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DEVELOPMENT OF THE BOTTOM AND PERIPHYTIC INVERTEBRATE
FAUNA IN THE VOLTA MAN-MADE LAKE DURING THE FIRST YEARS
(1964-1969)

By

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Volume II

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Figures 1 to 134

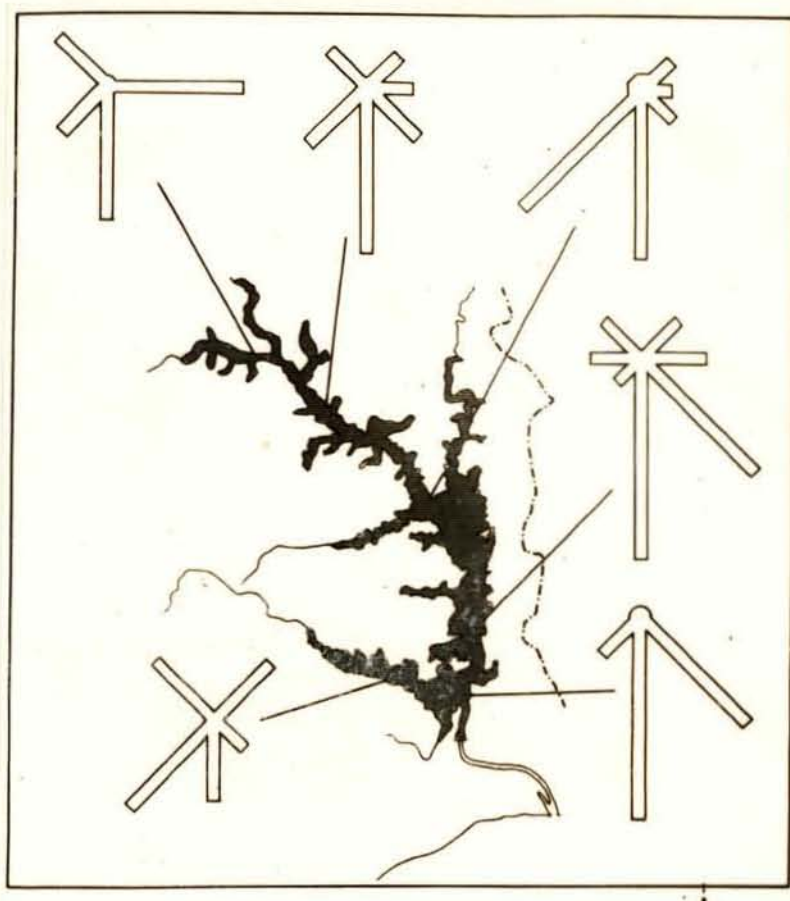


Fig.1. Windroses based on observations from December 1967 to January 1969 (07.00 and 21.00 hours).

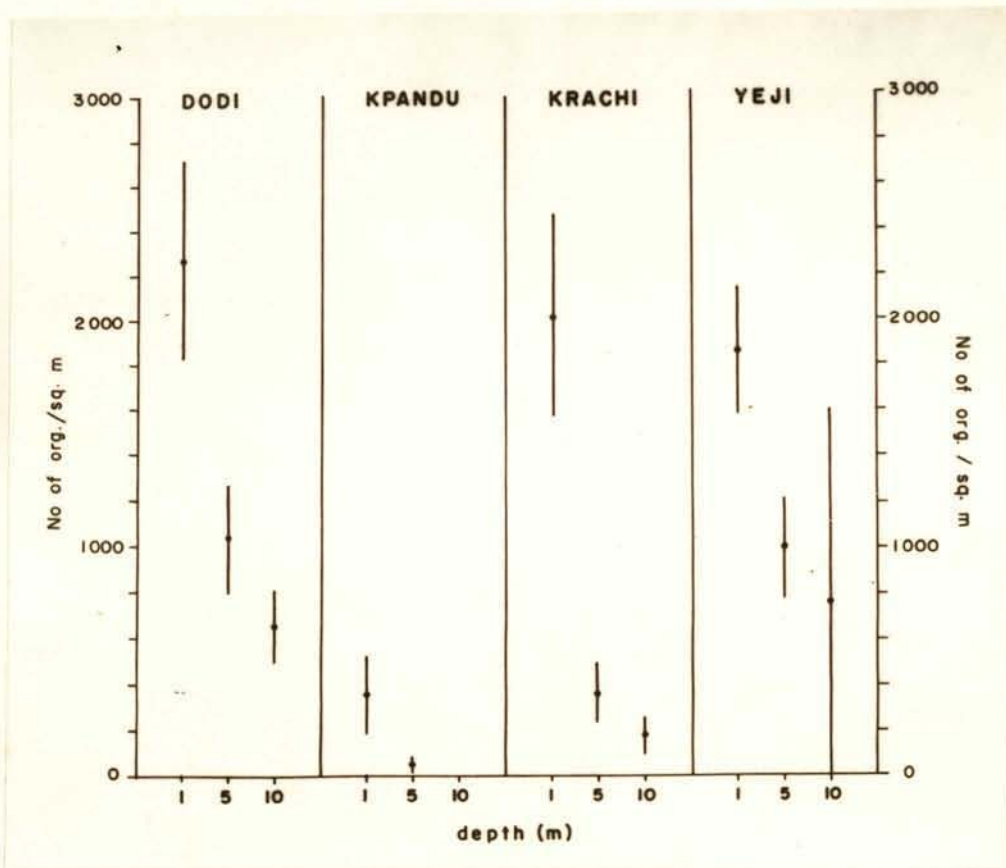


Fig.2. Mean numbers of the bottom fauna per m^2 at 1m, 5m and 10m depth at four stations, with confidence interval estimates for each depth (January 1968).

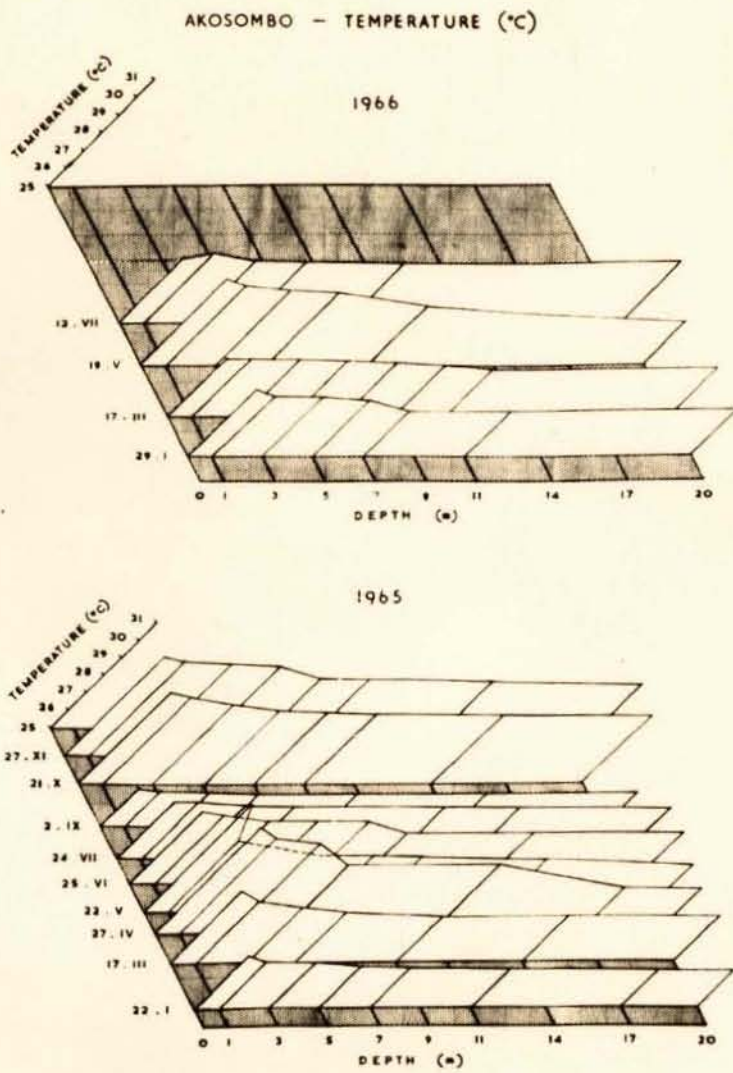


Fig.3. Temperature profiles at Akosombo in 1965 and 1966, recorded at the bottom.

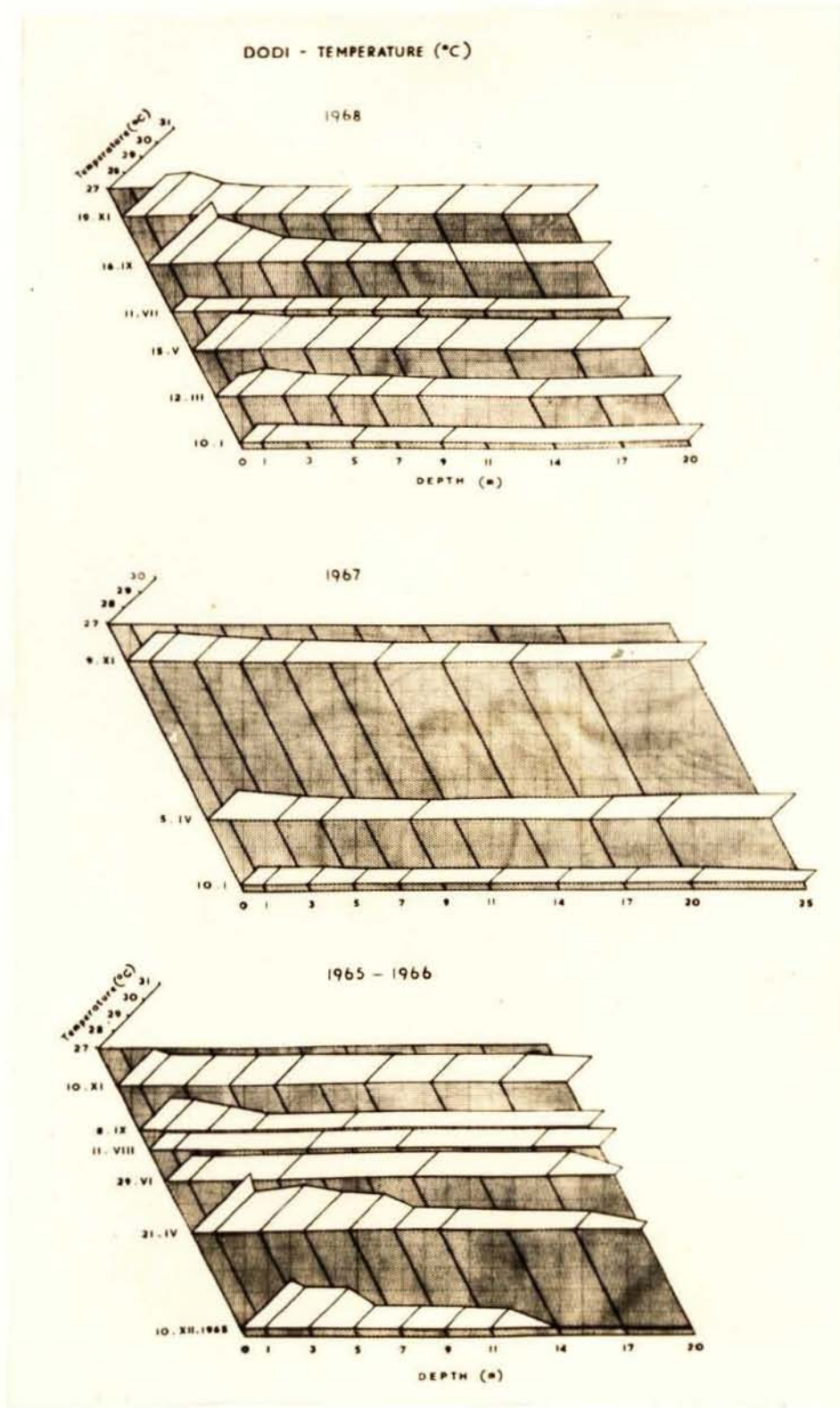


Fig.4. Temperature profiles at Dodi from 1965 to 1968, recorded at the bottom.

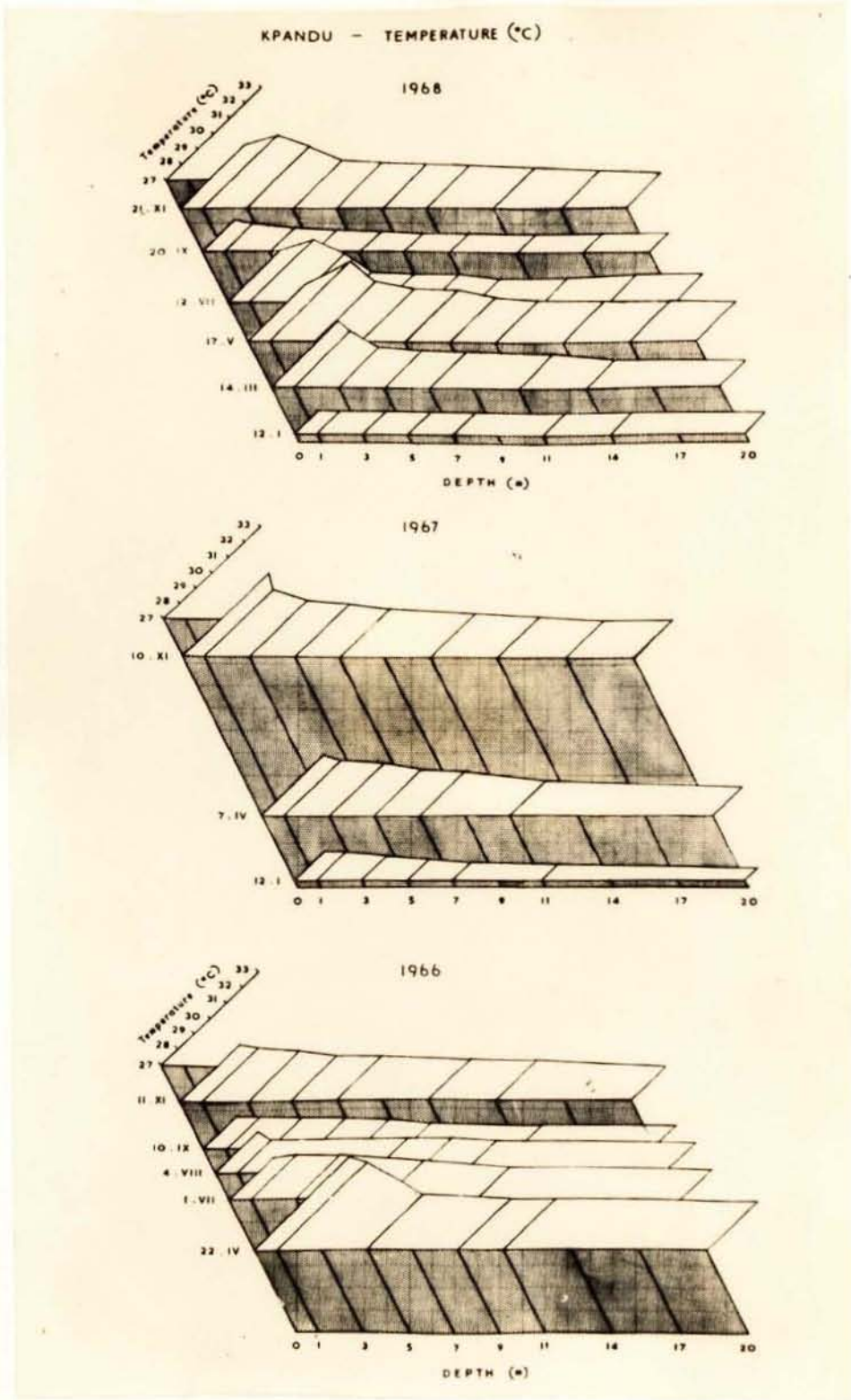


Fig.5. Temperature profiles at Kpandu from 1966 to 1968, recorded at the bottom.

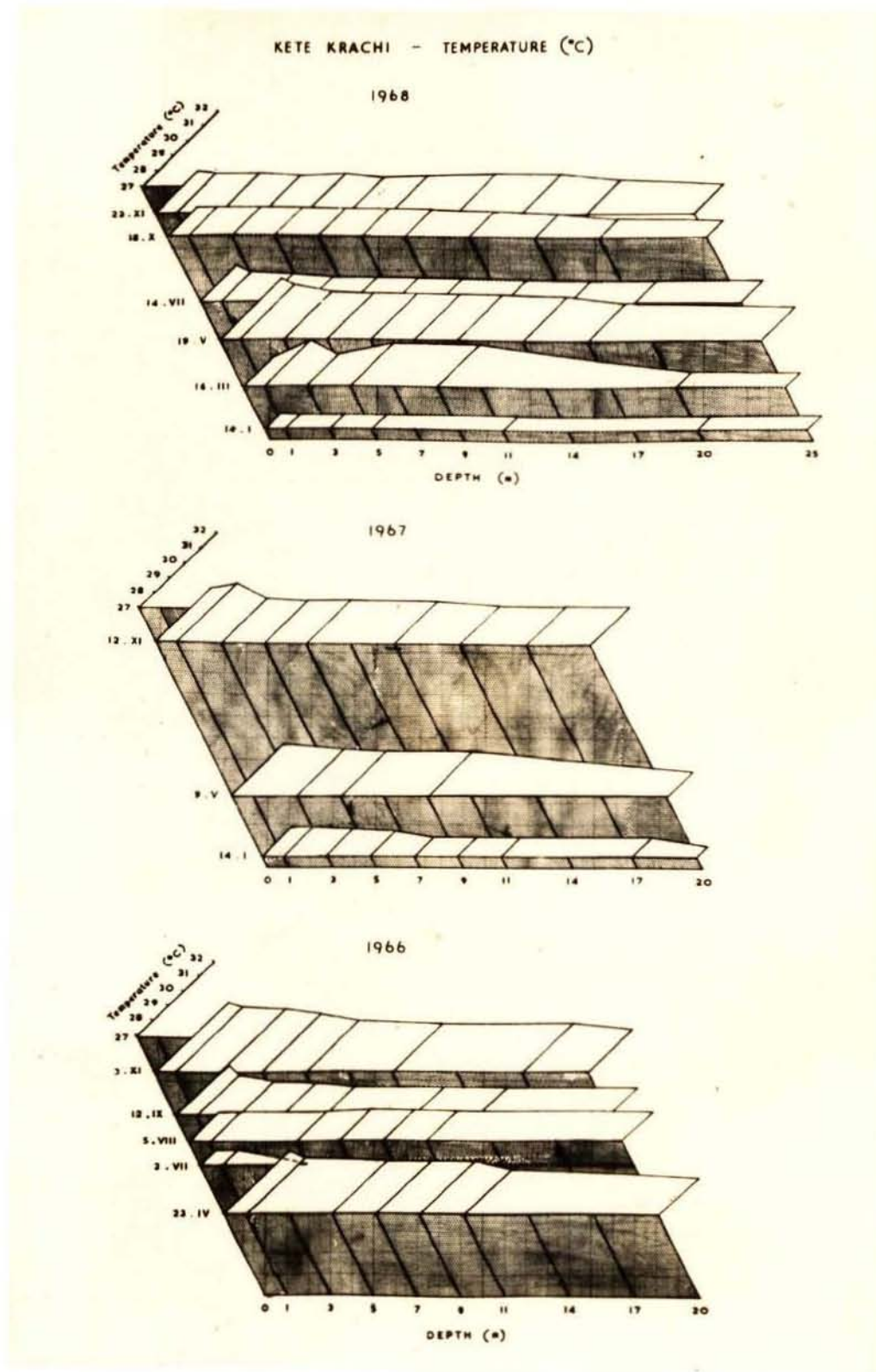


Fig.6. Temperature profiles at Kete Krachi from 1966 to 1968, recorded at the bottom.

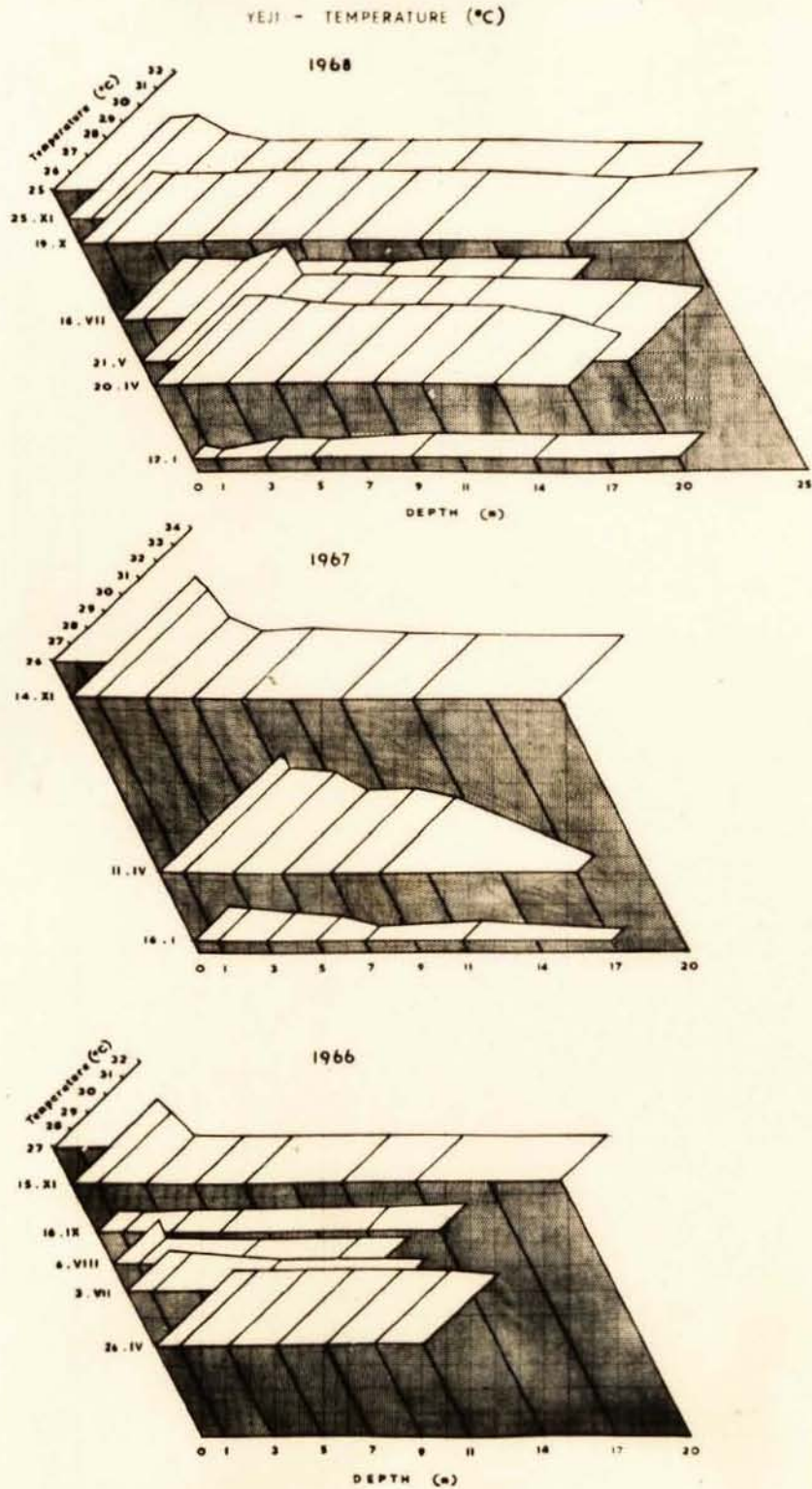


Fig.7. Temperature profiles at Yeji from 1966 to 1968, recorded at the bottom.

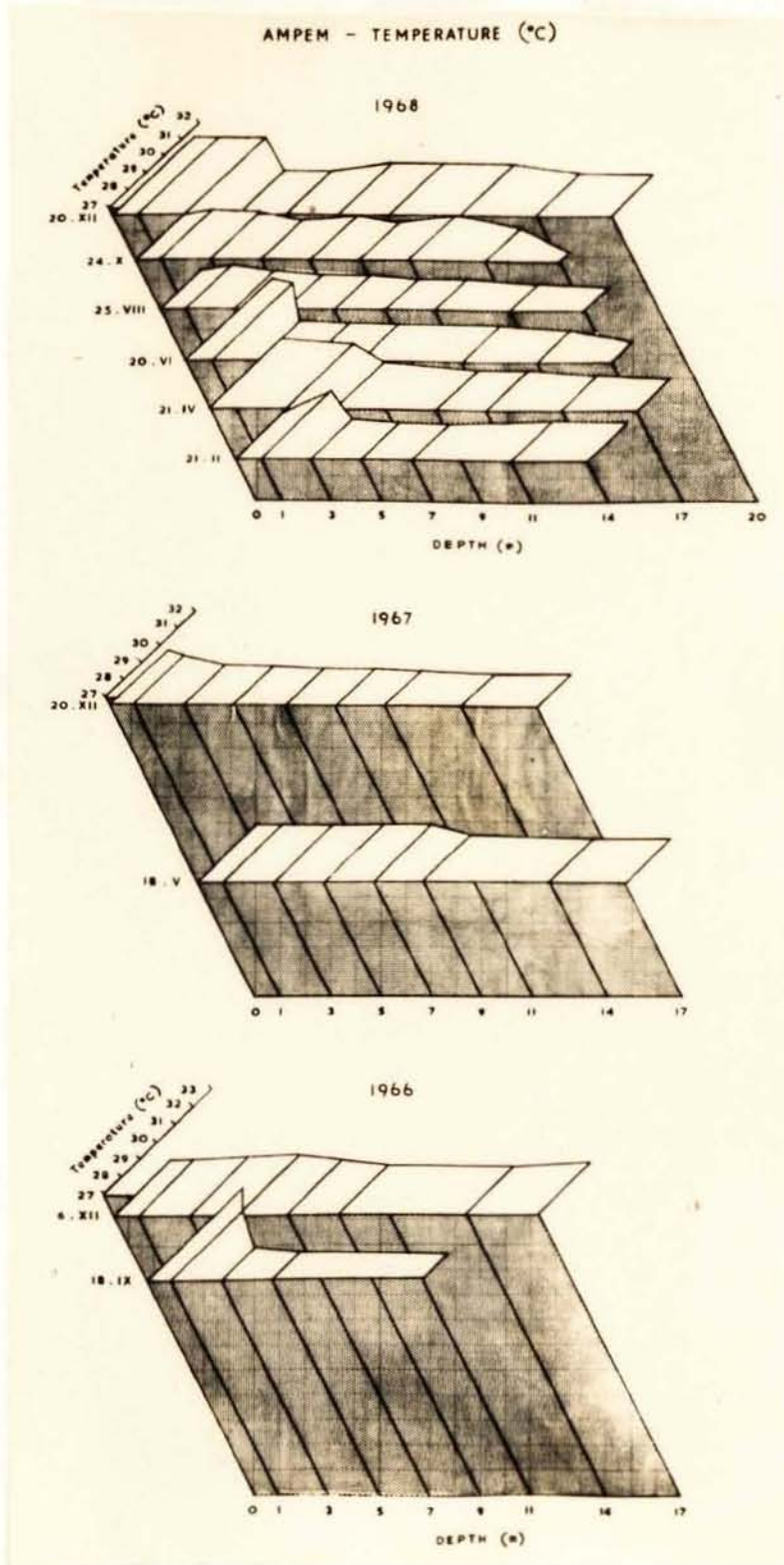


Fig.8. Temperature profiles at Ampem from 1966 to 1968, recorded at the bottom.

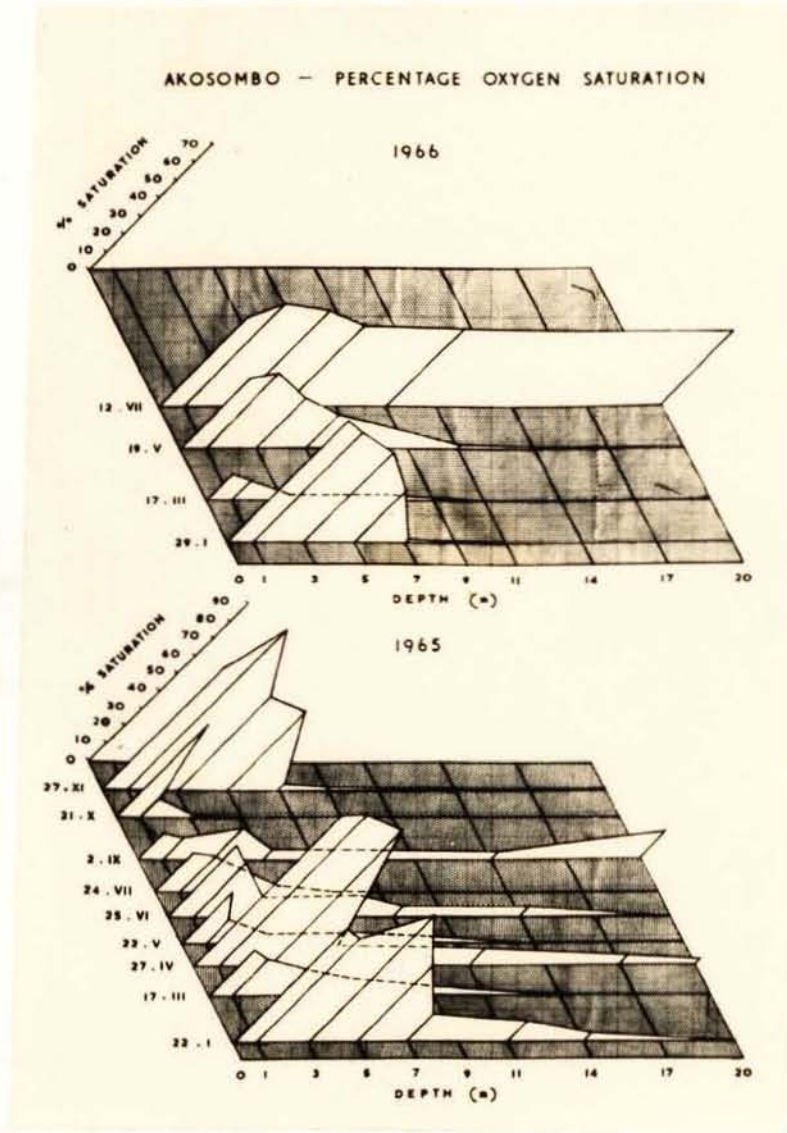


Fig.9. Oxygen profiles at Akosombo in 1965 and 1966, recorded at the bottom.

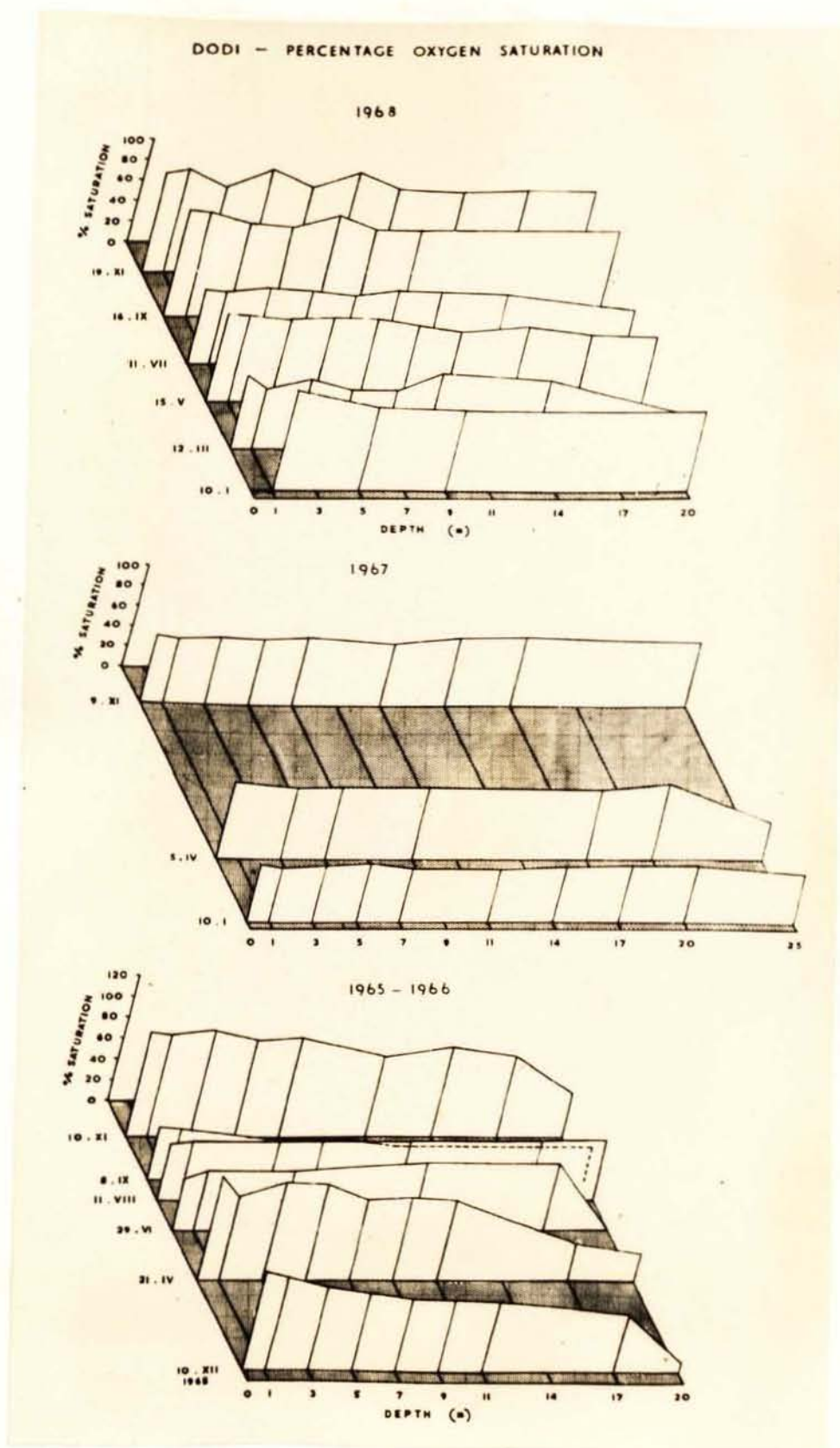


Fig.10. Oxygen profiles at Dodi from 1965 to 1968, recorded from the bottom.

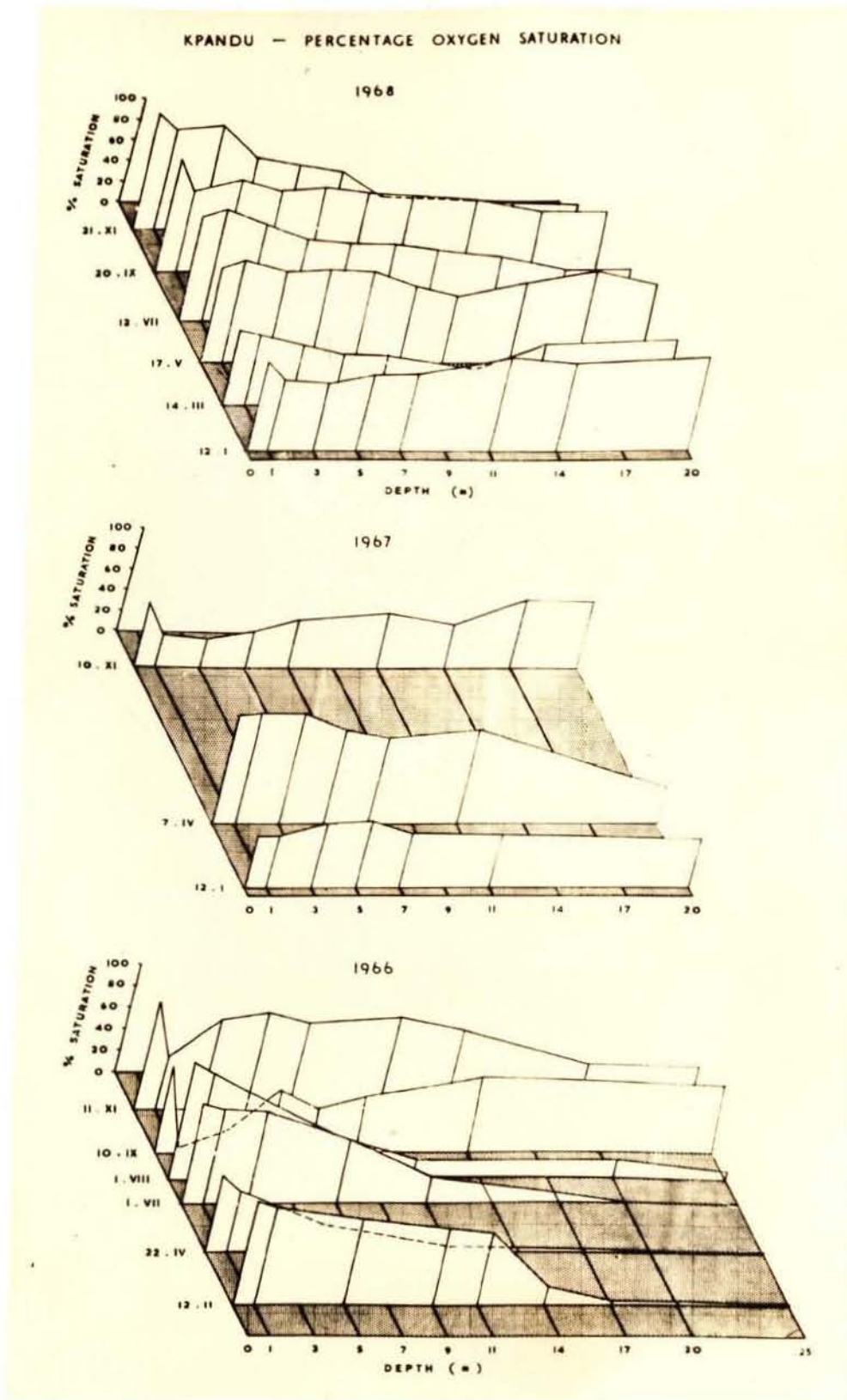


Fig.11. Oxygen profiles at Kpandu from 1966 to 1968, recorded at the bottom.

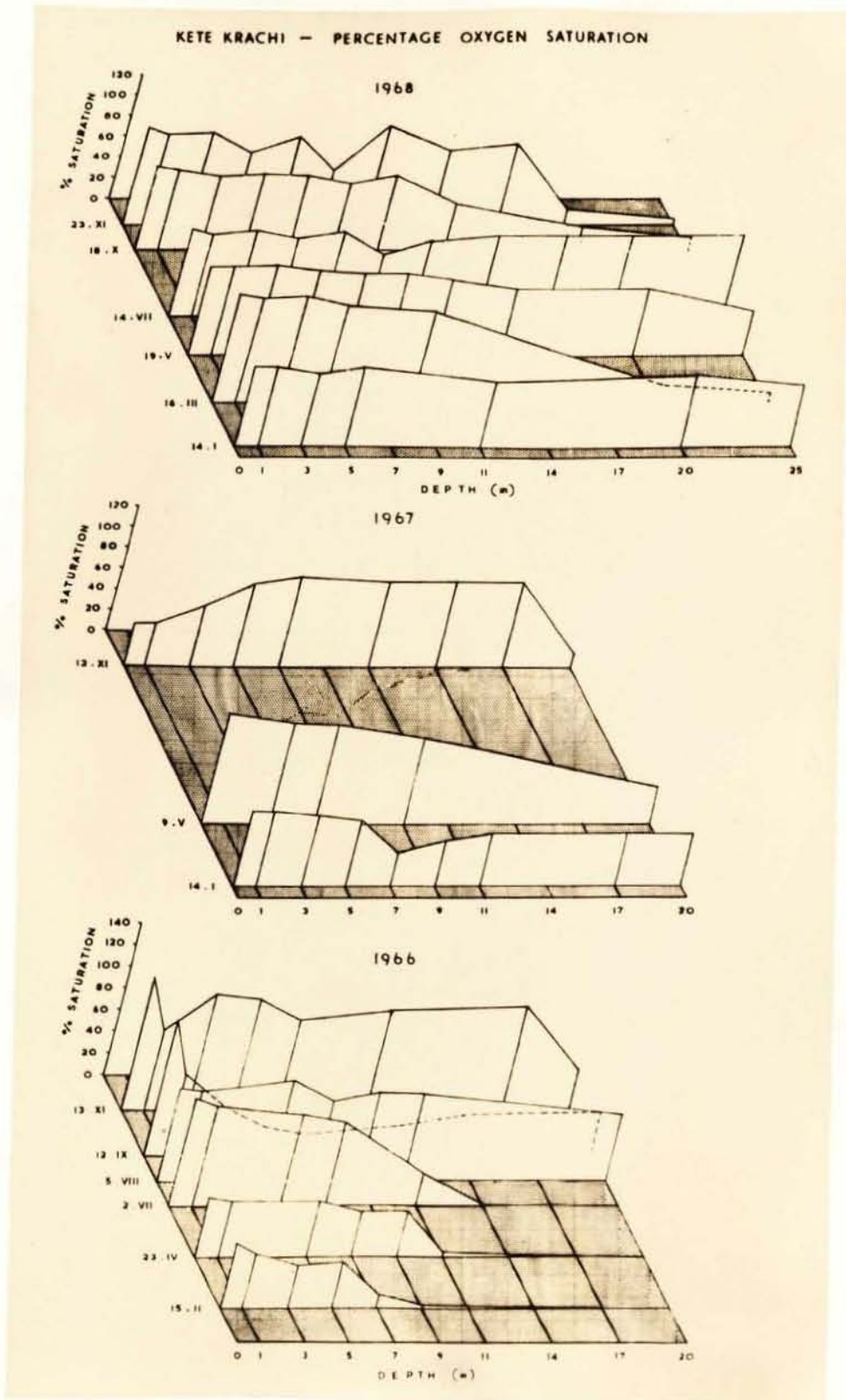


Fig.12. Oxygen profiles at Kete Krachi from 1966 to 1968, recorded at the bottom.

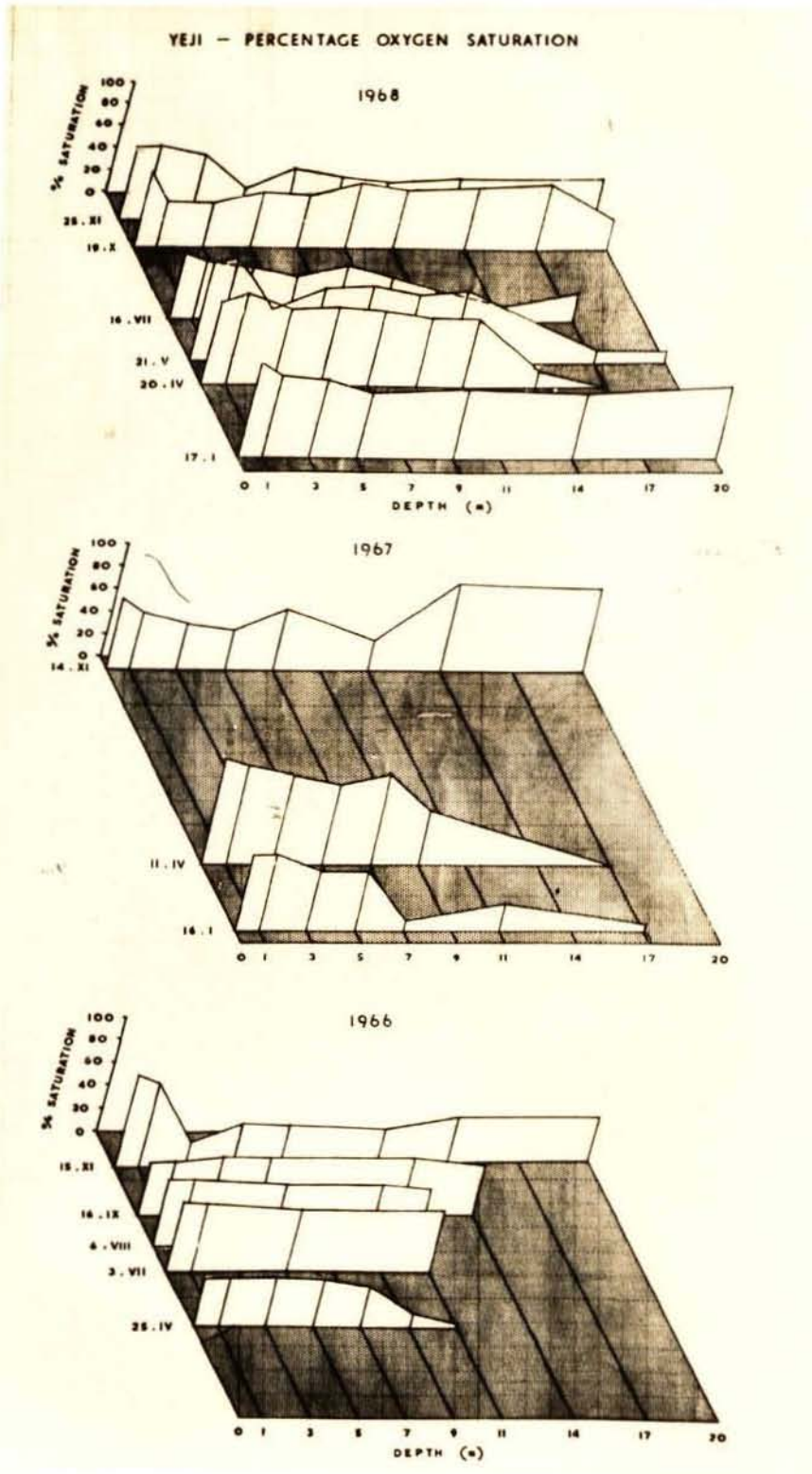


Fig.13. Oxygen profiles at Yeji from 1966 to 1968, recorded at the bottom.

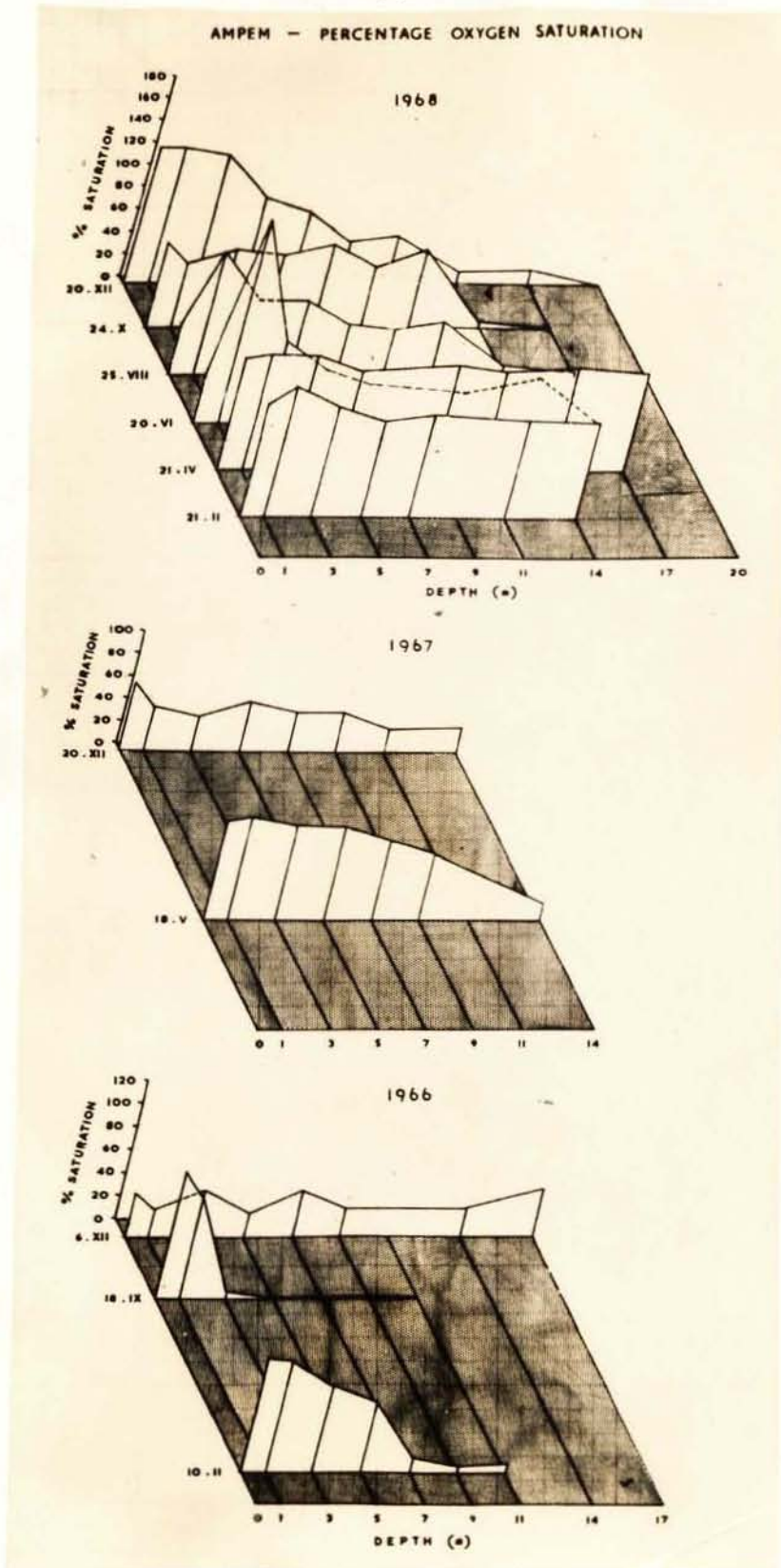


Fig.14. Oxygen profiles at Ampem from 1966 to 1968, recorded at the bottom.

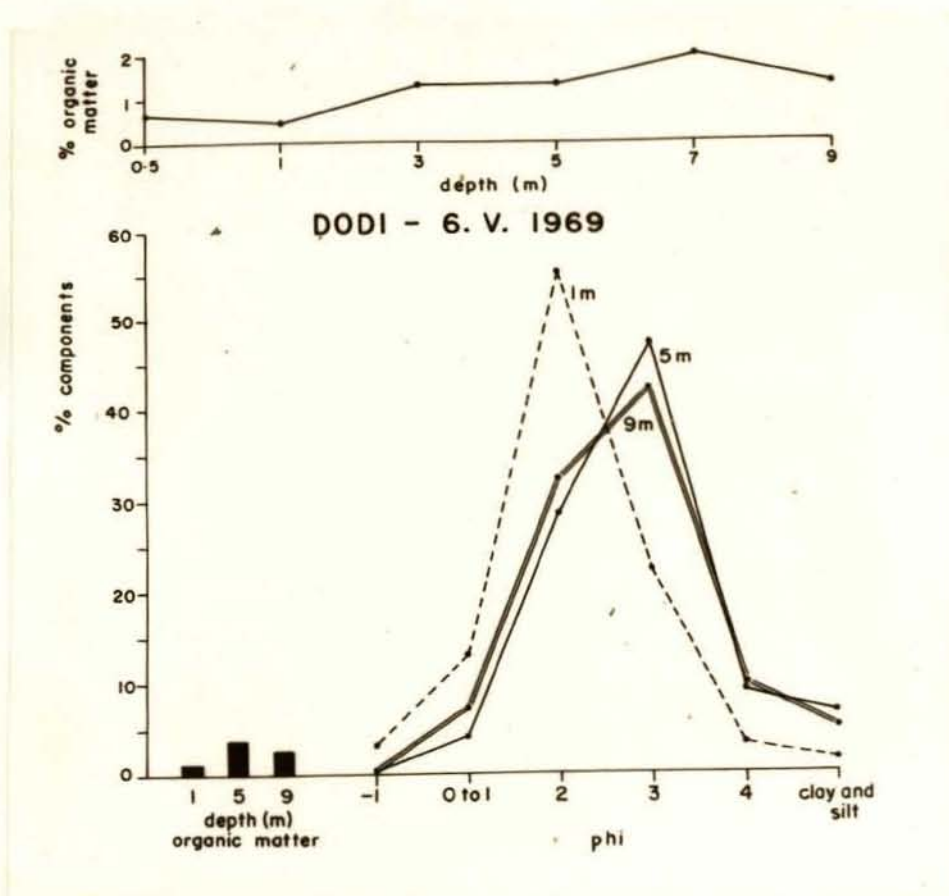


Fig.15. Percentage components and percentage organic matter of flooded soil at Dodi (for explanation see text).

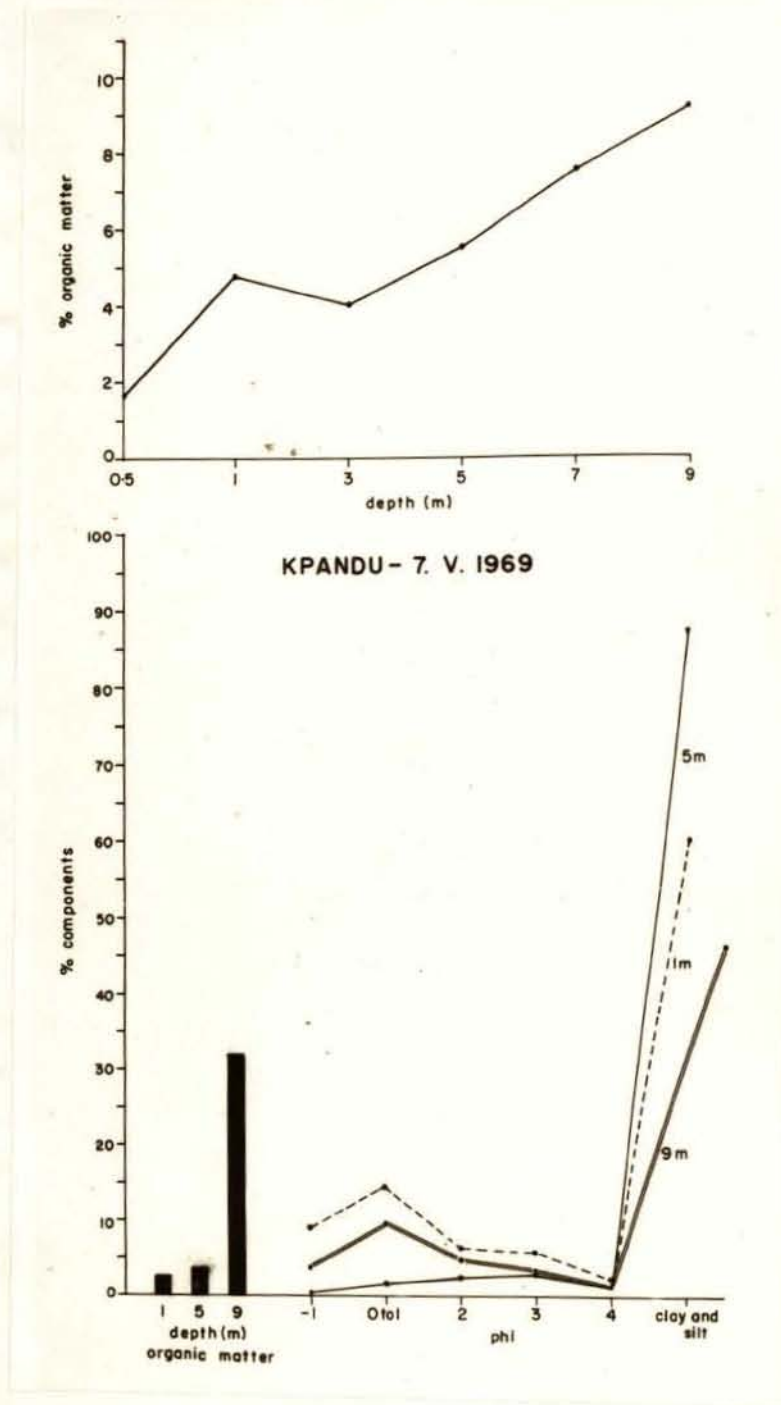
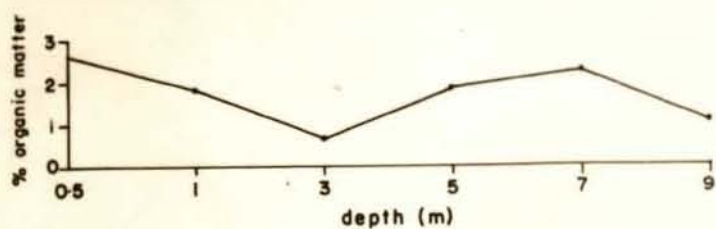


Fig.16. Percentage components and percentage organic matter of flooded soil at Kpandu (for explanation see text).



