## TONGA HISTORICAL NARRATIVE

to sing,2 it is as I have said, the story of this girl is thus.' jere". But as for me I have finished the tale of the girl. he. We entered here into the car, this is she, sitting down, because she refused. Now this is the girl, let her speak too imba dancing at night, there was dancing at the cilimba song to me, called "Mangwenjere". Yes, they sang a I danced at the cilimba at night, again I spoke to her and marry, then, in here, 1 the girl I tried to marry is here, we y, (then) I left it alone. The girl is here today, that girl is ear) I now began to think, and we talked with a woman, t want to get married at all." I left the girl alone, I tried a girl. The girl refused and said, "No, I don't want to get get married." Yes, I left it alone, I left it alone like that. said, "I don't want to get married;" when I arrived, in Yes, the girl started and said, "Not me, my father has , "I don't want it, my father has refused." I left her

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as sitting beside him in the landrover when the recording was made sing the song 'Mangwenjere' mentioned earlier in his story.

# DAHL'S LAW AND THAGICU

### By PATRICK R. BENNETT

first step in the introduction of a general form of Dahl's Law into the language. nor could I accept the possible inference from the statement that it might be the similar; but I saw no way to account for its affecting only the velar in Kikuyu, first of any series of two voiceless stops. The phenomenon was admittedly a connection with Dahl's Law, which was presented simply as the voicing of the was what was meant; but I at once rejected as improbable the suggestion of it was clear that the change of k to g in certain environments in that language ment. It may be said to have begun when I read in the discussion of Dahl's Languages, Berlin, 1932, page 183) the sentence, 'Cf. also Gikuyu, where Dahl's Law also appears to be at work.' From the work I had already done with Kikuyu Law in Meinhof and van Warmelo (Introduction to the Phonology of the Bantu The hypothesis presented in this discussion has been gradual in its develop-

ment, unrelated to Dahl's Law. that it would have been necessary to assume that it was an independent developnot even accept that it could be a recent introduction from another language, so split between the two. Because of the geographical position, however, I could phenomenon in the one as to the introduction of the rule in question after the exists in the other seems to me to point not so much to the retention of an old related forms of speech one should have a rule of this sort of which no trace 1 in Kikuyu with Dahl's Law seem even less reasonable; that of two so closely dissimilation of Kikuyu, would have made the identification of the phenomenon are to a very large extent mutually intelligible, but lacks the Dahl's Law-like work I had done with Kamba, which is so closely related to Kikuyu that the two connection between Dahl's Law and the similar dissimilation in Kikuyu. About a year later, however, I again began to consider the possibility of a

relative to one another, and concluded that the phenomenon in Kikuyu might be the two languages in the phonetic shifts undergone and their apparent ordering not merely similar to Dahl's Law, but also actually a form thereof in respect to the phenomena in question on the basis of the differences between by the phonetic shifts the language has undergone. Seeing this, and noting the logic situation, I found it possible to account fairly reasonably for the differences similarity of the phenomenon in Kikuyu as well as the differences in the phonohas a general form of Dahl's Law whose working has been very much complicated Work with Luhya, however, gave me an alternative to this conclusion. Luhya

Kamba which, when compared with their Kikuyu equivalents, seem to show the remains of an old k > g shift; but in the vast majority of cases it is true that there is no sign of anything

After, however, fairly intensive investigation of the interrelationships of the members of the group of languages or dialects to which Kikuyu and Kamba belong, in the course of which I had become aware of a large body of new and relevant data and had my estimate of the significance of some of those available earlier drastically revised, I found it necessary to alter my ideas about the history of Kikuyu considerably. It was, however, still possible to account reasonably for the divergent form of Dahl's Law in Kikuyu, and for those in the other dialects as well.

Evidence which I have acquired since then has not forced a further alteration in my views, though some points which, being based on inaccurate or incomplete information, were doubtful have been clarified. I can, I think, feel safe in thus recording my conclusions: I see no reason to expect that any further evidence from within the Thagicũ group will make any significant change necessary, nor do I think it likely that external evidence will have much effect.

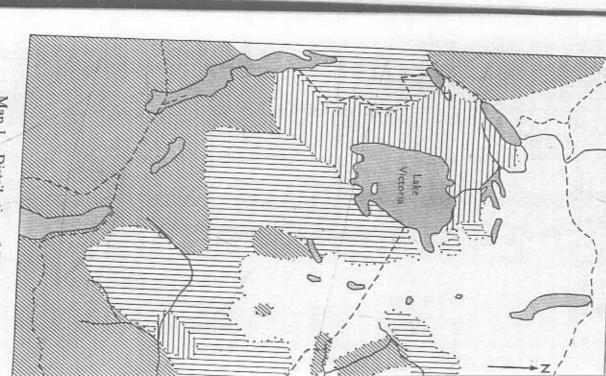
What follows, then, is a discussion of the various phenomena resembling Dahl's Law in a number of forms of Bantu spoken in Kenya belonging to the group of very closely related languages or dialects here called Thagicũ¹ which show phenomena resembling Dahl's Law which vary considerably in exact form and range of application. Its purpose is not merely to record the facts, but to attempt to provide a tentative explanation of these differences, assuming that the

phenomena are related.

Our knowledge is not sufficiently wide and detailed to allow a similar discussion of the similar and possibly related phenomena in East Africa as a whole; I shall, indeed, try to show that it is apparently possible to account for the differences between the phenomena in Thagicũ and those in some other languages of Kenya, but, though I personally think it most likely that Dahl's Law, in spite of its formal diversity, is but one phenomenon, it is too early to draw any definite conclusion.

I shall first discuss the actual situation within Thagicũ and then present an explanation based on the relative chronologies, within the various dialects, of the linguistic changes affecting the form of Dahl's Law (as I shall continue to call it), in an attempt to show that the superficial differences can reasonably be put down to historical factors rather than to differences in the original change, and that therefore Dahl's Law may be a single phenomenon. Of the various dialects of

The term Thagicū is not commonly in use; the group is more usually known as the 'Kikuyu Group'. However, the latter term has the disadvantage that it singles out one member of the group, which, though indeed the largest and at the moment best-known member, is in many ways one of the least typical. The name 'Thagicū' is, in various forms and in various ways, associated with all the major subdivisions of the group, and there is some reason to believe that it was in fact the name of the tribe from which they are all derived; it has the advantage that no member of the group known to me calls itself by that name in that form (though 'Segeju' and Adaiso, the Segeju name for the tribe, are obviously variants of it); and it allows one to speak simply of 'Thagicū' instead of forcing one, to avoid confusion with the Southern Kikuyu dialect or the Kikuyu sub-division, which includes Northern and Southern Kikuyu.



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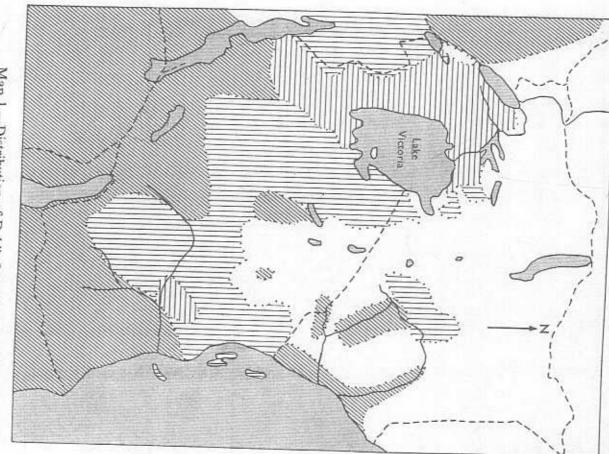
ve acquired since then has not forced a further alteration ne points which, being based on inaccurate or incomplete tful have been clarified. I can, I think, feel safe in thus ns: I see no reason to expect that any further evidence I group will make any significant change necessary, nor external evidence will have much effect.

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Map I.—Distribution of Dahl's Law in East Africa.

| Dahl's Law | Dahl's Law | Bantu languages without | Canguage boundaries here marked with dotted line for clarity; some boundaries are uncertain.)

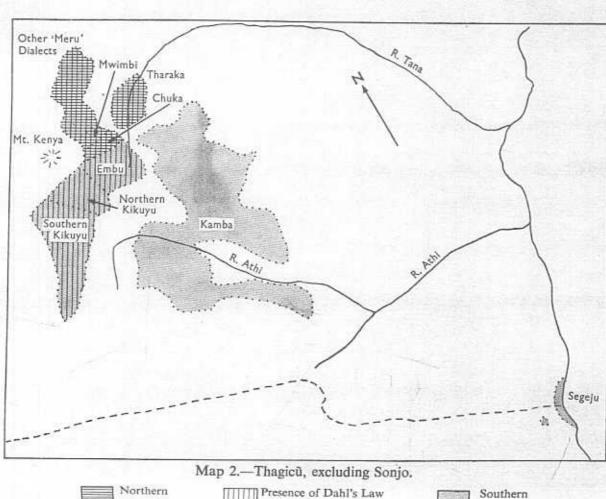
situations in Gusii and Luhya, two other Bantu languages available to me, not simply of the six enumerated above. evidence) are the product of consideration of all the d apparent interrelationships of the dialects, as deduced from so-called 'Meru' dialects-neither politically nor lingu various dialects, modified on the basis of the evidence from (which are based on the internal ordering of 'morphop! Other dialects will be referred to on occasion, and of cour in any detail, partly to avoid fruitless repetition, partly l much of a unit as one might be led to believe), and Th Thagicu, only Southern Kikuyu, Embu, Kamba, Segeji DAHL'S LAW AND THAGICU

The sources from which the materials on which this art

different dialect. For Segeju I have relied upon 'Sprachpro in the spring of 1966 by Miss Carol Eastman of the Linguis a small amount of information collected during a brief stay Tharaka Grammar, Upsala, 1914, which is unfortunately and Mwimbi material is again based on my own work, University of Wisconsin, supplemented from Gerhard Lin The Tharaka data come primarily from a tape-recording ma part upon T. G. Benson, Kikuyu-English Dictionary, Oxfo are various. For Southern Kikuyu I have relied in part o

and many others too numerous to mention, to whom I am and friends who have been of invaluable assistance, lingui of the School of Oriental and African Studies, and Mrs. idvice, encouragement, and assistance. indirectly; Mr. Joshua Mutia and Mr. Eliphas J. Mburea, to providing me with some of the materials upon which this Miss Carol M. Eastman of the University of Wisconsin, f own researches, supplemented by L. L. Appleby, A First Luy by material recorded by me in Nairobi, while the Luhya rep by Ernst Dammann (Zeitschrift für Eingeborenen-Sprachen, 1 should perhaps single out Professor Malcolm Guthrie and Sampala, 1960, and Practical Introduction to Gusii, Nairob Of those to whom thanks are due for their contri The Gusii is drawn from W. H. Whiteley's The Ti

Kamba, and Mwimbi I have used the standard orthogr The orthographic conventions on the whole reflect the so -but the shorter expression, though less p



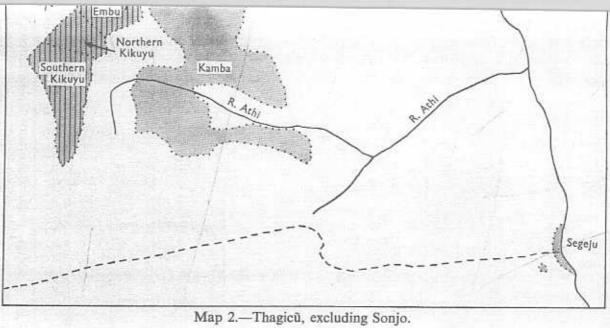
Presence of Dahl's Law

Northern

lo give people in the field some indication of the phenomena to which orms which underly them octween the phonetic, realized, superficial forms of the language and the Frate-it would be more accurate to say 'statements of the relation I dislike the term 'morphophonemic', and even the word 'rule

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(one of the



Northern

Presence of Dahl's Law

Southern

available to me, not simply of the six enumerated above. A comparison with the evidence) are the product of consideration of all the data on all the dialects apparent interrelationships of the dialects, as deduced from linguistic and historical

various dialects, modified on the basis of the evidence from other dialects and the (which are based on the internal ordering of 'morphophonemic' 1 rules in the Other dialects will be referred to on occasion, and of course the tentative histories in any detail, partly to avoid fruitless repetition, partly because of lack of data. much of a unit as one might be led to believe), and Tharaka will be discussed

between the phonetic, realized, superficial forms of the language and the phonologic, structural I dislike the term 'morphophonemic', and even the word 'rule' is somewhat inappropriate—it would be more accurate to say 'statements of the relationships and differences and many others too numerous to mention, to whom I am deeply indebted for Kamba, and Mwimbi I have used the standard orthographies, advice, encouragement, and assistance. and friends who have been of invaluable assistance, linguistic and otherwise; indirectly; Mr. Joshua Mutia and Mr. Eliphas J. Mburea, two of my informants providing me with some of the materials upon which this is based directly or of the School of Oriental and African Studies, and Mrs. Michael Olinick and Miss Carol M. Eastman of the University of Wisconsin, for their kindness in should perhaps single out Professor Malcolm Guthrie and Mr. T. G. Benson, own researches, supplemented by L. L. Appleby, A First Luvia Grammar, Nairobi, by material recorded by me in Nairobi, while the Luhya represents primarily my by Ernst Dammann (Zeitschrift für Eingeborenen-Sprachen, Band XXVII, pp. 223-1961. Of those to whom thanks are due for their contributions to this work Kampala, 1960, and Practical Introduction to Gusii, Nairobi, 1956, supplemented different dialect. For Segeju I have relied upon 'Sprachproben aus dem Segedju a small amount of information collected during a brief stay in Kenya in July, 1966. in the spring of 1966 by Miss Carol Eastman of the Linguistics Department of the and Mwimbi material is again based on my own work, and for Embu I have part upon T. G. Benson, Kikuyu-English Dictionary, Oxford, 1964. The Kamba haraka Grammar, Upsala, 1914, which is unfortunately obviously based on a University of Wisconsin, supplemented from Gerhard Lindblom's Outlines of a The Tharaka data come primarily from a tape-recording made for me in Mombasa ire various. situations in Gusii and Luhya, two other Bantu languages of Kenya, will follow. The orthographic conventions on the whole reflect the sources: for Kikuyu, The sources from which the materials on which this article is based are drawn The Gusii is drawn from W. H. Whiteley's The Tense System of Gusii, For Southern Kikuyu I have relied in part on my own material, in with slight

forms which underly them \*--but the shorter expression, though less pleasing, is more likely to give people in the field some indication of the phenomena to which I refer, though not of how I regard them.

mark vowel length not indicated in the normal orthography. For Tharaka and Embu I have used a slightly modified version of the same (the three dialects mentioned above use basically the same orthography, that of Kamba being the somewhat normalized his transcriptions, which utilized the (for a Thagică dialect rather unsuited) Swedish Dialect Alphabet of J-A. Lundell. For Segeju I have in the transcription used in Whiteley's Tense System of Gusii, and for Luhya is used a slightly modified form of the normal orthography.

