

**Linguistic geography or evidence for
genetic affiliation? New proposals for the
phonological inventory of proto-Bantu**

28th April, 2011

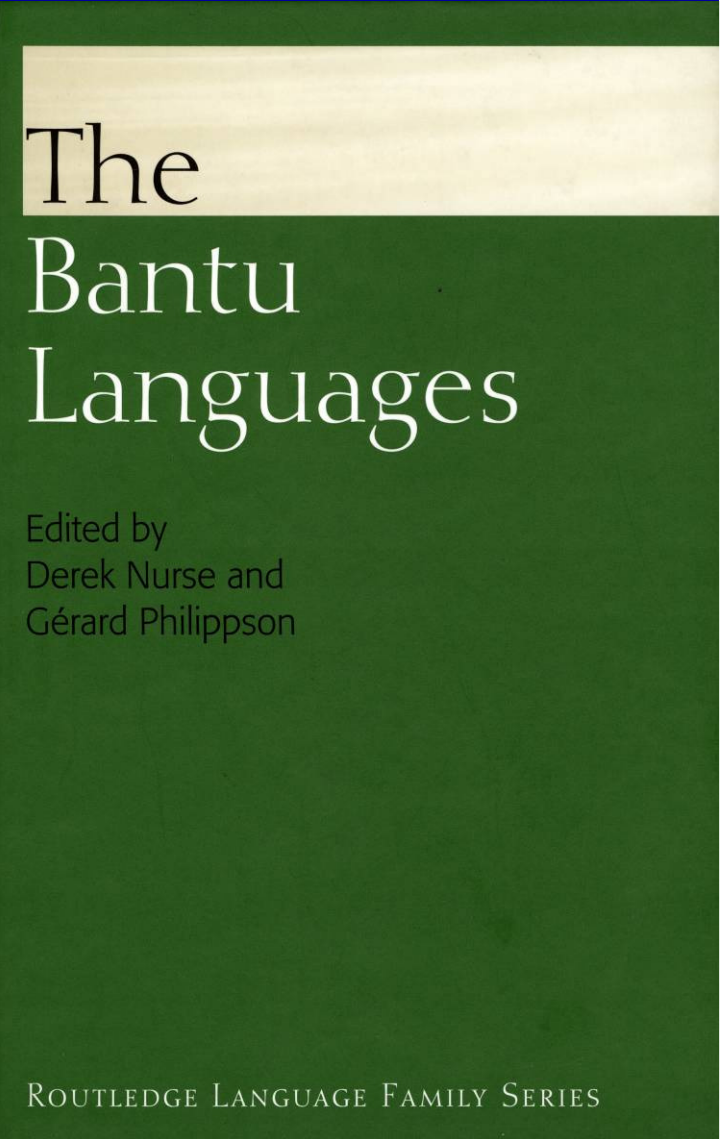
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The phonology of proto-Bantu and the power of received wisdom

- Our common understanding of the phonology of proto-Bantu derives from the work of Malcolm Guthrie in his magisterial volumes on Comparative Bantu (1967-1971)
- The revisions of Meussen made some changes to forms but almost none to the phonology
- These are enshrined in Bantu Lexical Reconstructions III, online from the Musée Royal de L'Afrique Centrale
- And in 'The Bantu Languages' (Nurse & Philippson 2003)



