



FIG. 69. Arrangement of 103 area units along 3 axes from similarity matrix analysis of ant fauna. British areas marked by dot, Danish by triangle, Fennoscandian areas unmarked.

ed by KALLIOLA (1973) on the basis of vegetation types. In Finland this is near the northern limit of *Formica rufa* and *F. pratensis* and of the southern pine zone (WUORENINNE 1975).

In the northern zone, the north boreal species represented in distribution type I including *F. aquilonia*, *F. lugubris*, *F. le-*

*mani* and *F. gagatoides* are characteristic and present with the more generally distributed *M. ruginodis*, *M. sulcinodis* and *L. acervorum*. No species however is entirely restricted to this zone and even the arctic *F. gagatoides* overlaps the two zones in the mountains of Opland and Hordaland in Norway, although the distribution