

spodocephala by Ogilvie Grant (1895) and Whitehead (1899). McGregor (1910), Delacour & Mayr (1946), and duPont (1971) continued to list this specimen as the only record for the species from the Philippines.

At the American Museum of Natural History (AMNH), I located Whitehead's specimen (AMNH 715921) not with *E. spodocephala* as expected, but with *E. aureola*. After careful comparison with material of both *E. spodocephala* and *E. aureola* of appropriate plumage, I concluded that Whitehead's specimen was indeed *E. aureola* and a representative of the nominate race *E.a. aureola*.

Bruce (1980) was the first to list *E. aureola* from the Philippines, but he did not mention why he included it.

As there are no other specimens of *E. spodocephala* from the Philippines, this species must be deleted from the Philippine list and *E.a. aureola* must be added. Since Severinghaus & Blackshaw (1976) consider *E. spodocephala* a common migrant to Taiwan, it may indeed one day appear in the Philippines.

Acknowledgements. I am grateful to E. C. Dickinson who requested I check the collection date of Whitehead's specimen, to K. C. Parkes who confirmed my identification of the specimen, and to the Frank M. Chapman Memorial Fund for financial assistance that allowed me to visit the AMNH.

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Occurrence and ecological segregation of races of Black Kite *Milvus migrans* in northern Tanzania

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Received 14 May 1984

The Black Kite *Milvus migrans* has 7 races, of which 3 occur in Africa (Brown *et al.* 1982), namely *M.m. parasitus* (Daudin), *M.m. aegyptius* (Gmelin) and *M.m. migrans* (Boddaert), of which the first 2 have yellow bills as opposed to the black bill of the *migrans* race. Also the head of *migrans* is markedly whiter than that of the other 2 races (Brown *et al.* 1982). The African races generally occupy different geographical areas but where overlap occurs they may intergrade (Mackworth-Praed & Grant 1962).

However, *M.m. migrans*, which breeds in the Palaearctic and northwest Africa but migrates south in winter, occurs in the presence of local *M.m. parasitus* in

West Africa (Moreau 1972); but the 2 races remain segregated, *parasitus* scavenging in towns, *migrans* avoiding feeding in close association with human habitation. Moreau described *migrans* as not being "anthropophile". Observations reported here indicate that such ecological segregation is not an isolated event.

Between October 1983 and March 1984 a population of *M.m. migrans* and *M.m. parasitus* was observed in Arusha, northern Tanzania, East Africa. A large number of *parasitus* was first observed in Arusha town, landing on trees and buildings. They were seen feeding on garbage. Later, 2 roosts, one of *migrans* and another of *parasitus*, were discovered in the town, c. 1 km apart, both in tall trees.

The roost for *M.m. migrans* was in eucalyptus trees and comprised c. 600 individuals. Although essentially a night roost, c. 200 were seen at the roost during the day. When at the roost the birds occupied the top and outer parts of the trees, allowing a clear view around them. All were *migrans* except for less than 10 individuals of *parasitus* also observed in the roost.

The local *M.m. parasitus* roosted in a jambalum tree *Syzygium cumini*, c. 300 of them, with which 7-15 *migrans* also were counted. Unlike *migrans*, *parasitus* was not observed to occupy their roost during the day; only 2-3 would land on the jambalum tree in the day, but these visits to the roost were brief and appeared to be associated with foraging.

The 2 races had different roosting habits. Both flocked immediately before they went to roost in the evening, but *migrans* roosted earlier than *parasitus* by about half an hour (at 18:30). It is possible that flocking *migrans* while *en route* to their roost attracted a few *parasitus* individuals to fly and roost with them. Similarly the flocking *parasitus* going to roost later may have attracted late-coming members of *migrans* to join their roost.

The 2 races also fed in different areas. *M.m. parasitus* was commonly seen in town foraging on garbage throughout the day, while *migrans* foraged away from town, many being seen foraging on cultivated and open land c. 12 km away from the town, near the Tropical Pesticides Research Institute. No *parasitus* were observed in this area. The food of these *migrans* was not established, but the area is known to harbour rats, moles and arthropods.

These observations record ecological segregation between *M.m. migrans* and *M.m. parasitus* in northern Tanzania. That the observation in east Africa is similar to that recorded by Moreau in west Africa suggests that ecological isolation between the 2 races may be normal.

Acknowledgement. I am grateful to Dr. C. J. Feare of MAFF Worplesdon Laboratory, UK, for making valuable corrections to the draft manuscript and providing more up-to-date information.

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Manyanza, D N. 1984. "Occurrence and ecological segregation of races of black kite *Milvus migrans* in northern Tanzania." *Bulletin of the British Ornithologists' Club* 104, 150–151.

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