

Figure Legends

Fig. 1. The plant cover of forests and woodland-savannah of Nigeria's Gashaka Gumti National Park reflects pronounced climatic variation, as exemplified by photos of an identical location (2010). (a) Wet season. (b) Dry season.

Fig. 2. Army ant colony immediately after insect-harvesting chimpanzees of the Gashaka-Kwano community targeted it. Defending workers swarm up and around a dipping tool left inserted into the nest entrance (27Nov07).

Fig. 3. Annual pattern of rainfall, fruit abundance and chimpanzee night group sizes at Gashaka-Kwano (data for 2001–2008). Rain: left Y-axis indicates monthly percentages of annual total of 1,973 mm; fruit index: left Y-axis indicates monthly percentages of annual total of 26,599; night groups: right Y-axis indicates average number of weaned animals.

Fig. 4. Mean monthly number of ant-dipping tools used per chimpanzee. Values in brackets indicate monthly sample of ateliers (total $n = 104$, data for 2001–2008).

Fig. 5. Mean monthly number of ant-dipping tools per chimpanzee as a function of fruit abundance.

Fig. 6. Army ant remains in chimpanzee faecal samples. (a) Monthly proportions of samples ($n = 660$, 2001–2008) with and without remains (modified after Pascual-Garrido et al., 2013: Fig. 2a). (b) Monthly proportions of samples ($n = 392$, 2005–2008) containing different numbers of ant heads, i.e., none, up to 100 or more than 100.

Fig. 7. Proportions of chimpanzee faeces with ant remains as a function of food abundance.

Fig. 8. Proportions of members of a given chimpanzee night group that have ant remains in their faeces. Based on samples retrieved from under the sleeping trees of night groups ($n = 161$, 2001–2008).

Fig. 9. Annual distribution of army ant consumption by chimpanzees as reconstructed from night groups. Data are broken down into three categories, i.e., that (i) all, (ii) some or (iii) none of the members of the sleeping group had ant remains in their faeces.

Fig. 10. Mean sizes of chimpanzee night groups under the condition that (i) all, (ii) some or (iii) no members of the nest group had army ant remains in their faeces. *** = $P < 0.001$, ns = non-significant.







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