KETE KRACHI 8. V. 1969

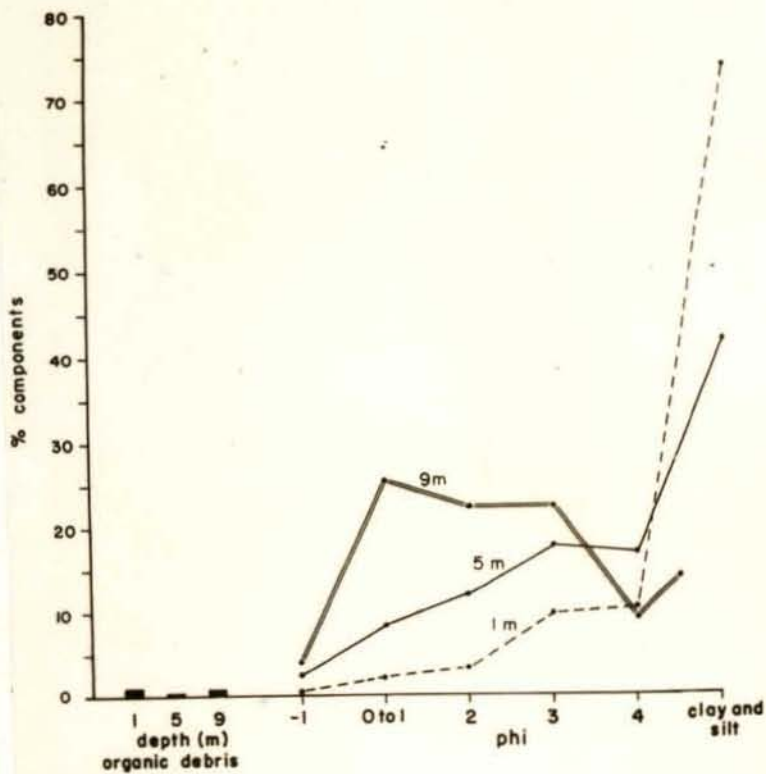


Fig.17. Percentage components and percentage organic matter of flooded soil at Kete Krachi (for explanation see text).

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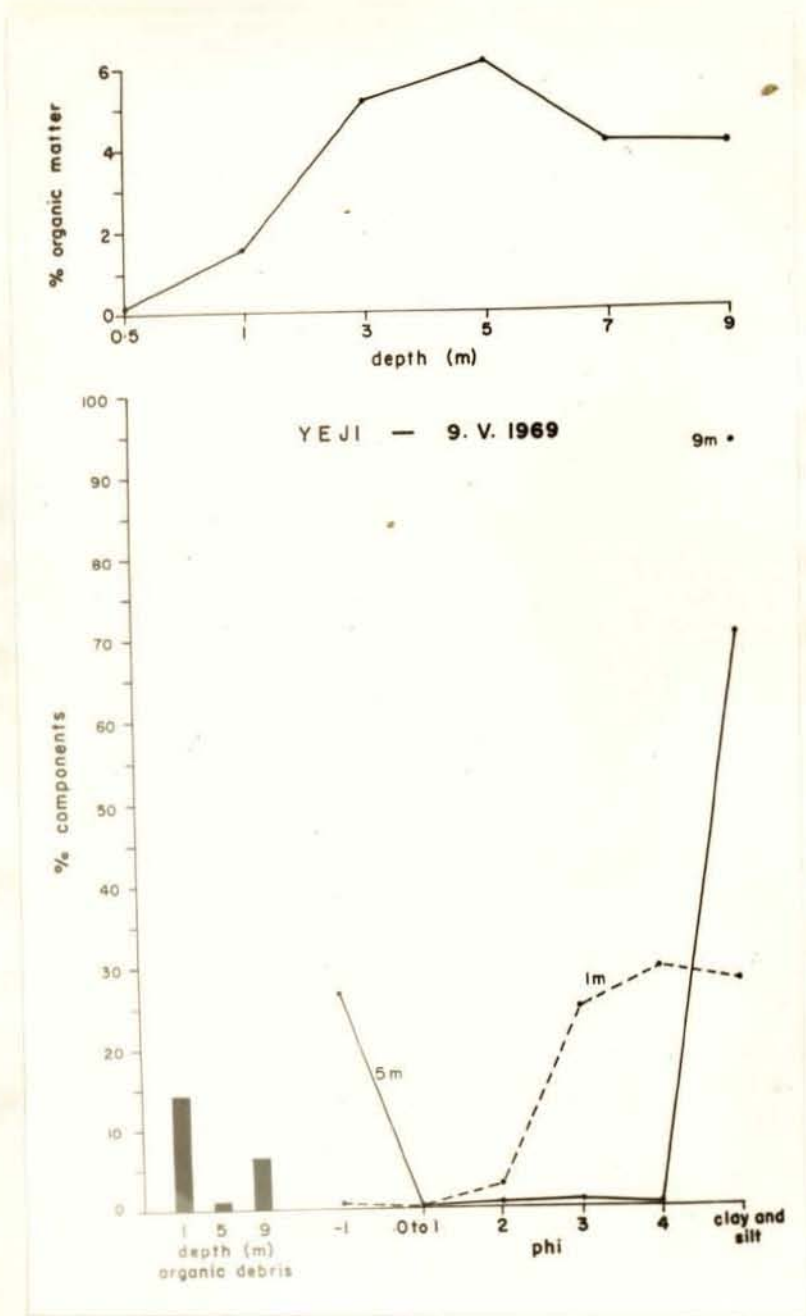


Fig.18. Percentage components and percentage organic matter of flooded soil at Yeji (for explanation see text).

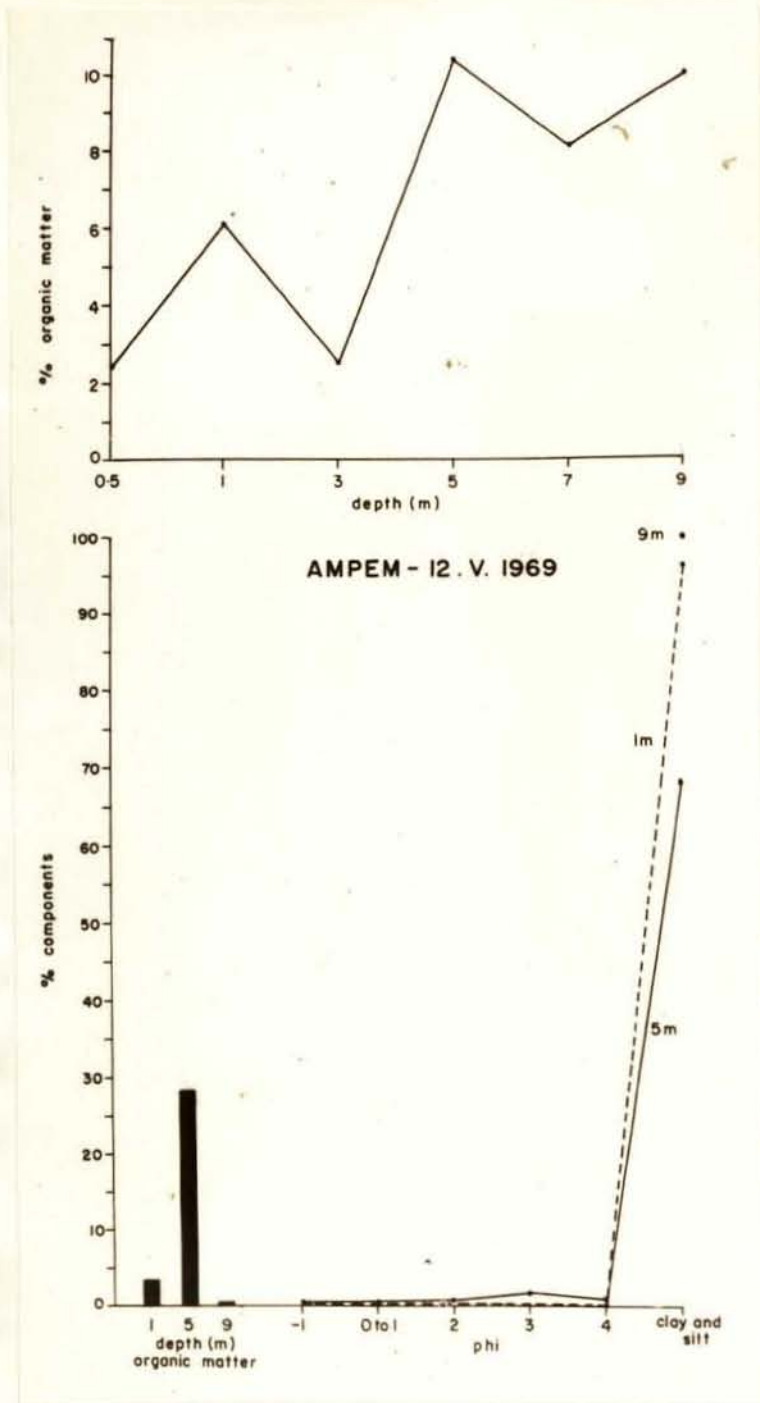


Fig.19. Percentage components and percentage organic matter of flooded soil at Ampem (for explanation see text).

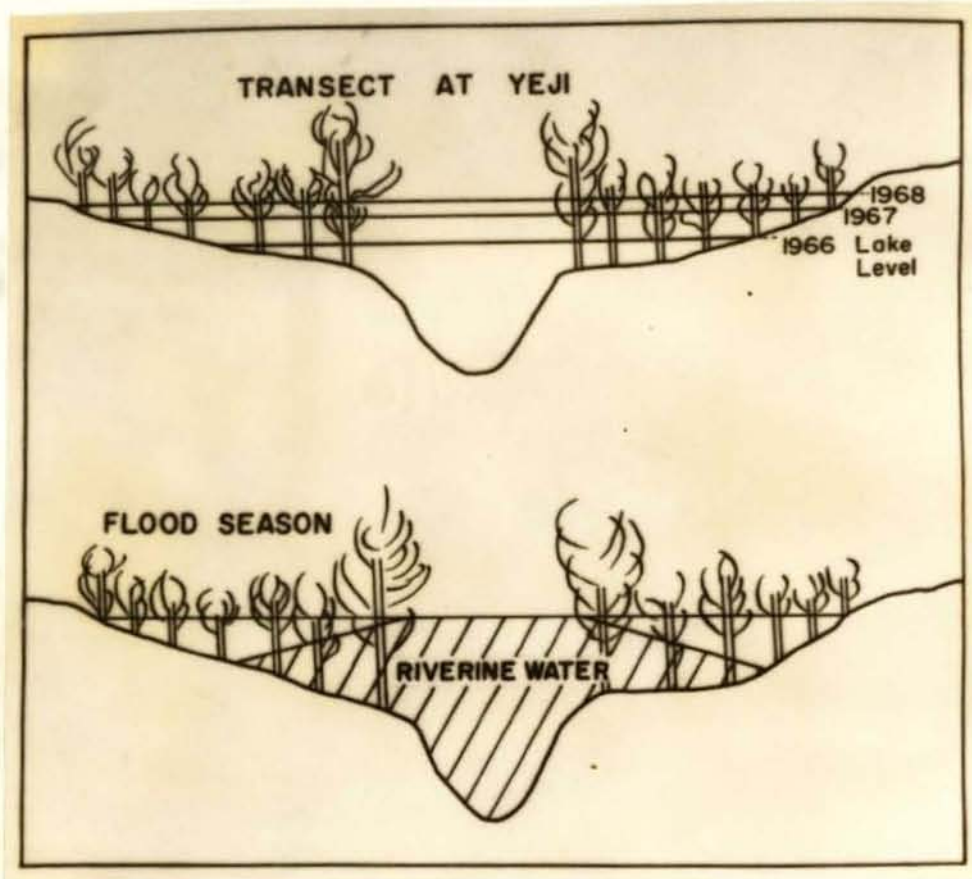


Fig.20. Lake level at Yeji from 1966 to 1968; separation of riverine water from the lake water of shallows at the beginning of floods.

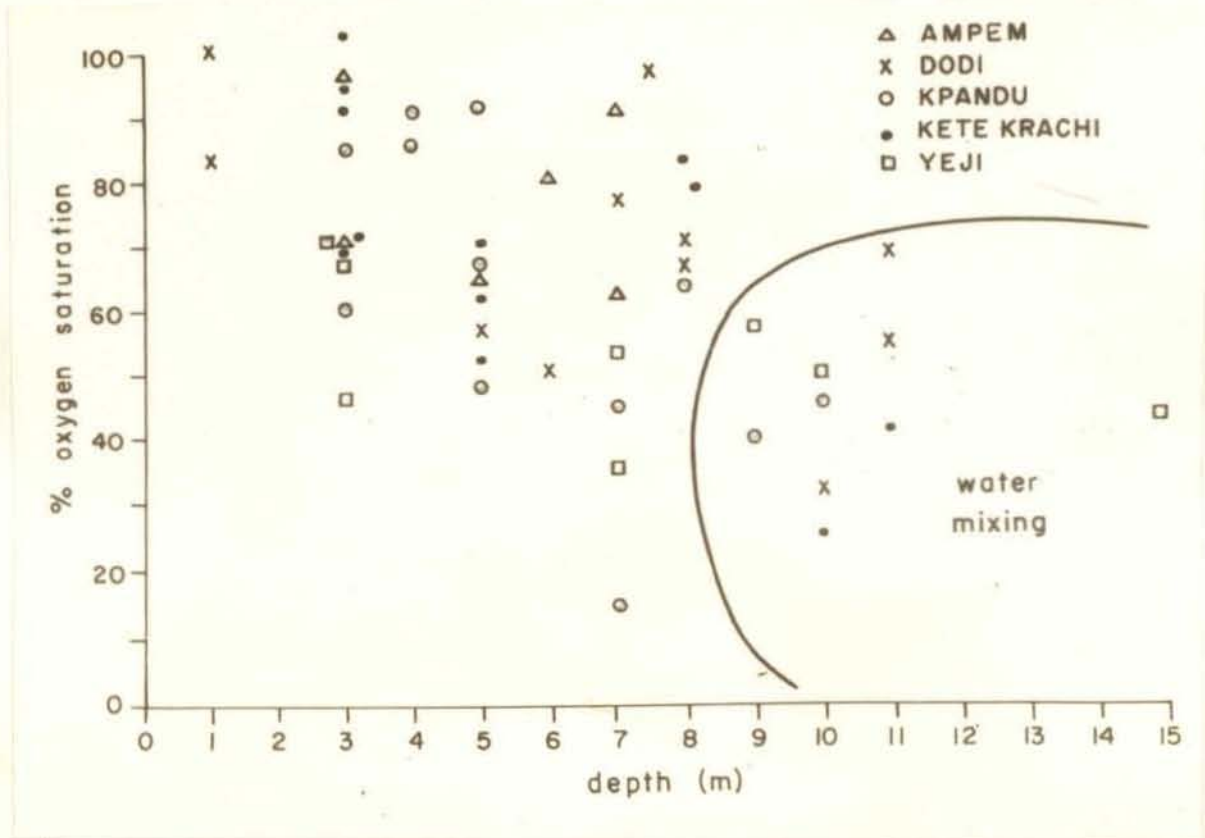


Fig.21. The maximum depth distribution of Povilla adusta nymphs in relation to the percentage oxygen saturation of water during the period 1966 to 1968.



Fig.22. Mouth parts of Cricotopus sp. larva (Chironomidae)



Fig.23. Mouth parts of Chironomus formosipennis larva (Chironomidae)



Fig.24. Mouth parts of Chironomus imicola larva (Chironomidae)



Fig.25. Mouth parts of Dicrotendipes multipinosus larva (Chironomidae)

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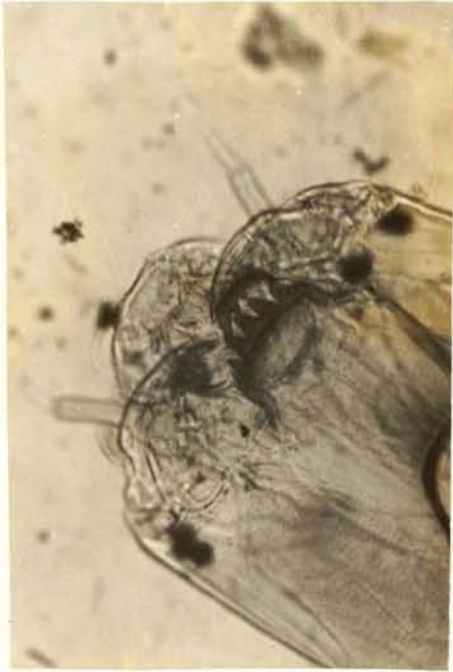


Fig.26. Mouth parts of Dicrotendipes sp.1 larva (Chironomidae)



Fig.27. Mouth parts of Dicrotendipes sp.2 larva (Chironomidae)

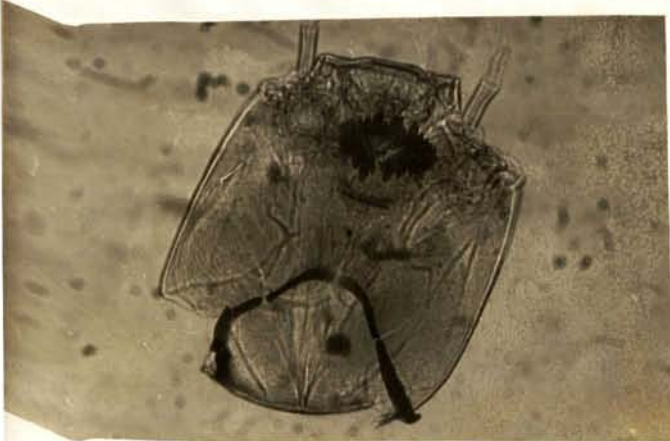


Fig.28. Mouth parts of Polypedilum type 1 larva (Chironomidae)



Fig.29. Mouth parts of Polypedilum sp.1 larva (Chironomidae)

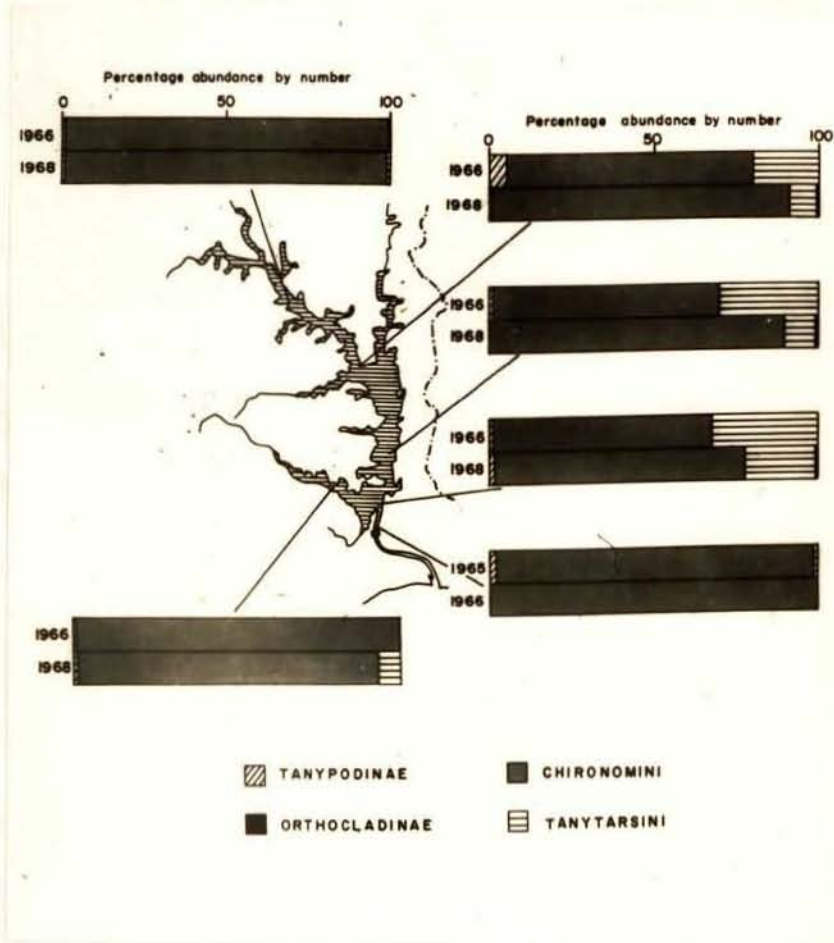


Fig.30. Percentage abundance by number of major taxa of chironomid larvae in 1966 and 1968 (except at Akosombo, where the data are for 1965 and 1966).

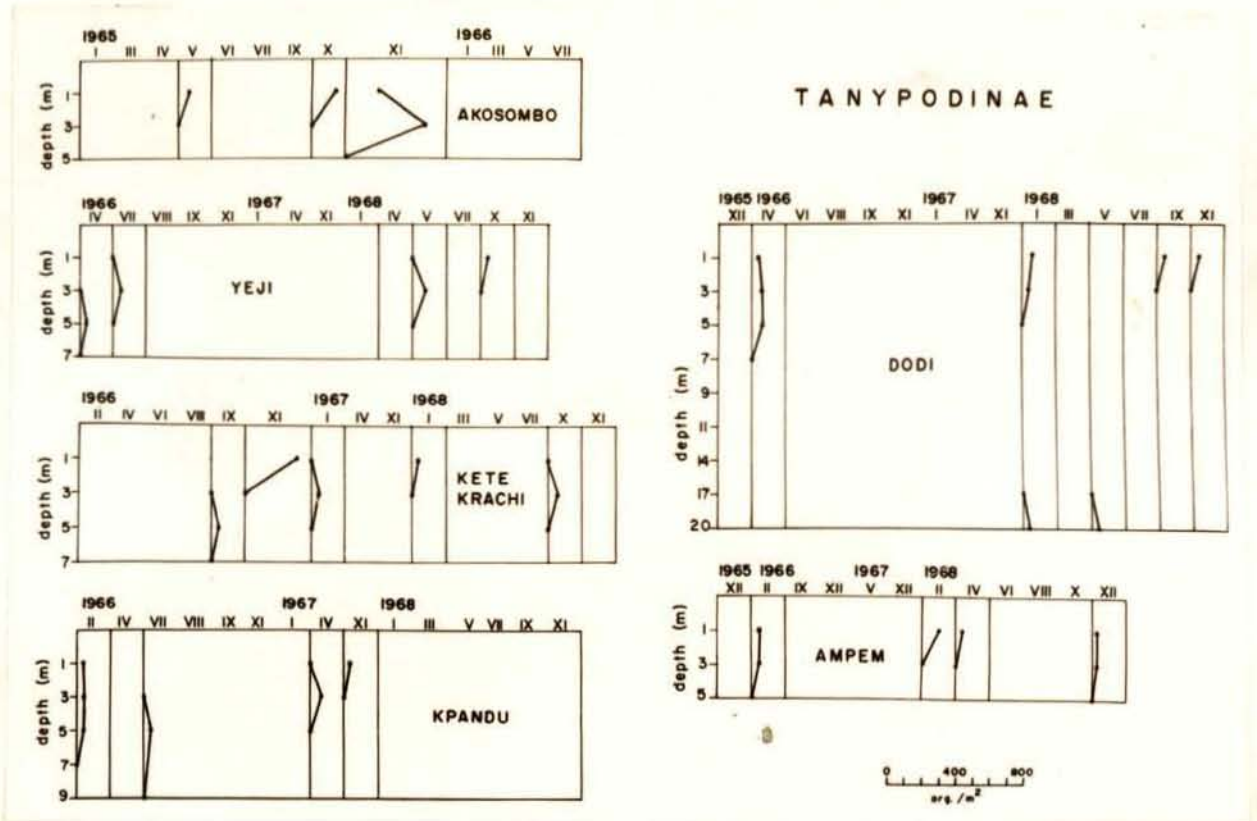


Fig.31. Abundance and depth distribution of Tanypodinae larvae.

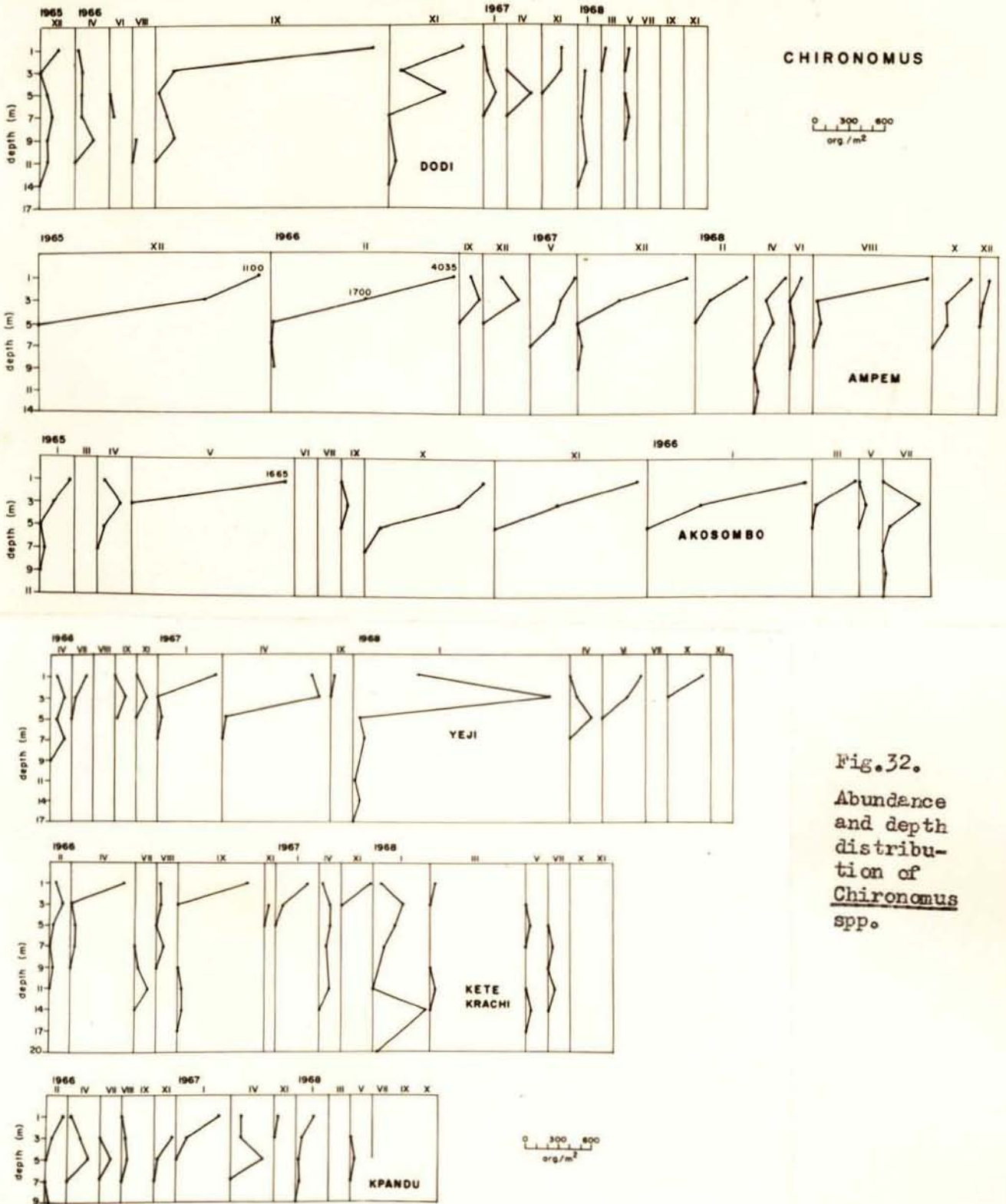


Fig. 32.
Abundance and depth
distribution of
Chironomus
spp.

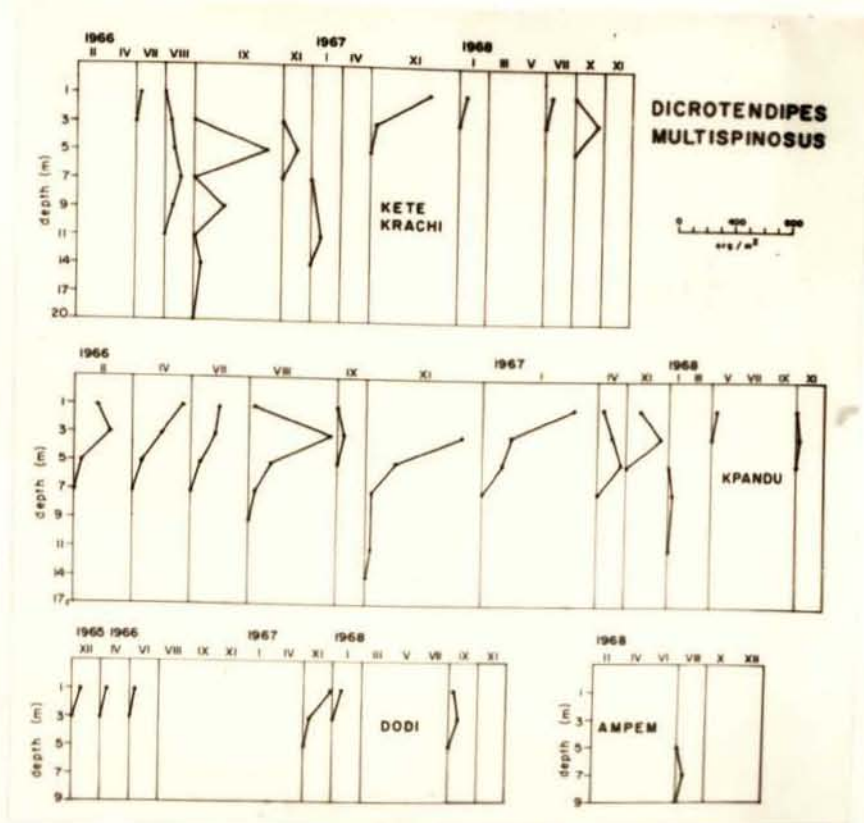


Fig.33. Abundance and depth distribution of Dicrotendipes multispinosus larvae.

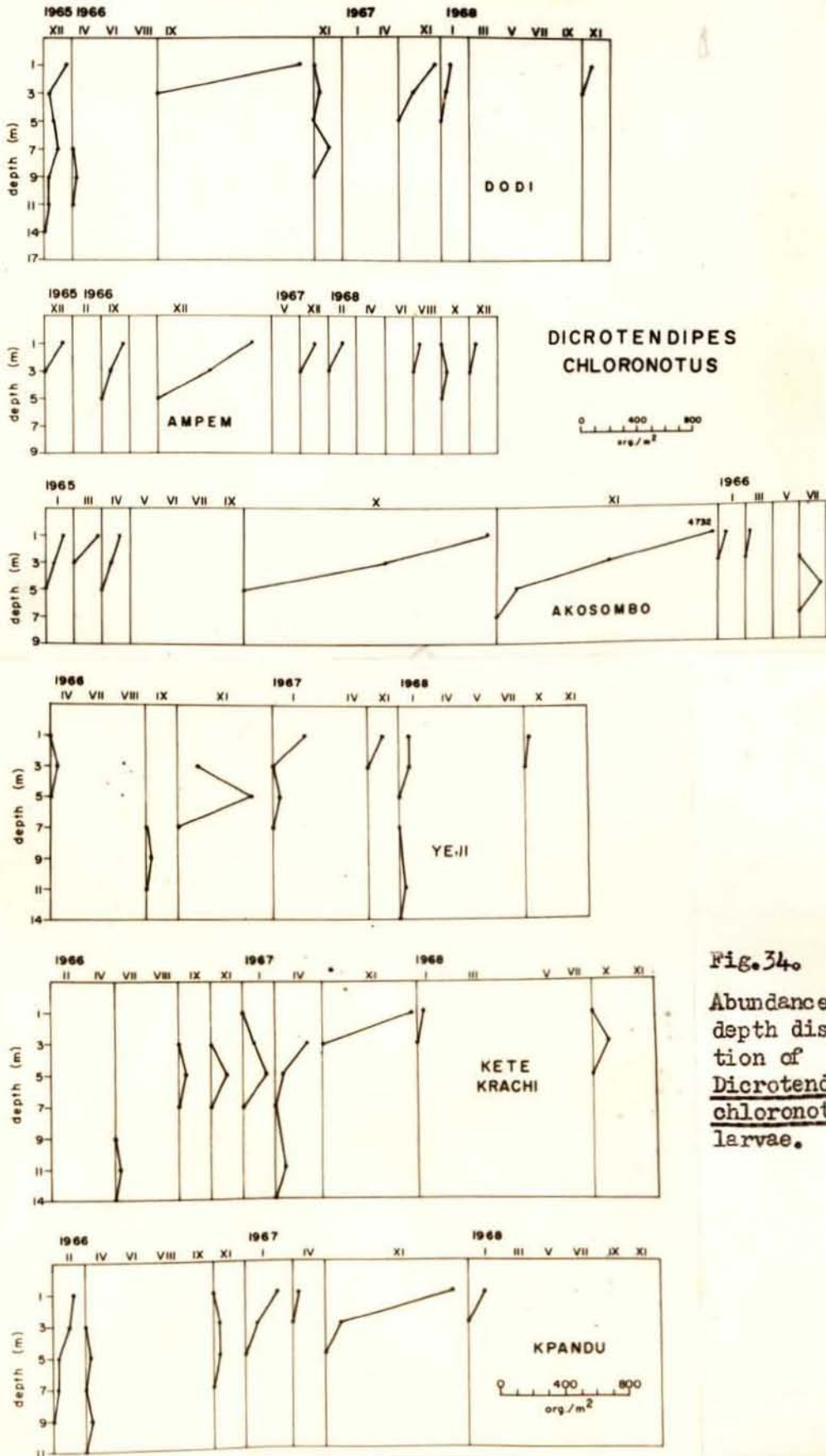


Fig. 34.
Abundance and depth distribution of Dicrotendipes chloronotus larvae.

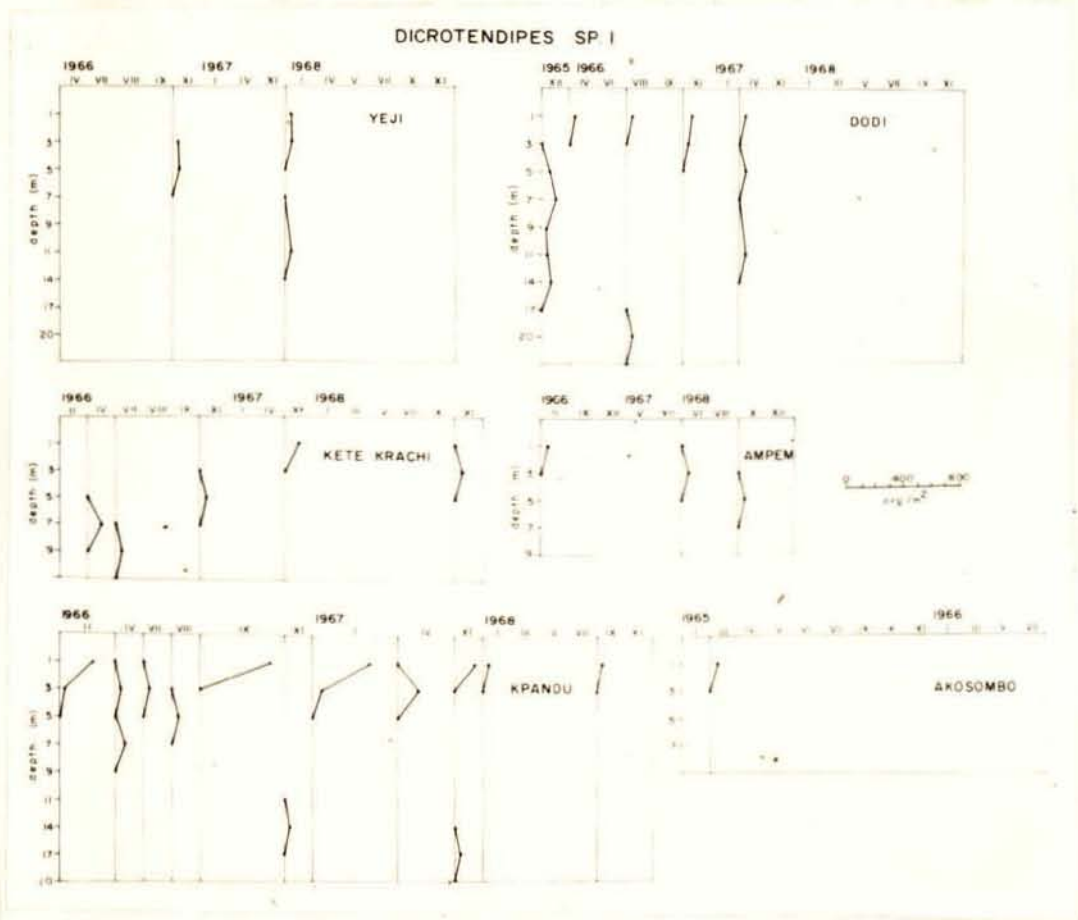


Fig.35. Abundance and depth distribution of Dicotendipes sp.1 larvae.

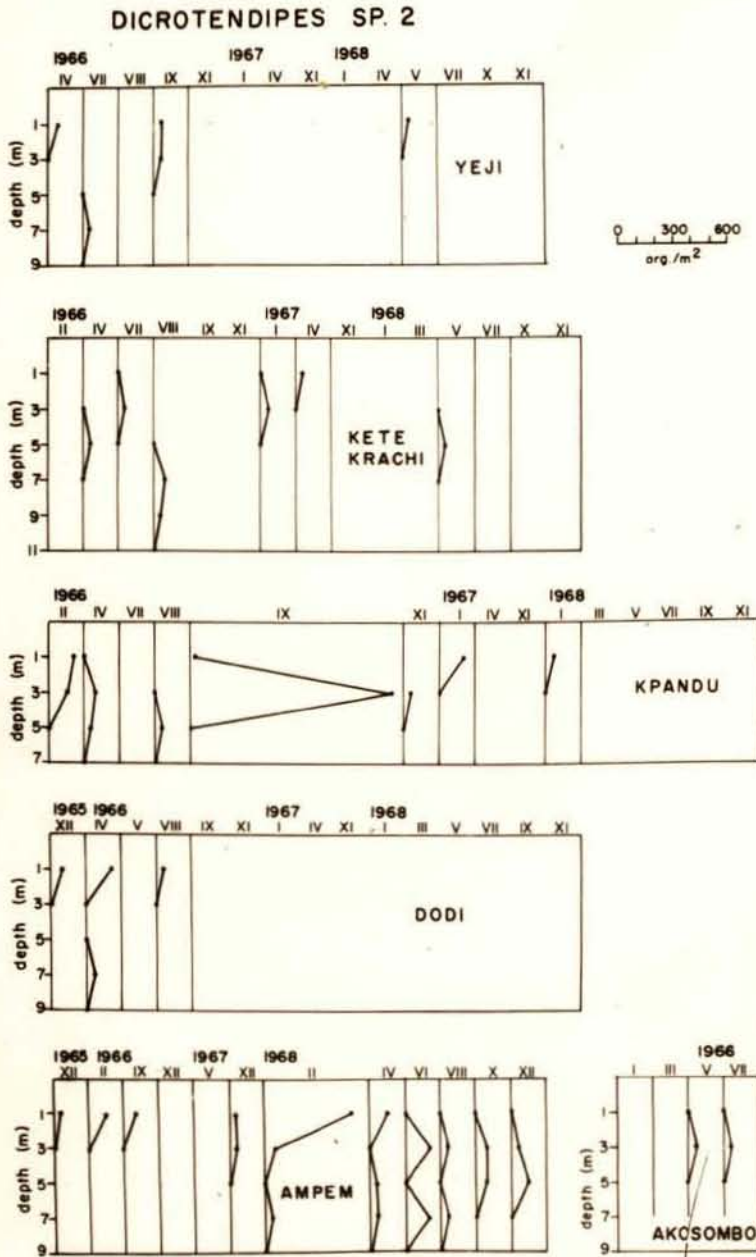


Fig.36. Abundance and depth distribution of Dicrotendipes sp.2 larvae.

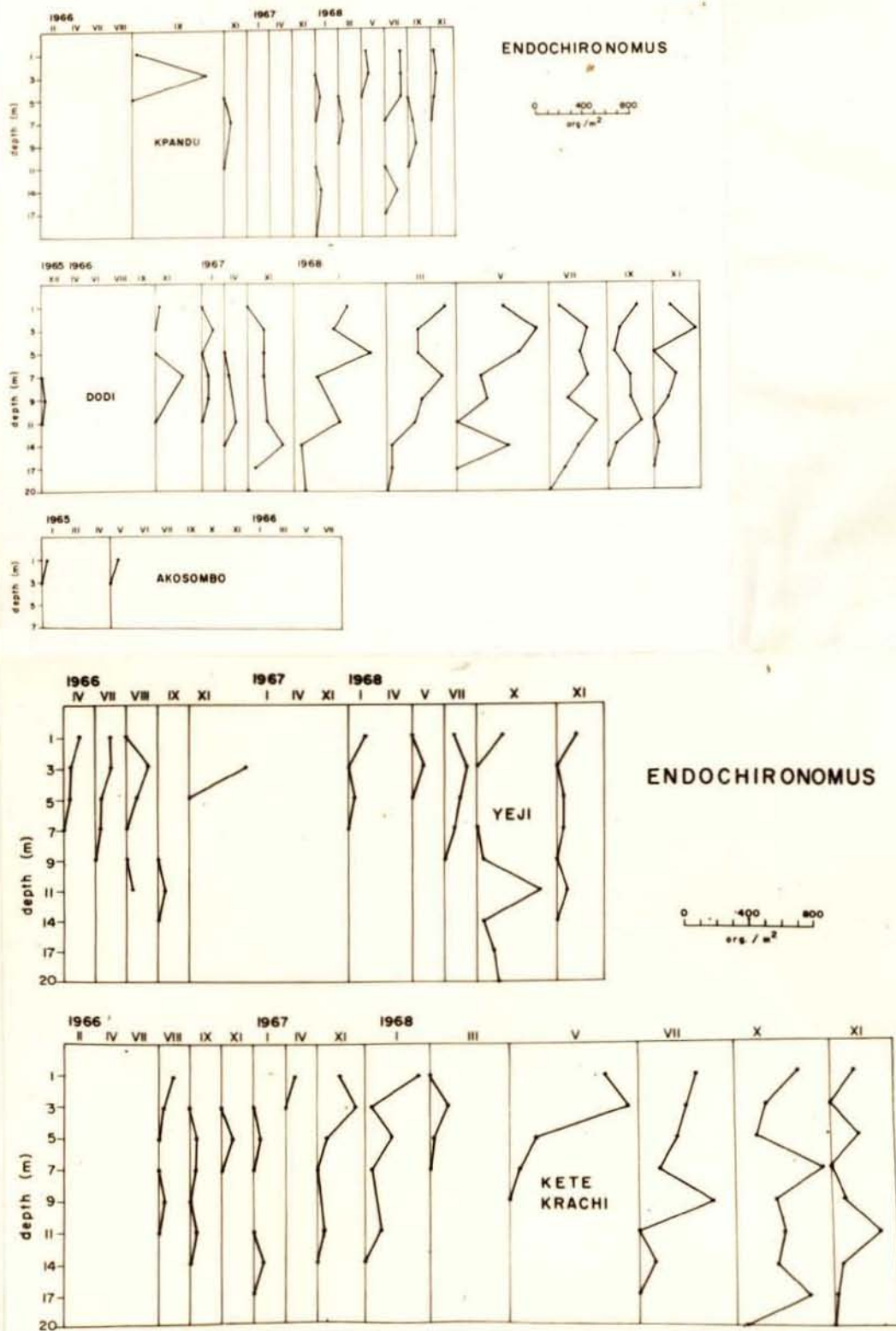


Fig.37. Abundance and depth distribution of Endochironomus larvae.

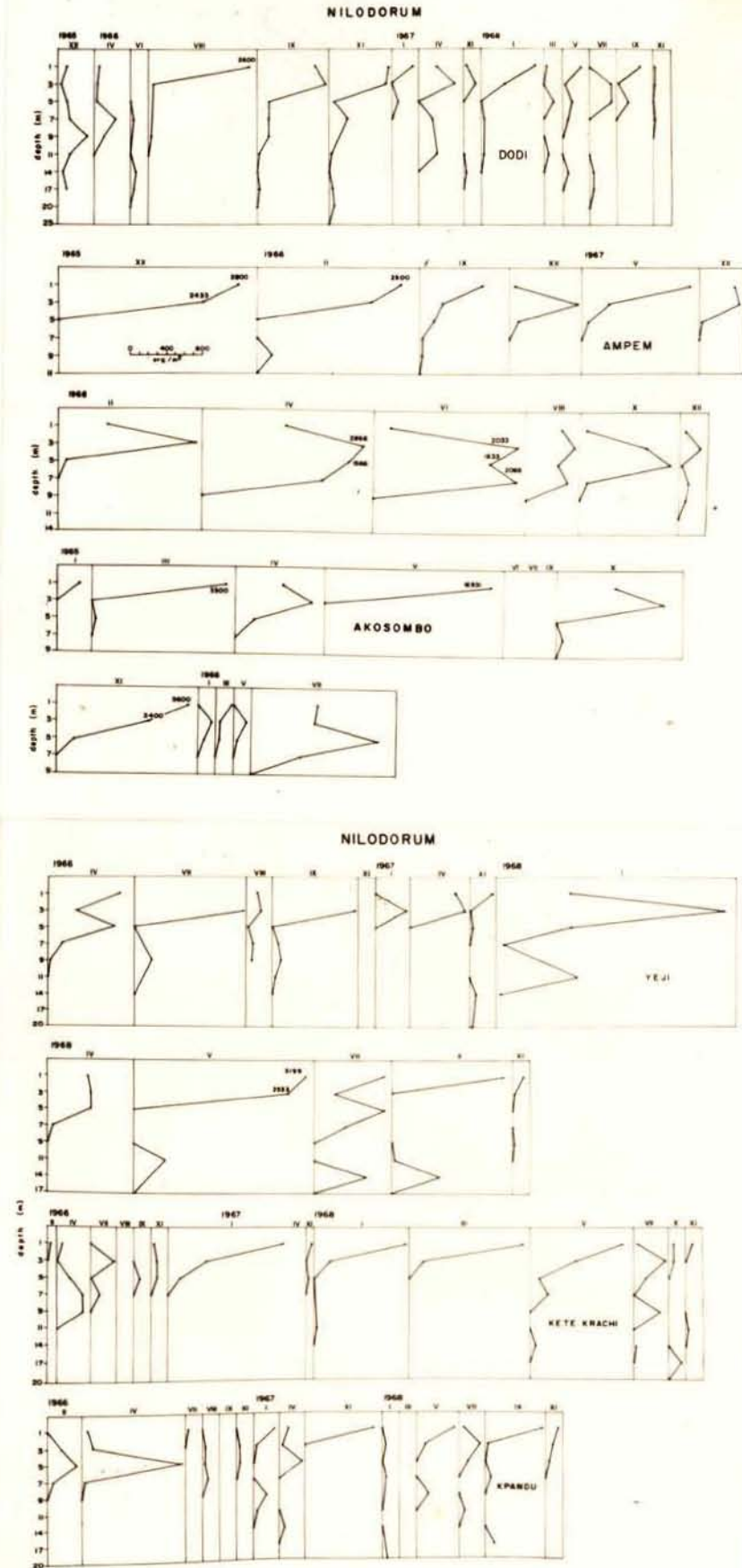


Fig.38.
Abundance and
depth distribu-
tion of
Nilodorum spp.
larvae.

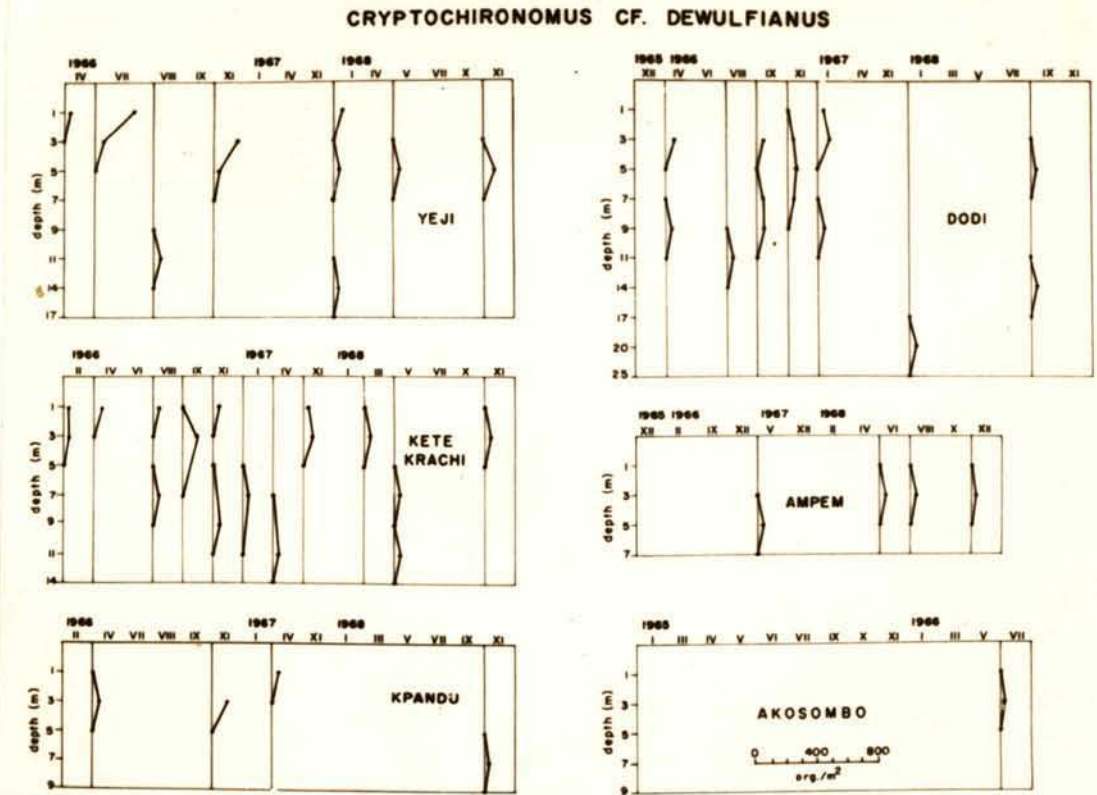


Fig.39. Abundance and depth distribution of Cryptochironomus cf. dewulfianus larvae.

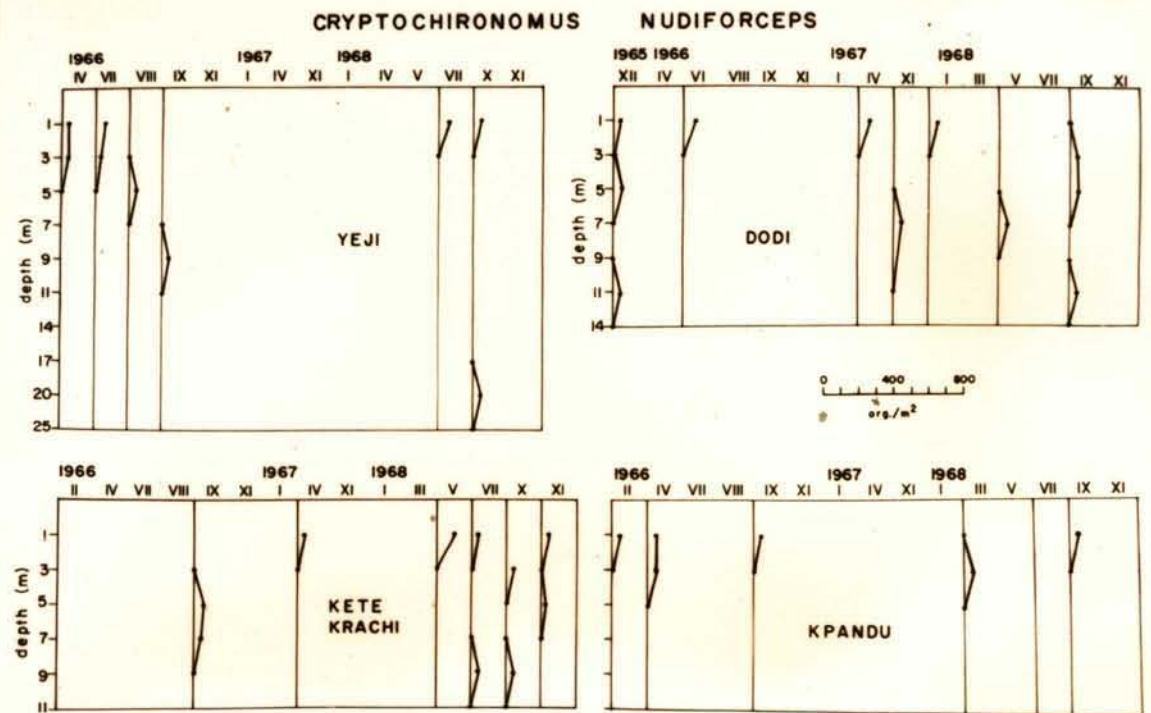


Fig.40. Abundance and depth distribution of Cryptochironomus nudiforceps larvae.