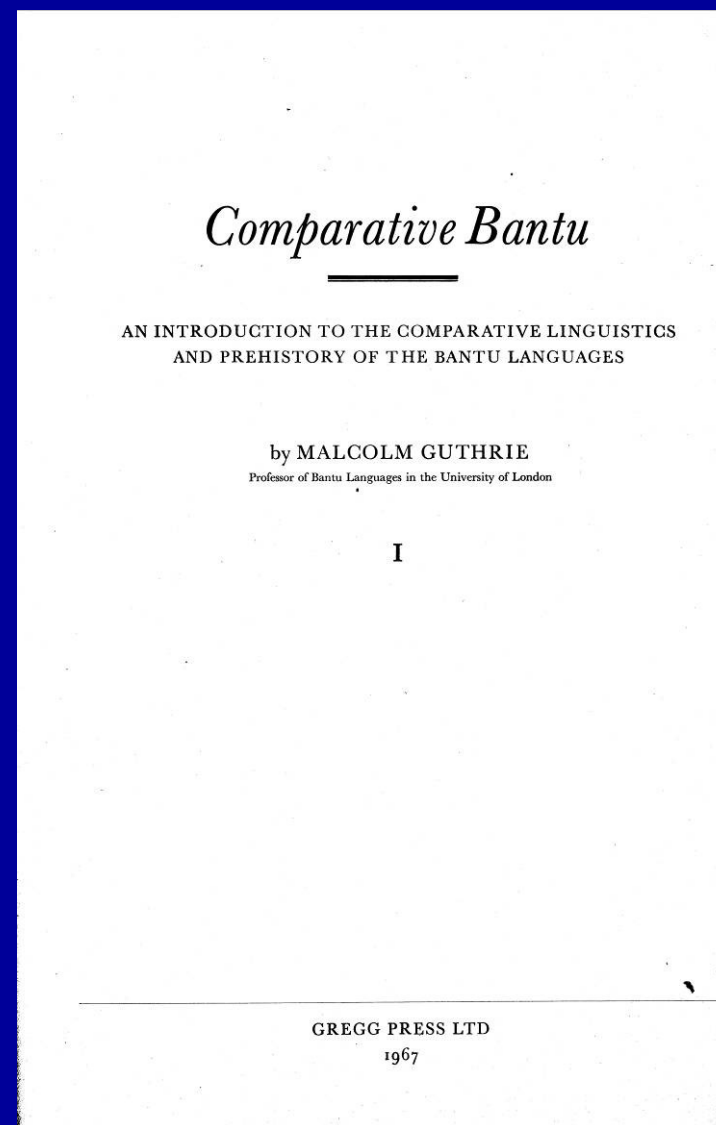
The Bantu Languages

Edited by
Derek Nurse and
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ROUTLEDGE LANGUAGE FAMILY SERIES

Guthrie's claims

- On the face of it, however, Guthrie made some strange proposals and some of them have been quietly dropped; however, historical linguists continue to compare synchronic forms against his 'Common Bantu'
- Oddly enough, even Guthrie did not claim 'Common Bantu' was a reconstruction, and distinguished this from Proto-Bantu
- But the abundance of forms cited have gradually caused Common Bantu to take on this status



