

Schiffer, Butzer, Archaeology as Human Ecology

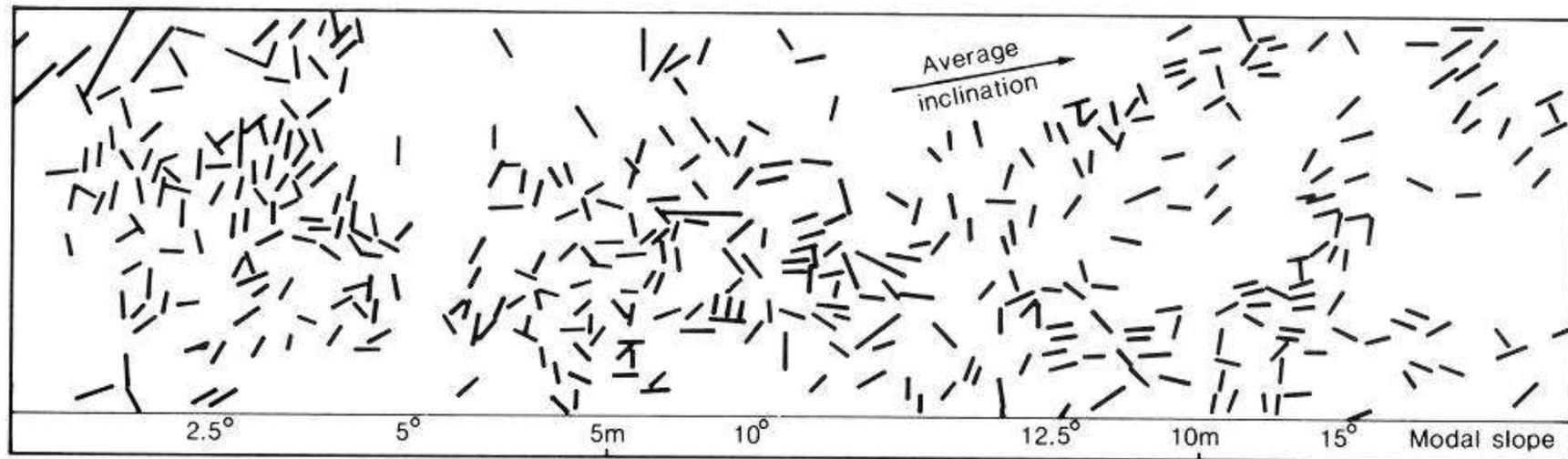
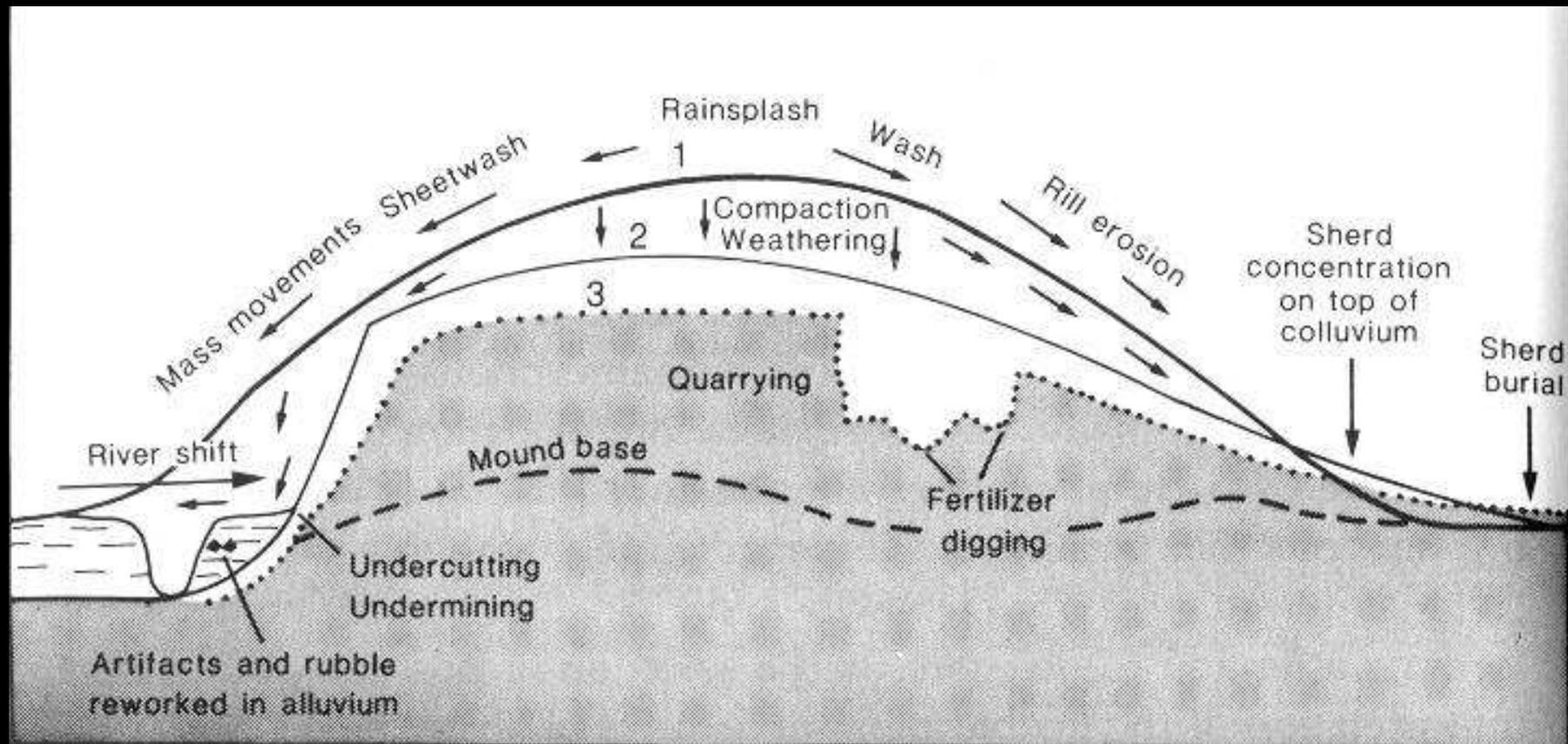
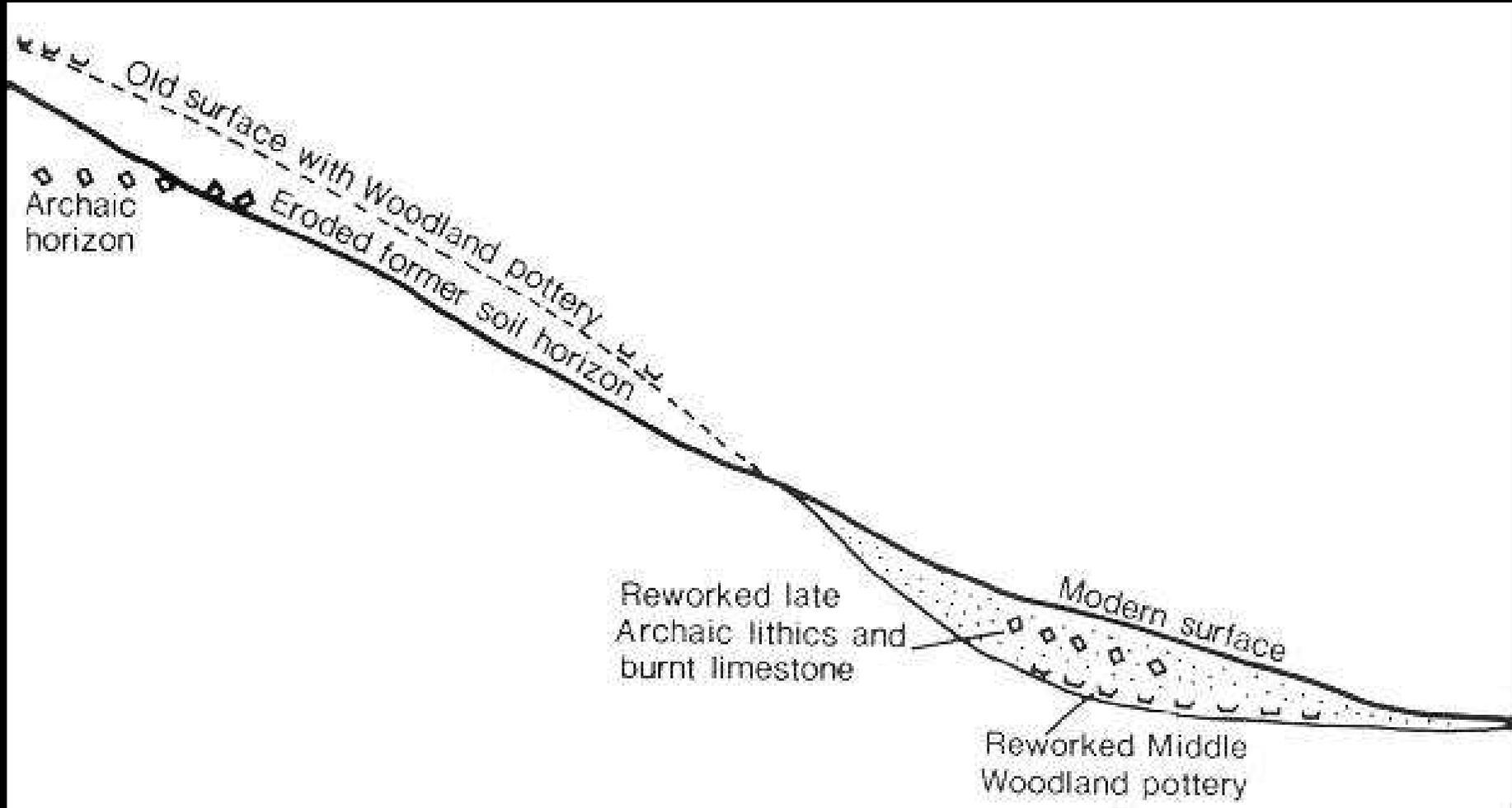
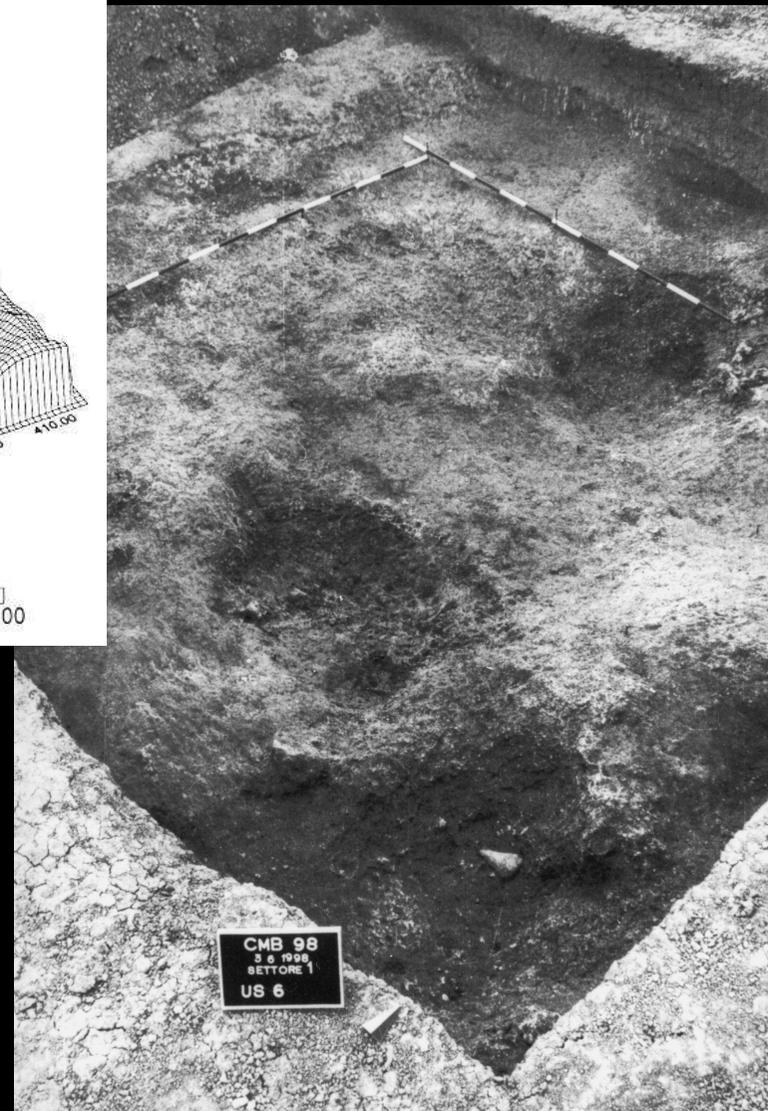
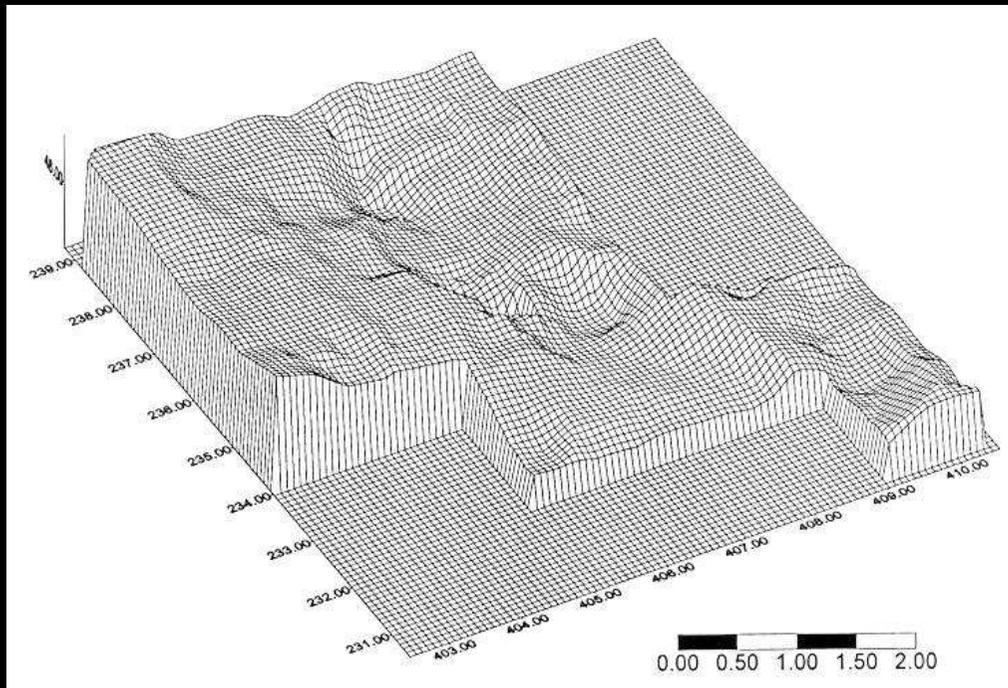
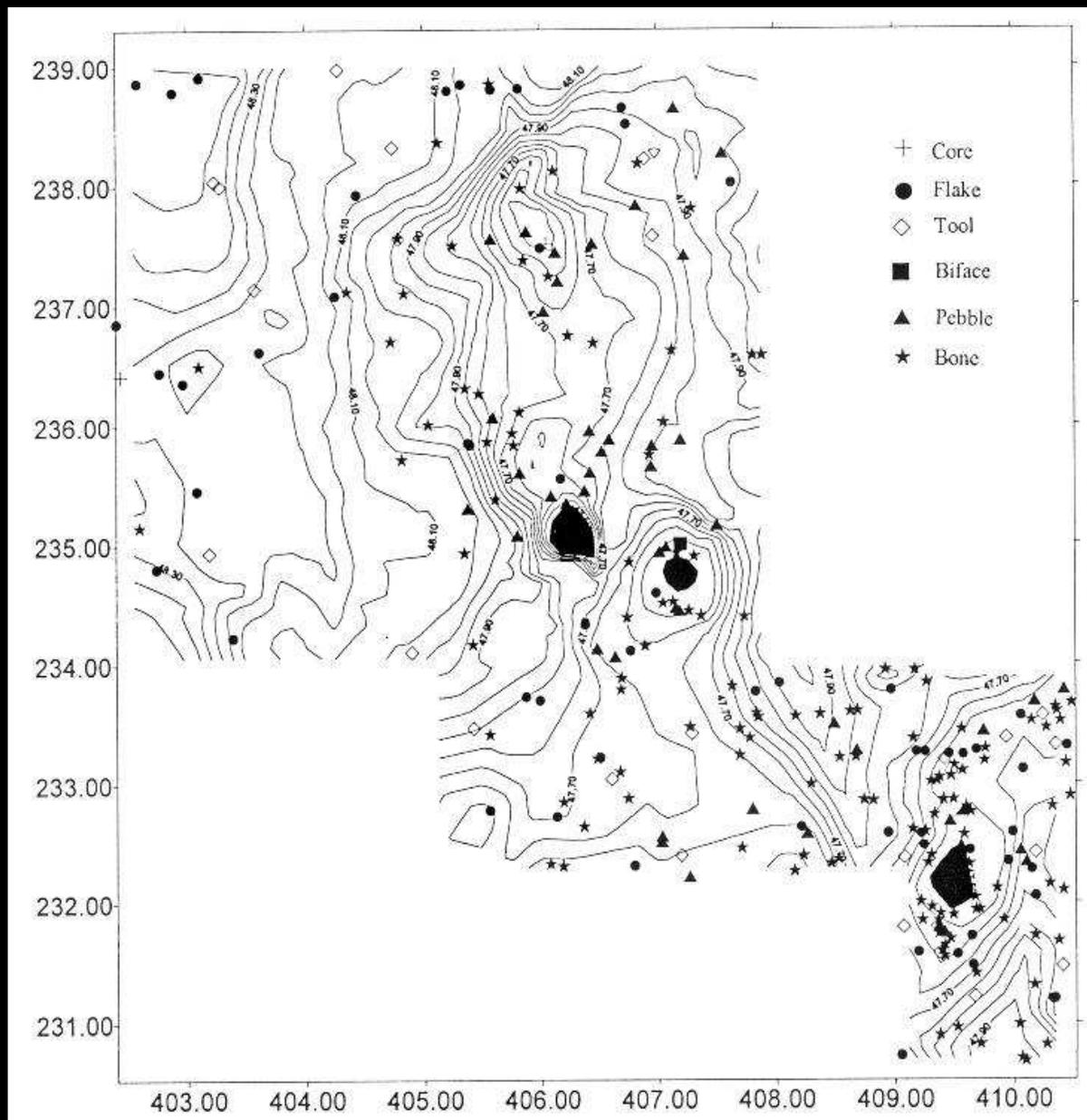