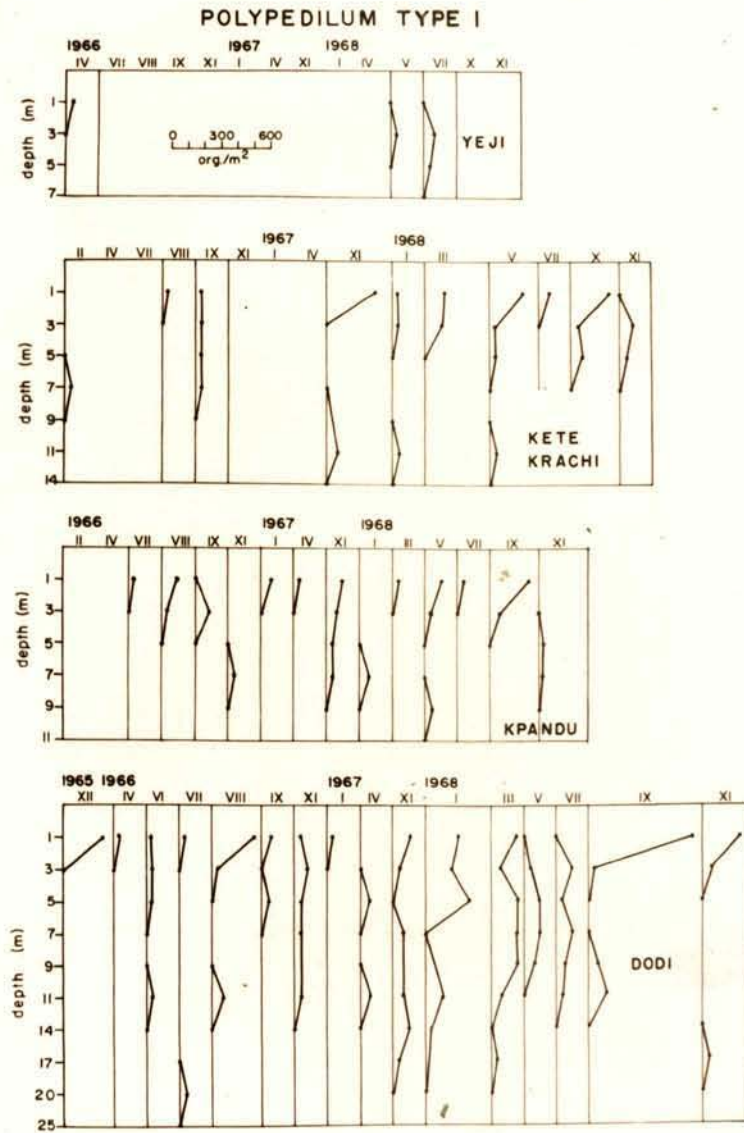


Fig.41. Abundance and depth distribution of Polypedilum type I larvae.

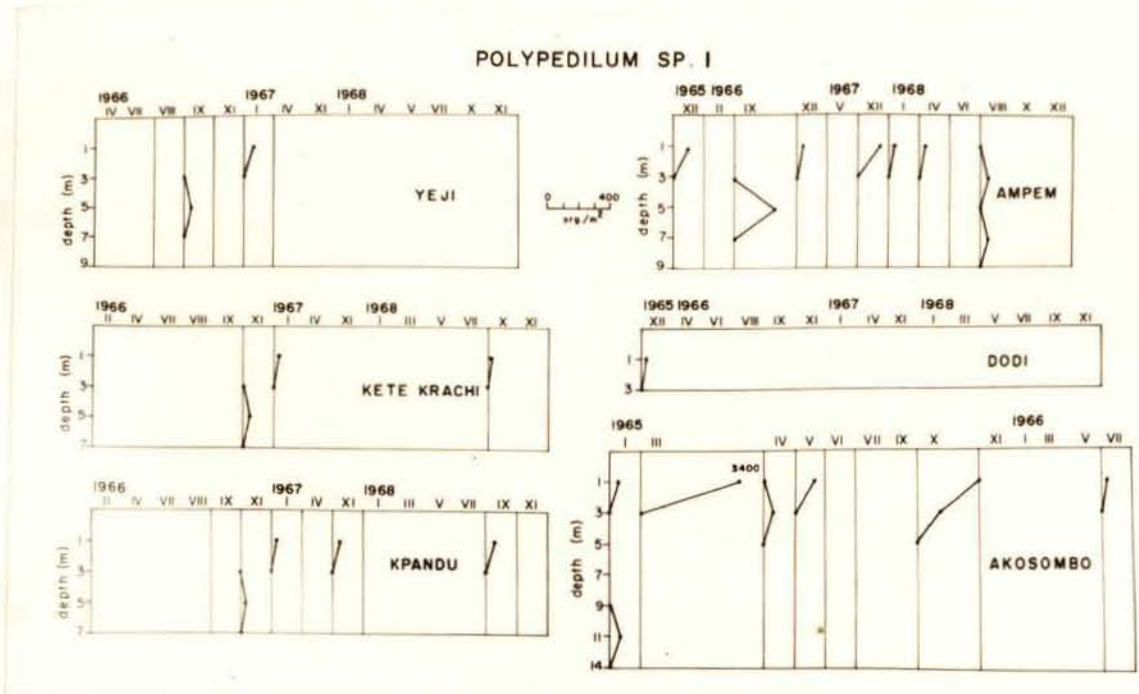


Fig.42. Abundance and depth distribution of Polypedilum sp.1 larvae.

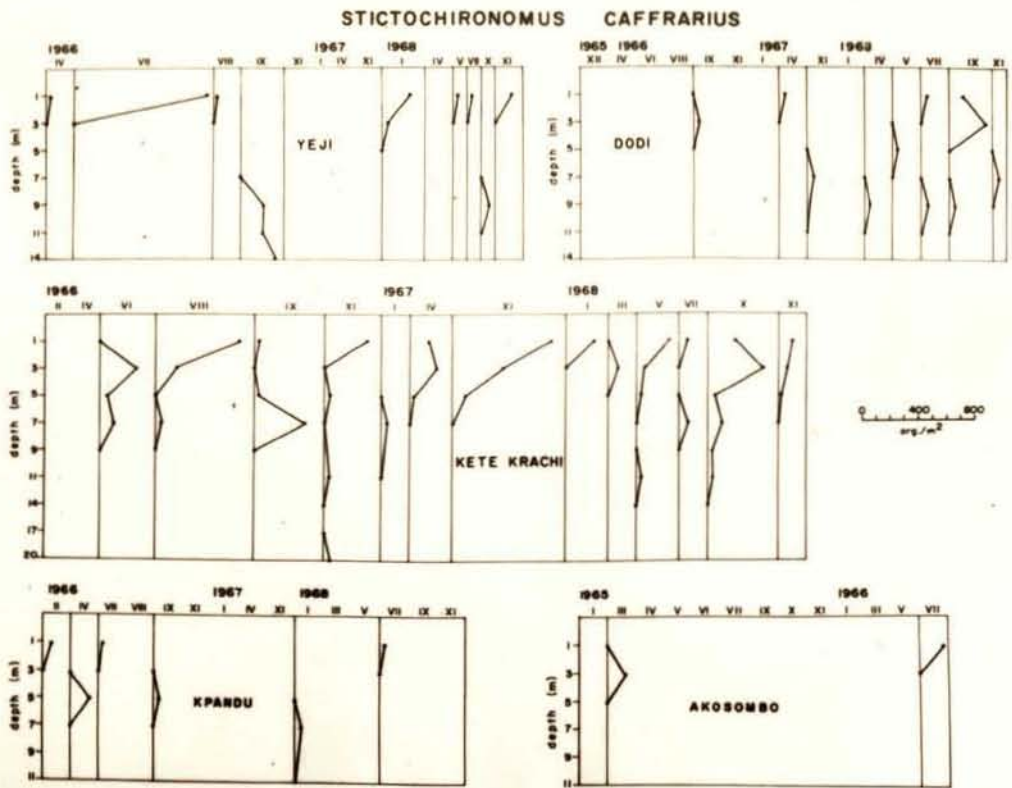


Fig.43. Abundance and depth distribution of *Stictochironomus cafferarius* larvae.

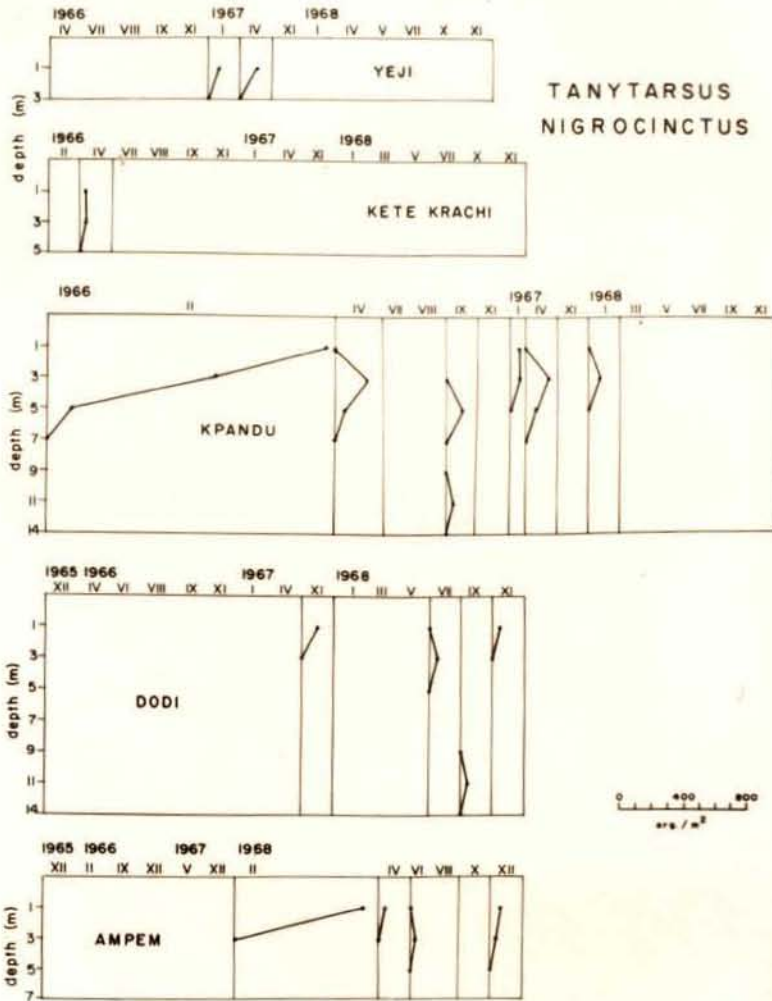


Fig.44. Abundance and depth distribution of Tanytarsus nigrocinctus larvae.

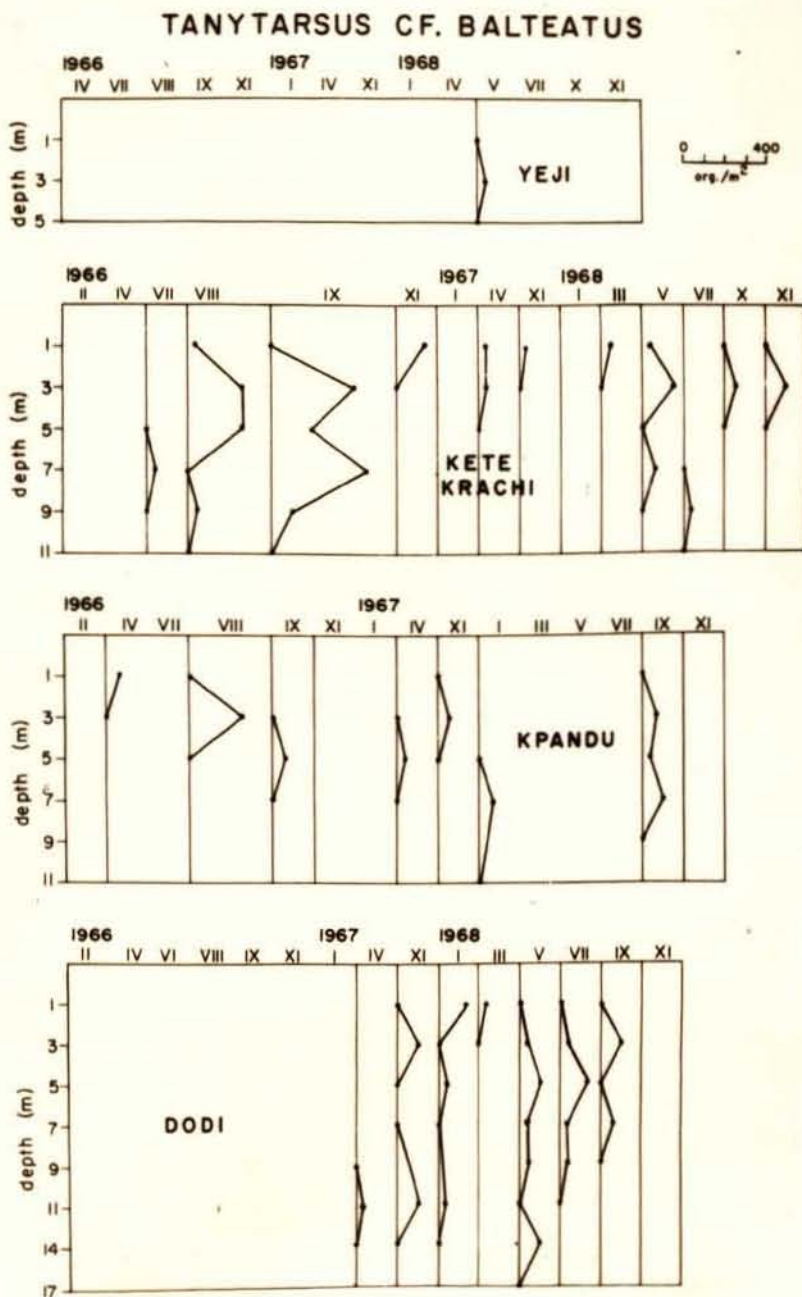


Fig.45. Abundance and depth distribution of Tanytarsus cf. balteatus larvae.

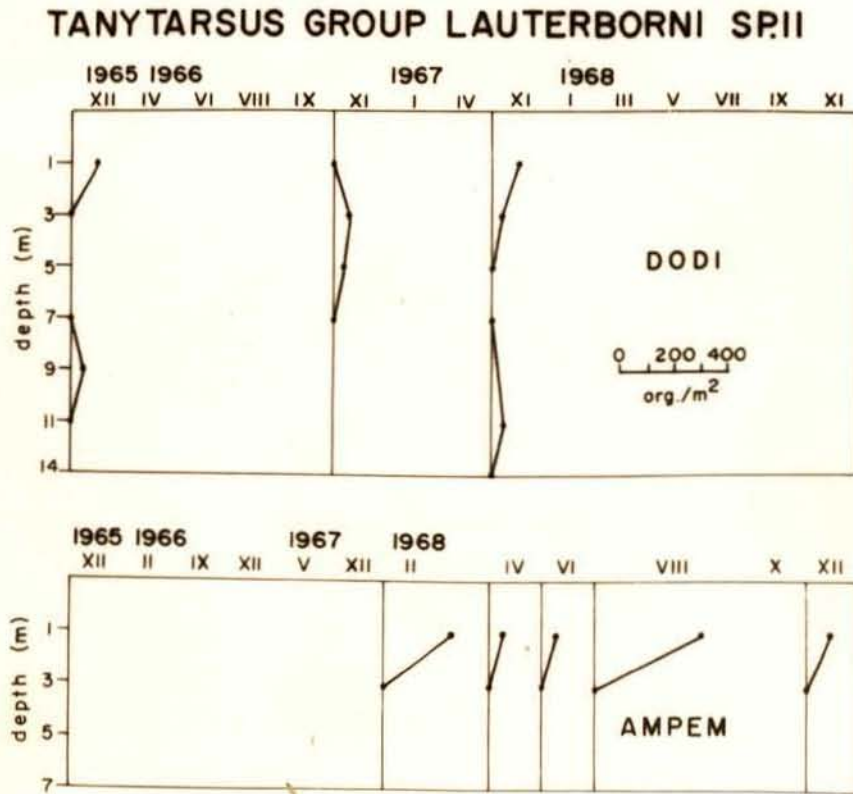


Fig.46. Abundance and depth distribution of Tanytarsus group lauterborni sp.II larvae.

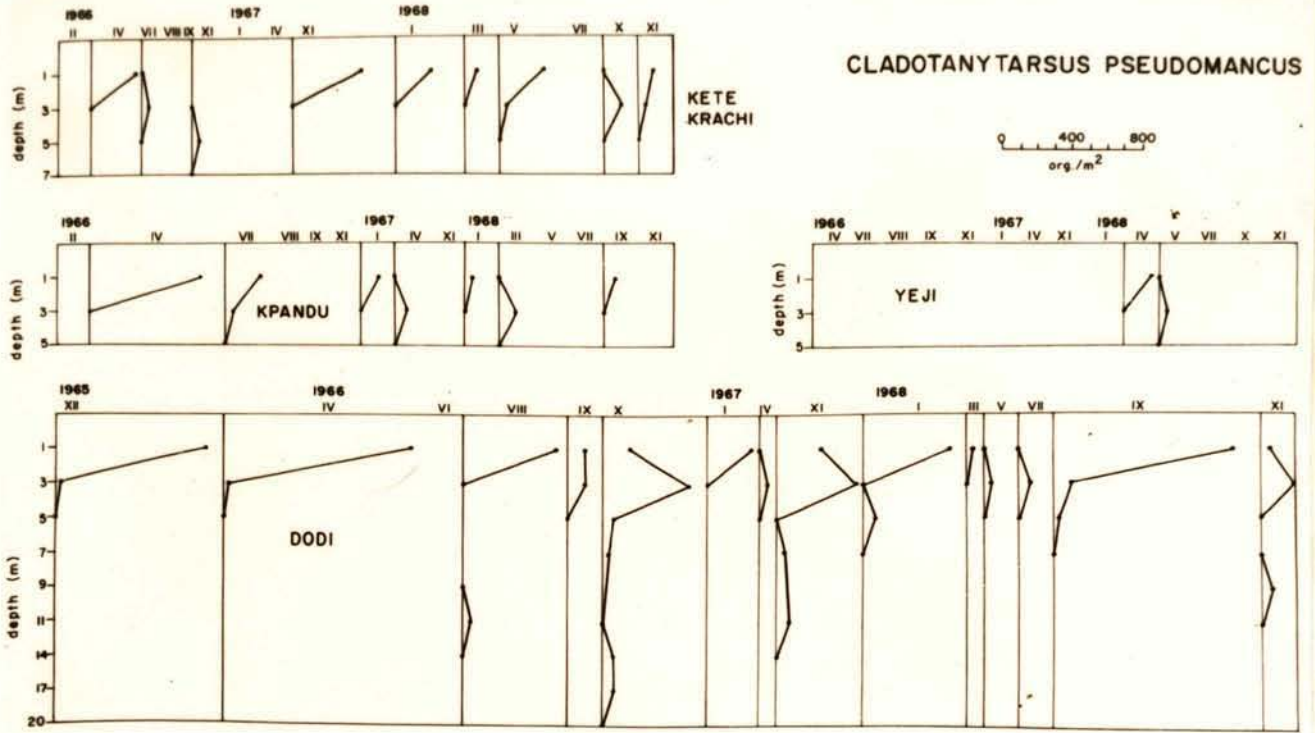


Fig.47. Abundance and depth distribution of Cladotanytarsus pseudomancus larvae.

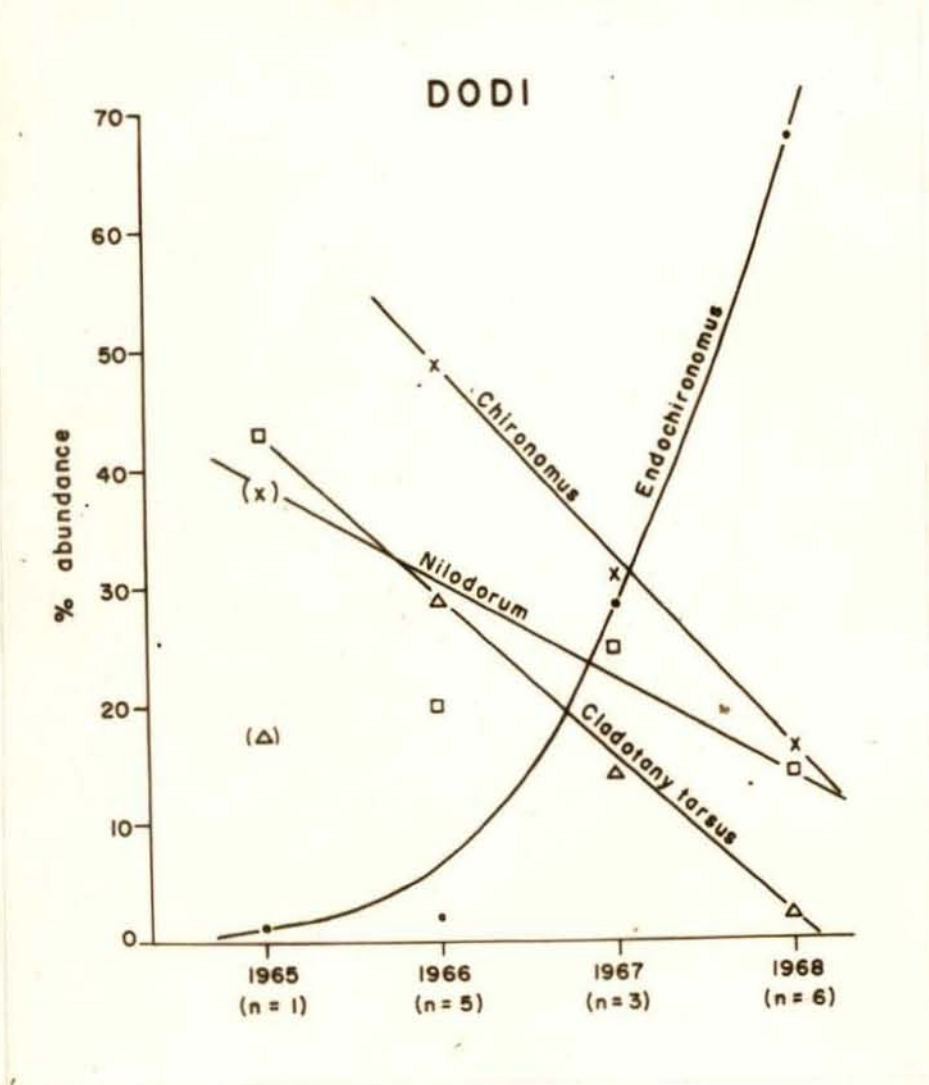


Fig.48. Changes in relative abundance of four species of chironomid larvae at Dodi in 1965 to 1968, expressed as percentage of the total number of specimens collected in each year. n = number of collections.

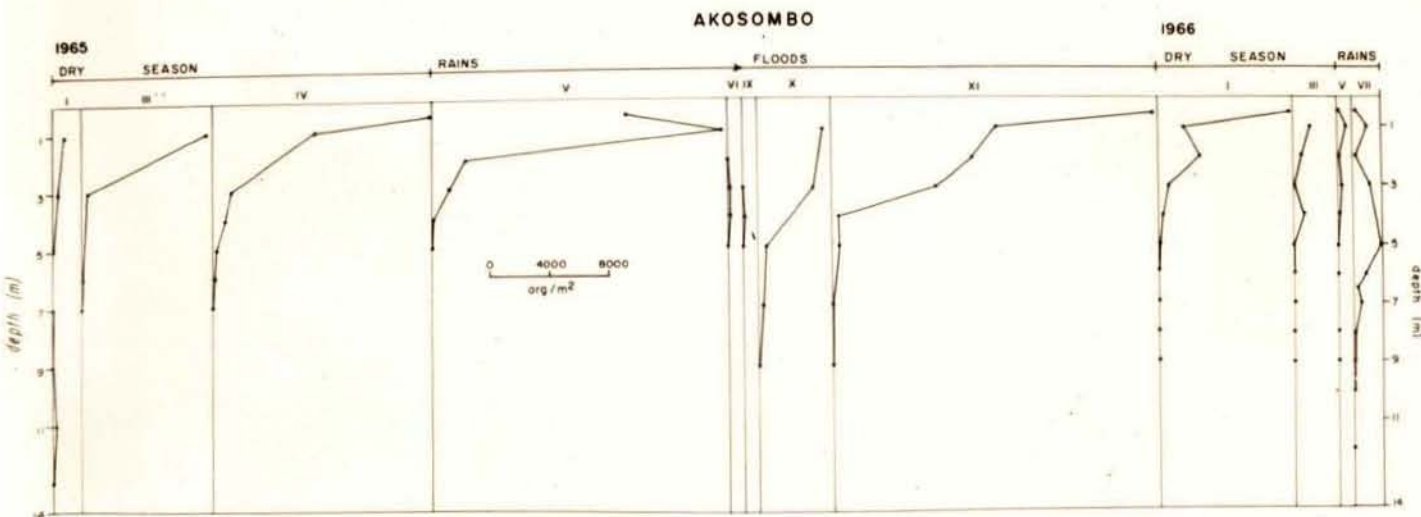


Fig.49. Depth distribution of total bottom fauna at Akosombo expressed as number of organisms per m^2 .

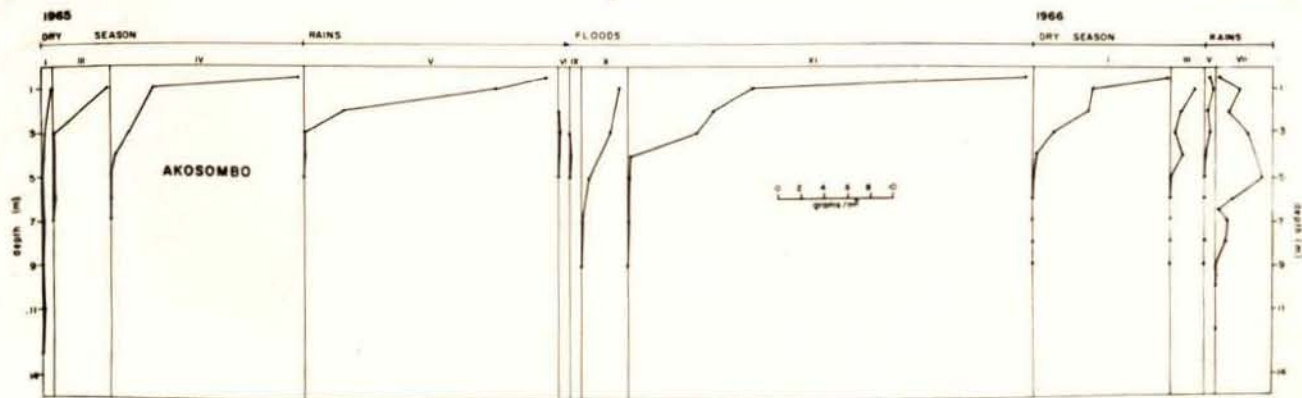


Fig.50. Depth distribution of total bottom fauna at Akosombo expressed as standing crop in g/m^2 .

DODI

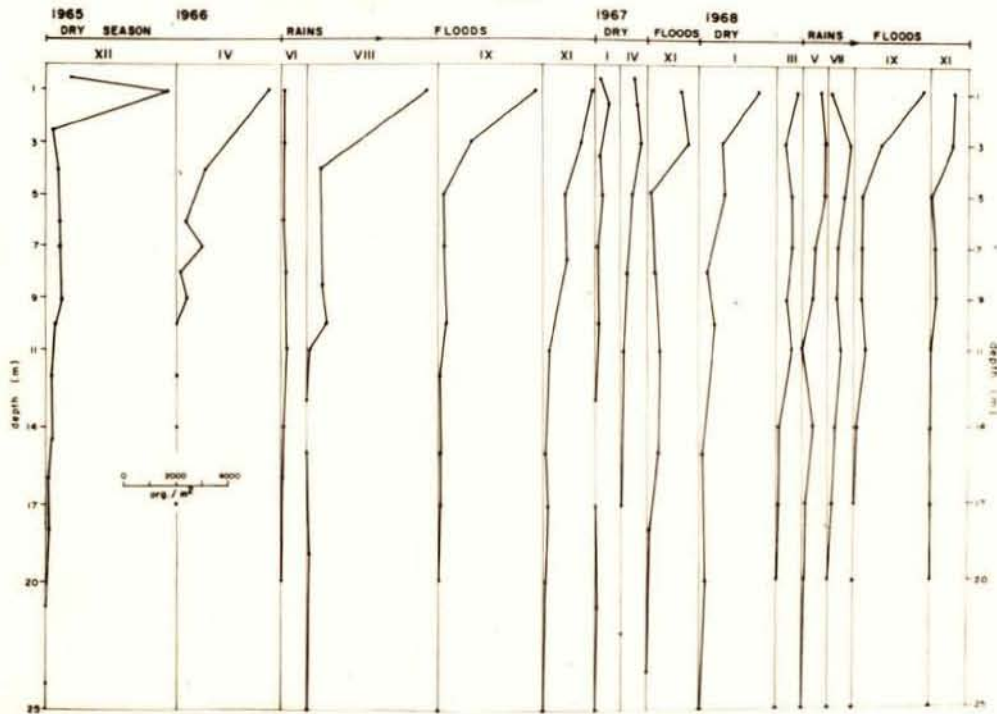


Fig.51. Depth distribution of total bottom fauna at Dodi expressed as a number of organisms per m².

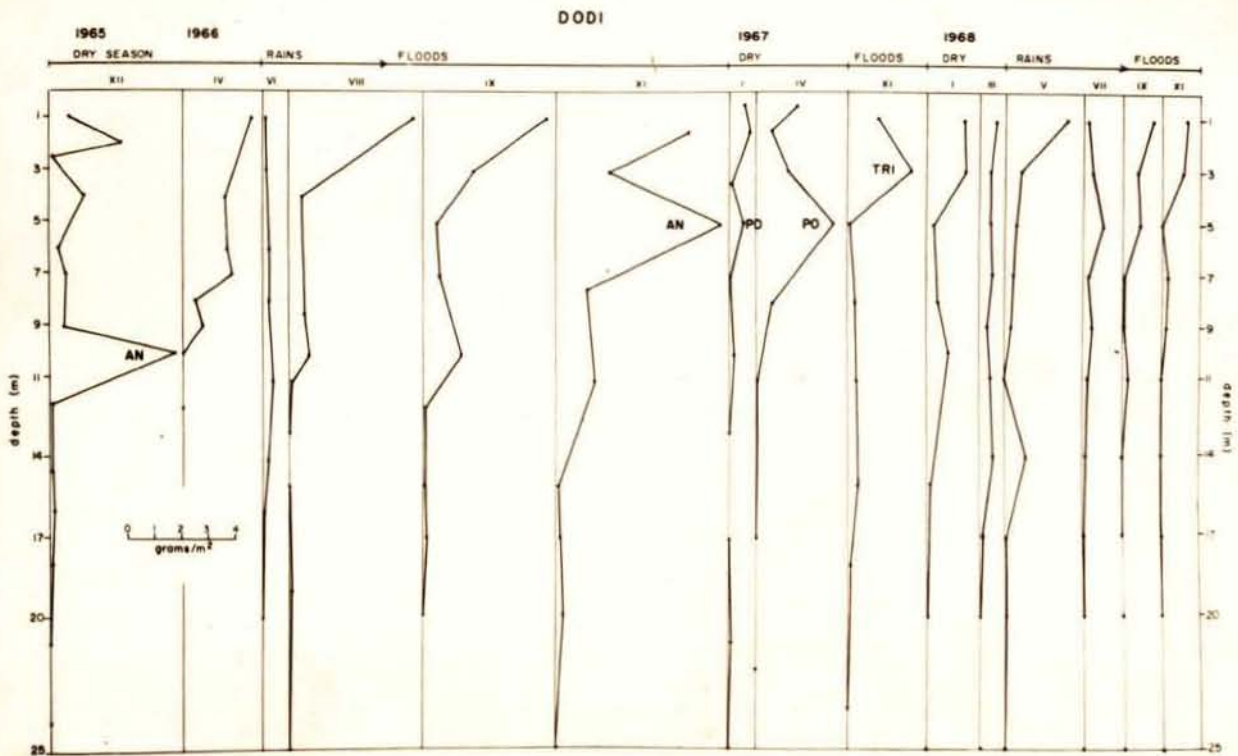


Fig.52. Depth distribution of total bottom fauna at Dodi expressed as standing crop in g/m².
PO = Povilla; AN = Anisoptera; TRI = Trichoptera.

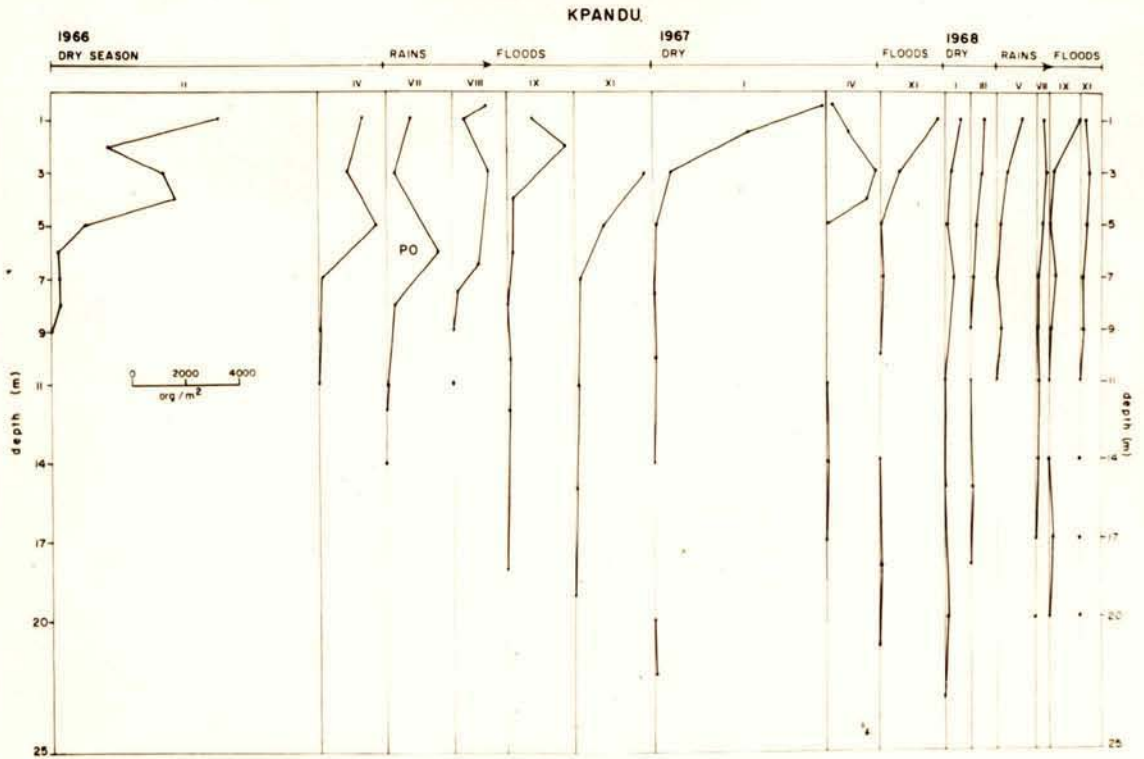


Fig.53. Depth distribution of total bottom fauna at Kpandu expressed as number of organisms per m².

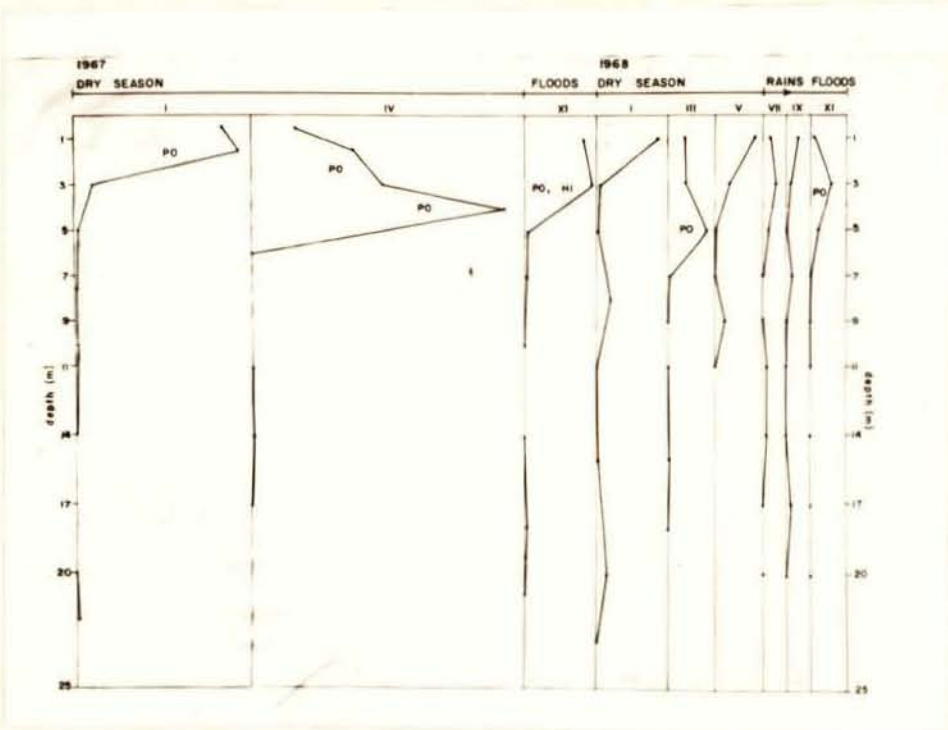
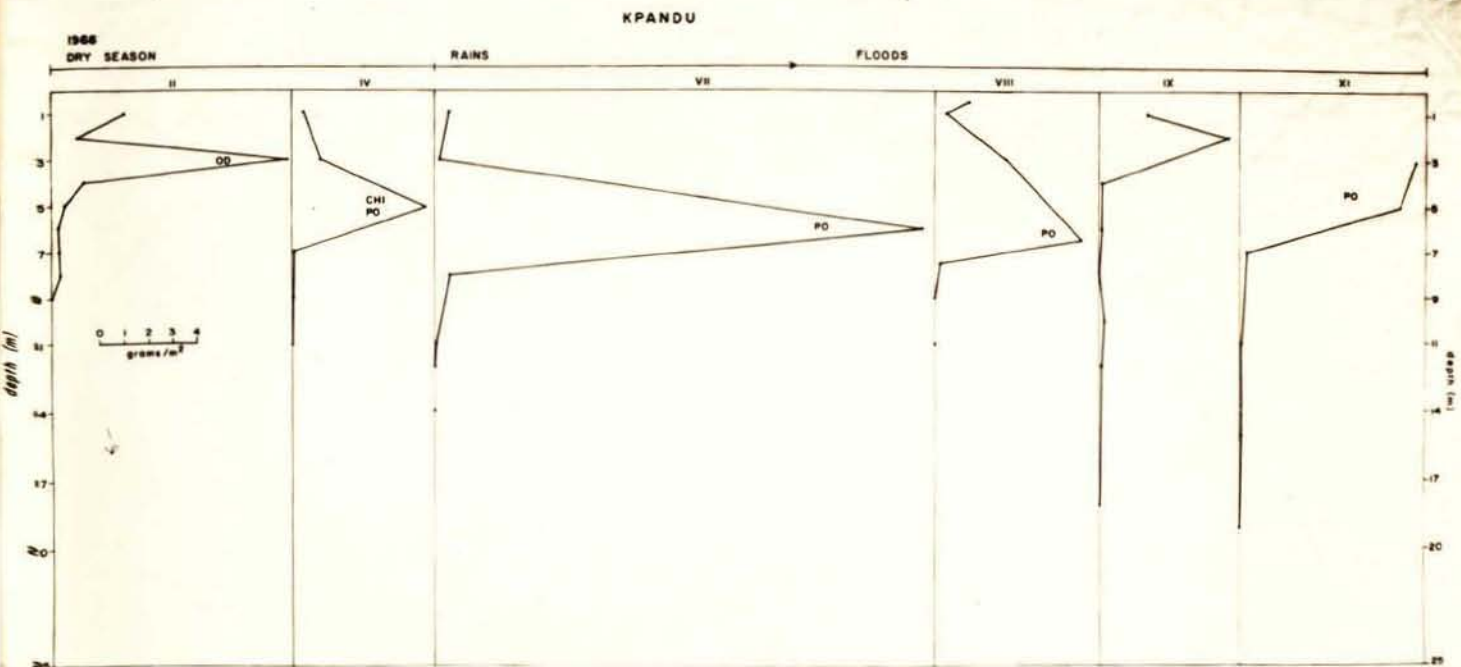


Fig. 54. Depth distribution of total bottom fauna at Kpandu expressed as standing crop in g/m^2 .
 PO = Povilla; HI = Hirudinea; CHI = Chironomidae.

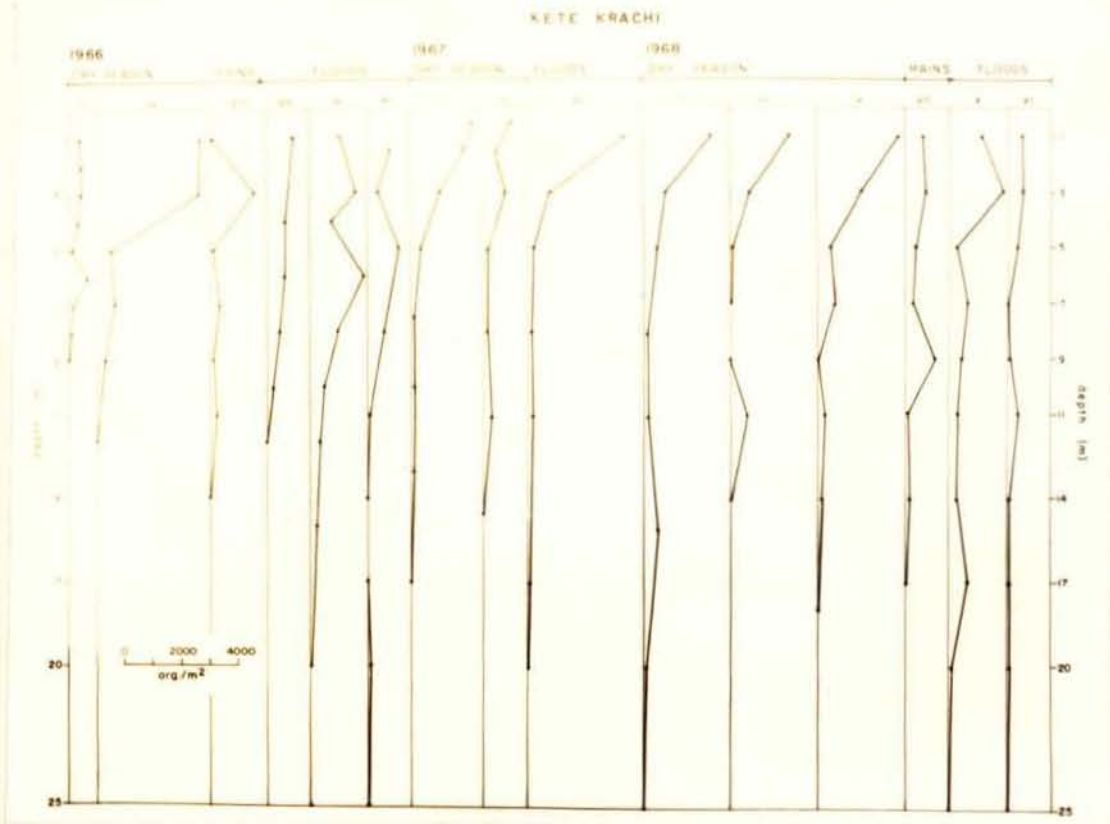


Fig.55. Depth distribution of total bottom fauna at Kete Krachi expressed as number of organisms per m^2 .

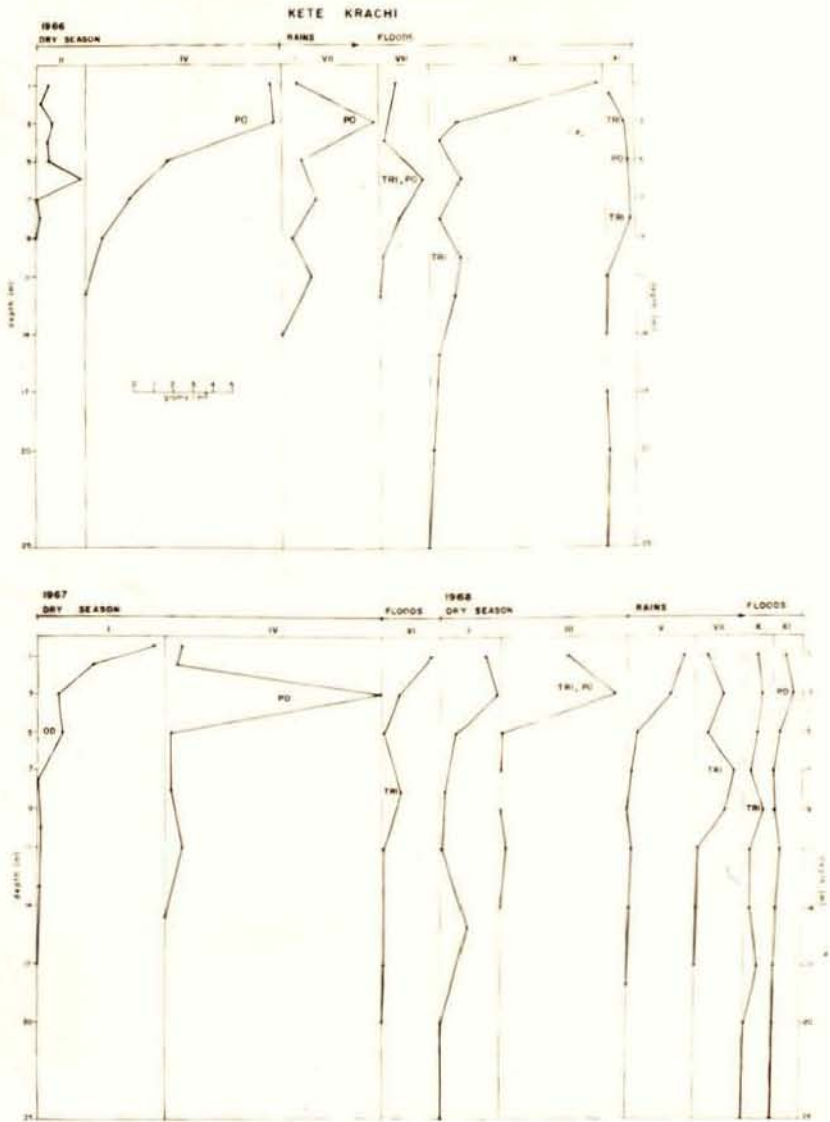


Fig.56. Depth distribution of total bottom fauna at Kete Krachi expressed as standing crop in g/m^2 .

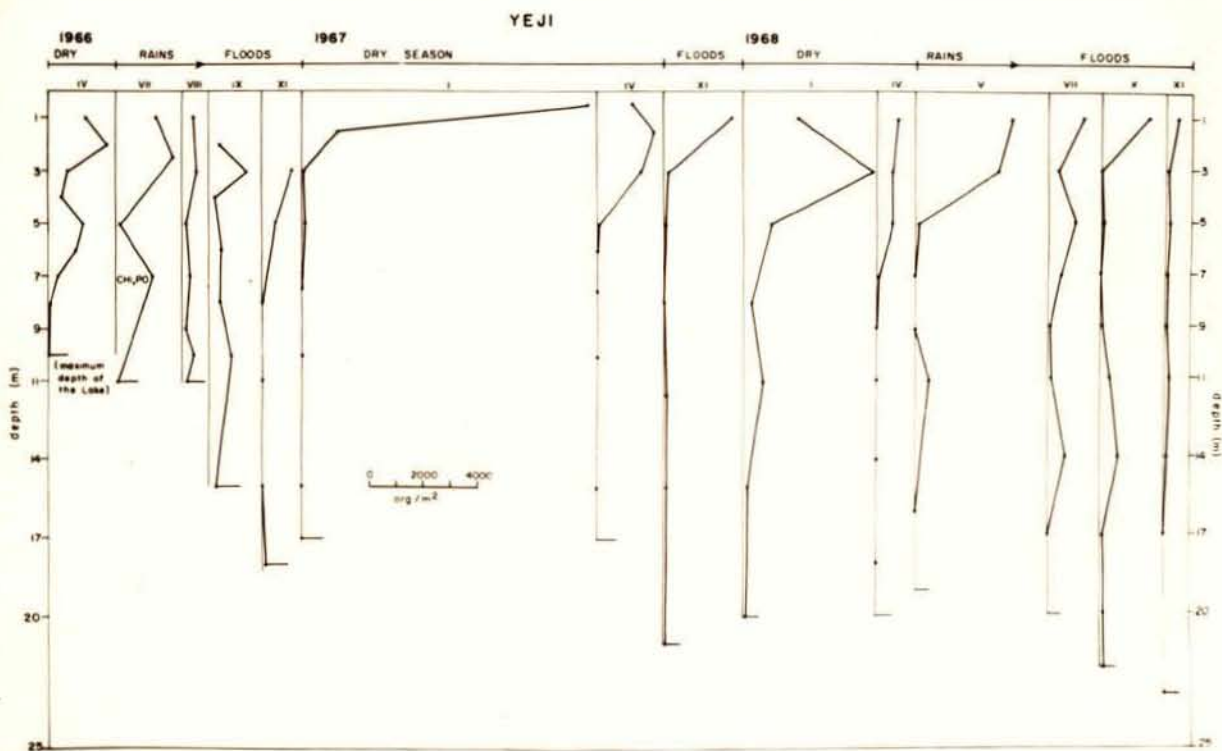


Fig.57. Depth distribution of total bottom fauna at Yeji expressed as number of organisms per m^2 .

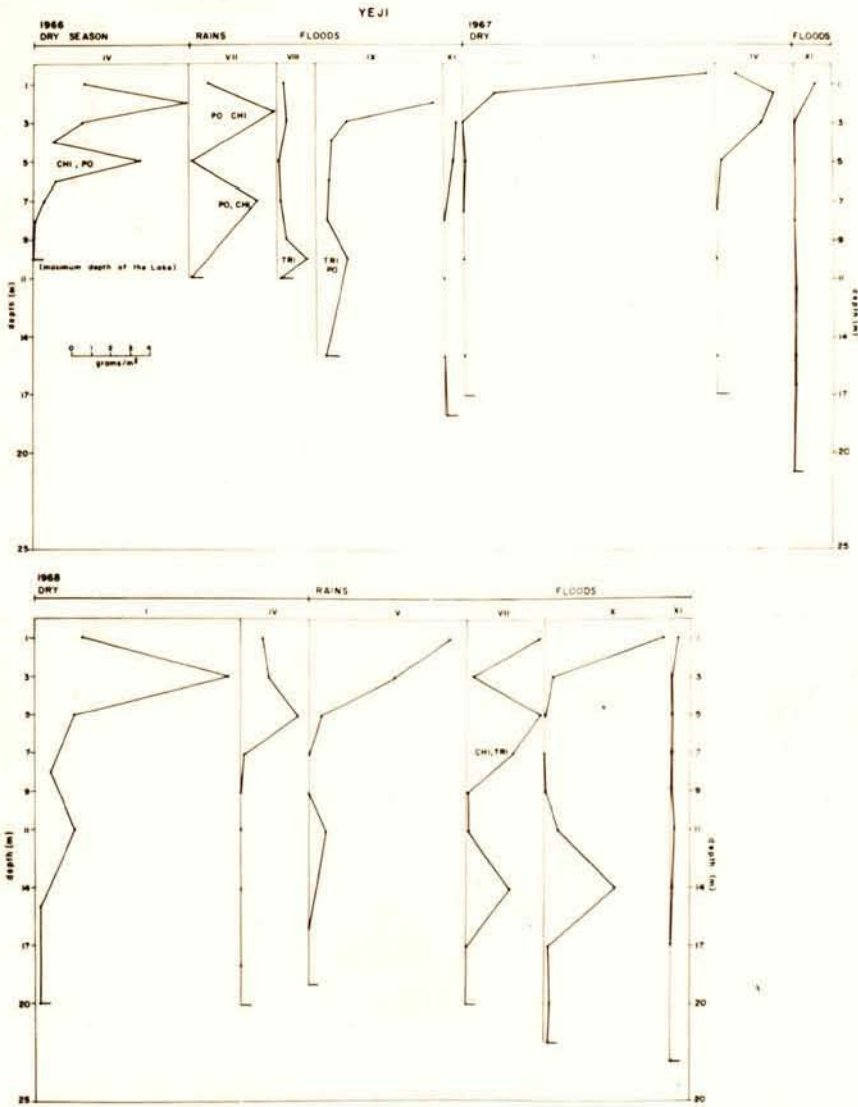


Fig.58. Depth distribution of total bottom fauna at Yeji expressed as standing crop in g/m^2 .

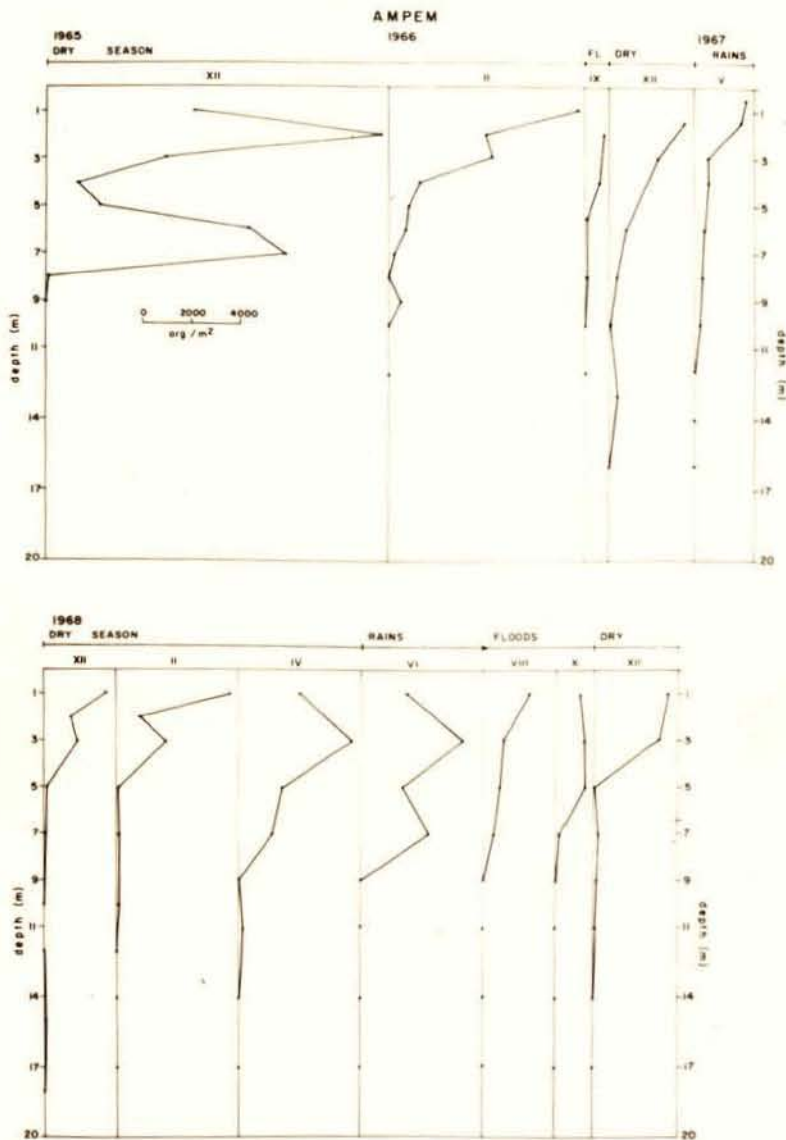


Fig.59. Depth distribution of total bottom fauna at Ampem expressed as number of organisms per m².