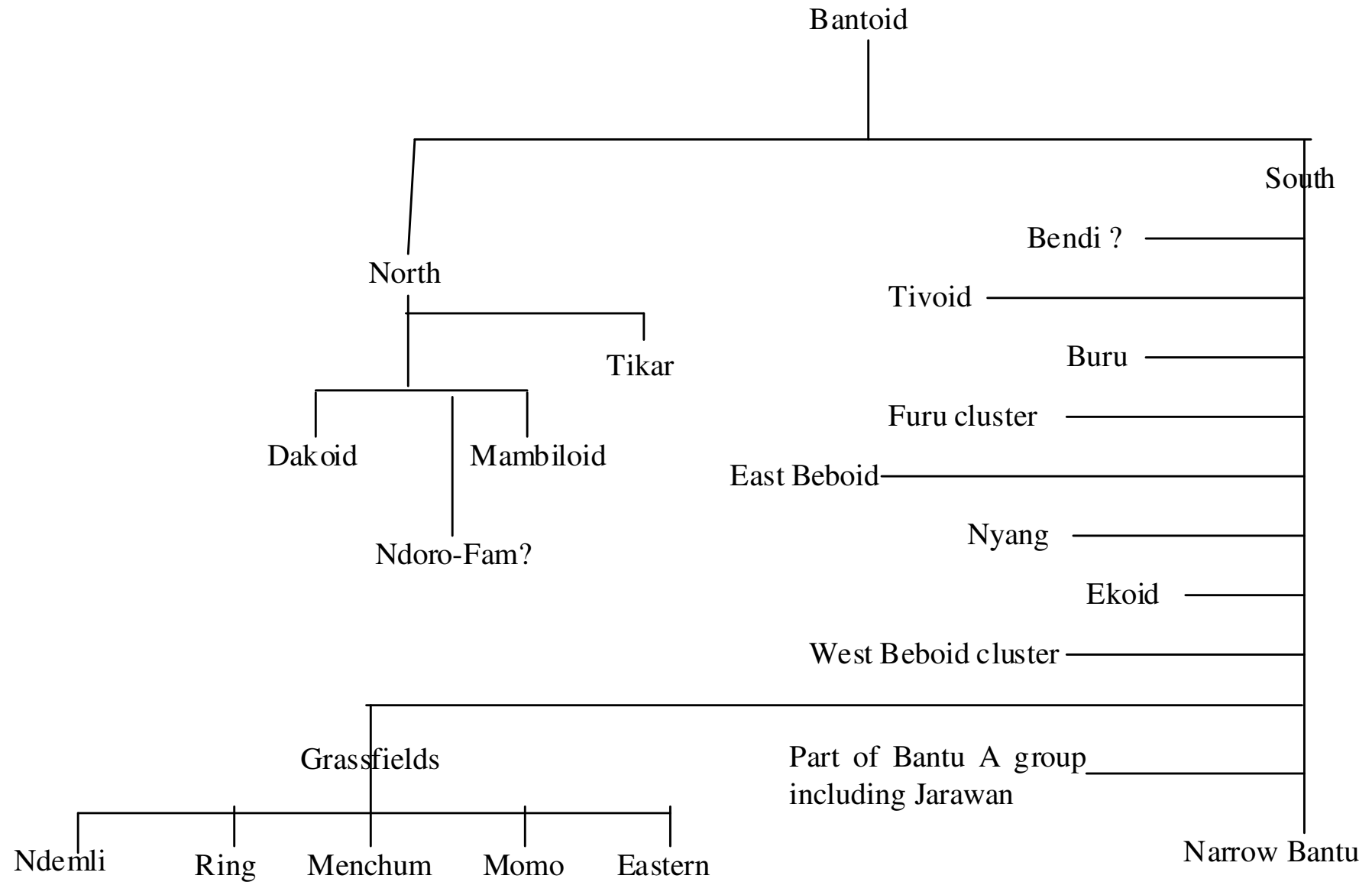
Features of Guthrie's proto-Bantu

- Seven vowels, including 'narrow vowels' $i_ɿ$ and $u_ɿ$
- No nasal or fricative vowels, no ATR vowel harmony (which wasn't really understood at that period)
- No labial-velars, i.e. /kp/, /gb/ and /ŋm/
- Two tones, no glides, downstep etc.

Problems with Guthrie's proto-Bantu

- However, as we have learnt more about early Bantu, i.e. Zones A-D this is increasingly problematic because we do find;
 - Few, if any languages with a vowel-system such as posited by Guthrie
 - Bantu languages with nine vowels and ATR vowel harmony
 - Some languages with fricative or pharyngealised vowels
 - Many languages with labial-velars
 - Some languages with three tone-levels and complex glide tones
- And the actual border between Bantoid and Bantu remains elusive