Figure 7-4. Orientation of rocks (> 10 cm major axis) according to slope. Plan view of the lowest archaeological levels, Acheulian site of Torralba, Spain (1,100 m) (composite, not to scale, and generalized). Mid-Pleistocene soil frosts arranged stones into rings on level ground and garlands on intermediate slopes, with diffuse downslope orientation on steeper gradients.









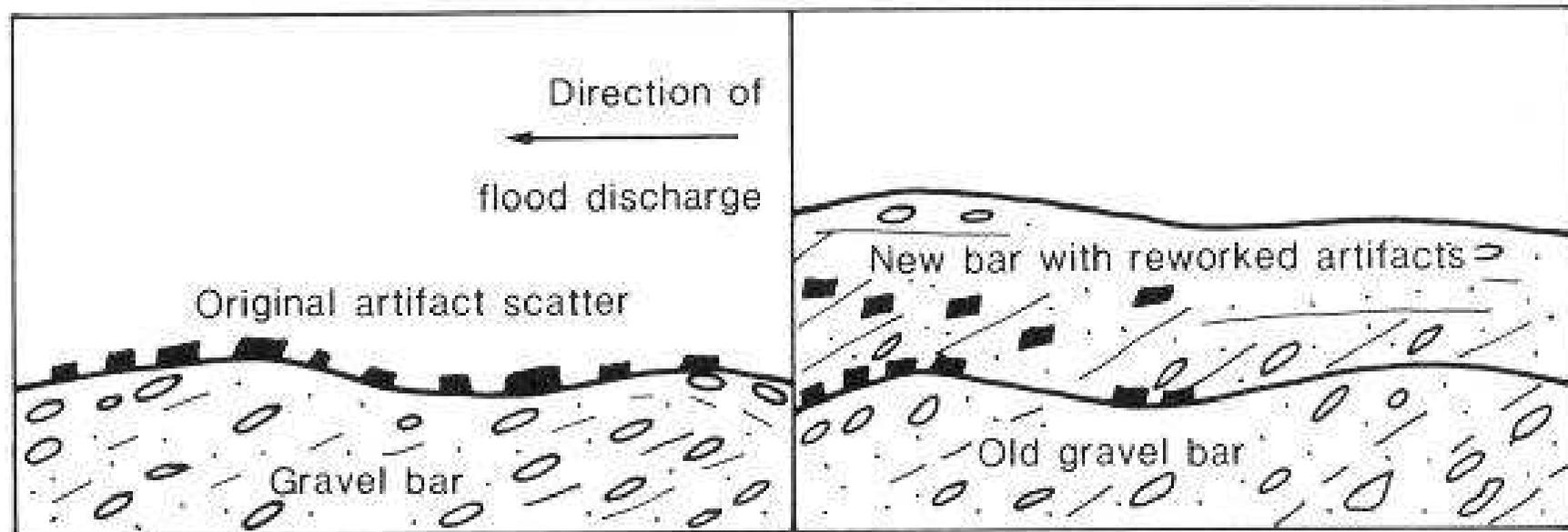


Figure 7-1. Dispersal and secondary bedding of gravel-bar workshop site.

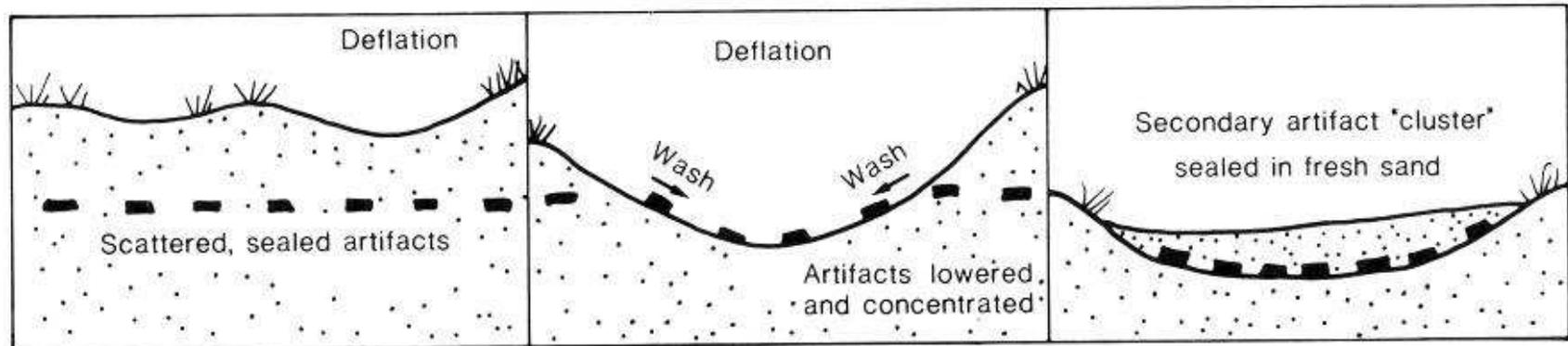
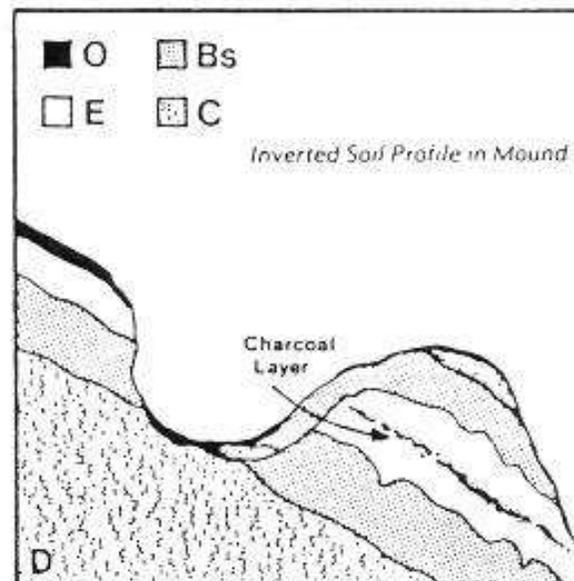
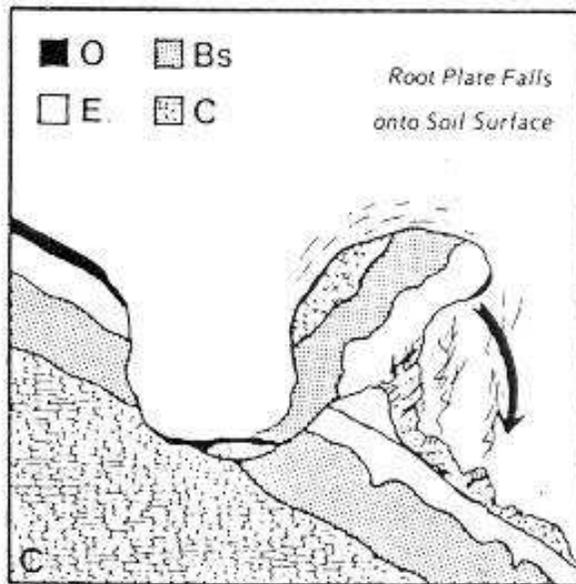
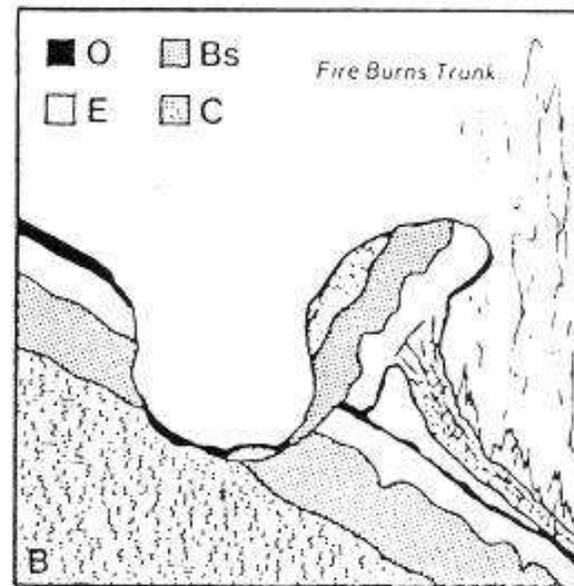
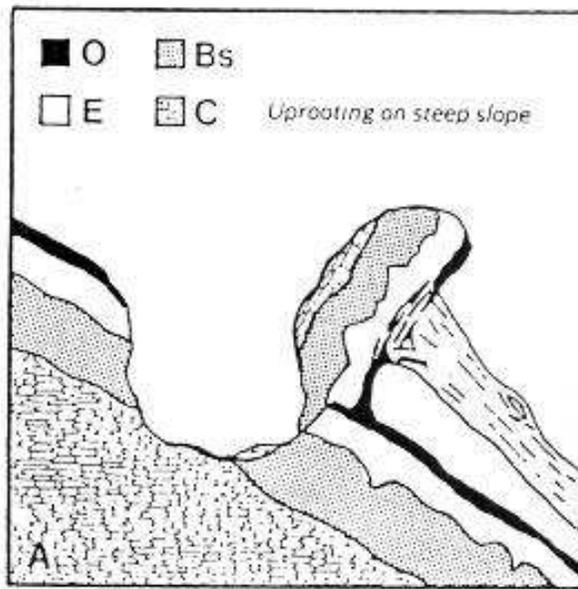
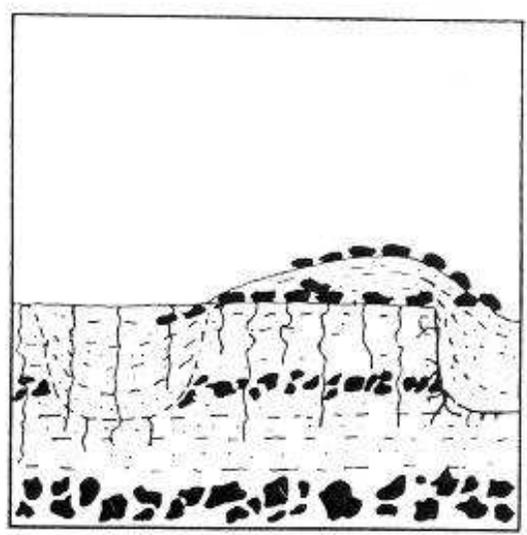
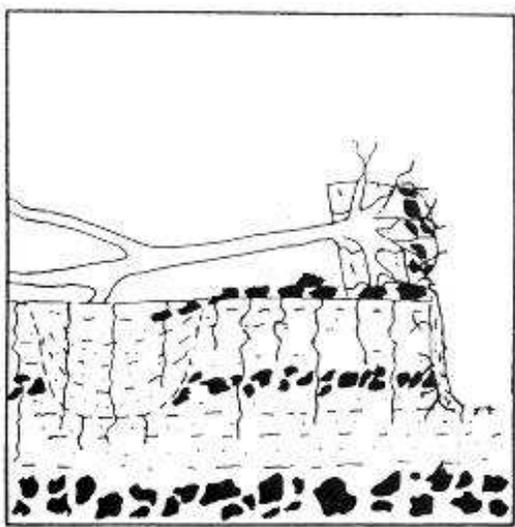
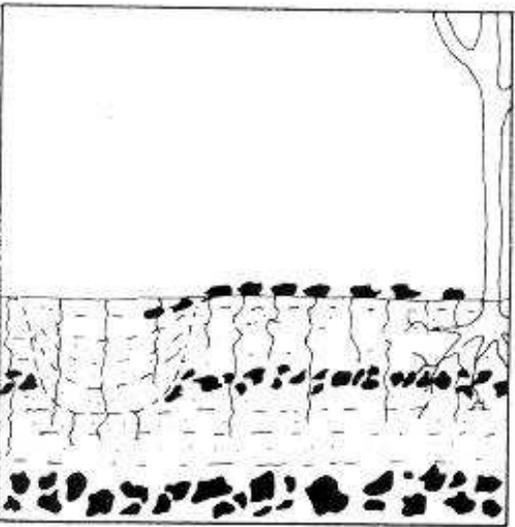
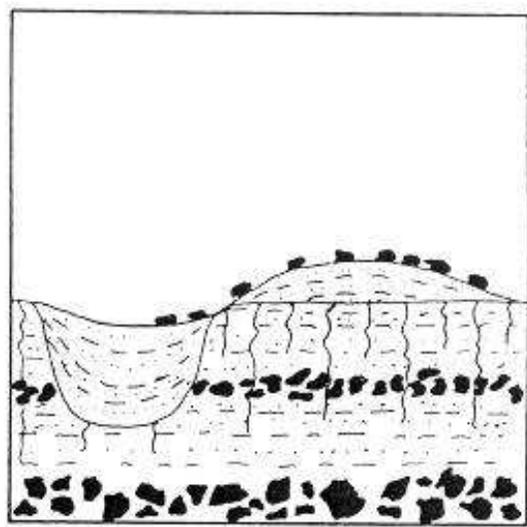
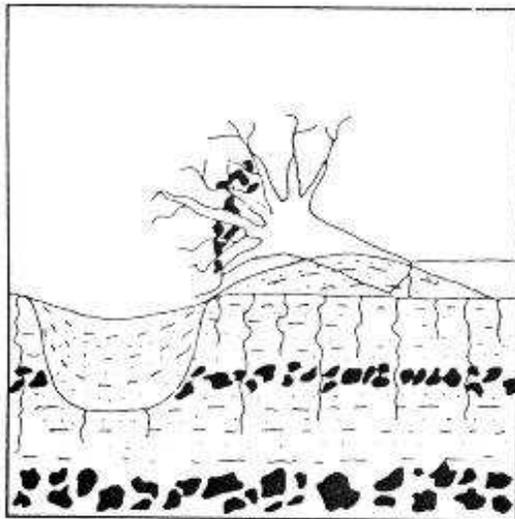
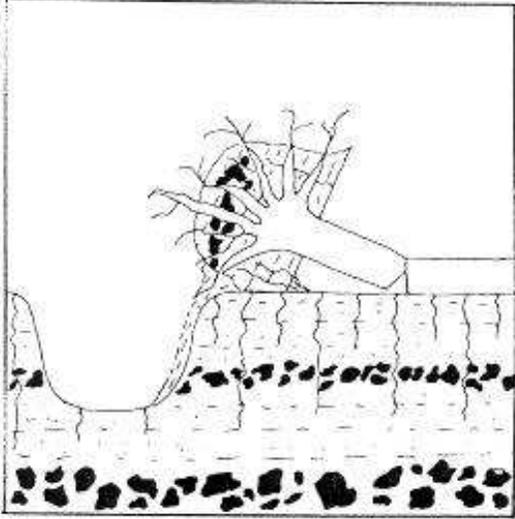
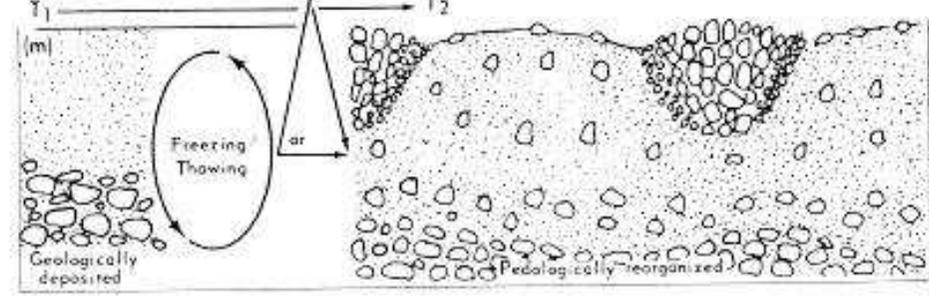
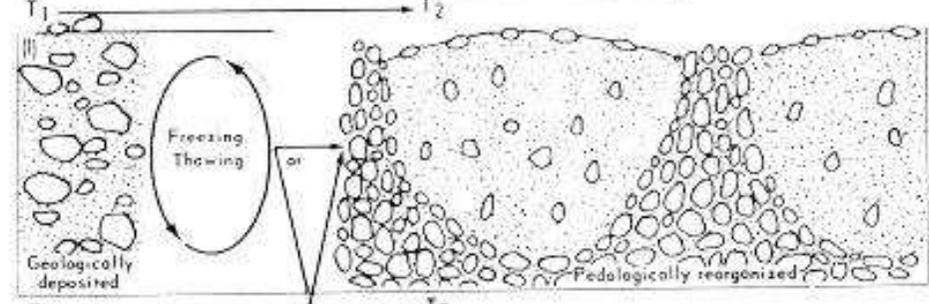
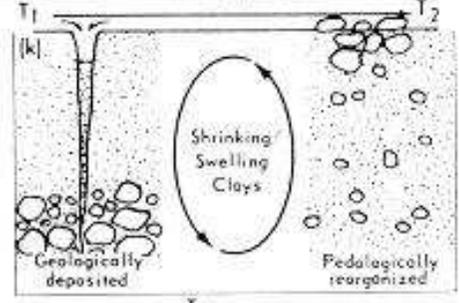
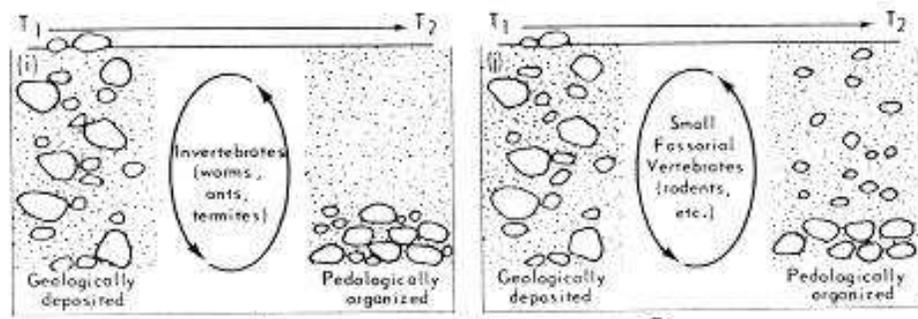