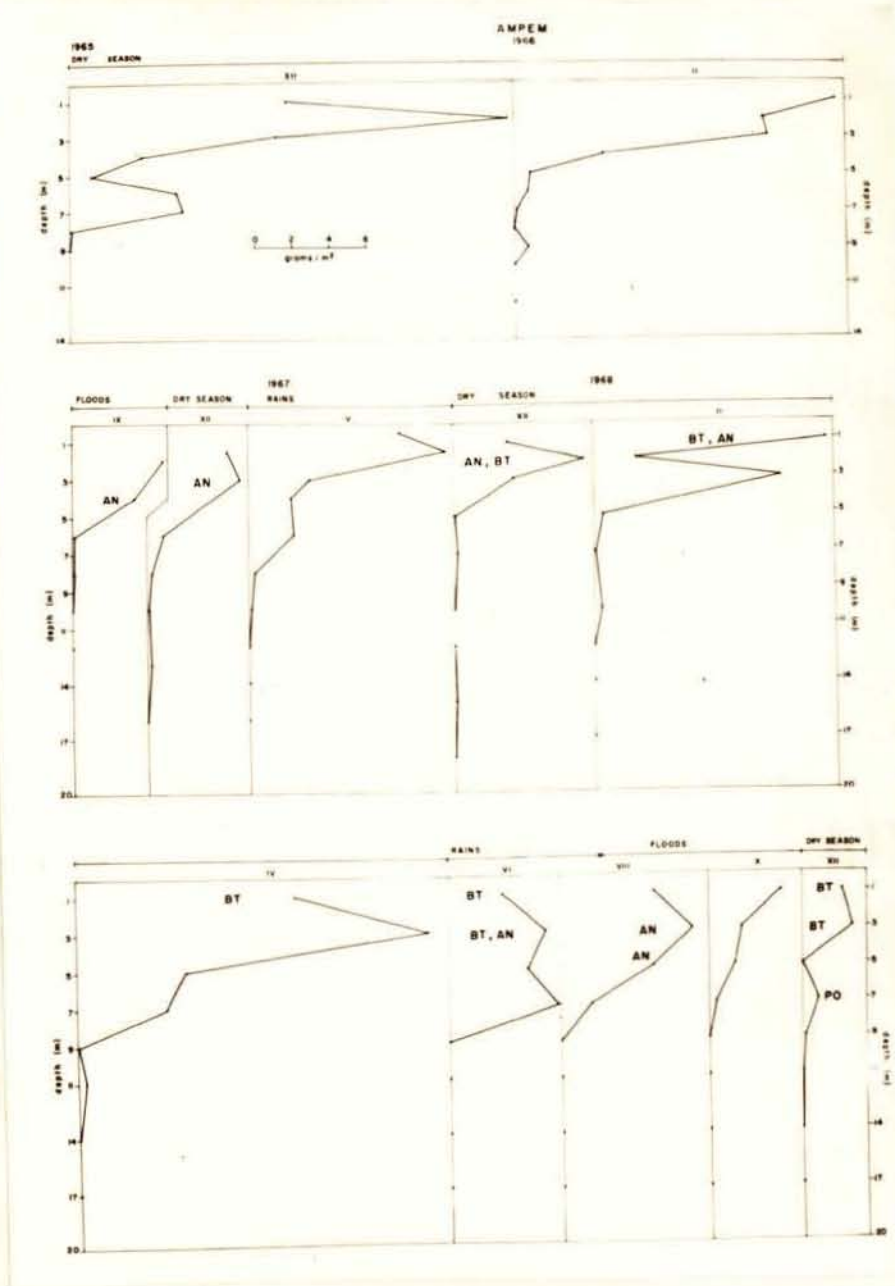


Fig.60. Depth distribution of total bottom fauna at Ampem expressed as standing crop in g/m^2 .
 AN = Anisoptera; BT = *Bulinus truncatus*; PO = *Povilla*

AKOSOMBO - JANUARY

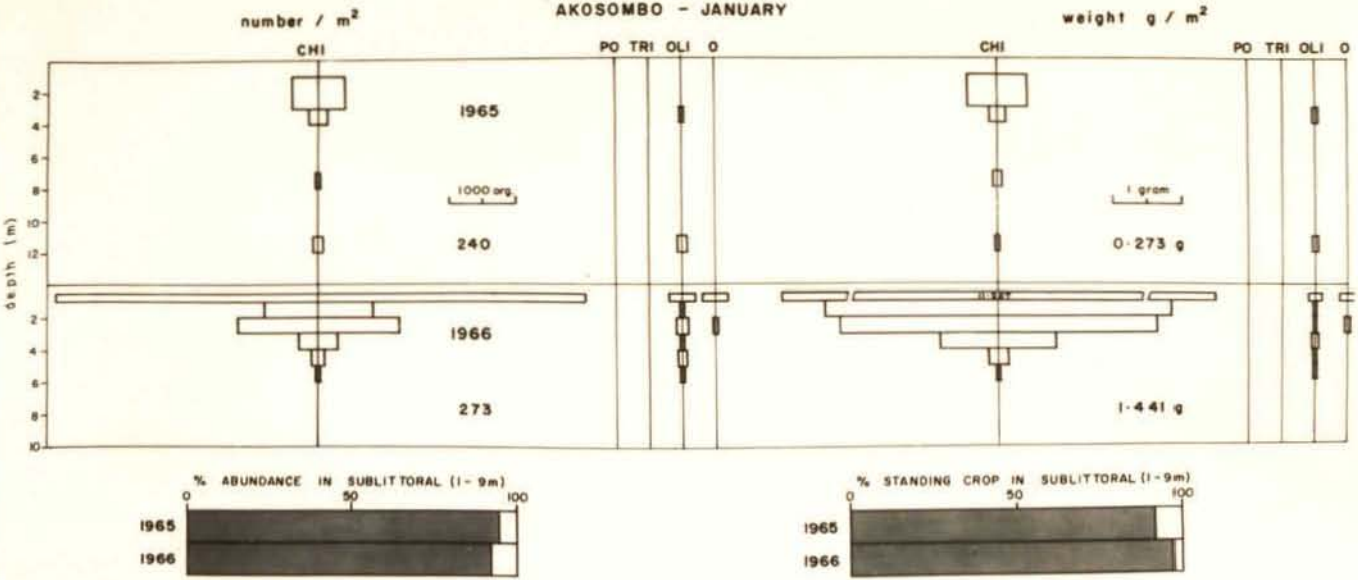


Fig.61. Depth distribution of five major groups of bottom fauna at Akosombo in January 1965 and 1966. For this figure and figures 62 to 82 the following symbols have been used:
 Chi ■ = Chironomidae, Po ▨ = Povilla, Tri ▩ = Trichoptera,
 Oli □ = Oligochaeta, Cha ▧ = Chaoboridae, O ▨ = Other organisms.

AKOSOMBO - MARCH

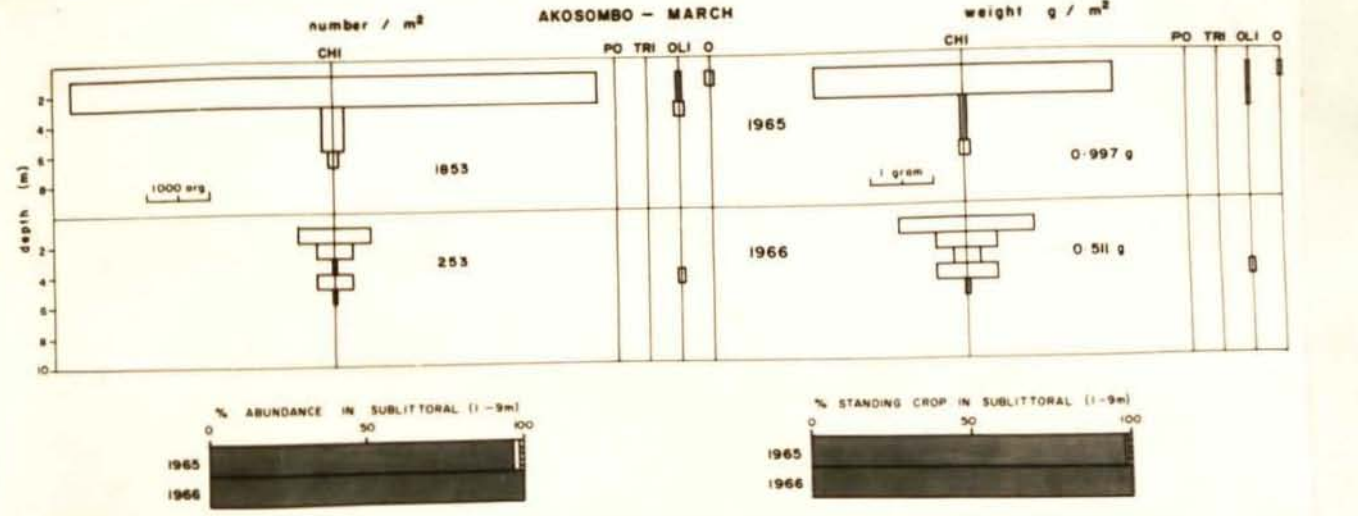


Fig.62. Depth distribution of five major groups of bottom fauna at Akosombo in March 1965 and 1966.

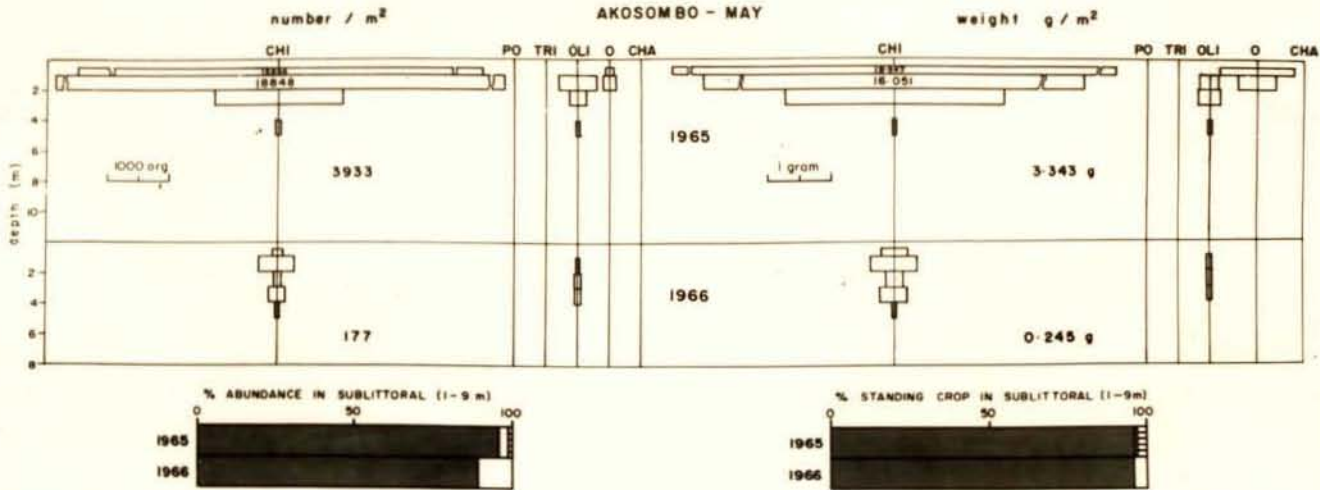


Fig.63. Depth distribution of five major groups of bottom fauna at Akosombo in May 1965 and 1966.

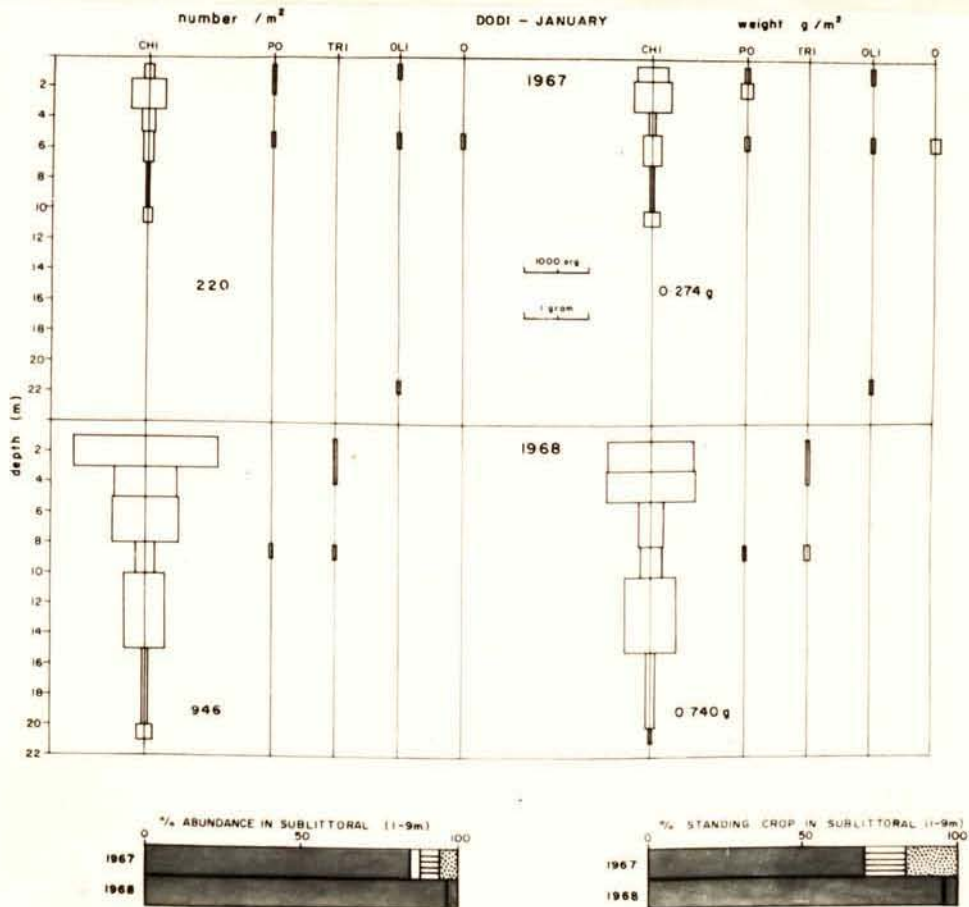


Fig. 64. Depth distribution of five major groups of bottom fauna at Dodi in January 1967 and 1968.

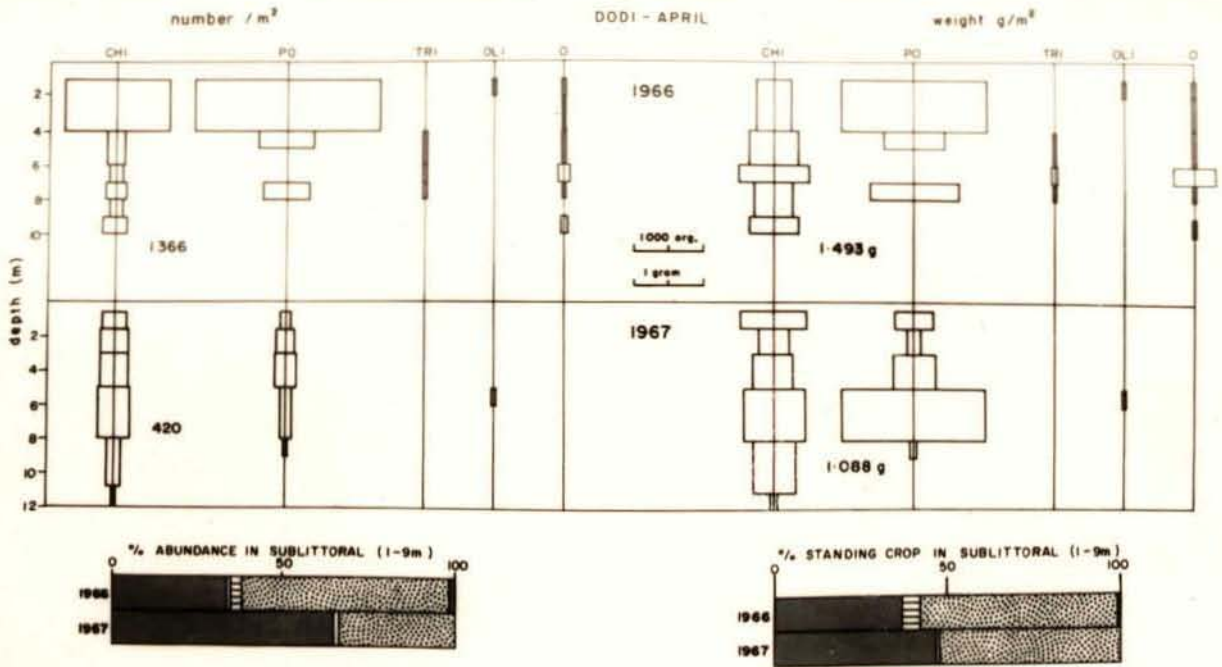


Fig. 65. Depth distribution of five major groups of bottom fauna at Dodi in April 1967 and 1968.

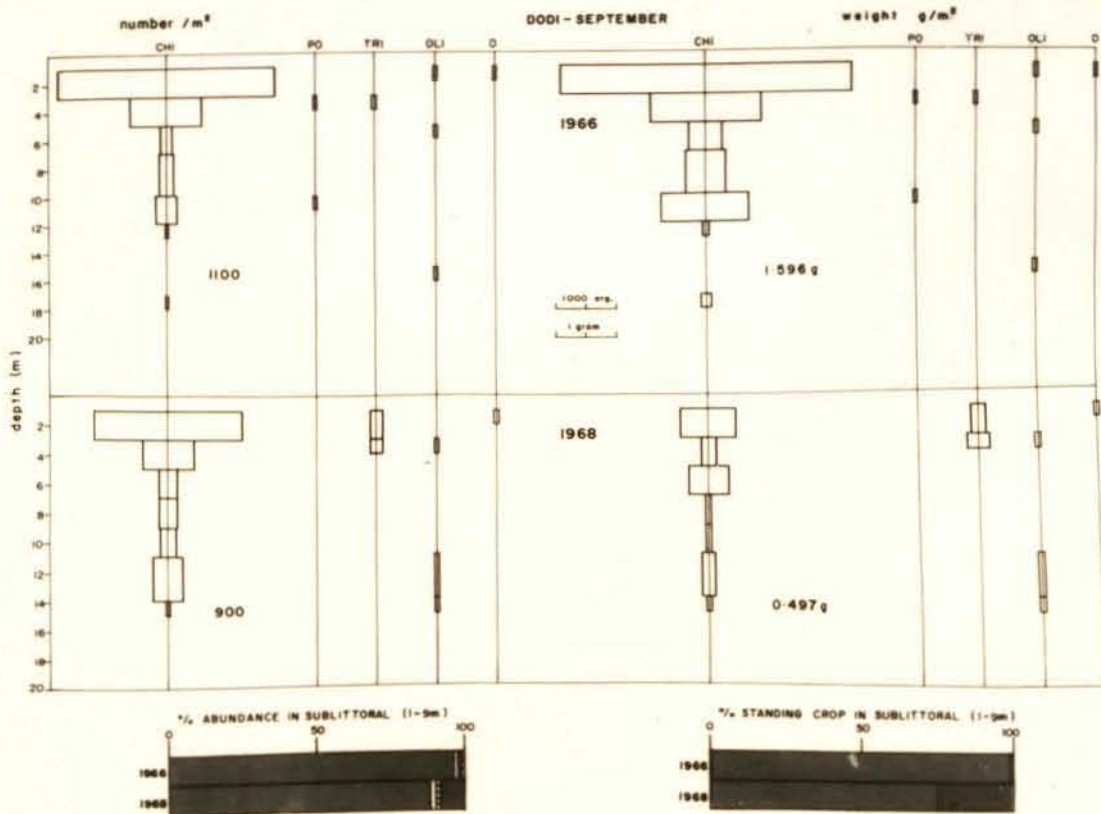


Fig. 66. Depth distribution of five major groups of bottom fauna at Dodi in September 1966 and 1968.

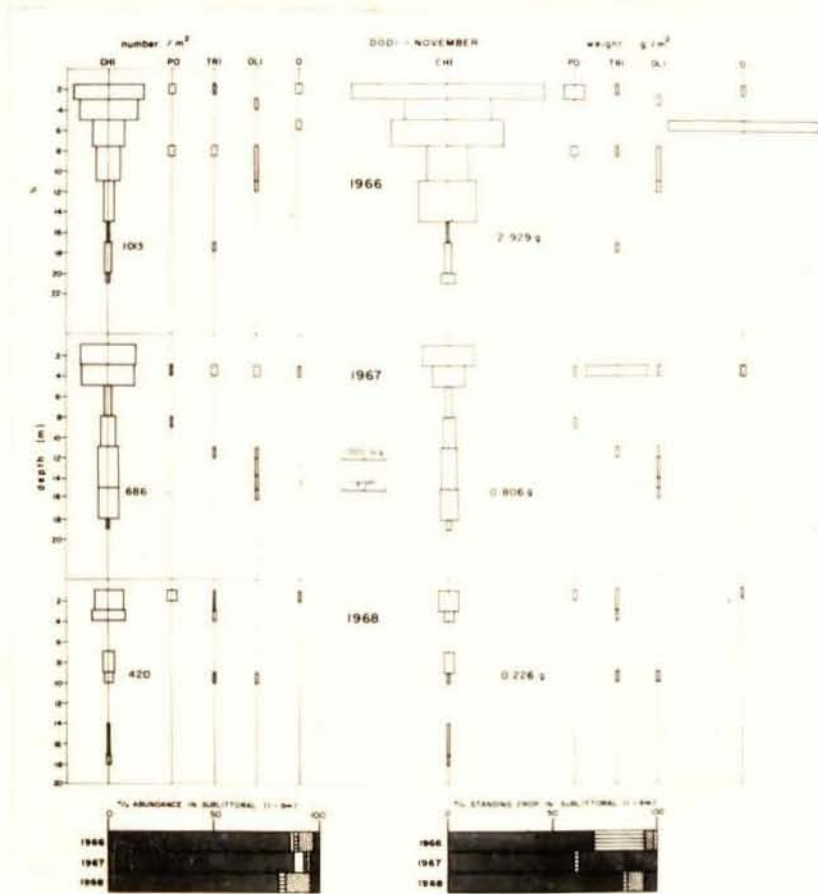


Fig.67. Depth distribution of five major groups of bottom fauna at Dodi in November 1966, 1967 and 1968.

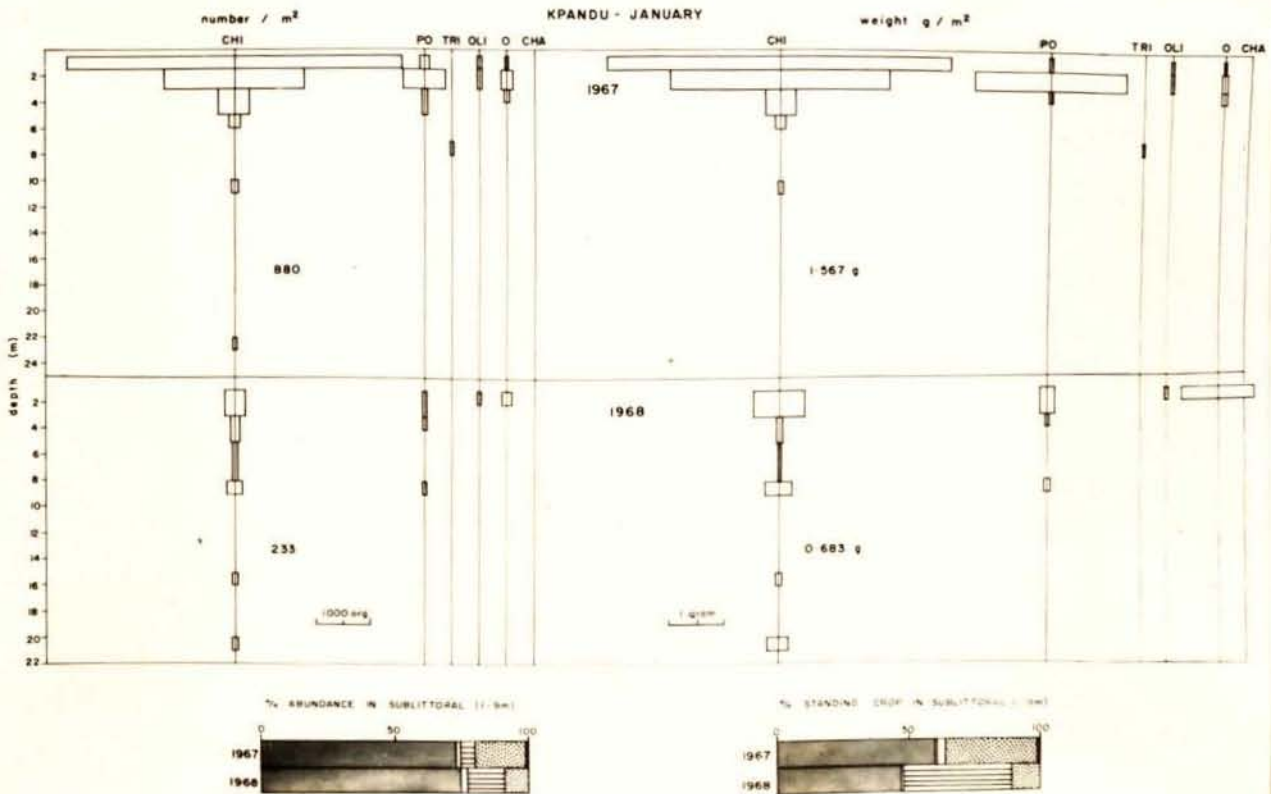


Fig.68. Depth distribution of six major groups of bottom fauna at Kpandu in January 1967 and 1968.

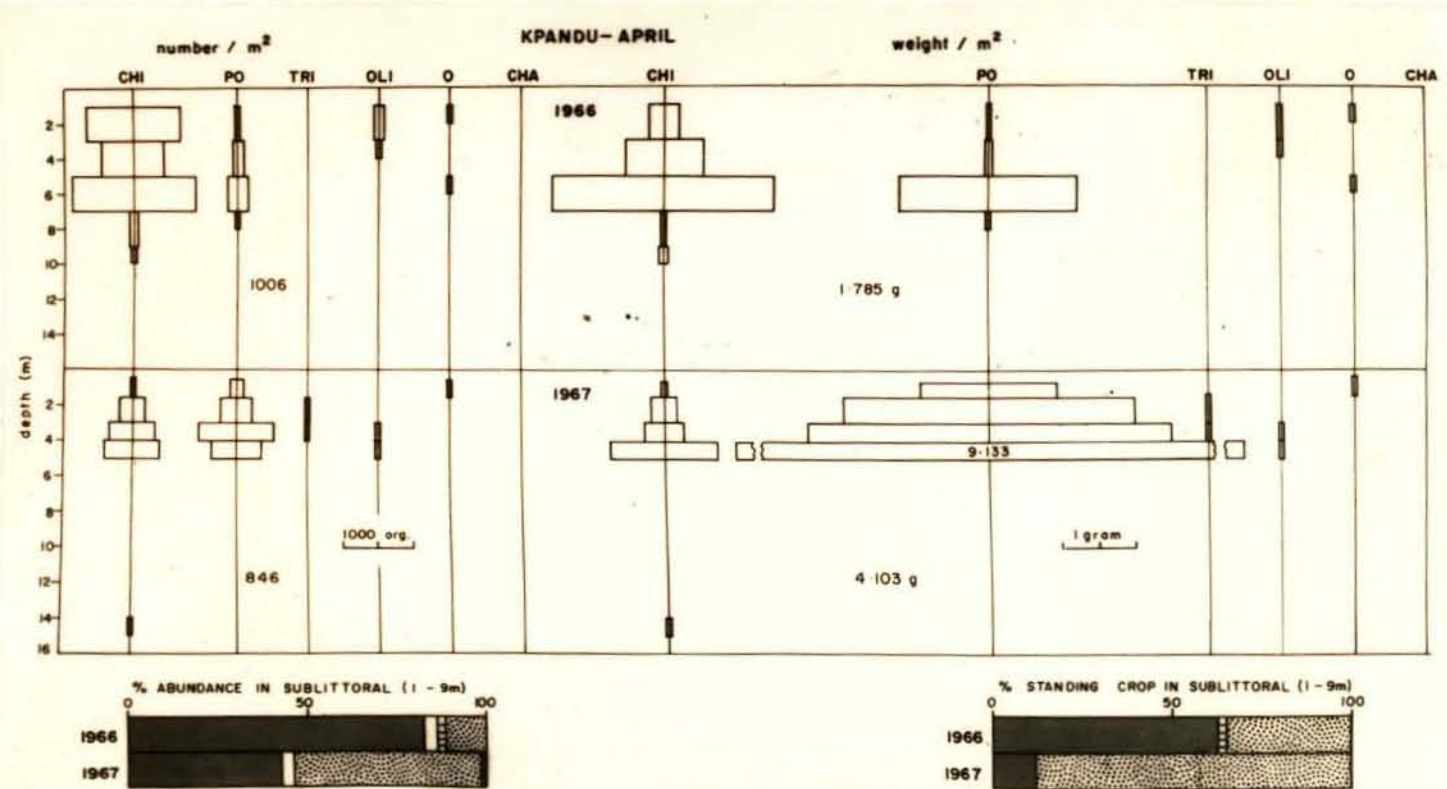


Fig.69. Depth distribution of six major groups of bottom fauna at Kpandu in April 1966 and 1967.

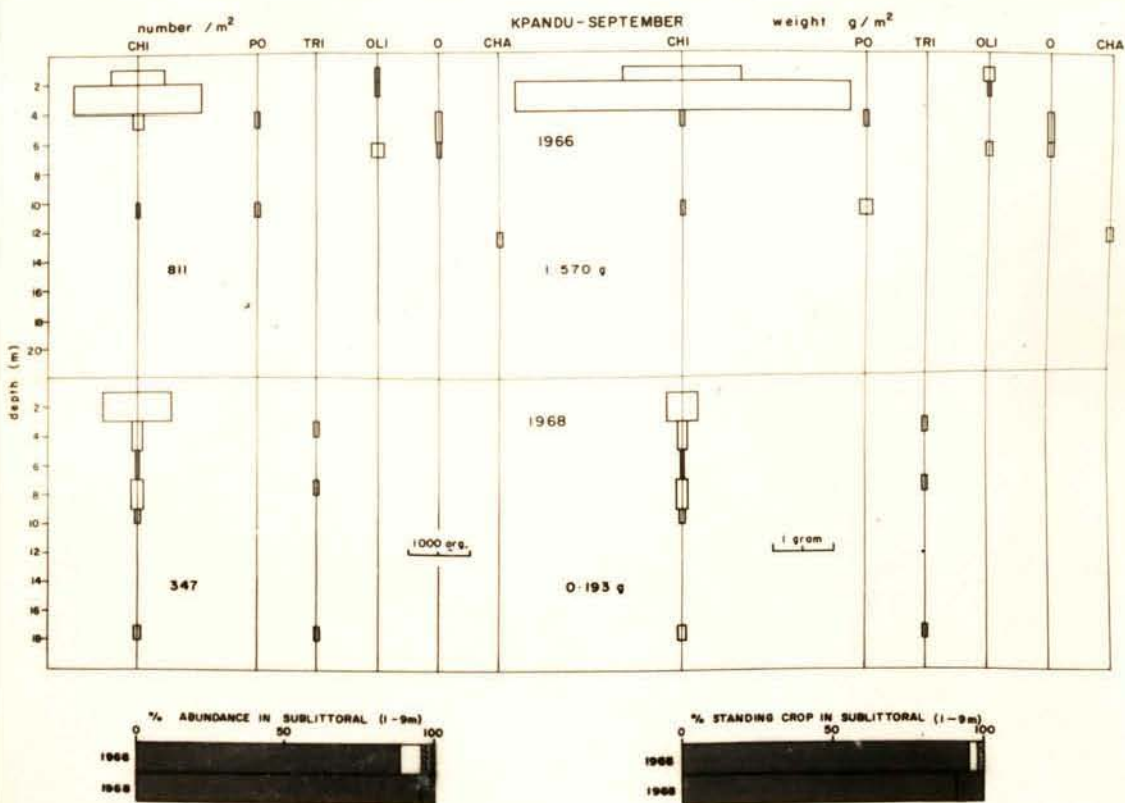


Fig.71. Depth distribution of six major groups of bottom fauna at Kpandu in September 1966 and 1968.

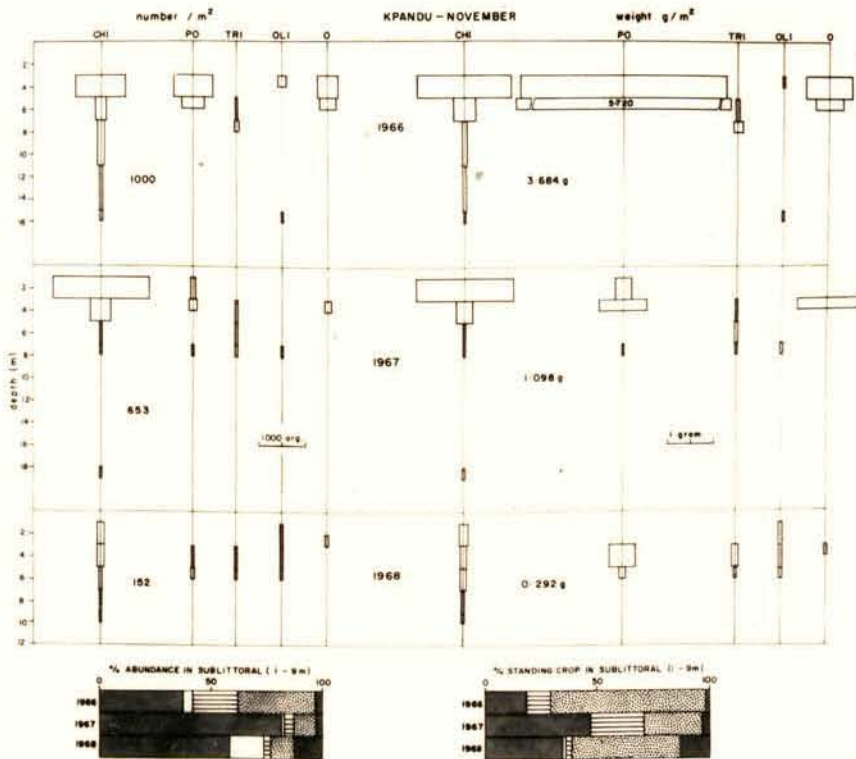


Fig.72. Depth distribution of five major groups of bottom fauna at Kpandu in November 1966, 1967 and 1968.

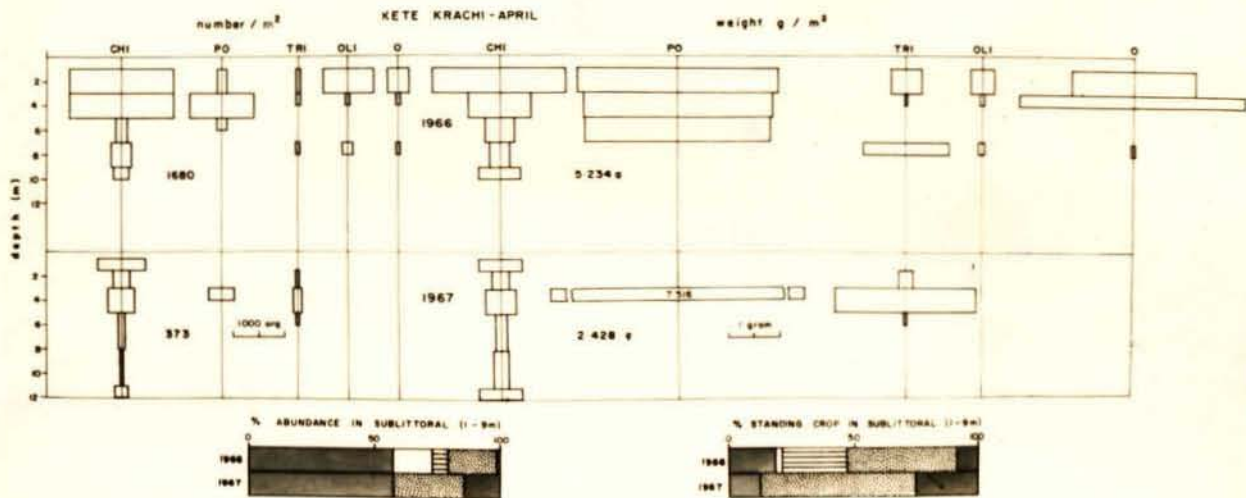


Fig.74. Depth distribution of five major groups of bottom fauna at Kete Krachi in April 1966 and 1967.

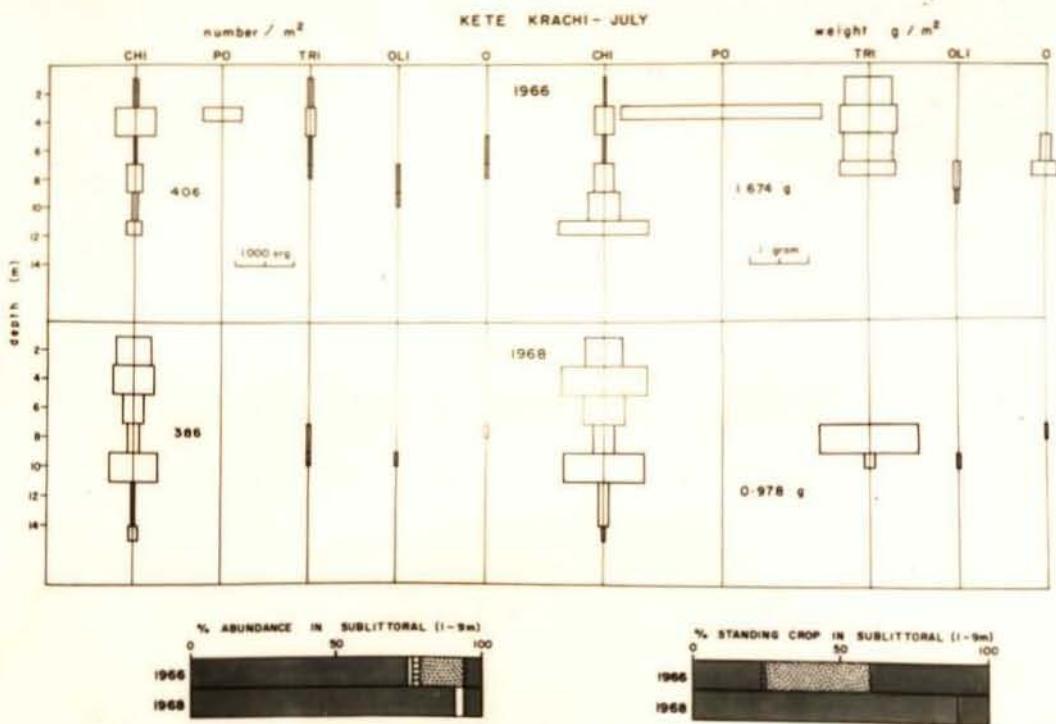


Fig.75. Depth distribution of five major groups of bottom fauna at Kete Krachi in July 1966 and 1968.

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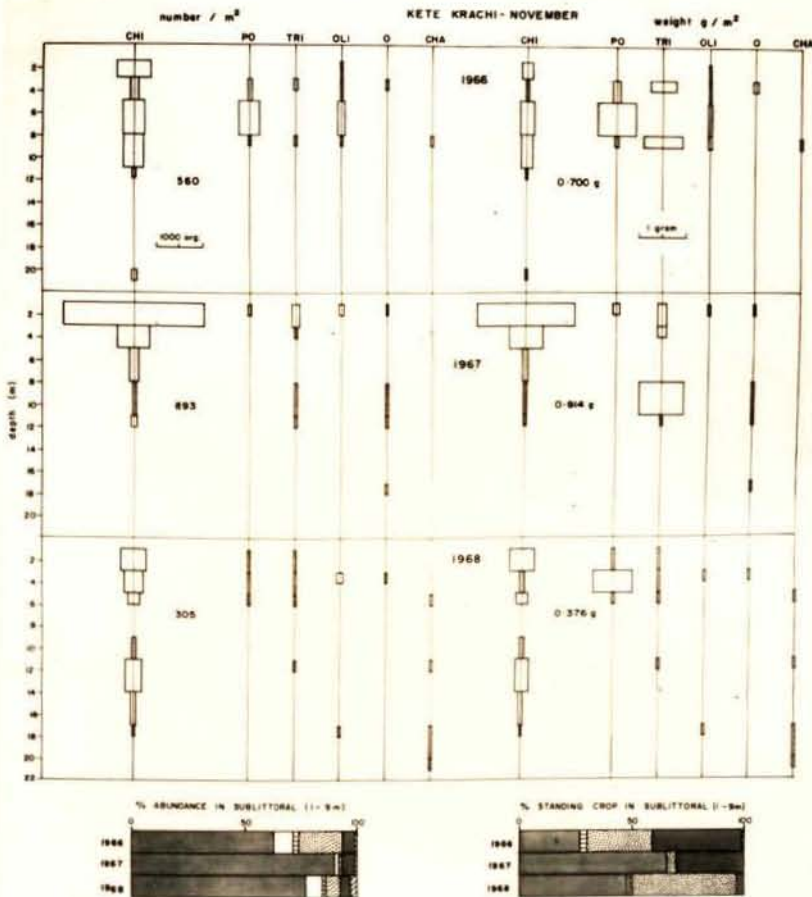


Fig. 76. Depth distribution of six major groups of bottom fauna at Kete Krachi in November 1966, 1967 and 1968.

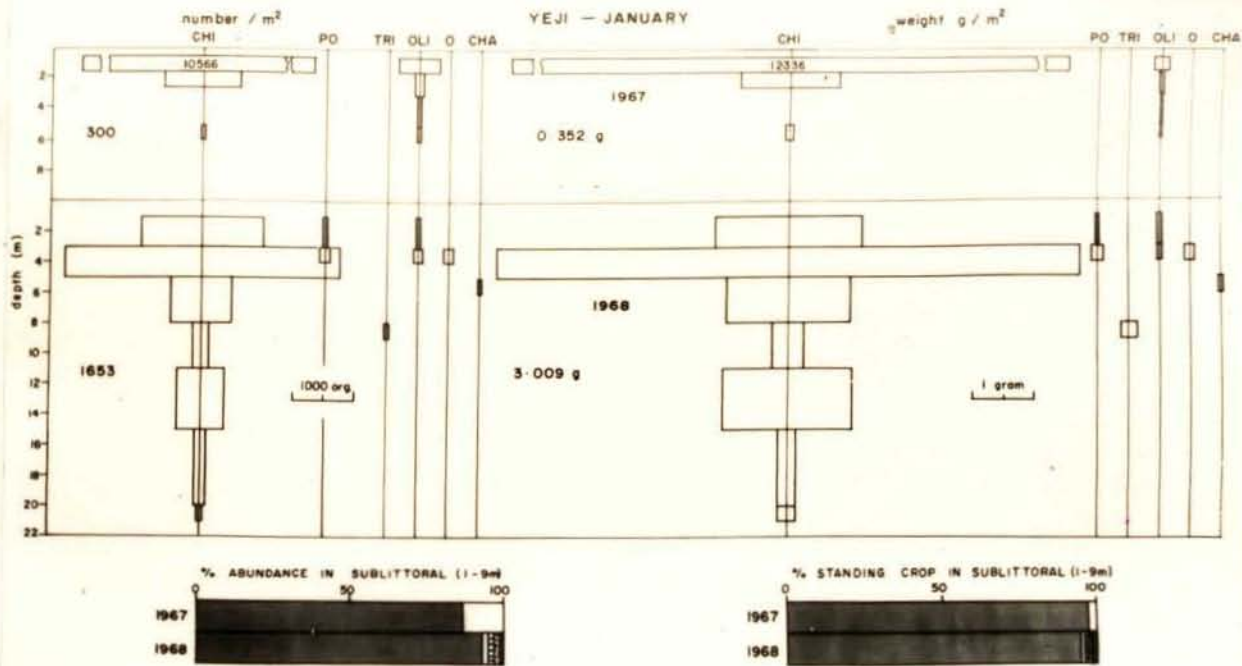


Fig. 77. Depth distribution of six major groups of bottom fauna at Yeji in January 1967 and 1968.

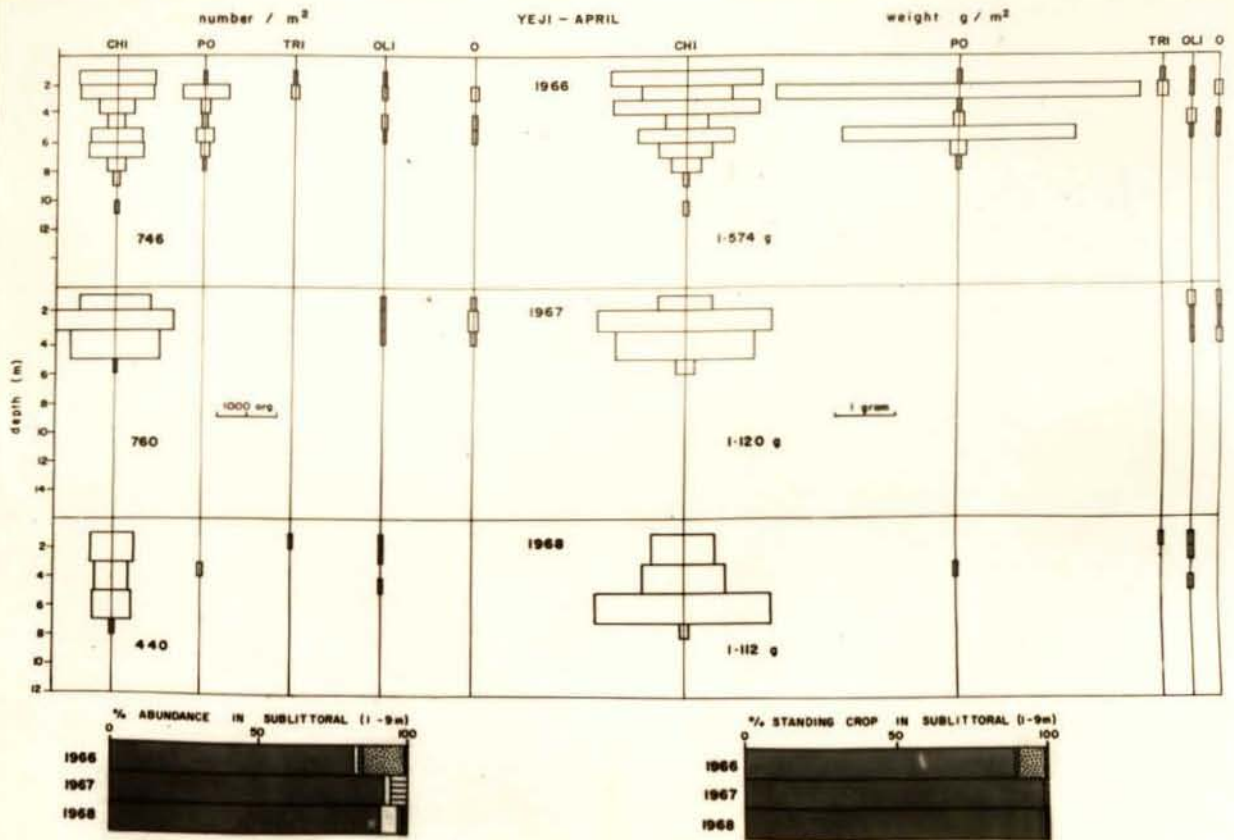


Fig. 78. Depth distribution of five major groups of bottom fauna at Yeji in April 1966, 1967 and 1968.



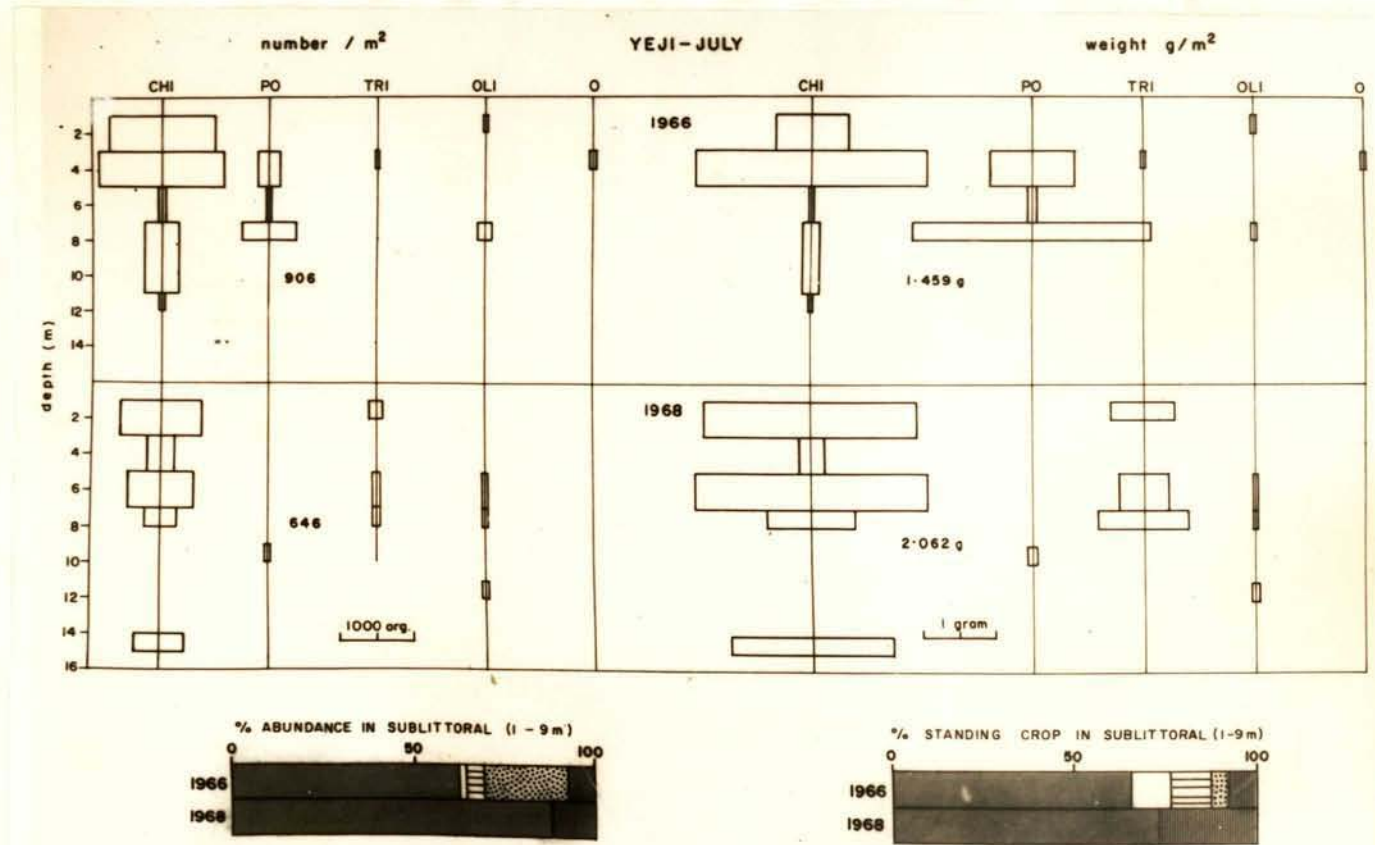


Fig.79. Depth distribution of five major groups of bottom fauna at Yeji in July 1966 and 1968.

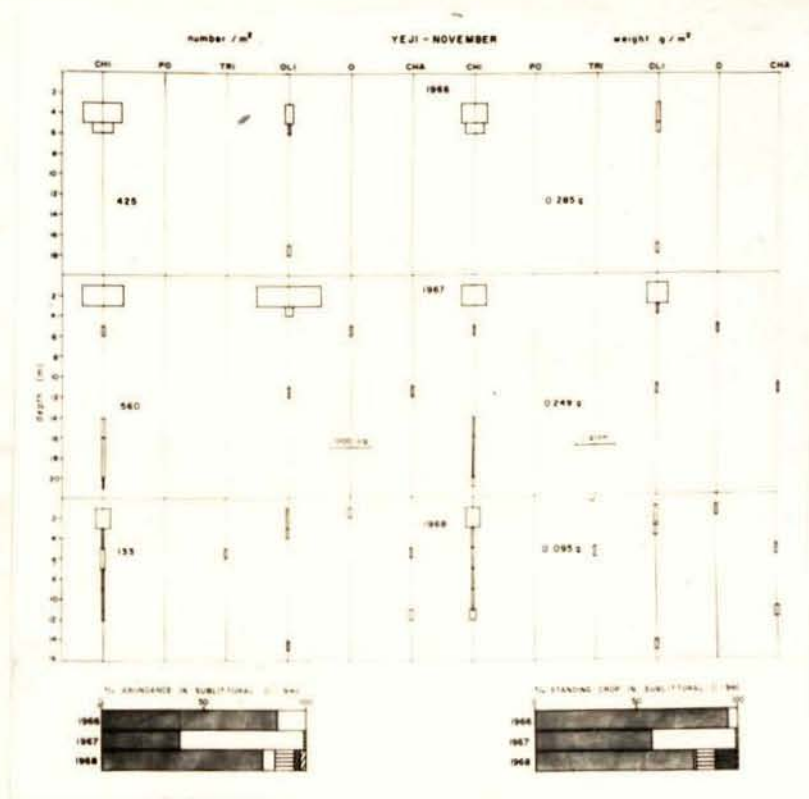


Fig. 80. Depth distribution of six major groups of bottom fauna at Yeji in November 1966, 1967 and 1968.

