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INSIGHT INTO THE OPPORTUNISTIC FEEDING HABITS OF CHORISTER ROBIN-CHAT COSSYPHA DICHROA

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Introduction

The diet of the Chorister Robin-chat Cossypha dichroa consists largely of insects, the majority of which are beetles and ants, but does include moths, orthopterans, spiders, ticks and flies (Skead 1997). This species exhibits both extensive ground foraging and foliage gleaning feeding strategies and as such is noted to utilize all strata within respective forest systems (Symes et al 2015, Oatley 1959, Dean and MacDonald 1981, Skead 1997, Vernon and Dean 1988). Additionally, the adaptive foraging behaviour employed by Chorister Robin-chat does occasionally include associations with forest antelope, including Blue Duiker Cephalopus monticola and Bushbuck Tragelaphus scriptus (Oatley 1959). This commensal association incorporates Chorister Robin-chats deriving benefit from forest antelope disturbing prey items through their foraging activity (i.e. acting as 'beaters') (Oatley 1959). However, very few documented observations have been made of this association between Chorister Robin-chat and Bushbuck (Symes et al 2015). Due to the dense habitat structure and secretive nature of both species, obtaining evidence thereof is difficult, which could result in this association being more common than previously acknowledged (Oatley 1959, Symes et al 2015).

Camera trap observations

A camera trapping study across several forest pockets on the Ingula Nature Reserve found both Chorister Robin-chat and Bushbuck. Significantly, two spatially independent cameras across separate forests have yielded results of the Chorister Robin-chats alighting on the back and head of a Bushbuck. Both observations were documented over the same period, namely early winter (April 2017).

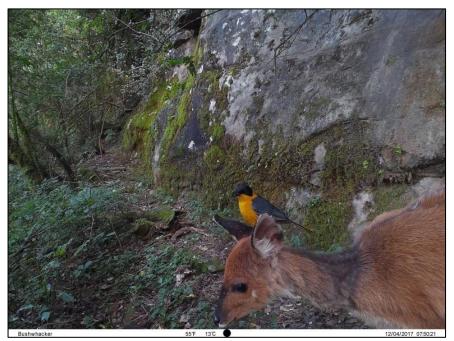


Figure 1: A chorister Robin-chat perched on the head of a Bushbuck ewe, 12 April 2017.

The first observation displayed a Chorister Robin-chat perched on a Bushbuck ewe's head, moving only when she turned to scratch herself (Fig. 1). While video footage was not available for confirming gleaning directly from the animals, there is certainly evidence that the



Bushbuck are being used as a 'beater' by the Robin-chat while foraging. The second observation at a separate forest pocket displayed a Chorister Robin-chat flying through to alight on the back of a Bushbuck ewe, after which it moved off to perch on a nearby branch (Fig. 2). The Chorister Robin-chat then continued to follow the Bushbuck ewe through the forest as she foraged.

Discussion

Our sightings, in conjunction with others made across varied provinces (Oatley 1959, Symes et al 2015), corroborate that the symbiotic association between Chorister Robin-chat and forest antelope, including Bushbuck in this case, is likely a common foraging strategy employed that largely goes undocumented due to restricted observer ability within these forest systems. Given these respective sightings and the opportunistic and adaptive foraging behaviour of Chorister Robin-chat (Oatley 1959), we postulate that the association is primarily commensal in nature with Chorister Robin-chat utilizing forest antelope (e.g. Bushbuck) as beaters. The noted occurrence of a potentially mutual relationship, whereby Chorister Robin-chat glean parasites from antelope, is likely a secondary opportunistic foraging strategy. Additional sightings from ongoing and new camera trap studies across varied temporal and spatial scales will hopefully provide further insight and clarity into this respective symbiotic association. Similarly, all records (Symes et al 2015, Dean and MacDonald 1981, Skead 1997, Vernon and Dean 1988) made thus far excluding Oatley (1959), are records of Chorister Robin-chat interacting with Bushbuck ewes. Whether this is of significance or purely a factor of respective sex-ratio densities exhibited by Bushbuck (Waser 1975) will need a more robust and conclusive database to confirm.









Figure 2: Photo sequence indicating the Chorister Robin-chat following the ewe as she foraged, 19 April 2017.



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