Figure 7-5. Potential blowout deflation, with secondary concentration of artifacts in sealed, simulated cluster.

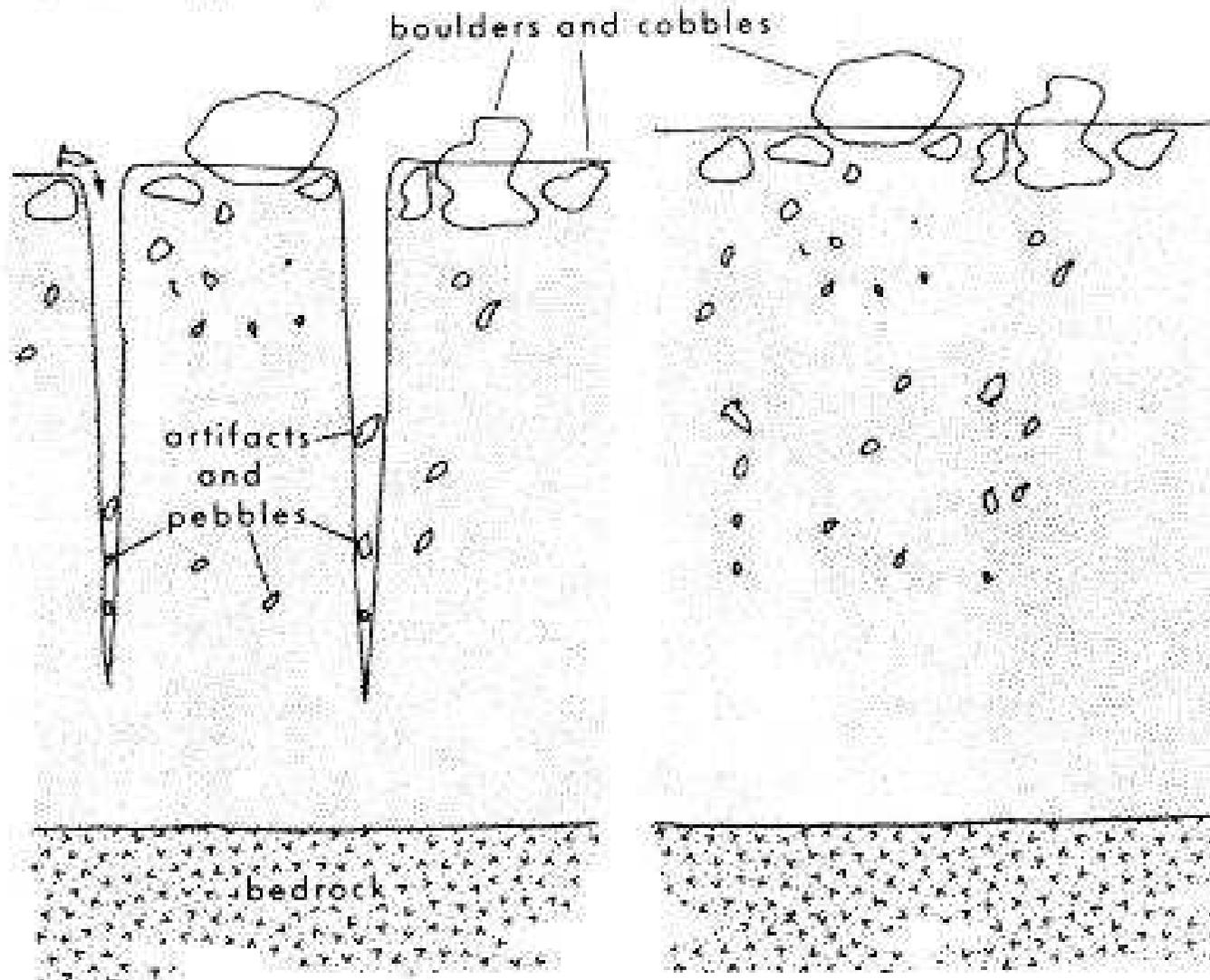


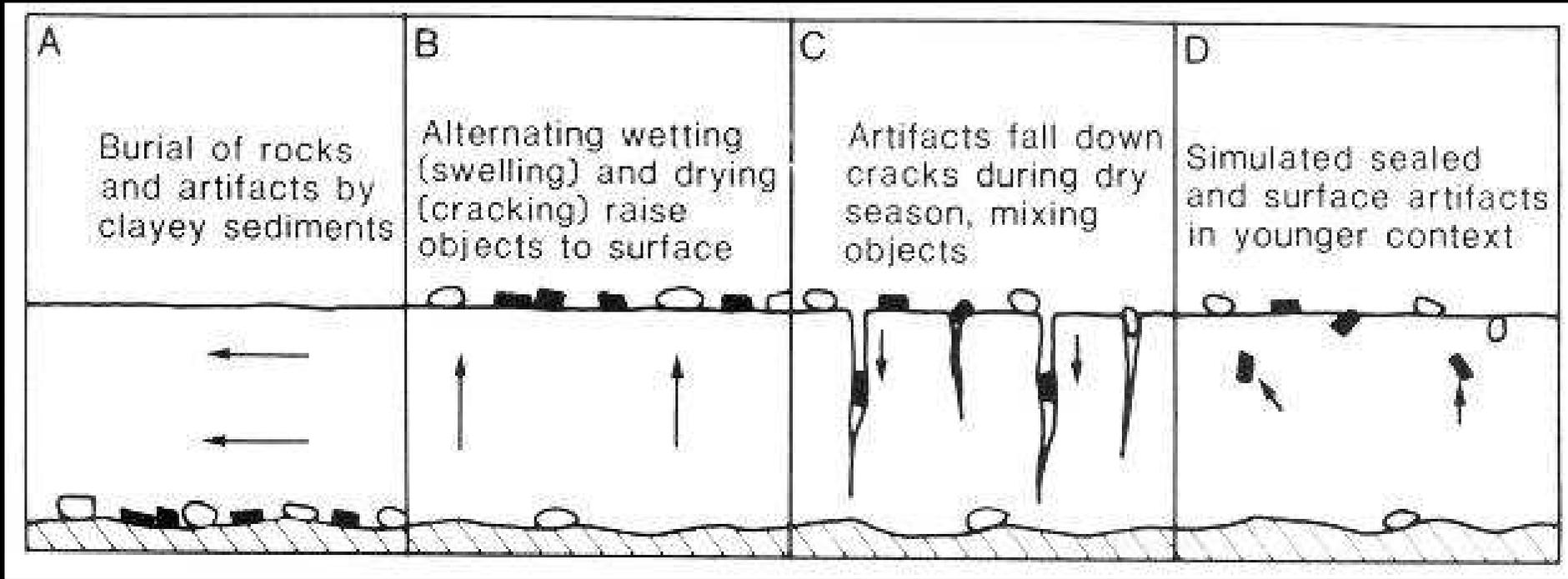


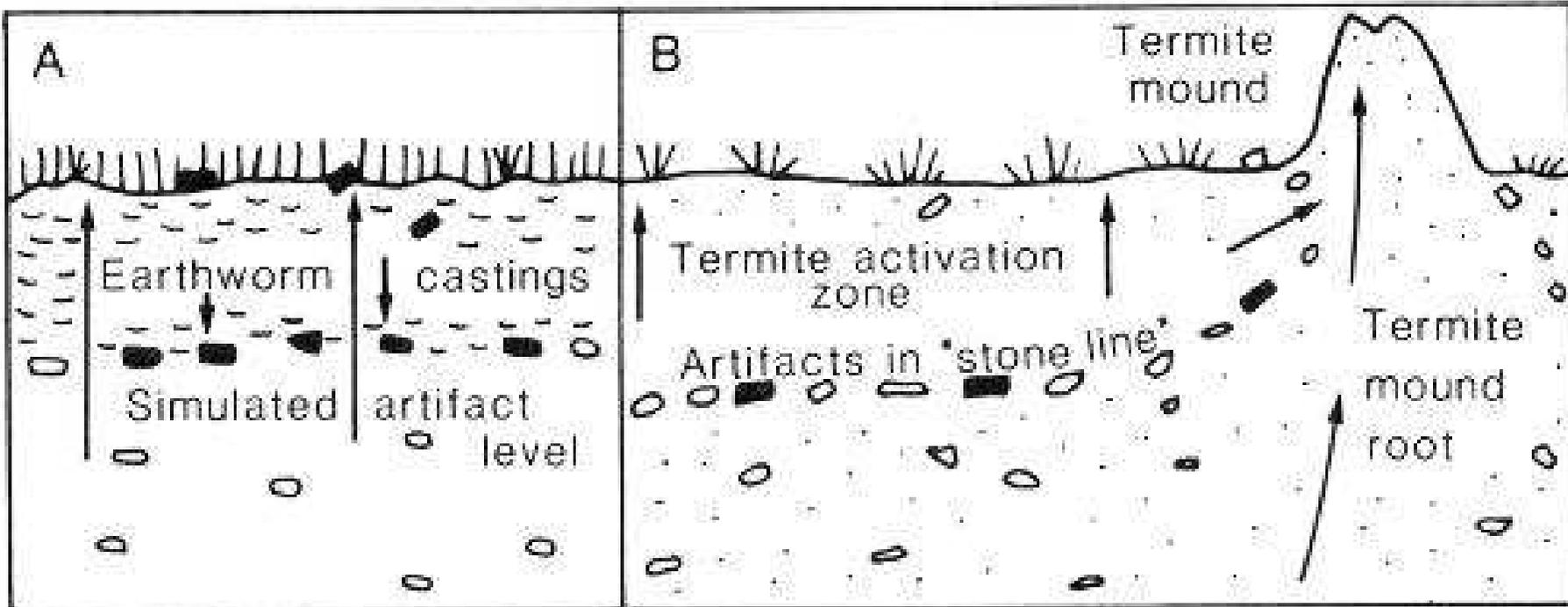


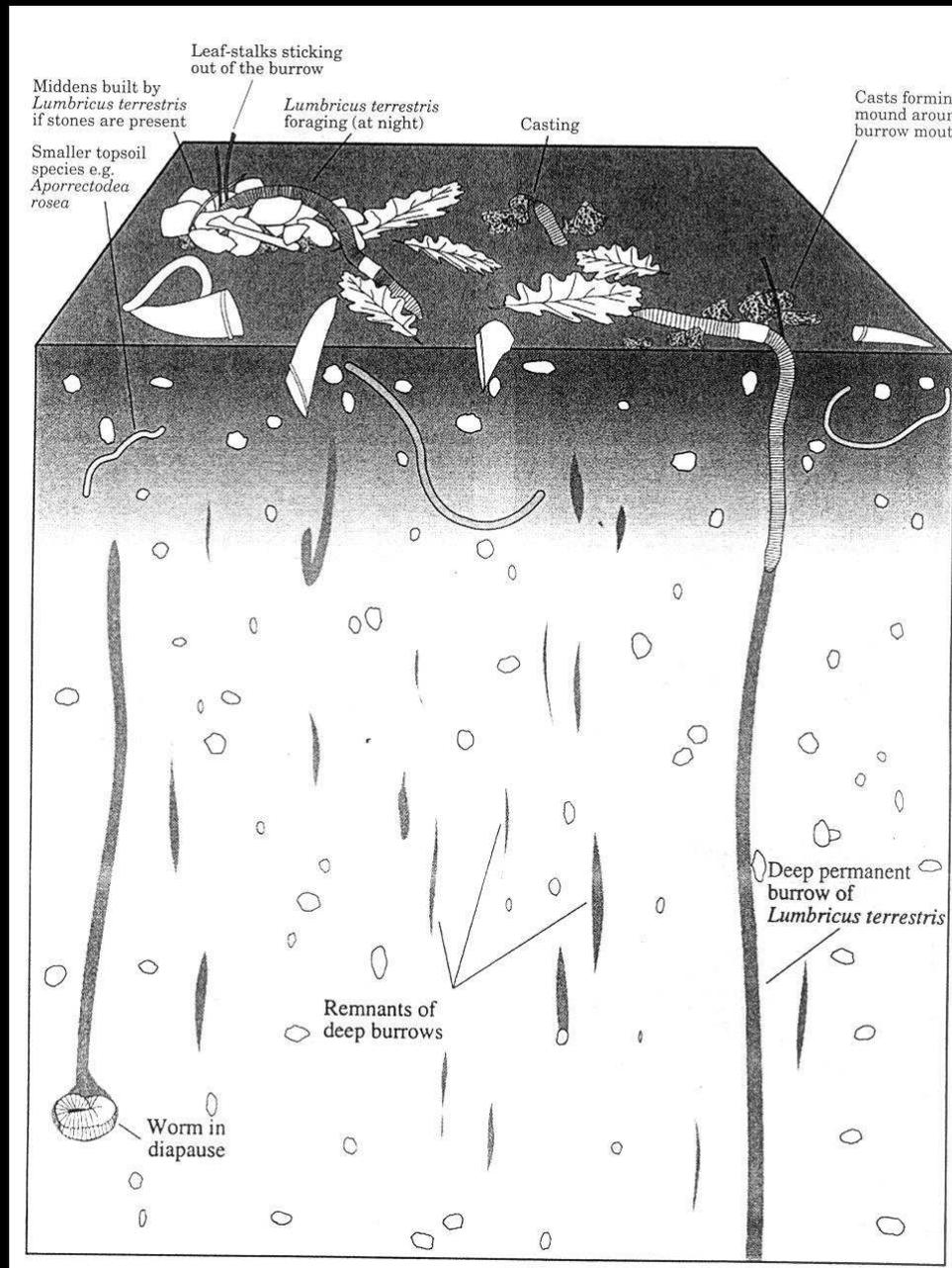
DRY SEASON
(drying, shrinking,
cracks appear)