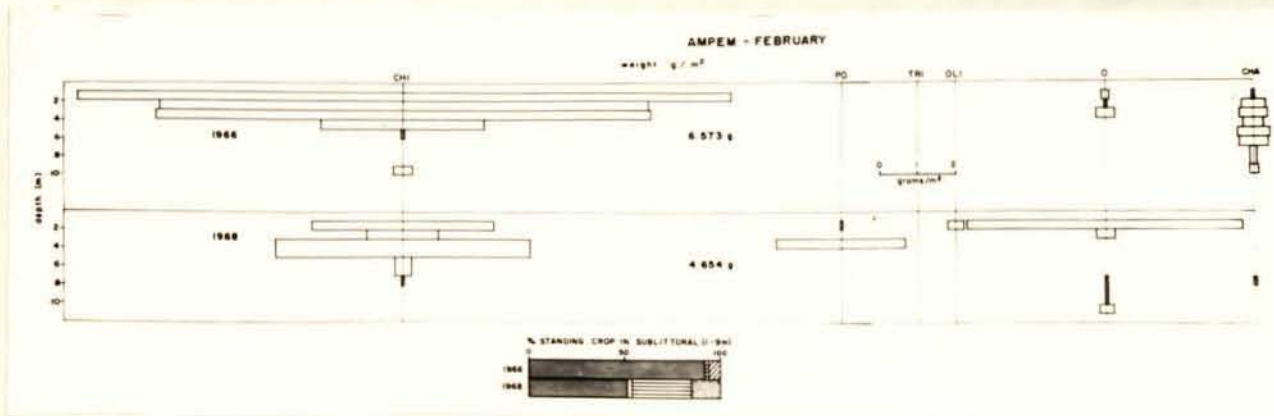
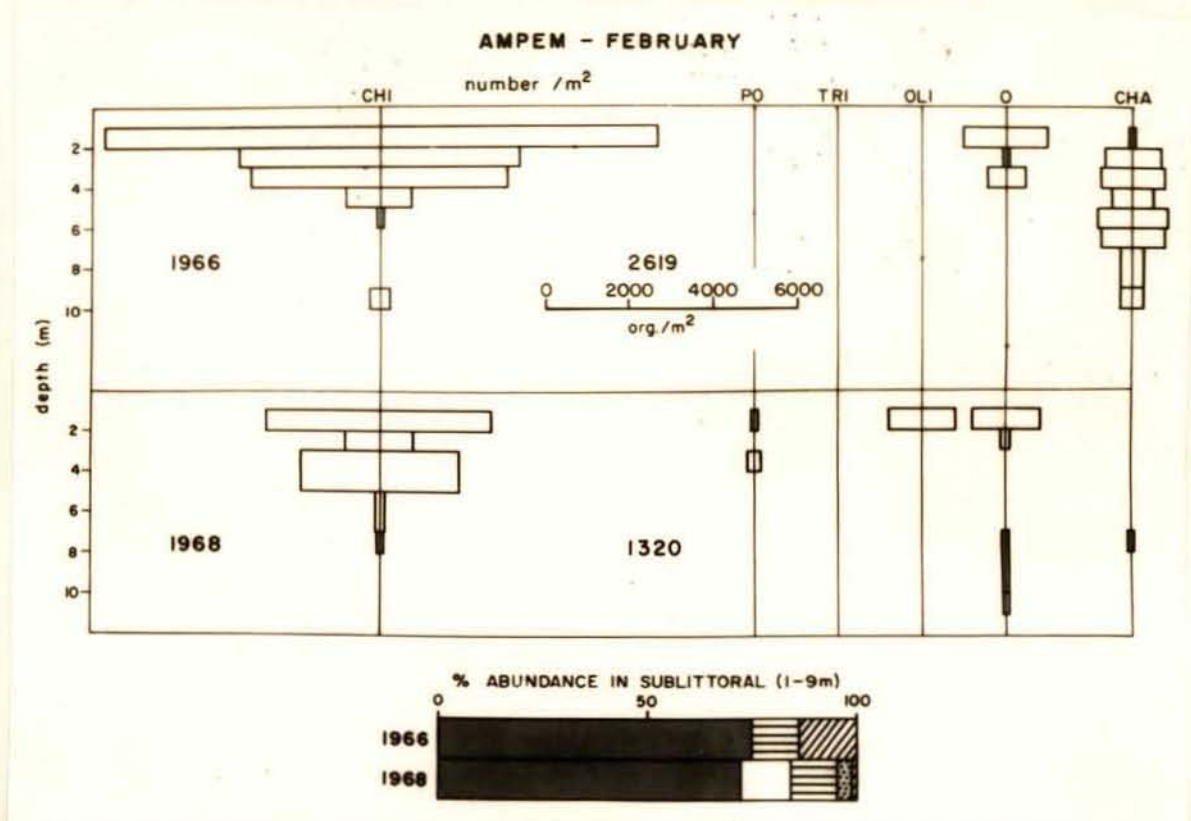


Fig.81. Depth distribution of six major groups of bottom fauna at Ampem in February 1966 and 1968.

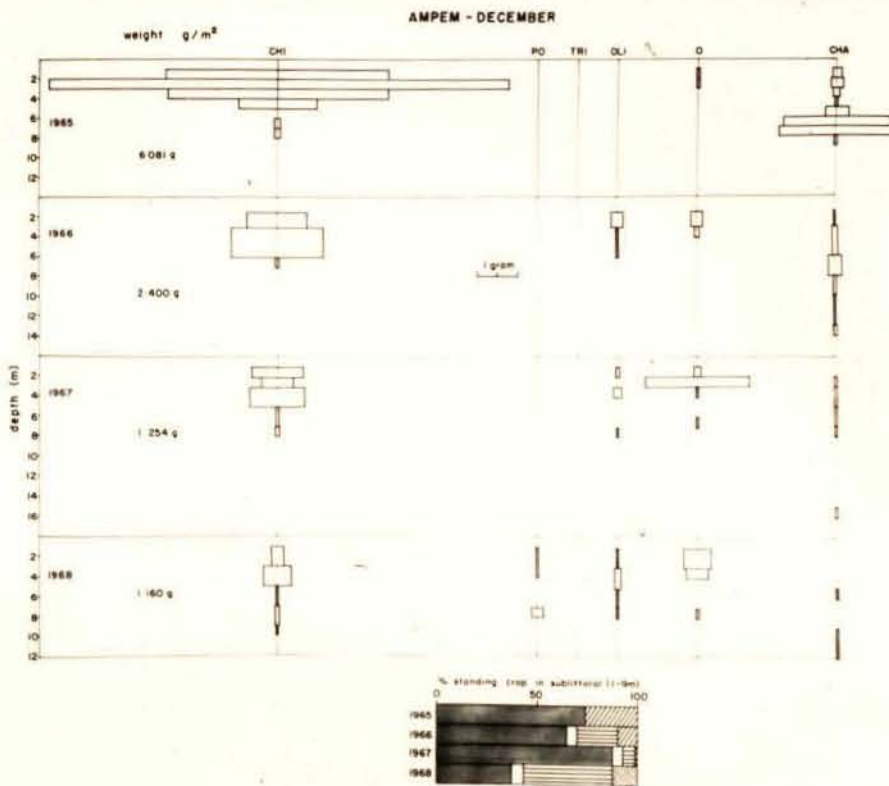
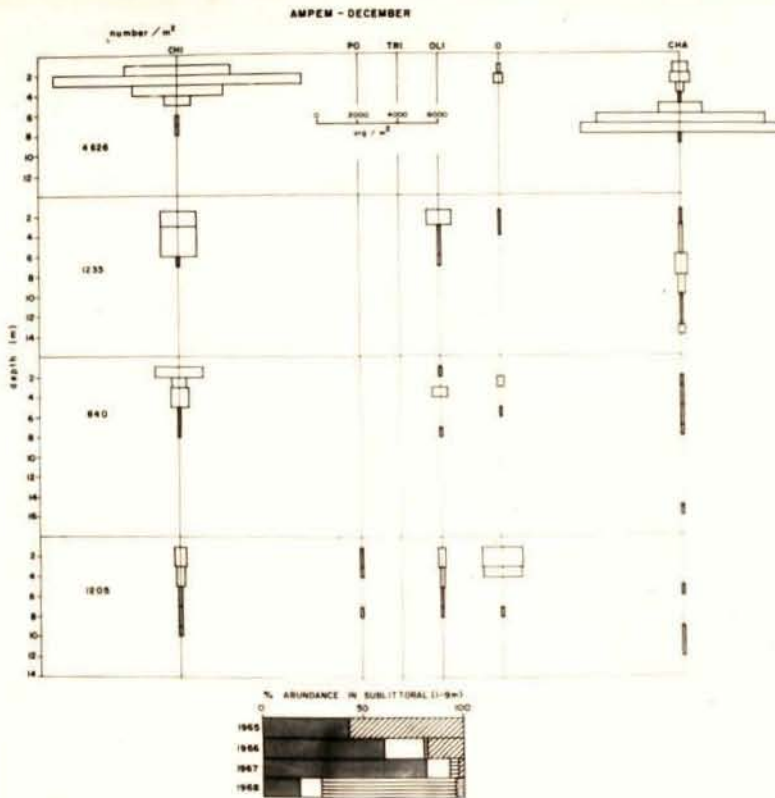


Fig.82.
Depth distribution of six major groups of bottom fauna at Ampem in December 1965, 1966, 1967, and 1968.

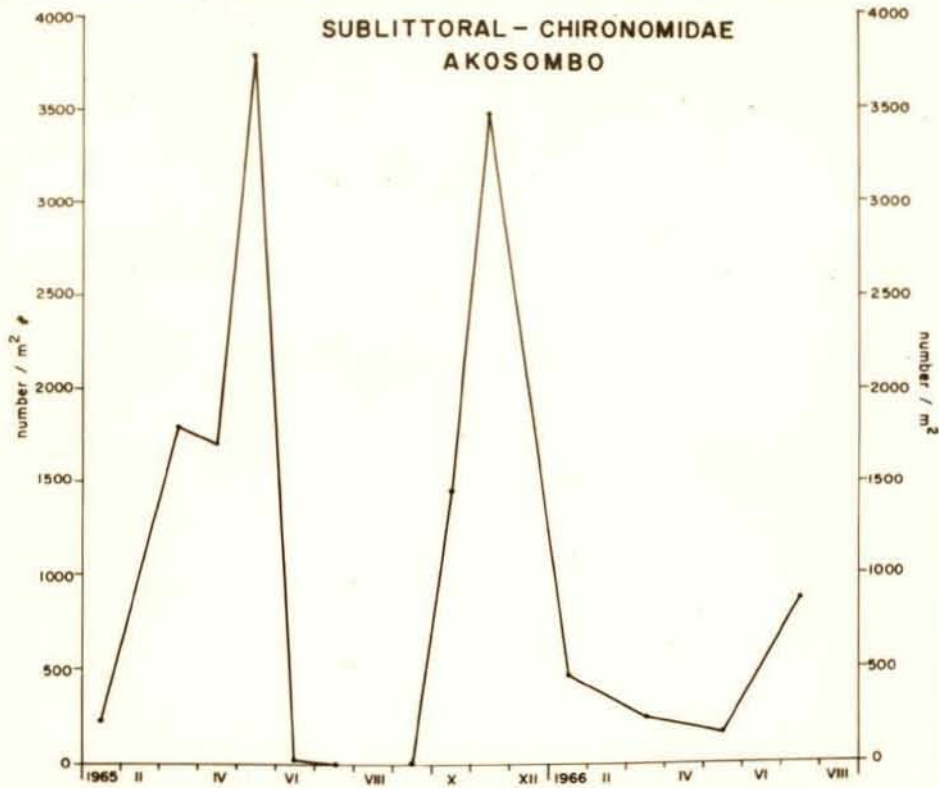


Fig. 83.
Abundance of chironomid larvae in sublittoral zone (1-9m depth) at Akosombo during the period January 1965 to July 1966.

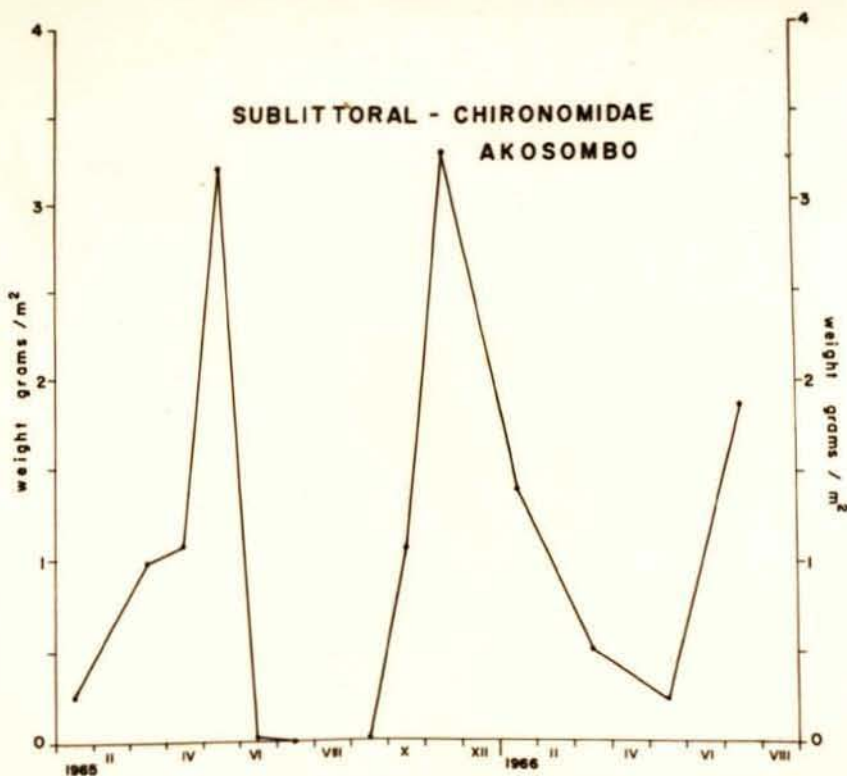


Fig. 84.
Standing crop of chironomid larvae in sublittoral zone at Akosombo during the period January 1965 to July 1966.

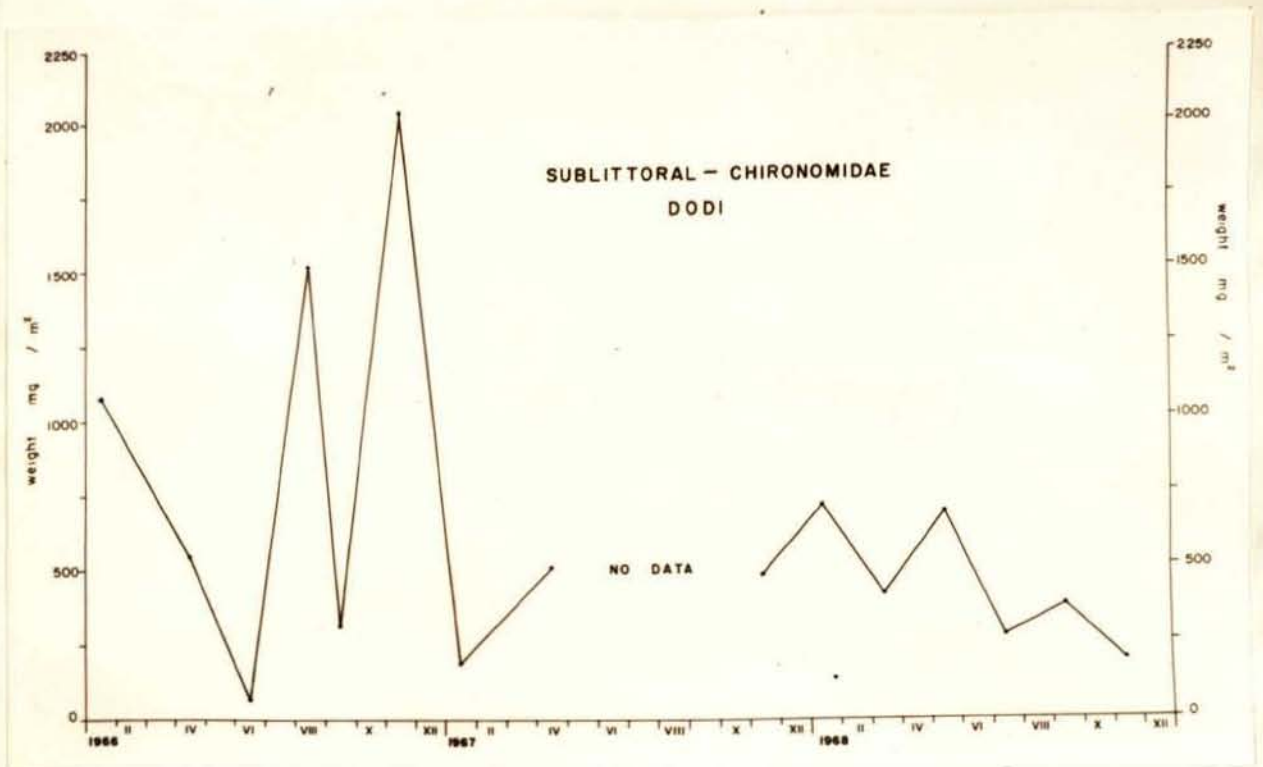


Fig.86. Standing crop of chironomid larvae in sublittoral at Dodi from 1966 to 1968.

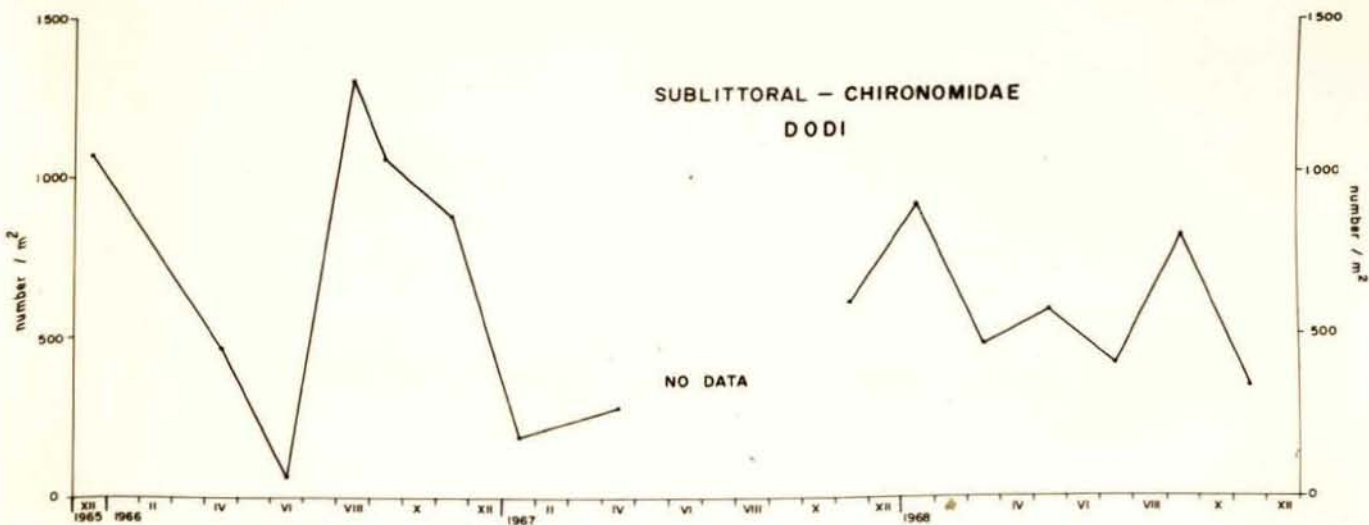


Fig.85. Abundance of chironomid larvae in sublittoral at Dodi from 1966 to 1968.

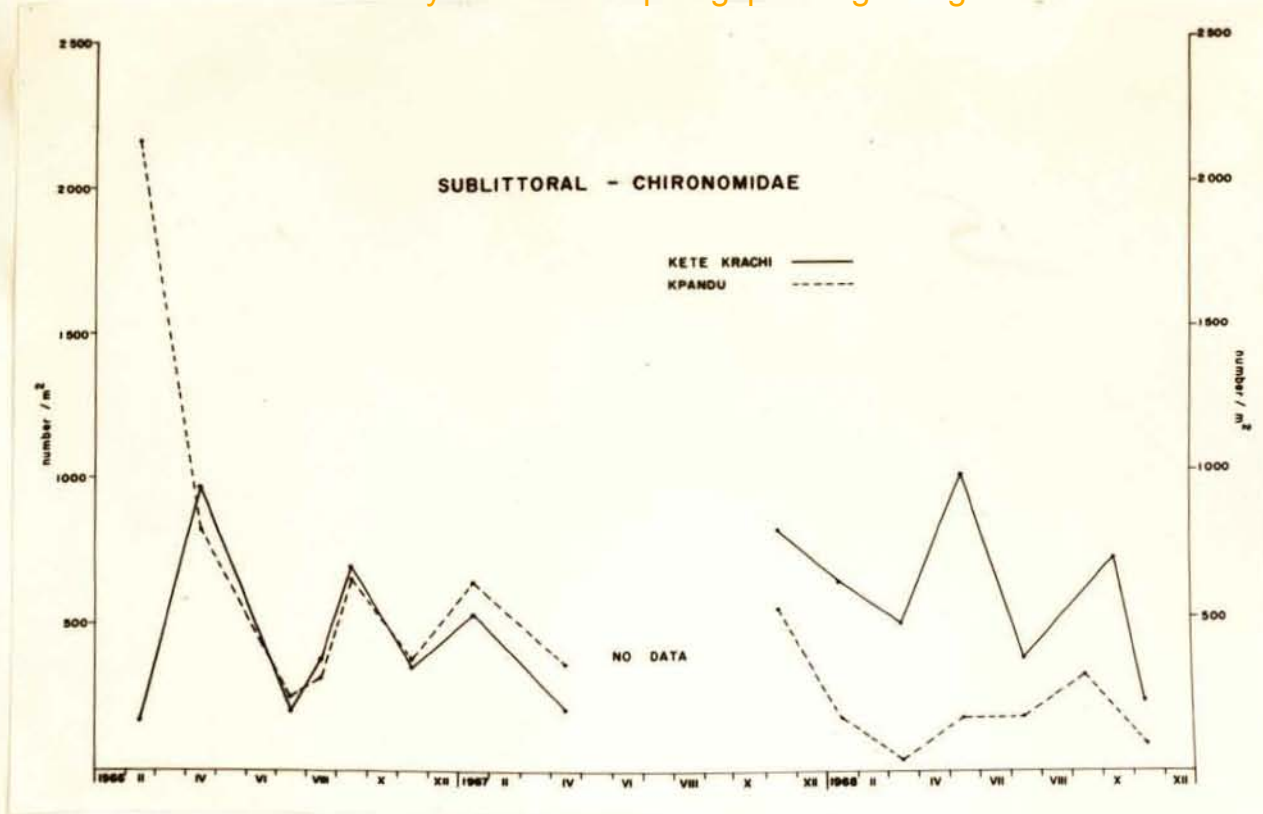


Fig.87. Abundance of chironomid larvae in sublittoral at Kpandu and Kete Krachi from 1966 to 1968.

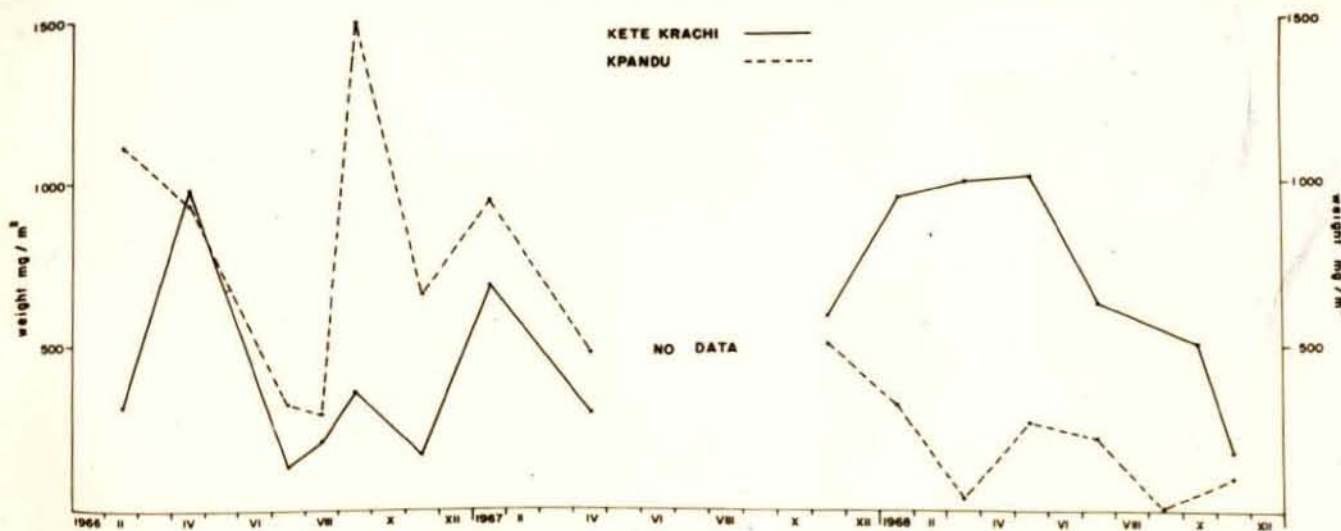


Fig.88. Standing crop of chironomid larvae in sublittoral at Kpandu and Kete Krachi from 1966 to 1968.

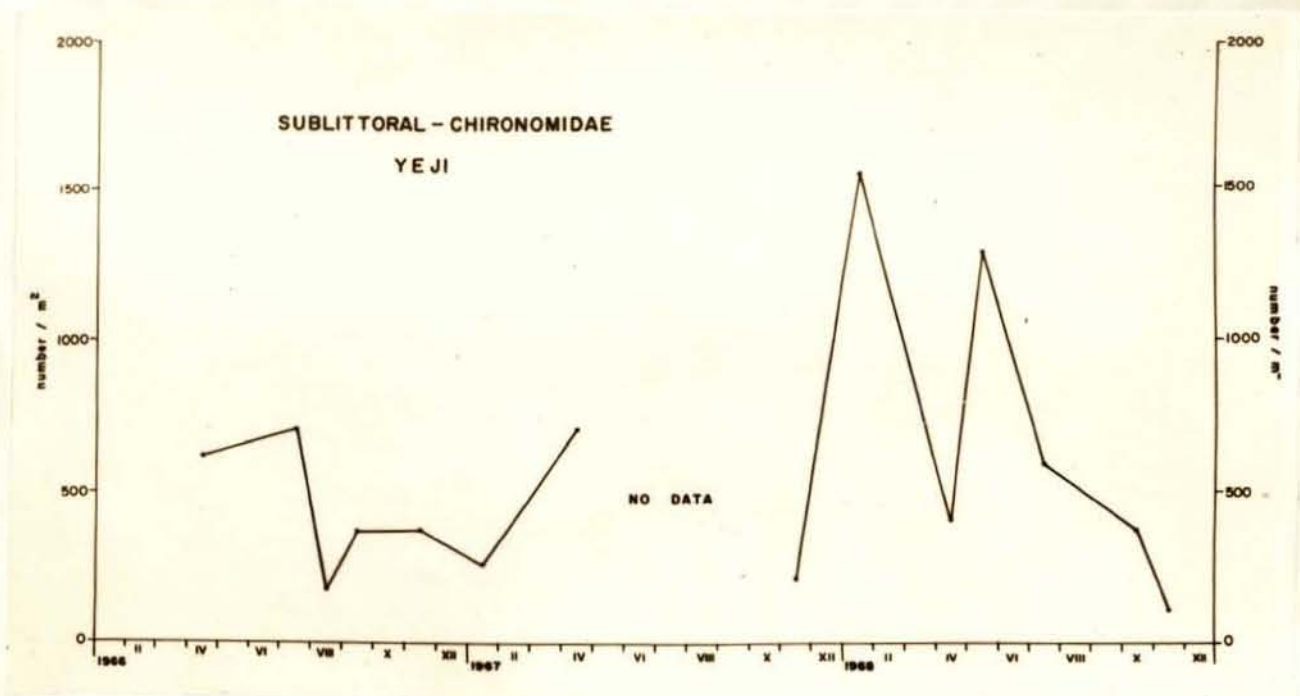


Fig.89. Abundance of chironomid larvae in sublittoral at Yeji from 1966 to 1968.

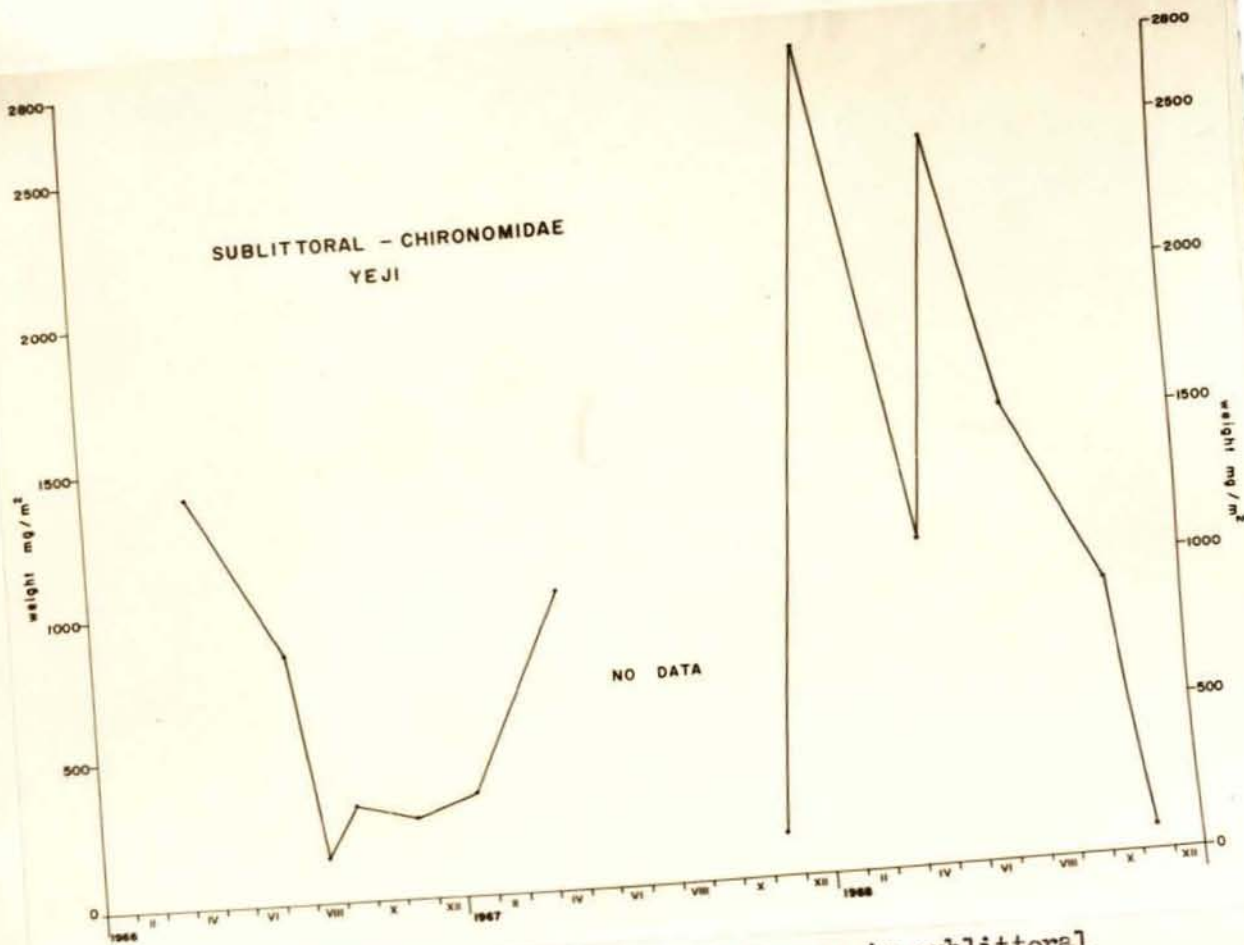


Fig.90. Standing crop of chironomid larvae in sublittoral at Yeji from 1966 to 1968.

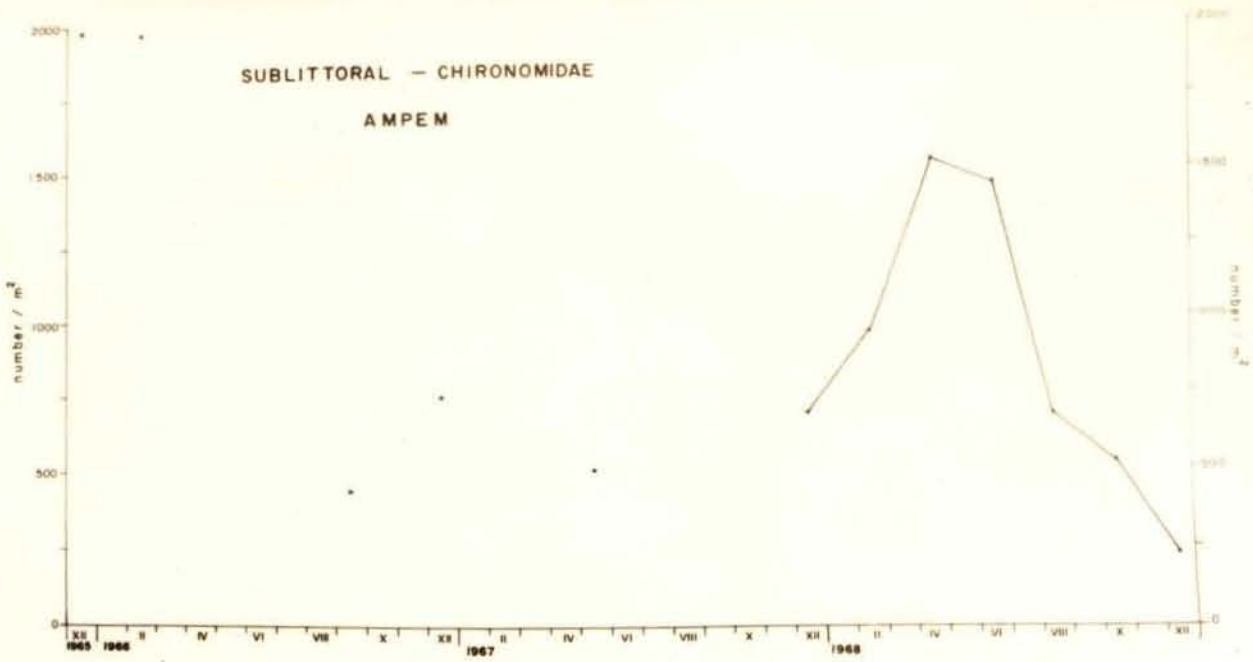


Fig.91. Abundance of chironomid larvae in sublittoral at Ampem from 1966 to 1968.

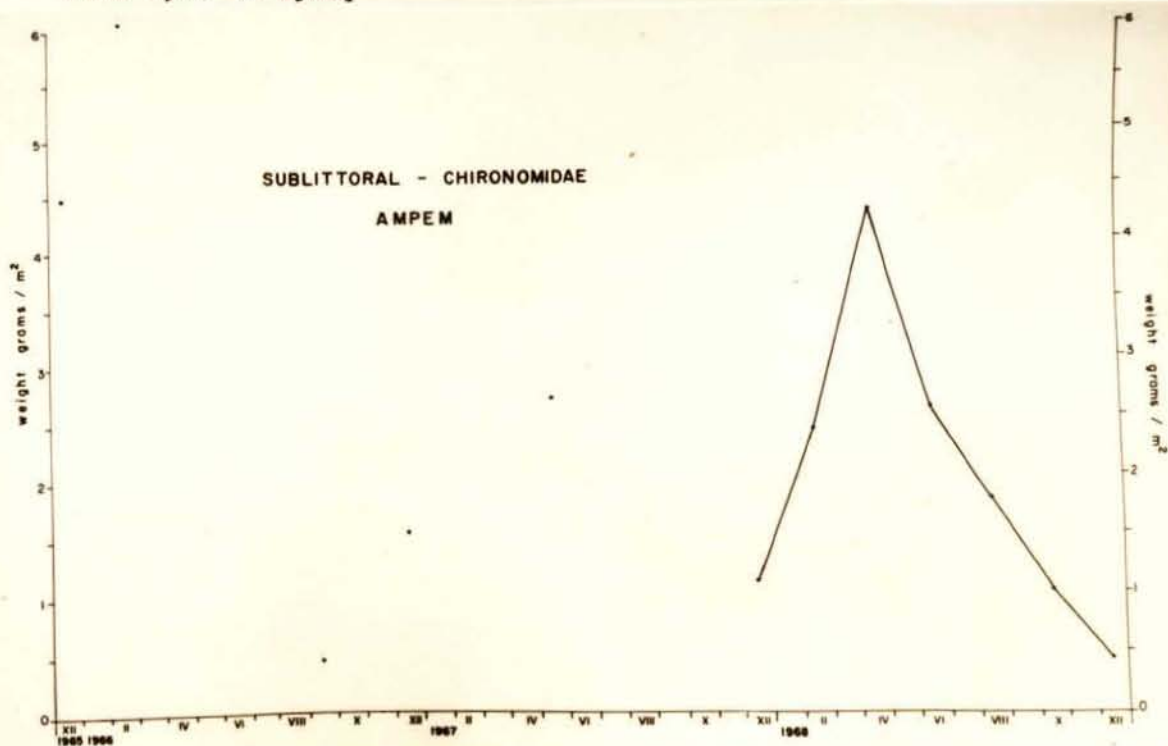


Fig.92. Standing crop of chironomid larvae in sublittoral at Ampem from 1966 to 1968.

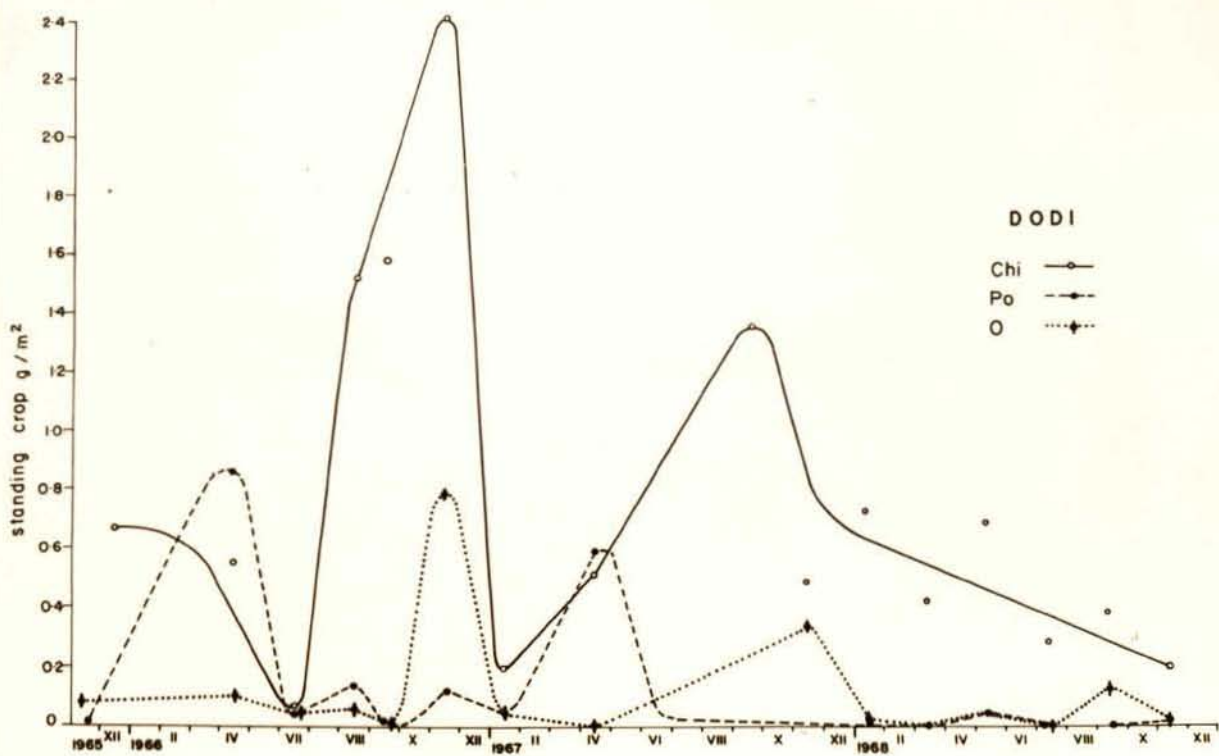


Fig. 93. Standing crop of Chironomidae (Chi), Povilla (Po), and all other organisms (O) at Dodi from 1965 to 1968.

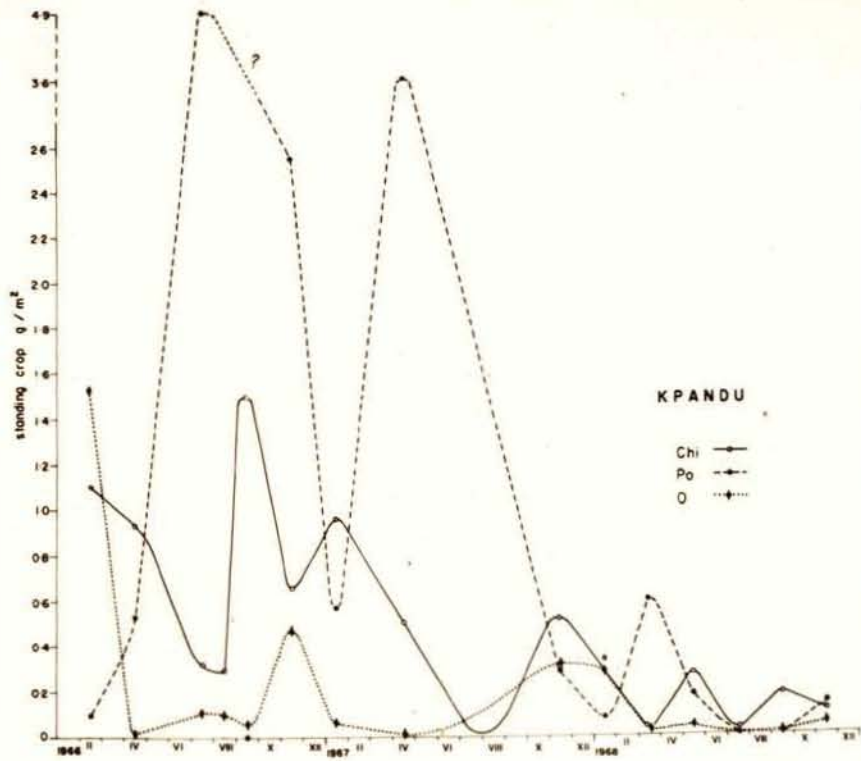


Fig. 94. Standing crop of Chironomidae, Povilla and all other organisms at Kpandu from 1966 to 1968. Symbols as in Fig. 93.

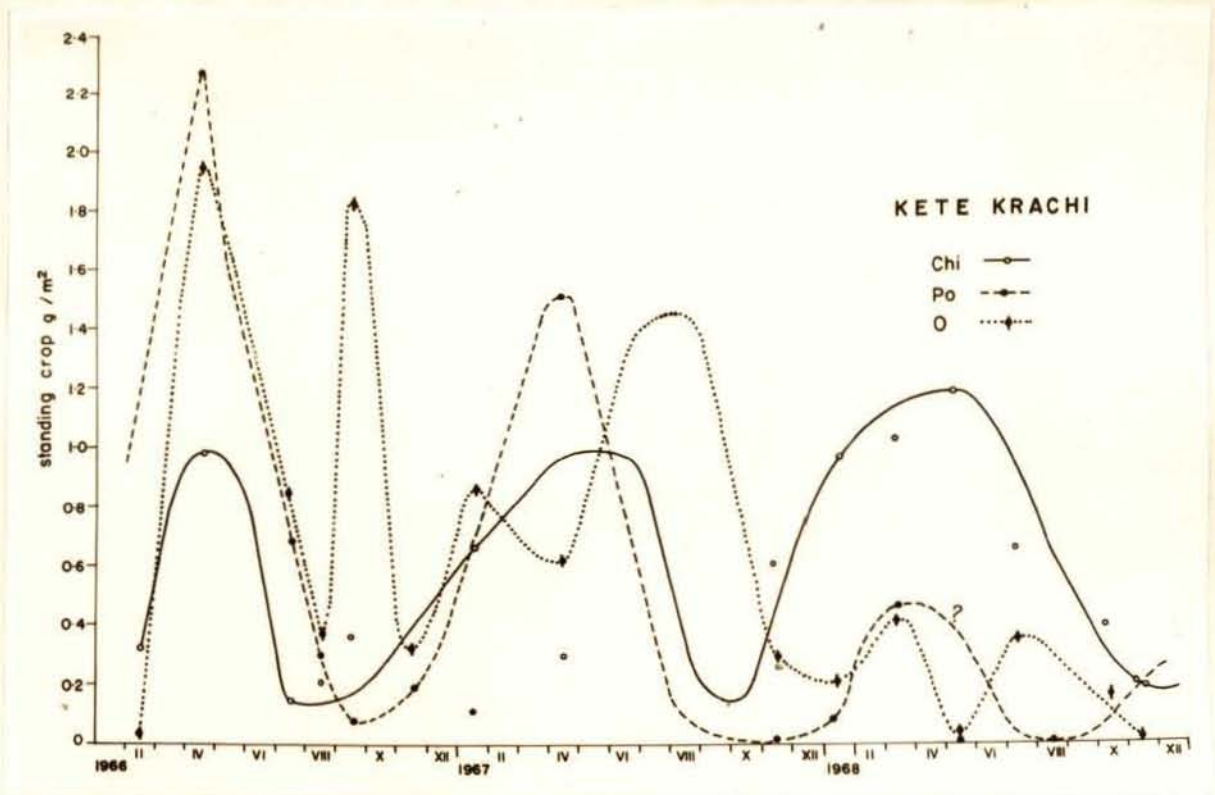


Fig.95. Standing crop of Chironomidae, Povilla and all other organisms at Kete Krachi from 1966 to 1968. Symbols as in Fig.93.

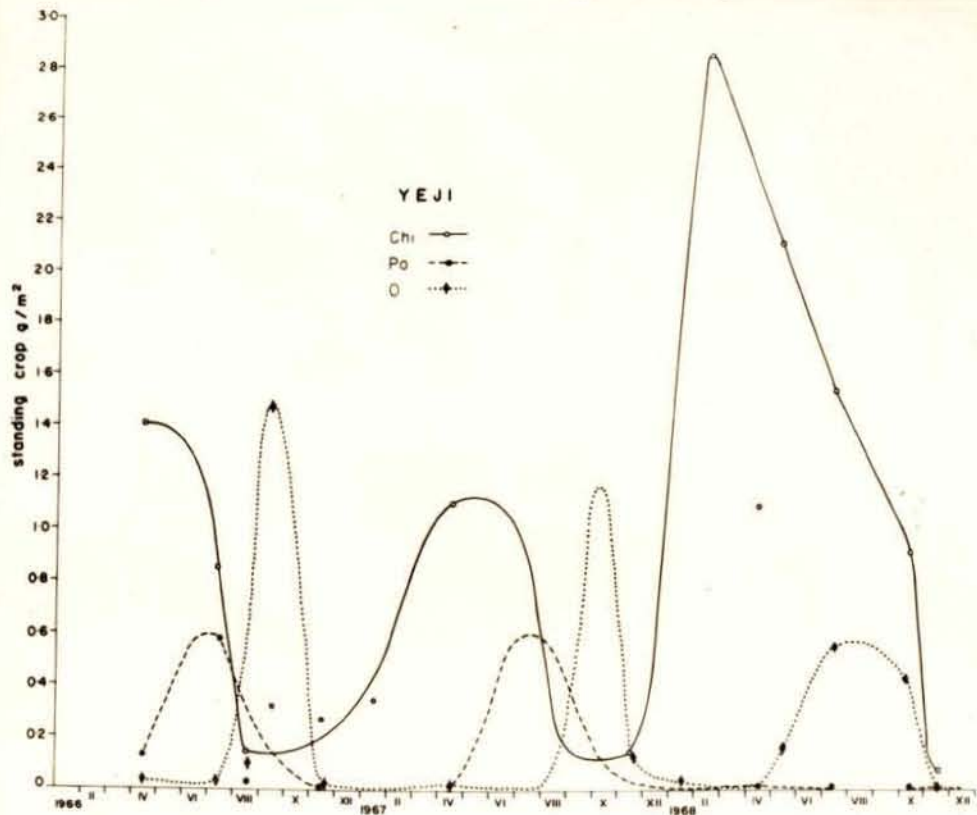


Fig.96. Standing crop of Chironomidae, Povilla and all other organisms at Yeji from 1966 to 1968. Symbols as in Fig.93.

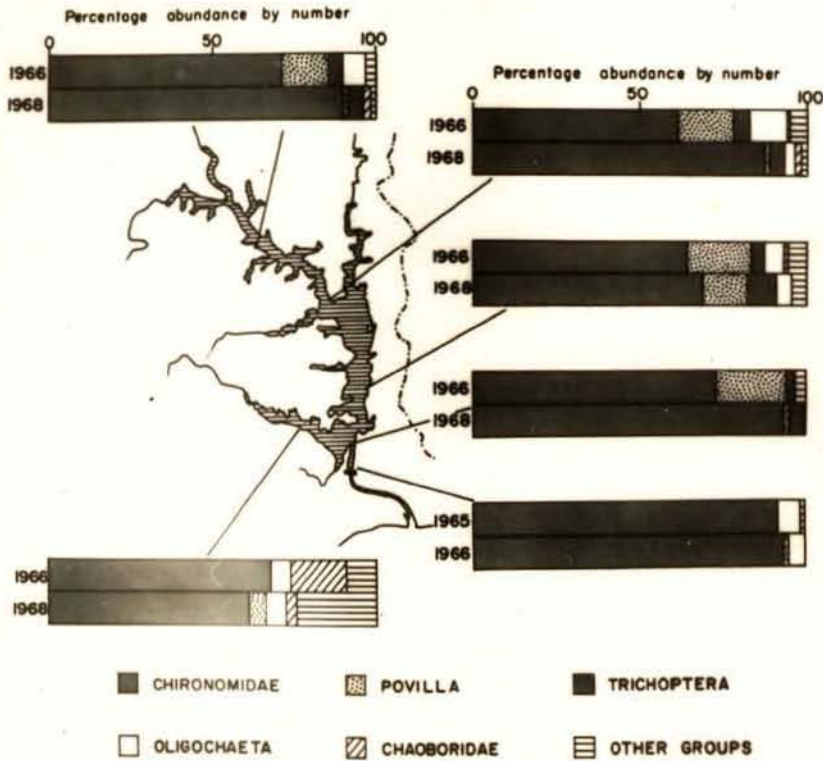


Fig. 97.

Percentage abundance by number of major groups of the bottom fauna in 1966 and 1968 (except at Akosombo, where the data are for 1965 and 1966).

CHIRONOMIDAE

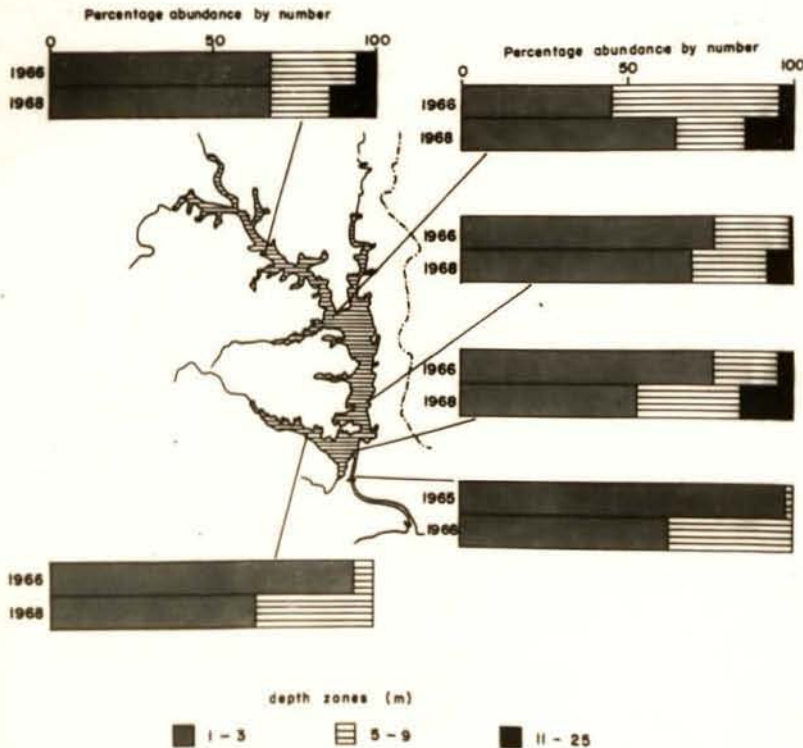


Fig. 98.

Percentage abundance by number of Chironomidae at three different depth zones in 1966 and 1968 (except at Akosombo where the data are for 1965 and 1966).

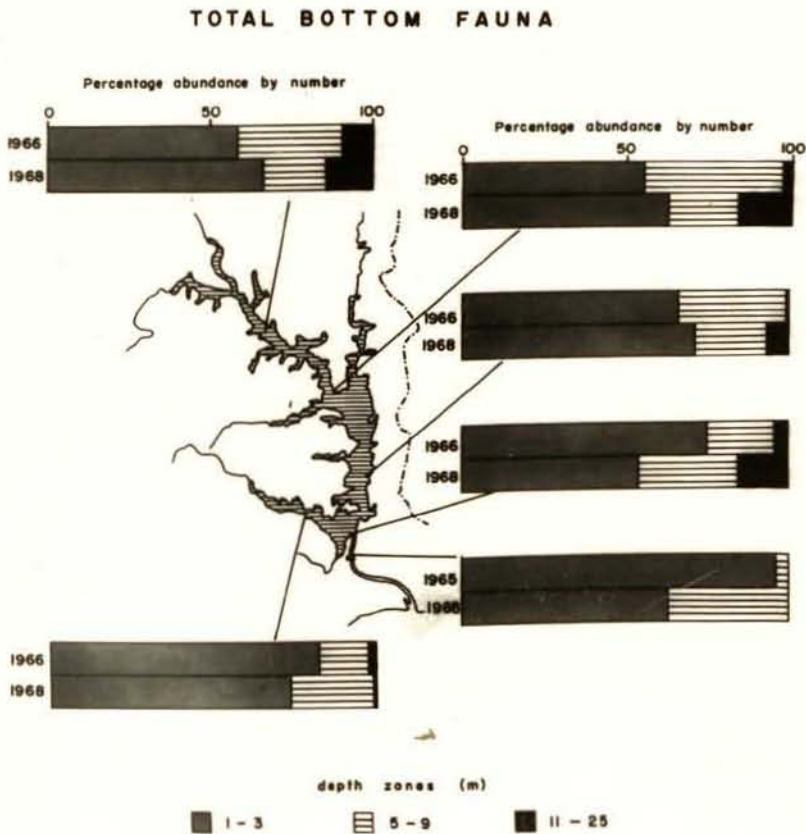


Fig.99. Percentage abundance by number of the total bottom fauna at three different depth zones in 1966 and 1968 (except at Akosombo, where the data are for 1965 and 1966).