When discussing past forms and isolated phonetic units I use a more conventional phonetic transcription, with some influence from the Kikuyu orthography; in place of w and y the regular vowel symbols are used; h is used to indicate aspiration of an immediately preceding stop. The following should be noted:

th (Kikuyu, Kamba, Mwimbi, etc.) equals 8.

b, g (Kikuyu, Mwimbi, Embu, Tharaka) in intervocalic position equal \$, y. i, u, i, û, e, o (everywhere except present Chesi: T. L. ).

i, u, ī, ū, e, o (everywhere except present Gusii, Luhya) equal i, u, e, o, ɛ, ə, respectively.

c (except Gusii and where c = ts must be distinguished from 6) equals 8 or 6, varying with dialect and individual.

w', w (Kamba) equal u, u.

\* marks a hypothetical form.

\*\* marks a fictitious form (i.e., one one has no reason to believe exists or existed).

† marks a structural, rather than a realized form—†j, for example, means, 'everything, whatever its realization, which is a reflex of \*j or those units which have merged with it'.

C, K, G, F, and V stand for any consonant, voiceless stop, voiced stop, fricative, and vowel, respectively.

# indicates a word boundary.

II is used before a statement of environment.

equals zero.

It should be noted that the tones marked on Kikuyu forms represent not the realized tones, but rather the structural tones, or, if one prefets, the tones found on words in other dialects (specifically Mwimbi) which are cognate with the words in Kikuyu which belong to the tonal class of Kikuyu in question (this is necessary, as Kikuyu, both Northern and Southern relationship between structural and realized tone). In Kikuyu forms, only the stems of nouns and the first syllable of the stems of verbs are marked; in the other dialects each syllable is marked. Where no tone is marked, the tone is unknown to me.

'Dahl's Law' is a dissimilatory phenomenon, or given to a number of similar dissimilatory phenomens Bantu languages of East Africa and named after Edm Nyamwezi. Its geographical distribution is very lim northeastern corner of the Bantu area, its limits being on the north, Hebe and Bena on the south, and Nyamot, by any means, present in all the languages spoken in a number of those in which it is to be found it experienced.

Even in those languages in which Dahl's Law doe considerably in both form and range of application. Dahl originally formulated it, it takes the form of the consonant for the first of a series of two voiceless aspira general form, as, for example, stated by Meinhof in the Gesetz', ZDMG, Band 57, pp. 299–304 ('Wenn in aufeinanderfolgende Silben mit einer stimmlosen Explosional languages (as, for example, Luhya, where the product is a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or, in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops or in at least a statement holds good for Nyamwezi and the other languaging consonants are not stops of the languages concerned the languages concerned the languages of the languages concerned the lan

In some languages, as in Luhya, Dahl's Law does n affected; while in at least one language, Gusii (I do na consonants followed by suffixes are affected. In some language are affected. In some language, Gusii (I do na consonants followed by suffixes are affected. In some language where a consonant formerly found between two other has been lost; in other languages it does apply in such the suffixes are affected.

In addition to such restrictions on the occurrence of the position within word or morpheme of the two consonates the various languages revisions of the general statement of state more accurately the range of consonants which conditioned; to say simply 'voiceless aspirate' or evoiceless consonant would be incorrect in many languages only consonant affected is k, the conditioning consonant

<sup>&#</sup>x27;Throughout this discussion 'voiceless (un)aspirate' shoul (un)aspirated stop'. Except where specifically stated, it will not

sically the same orthography, that of Kamba being the ightly modified version of the same (the three dialects ndicated in the normal orthography. For Tharaka and ne marking of tone and in some cases the use of [:] to form of the normal orthography. transcriptions, which utilized the (for a Thagicū dialect Dammann's 'Sprachproben' unaltered. Gusii is given in Whiteley's Tense System of Gusii, and for Luhya is Dialect Alphabet of J-A. Lundell. For Segeju I have Lindblom's Tharaka material has been used I have

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here except present Gusii, Luhya) equal i, u, e, o, ɛ, o, ii, Embu, Tharaka) in intervocalic position equal β, γ.

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> in a number of those in which it is to be found it exists only in a very limited not, by any means, present in all the languages spoken in the enclosed area, and on the north, Hehe and Bena on the south, and Nyarwanda on the west. It is northeastern corner of the Bantu area, its limits being roughly the Thagicũ group given to a number of similar dissimilatory phenomena, found in a number of the Nyamwezi. Its geographical distribution is very limited; it is restricted to the Bantu languages of East Africa and named after Edmund Dahl, who noted it in 'Dahl's Law' is a dissimilatory phenomenon, or more accurately the name

qualifications must be made to produce a wholly accurate statement, a statement holds good for Nyamwezi and the other languages which show Dahl's Law; but for most, if not all, of the languages concerned, a number of additional conditioning consonants are not stops or, in at least one case, voiceless), such languages (as, for example, Luhya, where the product is not a voiced stop and the erstere stimmhaft.'), with certain modifications in minor details to fit various aufeinanderfolgende Silben mit einer stimmlosen Explosiva beginnen, so wird die Gesetz', ZDMG, Band 57, pp. 299-304 ('Wenn in einem Wortstamm zwei general form, as, for example, stated by Meinhof in his article, 'Das Dahlsche consonant for the first of a series of two voiceless aspirates. In a somewhat more considerably in both form and range of application. In Nyamwezi, for which Dahl originally formulated it, it takes the form of the substitution of a voiced Even in those languages in which Dahl's Law does occur regularly it varies

has been lost; in other languages it does apply in such cases; and in others would normally condition Dahl's Law in the first if no consonant intervened, where a consonant formerly found between two others, the second of which consonants followed by suffixes are affected. In some languages it does not apply affected; while in at least one language, Gusii (I do not know that this occurs elsewhere, though it is possible that it does), both prefixes and morpheme-final morpheme; in others, such as Kikuyu, elements prefixed to the morpheme are In some languages, as in Luhya, Dahl's Law does not apply except within a

only consonant affected is k, the conditioning consonants being k, e, t, and o; 'voiceless consonant' would be incorrect in many languages. In Kikuyu the conditioned; to say simply 'voiceless aspirate' or even 'voiceless stop' to state more accurately the range of consonants which may condition or be in the various languages revisions of the general statement of Dahl's Law also the position within word or morpheme of the two consonants, there are necessary In addition to such restrictions on the occurrence of Dahl's Law imposed by

<sup>&#</sup>x27;Throughout this discussion 'voiceless (un)aspirate should be read as 'voiceless (un)aspirated stop'. Except where specifically stated, it will not include, nor will it references to, h.

in Luhya the consonants affected are  $h \sim y \sim 0^1$ , r, x, and some cases of s, while those which condition the shift are r, x, some but not all cases of s and t, and possibly (though no example is known to me which would settle the point)  $h \sim y \sim 0$ ; though these are, perhaps, extreme cases, they are not the only languages in which it is not easy to find a single simple category to which all of the consonants involved belong. Also, in some languages the presence of a nasal before one or the other of the two consonants may have to be taken into consideration as an element affecting the working of Dahl's Law.

is probably a single phenomenon. in the Bantu-speaking area, the probability is surely extremely small. It is, area should purely by coincidence and independently have evolved reasonably similar dissimilatory soundshifts of a type not found, to my knowledge, elsewhere I think, reasonable to say that Dahl's Law, however far from uniform it may be, impossible that a number of fairly closely related languages spoken in a limited This makes coincidence seem much less likely. While it is of course by no means comparatively compact area, and rather small, when seen in the proper perspective. another, and tongues which do not show anything of the sort abound, it is a area languages showing such a phenomenon are often widely separated from one Dahl's Law is found is very restricted indeed; while it is true that within this coincidence or parallel evolution. However, such is not the case-in comparison with the total area covered by Bantu languages the area within whose bounds put the occurrence of somewhat similar phenomena of this sort down to separated, linguistically or geographically, one would be very much inclined to Law is impossible. If the languages which exhibit these phenomena were widely statement of the phenomena in the languages of East Africa classed as Dahl's language to language, it becomes apparent that a simple, unified, and complete means a simple one. When one takes into account as well the variation from Even within a given language the correct statement of Dahl's Law is by no

This being granted, it remains to decide how Dahl's Law in fact came to be found in the languages in which it occurs, and to account for its formal diversity. The former question is apparently easily answered. There are two obvious possibilities: either it spread by borrowing, having at some point evolved in

There is a difference; that a phenomenon similar in many ways to Dahl's Law occurs in ment of the Bantu sound system in Luhya is only coincidence; but parallel evolution, while it similar original state, through identical or similar stages, to an identical or similar result. Sotho and Luhya may be due either to pure coincidence or to parallel evolution; the similar original state, through identical or similar stages, to an identical or similar result. Sotho and Luhya may be due either to pure coincidence or to parallel evolution; the similar stages in German can have only coincidence as a possible explanation.

Though it is by no means usual to speak of the spread of a phonologic phenomenon as

borrowing, I have done so throughout; primarily to distinguish between simple spreading within a language, such as necessarily occurs in the course of any linguistic change, and spreading across significant linguistic boundaries, such as would be necessary here.

some language of the area, or it was evolved in ar

is that there was a gradual spread toward the east, 'law' made earlier; nearer the seacoast one finds are regular and functional and come close to fitting or ones which require a quite different type of stateme its form of Dahl's Law. Near Lake Victoria one find incidentally, in Thagicu in particular), the further we geographical distribution of Dahl's Law: in East which does not show it, than it is to any of the l Kikuyu only after it had become separate from Kar which possess Dahl's Law; therefore it seems clear form. Kikuyu, which has Dahl's Law, is far mor which lack Dahl's Law, while others show Dahl's Law obviously only comparatively recently separated from like that in Thagicŭ, where out of a number of muti apparently, only be due to coincidence or borrow introduction of Dahl's Law after the split bety not only the sequence of events after Dahl's Law in a neighbouring language, but also that precedi what can be reconstructed of the history of a give possibility in favour of the former. For one thing, question, to explain the variation in form, it is languages which show it, and is present in them tod At first sight, it would seem that in view of t

On the other hand, while granting that inheritanc facts, unlikely, further inspection of the data brings seem to make borrowing almost as unlikely a hypothan there in fact is. Why should a language, having than there in fact is. Why should a language, having to a tongue in which all the possible units are affected, stops which could be affected, have a form of Dahl's velar? It is not, of course, denied that in the course is only to be expected. If one found languages with languages with hour one consonant affected, out of a which might have been, beside those with all the po Dahl's Law, without languages showing intermediate stops.

Actually, it is probable that the present state is to some extent with the exception of a few languages it is most likely that for its extension in East Africa.

ent affecting the working of Dahl's Law. not easy to find a single simple category to which all of r of the two consonants may have to be taken into belong. Also, in some languages the presence of a nasal se are, perhaps, extreme cases, they are not the only tion the shift are r, x, some but not all cases of s and t its affected are  $h \sim y \sim 0^{1}$ , r, x, and some cases of s, example is known to me which would settle the point)

y that Dahl's Law, however far from uniform it may be area, the probability is surely extremely small. It is ndshifts of a type not found, to my knowledge, elsewhere coincidence and independently have evolved reasonably er of fairly closely related languages spoken in a limited seem much less likely. While it is of course by no means such a phenomenon are often widely separated from one rea, and rather small, when seen in the proper perspective. very restricted indeed; while it is true that within this ered by Bantu languages the area within whose bounds volution.2 However, such is not the case—in comparison le languages which exhibit these phenomena were widely hich do not show anything of the sort abound, it is a or geographically, one would be very much inclined to nena in the languages of East Africa classed as Dahl's somewhat similar phenomena of this sort down to Then one takes into account as well the variation from language the correct statement of Dahl's Law is by no becomes apparent that a simple, unified, and complete

lue either to pure coincidence or to parallel evolution; the similar to a series of coincidences, implies change from an identical or stem in Luhya is only coincidence; but parallel evolution, while it that a phenomenon similar in many ways to Dahl's Law occurs in nann's Law), or that Grimm's Law in Germanic parallels the treatspread by borrowing, having at some point evolved in it remains to decide how Dahl's Law in fact came to be igh identical or similar stages, to an identical or similar result, \*p, formerly h, which is now usually lost, sometimes replaced by y. n which it occurs, and to account for its formal diversity. The spirantization of the Bantu non-post-nasal voiceless stops in apparently easily answered. There are two obvious

linguistic boundaries, such as would be necessary here. o throughout; primarily to distinguish between simple spreading necessarily occurs in the course of any linguistic change, and ve only coincidence as a possible explanation.

ans usual to speak of the spread of a phonologic phenomenon as

> languages which show it, and is present in them today as the result of inheritance.2 some language of the area, or it was evolved in an ancestor of all or most of the