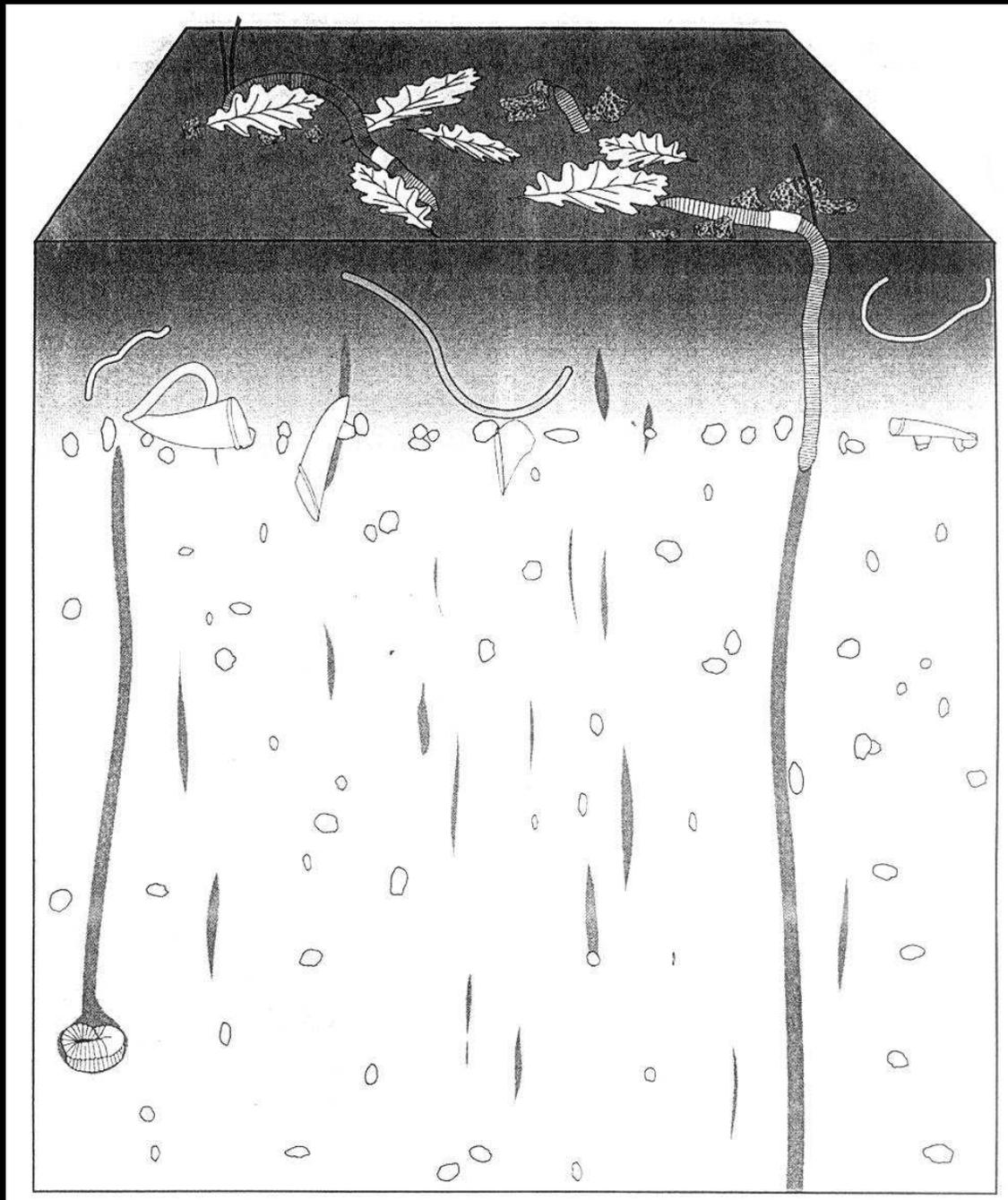
WET SEASON
(wetting, swelling,
cracks disappear)