DODI - PROFUNDAL

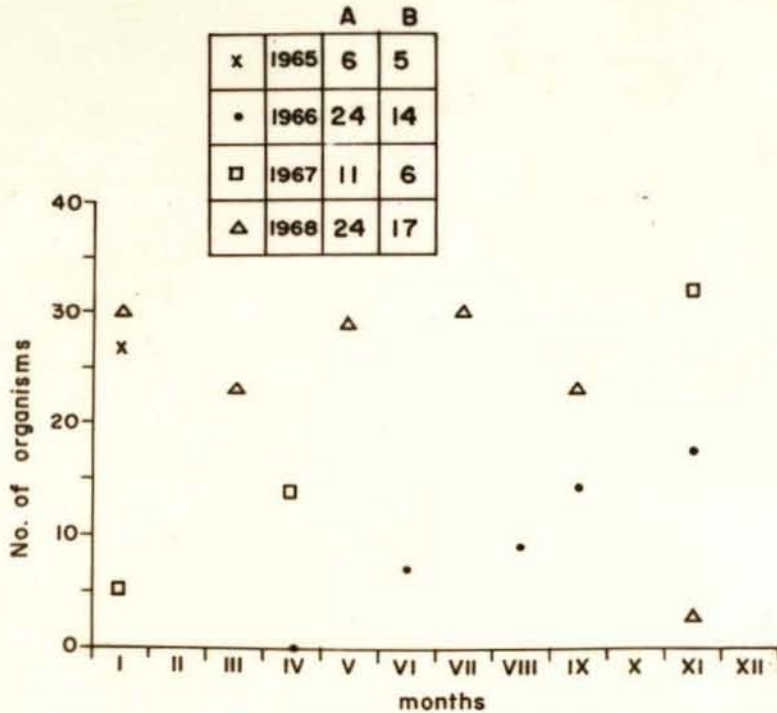


Fig.100.

Absolute numbers of bottom organisms collected in profundal zone (11 to 25m depth) at Dodi from 1965 to 1968.

A = number of samples;
B = number of samples containing organisms.

KPANDU - PROFUNDAL

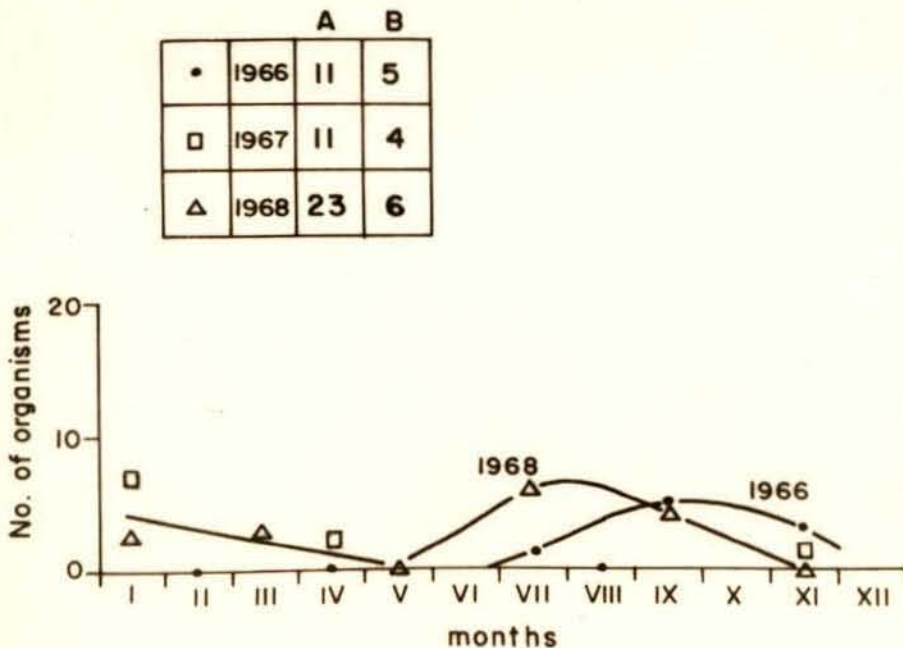


Fig.101.

Absolute numbers of bottom organisms collected in profundal zone at Kpandu from 1966 to 1968. Symbols as in Fig.100.

KETE KRACHI - PROFUNDAL

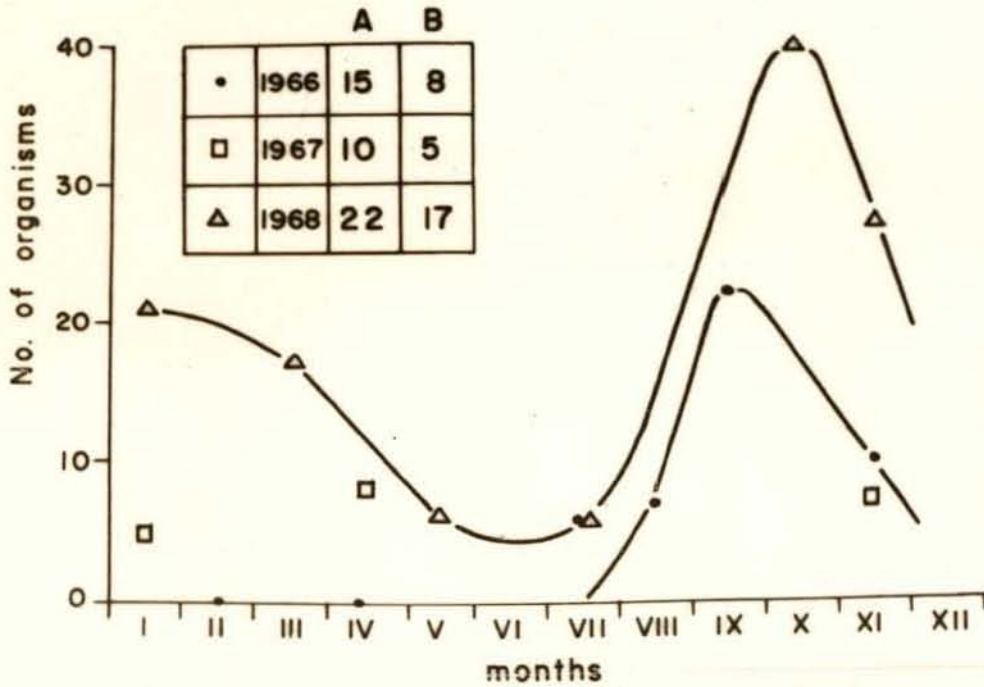


Fig.102.

Absolute numbers of bottom organisms collected in profundal zone at Kete Krachi from 1966 to 1968. Symbols as in Fig.100

YEJI - PROFUNDAL

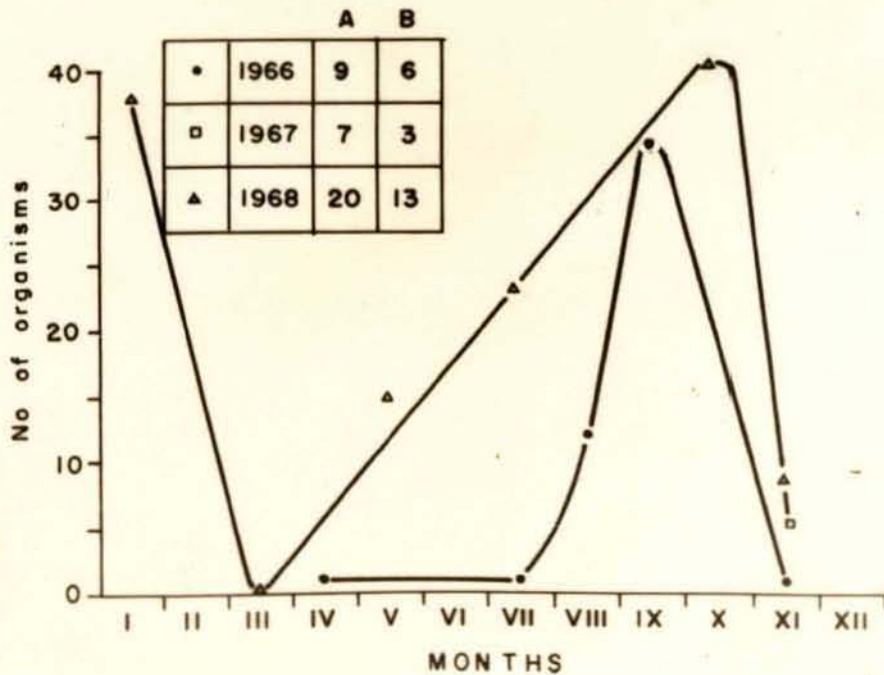


Fig.103.

Absolute numbers of bottom organisms collected in profundal zone at Yeji from 1966 to 1968. Symbols as in Fig.100.

Fig.104.

		A	B
x	1965	0	0
•	1966	7	2
□	1967	8	2
△	1968	19	3

AMPEM -
PROFUNDAL

Absolute numbers of bottom organisms collected in profundal at Ampem from 1965 to 1968. Symbols as in Fig.100.

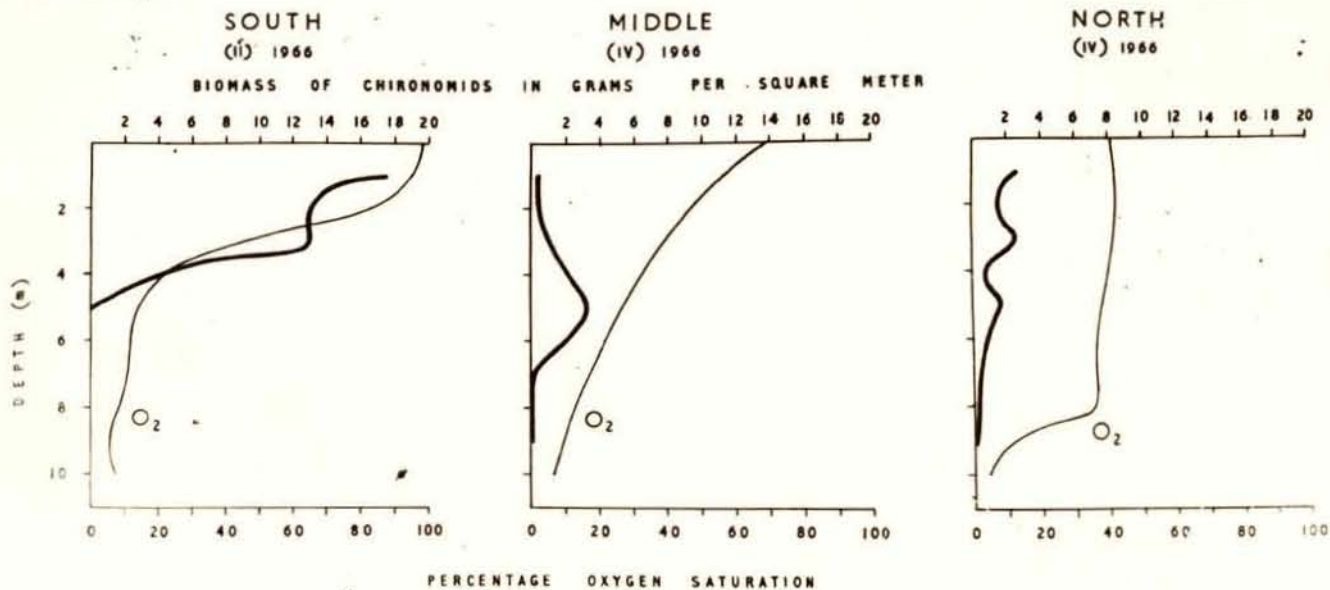
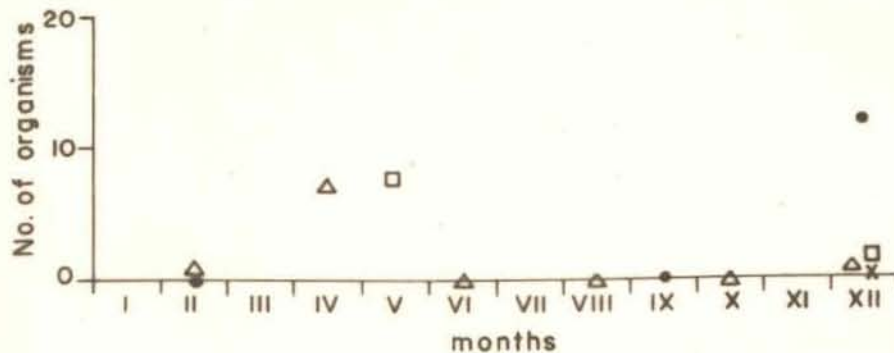


Fig.105. Depth distribution of chironomids at various stations in 1966, in relation to the oxygen concentration of water at the bottom.

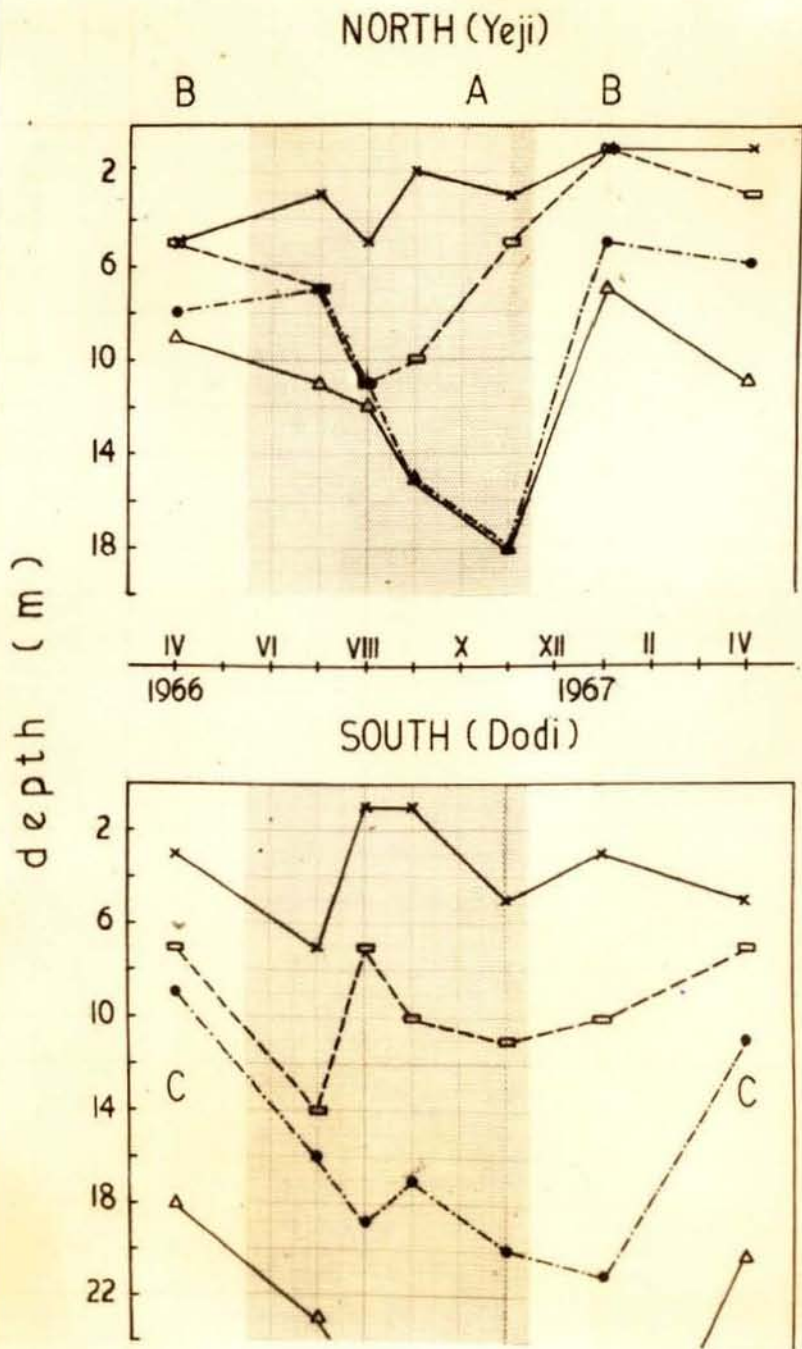


Fig.106. Depth distribution of bottom fauna. ×——× 50% of the total standing crop; □---□ 90% of the total standing crop; ●---● maximum depth distribution of the bottom fauna; Δ---Δ isobar of 30% saturation of oxygen. Shaded areas indicate the months during which the water level was rising in the Volta Lake.

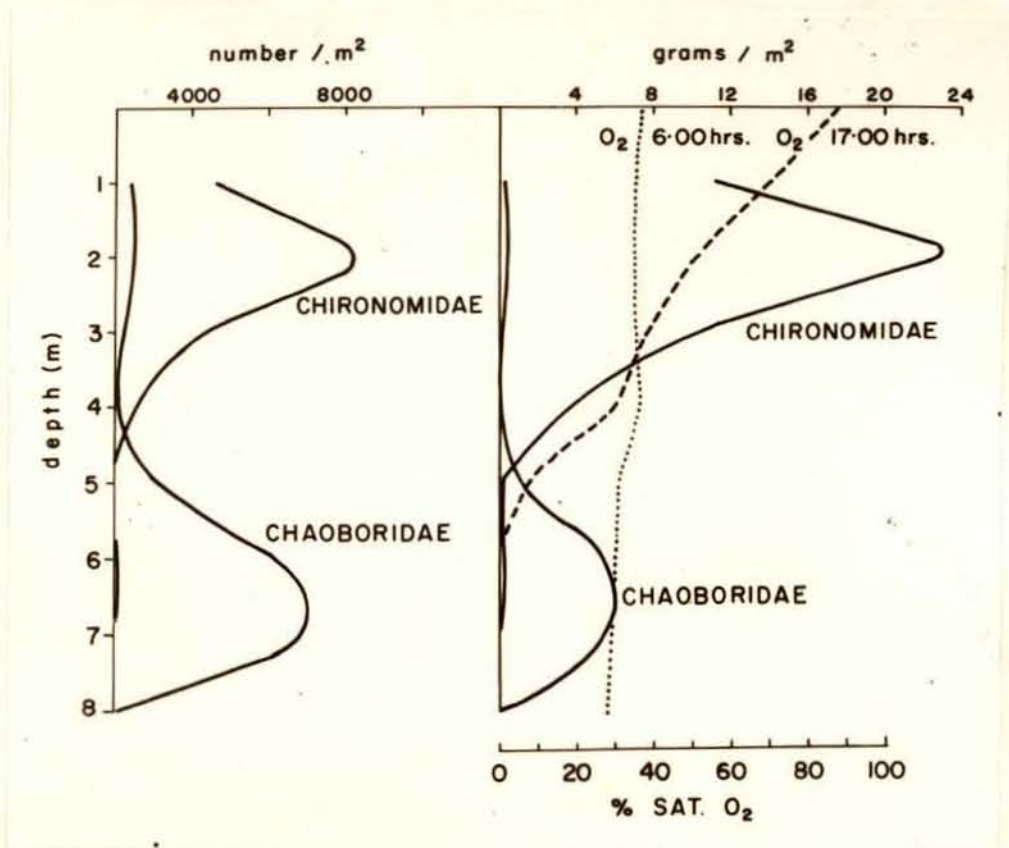


Fig.107. Depth distribution of chironomid and chaoborid larvae in relation to the oxygen concentration.

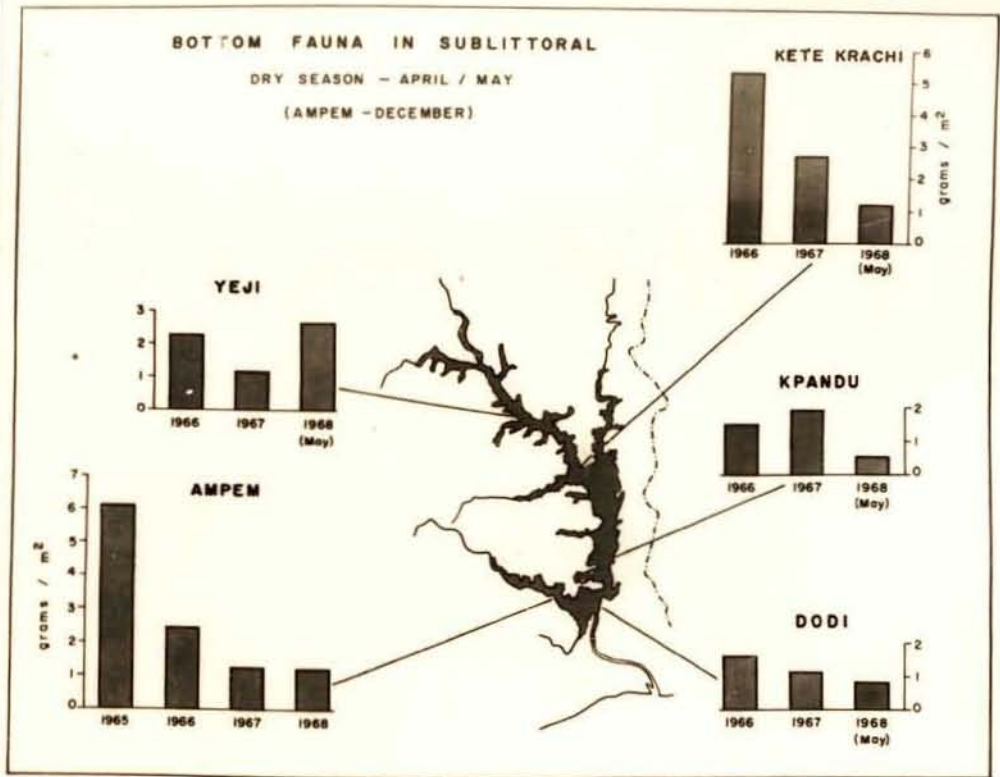


Fig.108. Changes in the standing crop of the bottom fauna in sublittoral (1-9m depth) during the dry season.

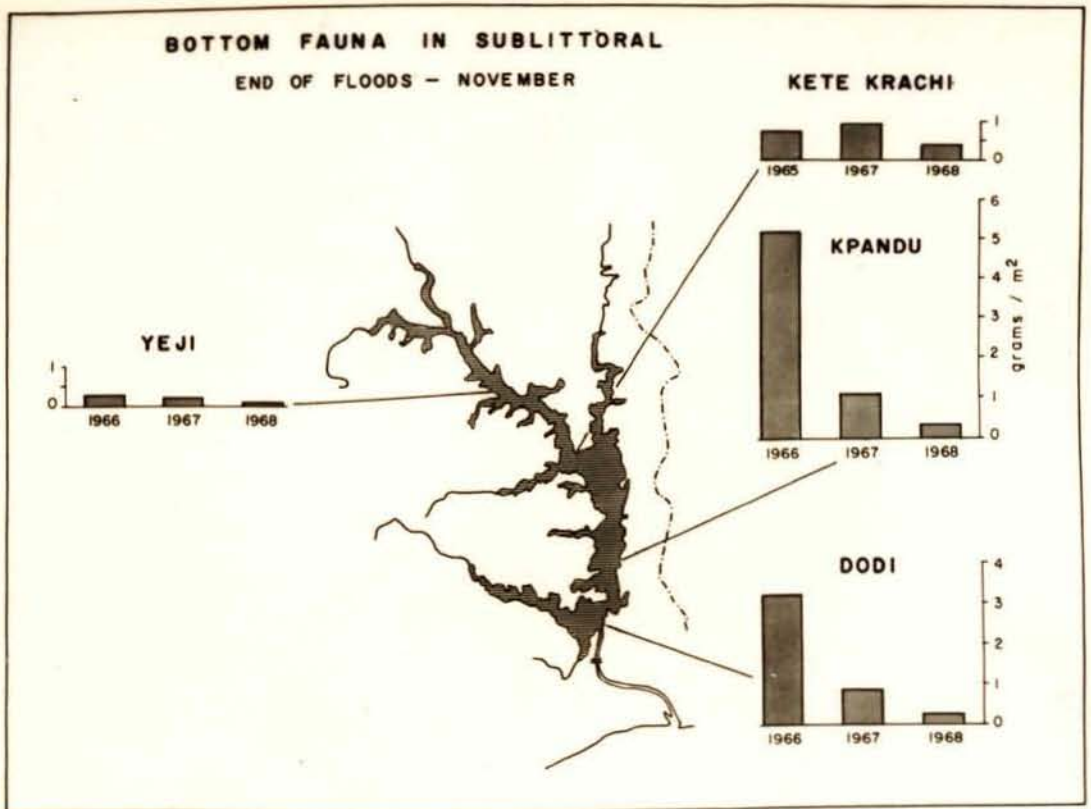


Fig. 109. Changes in the standing crop of the bottom fauna in sublittoral (1-9m depth) at the end of floods.

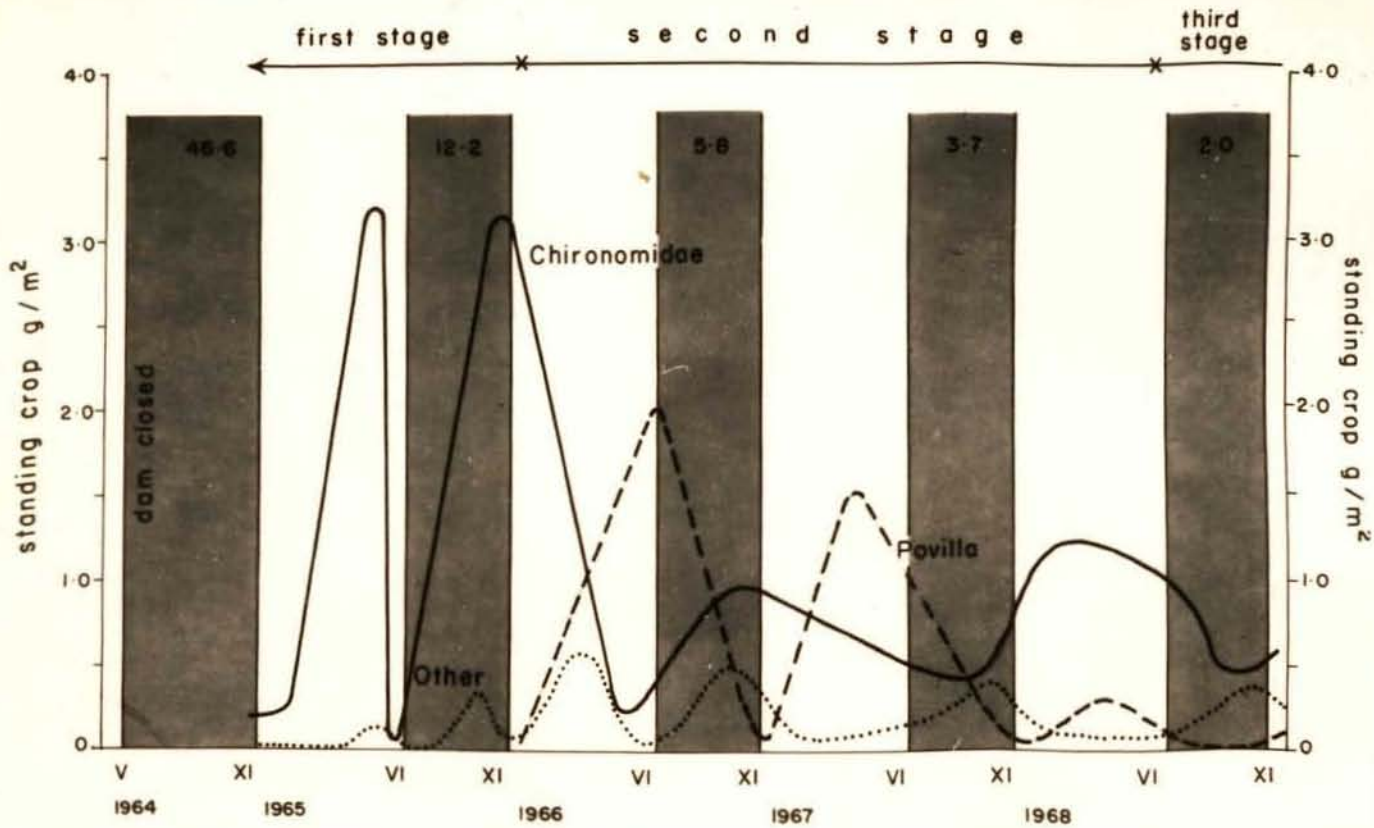


Fig.110. The development of the bottom fauna in the Volta Lake during its first five years. Shaded areas indicate the seasons with rising lake water level, figures show the rise in meters for flood period.

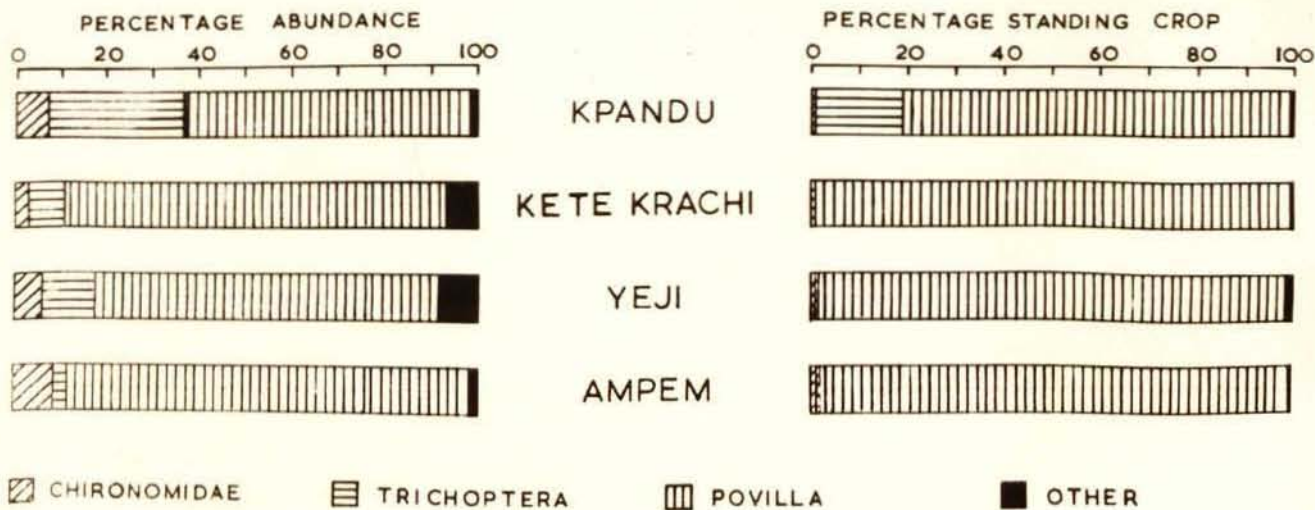


Fig.111. Periphytic invertebrates of flooded trees in May 1969.

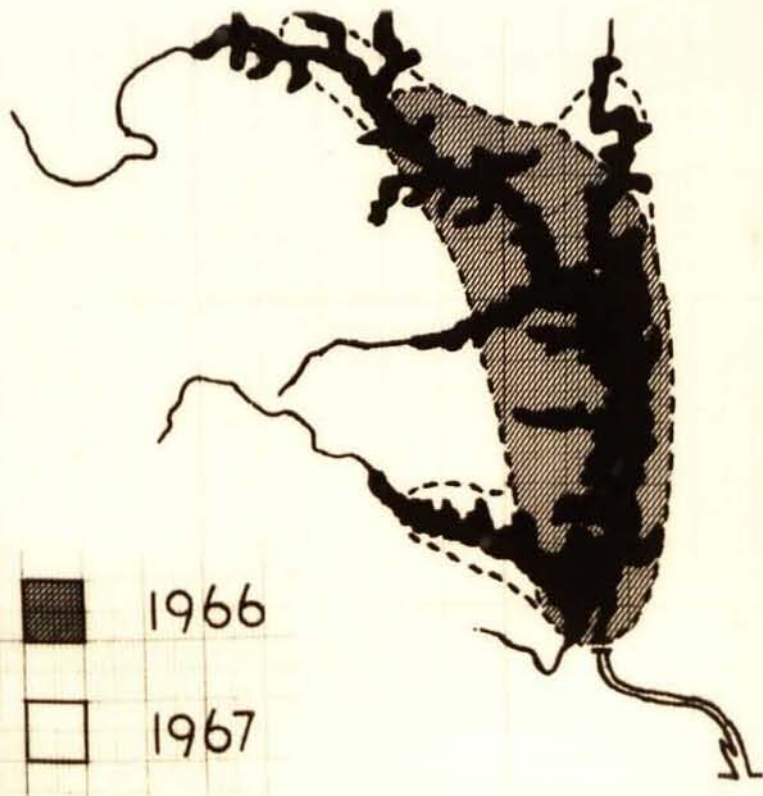


Fig.112. Establishment of Povilla in Volta Lake in 1966 and 1967.

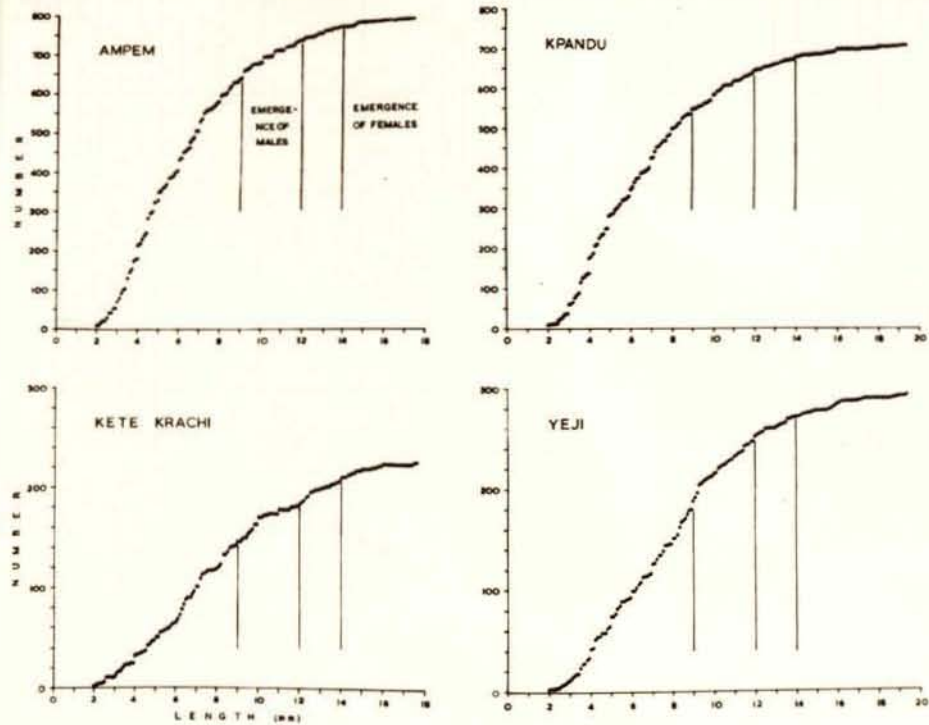


Fig.113.

Cumulative number of Povilla nymphs collected from flooded trees at various stations in May 1969.

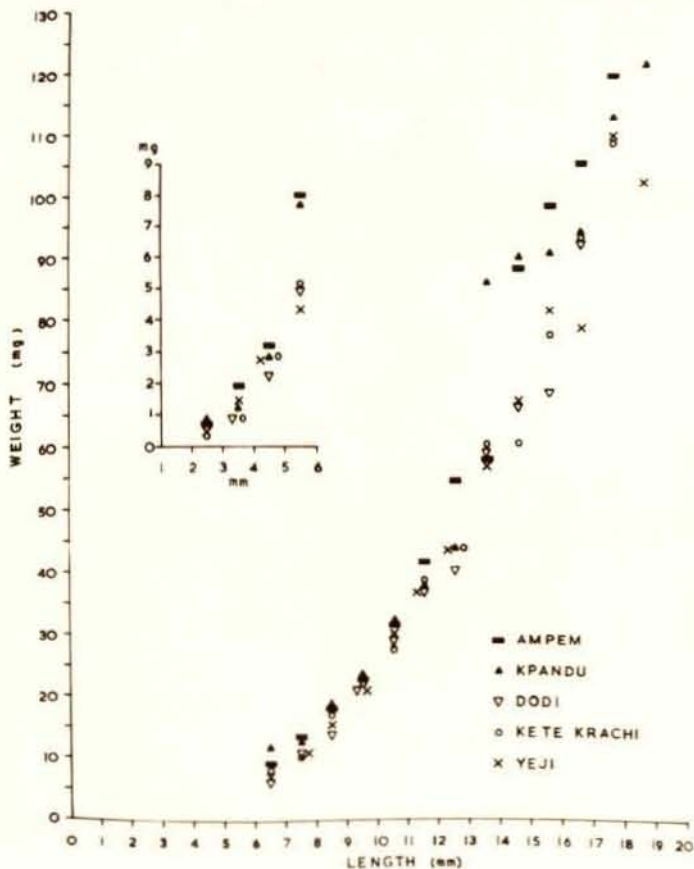


Fig.114.

Length-weight relationship of five populations of Povilla nymphs collected from flooded trees at various stations in May 1969.

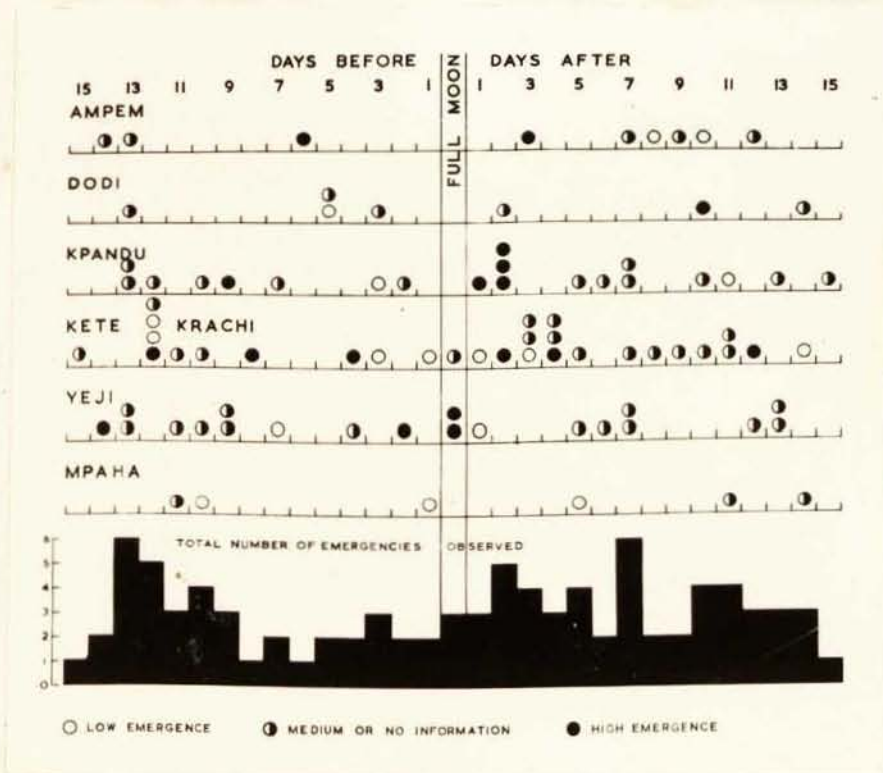
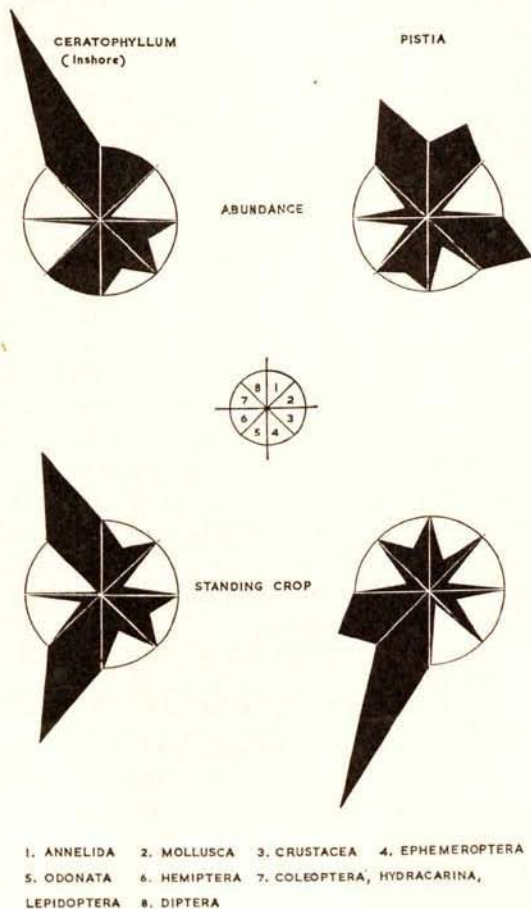
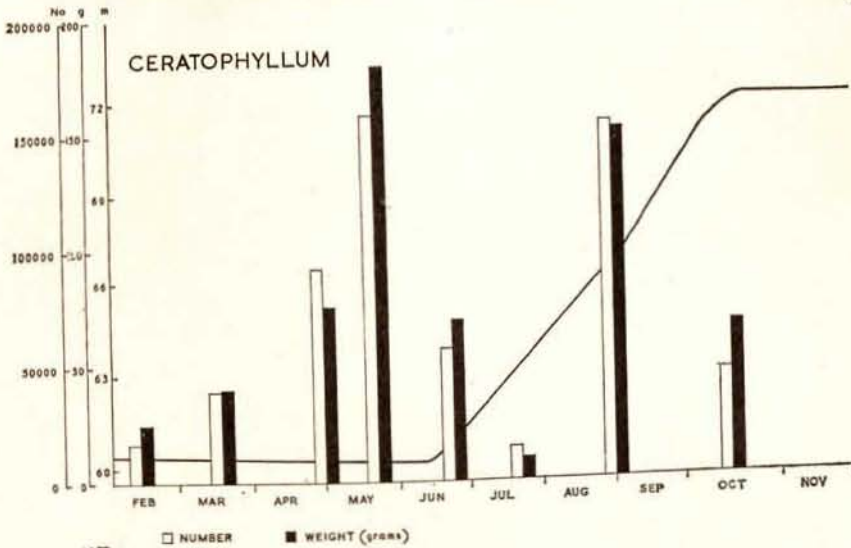


Fig.115. Emergence of Povilla for individual stations, and for the total Volta Lake, 1966 - 1968.



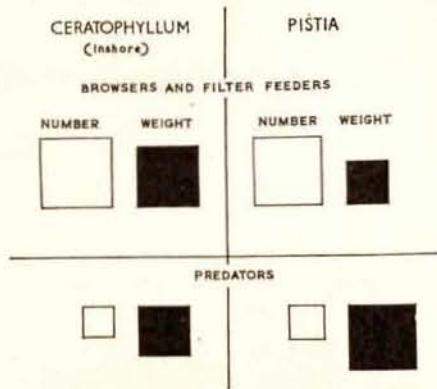
116.

Fig. 4 Abundance and standing crop (biomass) of invertebrates on inshore *Ceratophyllum* and *Pistia* expressed as percentages by number and by weight for the whole observation period. Radius of circles represents 15 per cent of the total animal population.



117

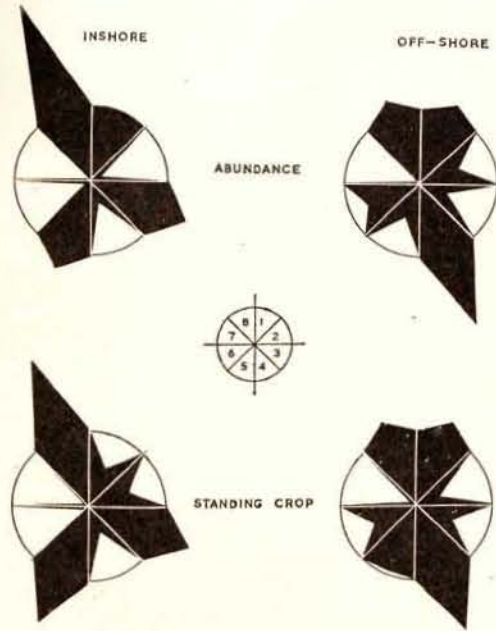
Fig. 117 Changes in population of aquatic invertebrates on the inshore *Ceratophyllum*, expressed as number and weight of animals per 1000 g dry weight of the plants. The curve in this and subsequent figures shows the rise in water level.



118.

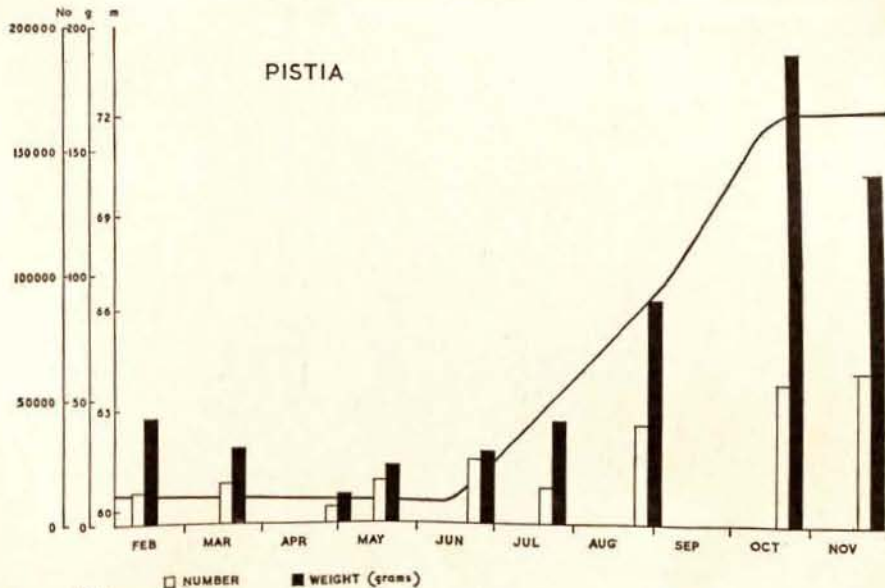
Fig. 118 Structure of invertebrate populations of inshore *Ceratophyllum* and *Pistia* according to their feeding habits. Browsers and filter-feeders: Annelida, Mollusca, Crustacea, Ephemeroptera, coleopteran adults (Elminthinae, Hydrophilidae), Hemiptera (Corixidae), Culicinae, Chironomidae, Ceratopogonidae, Stratiomyidae. Predators: Hydracarina, Odonata, Hemiptera (other than Corixidae), coleopteran larvae, coleopteran adults (Dytiscidae).

CERATOPHYLLUM



- 1. ANNELIDA 2. MOLLUSCA 3. CRUSTACEA 4. EPHEMEROPTERA
- 5. ODONATA 6. HEMIPTERA 7. COLEOPTERA, HYDRACARINA, LEPIDOPTERA
- 8. DIPTERA

119.
 Fig. 4 Abundance and standing crop (biomass) of invertebrates of inshore and off-shore *Ceratophyllum*, expressed as percentages by number and by weight for February, March and April. Radius of circles represents 15 per cent of the three months population.



120.
 Fig. 5 Changes in population of aquatic invertebrates living on *Pistia*, expressed as number and weight of animals per 1000 g dry weight of the plants.

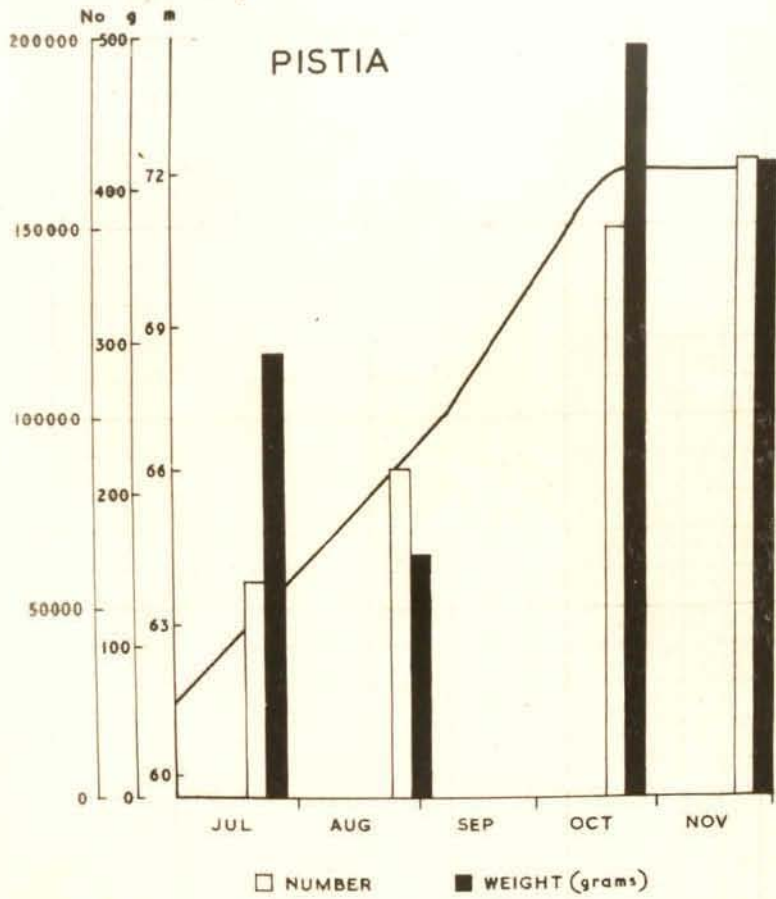
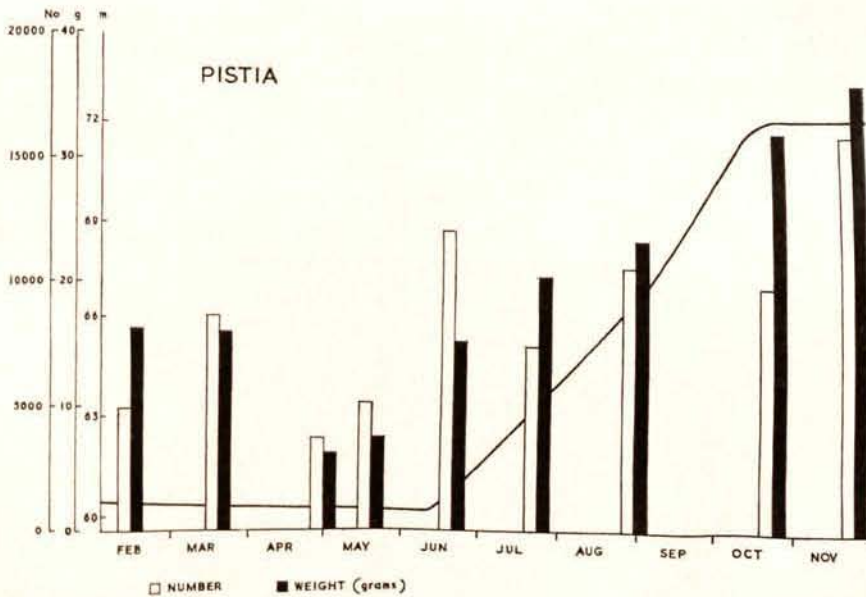


Fig.121.

Changes in population of aquatic invertebrates living on *Pistia*, expressed as number and weight of animals per 1000 g dry weight of the plants' roots.



122.

Fig. 122. Changes in population of aquatic invertebrates living on *Pistia*, expressed as number and weight of animals per 1 m².

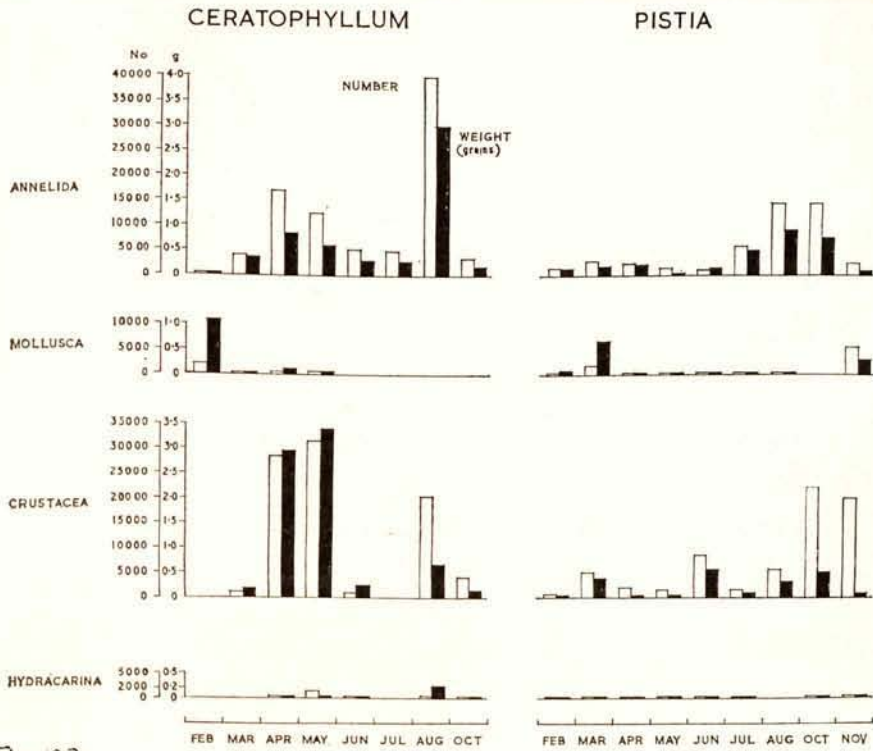
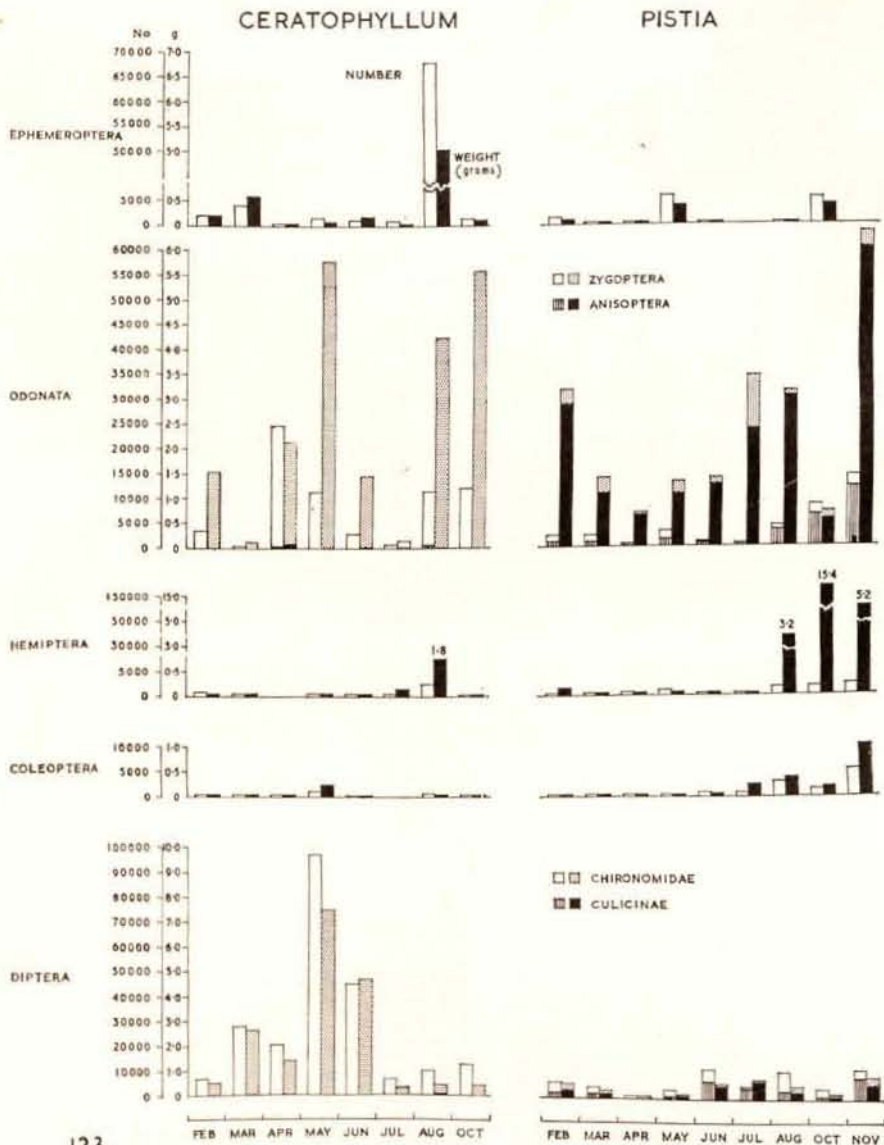


Fig. 123.



