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Table 8-1 The relation between the number of earthworm and the thickness of worm cast

	A	1/A	B	r
1973/4/20	24.18	0.414	0.0157	0.889
1973/5/10	14.89 (21.38)	0.07 (0.037)	0.143 (0.221)	0.834 (0.739)
1972/6/8	4.86	0.2058	0.499	0.849
1973/6/15	6.1	0.1639	0.665	0.812
1972/6/19	6.01	0.1664	0.7658	0.911
1972/6/30	5.08	0.1967	1.1167	0.767
1972/7/15	9.92	0.1008	0.8306	0.257

Table 8-2 The humidity, and the density of wormcast

date		1973 5 20	1973 6 24
Thin wormcast (0-1cm)	humidity (%)	8.4	3.6
	density (g DW cm ⁻³)	0.289	0.426
Thick wormcast (0-1 cm)	humidity (%)	17.9	9.1
	density (g DW cm ⁻³)	0.312	0.38
Thick wormcast (deeper than 1cm)	humidity (%)	42.1	23.1
	density (g DW cm ⁻³)	0.346	0.411
Average density (g DW cm ⁻³)		0.3155	0.4055

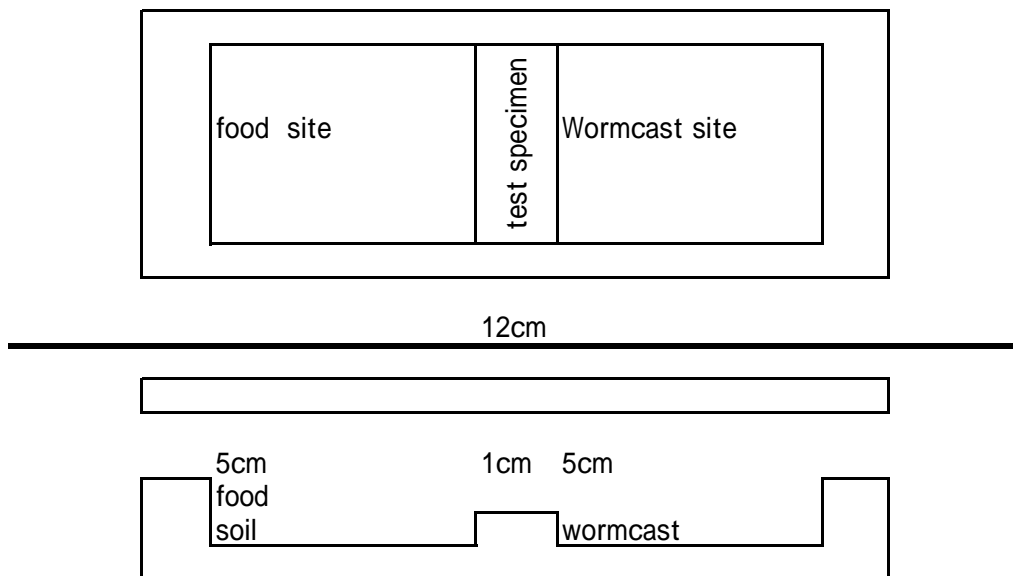


Fig. 8-1 The observation box for habitat selection of earthworm

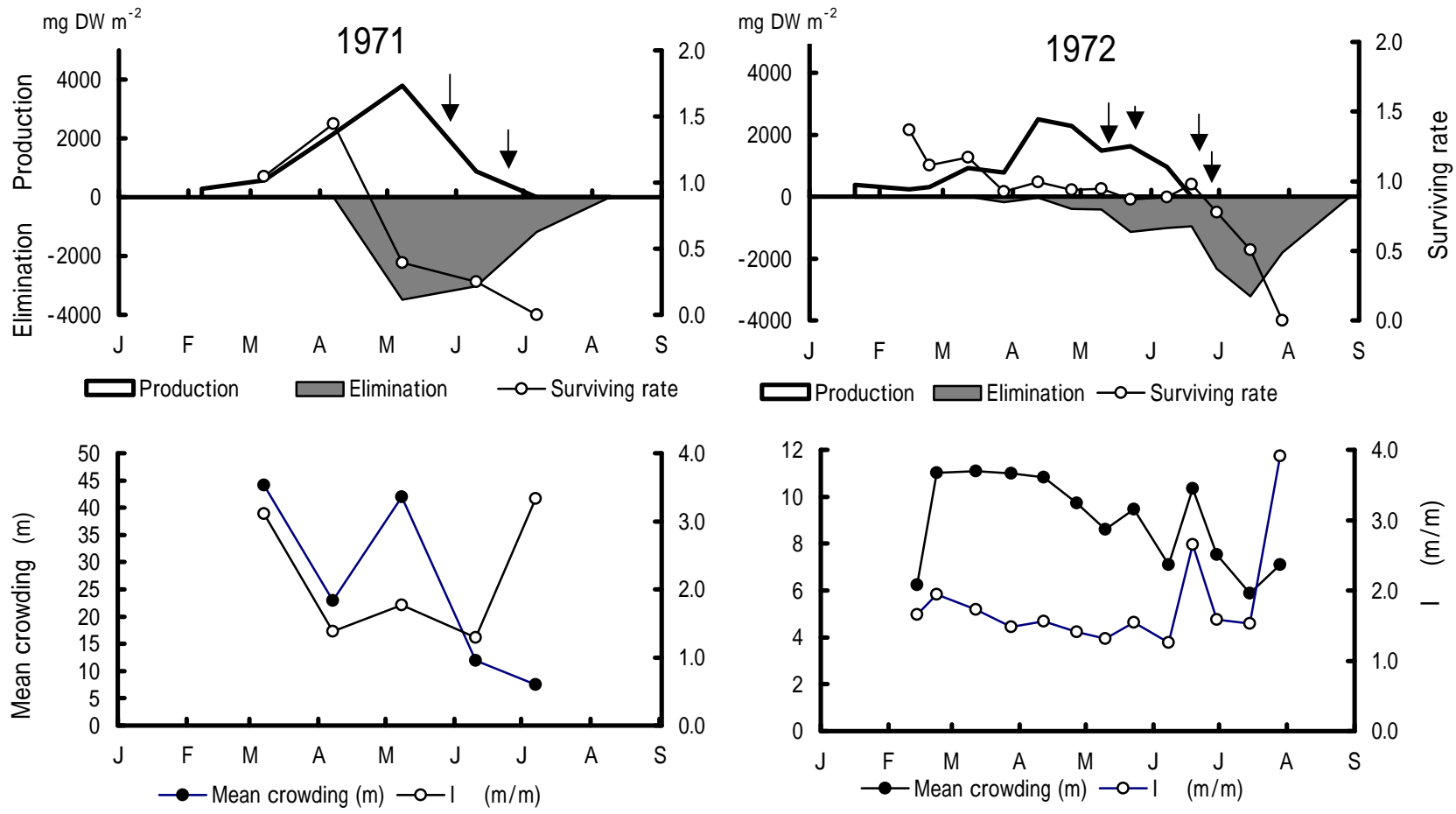


Fig. 8-2. Seasonal change in the distribution pattern of individuals of field population. In upper figure, the open circle indicate the surviving rate and open area indicate the production and black area indicate the elimination, of the population and the arrow line indicate the conspicuous outbreak of the simultaneously death of earthworm on fine days after rain. In lower figure, open circles indicate the value of I (m/m) and black circles indicate the value of mean crowding (m).