'law' made earlier; nearer the seacoast one finds vestigial forms, none at all, is that there was a gradual spread toward the east, with a steady diminution of or ones which require a quite different type of statement. A reasonable conclusion are regular and functional and come close to fitting the general statement of the which possess Dahl's Law; therefore it seems clear that it was introduced into its form of Dahl's Law. Near Lake Victoria one finds forms of Dahl's Law which incidentally, in Thagicũ in particular), the further west the language, the stronger which does not show it, than it is to any of the languages outside of Thagicu geographical distribution of Dahl's Law: in East Africa as a whole (and, Kikuyu only after it had become separate from Kamba. Then, too, there is the which lack Dahl's Law, while others show Dahl's Law, but do not share the same obviously only comparatively recently separated from one another, there are some like that in Thagicu, where out of a number of mutually intelligible speech forms, apparently, only be due to coincidence or borrowing. Similarly one has cases not only the sequence of events after Dahl's Law which differs from that found what can be reconstructed of the history of a given language, the case that it is introduction of Dahl's Law after the split between the two, which could, in a neighbouring language, but also that preceding; this would point to the possibility in favour of the former. For one thing, it is often, when one looks at question, to explain the variation in form, it is necessary to reject the latter At first sight, it would seem that in view of the need to answer the second Kikuyu, which has Dahl's Law, is far more closely related to Kamba,

which might have been, beside those with all the possible consonants showing next to others with five, one would not be surprised. But to find, as one does, phenomena of this sort some change is possible—a certain amount of variation stops which could be affected, have a form of Dahl's Law which affects only the a tongue in which all the possible units are affected, and having other voiceless Dahl's Law, without languages showing intermediate stages separating them, with languages with but one consonant affected, out of a larger range of consonants is only to be expected. If one found languages with three consonants affected velar? It is not, of course, denied that in the course of the spread of linguistic than there in fact is. Why should a language, having taken over Dahl's Law from seem to make borrowing almost as unlikely a hypothesis. If Dahl's Law were the very recent introduction that it appears one would expect rather less diversity facts, unlikely, further inspection of the data brings to light a few points which On the other hand, while granting that inheritance seems, in the face of these

for its extension in East Africa. Actually, it is probable that the present state is to some extent the result of a combination, but with the exception of a few languages it is most likely that one or the other is responsible.

the change seeming as recent as it does, raises doubts in one's mind. On the other hand, why would a language borrowing the phenomenon from one where only k is affected expand it to apply to all the voiceless stops? One might assume the dissimilation which affects only k, as in Kikuyu and Gusii, for example, to be a phenomenon distinct from the more general dissimilation; but then how would one explain cases like Mwimbi, where after nasals consonants other than k are affected, though in non-post-nasal position only k is changed?

tonal patterns in Kikuyu whose realizations are unlike those of the Masai original Southern Kikuyu, the majority of which, from their form, are apparently before this tonal shift, which must have preceded their separation, which, to evidence, however, which points to the Kikuyu having had contact with the Masai shift found only in these two dialects of Thagicu, to my knowledge. There is rest of Thagicu had occurred, these being the loss of \*j and the peculiar tonal after two of the changes which set Kikuyu (Northern and Southern) off from the and Southern Kikuyu must have been quite recent (though this still need not shows signs of collapsing under its own weight. The separation between Northern borrowings by Southern Kikuyu from Masai. A certain percentage of these have uphold the present argument, must have preceded the coming of the Masai. imply in historic times); the linguistic evidence shows that it probably occurred suppose that the Masai had not yet arrived. However, at this point the argument after the separation of Northern Kikuyu from one of the languages to the west, One must then, to maintain that Dahl's Law was introduced into Southern Kikuyu eliminate one valid possibility, does not seem to show anything like Dahl's Law). able amount of contact, if not considerable political, linguistic, or geographical allied peoples. Even granting that this sort of change can be borrowed (which There are, as one might expect, a number of words common to Masai and barriers as the Masai (whose language, it should probably be stated here to proximity, would be necessary; linguistic changes are unlikely to jump such I do not consider to be as certain as it might be), I would imagine that a reasonthere is a considerable stretch of territory occupied by the non-Bantu Masai and Dahl's Law affecting k only. It so happens, unfortunately, that between the two Thagicũ group, who must also have received it from the same source, presumably), showing Dahl's Law are those to the west (not counting other members of the then ask, 'Whence?'—and this is not so easy to answer. The closest languages asks, 'When?'. The answer is, presumably, after the point at which Southern and from those of the other members of the Thagicu group which show Dahl's of Dahl's Law which differs from that of its nearest relative, Northern Kikuyu, also point to a reasonable-seeming possible source. Southern Kikuyu has a form particularly Gusii, which conveniently, like Kikuyu, shows the limited form of Kikuyu became distinct from its relatives, including Northern Kikuyu. One must Law (remember that not all do). Assuming that Dahl's Law was borrowed, one Then, too, it is not enough to say that Dahl's Law was borrowed; one must

though the realized tones of many reflect the origin type, however, many have the tonal pattern in Kik of Kikuyu before the tone shift, which correspond Masai: one example is barkfit, 'light-brown cow to the [\_-\_\_] of other dialects, is generally realized as while the loan-words whose realized tones correspond to be recent, those whose structural tonal patterns, which, when other factors, including geographical at consideration, seems quite clearly to indicate that tonact with the western tribes from which Dahl's have been borrowed at the time of the split.

There exists, fortunately, a way out of this difficant within Thagicu, for the diversity in form of Depostulate an improbable borrowing at a very late discussing Dahl's Law, I have been speaking of it as a languages at various points in the past, as I until comments to be. If this were the case, however, the situal individual properties as the result of borrowing: Kan have lost Dahl's Law except by devoicing all voiced differently. Yet borrowing, at least after a certain point in snife however, at least after a certain point in snife however.

In spite, however, of the admitted truth of the change involving a phonetic merger, as Dahl's Law is apparent reversal of such a change. One of these condition, 'once it has been completed'. Though it influenced by people, not peoples; it is just as important thing as a uniform language, just as there is, strictly speakly but only a varying number of individual systems wione another.

As languages are spoken by discrete individuals, it is change to take place, except on an individual level,

If, that is, two or more units become phonetically identical

cent as it does, raises doubts in one's mind. On the other uage borrowing the phenomenon from one where only k apply to all the voiceless stops? One might assume the cts only k, as in Kikuyu and Gusii, for example, to be rom the more general dissimilation; but then how would a fwimbi, where after nasals consonants other than k are post-nasal position only k is changed?

curred, these being the loss of \*j and the peculiar tonal must have been quite recent (though this still need not h points to the Kikuyu having had contact with the Masa se two dialects of Thagicu, to my knowledge. There is g under its own weight. The separation between Northern had not yet arrived. However, at this point the argument ht expect, a number of words common to Masai and ument, must have preceded the coming of the Masai Northern Kikuyu from one of the languages to the west. ain that Dahl's Law was introduced into Southern Kikuyu ibility, does not seem to show anything like Dahl's Law). (whose language, it should probably be stated here to anting that this sort of change can be borrowed (which tretch of territory occupied by the non-Bantu Masai and only. It so happens, unfortunately, that between the two which set Kikuyu (Northern and Southern) off from the ; the linguistic evidence shows that it probably occurred as certain as it might be), I would imagine that a reasonwhose realizations are unlike those of the Masai original which must have preceded their separation, which, to ocessary; linguistic changes are unlikely to jump such h conveniently, like Kikuyu, shows the limited form of and this is not so easy to answer. The closest languages nswer is, presumably, after the point at which Southern ther members of the Thagicu group which show Dahl's Kikuyu from Masai. A certain percentage of these have st also have received it from the same source, presumably). from its relatives, including Northern Kikuyu. One must ffers from that of its nearest relative, Northern Kikuyu, le-seeming possible source. Southern Kikuyu has a form nough to say that Dahl's Law was borrowed; one mus majority of which, from their form, are apparently if not considerable political, linguistic, or geographica those to the west (not counting other members of the t all do). Assuming that Dahl's Law was borrowed, one

though the realized tones of many-reflect the original very clearly. Of the former type, however, many have the tonal pattern in Kikuyu which corresponds to the pattern of realized tones of other dialects, and presumably to the realized pattern of Kikuyu before the tone shift, which corresponds to the tones of the word in Masai: one example is barikfil, 'light-brown cow', which is derived from the Masai barrikfil 'reddish-brown', and whose tonal pattern, while it corresponds to the [\_-\_] of other dialects, is generally realized as [\_\_\_]. While other possible while the loan-words whose realized tones correspond to those in Masai are likely to be recent, those whose structural tonal patterns, but not realized tones, correspond to the Masai predate the tone shift, which implies contact with the Masai, consideration, seems quite clearly to indicate that there probably was no close contact with the western tribes from which Dahl's Law might be supposed to have been borrowed at the time of the split.

There exists, fortunately, a way out of this difficulty, a way to account, at least within Thagicū, for the diversity in form of Dahl's Law without having to postulate an improbable borrowing at a very late date. Until now, like others discussing Dahl's Law, I have been speaking of it as a simple change in certain environments from a voiceless to a voiced consonant which occurred in various languages at various points in the past, as I until comparatively recently assumed it to be. If this were the case, however, the situation in Thagicū would be impossible, except as the result of borrowing: Kamba could not, for example, have lost Dahl's Law except by devoicing all voiced consonants indiscriminately at some stage, which clearly was not the case, for †g and †k are still treated differently. Yet borrowing, at least after a certain point, seems to be ruled out.

In spite, however, of the admitted truth of the assertion that a historical change involving a phonetic merger, as Dahl's Law is, cannot be undone, there are two ways in which one can, in various situations, reconcile this with the apparent reversal of such a change. One of these lies in the very nature of linguistic change, and involves the addition to the principle stated above of the condition, once it has been completed. Though it is very easy to lose sight of influenced by people, not peoples; it is just as important to remember in historical work as it is in synchronic that there is, strictly speaking, on the surface no such but only a varying number of individual systems with some degree of basic similarity, but with a greater or lesser number of superficial differences from one another.

As languages are spoken by discrete individuals, it is impossible for a historical change to take place, except on an individual level, instantaneously or even

1 If, that is, two or more units become phonetically identical in the same environment.

of the language of the parents of the generation whose speech underwent the but by an earlier one, through the influence upon the generation after the change to take place in a given language and then be erased, not by a parallel dialect, by a community of a totally unrelated language. Finally, it is possible for a change as much a case of linguistic extinction and replacement as would be the adoption which in fact underwent the change which would later fail to show it, as this is again would produce an apparent reversal, though it would not be the dialect replaced after a generation or so through the influence of another dialect-this subdivisions, a change might occur in one of these subdivisions, and later be political unity is large enough (in actual size or in area covered) to have linguistic which occurred in both. Then, too, if a group with a reasonably cultural and and while this is taking place some interruption might occur, such as the division historical linguist, would later look like the reversal in one group of a change might prove abortive in the other, thus producing a situation which, to the of the group in question, which would allow one half to make a change which homogeneous group a linguistic change needs time to spread and be adopted, noticeably different from that spoken the day before. Even in a small and uniform, can have found themselves speaking one day a language in some respect reasonably close thereunto-but few, if any, ethnic groups, however small and

While, however, the type of occurrence described above could easily account for the presence and absence of Dahl's Law in Kikuyu and Kamba, respectively, it does not in my view allow one to explain adequately the variations in form of Dahl's Law in the Thagicu dialects in which it does occur. The explanation I think at present to be the most reasonable one, and which I am tentatively proposing here, is based not on the nature of linguistic change in general, but on the nature of a certain subclass of linguistic changes.

As languages change they quite frequently continue to show indications of the nature of the change and their previous states, generally in the form of 'morpho-hinted at. The linguistic investigator can from the present situation deduce certain of the changes which occurred in the language's history, though probably of these changes, where forms occur which show two or more of the shifts in can then be supposed not unreasonably to have been later. This ordering is most changes the language has undergone and their sequence. It is rather closely Like it, it sheds considerable light on the past where direct evidence is lacking; synchronic ordering in a single language is not always reliable, partly because but

few languages can be so well provided with forms as to point to but one possible sequence: generally which, while their position in the order relative to lack evidence as to their position relative to one an outline is certain, the details are blurred. Also, it is of analogy, may cause a rearrangement of the under of analogy, may cause a rearrangement of the under ordering, can be most useful, and, taken in conjuctive evidence, such direct historical information and one to deduce quite a bit about the historical alanguage.