A recent proposal for Bantoid/Bantu

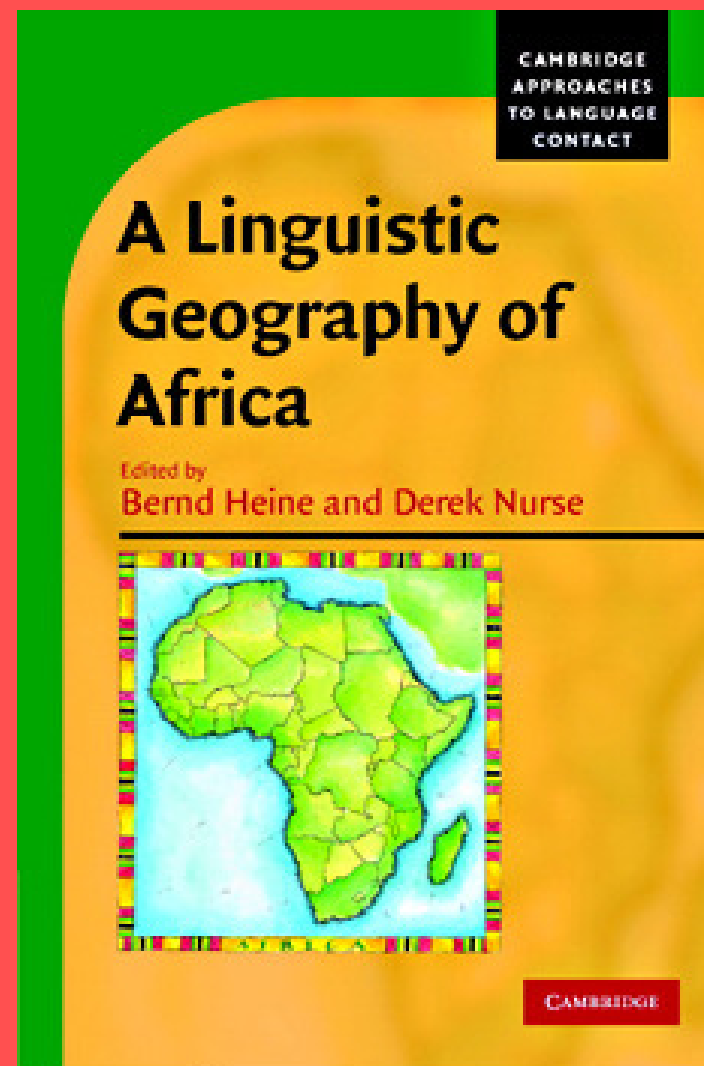


So does this mean Guthrie was wrong?

- 🌐 Well, it would seem so, but no revisionist Bantu phonology has been proposed
- 🌐 And in the meantime, a new model has begun to gain ground, the 'linguistic geography' paradigm
- 🌐 Roughly, the presence of these features is part of a geolinguistic zone and therefore cannot be attributed to the genetic unit Bantu is intended to represent
- 🌐 So how does the 'linguistic geography' paradigm work?