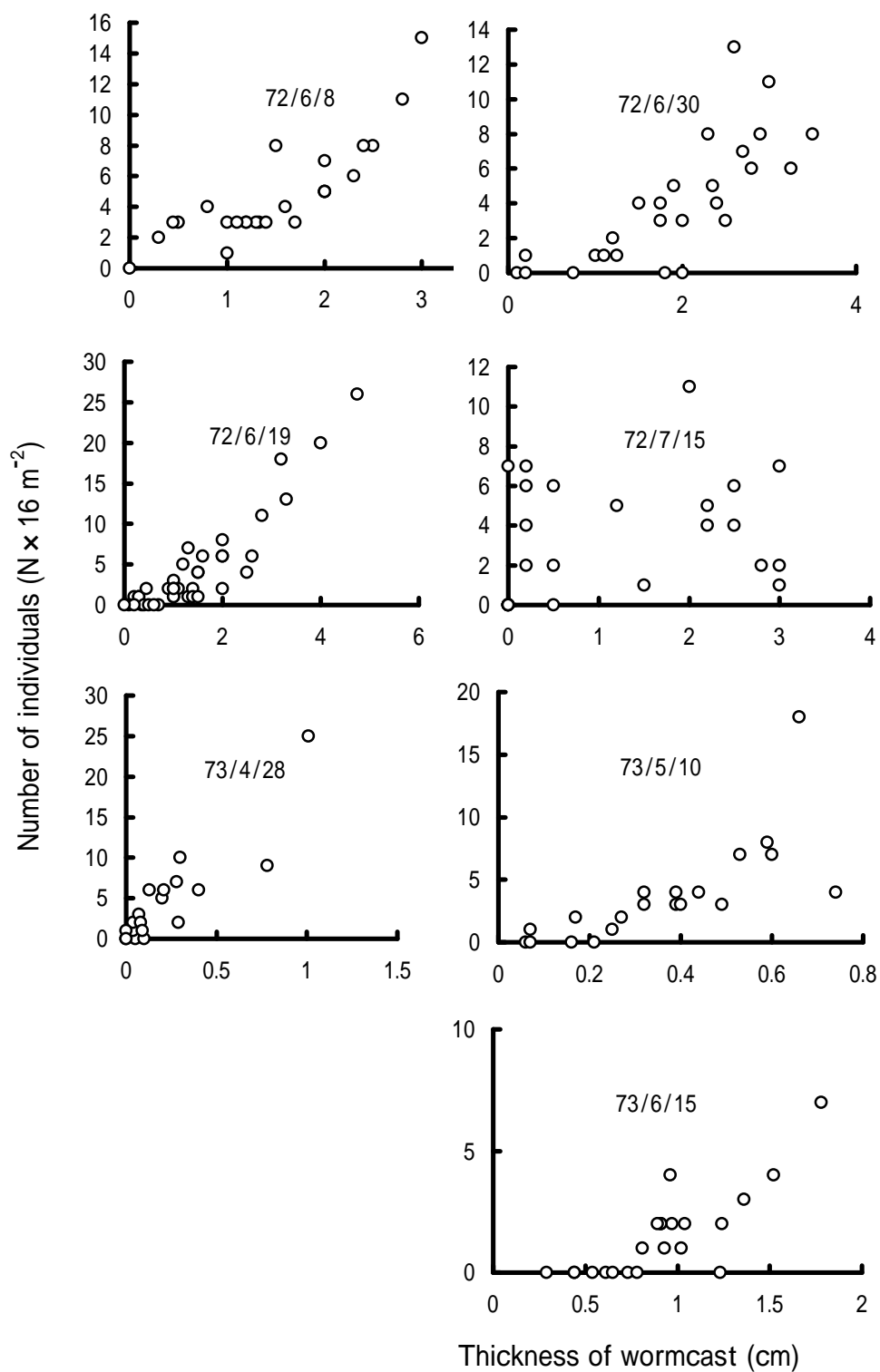


Fig. 8-3. The relation ship between number of individual and thickness of wormcast