123. Fig. 123. Changes in abundance and standing crop of individual taxa of aquatic invertebrates on *Pistia* and on inshore *Ceratophyllum*.

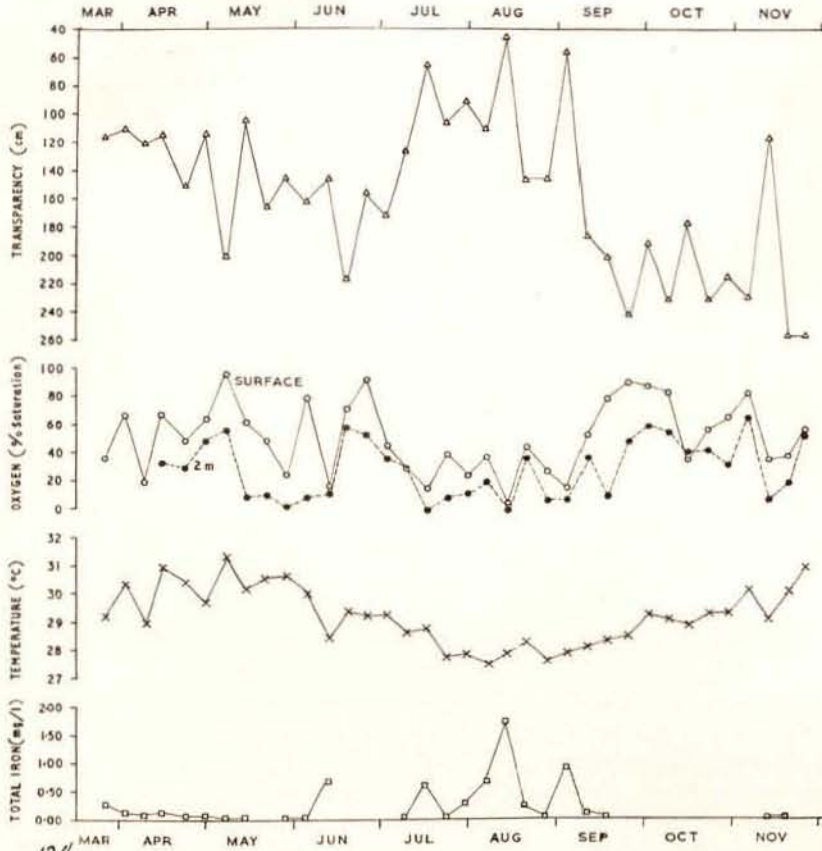


Fig. 124 Variation in transparency, oxygen content, temperature and total iron in the Gorge region of the Volta Lake.

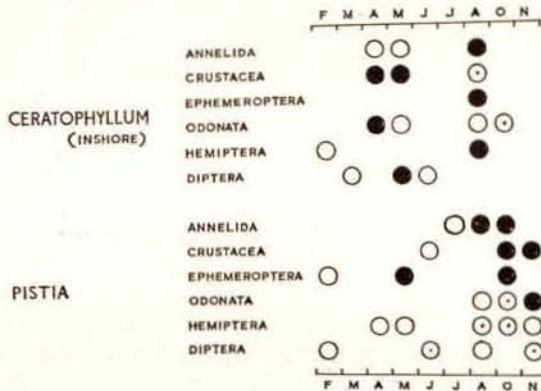


Fig. 125 Peak period of abundance of the most common invertebrate groups on *Ceratophyllum* and on *Pistia*, calculated per 1000 g dry plant matter. For each group the total for all months in which observations were made is taken as 100 and the values for individual months expressed as percentages of this total. The peak periods of abundance (30% or more) are indicated by ●, 29.9–20 by ○, 19.9–10 by ○; less than 10% not shown.

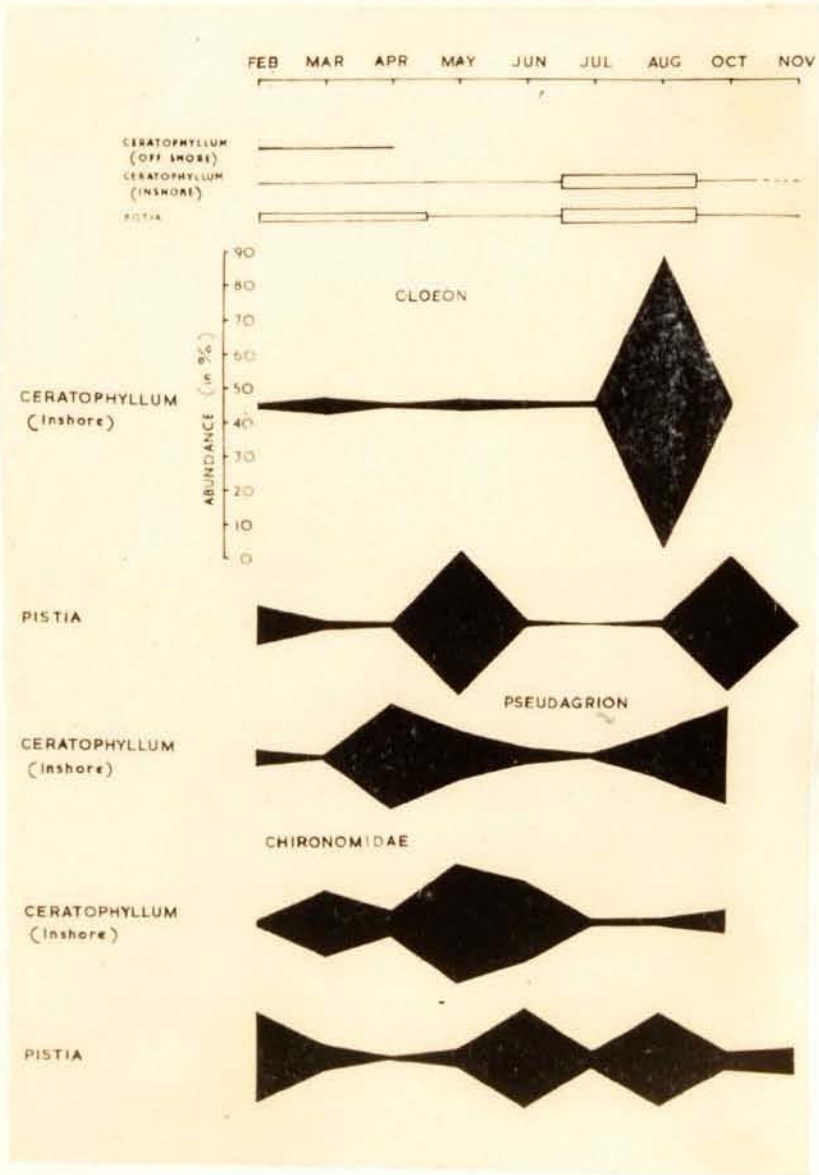


Fig.126. Variation in abundance of Cloeon, Pseudagrion and Chironomidae on inshore Ceratophyllum and Pistia.

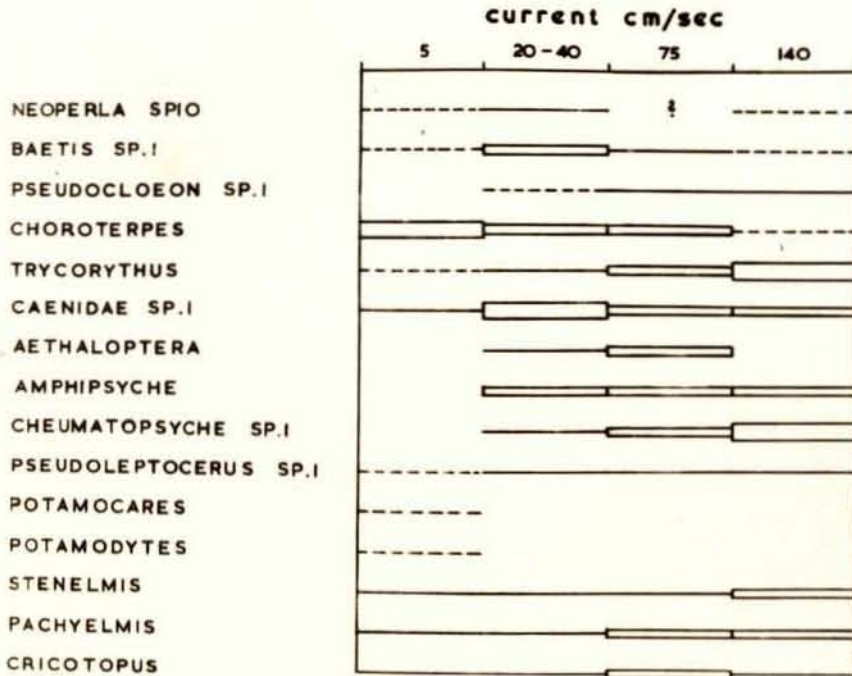


Fig.127.

Tolerance and preference for different current velocities of some bottom living organisms from the Black Volta River.

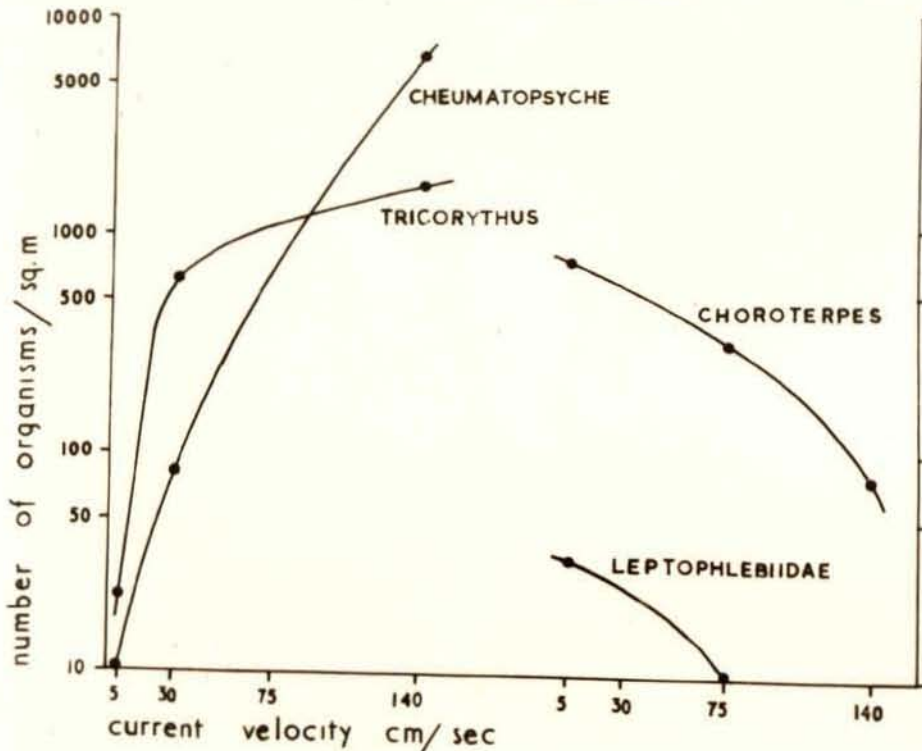


Fig.128.

Correlation between the current velocity and abundance of some bottom living organisms of the Black Volta River rapids.

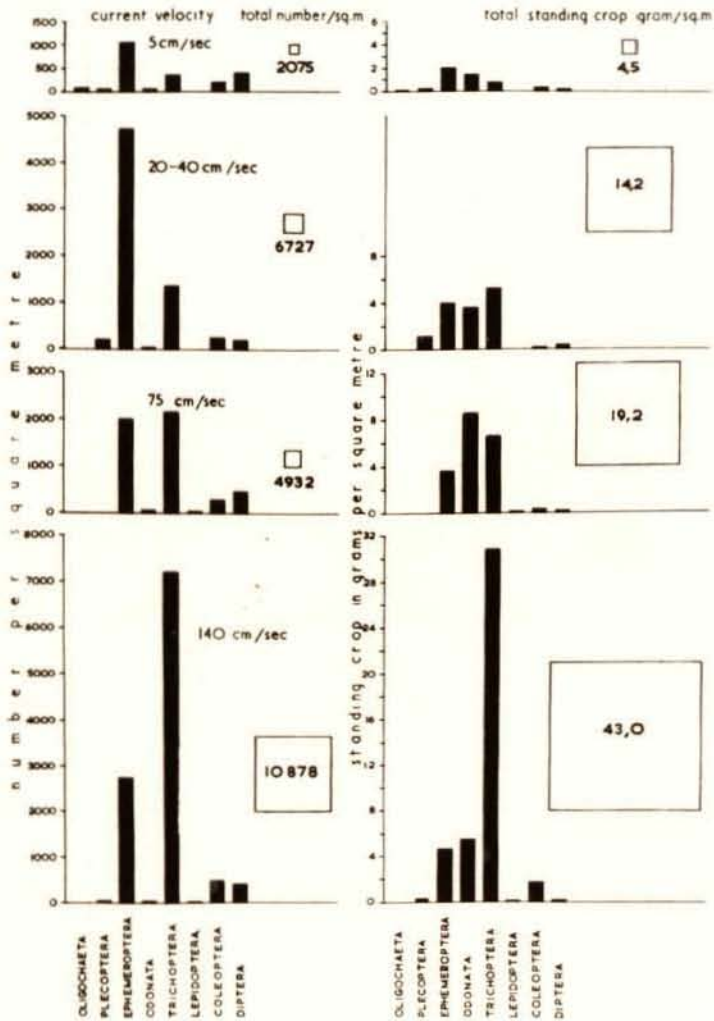


Fig.129. Comparison of abundance and standing crop of bottom fauna at different rates of current flow in the Black Volta River rapids.



Fig.130. Mouth parts of Cricotopus sp.2 larva
(Chironomidae)



Fig.131. Mouth parts of Chironomini sp.1 larva
(Chironomidae)

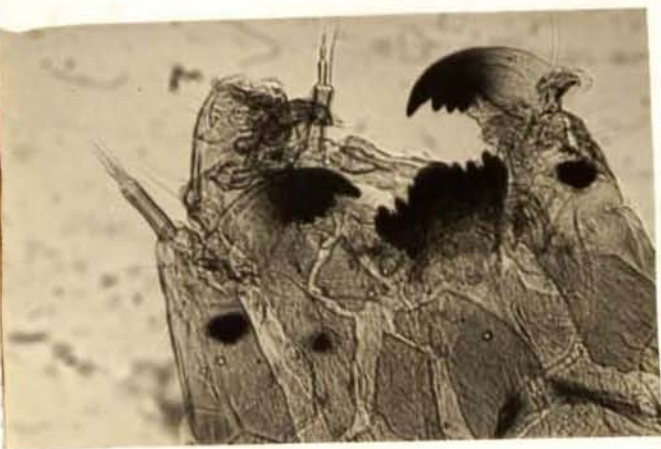


Fig.132. Mouth parts of Chironomini sp.2 larva
(Chironomidae)



Fig.133. Mouth parts of Stictochironomus sp.1
larva (Chironomidae)

FOOD OF FISH (1965/66)

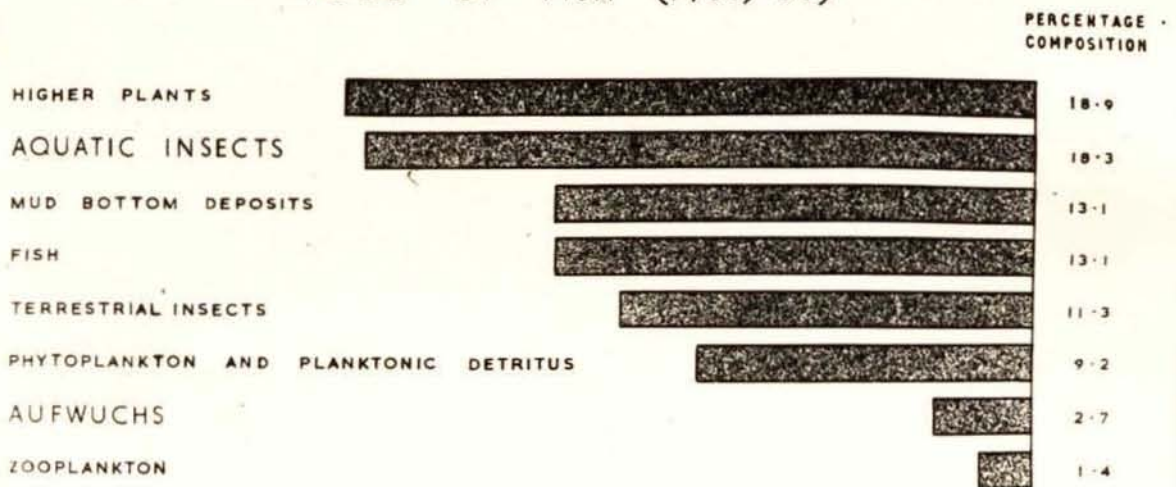


Fig.134. Food of commercial fish species of the Volta Lake in 1965 and 1966. Calculated for those fish species which on several occasions constituted 10% or more of the total catch by number.

Tables 1 to 47

Table 1

University of Ghana <http://ugspace.ug.edu.gh>

Sampling frequency at various stations of the Volta Lake from 1965 to 1968.

1967 to January 1968.

Station	Year	month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Akosombo	1965		+		+	+	+	+	+		+	+		
	1966		+		+		+		+					
Dodi	1965						+	+		+				+
	1966						+	+		+			+	
	1967		+				+						+	
	1968		+		+		+		+		+		+	
Kpandu	1966			+		+			+	+	+		+	
	1967		+			+							+	
	1968		+		+		+		+		+		+	
Kete Krachi	1966			+		+			+	+	+		+	
	1967		+			+							+	
	1968		+		+		+		+			+	+	
Yeji	1966					+			+	+	+		+	
	1967		+			+							+	
	1968		+			+	+		+			+	+	
Ampem	1965													+
	1966			+							+			+
	1967						+							+
	1968		+			+		+		+		+		+

Table 2
University of Ghana <http://ugspace.ug.edu.gh>

Some meteorological data for the Volta Lake, based on observations from December 1967 to January 1969.

Stations	Time	TEMPERATURE(°C)			HUMIDITY(% sat.)			BAR PRESSURE			Wind Speed		No. of obs.	No of months observ.
		Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean	Max.	Mean		
							(mm of Hg)			(cm/sec)				
ANPES	07.00	24.2	31.7	28.1	54	74	63.6	29.5	29.8	29.6	8	3.3	9	6
	21.00	26.0	32.2	28.7	52	70	60.9	29.5	29.8	29.6	40	11.1	8	6
DODI	07.00	26.1	31.7	28.8	61	65	63	29.4	29.6	29.5	12	6.7	3	3
	21.00	26.1	31.7	28.6	60	73	64.5	29.4	29.8	29.6	12	9.6	3	3
KPANDU	07.00	25.0	31.9	28.6	63	73	67.3	29.5	29.9	29.6	15	7.6	20	9
	21.00	24.2	32.2	29.2	57	74	64.6	29.3	29.9	29.6	20	11.4	20	9
KETE KRACH KRACHI	07.00	25.5	31.7	29.4	60	73	66.0	29.3	29.8	29.6	13	7.7	18	9
	21.00	26.4	32.8	30.1	48	70	61.8	29.2	29.7	29.5	25	10.3	18	9
YEJI	07.00	23.8	31.7	28.3	50	74	67.3	29.5	29.8	29.6	13	7.6	18	8
	21.00	24.0	32.5	28.9	40	74	58.9	29.2	29.7	29.5	26	10.1	18	8
NPAHA	07.00	25.0	33.3	28.1	58	75	67.4	29.4	29.8	29.6	6	3.8	6	5
	21.00	25.0	37.2	30.0	52	78	61.4	29.4	29.6	29.5	8	3.8	6	5

Date	Depth (m) Time	pH									alkalinity (mg CaCO ₃ /l)								
		S*	1	3	5	7	9	11	14	17	S	1	3	5	7	9	11	14	17
22.1.1965	11.00-11.30		6.9	6.8	6.8	6.7		6.7											
17.3.1965	09.30-15.30	6.8	6.8	6.4	6.6			6.6		6.5									
20.3.1965	10.00-11.30		6.0	6.6	6.6		6.6												
27.4.1965	11.00-16.30		7.1	6.9	6.6			6.6		6.6									
22.5.1965	10.00-10.45	6.6	6.5	6.5	6.5	6.5													
25.6.1965	10.15-11.30	6.9	6.8	6.6	6.6	6.6													
24.7.1965	09.30-10.15	6.7	6.7	6.7	6.7														
2.9.1965	08.30-09.50	6.6	6.6	6.6	6.6					45.0	46.0	44.0	51.0						
21.10.1965	09.20-10.15	7.0	6.9	6.6	6.5	6.4				41.0	40.0	35.0	40.0	41.0					
27.11.1965	09.20-10.30	7.0	6.9	6.7	6.7	6.7				37.0	37.0	40.0	40.0	42.0					
29.1.1966	09.20-10.05	6.9	6.9	6.8	6.8	6.8				37.0	37.0	38.0	38.0	42.0					
17.3.1966	08.45-09.10	6.7	6.7	6.6	6.5	6.5	6.5			45.0	45.0	45.0	48.0	48.0	48.0				
19.5.1966	09.00-09.30	7.0	6.9	6.8	6.8					45.0	45.0	44.0	42.0						
12.7.1966	08.30-08.45	6.9	6.9	6.9	6.9					43.0	44.0	44.0	43.0						

*S = SURFACE WATER.

Table 4

pH and alkalinity of bed, December 1965 - November 1968.

Date	Depth(m) Time	pH										alkalinity (mg CaCO ₃ /l)												
		8	1	3	5	7	9	11	14	17	20	25	8	1	3	5	7	9	11	14	17	20	25	
10.12.65	17.00-18.00	7.3	7.3	7.3	7.3	7.3	7.3	7.3							50.0	50.0	50.0	50.0	50.0	50.0	50.0			
21.4.66	17.15-17.50	7.5	7.1	7.3	7.2	7.1	7.1	7.2							42.0	38.0	40.0	40.0	40.0	42.0	38.0			
29.6.66	08.00-08.45	6.9	7.0		7.0			7.1		7.0					44.0	44.0		43.0		45.0	45.0			
11.8.66	11.00-11.40	7.1	7.0			7.0		6.6		6.8					43.0	43.0		43.0		43.0	43.0			
8. 9.66	15.00-15.30	7.1	7.1		7.1			7.0			7.0				42.0	44.0		44.0		46.0	46.0			
10.11.66	08.30-11.30	7.2	7.3	7.1	7.1	7.3		7.1	7.1	7.0	6.7				40.0	43.0	39.0	42.0	42.0	43.0	41.0	41.0	41.0	43.0
10.1.67	08.15-09.35	7.2	7.2	7.2	7.2	7.2		7.2	7.1	7.1	7.2				42.0	42.0	42.0	42.0	42.0		42.0	42.0	42.0	42.0
5. 4.67	08.30-09.10	7.2		7.1	7.3	7.1		7.1		7.2	7.3				48.0		43.0	46.0		46.0		45.0	44.0	
9.11.67	10.45-12.35	7.4	7.2	7.2	7.3	7.3		7.5	7.1	7.2		7.2			43.0	43.0	53.0	42.0	42.0		43.0	40.0	38.0	44.0
10.1.68	09.25-09.50														43.0	46.0		46.0		48.0				46.0
12.3.68	09.25-10.20	7.2	7.2	7.2	7.3	7.2	7.2		7.1		7.0				41.0	43.0	43.0	46.0	47.0	45.0		45.0		46.0
15.5.68	08.45-10.05	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.2	7.2	7.1				44.0	42.0	43.0	43.0	44.0	45.0	47.0	43.0	47.0	43.0
11.7.68	09.00-10.30	7.2	7.2	7.2	7.2	7.2	7.2	7.0	7.2		7.1				43.0	43.0	42.0	42.0	40.0	42.0	41.0	41.0		42.0
16.9.68	14.00-16.45	7.2	7.4	7.3	7.4	7.2	7.3	7.2							41.0	38.0	39.0	38.0	40.0	40.0	41.0			
19.11.68	11.50-13.30	7.5	7.1	7.5	7.5	7.5	7.3	7.5	7.3	7.3					44.0	40.0	42.0	41.0	42.0	43.0	46.0	43.0	43.0	

Table 7
University of Ghana <http://ugspace.ug.edu.gh>

pH and alkalinity at Yeji, April 1966 - November 1968.

Date	Depth (m) Time	pH										alkalinity (mg CaCO ₃ /l)													
		8	1	33	5	7	9	11	14	17	20	25	8	1	3	5	7	9	11	14	17	20	25		
25.4.66	08.55-10.00	6.9	6.9	6.9	7.1	7.1	7.0	6.9							44.0	43.0	44.0	45.0	45.0	45.0	48.0				
3.7.66	17.15-17.30	7.1	6.7		7.0		7.0								37.0	41.0		38.0			33.0				
6.8.66	10.50-11.15	6.7	6.9		6.7		6.7	6.6							40.0	38.0					41.0				
16.9.66	06.40-07.40	6.9	6.9	6.9	6.9			6.9	6.9						35.0	35.0	28.0	36.0			38.0	38.0			
15.11.66	16.05-17.28	6.7	6.7	6.5	6.5	6.6		6.5	6.7		6.6				38.0	38.0	34.0	38.0	36.0		32.0	38.0		34.0	
16.1.67	11.15-12.35	7.1	7.1	7.1	7.0	6.9		6.8		6.7					42.0	38.0	42.0	39.0	43.0		40.0		43.0		
11.4.67	09.30-18.00	7.3	7.3	7.2	7.1	7.2	7.0			6.8					39.0	41.0	39.0	40.0	41.0	42.0			56.0		
14.11.67	14.40-15.45	6.9	6.9	7.0	6.9	6.8		6.8	6.9		7.0				38.0	42.0	36.0	38.0	39.0		38.0	38.0		36.0	
17.1.68	09.15-10.15	7.0	7.1	7.1											38.0	40.0	36.0	32.0		38.0		35.0		38.0	
20.4.68	11.00-13.45	6.8	7.2	7.1	7.0	7.1	6.9	7.1	7.1	6.7					45.0	43.0	41.0	40.0	42.0	42.0	42.0	42.0	50.0		
21.5.68	11.00-16.50	7.2	7.1	7.1	7.1	7.0	7.1	7.1		6.7	6.7				38.0	38.0	39.0	41.0	41.0	39.0	41.0		40.0	40.0	
16.7.68	15.55-16.59	7.0	6.9	6.9	7.0	7.0	6.9	6.9	6.9	6.9					40.0	38.0	41.0	38.0	40.0	39.0	39.0	37.0	40.0		
19.10.68	08.20-16.15	6.9	6.7	6.9	6.6	6.8	7.0	6.9	6.9		7.1	6.9			34.0	33.0	34.0	27.0	35.0	37.0	35.0	40.0		38.0	35.0
25.11.68	12.00-13.55	6.9	7.0	6.9	6.7	6.7	6.7	6.6	6.8		6.9				38.0	41.0	41.0	37.0	34.0	35.0	33.0	37.0		37.0	

Table 8
University of Ghana <http://ugspace.ug.edu.gh>

pH and alkalinity at Ampem, December 1965 - December 1968.

Date	Depth (m) Time	pH										alkalinity (mg CaCO ₃ /l)																
		8	1	3	5	7	9	11	14	17	20	8	1	3	5	7	9	11	14	17	20							
7.12.65	17.00-17.20	6.9									50.0																	
10.2.66	12.00-13.30	7.3	7.3	7.3	6.7	6.7	6.5	6.1				48.0	48.0	49.0	55.0	55.0	49.0	75.0										
18.9.66	16.20-17.00	6.7	6.8	6.6	6.6			6.5				56.0	50.0	59.0	55.0			57.0										
6.12.66	07.20-08.10	6.9	6.8	6.9	6.7	7.0	6.7		6.1	6.6								54.0	54.0	53.0	53.0	51.0	54.0		52.0	58.0		
18.5.67	16.30-17.00	7.2	6.9	6.9	7.0	6.8	6.7		6.4									45.0	45.0	45.0	52.0	50.0	47.0		48.0			
20.12.67	10.55-12.30	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0									46.0	48.0	47.0	44.0	47.0	47.0	50.0	46.0			
21.2.68	16.30-17.45	7.1	7.4	7.0	7.2	7.0		7.3	7.2									51.0	55.0	45.0	49.0	52.0		46.0	59.0			
21.4.68	16.00-17.00	7.4	7.6	7.5	6.7		7.1	6.9	7.1	6.7								48.0	52.0	47.0	49.0		45.0	47.0	46.0	49.0		
20.6.68	14.45-16.25	7.2	8.4	7.2	6.9	6.8	6.8	7.0	6.2									50.0	50.0	46.0	50.0	47.0		50.0	51.0	74.0		
25.8.68	15.00-16.30	7.2	6.7	6.7	6.6	7.0	7.1	7.1	6.2									53.0	38.0	44.0	40.0	54.0	55.0	56.0	32.0	33.0		
25.10.68	09.15-15.00	7.5	7.1	7.4	7.3	6.8	7.0	6.9	6.6	6.4								54.0	55.0	51.0	51.0	55.0	49.0	55.0	55.0	56.0		
20.12.68	14.20-15.50	7.6	7.5	7.1	7.1	6.9	6.7	7.0	6.7	6.5	6.5								50.0	49.0	47.0	49.0	48.0	48.0	50.0	50.0	49.0	51.0

Table 9

Occurrence (absolute numbers) of Allonias in bottom samples at various stations in 1965-1968 together with its range of depth distribution.

month Station	1965		1966								1967												1968												Total
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII									
A	1	2	X	X	X	X	0	X	38	X	X	4	X	17	X	18	X	8	X	13	X	2	X	5	X	25	133								
D	5	X	0	0	X	2	3	3	X	3	1	X	7	X	0	X	0	X	1	X	2	X	5	X	1	X	33								
KP	X	17	6	X	2	0	9	7	X	5	4	X	1	X	1	X	4	X	0	X	0	X	0	X	6	X	62								
KK	X	2	17	X	1	1	11	6	X	5	0	X	3	X	0	X	11	X	1	X	1	X	X	0	6	X	65								
Y	X	X	3	X	4	3	12	8	X	22	4	X	5	X	3	X	X	4	1	X	2	X	X	1	2	X	119								
Total	6	21	26	0	7	6	35	24	38	35	9	4	61	17	4	18	15	12	3	13	5	2	5	6	15	25	412								

The range of depth distribution (m)

A	2	2-3	X	X	X	X	0	X	1.5- 6	X	X	0.5- 6	X	1-7	X	1-2	X	1-11	X	1-5	X	1	X	1-3	X	1-9	
D	1-9	X	0	0	X	1-10	1-15	3-7	5	X	1-21	5	X	3-17	X	0	X	0	X	5	X	5-11	X	3-15	X	9	X
KP	X	1-7	1-3	X	1-3	0	1-6	3-15	X	0.5- 10	3-4	X	7	X	1	X	1-15	X	0	X	0	X	0	X	1-5	X	
KK	X	1-7	1-7	X	9	1	1-3	1.5- 5	X	3	0	X	1	X	0	X	11	X	1	X	9	X	X	0	3	X	
Y	X	X	1-5	X	1-7	3-11	1-15	3- 18	X	0.5- 5	0.5- 3	X	1- 11.5	X	3	X	X	1-7	1	X	5-7	X	X	14	1-3	X	

A = Ampem; D = Dodi, KP = Kpandui; KK = Kete Krachi; Y = Yeji.
X = no samples.

Table 10

Occurrence (absolute numbers) of Branchiodrilus and Dero in bottom samples at various stations in 1965-1968.

BRANCHIODRILUS

months	1965		1966								1967			1968												Total	
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X	XI		XII
Station																											
A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	5	X	1	X	0	X	0	X	0	X	0	6
D	0	X	0	0	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	-
KP	X	0	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	-
KK	X	1	5	X	1	0	1	11	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X		0	X	9
Y	X	X	0	X	0	0	4	0	X	2	1	X	1	X	3	X	X	0	1	X	3	X	X	1	0	X	16
Total	-	1	5	-	1	-	5	1	-	2	1	-	1	-	3	5	-	1	1	-	3	-	-	1	-	-	31

DERO

A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	9	9
D	0	X	1	1	X	0	0	1	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	3
KP	X	2	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	2
KK	X	0	2	X	0	0	0	0	X	0	0	X	0	X	1	X	0	X	0	X	0	X	X	0	1	X	4
Y	X	X	2	X	0	0	1	0	X	0	0	X	1	X	0	X	X	0	0	X	0	X	X	0	0	X	4
Total	-	2	5	1	-	-	1	1	-	-	-	-	1	-	1	-	-	-	-	-	0	-	-	-	1	9	22

Table II

University of Ghana <http://ugspace.ug.edu.gh>Occurrence (absolute numbers) of *Bulinus truncatus rohlfsi* (Audouin) in bottom samples at various stations in 1965-1968 together with range of depth distribution.

month Station	1965 1966		1967												1968												Total
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
A	0	0	X	X	X	X	6	X	1	X	X	1	X	4	X	10	X	16	X	9	X	4	X	1	X	7	59
D	0	X	0	0	X	0	0	0	X	1	0	X	1	X	0	X	0	X	0	X	0	X	0	X	0	X	2
KP	X	1	0	X	0	0	1	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	2
KK	X	0	1	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X	0	0	X	1
Y	X	X	0	X	1	0	2	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X	3
Total	0	1	1	0	1	0	9	0	1	1	0	1	1	4	0	10	0	16	0	9	0	4	0	1	0	7	67

The range of depth distribution (m)

A	0	0	X	X	X	X	2-4	X	1.5	X	X	0.5	X	2-3	X	1-10	X	1-5	X	1-3	X	3	X	5	X	1-3
D	0	X	0	0	X	0	0	0	X	5	0	X	3	X	0	X	0	X	0	X	0	X	0	X	0	X
KP	X	2	0	X	0	0	4	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KK	X	0	1	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X	0	0	X
Y	X	X	0	X	2.5	0	3	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X

Table 12

Occurrence (absolute numbers) of Ostracoda in bottom samples at various stations in 1965 - 1968 together with range of depth distribution.

month Station	1965 1966				1967								1968												Total		
	XII	II	IV	VI	VII	VIII	IX	VI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X		XI	XII
A	10	30	X	X	X	X	1	X	1	X	X	2	X	0	X	1	X	5	X	21	X	0	X	1	X	35	107
D	3	X	0	0	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	3
KP	X	2	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	2
KK	X	0	3	X	0	0	0	0	X	1	0	X	0	X	0	X	0	X	0	X	0	X	X	7	0	X	11
Y	X	X	0	X	2	0	0	0	X	0	6	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X	8
Total	13	32	3	-	2	-	1	-	1	1	6	2	-	-	-	1	-	5	-	21	-	-	-	8	-	35	131

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The range of depth distribution (m)

A	1-2	1-3	X	X	X	X	4	X	1.5	X	X	0.5	X		X	1	X	1	X	4	X		X	3	X	1-7
D	7-12	X	0	0	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KP	X	1-3	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KK	X	0	1-7	X	0	0	0	0	X	10	0	X	0	X	0	X	0	X	0	X	0	X	X	1-2	0	X
Y	X	X	0	X	2.5	0	0	0	X	0	1.5-3	X	0	X	0	X	0	0	0	X	0	X	X	0	0	X

Table 13

Occurrence (absolute numbers) of *Cyclosetheria hislopi* Baird in bottom samples at various stations in 1965-1968 together with range of depth distribution.

month Station	1965			1966			1967												1968												Total
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII					
A	0	10	X	X	X	X	0	X	0	X	X	8	X	0	X	13	X	5	X	3	X	3	X	1	X	15	58				
D	1	X	4	1	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	6				
KP	X	2	3	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	5				
KK	X	2	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	2				
Y	X	X	0	X	0	1	0	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X	1				
Total	1	14	7	1	-	1	-	-	-	-	-	8	-	-	-	13	-	5	-	3	-	3	-	1	-	15	72				

The range of depth distribution (m)

A	0	1-3	X	X	X	X	0	X	0	X	X	0.5	X	0	X	1	X	1	X	1-3	X	1-5	X	1	X	1-3
D	1	X	7-9	11	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KP	X	3	1-5	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KK	X	1-3	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X	0	0	X
Y	X	X	0	X	0	7	0	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X

Table 14

University of Ghana <http://ugspace.ug.edu.gh>

Occurrence (absolute numbers) of Hydracarina in bottom samples at various stations in 1965-1968 together with range of depth distribution.

month	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Total
Station																											
A	5	0	X	X	X	X	0	X	0	X	X	0	X	5	X	7	X	6	X	11	X	0	X	0	X	123	157
D	2	X	2	0	X	0	0	5	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	9
KP	X	3	0	X	0	0	0	0	X	1	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	4
KK	X	0	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X	0	1	X	1
Y	X	X	0	X	0	0	0	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X	-
Total	?	3	2	-	-	-	-	5	-	1	-	-	-	5	-	7	-	6	-	11	-	-	-	-	1	123	171

The range of depth distribution (m)

A	2-5	0	X	X	X	X	0	X	0	X	X	0	X	2-5	X	2	X	1-3	X	1-7	X	0	X	0	X	1-7
D	1-6	X	4	0	X	0	0	1.5 5	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KP	X	1-4	0	X	0	0	0	0	X	0.5	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KK	X	0	0	X	0	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	X	0	3	X
Y	X	X	0	X	0	0	0	0	X	0	0	X	0	X	0	X	X	0	0	X	0	X	X	0	0	X

Occurrence (absolute numbers) of the nymphs of *Povilla adusta* Navas in bottom samples at various stations in 1965-1968 together with range of depth distribution.

month Station	1965		1966		1967								1968												Total		
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X		XI	XII
A	0	0	X	X	X	X	0	X	0	X	X	13	X	0	X	7	X	47	X	5	X	3	X	0	X	9	84
D	2	X	125	7	X	8	2	10	X	3	26	X	2	X	1	X	0	X	2	X	0	X	0	X	7	X	195
KP	X	6	18	X	54	31	3	41	X	28	73	X	10	X	3	X	21	X	6	X	0	X	0	X	4	X	298
KK	X	0	46	X	20	11	5	16	X	8	16	X	1	X	4	X	2	X	0	X	0	X	X	2	5	X	136
Y	X	X	45	X	23	12	17	0	X	0	0	X	0	X	5	X	X	1	1	X	0	X	X	1	0	X	105
Total	2	6	234	7	97	62	27	67	-	39	115	13	13	-	13	7	23	48	9	5	-	3	-	3	16	9	818

The range of depth distribution (m)

A	0	0	X	X	X	X	0	X	0	X	X	0.5- 6	X	0	X	1-3	X	1-7	X	3	X	1-5	X	0	X	1-7
D	4-6	X	1-7	3-11	X	1-11	3- 10	1.5- 7.5	X	0.5- 5	0.5- 8	X	3-8	X	8	X	0	X	1	X	0	X	0	X	1	X
KP	X	3-4	1-7	X	3-9	0.5-4- 7.5 10	3-5	X	0.5- 3	0.5- 4	X	1-7	X	1-8	X	1-5	X	1-3	X	0	X	0	X	3-5	X	
KK	X	0	1-5	X	3	4-8	3-10	3-8	X	3-5	3	X	1	X	1-3	X	1-3	X	0	X	0	X	X	3	1-5	X
Y	X	X	1-7	X	2.5- 7	3-10	4- 15	0	X	0	0	X	0	X	1-3	X	X	3	3	X	0	X	X	9	0	X

Table 16

Occurrence (absolute numbers) of the adults of *Povilla adusta* Navas in light catches at various stations in 1966-1968 for females and males separately.

month	1966								1967							1968							Total					
	II	IV	VI	VII	VIII	IX	XI	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII		IX	X	XI		
Females	Sta.																											
A	0	X	X	X	X	0	0	X	0	X	X	X	29	X	8	X	8	7	X	35	X	11	X	27	X	125		
D	0	12	5	X	X	X	X	X	X	5	X	25	X	X	X	47	X	X	X	X	X	X	X	X	X	94		
KP	23	15	12	X	X	X	X	13	X	8	X	22	27	48	X	64	13	X	X	7	42	10	X	X	1	305		
KK	50	1	X	12	0	X	X	14	X	20	X	23	31	4	3	X	14	14	X	13	29	4	X	54	99	385		
Y	X	65	X	31	X	20	X	57	X	63	2	X	26	25	47	X	0	37	X	33	X	19	X	44	72	541		
MP	X	X	X	X	X	X	X	X	X	X	0	X	0	X	1	X	X	X	X	3	X	0	X	81	X	85		
Total	73	93	17	43	0	20	0	84	0	96	2	70	113	77	59	111	35	58		91	71	44		206	172	1,535		
Males	Sta.																											
A	0	X	X	X	X	0	0	X	0	X	X	X	8	X	0	X	8	0	X	19	X	8	X	14	X	57		
D	1	10	0	X	X	X	X	X	X	34	X	32	X	X	X	20	X	X	X	X	X	X	X	X	X	97		
KP	18	89	5	X	X	X	X	12	X	4	X	32	13	19	X	27	4	X	X	18	7	7	X	X	157	412		
KK	33	5	X	33	9	X	X	18	X	9	X	6	4	6	2	X	7	21	X	12	6	8	X	61	1	241		
Y	X	11	X	12	X	20	X	120	X	50	7	X	10	34	42	X	1	3	X	1	X	11	X	35	12	369		
MP	X	X	X	X	X	X	X	X	X	X	0	X	10	X	0	X	X	X	X	2	X	1	X	35	X	48		
Total	52	115	5	45	9	20	0	150	0	97	7	70	45	59	44	47	20	24		52	13	35		145	170	1,224		

Table 17

Occurrence (absolute numbers) of the adults of *Cloeon* in light catches at various stations in 1966-1968.

month Station	1966			1967						1968											Total					
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI		VII	VIII	IX	X	XI
A	4	X	X	X	X	0	0	X	0	X	X	X	0	X	1	X	0	0	X	0	X	3	X	0	X	8
D	0	0	1	X	X	X	X	X	X	5	X	0	X	X	X	0	X	X	X	X	X	X	X	X	X	6
KP	6	1	1	X	X	X	X	0	X	0	X	1	0	0	X	1	1	X	X	0	0	X	X	X	0	11
KK	22	0	X	40	84	X	X	1	X	4	X	0	0	0	X	19	0	X	1	0	0	X	0	0	171	
Y	X	0	X	37	X	0	X	7	117	3	0	16	0	0	10	X	1	0	X	0	X	0	X	0	0	191
MP	X	X	X	X	X	X	X	X	X	X	0	X	0	X	5	X	5	X	X	0	X	4	X	2	X	16
Total	32	1	2	77	84	0	0	8	117	12	0	17	0	0	16	1	26	0	1	0	7	2	0	403		

Table 18

Occurrence (absolute numbers) of the larvae of *Exochus* in bottom samples at various stations in 1965 - 1968 together with range of depth distribution.

month Station	1965		1966		1967							1968												Total			
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX		X	XI	XII
A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	-
D	1	X	2	0	X	2	1	5	X	0	0	X	3	X	3	X	2	X	1	X	1	X	12	X	4	X	57
KP	X	0	0	X	10	2	0	1	X	0	0	X	2	X	0	X	0	X	3	X	3	X	1	X	0	X	22
KK	X	0	1	X	3	0	0	0	X	0	0	X	5	X	3	X	2	X	6	X	2	X	X	4	2	X	28
Y	X	X	4	X	1	4	0	0	X	0	0	X	0	X	0	X	X	1	5	X	0	X	X	0	1	X	16
Total	1	-	7	-	14	8	1	6	-	-	-	-	10	-	6	-	4	1	15	-	6	-	13	4	7	-	103

18

The range of depth distribution (m)

A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	0
D	0.5	X	4-7	0	X	1	3	1.5-17	X	0	0	X	3-11	X	1-8	X	5-11	X	3	X	3	X	1-3	X	1-9	X	X
KP	X	0	0	X	1	0.5-3	0	5	X	0	0	X	3-5	X	0	X	0	X	1	X	1-11	X	3	X	0	X	
KK	X	0	3	X	3	0	0	0	X	0	0	X	1-11	X	1-3	X	1	X	3-11	X	9	X	X	3	3-11	X	
Y	X	X	1-2	X	2.5	1-9	0	0	X	0	0	X	0	X	0	X	X	1	1-3	X	0	X	X	0	5	X	

Table 19

Occurrence (absolute numbers) of the larvae of *Dipseudopsis* in bottom samples in 1965-1968 together with range of depth distribution.

month Station	1965 1966												1967						1968						Total	
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX	X		XI
A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0
D	1	X	1	0	X	0	0	0	X	0	0	X	1	X	1	X	1	X	0	X	0	X	0	X	0	X
KP	X	0	0	X	2	14	0	3	X	1	1	X	1	X	0	X	0	X	3	X	0	X	2	X	1	X
KK	X	0	2	X	7	5	8	5	X	0	8	X	3	X	2	X	1	X	1	X	1	X	X	3	2	X
Y	X	X	0	X	0	4	8	0	X	0	0	X	0	X	1	X	X	0	1	X	3	X	X	1	0	X
Total	1	-	3	-	9	23	16	8	-	1	9	-	5	-	4	-	2	-	5	-	4	-	2	4	3	-

The range of depth distribution (m)

A	0	0	X	X	X	X	0	X	0	X	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0
D	6	X	6	0	X	0	0	0	X	0	0	X	3	X	8	X	3	X	0	X	0	X	0	X	0	X
KP	X	0	0	X	1	0.5-1	0	7	X	7.5	3	X	7	X	0	X	0	X	1-3	X	0	X	7-17	X	5	X
KK	X	0	1-7	X	1-7	1-6	3-12	3-8	X	0	1.5-5	X	3-8	X	1-3	X	3	X	5	X	7	X	X	3-9	1-5	X
Y	X	X	0	X	0	9-11	8-15	0	X	0	0	X	0	X	8	X	X	0	5	X	5-7	X	X	11	0	X

Table 20

Occurrence (absolute number) of the stages of *Dipseudopsis*, *Ecnomus* and *Conus* in light catches at various stations in 1966-1968.

Station	1966												1967												1968												Total
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII	IX	X													
	DIPSEUDOPSIS																																				
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X		X	0	0	X	0	X	0	X	0	-												
D	0	0	3	X	X	X	X	X	X	1	X	X	X	X	X	11	X	X	X	X	X	X	X	X	15												
KP	9	0	0	X	X	X	X	1	X	X	X	6	0	X	X	1	X	X	X	6	0		X	X	23												
KK	9	3	X	68	111	16	X	8	X	7	X	8	4	4	0	X	0	1	0	1	X	1	X	X	241												
Y	X	0	X	3	X	14	X	4	0	0	2	8	0	X	2	X	0	3	X	7	X	0	X	X	43												
M	X	X	X	X	X	X	X	X	X	X	1	X	0	X		X	0	X	X	0	X	2	X	8	11												
Total	18	3	3	71	111	30	0	13	0	8	3	22	4	4	2	12	0	4	0	14	0	3	0	8	333												
	ECNOMUS																																				
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X		X	0	0	X	0	X	0	X	0	-												
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-												
KP	8		0	X	X	X	X	0	X	X	X	0	0	X	X		X	X	X	0	0		X	X	8												
KK	0	0	X	7	68	1	X	0	X	3	X	3	0	4	1	X	0	0	5	1	X	0	X	X	93												
Y	X	0	X	0	X	0	X	0	0	0	0	0	0	X	0	X	0	0	X	0	X	0	X	X	-												
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X		X	0	X	X	0	X	0	X	0	-												
Total	8	0	0	7	68	1	0	0	0	3	0	3	0	4	1	0	0	0	5	1	0	0	0	0	101												

Table 21

Occurrence (absolute numbers) of the adults of *Amphipsyche* in light catches at various stations in 1966-1968.

Month Station	1966			1967												1968						Total			
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII		VIII	IX	X
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	28	10	0	X	X	X	X	0	X	X	X	1	0	X	X	0	X	X	X	5	0	0	X	X	44
KK	1	1	X	0	0	0	X	0	X	4	X	0	1	0	0	X	0	2	0	0	X	0	X	X	9
Y	X	0	X	0	X	0	X	2	0	1	0	0	0	X	0	X	0	0	X	0	X	0	X	1	4
N	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	0	-
Total	29	10	0	0	0	0	0	2	0	5	0	1	1	0	0	0	0	2	0	5	0	0	0	1	56

Amphipsyche senegalensis (Brauer)

Table 22

Occurrence (absolute numbers) of the larvae of Chaoboridae in bottom samples at various stations in 1965-1968 together with range of depth distribution.

month Stations	1965 1966		1967									1968												Total			
	XII	II	IV	VI	VII	VIII	IX	XI	XII	I	IV	V	XI	XII	I	II	III	IV	V	VI	VII	VIII	IX		X	XI	XII
A	676	122	X	X	X	X	1	X	44	X	X	20	X	9	X	1	X	0	X	28	X	2	X	1	X	4	908
D	0	X	0	0	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	-
KP	X	0	0	X	0	0	2	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X	2
KK	X	0	0	X	0	0	0	0	X	0	0	X	5	X	1	X	0	X	5	X	0	X	X	1	5	X	17
Y	X	X	0	X	0	0	0	0	X	0	0	X	1	X	1	X	X	0	7	X	0	X	X	2	6	X	17
Total	676	122	-	-	-	-	3	-	44	-	-	20	6	9	2	1	-	-	12	28	-	2	-	4	11	4	944

The range of depth distribution (m)

A	1-8	1-9	X	X	X	X	2	X	1.5- 13	X	X	4- 10	X	2- 15	X	2	X	0	X	3-7	X	5-7	X	3	X	5- 11
D	0	X	0	0	X	0	0	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KP	X	0	0	X	0	0	12	0	X	0	0	X	0	X	0	X	0	X	0	X	0	X	0	X	0	X
KK	X	0	0	X	0	0	0	0	X	0	0	X	1- 12	X	11	X	0	X	7	X	0	X	X	1	20	X
Y	X	X	0	X	0	0	0	0	X	0	0	X	11.5	X	5	X	X	0	1- 11	X	0	X	X	3-5	5- 11	X

Table 23

Occurrence (absolute numbers) of the adults of *Chaoborus* (*Neochaoborus*), *Anomalus* Edwards and C. (*Sayomyia*) *ceratopogones* Theobald in light catches at various stations in 1966-1968.

month Stations	1966								1967								1968								Total
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII	IX	X	
	CHAOBORUS (NEOCHAOBORUS) ANOMALUS																								
A	20	X	X	X	X	74	3	X	0	X	X	X	139	X	0	X	0	0	X	0	X	0	X	0	236
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	4	0	0	X	X	X	X	2	X	X	X	15	0	X	X	2	X	X	X	0	0	X	X	23	
KK	14	180	X	9	2	35	X	1	X	0	X	62	1	12	5	X	0	0	34	0	X	0	X	355	
Y	X	3725	X	31	X	1	X	0	0	41	380	1	9	X	0	X	0	0	X	0	X	0	X	4188	
M	X	X	X	X	X	X	X	X	X	X	31	X	1	X	132	X	1	X	X	0	X	0	X	165	
Total	38	3905	0	40	2	110	3	3	0	41	411	78	150	12	137	2	1	0	34	0	0	0	0	4967	

CHAOBORUS (SAYOMYIA) CERATOPOGONES

A	0	X	X	X	X	24	17	X	0	X	X	X	1	X	0	X	0	0	X	0	X	0	X	0	42
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	1	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	1	
KK	0	0	X	0	0	1	X	0	X	0	X	0	0	0	0	X	0	0	0	0	X	0	X	1	
K	X	37	X	0	X	0	X	0	0	0	1	0	0	X	0	X	0	0	X	0	X	0	X	38	
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	-	
Total	-	37	1	-	-	25	17	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	82	

Table 2.

