populations is a comparatively recent development. One gains the impression from the material studied that the situation is perhaps still fluid.

It is significant that in *hartlaubii* subssp., apart from the hoariness over the distal head common to many *Turdoides* spp., there is no indication in any of the specimens examined that odd mutants resembling *leucopygius* races occur in the said populations.

Resulting from this enquiry, it is concluded that it is desirable to split the present species *Turdoides leucopygius* into separate northern and southern species, that on the South African list becoming

**Turdoides hartlaubii** (Bocage) Hartlaub’s Babbler, with races *T. h. hartlaubii* and *T. h. griseosquamatus* Clancey, 1974.

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**References**


**Syringeal Morphology and Relationships of Chaetops (Timaliidae) and Certain South African Muscicapidae**

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The genus *Chaetops* comprises two taxa of petrophilous ten-primaried oscines endemic to South Africa. These have usually been treated as conspecific subspecies, but Winterbottom (1973), followed by Clancey (1980), has suggested that their allopatric distribution, differences in size, proportions of the tail, and coloration, argue for the eastern form, *C. aurantius*, being considered specifically distinct from the typical western form, *C. frenatus*. I concur in this, because treating the two forms as conspecific only obscures their differences and implies a state of knowledge concerning their relationships that does not exist.

The name *Chaetops* was originally proposed by Swainson (1832) in the Merulinae (= Turdinae), and he rendered the name as *Chaëtops*. Modern rules of nomenclature proscribe diacritical marks, which in this case is just as well, as there is no etymological justification for the diaeresis. Despite the original association of *Chaetops* with the thrushes, for most of its taxonomic history it has been placed in the Timaliidae, especially after Sharpe (1883) propounded his much expanded concept of that family, wherein *Chaetops* appeared in his “Group 7” or “Crateropodes”. A timaliid relationship for *Chaetops* is reflected in many standard works on African birds (e.g. Sclater 1930; McLachlan & Liversidge 1978).

The return of *Chaetops* to the thrushes evidently dates to Ripley’s (1952:15) remark that “*Thamnolaea*, a much larger bird [than *Pentholaea*], approaches the wheatears [*Oenanthe*] as does *Chaetops* which resembles it in pattern”. In this work he placed *Chaetops* between *Thamnolaea* and *Myrmecocichla*, whereas later (Ripley 1964), *Chaetops* appeared between *Pinarornis* and *Drymodes*. On the basis of the syrinx, however, *Drymodes* was
subsequently shown not to be a thrush (Harrison 1976). A turdine relationship for Chaetops has lately been adopted by many authors. For example, White (1962) considered Chaetops to be close to Cercotrichas (sensu lato) and Hall & Moreau (1970:114) regarded Chaetops as "typically turdine in its colour and pattern", and they thought it to share characters with Monicola and Cercotrichas. In the S.A.O.S. Checklist (Clancey, 1980) Chaetops is placed in the Turdidae, between Pinarornis and Erythropygia. Hitherto, all judgements concerning the systematics of Chaetops have been made solely on external characters.

In a most important and satisfying study of syringeal morphology, Ames (1975) showed that the "true" muscicapids (Muscicapini auct.) and the thrushes (Turdinae auct.) share a unique, presumably derived, condition of the syrinx wherein the muscles M. bronchialis posticus and M. broncho-trachealis posticus form a distinct bulging projection, visible to the naked eye, that Ames termed the "turdine thumb". Such a distinctive character is of immense value in attempting to ascertain relationships among members of the extremely homogeneous group of oscine passerines.

Although Ames (1975) adopted a basically conservative taxonomic approach, I would carry his discovery to its logical conclusion by defining the Muscicapidae on the presence of the "turdine thumb". Thus the family would include the typically muscicapine genera Muscicapa, Niltava, Ficedula, Rhinomyias, Melaenornis (including Bradornis), as well as the true thrushes (see Ames 1975: Table 1). I would not continue to separate the thrushes as a subfamily, Turdinae. As Ames (1975:116) noted, the muscicapine genera are less diverse than the thrushes "but many are far from typical flycatchers in the sense that Muscicapa striata is usually considered to be", and it certainly has not been demonstrated that either of these subgroups is monophyletic.

Any species that lacks the "turdine thumb" would have to be excluded from the Muscicapidae, as defined by syringeal morphology, until some other specialized character can be found by which to define a larger family-level taxon.

There were a few genera of "Old World Insect Eaters" for which Ames was unable to ascertain the morphology of the syrinx, among which was Chaetops. This was due to the lamentable lack of emphasis that collectors in South Africa have placed on the preservation of anatomical speci-
Rebelo, and for following me I must also thank Vincent Bartnick, my wife Helen F. James, and son Travis, all of whom suffered the rigours of extended climbs in search of an often elusive quarry. I am also grateful to Richard K. Brooke for information concerning Chaetops and to him, P. A. Clancey, and R. Pry-Jones for comments on the manuscript.

REFERENCES


Some habitat parameters of the Orangethroated Longclaw

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The Orangethroated Longclaw Macronyx capensis is a fairly common grassland bird, yet, apart from some taxonomy, not much research has been done on its biology. A study was carried out on the habitat requirements of the Orangethroated Longclaw at the Roy Hesketh race-track, Pietermaritzburg (29°37'S; 30°26'E, 715 m a. m. s. l.) from April to September 1981. The vegetation of the study area is mainly Southern, Tall Grassveld (Aocks 1975, Veld types of South Africa. Pretoria: Government Printer) interspersed with small pockets of Acacia thornveld. Late in March about 6,0 ha was mown and baled. Early in May about 0,7 ha was burnt in the northwest corner, and on 22 July the entire area was burnt.

A 0,5-m² quadrat was used to sample the vegetation at the point where one or more birds were sighted at a time. The diameter of each tussock of each species falling within the quadrat was measured and thus the area occupied by each plant species was calculated. The height of the low component was measured by gently laying a wooden metre stick horizontally on the grass and measuring its height from the ground. The tall component was measured where the majority of the stalks ended. The density of Cephalaria humilis (fam. Dipsacaceae, a tall herbaceous dicotyledon) was measured by recording the distance to the next nearest stalk not yet measured.

The study area can be divided into six subhabitats (Fig 1.; Table 1):

A. 6.0 ha, mown area;
B. 2.2 ha, unmown area with the canopy of the short component closed;
C. 8.0 ha, unmown area with canopy of the short component open;
D. 5.6 ha, tall, rank grass (not sampled);
E. 2.5 ha, Cephalaria area (= B with a dense stand of Cephalaria);
F. 0.7 ha, burnt early May (not sampled).

Sub-habitat D was not sampled because no birds were flushed from this area nor were they seen landing in it; the mean canopy height was estimated at 900 mm with a density of approximately