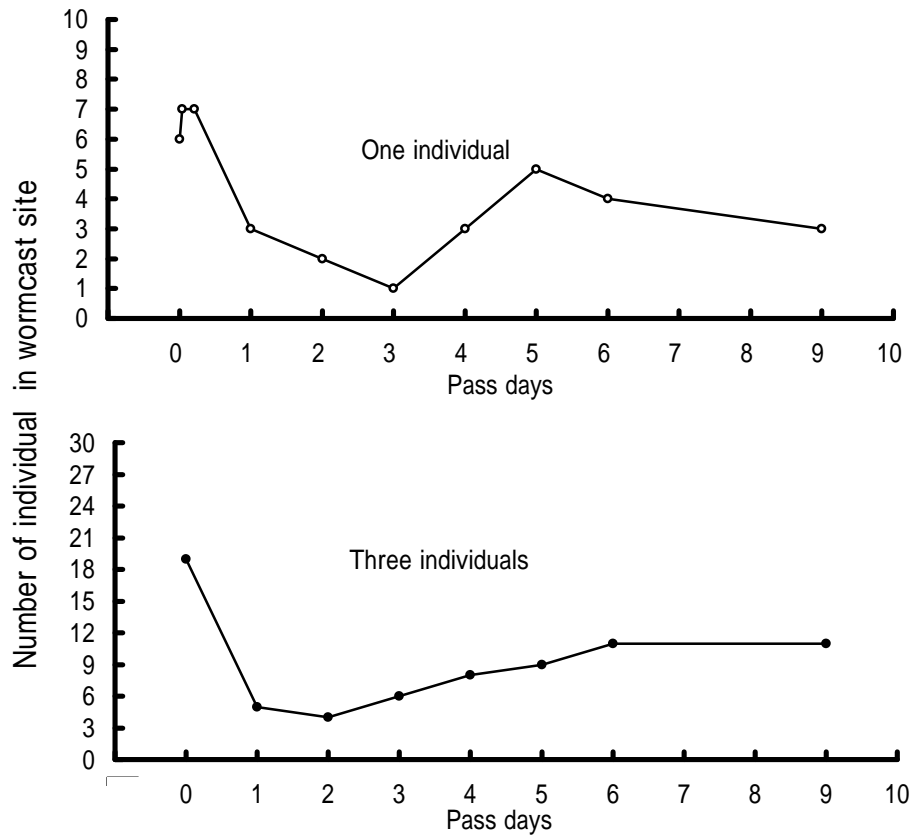


Fig. 8-4. Habitat selection of *Amynthus* sp. (H-1). Upper figure indicate the result of test with one individual and Lower figure indicate the result of test with three individuals.