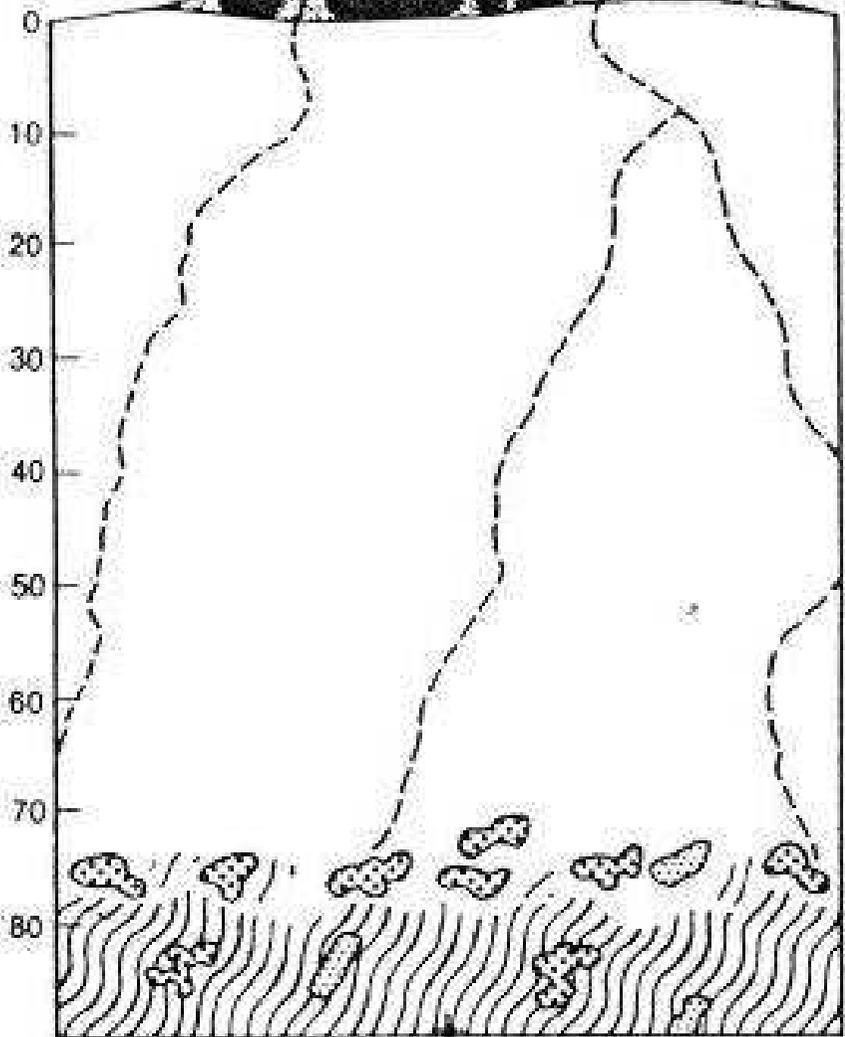






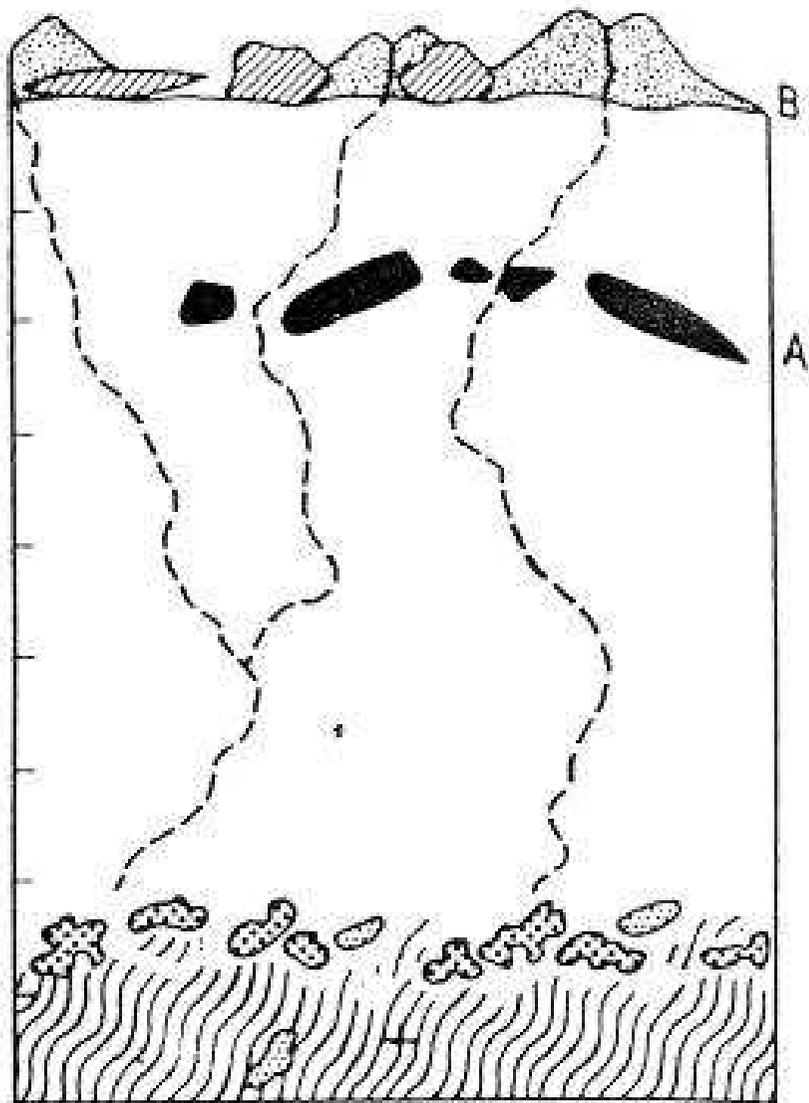


depth in centimeters

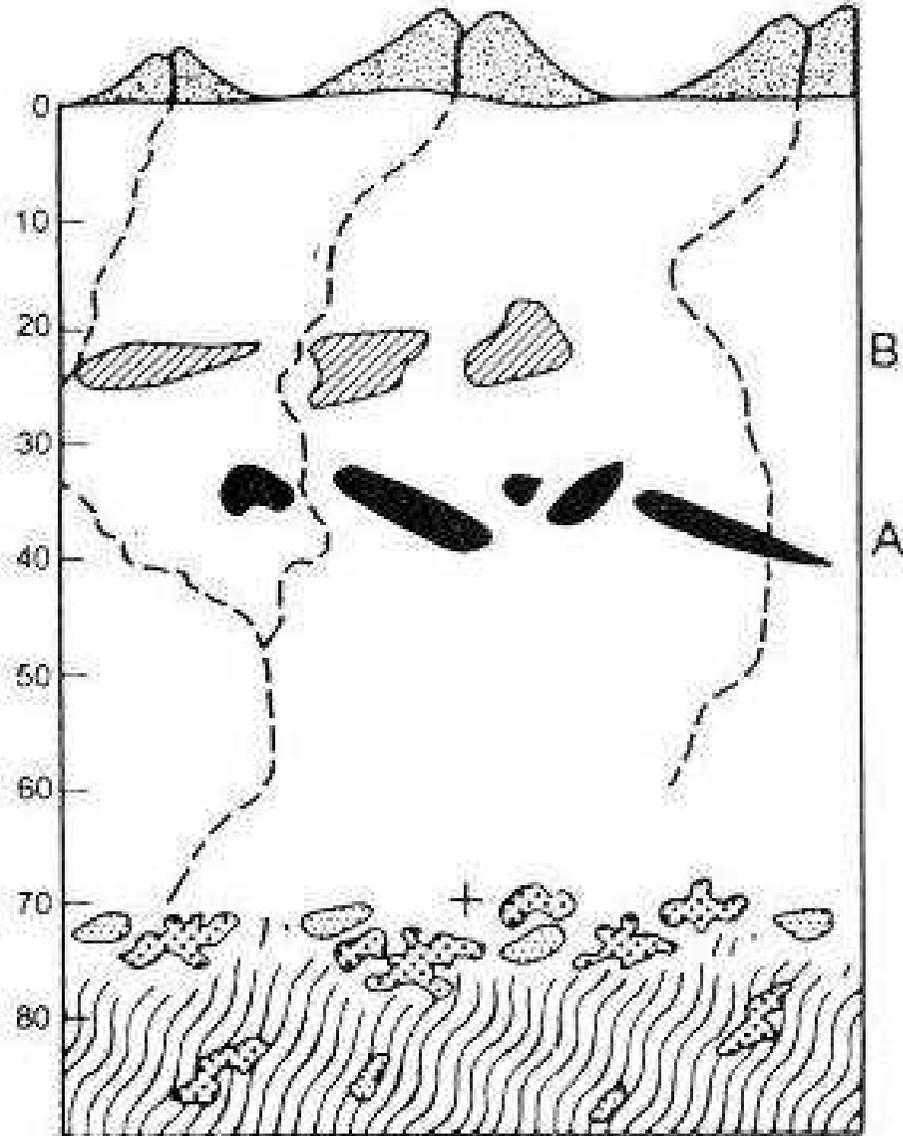


TIME ZERO

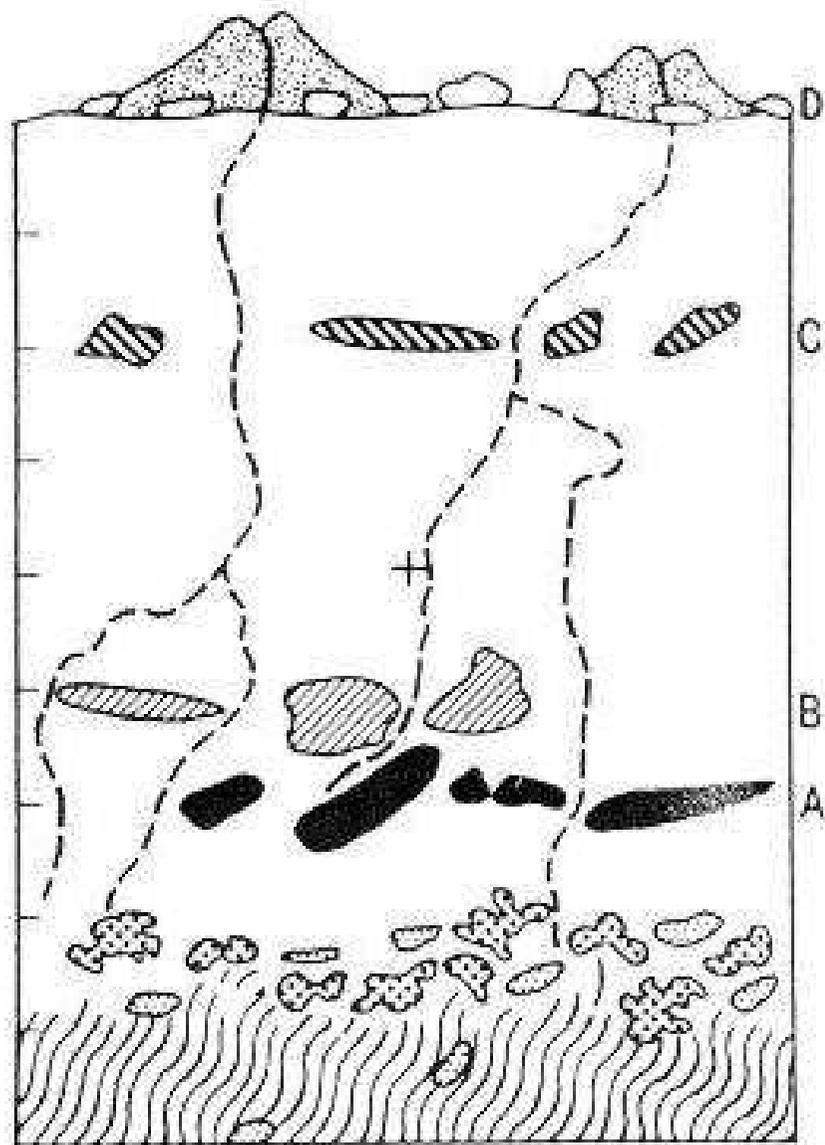
-  Artifact assemblage A
-  Artifact assemblage B
-  Artifact assemblage C
-  Pumice D
-  Iron-manganese concretions precipitate in subsoil and weathered bedrock
-  Quartz gravels released from bedrock by weathering and downwasting
-  Weathered granite gneiss bedrock



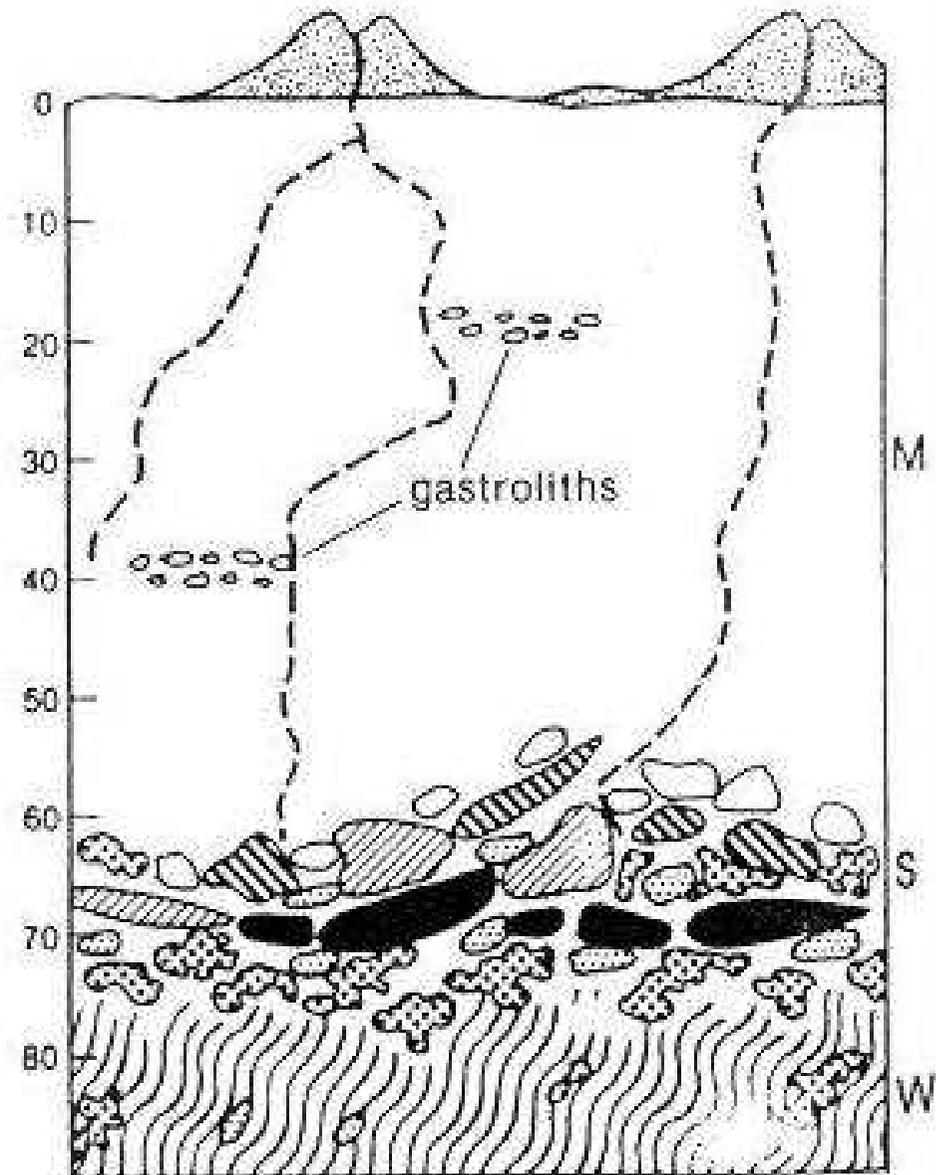
5000 YEARS



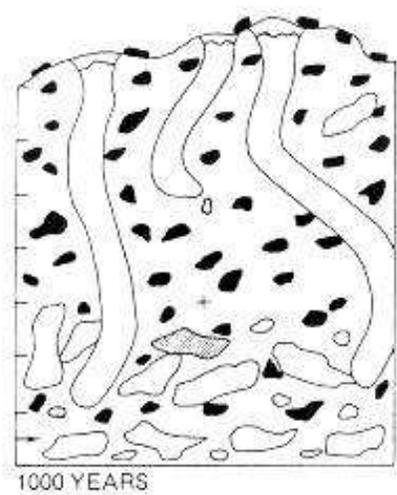
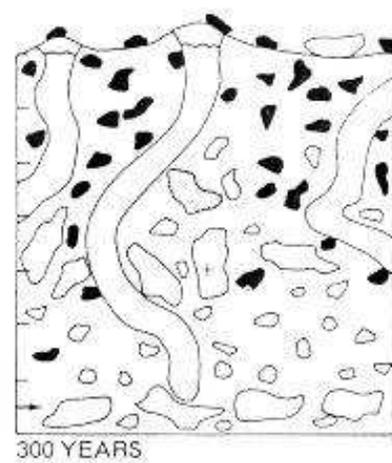
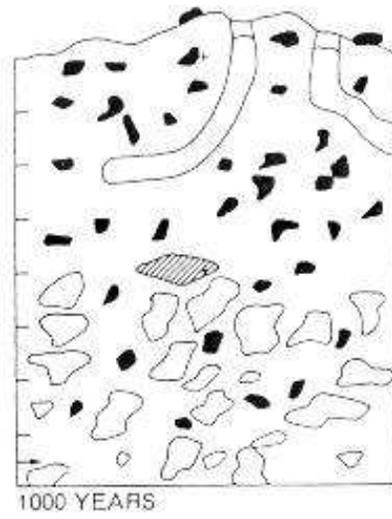
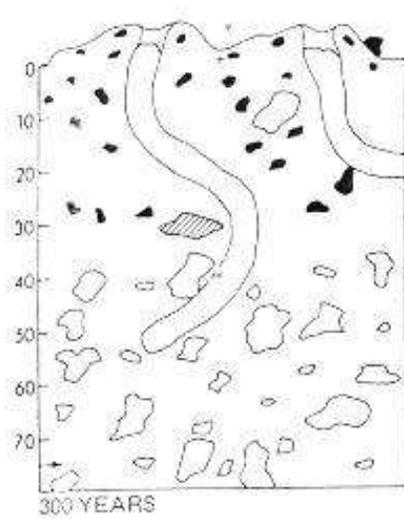
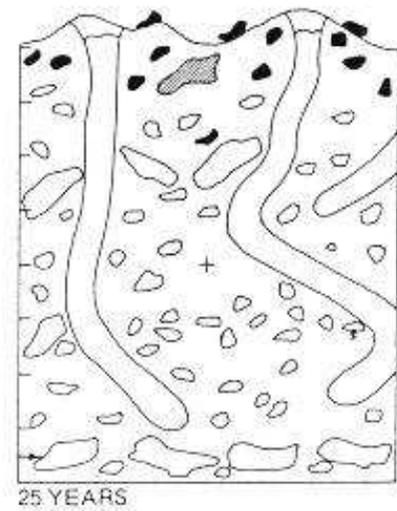
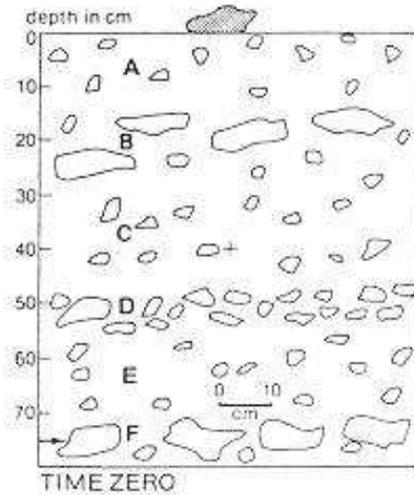
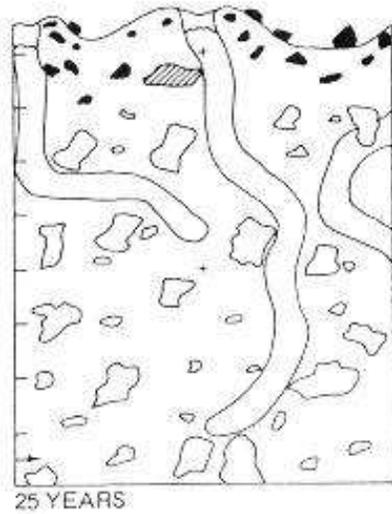
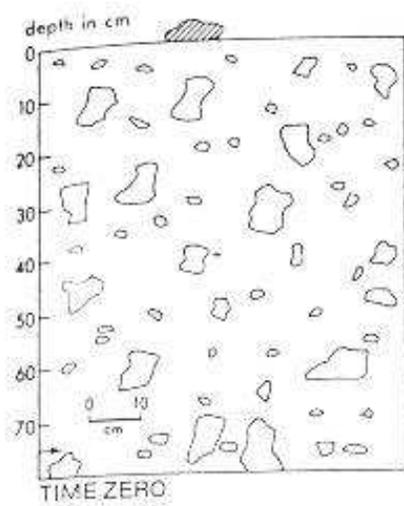
20,000 YEARS

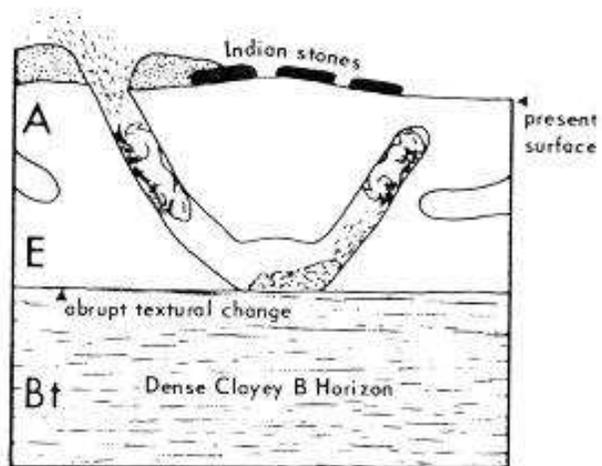


50,000 YEARS

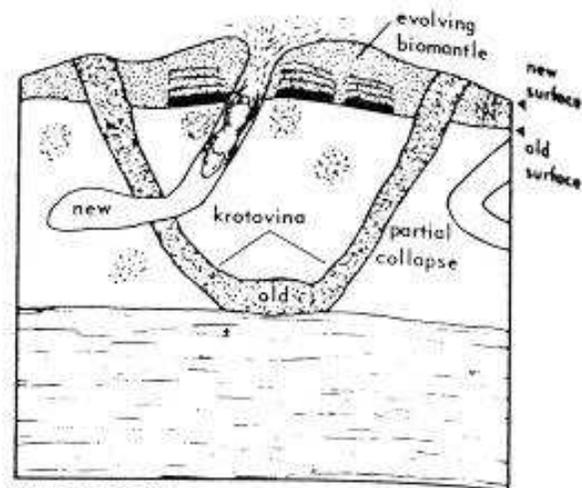


200,000 YEARS

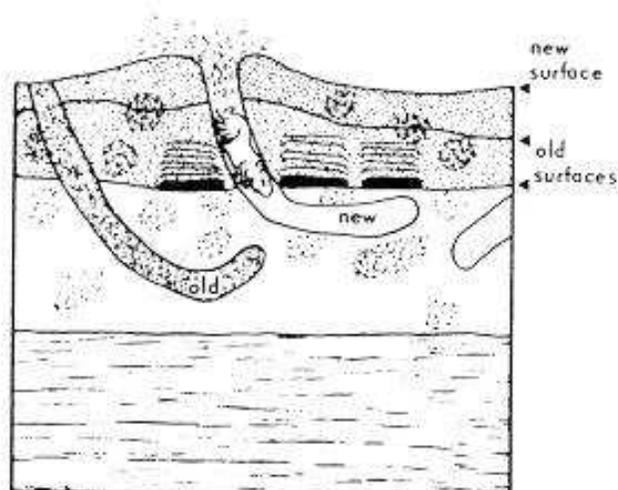




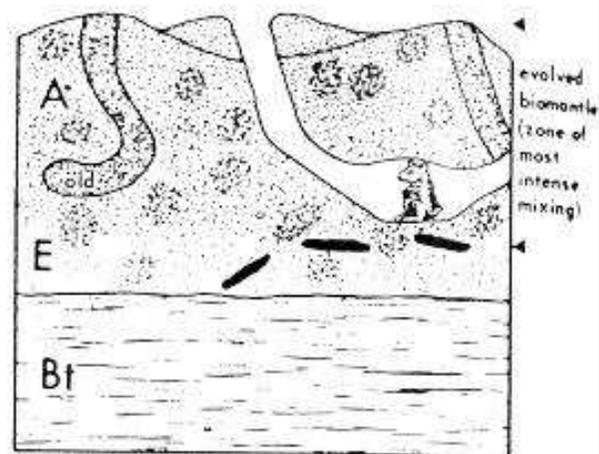
YEAR 1
Surface stone pavement (manuports)