It is not, however, a complete record; not all some, even from comparative data, there may be no one to suppose the existence of an earlier form; other in other cases, again, all the forms which would have been lost; or a later shift may have obliterated the they occurred. There is one type of change, however, is not recorded in the right position.

to, for example, the Swahili mbwa. The change from a bi ntiá 'dog' had originally a b as its initial stem consona extremely unlikely that it is a recent innovation in any new-it is found in an active form in most if not all I the same, being the Class 9 nominal prefix. This are nkú 'sheep' an n, and mpho 'gift' an m; the nasal i Transcribe as such, as n and n are distinguished elsev atiá, has a palatal nasal (which a believer in the ' of nasal to immediately following consonant in Sotl which, in historical fact, it preceded. An example of su the end, and will, in the synchronic ordering, appear to such a rule maintains its position relative not to the cl sequence; having been added at the end, for an inder put in a position in the sequence relative to other ru is an exception; for, while in the course of events of with, nonetheless, the latest being uppermost. A cer collapse and jumbling, to be sure, so that the order of these synchronic orderings, to the top of the pile, so It is easy to think of rules as being added, in the

It is by no means true that no historical change can be recannot (at least usually) in an unbroken sequence of events be unshift not involving an identification of two units may at any time

parents of the generation whose speech underwent the ough the influence upon the generation after the change language and then be erased, not by a parallel dialect, ly unrelated language. Finally, it is possible for a change tic extinction and replacement as would be the adoption on or so through the influence of another dialect-this night occur in one of these subdivisions, and later be ough (in actual size or in area covered) to have linguistic the change which would later fail to show it, as this is apparent reversal, though it would not be the dialect lace some interruption might occur, such as the division nguistic change needs time to spread and be adopted themselves speaking one day a language in some respect to-but few, if any, ethnic groups, however small and Then, too, if a group with a reasonably cultural and later look like the reversal in one group of a change the other, thus producing a situation which, to the which would allow one half to make a change which that spoken the day before. Even in a small and

n subclass of linguistic changes. agicu dialects in which it does occur. The explanation allow one to explain adequately the variations in form nce of Dahl's Law in Kikuyu and Kamba, respectively, ype of occurrence described above could easily account not on the nature of linguistic change in general, but the most reasonable one, and which I am tentatively

single language is not always reliable, partly because but cal evidence it should not be trusted too far. For this able light on the past where direct evidence is lacking; cal evidence in the investigation of biological evolution. as undergone and their sequence. It is rather closely use of the operation of one, fail to show another, which nich occurred in the language's history, though probably t unreasonably to have been later. This ordering is most ic investigator can from the present situation deduce they quite frequently continue to show indications of the as it is the result and to some degree a reflection of the forms occur which show two or more of the shifts in frequently possible to detect to some extent an ordering their previous states, generally in the form of 'morphothough even unconditioned shifts can sometimes be

> can allow one to deduce quite a bit about the history (or rather prehistory) of any other facts, linguistic or otherwise, which may have a bearing on the matter, comparative evidence, such direct historical information as may be available, and ordering, can be most useful, and, taken in conjunction with a sufficiency of statements or rules relating the superficial to the structural form, and their of analogy, may cause a rearrangement of the underlying layers. However, these alter the apparent order of the earlier, as disturbing factors, such as the operation outline is certain, the details are blurred. Also, it is possible for later changes to which, while their position in the order relative to certain other changes is clear, as to point to but one possible sequence : generally there are a number of changes lack evidence as to their position relative to one another, so that, while the main few languages can be so well provided with forms which bear upon the ordering

is not recorded in the right position. they occurred. There is one type of change, however, which, while it is recorded, been lost; or a later shift may have obliterated the traces in the forms in which in other cases, again, all the forms which would have shown the change may have one to suppose the existence of an earlier form; others may have been reversed; some, even from comparative data, there may be no evidence which would lead It is not, however, a complete record; not all changes are recorded. For

to, for example, the Swahili mbwa. The change from a bilabial followed by a labial htia, dog, had originally a b as its initial stem consonant—the word corresponds extremely unlikely that it is a recent innovation in any or all of them. The word new-it is found in an active form in most if not all Bantu languages, and it is the same, being the Class 9 nominal prefix. This assimilation can hardly be nkú 'sheep' an n, and mphó 'gift' an m; the nasal in each case is structurally ntia, has a palatal nasal (which a believer in the 'phoneme' would have to which, in historical fact, it preceded. An example of such a rule is the assimilation transcribe as such, as n and n are distinguished elsewhere), nta, 'louse' an n, of nasal to immediately following consonant in Sotho. The word for 'dog', the end, and will, in the synchronic ordering, appear to be later than many changes sequence; having been added at the end, for an indeterminate period it stays at such a rule maintains its position relative not to the changes recorded, but to the is an exception; for, while in the course of events other shifts, once having been with, nonetheless, the latest being uppermost. A certain type of rule, however, put in a position in the sequence relative to other rules, maintain this position, collapse and jumbling, to be sure, so that the ordering becomes confused, but of these synchronic orderings, to the top of the pile, so to speak, with an occasional It is easy to think of rules as being added, in the history of the development

<sup>&</sup>lt;sup>1</sup> It is by no means true that *no* historical change can be reversed. A merger, it is true, cannot (at least usually) in an unbroken sequence of events be undone; but a simple phonetic shift not involving an identification of two units may at any time be reversed without trace.

glide to a palatal is fairly recent—Pedi, a very closely related language, which must have separated fairly late, has a different development, the word for 'dog' being hoss. But in Sotho in the synchronic ordering the presumably far older nasal-assimilation rule seems to follow that change, since otherwise the form would be \*\*mtjs.

As long as such a rule continues to 'float' on top of the sequence, 'it adapts to fit subsequent changes—one of the units to which it applies may change or be lost, new units to which it could apply may be added, and the rule's exact range of application will change to match. The form of the rule as a statement remains the same: at any point in the history of Sotho the rule referred to above could probably have been stated in the form, 'a nasal immediately preceding another consonant is homorganic with it'. Because, however, of shifts in the inventory of items to which it can apply, due to changes subsequent to its introduction into the language, its apparent position in the internal synchronic order shifts.

Eventually, however, some such rules are fixed—that is, they cease to adapt themselves to new conditions, continue to apply to the same items, and changes occurring thereafter apply not to the input, but rather to the output of the rule. From that time on, they maintain their position relative to previous and subsequent changes, with only such shifting and reshuffling as occurs from time to time to disturb the sequence. Not all, of course, are equally likely to be fixed, the probability depending upon the nature of the rule and the degree to which it may example is extremely unlikely to be fixed—the conditioning is too intimate and the assimilation too 'natural'. Others, however, are far less stable, and are liable to be fixed. The cause of this fixing may be the occurrence of a change involving the identification of the product of the rule with some other unit, a shift which drastically alters the phonetic form of either input or output, the ceasing of the

a term which, though perhaps unnecessarily picturesque, has the elements of appropriate (at least for one with the same view of the nature of linguistic change) connotation (a criterion neglected, I think), simplicity, and lack of confusing associations (a criterion also infinitive), for example, for anything but a verbal noun, in technical contexts), necessary in a unnamed.

though it is easy to confuse them. A tendency may—as, I think, in the case of the nasal assimilation described—manifest itself in the form of such a rule; but it may equally occur at paralleling that in Proto-Germanic, for example. A rule of this sort, on the other hand, is If Dahl's Law were the result of a tendency, its presence would be due to independent development. It is true that certain such rules, of which Dahl's Law is, I think, an example, have a may be responsible. But the explanation I am advancing here is based on the common change, followed by individual fixing changes, rather than on individual, possibly independent, changes.

rule to be active in the 'morphophonemics' of the language Until this happens, though, the rule may at any point be I needless to say, even after it is fixed there is no way of oby internal evidence alone, the time of its introduction—to other changes which it occupies is not that of the introduction rather that of its fixing. The original change may have take or a single day before its fixing.

or a single day before its fixing; without records, there can lit is my opinion that the most probable explanation Thagicii with regard to Dahl's Law is that the dissimilar present in the immediate common ancestor of the group (however, as such a rule, and that its fixing did not occur until separated and diverged significantly from one another. It is shall attempt to show that, granting that this was the cutheir histories after the break-up of the group and before dialect, of Dahl's Law.

needless to say, it will not figure in the discussion in any way the language becomes available, one can but say that it m its linguistic affiliations is, unfortunately, not available to me, traditionally asserted that Sonjo is connected with the group,1 spoken in a speech-island in the middle of the Masai territory Segeju. The other language or dialect commonly linked with likely that nothing recognizable as a form of Thagicu is still by neighbouring tongues, are linguistically obviously Thagicũ from the main body of Thagicū in a number of ways, and clea group. Dammann's 'Sprachproben', while their language is of Tanga, is quite clearly, from the evidence available to m One, Segeju, though spoken in Tanzania on the coast, princi other forms of Bantu, not spoken in the same area, are associand all of which are to varying extents fairly readily mutual spoken in the area mentioned in more or less close contac Muthambi, Mwimbi, Igoji, Imenti, and Tigania), and Thars Embu, Mbere, the cluster of dialects known as 'Meru' the group, Thagicũ is more commonly termed the 'Kikuy Kikuyu (from which, because of its being, at present, the bethe most part, in Kenya, to the east and south of Mount The Thagicu group falls (culturally as well as linguistically Thagicũ is a group of dialects or very closely related la

marked subdivisions. Northern Thagicū includes Tharaka and the Primarily on the basis of the assertion in T. Wakefield, 'Routes of the Coast to the interior of Eastern Africa', Journal of the Royal Geograp 1870, pp. 303–339, that 'the Wa-Sónjo are Wasegéju immigrants'.

airly recent—Pedi, a very closely related language, which nirly late, has a different development, the word for 'dog' otho in the synchronic ordering the presumably far older seems to follow that change, since otherwise the form

ule continues to 'float' on top of the sequence, it adapts ges—one of the units to which it applies may change or be h it could apply may be added, and the rule's exact range nge to match. The form of the rule as a statement remains it in the history of Sotho the rule referred to above could ated in the form, 'a nasal immediately preceding another nic with it'. Because, however, of shifts in the inventory in apply, due to changes subsequent to its introduction into ent position in the internal synchronic order shifts.

it, some such rules are fixed—that is, they cease to adapt ditions, continue to apply to the same items, and changes ply not to the input, but rather to the output of the rule. I maintain their position relative to previous and subsequent ch shifting and reshuffling as occurs from time to time to Not all, of course, are equally likely to be fixed, the upon the nature of the rule and the degree to which it may cy 2 of the language or of languages in general. The Sotho inlikely to be fixed—the conditioning is too intimate and atural. Others, however, are far less stable, and are liable of this fixing may be the occurrence of a change involving the product of the rule with some other unit, a shift which honetic form of either input or output, the ceasing of the

heir behaviour I have at times called such phenomena 'floating rules' naps unnecessarily picturesque, has the elements of appropriate (at the view of the nature of linguistic change) connotation (a criterion also it used to be—few people today would be inclined to use the term or anything but a verbal noun, in technical contexts), necessary in a cept discussed so little, if at all, in the past and, so far as I know,

It such an unfixed or readjusting rule is not the same as a 'tendency see them. A tendency may—as, I think, in the case of the nasul infest itself in the form of such a rule; but it may equally occur at if the language—compare the consonant shift in High German sermanic, for example. A rule of this sort, on the other hand, is language, constant in form, but with its range of applicability varying, alt of a tendency, its presence would be due to independent developing such rules, of which Dahl's Law is, I think, an example, have a crtain way, or else lost, and to this extent independent development explanation I am advancing here is based on the common change, g changes, rather than on individual, possibly independent, changes.

Until this happens, though, the rule may at any point be lost without trace, and, needless to say, even after it is fixed there is no way of dating, even relatively, by internal evidence alone, the time of its introduction—the position relative to other changes which it occupies is not that of the introduction of the rule, but rather that of its fixing. The original change may have taken place a million years or a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records, there can be a single day before its fixing; without records.

It is my opinion that the most probable explanation for the situation in Thagicũ with regard to Dahl's Law is that the dissimilation in question was there) as such a rule, and that its fixing did not occur until after the dialects had separated and diverged significantly from one another. In the following pages I shall attempt to show that, granting that this was the case, the variations of their histories after the break-up of the group and before the fixing, in each dialect, of Dahl's Law.

needless to say, it will not figure in the discussion in any way. traditionally asserted that Sonjo is connected with the group, 1 but evidence as to spoken in a speech-island in the middle of the Masai territory in Tanzania. It is Segeju. The other language or dialect commonly linked with the group is Sonjo, of Tanga, is quite clearly, from the evidence available to me, a member of the and all of which are to varying extents fairly readily mutually intelligible. Two the language becomes available, one can but say that it may be connected; its linguistic affiliations is, unfortunately, not available to me. Until material on likely that nothing recognizable as a form of Thagicu is still spoken among the by neighbouring tongues, are linguistically obviously Thagicu; however, it seems group. Dammann's 'Sprachproben', while their language is markedly divergent other forms of Bantu, not spoken in the same area, are associated with the group. from the main body of Thagicũ in a number of ways, and clearly much influenced One, Segeju, though spoken in Tanzania on the coast, principally in the vicinity spoken in the area mentioned in more or less close contact with one another, Embu, Mbere, the cluster of dialects known as 'Meru' (including Chuka, Muthambi, Mwimbi, Igoji, Imenti, and Tigania), and Tharaka, all of which are the group, Thagicũ is more commonly termed the 'Kikuyu Group'), Kamba, Kikuyu (from which, because of its being, at present, the best-known member of the most part, in Kenya, to the east and south of Mount Kenya. It includes Thagicũ is a group of dialects or very closely related languages spoken, for

The Thagicu group falls (culturally as well as linguistically) into two clearly marked subdivisions. Northern Thagicu includes Tharaka and the various dialects

<sup>&#</sup>x27;Primarily on the basis of the assertion in T. Wakefield, 'Routes of Native Caravans from the Coast to the interior of Eastern Africa', Journal of the Royal Geographical Society, Vol. 40, 1870, pp. 303-339, that 'the Wa-Sónjo are Wasegéju immigrants'.

lumped together under the name of Meru—all those, that is, of the cluster around Mount Kenya from the Chuka–Embu boundary northwards. At present, though the evidence is really insufficient for certainty, this group seems to be divided into an Eastern sub-group, including Tharaka, and a Western, including 'Meru'. Southern Thagicũ includes the remaining dialects, whose exact interrelationships are uncertain. Kikuyu and Embu–Mbere seem in a number of ways to form a distinct sub-group, but the evidence is inconclusive. The early date at which Segeju must have lost contact with the rest of Thagicũ makes it especially difficult to place. In some ways it resembles Kamba more than the other dialects; as an independent branch of Southern Thagicũ (that it is Southern rather than Northern, at least, is fairly certain).

To discuss in full the evidence for the above grouping would be impossible here; it must suffice to say that, while the sub-groupings are somewhat tentative, there can on the basis of the data available be no doubt as to the validity of the split between Northern and Southern; a very large number of facts, lexical, phonologic, and ethnological, support it. In what follows I shall, as stated earlier, discuss one member of each of the probable sub-groups: Tharaka, Mwimbi for Meru ', Southern Kikuyu, Embu, Kamba, and Segeju. Chart 1 shows, in a slightly simplified form, the most important consonant correspondences.