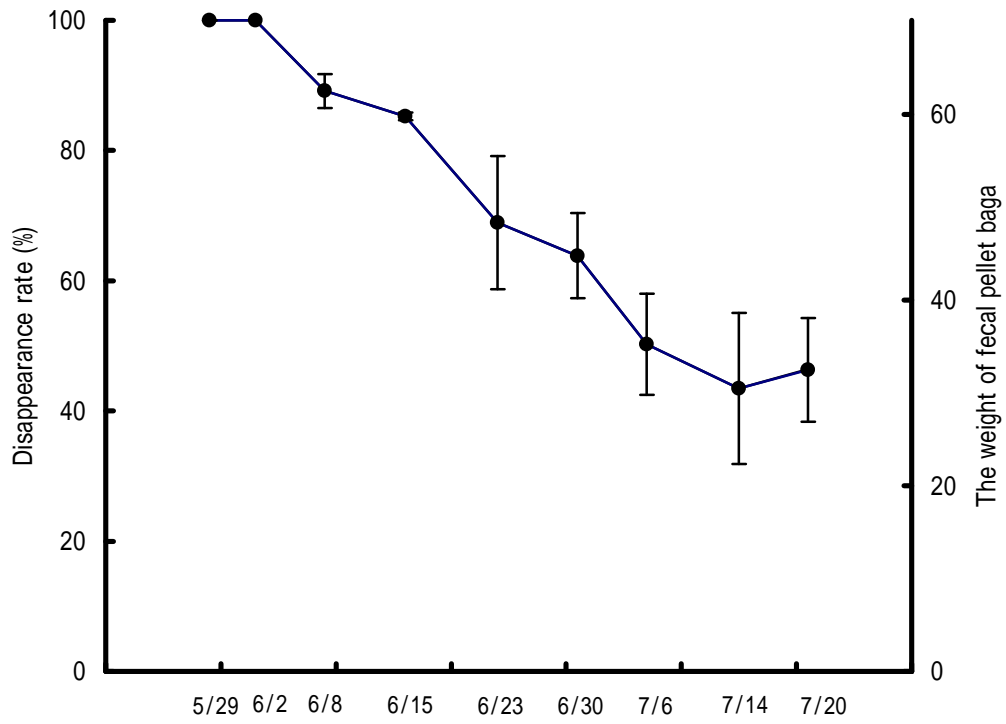


Fig. 8-5. Disappearance rate of the worm cast

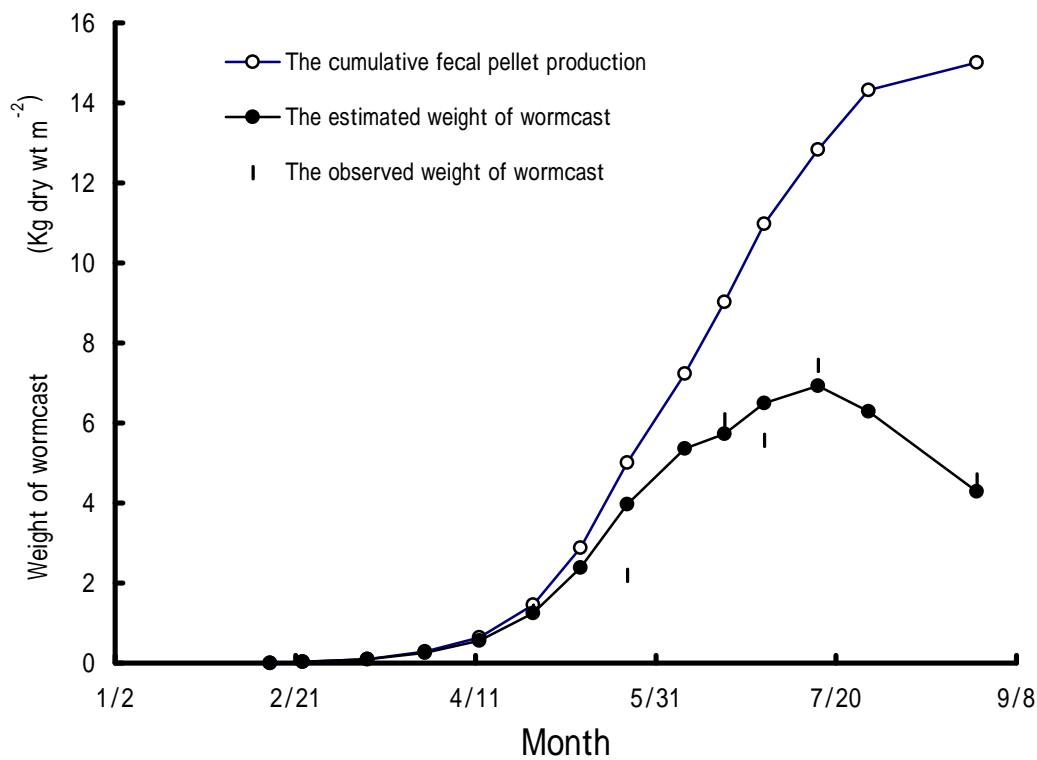


Fig. 8-6. Seasonal change in the cumulative fecal pellet production of *Amynthus* sp. (H-1), and