YEAR 10
Downward moving subsurface stone line



YEAR 100
Downward moving subsurface stone line



YEAR 200 (and 300, 400, ...)
Subsurface stone line in E horizon

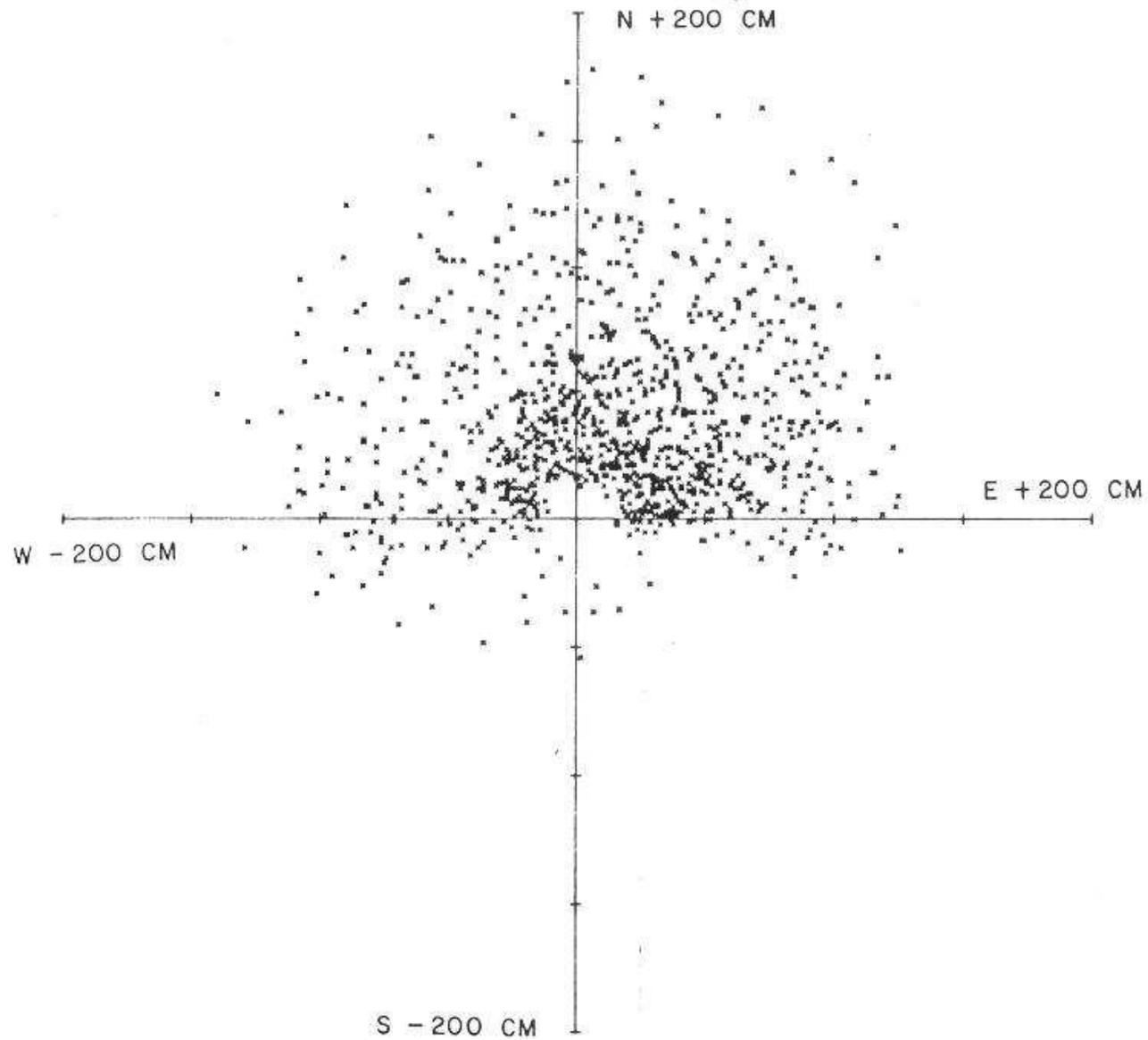


Figure 7. Flake scatter created by a modern-day flintknapper while producing an argillite biface.

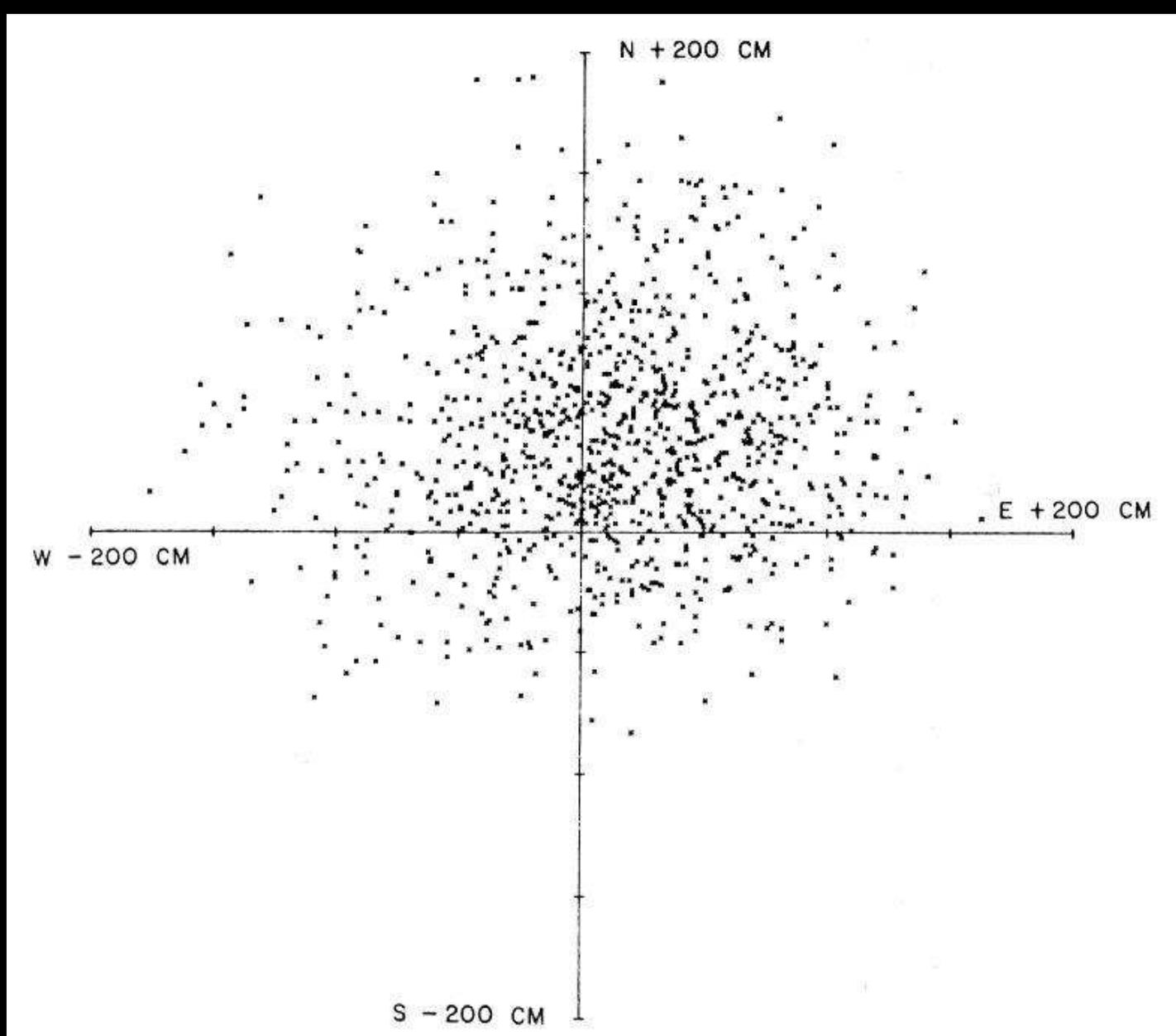


Figure 8. Simulated flake scatter 100 years after production by modern-day flintknapper.

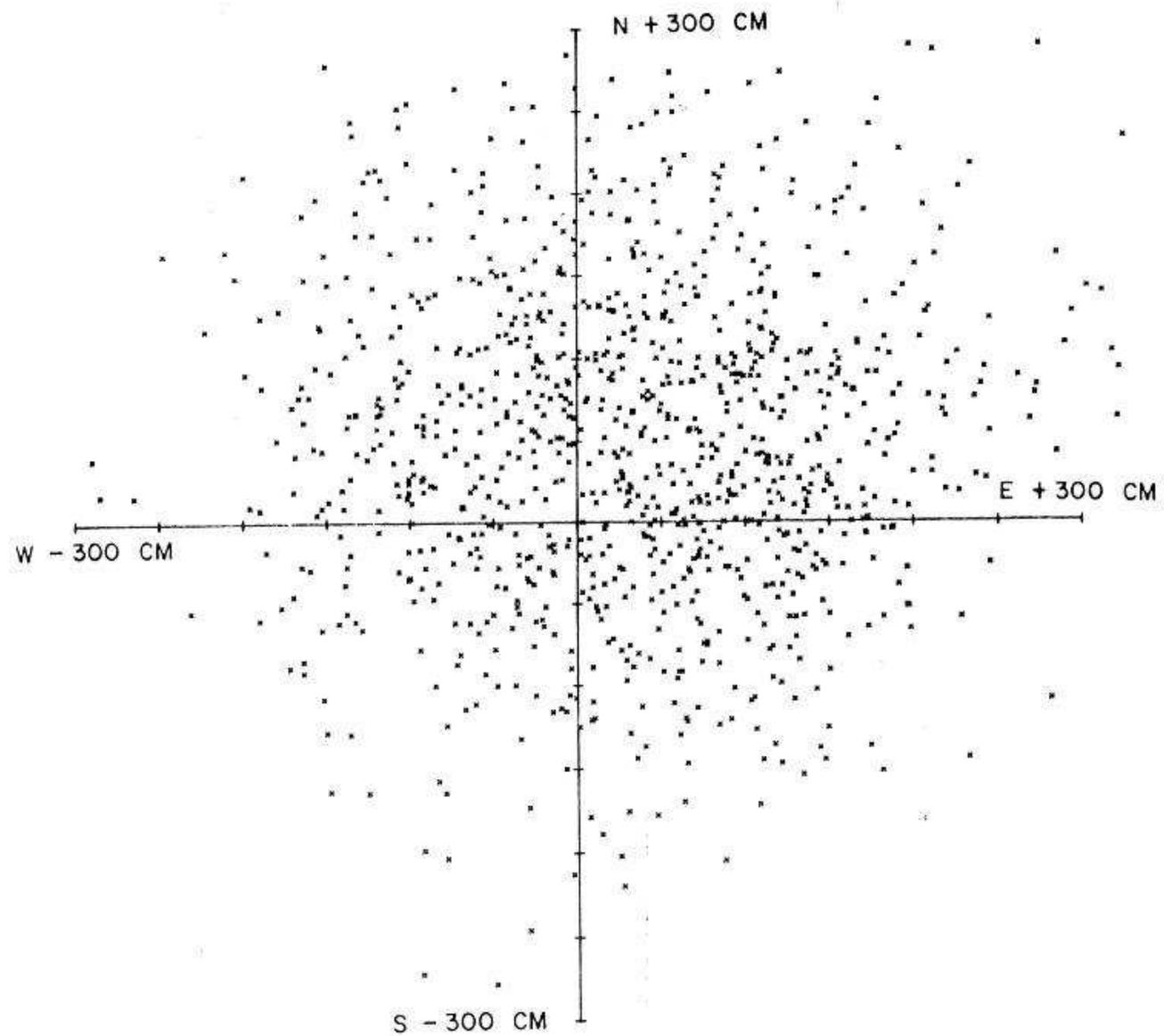


Figure 9. Simulated flake scatter 1,000 years after production by modern-day flintknapper. Note change in scale from Figures 7 and 8.

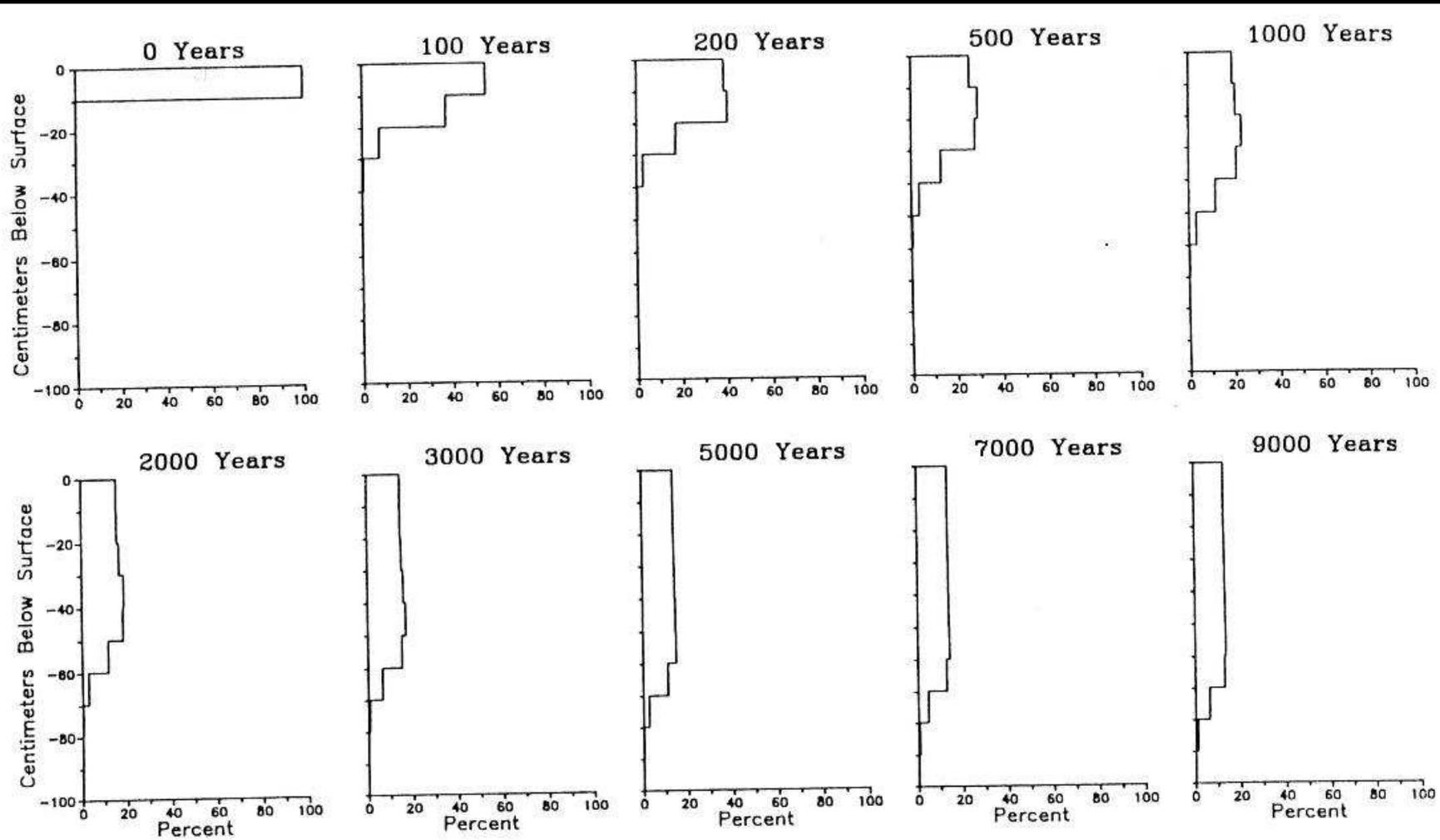


Figure 2. Simulated vertical distribution of small artifacts (<6 cm) over various time intervals.