Dahl's Law is one of the more important features in which the dialects differ from one another. There are three points of general agreement: no non-post-nasal consonant but k may be affected; in no dialect are morpheme-final consonants (at least normally) affected; in no dialect is a reflex of \*# affected.\* In other respects the dialects differ, and it should be noted that the points of agreement mentioned above are all negative ones.

In Southern Kikuyu, only non-post-nasal k is affected; the consonants affecting are b, t, e, and k. The rule applies not only within morphemes but also to prefix consonants. Where two or more prefixes having k as their consonant occur before one of the affecting consonants, all are affected, not only the one nearest the conditioning consonant; where, however, a stem begins with a gowing to the operation of Dahl's Law, prefixes are not affected. Consonants in suffixes do not normally affect those in preceding morphemes; it is, however, not unknown for this to happen in fixed forms; one excellent example is

1	d	tug.	Ť.	hid	17	Tay		1	+mh	+6	昆	3,1	The	c	101		‡ <u>Ē</u>	1 =	± ;	†mp	ŧ	
	16	7	: 1	nd	-	П	8 ~ y	e E	7	0	118	k	E	C	100		* :		>	т.	h	Southern Kikuyu
	ng	4	пп			<b>E</b> .	C	mb		0	ng	F	E.	c	nd		nd	0	dm	ma	В	Embu
	Dg.	0	nd	6	9	nz	to	mb	8	F	1	ar'	nz	O1	ы		nð	0	шо		В	Kamba
	ng	0	bu	н		0 1	00	mb	0	Bu	Þ		(?)	cox	+	+	þu	0.	(3)	7	0	Sege

Chart 1: Principal consonant correspondences between

with a monomorphemic stem, and is probably ider speakers, in fact is composite, having the reversive-static connected with the verb gakaara to pull out, uprocumits before the fixing of Dahl's Law.

The situation is also with the distortion of the situation is also with the pull of the situation is also with the situation of the situation is also with the situation of the situation of the situation is also with the situation of the situation of

The situation is almost exactly the same in Embu. Southern Kikuyu githaka. Interestingly enough, this is Northern Kikuyu agrees with Embu rather than South only dialect in which the reflex of \*t is among the comboth Embu and Northern Kikuyu there seems to be, frome, a tendency to adopt the use of g instead of k in found sporadically in the materials I have seen; how influence of Southern Kikuyu upon the speakers (or perherms the most likely explanation.

Segeju does not show Dahl's Law at all. In Kamba, not seem to be present in the vast majority of cases, then

<sup>\*</sup> It seems probable that Tharaka is not, in fact, a unit: I have seen three fairly extensive sets of data purporting to be on Tharaka, and all three differ on various points. As stated earlier, this will be based primarily on the material supplied me by Miss Eastman, supplemented from Lindblom, though the two probably represent different dialects.

<sup>&</sup>quot;A few irregular correspondences seem to be possible relics of a stage when the reflex of a ffected by Dahl's Law was differentiated from that to which Dahl's Law did apply. Compare Tharaka notata (in Lindblom's transcription equals nthata or ntata), Kamba ndith. Kikuyu njátá, all meaning 'star'; but Tharaka nthí, Kamba nthí, Kikuyu thl, 'earth' This is, however, by no means a regular development, and other factors may be involved.

ways it seems more reasonable to treat it for the moment h of Southern Thagicũ (that it is Southern rather than s it resembles Kamba more than the other dialects: ttact with the rest of Thagicu makes it especially difficult and Embu-Mbere seem in a number of ways to form es the remaining dialects, whose exact interrelationships ncluding Tharaka, and a Western, including 'Meru'. fficient for certainty, this group seems to be divided into e name of Meru-all those, that is, of the cluster around the evidence is inconclusive. The early date at which huka-Embu boundary northwards. At present, though

ach of the probable sub-groups: Tharaka,1 Mwimbi for sical, support it. In what follows I shall, as stated earlier, the most important consonant correspondences. and Southern; a very large number of facts, lexical. ay that, while the sub-groupings are somewhat tentative yu, Embu, Kamba, and Segeju. Chart I shows, in a the data available be no doubt as to the validity of the evidence for the above grouping would be impossible

ly certain).

s differ, and it should be noted that the points of agreehay be affected; in no dialect are morpheme-final cone are three points of general agreement: no non-postre all negative ones. ly) affected; in no dialect is a reflex of \*f affected.2 In the more important features in which the dialects differ

of Dahl's Law, prefixes are not affected. Consonants in There two or more prefixes having k as their consonant k. The rule applies not only within morphemes but also to happen in fixed forms; one excellent example is affect those in preceding morphemes; it is, however, affecting consonants, all are affected, not only the one , only non-post-nasal k is affected; the consonants consonant; where, however, a stem begins with a s

two probably represent different dialects. narily on the material supplied me by Miss Eastman, supplemented Tharaka is not, in fact, a unit: I have seen three fairly extensive on Tharaka, and all three differ on various points. As stated

bondences seem to be possible relics of a stage when the reflex of was differentiated from that to which Dahl's Law did apply. Lindblom's transcription equals nthats or ntats), Kamba ndata. 'star'; but Tharaka nthi, Kamba nthi, Kikuyu thi, 'earth'. ns a regular development, and other factors may be involved.

ng ng	۲ ۲	nd nd	7	T) (II	. e ~ y . c	mb mb	0	ng ng	r r	E E	c c	nd nd	-	:0 nd	, 0	ed u	G.	Kikuyu Embu Kamba
ng	0	nd	0	112	ŧa.	mb	0	Bu	Þ.	nz	50	nd	t	nō	0	mb	ъ	Kamba
Bu	0	nd	н	co	60	mb	0	ng	Þr'	(?)	664	*	•	pd	d	(?)	В	Segeju
ng	٧	nd	r	nj.	u.	mb	0	맖	r'	nc	c	nt	+	nd	ō	mp	0	Mwimbi
рg	~	nd	п	P.	A	mb	0	nk	Þq"	nc	0	nt	et.	nö	ŏ	dur	Ø ~ B	Tharaka

Chart 1: Principal consonant correspondences between Thagicū dialects cited.

units before the fixing of Dahl's Law. transitive suffix occurs; these forms must have become fixed and identified as connected with the verb guktura 'to pull out, uproot', where the equivalent speakers, in fact is composite, having the reversive-stative -ak- suffix, and is surely with a monomorphemic stem, and is probably identified as such by native kūgtūka, 'to be dislodged, pulled out'; this, though it resembles a simple verb

seems the most likely explanation. to me, a tendency to adopt the use of g instead of k in prefixes before b-this is only dialect in which the reflex of \*\* is among the conditioning consonants. In influence of Southern Kikuyu upon the speakers (or perhaps only the transcribers) regular, and k before a o in the same morpheme remains unaffected. Recent found sporadically in the materials I have seen; however, it is by no means both Embu and Northern Kikuyu there seems to be, from the evidence available Southern Kikuyu gīthakā. Interestingly enough, this is one of the ways in which not one of the conditioning consonants: compare kithaka 'bush', with the Northern Kikuyu agrees with Embu rather than Southern Kikuyu, which is the The situation is almost exactly the same in Embu. There, however, the & is

not seem to be present in the vast majority of cases, there are a few words (manth, Segeju does not show Dahl's Law at all. In Kamba, though Dahl's Law does

' to die '
' to return '
'to catch '
' to greet '
' place '
'chicken'
'fever'
' hyena '

at some point.

Chart 2: Examples illustrating the range of consonants affected by and affecting Dahl's Law in the Thagicu dialects cited; where possible cognates have been given in all dialects; items in parentheses have been slightly modified for the sake of uniformity.

Segeju

(kugwa)

(kušoka)

(kukwata)

Mwimbi

gůkúa

gůcò:kà

kögwátà

gðkè:thia

gåntå

ngůků

mbiti

ntetema

Tharaka

gůkúa

gůcooká

kůgwátà

gåntå

ngűkű

mbiti

(gükethia)

(ndetema)

Southern

Kikuyu

gükúa

gűcò:ka

kűgwáta

kügèithia

kũndů

ngűkű

Embu

gūkúa

gácloká

kůgwátà

gůkè:thìa

kåndå

ngűkű

mviti

Kamba

kůkw'á

kůsyòká

kükwátà

kůkě:thyà

kåndå

ngűkű

mbiti

ndetema

Position

†k-k:

†k-c:

†k-NK:

tnk-K:

tnt-K:

†mp-K: hiti

Mwimbi and other forms of Northern Thagicū too. affected; the other post-nasal consonants, however, qu among the affecting consonants. In both prefixes through borrowing, analogical formation, or other ty and presumably in Mwimbi too, though again I have no no (though no example is available at present), and nk show Dahl's Law affecting nt. The affecting consonants the consonants affected are k, nk, and mp. Unlike T morpheme (and always in prefixes) fail to show Dahi is the case in Kikuyu and Embu. prefixes are affected if the last stands before one of the such case—Lindblom gives -kußi for 'short', cf. Kij forms of Tharaka in which prefixes are affected, north nasal is not without exception-Lindblom gives mpan morpheme, the voicing of nt and mp when the affect probably, though no examples are available, mp and evidence to allow certainty, Tharaka is not in fact eyelashes', cf. Swahili kope; but even if this is accur Lindblom a reflex of \*p seems to be found as the a Meru influence—and its absence, equally, to that of explanations, the first being possible mishearing or large area of rough country, and it seems likely that others, the second and more likely one being an amo glkongóró, 'chair', with Lindblom's kikongor:o. Meru ', several. The presence of Dahl's Law in presome variation, though other prefixed NK clusters sl In the whole group, it is plain that only k (and nb Tharaka equal to that within 'Meru'-Tharaka is possession shows Dahl's Law affecting k and nk in pr seen show no trace of this. is uncertain. Lindblom's material and some other; It should be noted that there is considerable variation in Also affected, however, are mp, nt, and nk. The sta Southern. In Tharaka, the only non-post-nasal co In Mwimbi, the remaining dialect, typical in this res The consonants conditioning Dahl's Law in Than However, other ma

to show it. These may be indications that at one fat ', cf. Kikuyu magutà, stem †-kūtā, is the most c DAHL'S LAW AND THAG

or one of the other possible explanations for the exis

may be the correct one, as, for example, the possibili

The Northern Thagicũ forms of Dahl's Law

may be the correct one, as, for example, the possibility of interdialectal borrowing or one of the other possible explanations for the existence of a few irregular forms

to show it. These may be indications that at one time Dahl's Law was active,

at some point,

Position	Southern Kikuyu	Embu	Kamba	Segeju	Mwimbi	Tharaka	918
†k-k: †k-c: †k-t: †k-t: †k-NK: †k-NK: †nk-K: †nt-K:	gūkúa gūcò:ka kūgwáta kūgèithia kũnđử ngắkắ	gůkůa gůcioků kůgwátů gůkě:thia kůndů ngůků	kůkw'á kůsyòká kůkwátà kůkė:thyà kůndů ngůků ndetema mbiti	(kugwa) (kušoka) (kukwata)	gắkúa gắcỏ:kả kắgwátả gắkẻ:thia gắntắ ngắkố ntetema mbiti	gůkúa gůcòoků kůgwátů (gükethia) gůntů ngůků (ndetema) mbiti	to die' to return' to catch' to greet' place' chicken' fever'

Chart 2: Examples illustrating the range of consonants affected by and affecting Dahl's Law in the Thagicü dialects cited; where possible cognates have been given in all dialects; items in parentheses have been slightly modified for the sake of uniformity.

evidence to allow certainty, Tharaka is not in fact one dialect, but rather, like others, the second and more likely one being an amount of local variation within large area of rough country, and it seems likely that, though there is not enough explanations, the first being possible mishearing on the part of Lindblom and gikongoro, 'chair', with Lindblom's kikongorio. There are two good possible some variation, though other prefixed NK clusters show no trace of it : compare possession shows Dahl's Law affecting k and nk in prefixed elements, though with seen show no trace of this. However, other material on the dialect in my is uncertain. Lindblom's material and some other specimens of Tharaka I have Southern. In Tharaka, the only non-post-nasal consonant affected is again k. Also affected, however, are mp, nt, and nk. The status of Dahl's Law in prefixes Tharaka equal to that within 'Meru'—Tharaka is spoken over an extremely The Northern Thagicū forms of Dahl's Law are more general than the

nasal is not without exception-Lindblom gives mpsemps for 'maize'. In those morpheme, the voicing of nt and mp when the affecting consonant is also postsuch case—Lindblom gives -kußi for 'short', cf. Kikuyu -kuhl. Even within a is the case in Kikuyu and Embu. prefixes are affected if the last stands before one of the affecting consonants, as forms of Tharaka in which prefixes are affected, normally all of a series of kvprobably, though no examples are available, mp and no. In one example from Lindblom a reflex of \*p seems to be found as the affecting consonant: ngoβε, Meru influence—and its absence, equally, to that of Kamba. eyelashes', cf. Swahili kope; but even if this is accurately recorded it is the only The consonants conditioning Dahl's Law in Tharaka are t, c, k, nt, nk, and

Meru', several. The presence of Dahl's Law in prefixes might easily be due to

affected; the other post-nasal consonants, however, quite frequently even within among the affecting consonants. and presumably in Mwimbi too, though again I have no example, p (when present ne (though no example is available at present), and nk. In other forms of Meru, show Dahl's Law affecting nt. The affecting consonants are t, e, k, mp, nt, probably through borrowing, analogical formation, or other types of innovation) is also the consonants affected are k, nk, and mp. Unlike Tharaka, Mwimbi does not morpheme (and always in prefixes) fail to show Dahl's Law. In Mwimbi, the remaining dialect, typical in this respect of 'Meru' as a whole, In both prefixes and stems k and nk are

1 It should be noted that there is considerable variation in NK clusters before others in In the whole group, it is plain that only k (and nk in Northern Thagicũ) is

Mwimbi and other forms of Northern Thagicū too.

actively affected by Dahl's Law. Though Dahl's Law is found affecting regularly other consonants in the Northern dialects, there are numerous exceptions (even factors, probably. While the shift affecting k is so active that not only loan-words (Kikuyu ga:ki, 'khaki', to give but one example) but even foreign words spoken as such are affected (I have heard occasional forms showing Dahl's Law in both one finds cases such as the Mwimbi mpakfiri, 'bowl', a loanword from the one would expect not only from Dahl's Law but also from the shape of that source.