Linguistic geography versus genetic affiliation

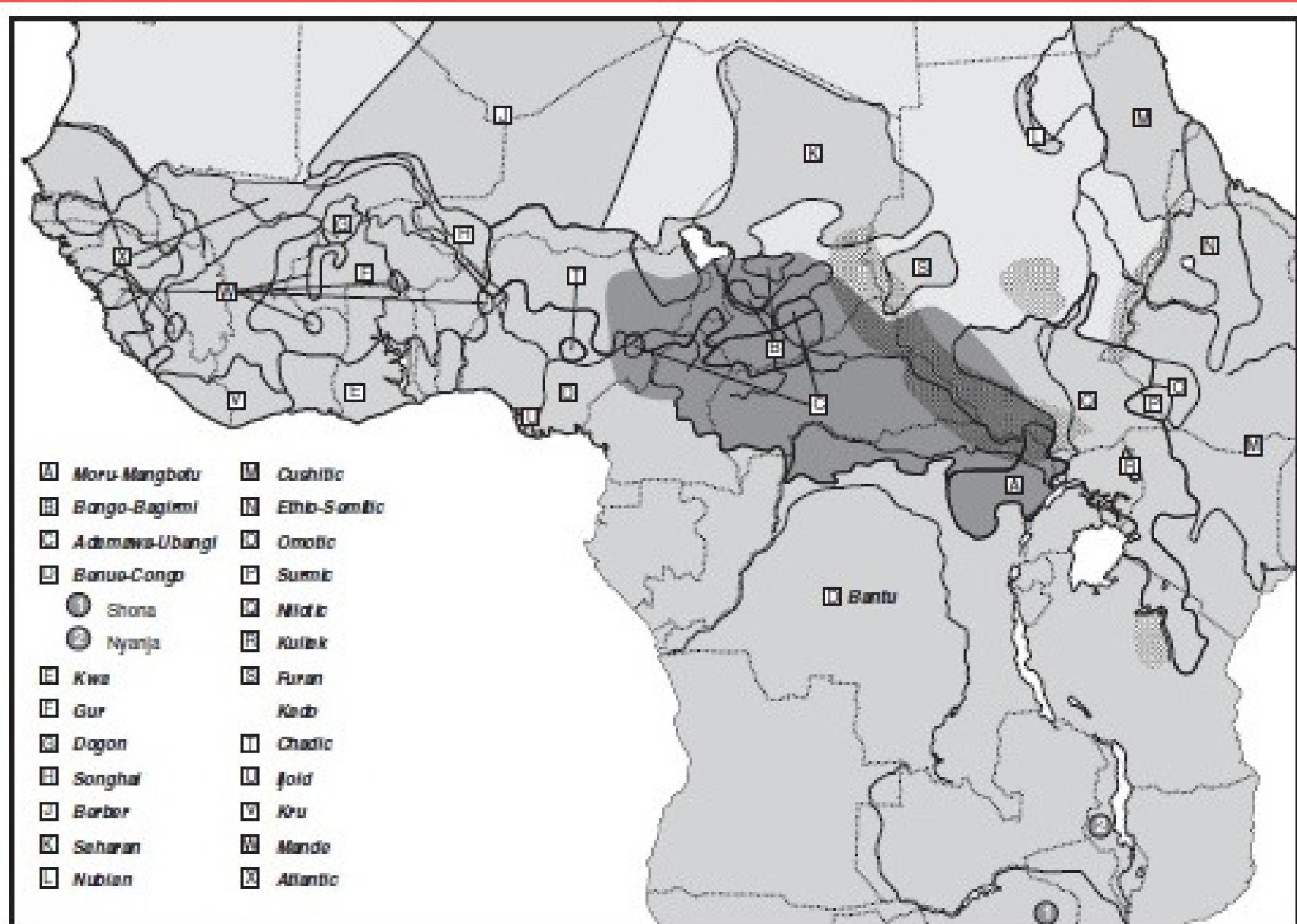
- African historical linguistics has chugged along fairly happily with the 'four-phylum' model (prop. Joseph Greenberg) and in particular with Niger-Congo, a version of which goes back to Bleek (1855) but which took on its main form with Westermann (1927)
- However, recent times have seen it challenged by linguistic geography models, especially by Tom Guldemann and others in the Heine/Nurse volume on African Linguistic Geography