in the estimated and observed weight of the wormcast in area D 1972.

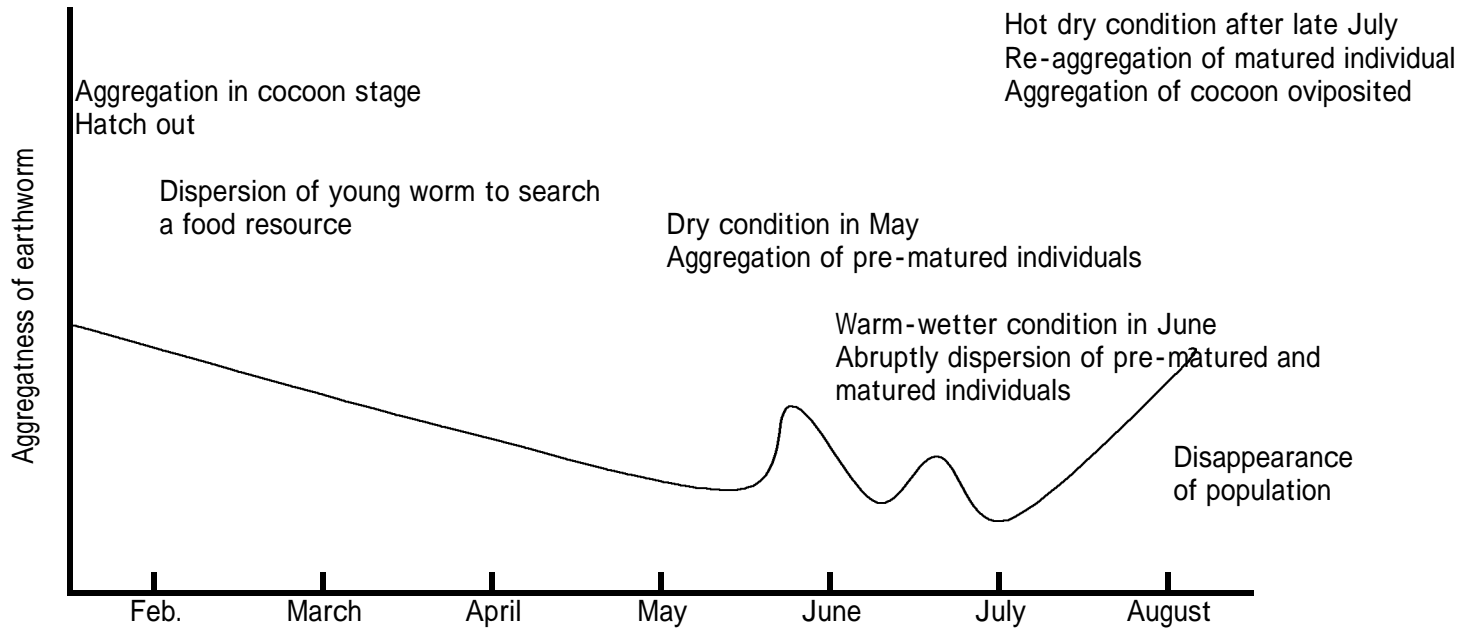


Fig. 8-7. The seasonal change in the degree of aggregation of *Amynthus* sp. (H-1) in relation to own's life history.

