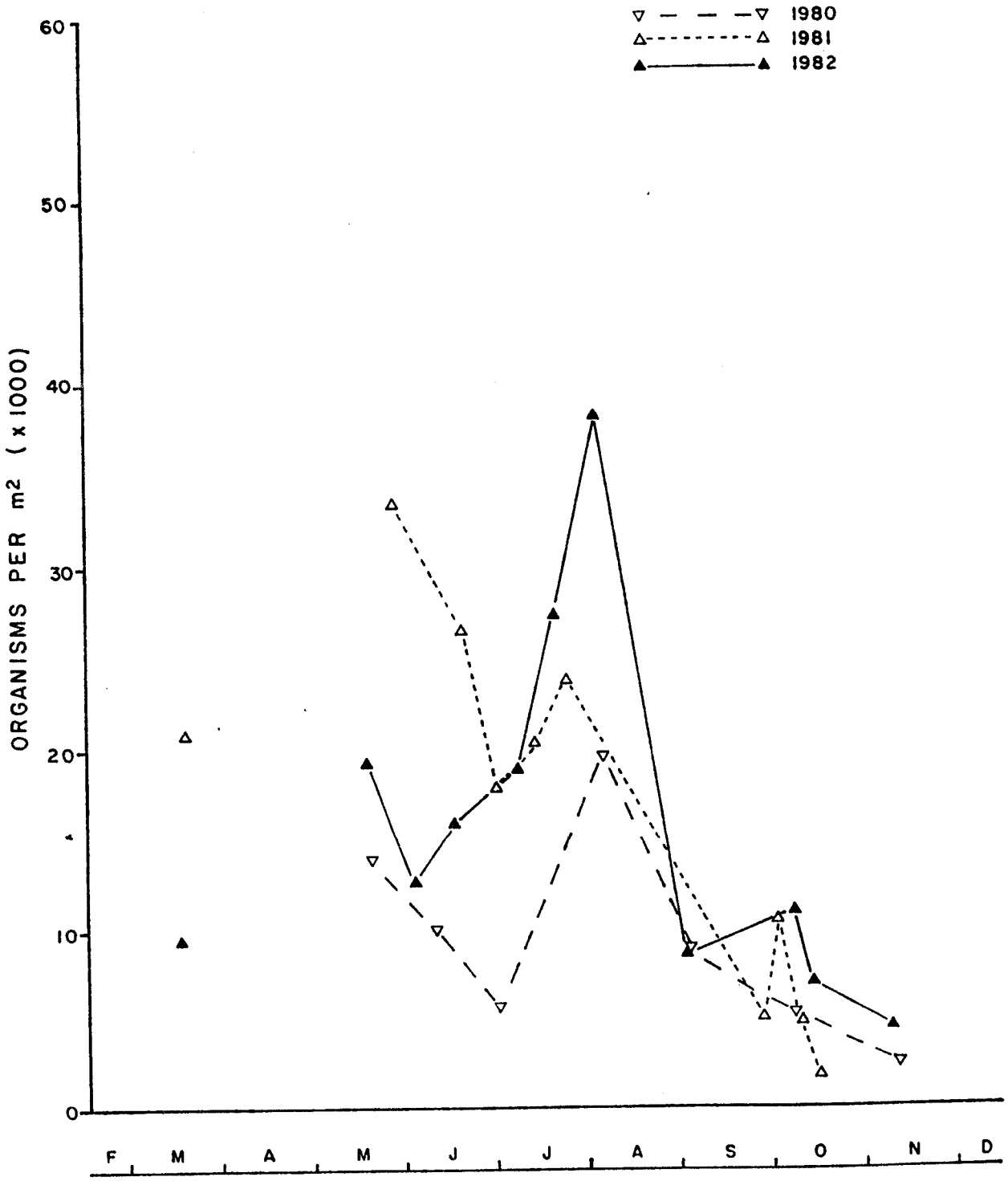


Figure 5. Seasonal variation in the abundance of calanoid copepods in Sea Lion Cove Lake as estimated from vertical-tow samples collected at the mid-lake station, 1980-82.



'Sea Lion Cove' [illegible] 80-82.