

<NOTE>**Why Don't the Chimpanzees of M Group at Mahale Fish for Termites?***Shigeo Uehara**(Primate Research Institute, Kyoto University)*

In the Mahale Mountains National Park, Tanzania, chimpanzees are known to fish for two species of termites, *Macrotermes ?herus* and *Pseudacanthotermes spiniger* (1). The chimpanzees of B Group have been confirmed to fish for *M. ?herus* (2), while the chimpanzees of K Group (no more existing) were observed to fish for *P. spiniger* in 1977 and 1978 (3). In contrast, we have never observed the chimpanzees of M Group to fish for termites at all, although two immigrant individuals from K Group (GW and LL) were seen to do so in 1981 (4). GW (a female now very old) is still alive, but she has never been witnessed again to practice the same activity since then.

According to the detailed study by Collins and McGrew (5), termite fauna at Mahale clearly showed local differences. In the range of B Group which is the northernmost study population at Mahale, mounds of *Macrotermes* were not rare. In the range of neighboring K Group, mounds of *Macrotermes* did not exist while those of *Pseudacanthotermes* were common. Such differences in termite fauna may be caused at least partly by the conspicuous local differences in annual rainfall between the ranges of two groups (6). Regrettably, no relevant data have been reported from the exclusive range of M Group (5), the southernmost population of the three study groups.

GW might have failed to transmit the "termite-fishing culture" to M Group. The former range of K Group is now commonly utilized by M Group after the expansion of its range to the north, although availability alone does not always explain the choice of termite prey by chimpanzees (7). However, this speculation remains still tentative at the moment.



GW (left) watches WT's (right) termite-fishing, probably anticipating to take over the fishing site (K Group: November 24, 1977).

Besides chimpanzees, there are very many animals which prey on termites. Some extreme cases such as invasions by *Dorylus* ants bring the sudden "death" of *Macrotermes* mounds (8), although it is unclear if the same phenomena occur for the mounds of *Pseudacanthotermes*. Moreover, competition for the same mounds seems to exist among different species of termites (5, 8).

Diachronic changes in distribution and abundance of mammals clearly affect the prey profile of hunting by the chimpanzees of M Group (9). With respect to the termite fauna at Mahale, continuous monitoring to follow changes in distribution and density is needed as well in order to understand the complicated relationship between chimpanzees and termites.

References

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