I shall now present what seem to me to be the factors in the histories of the various dialects responsible for the above differences in form of Dahl's Law, in the true sense of the words, but rather what seem to be most likely to have conclusions, based on consideration (inevitably not wholly objective) of all the cannot be denied that, for all that can be known to the contrary, if the facts were been deduced from the synchronic orderings of the various dialects, comparison thing else which seemed relevant; that the group is a fairly large and close-knil emphasized that nothing can be said with complete certainty about linguistic prehistory.

other languages; the structural 1d had almost certainly long since come to be well before the break-up of Thagicū become differentiated in point of articulation realized as an r-equivalent in non-post-nasal position; \*f and \*j had probably realized even in intervocalic position after Thagicũ had become independent of two-tone system. Of the consonants, it seems likely that \*b continued to be only structurally, as is the case with Kikuyu and Kamba, but superficially a system must have been very much like that which Mwimbi shows today: not seven-vowel system, which has been preserved by all the dialects. certain of the present languages further to the west. It certainly possessed a ancestor of the Thagicu dialects was, in all probability, externally much like the break-up into the various dialects, though the exact point relative to Thagicu's becoming distinct from other languages cannot, at the moment, be stated, the in regard to the matters to be discussed. At some point in the past, well before cerned, to give some idea of what seems the probable original state of Thagicu having described above the present state of affairs as far as Dahl's Law is con-As a history must have both an ending and a beginning, it is appropriate. The tonal

Thagicũ

T-2: tb > \beta, tj > \beta // # T-1: th > c//-

T-3: \(\beta > \text{0} \) / \(\nabla - \)

T-4: Prefix-initial vowels were lost

Southern Thagicũ

ST-6: B, 2 > 0 // #\_

ST-5: NKh > NK

Kikuyu-Embu

Southern Kikuyu \$ > 0 // V KE-7: †p > 0 Embu Kn-7: Ka-8: 1 > 0 †p > φ // Ψ Kamba # > 0 > 0 > d 10 > \$ // V Segeju

Em-9: Fixing of Ka-10: †r > 0 Em-8: 11 > 0 Dahl's Law Ka-9: TE > 0 // V

Se-9:

 $\uparrow g > 0$  //  $^{V}_{\mu}$ 

Fixing of Dahl's

Ka-11: NK > NG (Fixing

of Dahl's Law) Se-12: fut > †t

Em-10: ž > e

3k-11: NF > F 3k-10: # > 0

> Sc-11: ž > s Se-10: †uj > ž

Se-13: NK > NG (Fixing of Dahl's Law)

Se-14: c > §

Se-15: k > g // \_\_

hart 3: Relevant changes. It should be noted that after a split two changes with the same number need not be simultaneous. Intermediate steps not shown.

Realizations of non-final symbols not certain.

Northern Thagicũ

NT-6: 11 > 0 NT-5: tp > \| // # -

> vowel-initial, as is also prot the other class of prefixless

Starting from this point

found with vowel-initial st probably took the form \*i usual, of Class 5 (where be the nominal prefixes were On a slightly different leve change without merger of the a nasal, was certainly pre or, in this case, as elsewh tion through loss of the st

came first it is impossible ceased to be a unit is certain

this last left room for the the voiceless being a denta

presumably introduced aft palatal not shared to my

Law, otherwise known as I

necessary to assume that D

Tharaka

Mwimbi

Mw-8: \$ > 0 Mw-7: Fixing of Dahl's

Th-7: Fixing of Dahl's Luw

as described.

1 It seems probable that then

whatever the original positions, dental more likely than the pa where the voiceless member, at The original point of artic personally, in part, no doubt, be

Mw-9: to > ti //\_ Th-8: φ>β,0

nothing to do with this; they a The alternation in Class 5, a fea comparing Kikuyu igôti, 'neck' the western branch of Northern attempting to produce evidence r

Although none of the pres differentiation between nominal a retain this feature, its former p Thagicu (see the discussion of cha

to be the case, the circularity unlikely, though, that it applied As I am merely attempting

earlier, it probably applied ever other than phonologic which exi

were presumably acquired early), is not the same in all dialects: the Class 14. Which they took when of which seem to be loanwords at least in the singular, do not be prefixed to the (originally disyllab A characteristic of Thagicũ

Facing p. 117

Sk-11: NF > F Sk-10: 11 > 0 Southern Kikuyu Fixing of Dahl's ž > 0 // V WET KE-7: †p > ¢ Kikuyu-Embu Em-9: Fixing of Em-8: 11 > 0 Em-10: 2 > c Embu Dahl's Law ST-5: W ST-6: Solcū Th-8: φ > β, θ Th-7: Fixing of Tharaka Dahl's Law

Chart 3: Relevant changes. It should be not; steps not shown

Facing p. 147

the other class of prefixless nouns.5 vowel-initial, as is also probable for the following), and the 'Classes' 1a, 2a, and usual, of Class 5 (where before stems with a realized initial consonant the prefix found with vowel-initial stems), Classes 9 and 10 (though these were probably probably took the form \*ii-, or possibly \*rii-, instead of the \*eri- presumably change without merger of the first of a series of two voiceless stops,2 was present.3 a nasal, was certainly present. For purposes of the present discussion, it is the nominal prefixes were of the common VCV- type, except in the cases, as is On a slightly different level, it is probable (and relevant to the discussion) that necessary to assume that Dahl's Law, in the form of a rule involving the phonetic or, in this case, as elsewhere, of an NG cluster where the next consonant was tion through loss of the stop element of the first of a series of two NG clusters, palatal not shared to my knowledge with other forms of Bantu, and therefore ceased to be a unit is certain—the very name 'Thagicũ' contains it) of a voiceless came first it is impossible to say, but that it was introduced before the group this last left room for the introduction, by phonetic shift and borrowing (which Law, otherwise known as Meinhof's Rule, a change which involves the dissimilapresumably introduced after the language's becoming independent. The Ganda the voiceless being a dental stop or affricate, probably, and the voiced palatal 1\_

Starting from this point the changes shown in Chart 3 seem to have occurred

whatever the original positions, at this point in the history of Thagica the two were probably dental more likely than the palatal articulation more commonly suggested; at any rate, where the voiceless member, at least, is very commonly dental in its realization, I consider a personally, in part, no doubt, because of my early exposure to the languages of the north-east 1 The original point of articulation of this voiced-voiceless pair is, of course, uncertain-

unlikely, though, that it applied outside the phonetic (as opposed to structural) word. earlier, it probably applied even when the second consonant was in a suffix. It does seem other than phonologic which existed at this time; as in the Kikuyu form ktigtitka, referred to . It seems probable that there was no restriction on the position of the two within the word

to be the case, the circularity arising from basing my arguments on that for which I am As I am merely attempting to present a reasonable possibility, not to prove what I think

attempting to produce evidence must be allowed.

nothing to do with this; they are quite obviously simply the ordinary pronominal concord prefixed to the (originally disyllabic) nominal concord. The alternation in Class 5, a feature extremely common in Bantu languages, may be seen by comparing Kikuyu igòtl, 'neck', with rilthò, 'eye'. The disyllabic prefixes used in at least the western branch of Northern Thagicii with adjectives under certain circumstances have Thagicu (see the discussion of change ST-6, below), but also found in vestigial form in Southern. differentiation between nominal and other concords in certain classes, most apparent in Northern retain this feature, its former presence is fairly certain, as is demonstrated in part by the ' Although none of the present dialects (unless Sonjo is indeed a member of the group)

of which seem to be joanwords (though many are common to the group as a whole and so were presumably acquired early). The class to which these are assigned for purposes of concord Class 14. Which they took when first introduced it is, of course, impossible to determine is not the same in all dialects: the Northern group uses the concord of Class 9, the Southern of at least in the singular, do not behave like those of Ia (they also differ semantically), and most A characteristic of Thagicu is the possession of a number of nouns which, while prefixless,

in the tentative order given (it should be borne in mind that this is necessarily an incomplete account, only those changes which seem most relevant being included). Where there is no clear evidence as to which of two shifts preceded the other, I have chosen the order which to me seemed more reasonable; if the choice is wrong in such cases, it does not affect the present discussion, though a complete investigation of the history of the group might make another order seem more likely. The following points should be noted concerning the individual changes:

- T-1 : Though one is inclined to hypothesize a voiced intermediate stage (which, devoicing took place, but what the qualitative difference may have been change from the reflex of earlier \*j until (still before the break-up) the can only be conjectured. Presumably early Thagicu must have distinguished the product of this lost in Mwimbi, presumably before the voicing of e in such positions). where the i, still found in Kamba, Chuka, and some other dialects, was Kikuyu güciara, and, to illustrate the working of the shift in question, Gusii okobiara; but Mwimbi gücooka, Kikuyu gücooka, Kamba küsyoka, vowel, it is realized as †1 (compare Mwimbi ktijfart, 'to bear', with the tioned and probably fairly recent: when e precedes i followed by another a voiced non-post-nasal reflex; this, however, is phonologically condiis usually clearly differentiated from \*j. Mwimbi is the only dialect showing in most orthographies as e. In Kikuyu, Segeju, and Northern Thagicũ it varying (often in the same speaker) between & and &-it is written here and is not shown here), the result is realized in most dialects as voiceless, like other intermediate stages where the intermediate result is not relevant,
- T-2: The position in the ordering of this shift is logically determined by the two on either side of it; actually, of course, linguistic change being what it is, there is nothing to prevent all three from having gone on at the same time.
- T-4: This, again, may well have been simultaneous with the last one, but cannot have occurred before it, as in that case the nominal prefix of Class 2, for example, would have been \*\*ba-, not the a- it is in all dialects.
- T-1-4: None of these would have affected Dahl's Law, except for the second. which would have increased the number of words containing voiceless consonants found in the language and added a new unit to the range of consonants involved. All of these seem to have occurred before the split between Northern and Southern Thagicũ, and probably after the point at which Thagicũ became a distinct entity separate from other languages of

the area. After this point, it seems necessar some of the apparently later shifts may veoccur before the dialects actually separated

- NT-5, NT-6, Se-7, Se-8, Ka-7, Ka-8, KE-7 involved, namely the spirantization of \*p are in detail and in apparent dates, in all the di to suspect that they actually belong to the likely enough that the change may have be facts that, in Southern Kikuyu, the fixing preceded the completion of the change of the shift involving the labial is not the same in a must have been completed only after the valid inheritance and carrying to completion more pair of tendencies common to most of the labial inheritance.
- ST-5: Whether this is in fact an accurate a uncertain, though I think it likely. It is ce led to the eventual voicing of consonants Southern Thagicū as a whole; it is equally is of a later date, as the differential treatmen in various dialects (as seen in Chart 1) shothough, from the fact that in Southern The voicing due to Dahl's Law before an old M of the stop of the NK cluster with the series Dahl's Law (whatever their phonetic realiza stage.
- ST-6: Though the voicing of post-nasal stops remost striking differences between Northern a is in fact the main phonologic distinguishis voicing (it is clearly another case of a readjust than the break-up of Southern Thagicu. It is for the fact that, where Mwimbi has antife baanta, 'all the people', Southern Kikuyu, for the nominal prefix, where the consonant was both dialects, but the pronominal, where it was and non-post-nasal, lost it only in the Southern

object prefixes. Originally, as in many languages of the area that respectively. Now, however, Northern Thagicū has bū- an The presence of the m in the 3rd plural of the Southern dialect

t, only those changes which seem most relevant being e is no clear evidence as to which of two shifts preceded in the order which to me seemed more reasonable; if the cases, it does not affect the present discussion, though on of the history of the group might make another order following points should be noted concerning the individual

bi, presumably before the voicing of a in such positions). ne reflex of earlier \*j until (still before the break-up) the rly Thagicũ must have distinguished the product of this n the same speaker) between & and &-it is written here and tere), the result is realized in most dialects as voiceless Il found in Kamba, Chuka, and some other dialects, was lized as † (compare Mwimbi kůjtara, 'to bear', with the pably fairly recent: when a precedes i followed by another ost-nasal reflex; this, however, is phonologically condiaphies as e. In Kikuyu, Segeju, and Northern Thagicũ it nediate stages where the intermediate result is not relevant, differentiated from \*j. Mwimbi is the only dialect showing s inclined to hypothesize a voiced intermediate stage (which, place, but what the qualitative difference may have been and, to illustrate the working of the shift in question, but Mwimbi gůcocká, Kikuyu gůcocka, Kamba kůsyčká

n in the ordering of this shift is logically determined by the side of it; actually, of course, linguistic change being what nothing to prevent all three from having gone on at the

may well have been simultaneous with the last one, but occurred before it, as in that case the nominal prefix of ample, would have been \*\*ba-, not the a- it is in all dialects.

hese would have affected Dahl's Law, except for the second, have increased the number of words containing voiceless und in the language and added a new unit to the range of volved. All of these seem to have occurred before the split tern and Southern Thagicũ, and probably after the point at became a distinct entity separate from other languages of

the area. After this point, it seems necessary to separate the groups, though some of the apparently later shifts may very well at least have begun to occur before the dialects actually separated from one another.

NT-5, NT-6, Se-7, Se-8, Ka-7, Ka-8, KE-7, Em-8, Sk-10: The changes involved, namely the spirantization of \*p and \*k, are found, with variations in detail and in apparent dates, in all the dialects, which would incline one to suspect that they actually belong to the stage before the split. It seems likely enough that the change may have begun then; but in view of the facts that, in Southern Kikuyu, the fixing of Dahl's Law seems to have preceded the completion of the change of the \*k, and that the form of the shift involving the labial is not the same in all dialects, it appears that they must have been completed only after the various dialects became distinct. I am inclined to consider this an example of parallel evolution, of the inheritance and carrying to completion more or less independently of a pair of tendencies common to most of the East African Bantu languages.