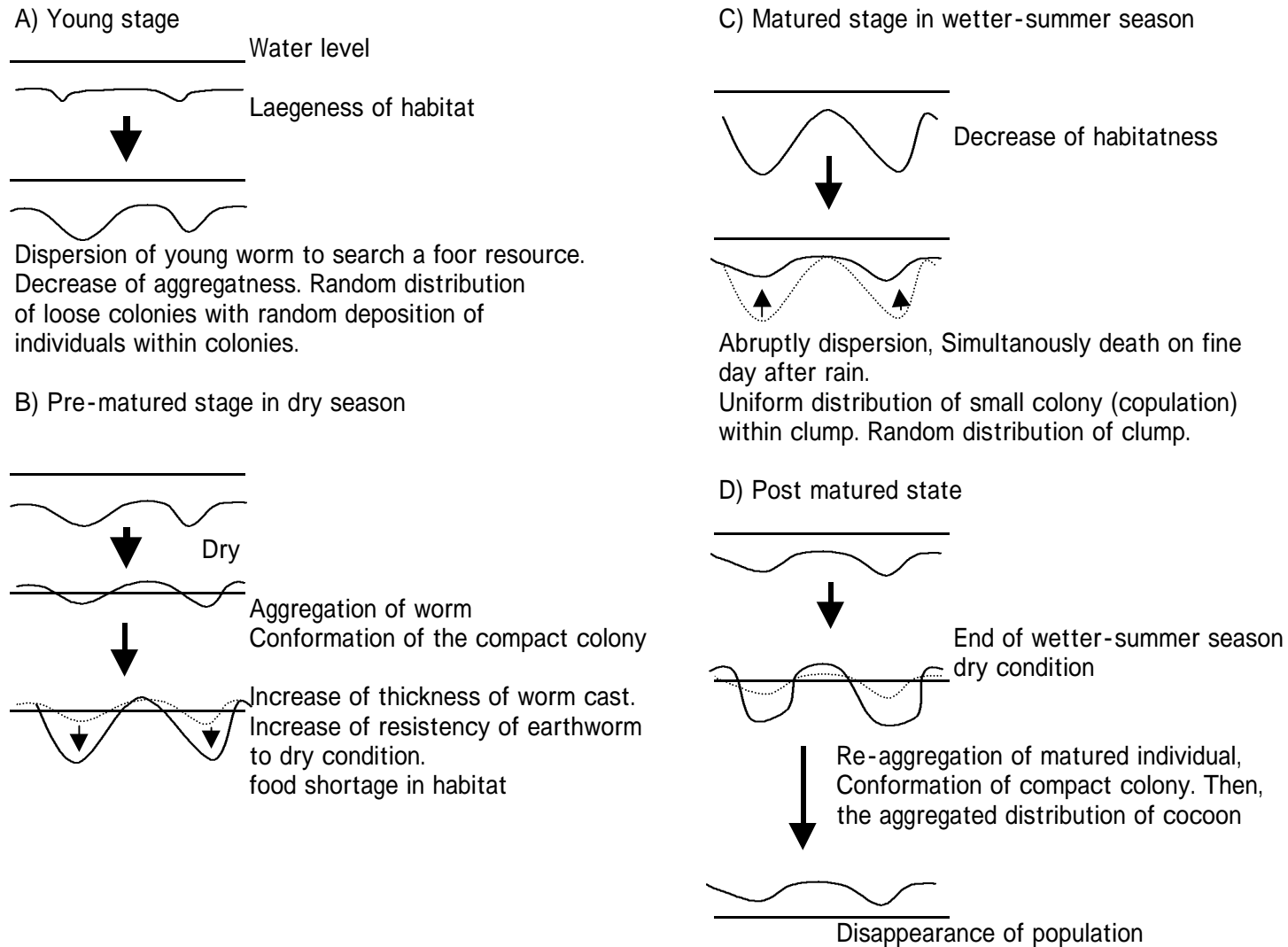


Fig. 8-8. The structure of habitat and the distribution pattern of earthworm ; *Amynthas* sp. (H-1).