Linguistic geography versus genetic affiliation

- The claim here is that we have mistaken *Sprachbund*-like phenomena for evidence of genetic affiliation and that the distribution of various phonological and morphosyntactic features of African languages argues for what Guldemann calls a 'Macro-Sudan' Belt
- There is little doubt that contact phenomena play an important role in the evolution of African phonological inventories
- And that some phenomena easily cross language phylum boundaries. One example of this is the labio-dental flap, first plotted by Greenberg in 1983 and in more detail by Olson & Hajek in 2004

Distribution of the labio-dental flap



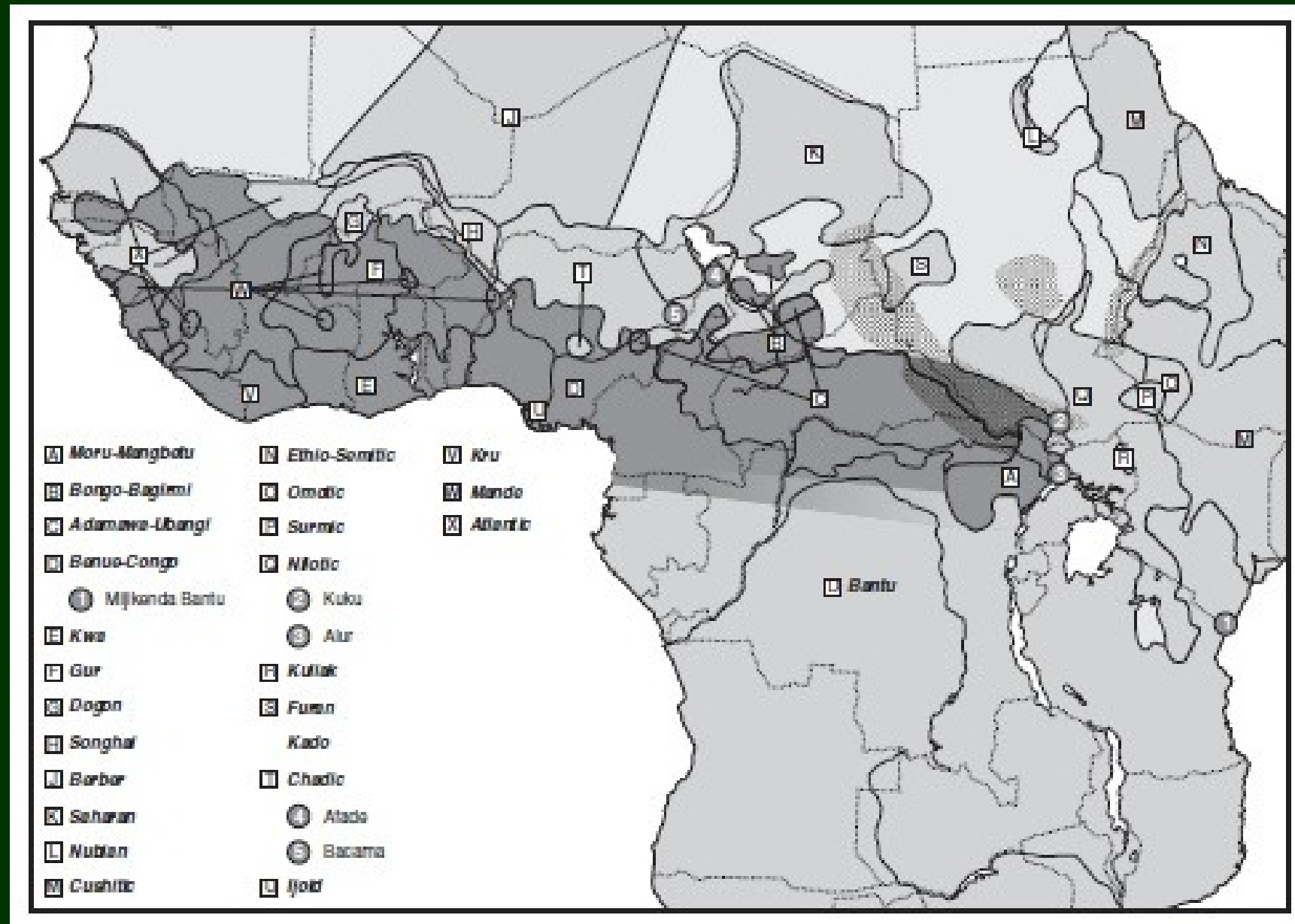
Linguistic geography versus genetic affiliation

- The distribution leaves little doubt that the labio-dental flap is easily transmitted from one language to another and crosses phylogenetic boundaries freely
- Oddly enough, it seems to do this without direct lexical borrowing and may occur in various areas of the lexicon in different languages.
- It thus appears to be an iconic phoneme
- But other types of phonological phenomena are not and too confuse the two is to compound a methodological error
- This presentation will argue that the absence of various phonological features in much of Bantu is because of restructuring *not* linguistic geography