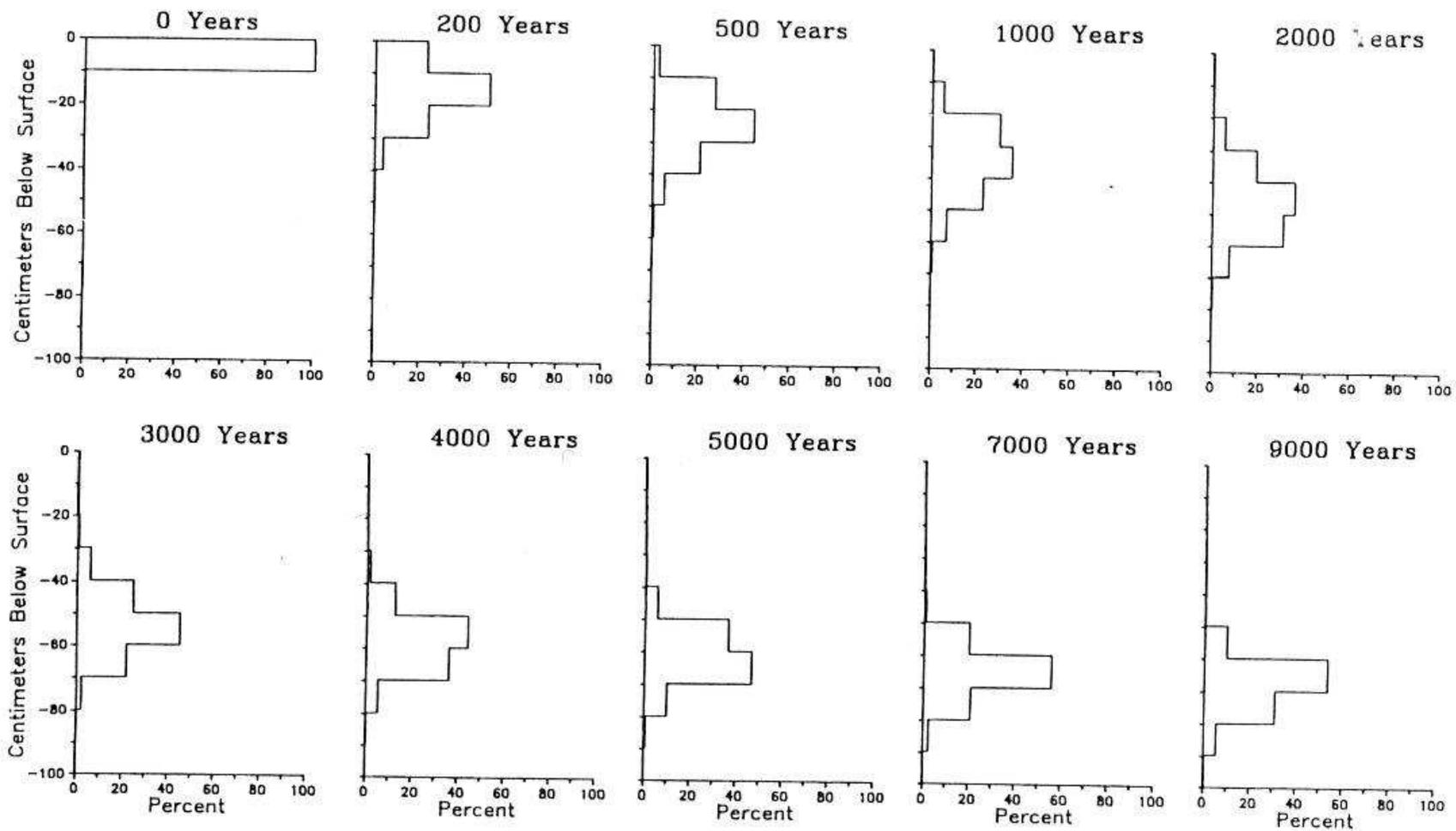
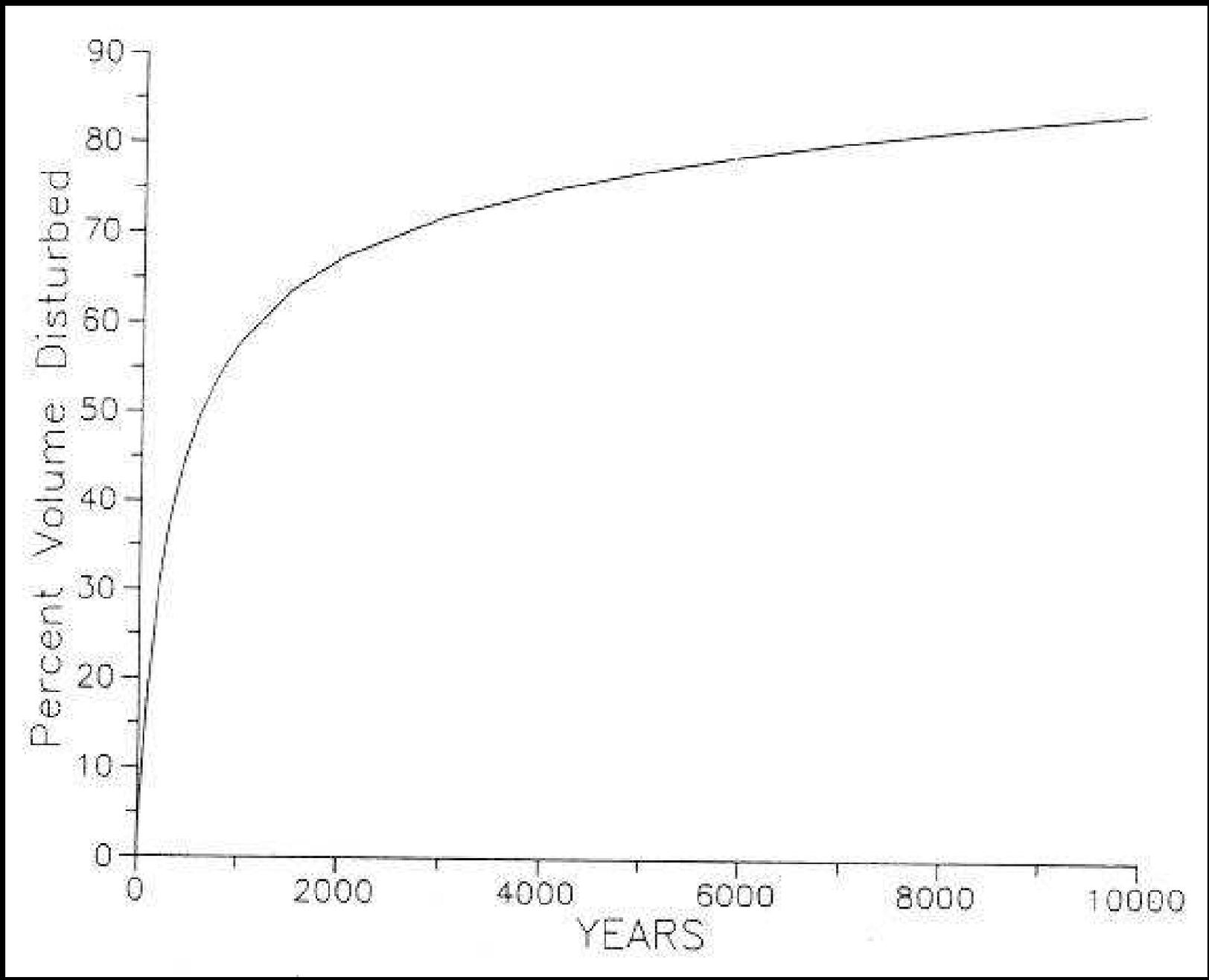
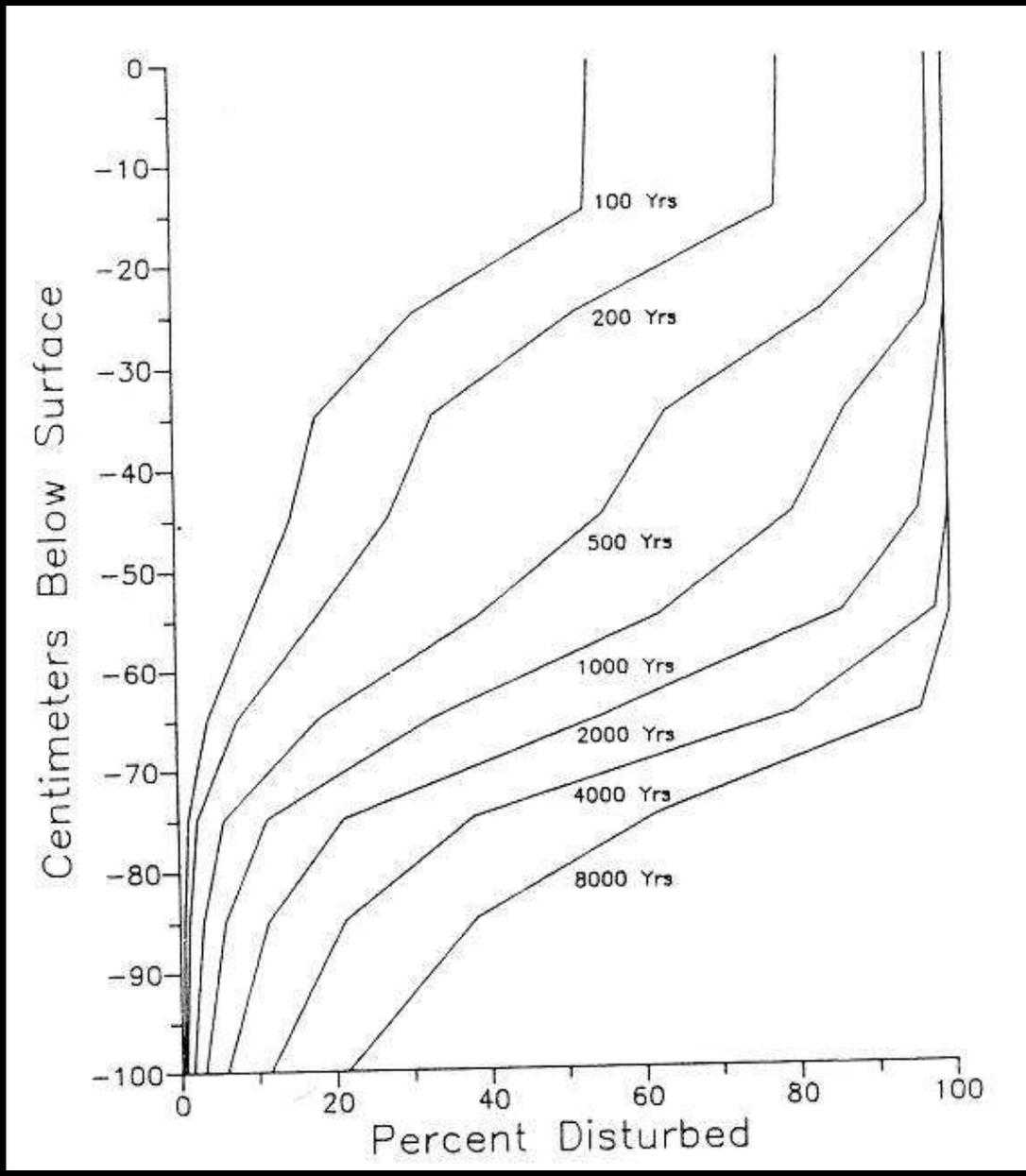
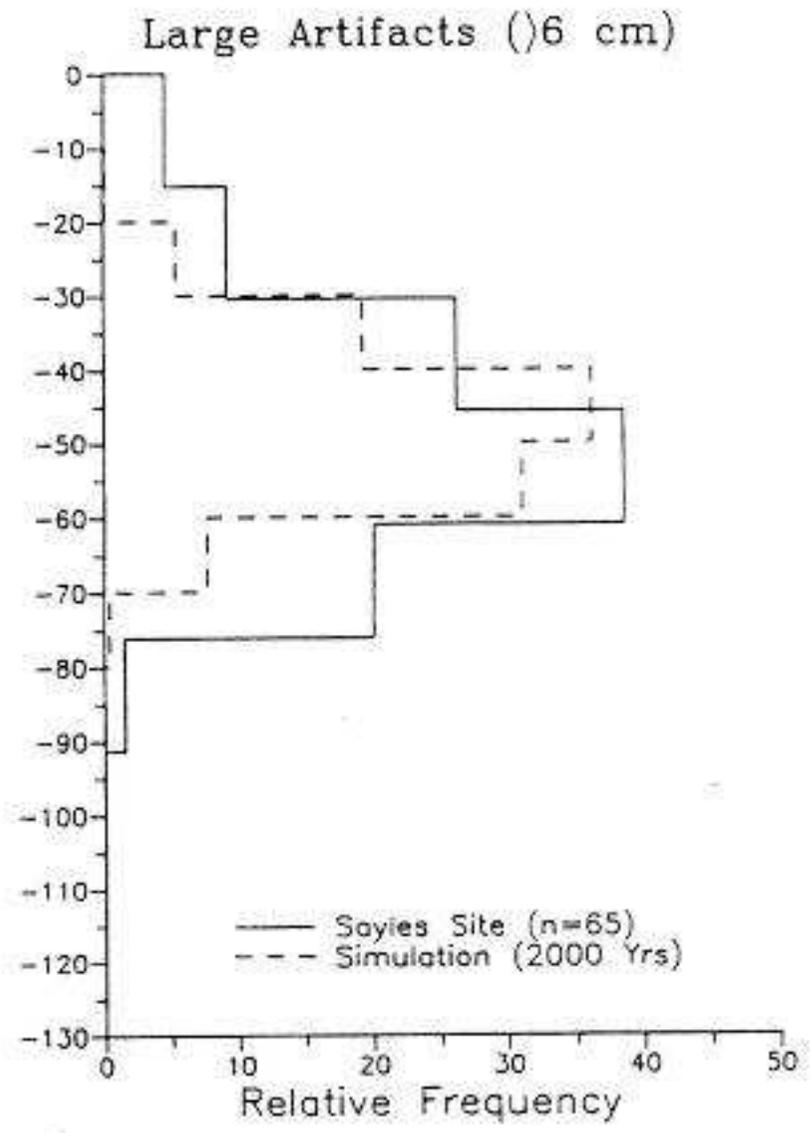
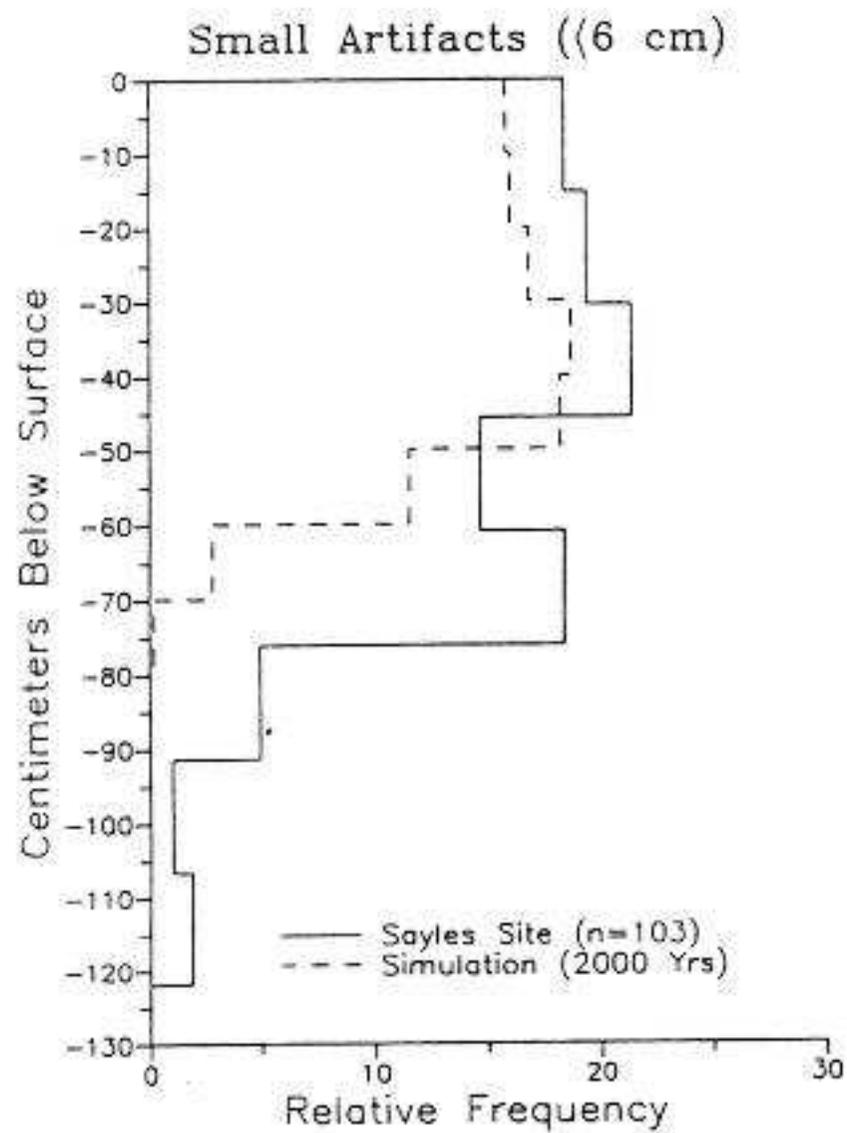