ST-5: Whether this is in fact an accurate representation of the facts is uncertain, though I think it likely. It is certain that the tendency which led to the eventual voicing of consonants after nasals is common to Southern Thagicũ as a whole; it is equally certain that the actual voicing is of a later date, as the differential treatment of certain of the NK clusters in various dialects (as seen in Chart 1) shows. I consider it probable, though, from the fact that in Southern Thagicũ there is no sign of the voicing due to Dahl's Law before an old NK cluster, that such a merger of the stop of the NK cluster with the series of voiceless stops affected by Dahl's Law (whatever their phonetic realization) did occur at about this stage.

ST-6: Though the voicing of post-nasal stops referred to above is one of the most striking differences between Northern and Southern, it is this which is in fact the main phonologic distinguishing factor, the fixing of the voicing (it is clearly another case of a readjusting, unfixed, rule) being later than the break-up of Southern Thagicū. It is this change which accounts for the fact that, where Mwimbi has anti bonds for structural †abanti báônts, 'all the people', Southern Kikuyu, for example, has andi 6:ths; the nominal prefix, where the consonant was intervocalic, lost the \*b in both dialects, but the pronominal, where it was originally non-post-vocalic and non-post-nasal, lost it only in the Southern group.

¹ This has resulted in an interesting situation in the 2nd and 3rd person plural subject and object prefixes. Originally, as in many languages of the area, these were probably \*mū- and \*ba- respectively. Now, however, Northern Thagicū has bū- and ba- and Southern mū- and ma-. The presence of the m in the 3rd plural of the Southern dialects may well be an extension from

Th-7: Fixing of Dahl's Law, Tharaka: This took the form of the identification of the stops resulting from the dissimilation in its original form: with the homorganic voiced stops in the cases of k, mp, nt, and nk, remaining voiceless and, whether immediately or long after, being reidentified phonetically with the unaffected equivalents in the cases of t, c, and possibly nc. The conditioning consonants were at the time the unaffected reflexes of tt, te, tmp, tnt, tne, and tnk.

Th-8: The positions in which the reflex of \*p was lost and those in which it was retained as β I am, at the moment, unable to state; probably there has been a certain amount of influence from analogy and other dialects. Retention is somewhat more frequent where it occurs as the initial consonant of a verb, somewhat less before front vowels. It should be stated that there is no visible correlation between its retention and its occurrence in a position in which it would originally have been affected by Dahl's Law.

Mw-7: Fixing of Dahl's Law, Mwimbi: Here again the affected series was reidentified, k, mp, and nk with the voiced, t, e, nt, and ne with the unaffected voiceless, the conditioning consonants being at this time the unaffected reflexes of tt, te, tk, tmp, tnt, tne, and tnk. It is not clear why nt is here treated in a way different from that in which it is treated in Tharaka. The two items which might have been expected to be affected, since voiced equivalents with which they might readily have been identified existed, nt and ne, have this in common: the non-post-nasal equivalents were both stops and unaffected by Dahl's Law; whether this has, or even might have, any bearing on their treatment I cannot say.

Mw-8: There may well have been an intermediate stage as an h or something of the sort; this change is probably fairly recent. It has left a hiatus affecting vowel coalescence and (optionally) the functioning of Dahl's Law—the word for 'drum', usually glémpé, I have found at least once as kiémpé, the stem being +-pémpé.

the ma- of Class 6, which is in turn an extension from the nominal prefix. The prefixes in question are in Imenti Meru (Mwimbi differs here) a- and ba- for Class 2, ma- and ja- for Class 6. After this shift the verbal forms merged as a- in the Southern dialects, so that, when the m spread by analogy in Class 6, it was not unreasonable that it should also be extended to Class 2. In some forms of Southern this is carried even further, so that in Kamba not only the verbal prefix, but also the normal adjectival is ma- in both classes. Interestingly in Segeju, though the 3rd plural subject prefix is ma-, the corresponding object prefix is -a-, so that it seems probable that the change in these prefixes was incomplete at the time of its separation from the body of the group.

Owing to the scarcity of forms containing ne in a position in which it could be affected and the absence from my material of such forms which could also reasonably be said to be inherited words (at least not introduced after this point) and unlikely to have been influenced by analogy, it is impossible to state the position of ne with certainty.

> Mw-9: There is nothing to date this relative to known to me, but it is clearly late, being pe discussion of T-1.

Se-7: It is interesting to note here the word myes is conceivable. intervocalic. Alternatively, analogy from the sir monosyllabic) the nasal was syllabic and the stem, in spite of the way it is written, is, at le mbuzi 'goat' are of two syllables each. It is I Thagicu but before this point), so that in the the sort may have developed in Segeju (after nasal, while others of the same class do not: t a noun of Class 9 with monosyllabic stem will 1 receive different treatment from that given other irregularity. In many Bantu languages nouns believe) there can be found a reasonable exp exception. If the latter is the actual state of a Kikuyu and Embu, with \*p shifting in any env equally doubtful, of tmp in Dammann's materi treatment (there are, unfortunately, only on to the Kikuyu hia, Kamba mbya, and the stem

Se-8: It is true that the ultimate product is a voiced of in view of the facts in the other dialects, it seassume that it passed through these stages that voicing.

Se-13: Fixing of Dahl's Law, Segeju: At this point the post-nasal voiceless stops which remained voiced equivalents. No voiced non-post-nasal state the voiceless stops affected by Dahl's Law could be noted that, for all the evidence to the contrary first, unfixed stage of Dahl's Law could have been however, at which the last remnants of a voiced lost, Dahl's Law could not have been fixed in a p

Se-14: The proper placement of this shift relative to is uncertain, largely because indications of the treat If this is treated exactly as is 'nj a revision of this

Dahl's Law, Tharaka: This took the form of the identification resulting from the dissimilation in its original form: with the oiced stops in the cases of k, mp, nt, and nk, remaining voice-ther immediately or long after, being reidentified phonetically fected equivalents in the cases of t, e, and possibly ne. The consonants were at the time the unaffected reflexes of tt, te, the, and tak.

tions in which the reflex of \*p was lost and those in which d as \$I am, at the moment, unable to state; probably there ertain amount of influence from analogy and other dialects, somewhat more frequent where it occurs as the initial concerb, somewhat less before front vowels. It should be stated to visible correlation between its retention and its occurrence in which it would originally have been affected by Dahl's Law.

of Dahl's Law, Mwimbi: Here again the affected series was, mp, and nk with the voiced, t, o, nt, and ne with the unaffected conditioning consonants being at this time the unaffected, te, tk, tmp, tnt, tne, and tnk. It is not clear why nt is here ay different from that in which it is treated in Tharaka. The nich might have been expected to be affected, since voiced with which they might readily have been identified existed, we this in common: the non-post-nasal equivalents were both affected by Dahl's Law; whether this has, or even might arring on their treatment I cannot say.

this change is probably fairly recent. It has left a hiatus vel coalescence and (optionally) the functioning of Dahl's ord for 'drum', usually glémpé, I have found at least once stem being †-pémpé.

nich is in turn an extension from the nominal prefix. The prefixes in Meru (Mwimbi differs here) a- and ba- for Class 2, ma- and ja- for it the verbal forms merged as a- in the Southern dialects, so that, when gy in Class 6, it was not unreasonable that it should also be extended rms of Southern this is carried even further, so that in Kamba not only so the normal adjectival is ma- in both classes. Interestingly in Segeju, subject prefix is ma-, the corresponding object prefix is -a-, so that it e change in these prefixes was incomplete at the time of its separation roup.

city of forms containing ne in a position in which it could be affected my material of such forms which could also reasonably be said to be at not introduced after this point) and unlikely to have been influenced sible to state the position of ne with certainty.

Mw-9: There is nothing to date this relative to the fixing of Dahl's Law known to me, but it is clearly late, being peculiar to Mwimbi—see the discussion of T-1.

Se-7: It is interesting to note here the word mvea 'horns'. This corresponds stem, in spite of the way it is written, is, at least in the other dialects, mbuzi 'goat' are of two syllables each. It is possible that something of a noun of Class 9 with monosyllabic stem will have as its prefix a syllabic receive different treatment from that given others. In Swahili, for example, intervocalic. Alternatively, analogy from the singular (presumably \*rūvīa) monosyllabic) the nasal was syllabic and the reflex of \*p treated as if Thagicu but before this point), so that in the word for 'horns' (whose the sort may have developed in Segeju (after its split from the rest of nasal, while others of the same class do not : the nouns mbwa 'dog' and irregularity. In many Bantu languages nouns with monosyllabic stems believe) there can be found a reasonable explanation for the apparent exception. If the latter is the actual state of affairs (as I am inclined to Kikuyu and Embu, with \*p shifting in any environment, or else this is an equally doubtful, of tmp in Dammann's material) must be the same as in treatment (there are, unfortunately, only one or two other examples, to the Kikuyu hia, Kamba mbya, and the stem is +-pia. Either the regular

Se-8: It is true that the ultimate product is a voiced dental stop, but, especially in view of the facts in the other dialects, it seems more reasonable to assume that it passed through these stages than to postulate a simple voicing.

Sc-13: Fixing of Duhl's Law, Segeju: At this point, necessarily after Se-12, the post-nasal voiceless stops which remained were identified with the voiced equivalents. No voiced non-post-nasal stops remained with which the voiceless stops affected by Dahl's Law could have merged. It should be noted that, for all the evidence to the contrary, the dissimilation of the first, unfixed stage of Dahl's Law could have been lost much earlier, even immediately after the dialect became independent; after this point, however, at which the last remnants of a voiced-voiceless contrast were lost, Dahl's Law could not have been fixed in a positive form.

Se-14: The proper placement of this shift relative to Se-10, Se-11, and Se-13 is uncertain, largely because indications of the treatment of the are lacking. If this is treated exactly as is the a revision of this will be necessary, as in

Only if the is differentiated from both to and this can this ordering stand, then it will be necessary to assume that, before Se-13, the nasal was lost, included in Se-13. If the is treated differently, but the same way as to, that case Se-10 would presumably have to follow the post-nasal voicing

Se-15: A few cases of what might otherwise appear to be voicing caused by conditioned not by the consonant but by the vowel. Dahl's Law would result from this shift, which is, however, clearly

Ka-11: Fixing of Dahl's Law, Kamba: As in Segeju, strictly speaking Dahl's expect to be the reflex of a voiced rather than a voiceless consonant (as in Runyankore, where one finds amajuta and orugone instead of the anticipated ones whose cognates even in certain languages which do not have Dahl's words (though this is not true of some of the other anomalous items) are be lacking in this word in 'Meru'). It should be noted that both of these 'eyelashes' in Tharaka may show that the identification had begun before \*\*amafuta and \*\*orukóhe). Law as a regular phenomenon are occasionally found with what one would Western branches before the change in question, as the voicing appears to force one to place the separation of Northern Thagicu into its Eastern and or during the shift of to \$\phi\$ (which might, under certain circumstances, interrupted, well before completion, by that shift, just as the form ugofic they existed, had begun before the spirantization and loss of \*g, but was as well as the post-nasal voiceless stops, with the voiced equivalents, where would appear that a merger of the voiceless stops affected by Dahl's Law, tion and the loss of \*g intervocalically may have been going on at the same as màutà, 'fat', seem to indicate that the loss of the Dahl's Law dissimilahere than there are in Segeju. The few forms lacking an expected k, such nasal voiceless stops became voiced. There are, however, more problems Law was not fixed, and this merely represents the point at which the post-Granting that interference from other dialects is not to blame, it

KE-7: In both Kikuyu and Embu-Mbere, unlike the rest of Thagicu (unless reconsideration of the closer relationship between Kikuyu and Embu-Mbere, but in view of the fact that, while the Northern Kikuyu dialect in the mb of Kamba is also due to the latter process, which would force a not simply mp > mb, but rather mp > m $\phi$  > m $\beta$  > mb. It is possible that the case, but it seems probable that this is fairly late, the sequence running the forms with tmp have the mb which would be expected were this not that in some dialects, as in the form of Northern Kikuyu I have heard. reflex of \*p is treated the same whether or not a nasal precedes. It is true the realization of tmp as mv in Segeju referred to above is regular), the

> here is the more accurate. Kamba has no, there is some reason to believe the question has made the analogous series of shift

Em-9: Fixing of Dahl's Law, Embu: Here the voic after this stage, were the unaffected non-post-nasal ditioning the change in k, the only consonant still point of articulation remained, continuing voiceless. the unaffected voiceless stops, t and c, for which no existed, as were the voiceless post-nasals, and other Dahl's Law were identified with the voiced series wi

Em-10: This, like the identical shift in Kamba, may somewhat earlier; it would not significantly alter an Mbere and Kikuyu. discussion. It must, however, be later than the div

Sk-8: This change is shared with Northern Kikuyu, referred to elsewhere. After this point, however, the

Sk-9: Fixing of Dahl's Law, Southern Kikuyu: Again responsible in the other cases) were the voiceless stops affected by Dahl's Law and the voiceless post-nasal sonants conditioning the change in k (the nasal, not ne, and nk, and otherwise with the unaffected voicely with the voiced equivalents where such existed, as wa Law that existed at the time, specifically the reflexes

Sk-10: Because of the fact that in Southern Kikuyu the after the split between Northern and Southern Kiku at least an affricate; alternatively, it may be that it had fixing of Dahl's Law, this became temporarily, within say. I am inclined to suspect that † had before the grou until after the fixing of Dahl's Law. Why exactly this took this form, to assume that in that dialect \*t did no sonants conditioning Dahl's Law, it is necessary, grant

As has Mwimbi. Note that in neither, as far as I have been able to distinguished from the usual nd in point of articulation.