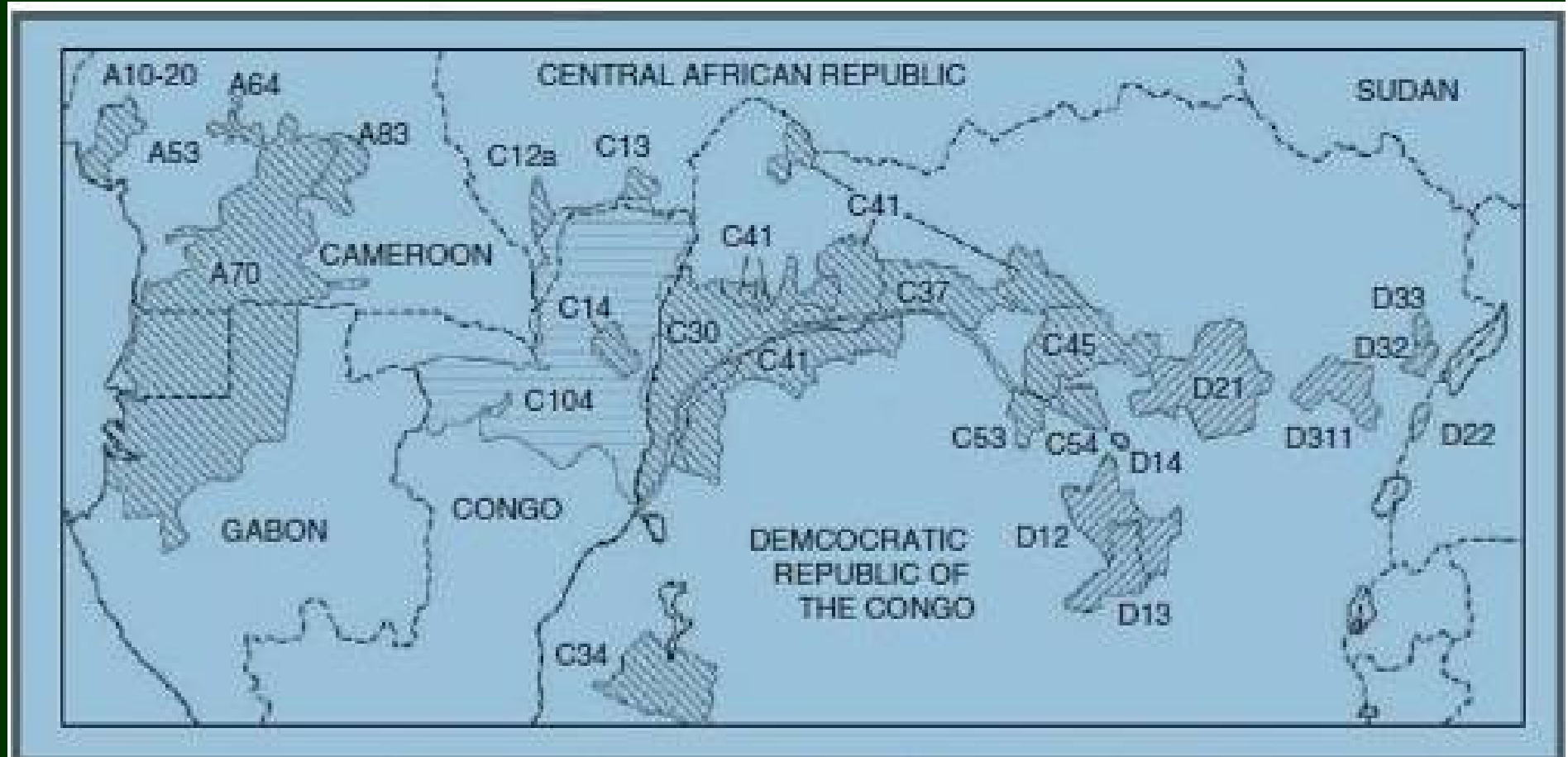
Labial-velars

- The labial-velars, i.e. /kp/, /gb/ and /ŋm/ are characteristic of all branches of Niger-Congo except Dogon and most Kordofanian. /kp/ and /gb/ are also throughout Central Sudanic (Nilo-Saharan)
- They are not clearly found anywhere else in the world, so they look like a genetic feature
- However, they are only found along the Northern edge of the Bantu area, principally in groups A, C, D with an outlier among the Mijikenda on the East African Coast
- But they are omnipresent in all the branches of Bantoid closest to Bantu (as defined by Guthrie)
- For them *not* to be present in proto-Bantu, and then to be borrowed back in makes for a contorted argument

Labial-velars in Africa



Labial-velars in Bantu



○ Also in some Mijikenda languages on the Kenya coast
(and in Kordofanian, despite previous map)

○ From: Clements and Rialland (2008)

Nine-vowel systems and ATR vowel harmony

- Most Bantu languages have seven or even five vowels, although the 'extra' vowels are mid-vowels, as elsewhere in Niger-Congo
- But along the northern border, in A60 Mbam languages and C and D group languages such as Bila, Lika, Budu, Vanuma etc. have nine-vowel systems arranged via strict ATR harmony systems.
- Nande has nine surface vowels: underlyingly seven with an ATR contrast in the high vowels
- Sotho etc. have nine vowels but these do seem to have developed recently
- The 'missing' vowel is the second central vowel, as is many Bantoid languages
- It has been suggested that these nine-vowel systems were rebuilt by contact with Central Sudanic although if so, the evidence for this has not been presented

Nine-vowel systems and ATR vowel harmony

- However, more recent analyses point to there being two distinct types of seven-vowel system in DRC Bantu
- One system has one high vowel, two mid vowels and mid-vowel harmony.
- The other system is two high vowels [+ATR] and [-ATR], and one mid vowel, underlyingly [-ATR], with a [+ATR] allophone when preceded or followed by [+ATR] /i/ or /u/.
- Harmony functions differently in these two systems and the boundary between the them is somewhere in Eastern DRC.
- Plus, there are also seven-vowel systems which have independent vowels.
- Is this evidence for an archaic nine-vowel system eroding along differential pathways?