Occurrence (absolute numbers) of the adults of Ceratopogonidae in light catches at various stations in 1966-1968.

month Stations	1966			1967							1968										Total				
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VII		VIII	IX	X	
A	0	X	X	X	X	1	X	X	0	X	X	X	0	X	0	X	0	1	X	0	X	0	X	0	3
D	0	1	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
KP	0	0	0	X	X	X	X	1	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	1
KK	2	0	X	6	3	1	X	0	X	0	X	0	0	0	0	X	0	0	0	0	X	0	X	X	12
Y	X	3	X	5	X	0	X	3	0	0	0	0	0	X	0	X	0	0	X	0	X	0	X	X	11
N	X	X	X	X	X	X	X	X	X	X	0	X	1	X	0	X	1	X	X	0	X	0	X	X	2
Total	2	4	0	11	3	2	1	4	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	30

Table 25 (continued)

Organism	Stations	AKOSO-MBO		AMPEM				DODI				KPANDU			KETE KRACHI			YEJI			AK A D KP KK Y					
		Year	65	66	65	66	67	68	65	66	67	68	66	67	68	66	67	68	66	67	68	1965-1968				
CNUSTACRA																										
Cladocera																										
	<i>Ilyocryptus sordidus</i> (Lievig)	+	-	+	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-	+	+	-	-	+	-
	<i>Ceriodaphnia</i> sp.	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
	Copepoda	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-
	Ostracoda	+	+	+	+	+	+	+	-	-	-	+	-	-	+	+	+	+	+	-	+	+	+	+	+	+
	Conchostraca																									
	<i>Cyclestheria hislopi</i> Baird	+	-	-	+	+	+	+	+	-	-	+	-	-	+	-	-	+	-	-	+	+	+	+	+	+
HYDRACARINA																										
		-	-	+	-	+	+	+	+	-	-	+	+	-	-	-	+	-	-	-	-	+	+	+	+	+
EPHEMEROPTERA																										
	<i>Pevilla adusta</i> Navas	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	-	+	+	+
	<i>Caenis</i> spp.	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	-	+	+	+
	<i>Cloeon</i> spp.	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
ODONATA																										
	Zygoptera	+	-	-	-	+	+	+	+	-	+	-	-	-	-	-	-	-	-	-	+	+	+	-	-	-
	Anisoptera	+	-	-	+	+	+	+	+	-	-	+	-	+	+	+	-	+	-	+	+	+	+	+	+	+
HEMIPTERA																										
	<i>Micronecta</i> spp.	+	-	+	+	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	+	+	+	-	+	-
	<i>Gerris</i> sp.	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

Table 25 (continued)

University of Ghana <http://ugspace.ug.edu.gh>

Organism	Stations	AKOSOB MBO		AMPEN				DODI				KPANDU			KETE KRACHI			YEJI			AK	A	D	KP	KK	Y			
		Year	65	66	65	66	67	68	65	66	67	68	66	67	68	66	67	68	66	67	68	1965-1968							
TRICHOPTERA																													
Dipseudopsis njalana Ulmer		-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	+	+	+	+		
Orthotrichia smaeleni Jacquemart		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	
Ecnomus spp.		-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+	+	+	+	
COLEOPTERA																													
Dytiscidae		+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	
DIPTERA (other than Chironomidae)																													
Chaoboridae		-	-	+	+	+	+	-	-	-	-	+	-	-	-	+	+	-	+	+	-	-	-	-	+	-	+	+	
Ceratopogonidae		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
LEPIDOPTERA																													
Pyralidae		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
TOTAL		15	6	6	5	10	10	17	11	6	7	16	8	7	14	8	12	13	6	10	16	21	18	16	18	16			

Table 26

Depth distribution of four major groups of chironomid larvae in 1965, 1966 and 1968 at various stations, expressed as percentage abundance by number for each of the three depth zones (1-3m, 5-9m, and 11-25m).

AKOSOMBO

Year	depth zone (m)	1 - 3	5 - 9	11 - 25
	organism			
1965	Tanypodinae	1.61	0.00	0.00
	Chironomini	98.02	100.00	100.00
	Tanytarsini	0.37	0.00	0.00
	Orthocladiinae	0.00	0.00	0.00
1966	Tanypodinae	0.00	0.00	0.00
	Chironomini	100.00	100.00	0.00
	Tanytarsini	0.00	0.00	0.00
	Orthocladiinae	0.00	0.00	0.00
1968	Tanytarsini			
	Tanypodinae	0.67	1.69	0.00
	Chironomini	64.96	73.73	75.00
	Tanytarsini	34.37	24.58	25.00
1968	Orthocladiinae	0.00	0.00	0.00
	Chironomini			
	Tanytarsini			
	Orthocladiinae			

Table 26 (continued)

Year	depth zone (m)	1 - 3	5 - 9	11 - 25
		DODI		
	Tanypodinae	1.29	0.44	1.80
1968	Chironomini	65.30	89.47	90.99
	Tanytarsini	32.12	10.09	6.31
	Orthoclaadiinae	1.29	0.00	0.90
		KPANDU		
	Tanypodinae	0.54	1.75	0.00
1966	Chironomini	64.78	90.35	100.00
	Tanytarsini	34.68	7.90	0.00
	Orthoclaadiinae	0.00	0.00	0.00
	Tanypodinae	0.00	0.00	0.00
1968	Chironomini	90.59	84.62	100.00
	Tanytarsini	8.55	15.38	0.00
	Orthoclaadiinae	0.86	0.00	0.00
		KETE KRACHI		
	Tanypodinae	9.09	1.65	0.00
1966	Chironomini	69.09	79.67	100.00
	Tanytarsini	21.82	18.68	0.00
	Orthoclaadiinae	0.00	0.00	0.00

Table 26 (continued)

Year	depth zone (m)	1 - 3	5 - 9	11 - 25
KETE KRACHI				
	Tanypodinae	0.71	0.00	0.00
1968	Chironomini	89.55	97.83	100.00
	Tanytarsini	9.50	2.17	0.00
	Orthoclaadiinae	0.24	0.00	0.00
YEJI				
	Tanypodinae	0.46	1.16	0.00
1966	Chironomini	99.54	97.68	100.00
	Tanytarsini	0.00	0.00	0.00
	Orthoclaadiinae	0.00	1.16	0.00
	Tanypodinae	0.54	0.00	0.00
1968	Chironomini	98.37	100.00	100.00
	Tanytarsini	1.09	0.00	0.00
	Orthoclaadiinae	0.00	0.00	0.00
AMPEM				
	Tanypodinae	0.49	0.00	0.00
1966	Chironomini	99.51	100.00	0.00
	Tanytarsini	0.00	0.00	0.00
	Orthoclaadiinae	0.00	0.00	0.00

Table 26 (continued)

Year	depth zone (m)	1 - 3	5 - 9	11 - 25
		AMPEM		
	Tanypodinae	1.16	0.00	0.00
1968	Chironominae	88.22	100.00	100.00
	Tanytarsini	10.62	0.00	0.00
	Orthocladinae	0.00	0.00	0.00

Table 27

Occurrence (absolute numbers) of the adults of *Aburabusia nilivittata* in light catches at various stations in 1966-1968.

month Stations	1966									1967					1968						Total				
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI		VII	VIII	IX	X
A	0	X	X	X	X	0	5	X	0	X	X	X	1	X	1	X	0	0	X	0	X	7	X	1	15
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
KP	5	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	5
KK	1	9	X	16	7	21	X	0	X	0	X	0	0	4	0	X	0	0	0	0	X	0	X	X	58
Y	X	4	X	2	X	0	X	0	2	0	0	0	0	X	1	X	0	0	X	0	X	0	X	X	9
H	X	X	X	X	X	X	X	X	X	X	0	X	0	X	4	X	3	X	X	0	X	0	X	X	7
Total	6	13	0	18	7	21	5	0	2	0	0	0	1	4	6	0	3	0	0	0	0	7	0	1	94

Table 28

University of Ghana <http://ugspace.ug.edu.gh>
 Occurrence (absolute numbers) of the adults of *Chironomus formosipennis* Kieffer and *C. imicola* Kieffer in light catches at various stations in 1966-1968.

months Stations	1966			1967												1968												Total
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII	IX	X				
CHIRONOMUS FORMOSIPENNIS																												
A	1	X	X	X	X	0	0	X	2	X	X	X	10	X	0	X	3	2	X	2	X	3	X	0	23			
D	0	1	60	X	X	X	X	X	X	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	62			
KP	65	4	29	X	X	X	X	8	X	X	X	13	4	X	X	22	X	X	X	0	3	X	X	X	148			
KK	328	64	X	328	246	17	X	8	X	13	X	80	28	2	10	X	5	0	5	7	X	7	X	X	1148			
Y	X	98	X	24	X	4	X	0	2	11	14	37	7	X	1	X	20	9	X	25	X	5	X	X	257			
M	X	X	X	X	X	X	X	X	X	X	18	X	2	X	2	X	2	X	X	53	X	8	X	X	85			
Total	394	167	89	352	246	21	0	16	4	25	32	130	51	2	13	22	30	11	5	87	3	23	0	0	1723			
CHIRONOMUS IMICOLA																												
A	0	X	X	X	X	0	1	X	0	X	X	X	0	X	1	X	0	0	X	0	X	0	X	0	2			
D	0	0	4	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4			
KP	4	4	8	X	X	X	X	0	X	X	X	10	0	X	X	16	X	X	X	6	69	X	X	X	117			
KK	23	7	X	18	37	6	X	1	X	4	X	1	2	2	2	X	0	1	38	5	X	17	X	X	164			
Y	X	12	X	8	X	0	X	0	2	6	10	4	0	X	2	X	2	0	X	0	X	0	X	X	46			
M	X	X	X	X	X	X	X	X	X	X	2	X	0	X	X	X	11	X	X	0	X	0	X	X	13			
Total	27	23	12	26	37	6	1	1	2	10	12	15	2	2	5	16	13	1	38	11	69	17	0	0	346			

Table 29

Occurrence (absolute numbers) of the adults of *Chironomus transvaalensis* Kieffer and *C. alluaudi* Kieffer in light catches at various stations in 1966-1968.

MONTH Station	1966									1967						1968						Total			
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII		VIII	IX	X
CHIRONOMUS TRANSVAALENSIS																									
A	34	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	34
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
KP	24	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	0	0	X	X	X	24	
KK	4	0	X	0	0	0	X	0	X	0	X	0	0	0	0	X	0	0	0	X	0	X	X	4	
Y	X	0	X	0	X	0	X	0	0	0	1	0	0	X	0	X	0	0	X	0	X	0	X	X	1
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	X	0
Total	62	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	63	
CHIRONOMUS ALLUAUDI																									
A	468	X	X	X	X	1	0	X	1	X	X	X	0	X	0	X	1	0	X	0	X	0	X	0	471
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
KP	14	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	0	9	X	X	X	23	
KK	310	0	X	0	0	0	X	0	X	0	X	0	0	0	0	X	0	0	0	X	0	X	X	310	
Y	X	2	X	1	X	0	X	0	0	0	4	0	0	X	0	X	0	0	X	0	X	0	X	X	7
M	X	X	X	X	X	X	X	X	X	X	1	X	0	X	0	X	0	X	X	0	X	0	X	X	1
Total	792	2	0	1	0	1	0	0	1	0	5	0	0	0	0	0	1	0	0	0	9	0	0	812	

34

Table 30

Occurrence (absolute numbers) of the adults of *Dicrotendipes multispinosus* Grunin and *D. chloronotus* Kieffer in light catches at various stations in 1966-1968.

month Station	1966									1967						1968						Total			
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII		VIII	IX	X
DICROTENDIPES MULTISPINOSUS																									
A	0	X	X	X	X	0	0	X	1	X	X	X	0	X	0	X	0	0	X	0	X	0	X	2	3
D	0	0	1	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
KP	44	21	26	X	X	X	X	15	X	X	X	0	0	X	X	1	X	X	X	5	68	X	X	280	
KK	11	16	X	1493	604	353	X	14	X	6	X	1	0	81	24	X	0	0	0	0	X	13	X	2616	
Y	X	0	X	5	X	0	X	0	1	7	0	0	0	X	5	X	2	0	X	0	X	2	X	22	
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	2	X	1	X	X	0	X	0	X	3	
Total	55	37	27	1498	604	353	0	29	2	13	0	1	0	81	31	1	3	0	0	5	68	15	0	2925	
DICROTENDIPES CHLORONOTUS																									
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	5	X	0	5
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	-	
KP	0	2	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	1	X	X	3	
KK	9	6	X	7	0	1	X	0	X	0	X	3	0	2	3	X	0	0	0	0	X	2	X	33	
Y	X	7	X	0	X	0	X	0	3	1	3	1	2	X	0	X	2	0	X	0	X	1	X	20	
M	X	X	X	X	X	X	X	X	X	X	5	X	0	X	0	X	0	X	X	0	X	0	X	5	
Total	9	15	-	7	-	1	-	-	3	1	8	4	2	2	3	-	2	-	-	-	1	8	-	66	

Table 31

Occurrence (absolute number) of *Dicropendipes sudanicus* and *D. kribbicola* in light catches at various stations in 1966-1968.

month Station	1966												1967					1968					Total		
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII		IX	X
DICROPENDIPES SUDANICUS																									
A	24	X	X	X	X	14	5	X	2	X	X	X	336	X	238	X	0	10	X	6	X	60	X	X	695
D	0	1	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
KP	22	7	0	X	X	X	X	1	X	X	X	1	0	X	X	0	X	X	X	2	0	X	X	X	33
KK	43	27	X	52	6	16	X	0	X	0	X	29	0	7	1	X	1	0	1	0	X	0	X	X	183
Y	X	68	X	3	X	0	X	0	4	2	0	6	0	X	0	X	0	0	X	0	X	0	X	X	83
H	X	X	X	X	X	X	X	X	X	X	4	X	12	X	20	X	16	X	X	0	X	0	X	X	52
Total	89	103	0	55	6	30	5	1	6	2	4	36	348	7	259	0	17	10	1	8	0	60	0	0	1047
DICROPENDIPES KRIBBICOLA																									
A	0	X	X	X	X	0	0	X	0	X	X	X	0	42	0	X	0	0	X	0	X	0	X	X	42
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
KP	1	0	1	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	2
KK	2	2	X	7	0	1	X	0	X	0	X	1	0	0	13	X	1	1	1	0	X	0	X	X	29
Y	X	0	X	0	X	0	X	0	0	0	0	0	0	X	23	X	0	0	X	0	X	0	X	X	23
H	X	X	X	X	X	X	X	X	X	X	0	X	0	X	36	X	0	X	X	0	X	0	X	X	36
Total	3	2	1	7	0	1	0	0	0	0	0	1	0	42	72	0	1	1	1	0	0	0	0	0	132

Occurrence (absolute numbers) of the adults of *Nilodorum brevibuca* Kieffer and *N. fractilobus* Kieffer in light catches at various stations in 1966-1968.

Months Station	1966				1967								1968								Total				
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI		VII	VIII	IX	X
NILODORUM BREVIBUCCA																									
A	1	X	X	X	X	0	0	X	4	X	X	X	72	X	7	X	7	107	X	6	X	28	X	0	232
D	0	0	14	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
KP	0	0	0	X	X	X	0	X	X	X	X	1	0	X	X	6	X	X	X	79	129	X	X	X	215
KK	0	0	X	9	7	0	X	0	X	0	X	1	0	0	6	X	72	107	162	88	X	12	X	X	464
Y	X	47	X	7	X	0	X	0	0	61	0	14	0	X	0	X	122	13	X	46	X	2	X	X	312
M	X	X	X	X	X	X	X	X	X	X	0	X	1	X	0	X	0	X	X	53	X	2	X	X	56
Total	1	47	14	16	7	-	-	-	4	61	-	16	73	-	13	6	201	227	162	272	129	44	-	-	1293

NILODORUM FRACTILOBUS																									
A	1564	X	X	X	X	563	1058	X	1239	X	X	X	242	X	15	X	115	8	X	31	X	68	X	64	4967
D	8	25	3	X	X	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	47
KP	288	55	11	X	X	X	62	X	X	X	X	4	10	X	X	7	X	X	X	0	3	X	X	X	440
KK	874	1743	X	84	224	74	X	57	X	40	X	90	17	4	73	X	17	6	27	17	X	19	X	X	3366
Y	X	142	X	18	X	2	X	89	15	180	33	119	40	X	83	X	18	90	X	6	X	1	X	X	836
M	X	X	X	X	X	X	X	X	X	X	8	X	7	X	32	X	88	X	X	1	X	47	X	X	183
Total	2734	1965	14	102	224	639	1058	208	1254	231	41	243	316	4	203	7	238	104	27	55	3	135	-	64	9839

Table 33

Occurrence (absolute numbers) of the adults of *Nilodorum rugosum* Freeman and *N. brevipalpis* Kieffer in light catches at various stations in 1966-1968.

Station	1966									1967					1968						Total				
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI		VII	VIII	IX	X
NILODORUM RUGOSUM																									
A	0	X	X	X	X	0	31	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	31
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	0
KK	9	0	X	143	109	20	X	3	X	0	X	1	0	2	2	X	20	3	3	1	X	0	X	X	316
Y	X	89	X	17	X	3	X	0	3	2	6	10	0	X	1	X	15	9	X	90	X	0	X	X	245
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	1	X	X	1	X	0	X	X	2
Total	9	89	0	160	109	23	31	3	3	2	6	11	0	2	3	0	36	12	3	92	0	0	0	0	594
NILODORUM BREVIPALPIS																									
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	X	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	61	0	X	X	X	X	61
KK	1	0	X	0	0	0	X	0	X	0	X	0	0	0	0	X	0	0	0	0	X	0	X	X	1
Y	X	0	X	3	X	0	X	2	1	2	0	0	0	X	0	X	11	0	X	0	X	0	X	X	19
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	X	0
Total	1	-	-	3	-	-	-	2	1	2	-	-	-	-	-	-	11	-	-	61	-	-	-	-	81

Table 34

Occurrence (absolute numbers) of the adults of *Cryptochironomus lindneri* Freeman and *C. diceras* Kieffer in light catches at various stations in 1966-1968.

months	1966												1967						1968						Total
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII	IX	X	
Stations	CRYPTOCHIRONOMUS LINDNERI																								
A	0	X	X	X	X	0	0	X	1	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	1
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	15	X	X	X	15	
KK	1	8	X	44	102	4	X	0	X	0	X	1	1	0	0	X	3	0	0	1	X	9	X	X	174
Y	X	1	X	0	X	0	X	0	0	0	0	6	0	X	0	X	1	0	X	1	X	30	X	X	39
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	1	X	X	1
Total	1	9	-	44	102	4	-	-	1	-	-	7	1	-	-	-	4	-	-	2	15	40	-	-	250
	CRYPTOCHIRONOMUS DICERAS																								
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	-	
KK	0	4	X	3	0	0	X	0	X	0	X	0	0	0	0	X	0	0	0	0	X	0	X	X	7
Y	X	0	X	0	X	0	X	0	0	0	0	0	0	X	0	X	0	0	X	0	X	0	X	X	-
M	X	X	X	X	X	X	X	X	X	X	0	X	0	2	0	X	0	X	X	0	X	0	X	X	2
Total	-	4	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	9

Table 35

Occurrence (absolute numbers) of the adults of *Cryptochironomus nudiforceps* Kieffer in light catches at various stations in 1966-1968.

months	1966												1967					1968					Total		
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII		IX	X
Stations																									
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	1	X	0	X	0	1
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	-
KK	0	2	X	10	0	0	X	0	X	0	X	6	0	0	0	X	0	0	3	0	X	0	X	X	21
Y	X	0	X	0	X	0	X	0	0	0	0	0	0	X	0	X	0	0	X	0	X	0	X	X	-
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	X	-
Total	-	2	-	10	-	-	-	-	-	-	-	6	-	-	-	-	-	-	3	1	-	-	-	-	22

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Table 36

Occurrence (absolute numbers) of the adults of *Cryptochironomus forcipatus* Freeman and *C. acutus* Goetghebuer in light catches at various stations in 1966-1968.

months Stations	1966			1967									1968										Total		
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI	VII	VIII		IX	X
CRYPTOCHIRONOMUS FORCIPATUS																									
A	1	X	X	X	X	0	0	X	3	X	X	X	271	X	0	X	0	0	X	0	X	0	X	0	275
D	0	1	59	X	X	X	X	X	X	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	61
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	1	0	X	X	X	1
KK	34	46	X	361	27	6	X	0	X	1	X	17	2	5	1	X	0	1	1	0	X	0	X	X	502
Y	X	13	X	46	X	0	X	0	0	3	0	0	0	X	0	X	0	0	X	0	X	17	X	X	79
M	X	X	X	X	X	X	X	X	X	X	0	X	1	X	0	X	0	X	X	0	X	0	X	X	1
Total	35	60	59	407	27	6	-	-	3	5	-	17	274	5	1	-	-	1	1	1	-	17	-	-	919
CRYPTOCHIRONOMUS ACUTUS																									
A	0	X	X	X	X	14	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	8	X	0	22
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	X	-
KK	0	0	X	0	0	0	X	0	X	0	X	0	0	5	0	X	0	0	0	0	X	0	X	X	5
Y	X	1	X	0	X	0	X	0	0	0	0	0	0	X	2	X	0	0	X	0	X	0	X	X	3
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	10	X	0	X	X	0	X	0	X	X	10
Total	-	1	-	-	-	14	-	-	-	-	-	-	-	5	12	-	-	-	-	-	-	8	-	-	40

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Table 37

Occurrence (absolute numbers) of the adults of *Polypedilum longicrus* Kieffer and *P. griseoguttatum* Kieffer in light catches at various stations in 1966-1968.

months	1966			1967												1968					Total				
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV	V	VI		VII	VIII	IX	X
Stations	POLYPEDILUM LONGICRUS																								
A	0	X	X	X	X	1	2	X	3	X	X	X	0	X	0	X	0	0	X	0	X	0	X	1	7
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	90	1	3	X	X	X	X	11	X	X	X	0	0	X	X	8	X	X	X	6	137	X	X	X	256
KK	2	8	X	390	274	35	X	4	X	1	X	56	9	870	84	X	6	13	37	14	X	5	X	X	1808
Y	X	1	X	5	X	0	X	0	23	57	0	0	0	X	3	X	6	2	X	0	X	33	X	X	130
M	X	X	X	X	X	X	X	X	X	X	0	X	1	X	27	X	0	X	X	0	X	0	X	X	28
Total	92	10	3	395	274	36	2	15	26	58	-	56	10	870	114	8	12	15	37	20	137	38	-	1	2229

POLYPEDILUM GRISEOGUTTATUM

A	0	X	X	X	X	0	0	X	0	X	X	X	1	X	0	X	0	0	X	0	X	0	X	0	1
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	1	0	0	X	X	X	X	0	X	X	X	0	0	X	X	1	X	X	X	4	37	X	X	X	43
KK	2	0	X	3	51	0	X	0	X	1	X	13	0	31	4	X	6	8	16	3	X	0	X	X	138
Y	X	0	X	0	X	0	X	0	0	81	0	0	0	X	1	X	3	0	X	1	X	5	X	X	91
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	X	-
Total	3	-	-	3	51	-	-	-	-	82	-	13	1	31	5	1	9	8	16	8	37	5	-	-	273

Table 38

Occurrence (absolute numbers) of the adults of *Polypedilum deletum* Coetghebuer and *P. fuscipenne* Kieffer in light catches at various stations in 1966-1968.

months Station	1966												1967					1968					Total		
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XIII	I	II	IV	V	VI	VII	VIII		IX	X
	POLYPEDILUM DELETUM																								
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	0	0	X	X	-	
KK	1	4	X	37	41	0	X	0	X	0	X	1	0	11	0	X	0	1	6	2	X	2	X	106	
Y	X	3	X	1	X	0	X	0	0	5	1	0	0	X	0	X	1	0	X	0	X	0	X	11	
M	X	X	X	X	X	X	X	X	X	X	0	X	1	X	0	X	2	X	X	0	X	0	X	3	
Total	1	7	-	38	41	-	-	-	-	5	1	1	1	11	-	-	3	1	6	2	-	-	-	119	
	POLYPEDILUM FUSCIPENNE																								
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	0	0	0	X	X	X	X	0	X	X	X	0	0	X	X	0	X	X	X	2	0	X	X	2	
KK	9	0	X	1	0	0	X	0	X	0	X	0	0	16	0	X	0	0	0	0	X	0	X	26	
Y	X	19	X	3	X	1	X	0	0	1	1	0	0	X	0	X	0	0	X	0	X	0	X	25	
M	X	X	X	X	X	X	X	X	X	X	0	X	0	X	0	X	0	X	X	0	X	0	X	-	
Total	9	19	-	4	-	1	-	-	-	1	1	-	-	16	-	-	-	-	-	2	-	-	-	53	

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Table 39

Occurrence (absolute numbers) of the adults of *Stictochironomus affinis* Kieffer in light catches at various stations in 1966-1968.

months	1966			1967												1968			Total						
	II	IV	VI	VII	VIII	IX	X	XI	XII	I	II	IV	V	XI	XII	I	II	IV		V	VI	VII	VIII	IX	X
Station																									
A	0	X	X	X	X	0	0	X	0	X	X	X	0	X	0	X	0	0	X	0	X	0	X	0	-
D	0	0	0	X	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
KP	7	0	0	X	X	X	X	0	X	X	X	0	0	X	X	1	X	X	X	0	1	X	X	X	9
KK	6	12	X	336	233	22	X	9	X	1	X	26	0	5	4	X	1	0	4	0	X	1	X	X	660
Y	X	1	X	0	X	0	X	0	0	3	2	0	0	X	0	X	0	0	X	0	X	1	X	X	7
M	X	X	X	X	X	X	X	X	X	X	4	X	0	X	0	X	0	X	X	0	X	0	X	X	4
Total	13	13	-	336	233	22	-	9	-	4	6	26	-	5	4	1	1	-	4	-	1	2	-	-	680

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Table 41
 Occurrence of African mid-gut larvae in bottom samples at various stations in 1965-1968.

Station	AKOS-OMBO		DODI				KPANDU			KETE KRACHI			YEJI				AMPEM				AK	D	KP	KK	Y	A
	9	4	1	5	3	5	6	3	6	6	3	6	5	3	6	1	3	2	6	13	15	15	15	14	12	
Year	65	66	65	66	67	68	66	67	68	66	67	68	66	67	68	65	66	67	68	1965 - 1968						
organism																										
Tanypodinae	+	-	-	+	-	+	+	+	-	+	+	+	+	-	+	-	+	-	+	+	+	+	+	+	+	+
Cricotopus	-	-	-	-	-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	-	+	-	+	+	-	-
Chironomus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dirotendipes chloronotus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+
Dirotendipes multispinosus	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	+	+	+	+	-	+	+
Dirotendipes sp.1	-	+	+	+	-	-	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Dirotendipes sp.2	+	-	+	+	+	-	+	+	+	+	+	+	-	+	+	-	-	-	+	+	+	+	+	+	+	+
Endochironomus	+	-	+	+	+	+	+	-	+	+	+	+	+	-	+	-	-	-	-	+	+	+	+	+	+	-
Nilodorum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cryptochironomus lindneri	+	-	-	-	-	+	+	-	-	-	-	-	+	-	-	-	-	-	-	+	+	+	-	+	-	-
C. cf. dewulfianus	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+
C. nudiforceps	-	-	+	+	+	+	+	-	+	+	+	+	+	-	+	-	-	-	-	-	+	+	+	+	+	-
Polypedilum type 1	-	-	+	+	+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	-	+	+	+	+	+	-
Polypedilum sp. 1	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stictochironomus cafferarius	+	+	-	+	+	+	+	-	+	+	+	+	+	-	+	-	-	-	-	+	+	+	+	+	+	-
Tanytarsus nigrocinetus	-	-	-	-	+	+	+	+	+	+	-	-	-	+	+	-	-	-	+	-	+	+	+	+	+	+
T. cf. balteatus	-	-	-	-	+	+	+	+	+	+	+	+	-	-	+	-	-	-	-	-	+	+	+	+	+	-
T. group lauterborni sp.II	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	+
Cladotanytarsus pseudomanicus	-	-	+	+	+	+	+	+	+	+	+	+	-	-	+	-	-	-	-	-	+	+	+	+	+	-
TOTAL	9	7	12	14	14	15	17	13	15	16	15	16	13	7	13	4	6	6	11	12	19	17	17	17	11	

Table 42

Depth distribution of six major groups of bottom organisms in 1965, 1966 and 1968 at various stations, expressed as percentage abundance by number for each of the three depth zones (1-3m, 5-9m, and 11-25m).

AKOSOMBO					
Year	depth zone (m) organism	1 - 3	5 - 9	11 - 25	total
1965	Chironomidae	93.41	48.15	50.00	91.85
	Povilla adusta	0.00	0.00	0.00	0.00
	Trichoptera	0.00	0.00	0.00	0.00
	Oligochaeta	5.55	51.85	50.00	7.14
	Chaoboridae	0.00	0.00	0.00	0.00
	Other groups	1.04	0.00	0.00	1.01
	Total	96.54	3.01	0.45	100.00
1966	Chironomidae	91.94	97.18	0.00	93.84
	Povilla adusta	1.61	0.00	0.00	1.03
	Trichoptera	0.00	0.00	0.00	0.00
	Oligochaeta	6.45	2.82	0.00	5.13
	Chaoboridae	0.00	0.00	0.00	0.00
	Other groups	0.00	0.00	0.00	0.00
	Total	63.59	36.41	0.00	100.00
DODI					
1966	Chironomidae	73.56	70.24	77.41	73.02
	Povilla adusta	22.82	17.86	9.68	21.29
	Trichoptera	0.82	3.58	3.23	1.48
	Oligochaeta	0.66	2.39	6.45	1.24
	Chaoboridae	0.00	0.00	0.00	0.00

Table 4.2 (continued)

Year	depth zone (m)	DODI			Total
		1 - 3	5 - 9	11 - 25	
1966	Other groups	2.14	5.93	3.23	2.97
	Total	75.37	20.79	3.85	100.00
1968	Chironomidae	91.75	97.03	94.87	93.81
	Povilla adusta	2.12	0.42	0.00	1.29
	Trichoptera	4.95	1.28	0.85	3.22
	Oligochaeta	0.47	0.85	3.43	1.04
	Chaoboridae	0.00	0.00	0.00	0.00
	Other groups	0.71	0.42	0.85	0.64
	Total	54.64	30.28	15.08	100.00
		KPANDU			
1966	Chironomidae	74.25	45.60	40.00	64.55
	Povilla adusta	9.18	40.80	0.00	19.58
	Trichoptera	3.99	1.60	0.00	3.18
	Oligochaeta	6.79	5.60	20.00	6.48
	Chaoboridae	0.00	0.00	40.00	0.26
	Other groups	5.79	6.40	0.00	5.95
	Total	66.27	33.07	0.66	100.00
1968	Chironomidae	66.86	73.59	75.00	68.85
	Povilla adusta	14.86	15.09	0.00	13.93
	Trichoptera	8.57	5.66	12.50	8.20
	Oligochaeta	4.00	3.77	12.50	4.51
	Chaoboridae	0.00	0.00	0.00	0.00
	Other groups	5.71	1.89	0.00	4.51
	Total	71.72	21.72	6.56	100.00

Table 42 (continued)

KETE KRACHI					
Year	depth zone (m)	1 - 3	5 - 9	11 - 25	Total
1966	Chironomidae	50.00	73.98	88.24	61.05
	Povilla adusta	20.30	13.41	0.00	16.86
	Trichoptera	5.15	4.07	5.88	4.72
	Oligochaeta	15.76	5.69	5.88	11.30
	Chaoboridae	0.00	0.41	0.00	0.17
	Other groups	8.79	2.44	0.00	5.90
	Total	55.65	41.48	2.87	100.00
1968	Chironomidae	39.39	87.35	78.63	87.27
	Povilla adusta	2.55	0.63	0.00	1.73
	Trichoptera	3.82	5.06	5.13	4.29
	Oligochaeta	1.91	0.63	13.68	3.49
	Chaoboridae	0.21	5.06	2.56	1.61
	Other groups	2.12	1.27	0.00	1.61
	Total	63.14	21.18	15.68	100.00
YEJI					
1966	Chironomidae	81.96	59.72	43.90	71.40
	Povilla adusta	7.89	22.92	29.27	14.63
	Trichoptera	1.88	5.56	12.20	3.99
	Oligochaeta	4.89	10.42	14.64	7.54
	Chaoboridae	0.00	0.00	0.00	0.00
	Other groups	3.38	1.39	0.00	2.44
	Total	58.98	31.93	9.09	100.00

Table 42 (continued)

Year	depth zone (m) organism	1 - 3	5 - 9	11 - 25	Total
		YEJI			
1968	Chironomidae	92.61	89.94	86.26	91.17
	Povilla adusta	1.18	0.59	0.00	0.89
	Trichoptera	2.18	3.55	1.53	2.35
	Oligochaeta	2.18	1.78	4.58	2.46
	Chaoboridae	0.50	2.96	6.87	1.90
	Other groups	1.35	1.18	0.76	1.23
	Total	66.48	18.88	14.64	100.00
		AMPEM			
1966	Chironomidae	77.48	25.77	9.09	68.30
	Povilla adusta	0.00	0.00	0.00	0.00
	Trichoptera	0.00	0.00	0.00	0.00
	Oligochaeta	7.06	2.06	0.00	6.18
	Chaoboridae	5.92	69.08	90.91	17.12
	Other groups	9.54	3.09	0.00	8.40
	Total	82.91	15.35	1.74	100.00
1968	Chironomidae	52.86	87.92	25.00	61.49
	Povilla adusta	6.43	2.11	0.00	5.31
	Trichoptera	0.00	0.00	0.00	0.00
	Oligochaeta	7.65	1.51	62.50	6.44
	Chaoboridae	1.73	5.14	12.50	2.65
	Other groups	31.33	3.32	0.00	24.11
	Total	74.30	25.09	0.61	100.00

Table 4.3
Distribution of Chironomidae (adults) in light catches at various stations
1965-1968 (absolute numbers).

	VOLTA LAKE - SOUTH															VOLTA LAKE - NORTH															
	AMPEM			DODI*			KPANDU			KETE KRACHI			YEJI			MPAHA**															
	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens						
TANYPODINAE				16	0.24				0	0				5	0.31				73	0.58				23	0.78				5	1.08	
<i>Ablabesmyia appendiculata</i> Kieffer														3	5	0.04												1	2	0.43	
<i>A. dusoleili</i> Goetghebuer														5	11	0.09															
<i>A. pictipes</i> Kieffer														1	1	0.01															
<i>A. nilotica</i> Kieffer	+		4	14	0.20			+	+	2	5	0.31	+	10	55	0.43			+	4	9	0.31	+	1	3	0.65					
<i>A. melaleuca</i> Goetghebuer																			+	1	1	0.03									
<i>Tanypus fuscus</i> Freeman		+	1	1	0.02														+	2	4	0.14									
<i>Clinotanypus claripennis</i> Kieffer																			+	2	2	0.07									
<i>C. maculatus</i> Freeman		+	1	1	0.02																										
<i>Procladius maculosus</i> Freeman																			+	1	1	0.03									
<i>Procladius</i> sp. not identified																			+	1	6	0.20									
Tanypodinae not identified													+	1	1	0.01															

	VOLTA LAKE - SOUTH										VOLTA LAKE - NORTH																				
	AMPERI					DOMI*					KPANDU					KETE KRACHI					YEJI					MPAHA ^{XXX}					
	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	
CHIRONOMINAE				6723	98.02				207	62.72				1583	96.52				12436	96.55				2514	85.14				365	78.48	
CHIRONOMINI				6640	96.81				190	57.57				1570	95.72				10709	82.21				2341	79.28				353	75.89	
<i>Chironomus scotti</i> Kieffer	+	+	1	38	0.55																										
<i>C. transvaalensis</i> Kieffer		+	2	34	0.50							+	1	24	1.46		+	2	4	0.03		+	1	1	0.03						
<i>C. alluaudi</i> ? Kieffer	+		5	475	6.92						+	2	23	1.40		+	4	310	2.38		+	3	7	0.24		+	1	1	0.21		
<i>C. calipterus</i> Kieffer	+		2	3	0.04							+	+	2	2	0.01		+	1	2	0.07		+	+	1	8	1.72				
<i>C. formosipennis</i> Kieffer	+	+	8	23	0.34	+	+	3	62	18.79	+	+	9	126	7.68	+	+	24	1146	8.89	+	+	17	258	8.74	+	+	5	82	17.63	
<i>C. imicola</i> Kieffer		+	1	1	0.02	+		1	4	1.21	+	+	7	101	6.16	+	+	22	140	1.09	+		11	46	1.56	+		2	13	2.80	
<i>C. o.f. imicola</i> Kieffer																+		1	5	0.04											
<i>C. sp. not identified</i>																+		4	41	0.32	+		8	76	2.57						
<i>Dicortendipes sudanicus</i> Freeman	+	+	11	457	6.66	+		1	1	0.30	+	+	7	33	2.01	+	+	18	173	1.34	+	+	6	83	2.81	+		3	32	6.88	
<i>D. cordatus</i> Kieffer																						+		1	5	0.17					
<i>D. kribbikola</i> Kieffer												+	2	2	0.12	+	+	11	27	0.21	+	+	1	23	0.78						
<i>D. chloronotus</i> Kieffer	+	+	1	5	0.07						+	+	2	3	0.18	+	+	12	32	0.25	+	+	8	20	0.68			+	1	5	1.08
<i>D. multispinosus</i> Freeman	+	+	2	3	0.04	+		1	1	0.30	+	+	8	179	10.92	+	+	17	2535	19.55	+	+	6	22	0.75	+		1	1	0.21	

	VOLTA LAKE - SOUTH									VOLTA LAKE - NORTH																					
	AMPEM			DODI ^a			KPANDU			KETE KRACHI			YEJI			MPAHA ^{xx}															
	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens						
<i>Nilodermis brevivuoca</i> Kieffer	+	+	9	317	4.62	+		1	14	4.24	+	+	3	209	12.74	+	+	10	442	3.23	+	+	11	312	10.57	+	+	3	56	12.04	
<i>N. brevipalpis</i> Kieffer											+	+	1	61	3.72	+	+	1	1	0.01	+	+	6	19	0.64						
<i>N. fractilobus</i> Kieffer	+	+	9	4940	72.03	+	+	5	47	14.24	+	+	9	433	26.40	+	+	24	2943	22.60	+	+	18	836	28.30	+	+	5	141	30.32	
<i>N. rugosum</i> Kieffer	+		1	31	0.44								+	+	14	298	2.31	+	+	13	245	8.30	+	+	2	2	0.43				
<i>Xenochironomus trisetosus</i> Kieffer											+	+	1	58	3.54																
<i>Cryptochironomus lindneri</i> Freeman		+	1	1	0.02						+	+	1	15	0.92	+	+	14	174	1.25	+	+	5	39	1.32	+	+	1	1	0.21	
<i>C. diceras</i> Kieffer													+	3	0.05				7												
<i>C. forcipatus</i> Freeman	+	+	3	275	4.01		+	3	61	18.49	+	+	1	1	0.06	+	+	16	498	3.85	+	+	5	79	2.68	+	+	1	1	0.21	
<i>C. acutus</i> Goetghebuer	+	+	3	22	0.32													+	2	3	0.10										
<i>C. nudiforceps</i> Kieffer		+	1	1	0.02								+	+	6	21	0.16														
<i>C. sp.</i> not identified													+	2	0.01				2	0.01											
<i>Stenochironomus sp.</i> not identified													+	1	0.01				1	0.01											
<i>Polypedilum deletum</i> Goetghebuer																															

	VOLTA LAKE - SOUTH			DODI*			KPANDU			KETE KRACHI			VOLTA LAKE - NORTH			YEJI			MPAHA**							
	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	
<i>Polypedilum deletum</i> Goetghebuer																										
<i>P. longiorus</i> Kieffer	+	+	4	7	0.10						++	7	248	15.12	++	21	920	7.11	++	8	130	4.40	+	1	1	0.21
<i>P. griseoguttatum</i> Kieffer		+	1	1	0.02						++	3	42	2.56	++	12	107	0.83	++	5	91	3.08				
<i>P. fuscipennis</i> Kieffer											++	1	2	0.12					++	2	4	0.14				
<i>P. annulatum</i> Freeman	+	+	1	2	0.03						+	1	2	0.12	++	2	7	0.05	++	3	21	0.71				
<i>P. brunneicornis</i> Kieffer											++	3	10	0.08	++	3	10	0.08	++	3	21	0.71				
<i>P. dewulfi</i> Goetghebuer		+	1	4	0.06						+	3	3	0.02	+	3	3	0.02					+	2	2	0.43
<i>Pentapedilum wittei</i> Freeman																+	1	1	0.01							
<i>Stictochironomus cafferarius</i> Kieffer											+	3	8	0.49	++	18	761	5.79	++	4	8	0.27	+	1	4	0.86
<i>Lauterborniella fuscoguttata</i> Kieffer											+	2	3	0.02	+	2	3	0.02								
TANYTARSINI				83	1.21			17	5.15				13	0.80			1727	13.34			173	5.86			12	2.59
<i>Tanytarsus nigrocinotus</i> Freeman															+	3	13	0.10								
<i>T. sariae</i> ? Freeman															++	2	62	0.46								
<i>T. sp.</i> not identified	+		2	9	0.13						+	3	7	0.43	++	16	548	4.22	++	4	100	3.39	++	2	7	1.51

Table 43 (continued)

	VOLTA LAKE - SOUTH									VOLTA LAKE - NORTH															
	AMPEN			DODI [*]			KPANDU			KETE KRACHI			YEJI			MPAHA ^{xx}									
	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens	♀	♂	No. of samples	Abs. No. of specimens	% total specimens
<i>Cladotanytarsus pseudomancus</i> Goetghebuer	+	+	6	74	1.08	+		1	17	5.15	+	+	15	1096	8.50	+	+	4	73	2.47	+	+	2	5	1.08
<i>C. reductus</i> ? Freeman													2	8	0.06										
not identified			11	119	1.74			1	123	37.28			9	52	3.17			14	416	14.08			3	95	20.44
Total				6858	100.00				330	100.00				1640	100.00				2953	100.00				465	100.00

* Sampling period February 1966 - January 1967

xx Sampling period February 1967 - August 1968

For number of sampling days and months see Table XIII.

	GHANA		WEST AFRICA	LAKE CHAD
	Volta Lake	Nungua (Thomas, 1966)	(Freeman, 1955, 1956a, 1956b, 1957a, 1958, 1961)	(DeJoux 1968a)
<i>Dicortendipes sudanicus</i> Freeman	+			+
<i>D. cordatus</i> Kieffer	+			+
<i>D. kribbicola</i> Kieffer	+	+	Cameroun	+
<i>D. chloronotus</i> Kieffer	+		Ghana, Nigeria, Dahomey, Upper Volta, Senegal	+
<i>D. multispinosus</i> Freeman	+		Upper Volta.	+
<i>Nilodorum brevibuca</i> Kieffer	+	+	Senegal	+
<i>N. brevipalpis</i> Kieffer	+			+
<i>N. fractilobus</i> Kieffer	+	+		+
<i>N. rugosum</i> Kieffer	+	+	Mali	+
<i>Xenochironomus trisetosus</i> Kieffer	+			+
<i>Cryptochironomus lindneri</i> Freeman	+	+		+
<i>C. diceras</i> Kieffer	+		Nigeria, Upper Volta	+
<i>C. forcipatus</i> Freeman	+	+		+
<i>C. acutus</i> Goetghebuer	+		Nigeria	+
<i>C. nudiforceps</i> Kieffer	+	+		+
<i>Polypedilum deletum</i> Goetghebuer	+		Ghana, Nigeria	+
<i>P. longiorus</i> Kieffer	+		Ghana	+
<i>P. griseoguttatum</i> Kieffer	+		Ghana, Cameroun	+
<i>P. fuscipenne</i> Kieffer	+		Ghana, Senegal	+
<i>P. annulatum</i> Freeman	+		Nigeria, Senegal	+
<i>P. brunneicornis</i> Kieffer	+			+
<i>P. dewulfi</i> Goetghebuer	+		Nigeria	+

Table 44. (continued)

	GHANA		WEST AFRICA	LAKE CHAD
	Volta Lake	Nungua (Thomas, 1966)	(Freeman, 1955, 1956a, 1956b, 1957a, 1958, 1961)	(Dejoux 1968a)
<i>Pentapedilum wittei</i> Freeman	+		Nigeria, Upper Volta, Senegal	
<i>Stictochironomus cafferarius</i> Kieffer	+	+	Cameroun	+
<i>Lauterborniella fuscoguttata</i> Kieffer	+		Nigeria, Upper Volta	+
Tanytarsini				
<i>Tanytarsus nigrocinctus</i> Freeman	+		Nigeria, Upper Volta	+
<i>T. zariae</i> ? Freeman	+		Ghana, Nigeria	+
<i>Cladotanytarsus pseudomanous</i> Gostghebuer	+	+	Ghana, Nigeria	+
<i>C. reductus</i> Freeman	+		Upper Volta	+

Table 45

Periphytic invertebrates of flooded trees at various stations in 1967-69, standing crop in mg.

Organism	Stations	1	2	3	4	5	6	7	8	9	Total	% total standing crop
Oligochaeta		0.1	1.2			2.4	93.0		0.1		96.8	0.206
Naididae		0.1	1.2			2.4	93.0		0.1		96.8	0.151
Hirudinea						2.0			33.2		35.2	0.055
Crustacea						3.5				0.4	3.9	0.004
Ostracoda						1.0				0.4	0.5	0.001
Conchostraca												
Cycloletheria hislopi						2.5					2.5	0.003
Hydracarina						0.5					0.5	0.001
Ephemeroptera		617.9	17100.0	3800.0	302.1	2545.3	19500.0	9400.0	1600.0	3204.9	58070.2	90.423
Proclouson						1.0					1.0	0.002
Povilla adusta		617.9	17100.0	3800.0	302.1	2544.3	19500.0	9400.0	1600.0	3204.9	58069.2	90.421
Odonata			29.0			23.0					52.0	0.081
Zygoptera			29.0			23.0					52.0	0.081
Trichoptera		10.9	129.7	18.5		132.5	4338.5	89.7	21.5	24.9	4766.2	7.428
Orthotrichia						1.0				0.5	0.5	0.009
Ecnemus		10.9	129.7	5.0		15.0	386.2	89.7	21.5	24.4	682.4	1.062
Amphipyche				13.5		116.5	3952.3				4082.3	6.357

Table 45 (continued)

Organism	Station	1	2	3	4	5	6	7	8	9	Total	% total standing crop
Coleoptera			1.5	52.0		5.2	245.5	5.5		14.4	324.1	0.502
Potamodytes										14.4	14.4	0.022
Hydroptilidae						5.2					5.2	0.006
Coleoptera not identified			1.5	52.0			245.5	5.5			304.5	0.474
Diptera		39.6	313.0		42.6	60.4	343.5	27.0	6.1	26.1	858.3	1.336
Chironomidae		39.6	309.5		42.6	60.4	249.5	20.5	5.9	26.1	754.1	1.174
Chironomidae larvae		33.1	273.5		38.3	51.5	151.0	20.5	5.9	24.9	598.7	0.932
Chironomidae pupae		6.5	36.0		4.3	8.9	98.5			1.2	155.4	0.242
Ceratopogonidae			3.5				94.0	6.5	0.2		104.2	0.162
Mollusca						11.8					11.8	0.019
Gastropoda						11.8					11.8	0.019
Anisus coretus						1.0					1.0	0.002
Bulinus truncatus						10.8					10.8	0.017
TOTAL		668.5	17574.4	3870.5	344.7	2786.6	24520.5	9522.2	1660.9	3270.7	63219.0	100.000

No	Station	Date	No	Station	Date	No	Station	Date
1	Ampem	21.6.1968	4	Kpandu	8.4.1967	7	Kete Krachi	9.5.1969
2	Ampem	13.5.1969	5	Kpandu	19.12.1967	8	Yeji	10.5.1969
3	Dodi	7.5.1969	6	Kpandu	8.5.1969	9	Mpeha	16.6.1968

Table 46

Periphytic invertebrates of flooded trees at various stations in 1967-1969, abundance by number of organisms (absolute numbers). Stations as in Table 45.

Organism	Station	1	2	3	4	5	6	7	8	9	Total	Percentage occurrence	Percentage total organisms collected
Oligochaeta		2	4			6	3		1		16	55.5	0.35
Naididae		2	4			6	3		1		16	55.5	0.25
Hirudinea						3			3		6	22.2	0.10
Crustacea						7				1	8	22.2	0.13
Ostracoda						4				1	5	22.2	0.08
Conchostraca						3					3	11.1	
Cyclostheria hislopi						3					3	11.1	0.05
Hydracarina						1					1	11.1	0.02
Ephemeroptera		75	1592	189	173	485	1313	478	53	114	4472	100.0	75.97
Proclouson						1					1	11.1	0.02
Povilla adusta		75	1592	189	173	484	1313	478	53	114	4471	100.0	74.95
Odonata			1			1					2	22.2	0.03
Zygoptera			1			1					2	22.2	0.03
Trichoptera		5	58	4		16	661	44	9	11	808	88.9	13.55
Orthotrichia						1				1	2	22.2	0.03
Ecnomus		5	58	2		7	164	44	9	10	299	88.9	5.02
Amphipsyche				2		8	497				507	33.3	8.50

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Table 46 (continued)

Organism	Station	1	2	3	4	5	6	7	8	9	Total	Percentage occurrence	Percentage total organisms collected
Coleoptera			1	7		4	16	3		1	32	66.7	0.54
Potamodytes										1	1	11.1	0.02
Hydroptilidae						4					4	11.1	0.07
Coleoptera not identified l.+im.			1	7			16	3			27	44.4	0.45
Diptera		19	201		41	75	193	53	6	26	614	88.9	10.29
Chironomidae		19	181		41	75	181	16	4	26	543	88.9	9.10
Tanypodinae			1		2					3	6	33.3	0.10
Ablabesmyia			1		2					3	6	33.3	0.10
Orthocladinae							20				20	11.1	0.34
Cricotopus							20				20	11.1	0.34
Chironomini		19	180		39	75	161	16	4	23	517	88.9	8.66
Chironomus						2					2	11.1	0.03
Nilodorum		16	158		37	34	4	11	3	22	285	88.9	4.78
Dicrotendipes chleronotus						15					15	11.1	0.22
Dicrotendipes sp.1.			3								3	11.1	0.05
Dicrotendipes sp.2.			2				49	41			52	33.3	0.87
Endochironomus						2					2	11.1	0.03
Polypedilum type 1						15	95	4	1		114	44.4	1.91
Chironomini pupae		3	17		2	9	14			1	46	66.7	0.77

Table 46 (continued)

Organism	Station	1	2	3	4	5	6	7	8	9	Total	Percentage occurrence	Percentage total organisms collected
Ceratopogonidae			20				12	37	2		71	44.4	1.19
Mollusca						7					7	11.1	0.12
Gastropoda						7					7	11.1	0.12
Anisus coretus						1					1	11.1	0.02
Bulinus truncatus						6					6	11.1	0.10
TOTAL		101	1857	200	214	605	2186	578	72	153	5966		100.00

Table 47

Abundance (no./m²) and standing crop (mg/m²) of the bottom fauna of the Great Volta River rapids at different current velocities.

Organism	ABUNDANCE				STANDING CROP			
	Current velocity in cm/sec				Current velocity			
	5	20 - 40 ^m	75	140	5	20 - 40 ^m	75	140
Oligochaeta	66				10.9			
Plecoptera	11	201		22	181.8	1138.8		278.1
<i>Neoperla spio</i>	11	201		22	181.8	1138.8		278.1
Ephemeroptera	1041	4703	1995	2740	1931.6	3928.4	3625.6	4453.4
Baetidae								
<i>Baetis sp.1.</i>	33	296	121	88	19.7	212.4	87.6	111.7
<i>Pseudocloson sp.1</i>		40	99	121		16.8	82.1	173.0
<i>Acentrella</i>				77				40.5
<i>Baetidae sp. 1</i>	22	18		88	19.7	27.7		60.2
Heptageniidae								
<i>Afronurus sp.1</i>	11		55		87.6		154.4	
<i>Afronurus sp.2</i>		139				343.1		
Leptophlebiidae								
<i>Choroterpes (Euthraulius)</i>	723	66	307	77	1300.1	41.6	240.9	39.5
<i>Thraulius</i>	22		11		76.7		16.4	
<i>Leptophlebiidae sp.1</i>	33	26			24.1	14.6		
Tricorythidae								
<i>Tricorythus</i>	22	621	1095	1654	190.5	1315.8	2923.7	3590.5

Table 4.7 (continued)

	ABUNDANCE				STANDING CROP			
	Current velocity in cm/sec							
	5	20 - 40 ^m	75	140	5	20 - 40 ^m	75	140
Caenidae								
Caenidae sp.1	164	3493	307	635	87.6	1954.6	120.5	438.0
Prosopistomatidae								
Prosopistoma	11	4			8.8	1.8		
Odonata								
Zygoptera	44	44	33	22	1179.3	3465.7	8501.5	5438.8
Anisoptera sp.1, 2, 3	33		11		856.3		317.5	
Trichoptera	11	44	22	22	323.0	3465.7	8184.0	5438.8
Philopotamidae								
Chimarra	343	1332	2170	7206	655.9	5215.1	6507.6	30835.2
Ecnomidae								
Ecnomus sp.1		15		11		18.3		18.6
sp.2	321				652.6		186.2	
sp.3			77					
Hydropsychidae								
Aethaloptera dispar l+p.		131	187		787.9	787.9	3087.9	
Macronema sp.1				219				14116.7

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Table 17 (continued)

Organism	ABUNDANCE				STANDING CROP			
	5	Current velocity in cm/sec		140	5	Current velocity		140
		20 - 40*	75		5	20-40*	75	
<i>Cheumatopsyche digitata</i>			22				34.2	
<i>Cheumatopsyche</i> sp.1		854	1686	6625		2630.2	2769.0	14039.1
<i>Cheumatopsyche</i> sp.2		11				35.4		
<i>Protamaeronema</i>		197	33	197		1690.0	304.4	2534.9
Leptoceridae								
<i>Pseudoleptocerus</i> sp.1	22	124	154	121	3.3	53.3	117.5	76.4
<i>Pseudoleptocerus</i> sp.2			11				8.4	
Coleoptera	198	242	274	482	244.3	94.2	359.2	1702.8
Dryopidae								
<i>Potamocheilus</i>	22				62.4			
<i>Potamocheilus</i>	11				70.1			
<i>Stenelmis</i>	55	88	33	252	27.4	29.2	21.9	124.9
<i>Stenelmis</i> im.				11				16.4
<i>Pachyelmis</i>	99	106	2.9	186	35.1	41.3	82.1	59.1
<i>Pachyelmis</i> im.			11	11			3.3	4.4
<i>Microdinotes</i>		4				2.2		
Gyrinidae			11	11			251.9	1478.3
Dytiscidae				11				19.7
<i>Dytiscidae</i> im.	11	44			49.3	21.5		

Table 47 (continued)

Organism	ABUNDANCE				STANDING CROP			
	Current velocity in cm/sec.				Current velocity			
	5	20 - 40*	75	140	5	20 - 40*	75	140
Lepidoptera			11	11			26.3	59.1
Pyralididae			11	11			26.3	59.1
Diptera	372	205	449	395	156.6	273.5	153.3	190.5
Tipulidae l. + p.	11		22	66	13.1		8.8	96.5
Leptidae		18				213.2		
Simuliidae		4				1.5		
Chironomidae	361	157	427	285	143.5	35.4	144.5	59.1
Chironomidae p.		11		44		9.5		32.9
Diptera l. + not identified		15				13.9		
Lamellibranchia			11				11878.6	
Etheria elliptica			11				11878.6	
TOTAL	2075	6727	4932	10878	4459.0	14115.7	19173.5	42957.9

Note: *area sampled: 2739cm²; for other current velocities the area sampled was 913 cm² in each.
 The weight (standing crop) of Leptoceridae is given without cases; Lamellibranchia are not included into Total.
 All organisms are larvae, unless otherwise indicated; p. = pupa, im. = imago, l. = larva.