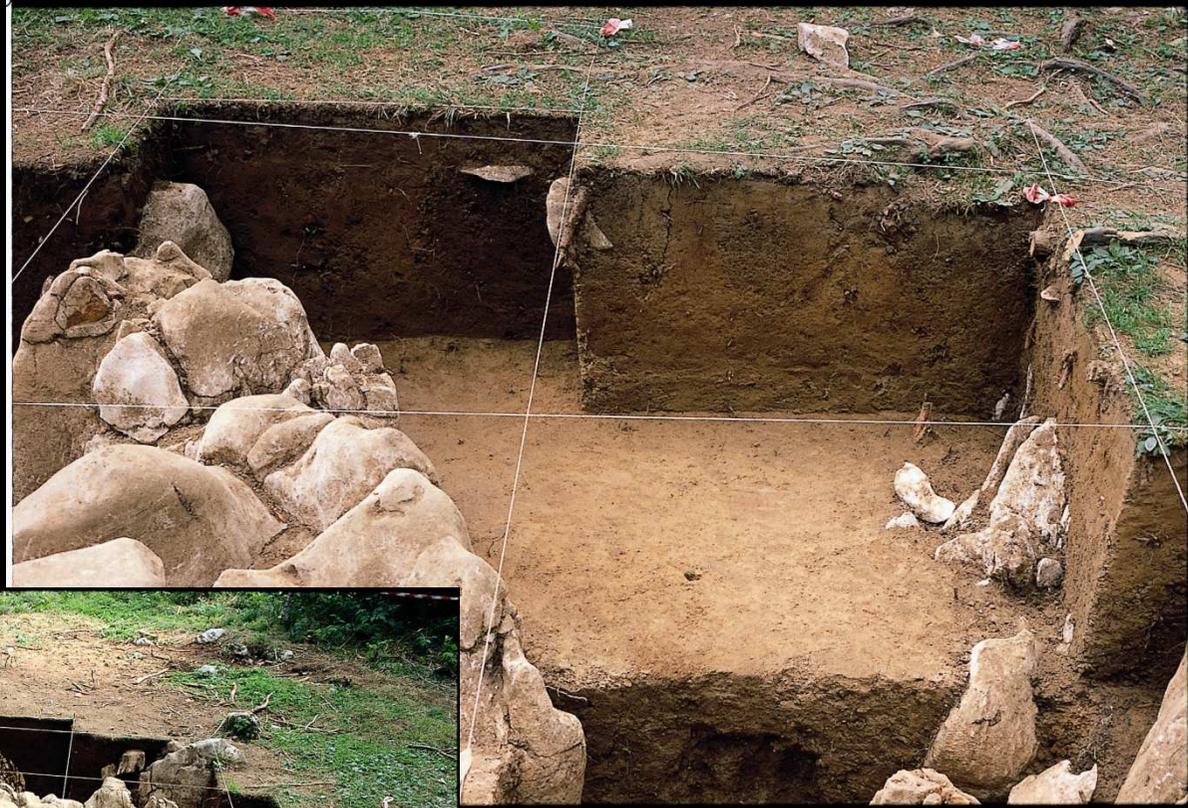
Figure 3. Simulated vertical distribution of large artifacts (>6 cm) over various time intervals.

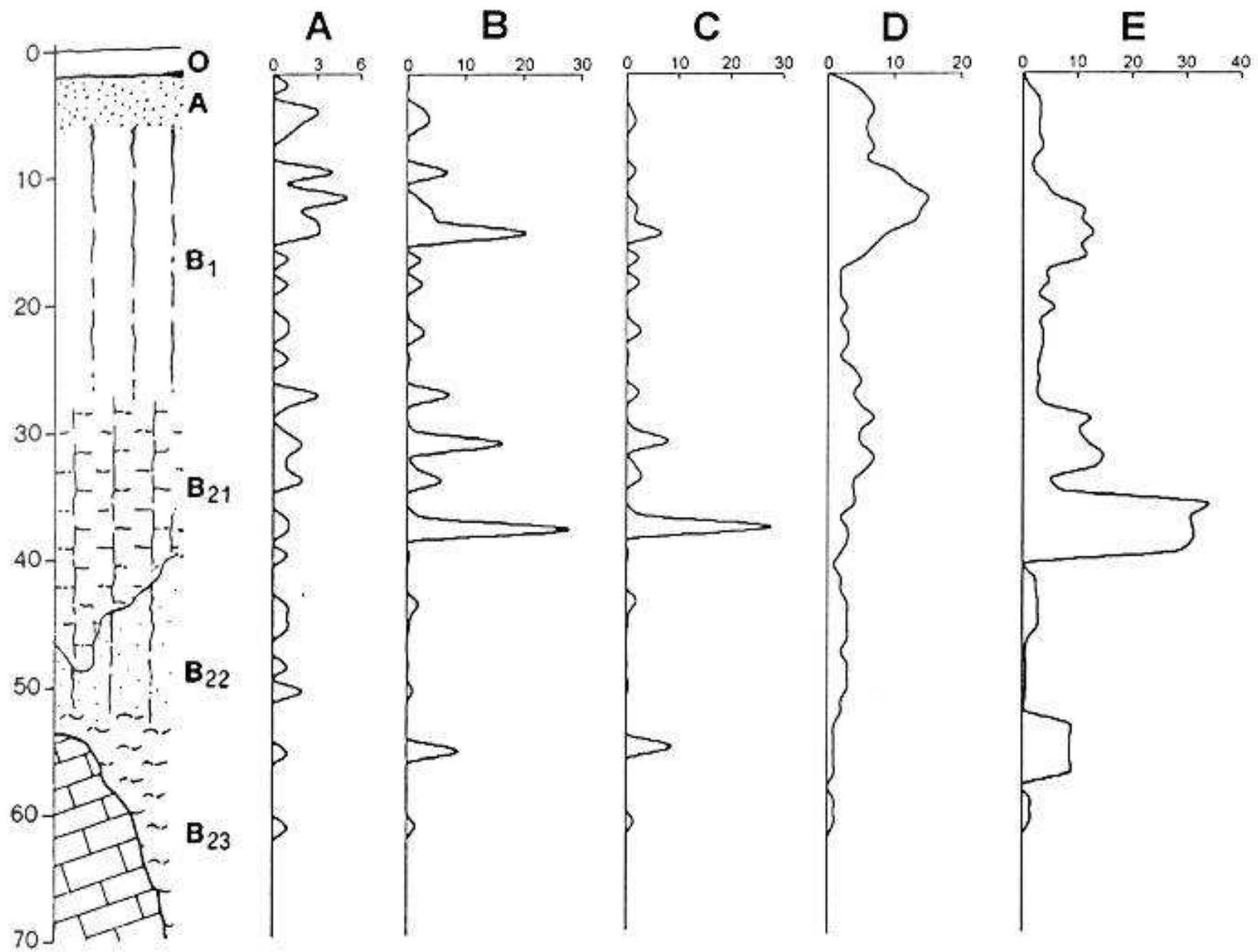












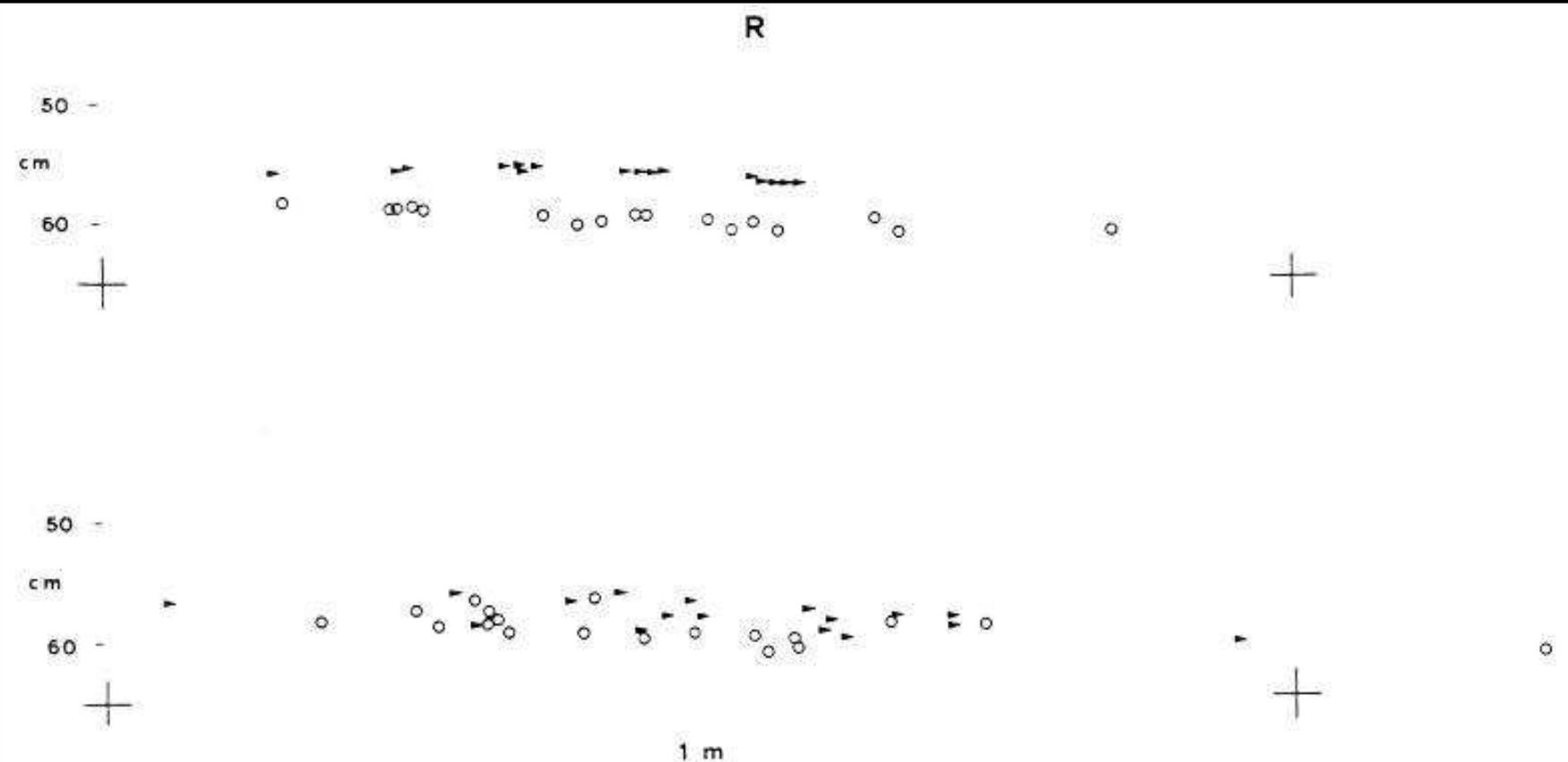


Fig. 2 - Déplacements verticaux dans le carré R, niveaux supérieur et inférieur. Haut : avant piétinement ; bas : après piétinement. Le niveau inférieur, recouvert de 3 cm de sable, a été piétiné pendant 20 jours. On a alors mis en place les objets du niveau supérieur et continué le piétinement pendant 16 jours.

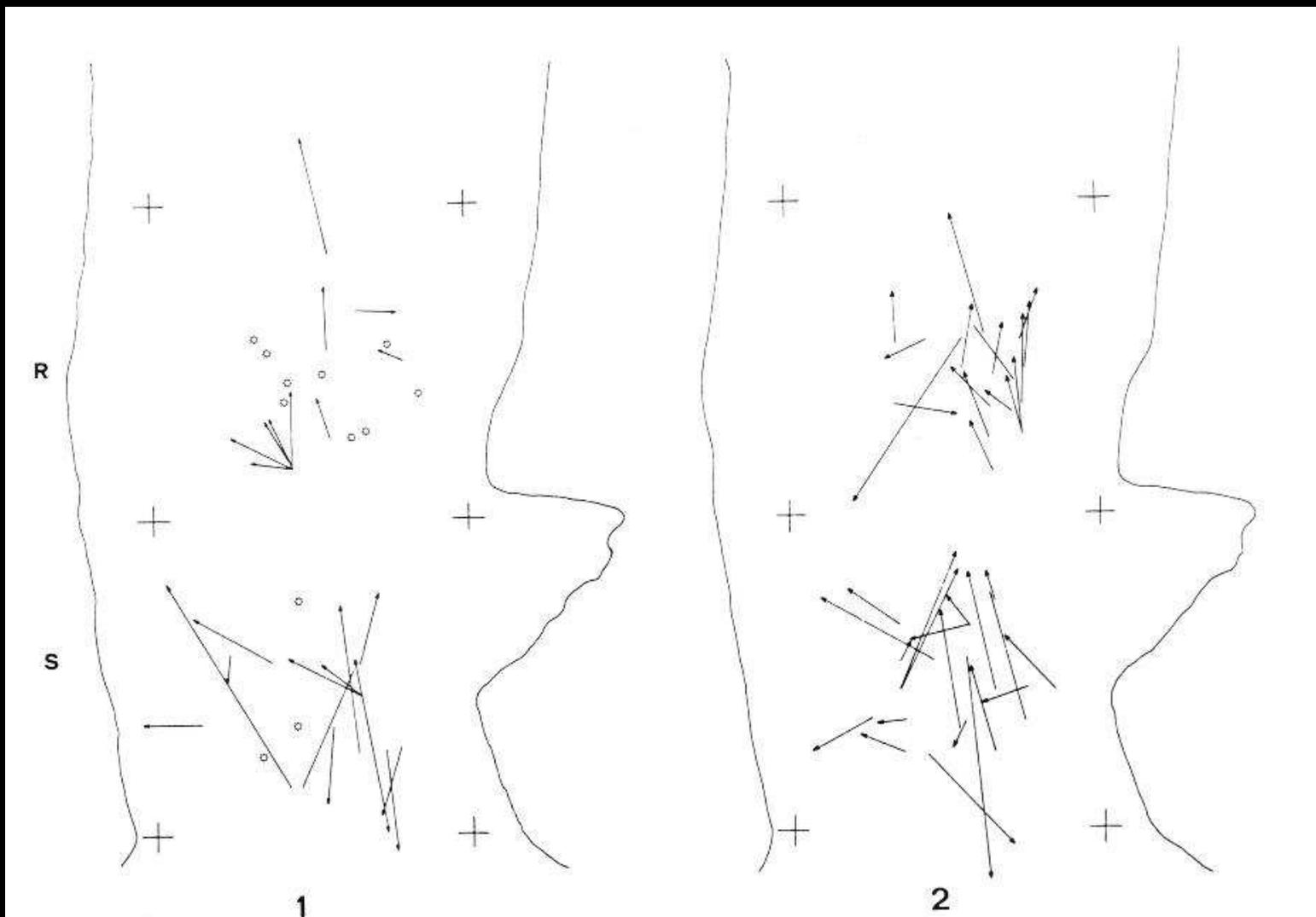


Fig. 3 - Déplacements horizontaux dans les carrés R et S, dans le passage à l'entrée de la grotte.
 1. Carrés R et S, niveaux inférieurs, recouverts respectivement par 3 et 2 cm de sable ; après 36 jours de piétinement.
 2. Carrés R et S, niveaux supérieurs, non recouverts ; après 16 jours de piétinement.
 Les flèches indiquent le sens et l'importance des déplacements horizontaux. Les astérisques représentent les objets n'ayant subi aucun déplacement horizontal.