How many tones? I

- Most Bantu languages have two level tones, and few, if any glide tones
- However, in a now familiar pattern, some have three, especially those in C and D (including Bila) and those in part of the A group, for example Məŋgisa and languages of the Mbam group
- The origin of the three tones in C and D languages is analysed as depressor consonants, but this does not prevent the system from being reconstructed further back into Bantu
- And these languages also have more complex glide tones
- Three-tone languages may thus be archaic not modernising

How many tones? II

- The tone levels of many Grassfields languages are disputed
- It was decreed long ago that Grassfields had two tones, and of course any tonal system can be reduced with sufficient recourse to 'underlying' tone.
- Three tones can always be dismissed as 'phonetic'
- But it is more likely that a three tone analysis holds for most Grassfields as well as other Bantoid
- Three-tone languages may thus be archaic not modernising

Pharyngeal/fricative vowels I

- There have been scattered accounts of pharyngealised or fricative vowels in the Bantu/Bantoid area, particularly in Fang, but the first author to pull these together was Connell (2001) who observed that these occur in Len (Mambiloid) and other languages in this area
- Connell also noted that in some cases the special vowels appeared to be cognate across languages, which would usually be evidence for their presence in proto-Bantu (and indeed in Bantoid)
- He argues that they correspond the first-degree vowels in reconstructed proto-Bantu
- Fricative vowels have that property that once you are on the lookout for them, you hear them more clearly
- For example, in Bagyele (A80), where they are manifestly present, Renaud wrote a 2-volume thesis on its phonology without mentioning them

Pharyngeal/fricative vowels II

- Since the work of Bruce Connell, there is considerably more evidence for fricative vowels. The present 'map' of their occurrence is;
- Len Mambila
- Mundabli (Yemne-Kimbi aka West Beboid)
- Eastern Grassfields (e.g. Chufie') and Limbum (certainly)
- Jarawan Bantu (recently recorded; noticed by previous researchers)
- Bantu A80 languages (Kwasio, Gyele)
- Fang group (B group Bantu)

Pharyngeal/fricative vowels III

- With a couple of occurrences, this could be dismissed as independent evolution
- However, fricative vowels are fairly rare, globally, although they occur in Chinese
- With this chain of examples almost throughout Bantoid, it would be much more reasonable to assume *that fricative vowels were present in proto-Bantu* and have only survived sporadically
- It is reasonable to predict, on the basis of recent discoveries that more example will be uncovered

And so?

- ❖ It seems there is *a priori* evidence for a very different approach to the phonological inventory of proto-Bantu than that presented in the textbooks
- ❖ The basis for this is features which are present in Bantoid (or Niger-Congo more generally) and also in 'early' stages of Bantu
- ❖ There is no present way to reach definitive answer because the numbers of fieldwork-based phonologies of the relevant languages is still very small
- ❖ And indeed because we have no convincing genetic classification of Bantu A, marking it off from Bantoid

But we can say that

- ❖ There is more to this than linguistic geography. This approach confounds iconic phonology (labio-dental flaps) with genetic features (labial-velars)
- ❖ A more credible interpretation is that early Bantu looked much more like its immediate relatives in Grassfields, Beboid etc. and that these features survived sporadically in isolated languages near the homeland
- ❖ But were eliminated in a major wave of restructuring that occurred subsequent to the initial Bantu expansion ca. 4000 BP
- ❖ The co-occurrence of archaic features in C and D languages in NE DRC strongly points to an early wave of movement along the forest/savanna ecotone

Proto-Bantu might have had;

- Pharyngealised/fricative vowels.
 - 9/10 vowels with \pm ATR harmony
 - Three tone levels
 - Labial velars. kp/gb/ ?ηm
- We won't know the answers until we are more willing to try out new mental models and scrap the old approaches

THANKS

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