There is no certain example of nt occurring as conditioning consonar there were, it might make revision of the statement for Southern Kiku

differentiated from both to and this can this ordering stand I would presumably have to follow the post-nasal voicing necessary to assume that, before Se-13, the nasal was lost, If the is treated differently, but the same way as to,

of by the consonant but by the vowel. would result from this shift, which is, ses of what might otherwise appear to be voicing caused by however, clearly

where one finds amajuta and orugone instead of the anticipated he reflex of a voiced rather than a voiceless consonant (as in ognates even in certain languages which do not have Dahl's this word in 'Meru'). It should be noted that both of these ches before the change in question, as the voicing appears to lar phenomenon are occasionally found with what one would h this is not true of some of the other anomalous items) are lace the separation of Northern Thagicü into its Eastern and post-nasal voiceless stops, with the voiced equivalents, where ell before completion, by that shift, just as the form ngoβs nad begun before the spirantization and loss of \*g, but was ng that interference from other dialects is not to blame, it oss of \*g intervocalically may have been going on at the same e are in Segeju. The few forms lacking an expected k, such shift of to \$ (which might, under certain circumstances, that a merger of the voiceless stops affected by Dahl's Law ixed, and this merely represents the point at which the post-Tharaka may show that the identification had begun before ', seem to indicate that the loss of the Dahl's Law dissimilastops became voiced. There are, however, more problems Dahl's Law, Kamba: As in Segeju, strictly speaking Dahl's

n view of the fact that, while the Northern Kikuyu dialect in on of the closer relationship between Kikuyu and Embuamba is also due to the latter process, which would force a p > mb, but rather  $mp > m\phi > m\beta > mb$ . It is possible that it seems probable that this is fairly late, the sequence running th †mp have the mb which would be expected were this not n of tmp as my in Segeju referred to above is regular), the Kikuyu and Embu-Mbere, unlike the rest of Thagicu (unless dialects, as in the form of Northern Kikuyu I have heard, treated the same whether or not a nasal precedes. It is true

> question has made the analogous series of shifts nt > n0 > n0 > nd,1 here is the more accurate. Kamba has no, there is some reason to believe that the statement given

Em-9: Fixing of Dahl's Law, Embu: Here the voiceless stops affected by after this stage, were the unaffected non-post-nasal reflexes of †k, †e, and existed, as were the voiceless post-nasals, and otherwise reidentified with Dahl's Law were identified with the voiced series where voiced equivalents ft at the time. ditioning the change in k, the only consonant still to show Dahl's Law point of articulation remained, continuing voiceless. The consonants conthe unaffected voiceless stops, t and e, for which no voiced stop of similar

Em-10: This, like the identical shift in Kamba, may in fact have occurred discussion. It must, however, be later than the division between Embusomewhat earlier; it would not significantly alter anything relevant to this Mbere and Kikuyu.

Sk-8: This change is shared with Northern Kikuyu, as is the tonal shift referred to elsewhere. After this point, however, the two dialects cease

Sk-9: Fixing of Dahl's Law, Southern Kikuyu: Again the voiceless stops affected by Dahl's Law and the voiceless post-nasal stops were identified responsible in the other cases) were the voiceless stops unaffected by Dahl's sonants conditioning the change in k (the nasal, not Dahl's Law, being ne, and nk, and otherwise with the unaffected voiceless stops. The conwith the voiced equivalents where such existed, as was the case for k, nt, Law that existed at the time, specifically the reflexes of 11, 7t, 7e, and 1k.2

Sk-10: Because of the fact that in Southern Kikuyu the 8 is one of the conat least an affricate; alternatively, it may be that it had become 8 and that, fixing of Dahl's Law, this became temporarily, within Southern Kikuyu after the split between Northern and Southern Kikuyu, but before the say. I am inclined to suspect that † had before the group broke up become until after the fixing of Dahl's Law. Why exactly this should be I cannot took this form, to assume that in that dialect \*1 did not cease to be a stop sonants conditioning Dahl's Law, it is necessary, granting that Dahl's Law

distinguished from the usual nd in point of articulation.

There is no certain example of 'nt occurring as conditioning consonant within a morpheme. As has Mwimbi. Note that in neither, as far as I have been able to discover, is the result

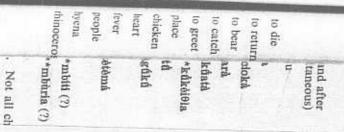
If there were, it might make revision of the statement for Southern Kikuyu necessary.

only, a stop or affricate again. Possibly there is some other explanation. For the moment, however, this must suffice.

Sk-11: In a few cases this does not in fact appear to apply: one finds corresponding to the Mwimbi glampa deform, barrel not the \*\*khaeha one khaeha expect from the \*khaeha of the stage before this, but rather it is simply that before Sk-9 there was beginning a change which would traces in the form of a few words with, after the post-nasal voicing, mhabsence of such cases with the dental—even if nt had, having become not have been voiced in Sk-9, and would have been which is doubtful, returned through such an abortive shift to nt, it would again, it is possible that this is due to a sporadic tendency within Northerm certainly exists (this would very well account for the Mwimbi form mpakari in place of \*\*mbakari mentioned earlier).

Chart 4 illustrates the working of most of the shifts shown in Chart 3 and discussed above, and may make clearer their effect on the present situation. In of voiceless stops to which Dahl's Law could apply, and in some cases the way in the cases of Kamba and Segeju, it may seem odd to speak of the fixing of at which, in those dialects, the post-nasal voicing, which I have chosen elsewhere possible, took place, and the point beyond which the positive fixing of Dahl's Law does not exist. However, this is the point to consider connected with the Dahl's Law voicing, which I have chosen elsewhere possible, took place, and the point beyond which the positive fixing of Dahl's Law. Needless to say, there are problem.

Needless to say, there are problems. The ordering is extremely uncertain in are comparatively few examples, if in a given case there are any at all, which the word most necessary to form the basis of a historical conclusion that a given source of information on the dialect. As a result, though one sees fairly clearly dialect cleavages, some of which must in turn rest upon phonologic evidence. The treatment of Southern Thagicũ \*mp is a case in point. Finding Kamba and Segeju treating it (except where the clearly earlier Ganda Law applies) exactly the



inoceros	yena:	topic	3345	PHI PHI	ticken	305	o greet	catch	o bear	o return	n die		
imphùria	impithi	abanthū	**Intêthêmå (?)	inkhóró	inkūkhū	ükünthű	пкракеция	икпикоагоа	ukhubiara	ukhubiokha (7)	ükükhúa		I. Thagicù— before T-1
mphùria	mpithi	ànthũ	**ntèthèmá	nkhórò	nktikhti	künthü	khūkeithia	khukuatha	Kuchiara	khūciokha	kűkhúa		II. Thagicu— after T-4
m¢ūria > m¢ūria	møithi > møiti	antů > andů	**ntéthémá > **ndétémá	nkórð > ngórð	nktikht > ngtikt	khüntů > kündů	khūkėithia > kūgėitia	khūkūatha > kūgūata	kūchiara > gūciara	khūciokha > kūcioka	kükhúa > gükúa	(a) Southern Kikuyu	
**m¢ùría > **m¢ùría	motthi > motti	àntů > àndů	**ntéthèmá > **ndétémá ntéthèmá > ndétěmá	nkórð > ngórð	nkthti > ngthti	khántá > kándá	kükhéi0la > gükéi0la	khűkűathá > kügűatá	kűchlará > gűciará	khúciokhá > kúcioká	kůkhúa > gůkúa	(b) Embu	
mpůžía > mbůžía	mpithi > mbiti	ànth > àndh	i ntěthémá > ndětěmá	nkóð > ngóð	nkúkhú > ngúkú	khántá > kándá	kůkhéi6la > kůkéi6la	khûkûatha > kûkûata	kůchíná > kůcíná	khůciokhů > kůcioků	kůkhúa > kůkúa	(c) Kamba	III. Dialects—before fixing (note that fixings are no
**mpùria (?) > **mbùria (?)	**mpithi (?) > **mbit (?)	àthờ > àtừ	**těthěmá > **tětěmí	nkóró > ngóró	**nktkht > **ngtkt	**kåthå > **kåd	**ktkhèi0ia > *'ktk#0ja	khtktatha > ktktat	kůchiarà > kůchri	khůclokhů > kůcloků	kůkhúa > kůkúa	(d) Segeja	III. Dialects—before fixing of Dahl's Law and after (note that fixings are not necessarily simulaneous)

kůkhúa > gůkúa khůciokhá > kůci

(e) Mwimbi

kůchlará > gůcia:

kůkhěi6la > gůkě khůkťathů > kůg

Chart 4: Illustrations of the Shifts and their effect on Dahl's Law. Not all changes taken into a

mphùria > mpùr

mpithi > mbiti

ntěthémá > ntětě nkhórð > nkórð nkűkhű > ngűkű kánthů > gántů

anthd > antd

kamba ts-before fixing of Dahl's Law and after fixings are not necessarily simultaneous) (d) Segeju

(e) Mwimbi

	7 14 2	A. A.A.
ntéthémá > ntétémá	**téthémá > **tétémá	т > паетета
nkhóró > nkóró	meoro > ngóró	-Boo
nktikht > ngtikti	**nkuknu > **ngükü	Nangu / ugusu
kánthá > gántá	Bibles < Duna.	> acat-a
kůkhěi6la > gůkěi6la	**Kükhéi0ia > **Kűkéi0ia	A - KUKEIOIB
khůkúathá > kůgúatá	knukuatha > kūkūata	na hunuana
kůchiará > gůciará	kuchiara > kuciara	hà bàbana
khůciokhá > kůcioká	khūciokhā > kūciokā	A Printer
kůkhúa > gůkúa	kűkhúa > kůkúa	> Kukua
TOTITIMATAL (3)		

and their effect on Dahl's Law. Not all changes taken into account have been discussed.

\*\*mpūria (?) > \*\*mbūria (?) mphūria > mpūria

mphùriá > mphría mpithi > mbiti

ntěthémá > ndětémá ànthứ > antứ

nkűkhű > ngűkű nkhóró > nkóró

kánthá > gántá kůkhěi0la > gůkěi0la khûkûatha > kûgûata kůchiará > gůciará khůclokhá > kůcloká kůkhúa > gůkúa (f) Tharaka.

indi

atha > ata

\*\*mpfthi (?) > \*\*mbiti (?)

mpithi > mbiti anthd > antd

> mbhžía - mbiti

#### IV. Final Forms

spread by borrowing at a time when the dialects were distinct but still in fairly others, or possibly in some cases simply independent developments or changes selves, or shifts which took place over a longer or at a more crucial period than occurs in a number of linguistically and geographically separate dialects, can be of i after e in words such as Kikuyu (and Mwimbi) güeò:ka, ' to return ', which other dialects. Most, if not all, however, of the changes whose distributions would close contact. fairly easily accounted for by assuming them to have been unfixed rules them-\*p and \*t and their later voicing, which are found in all dialects, and the loss seem to make the ordering given above untenable, such as the spirantization of not between Northern and Southern Thagicu, but between Kikuyu and all the a number of excellent reasons could be advanced for making the primary division worker in dialect geography, where different isoglosses point to different groupings: So that this is not really conclusive evidence for the closer interrelationship of rely too much on symmetry, and the fact that \*nt is not so treated proves nothing. conceivably be the result of the stopping, within Kamba, of a common Southern what contradictory evidence, doubtful; and the situation in Kamba might one assumes that Kikuyu is closer to Embu than either is to the other two. But same way as \*mb, while Kikuyu and Embu have not phonetically merged the two, Kikuyu and Embu. Again, there are the many cases, of the sort familiar to any Thagicũ \*mø or of an \*mø developed later as in Northern Kikuyu-one cannot the treatment of \*mp in Segeju, as stated above, is, because of scanty and some-

the idea that from the time of its introduction into Thagicu Dahl's Law took the unaffected voiceless series and the voiced consonants; I cannot, however, accept distinguishing the series of voiceless stops affected by Dahl's Law from both the present-day Thagicū but is by no means unknown in East Africa) or possibly implosive (which, like the aspiration of voiceless consonants, is not found in taken the form of an actual voicing, the original voiced series being at the time series, is not the only type of differentiation possible. It might, for example, have is not uncommonly found in Bantu languages (and in Bantu languages showing past, and in the second deaspiration, while it is convenient, and while aspiration today does not in itself necessarily give any clue as to the phonetic situation in the any time. To this I would point out that in the first place the phonetic situation voiceless stops, it is unreasonable to assume aspiration to have been present at able possibility, and parallels are known to exist. It has been objected that, as of aspiration by the first of two voiceless and aspirated stops; it seems a reasonfricative. I am not trying to make any special case for one of the ways of the present-day dialects do not in fact show any significant aspiration of their uncertain. In the Charts, partly for the sake of convenience, and partly because Dahl's Law) as a further feature distinguishing the voiceless from the voiced think it one of the most likely possibilities, I have chosen to present it as a loss The exact form of the original dissimilation is also, of course, and will remain,

reasons for doubting the likelihood of that, the break-up of the group into the various dialects, and I have already given my because of the differences between dialects, place the change's introduction after affected exactly as if they belonged to the voiced series. That would necessarily, form of the actual pronunciation of the voiceless series when in a position to be

work would be necessary which has not been, and may never be, done. linguistic histories would shed light on the subject; but a very great amount of of the interrelationships of the Bantu languages of East Africa and of their languages of East Africa, or after. It is conceivable that a detailed investigation the time of the entry may have been before Thagicu split off from the other the possibilities of independent innovation, inheritance, and borrowing exist; unsolved is the question of when and how Dahl's Law came into Thagicu. Again, A further problem which remains, and probabily will continue to remain,

dialects of Thagicu, and may not be, in any case, the truth. above account only for the differences between the forms it takes in the various through inheritance, but there is no way to be certain. The explanations attempted Thagicũ the dissimilation that was the first stage of Dahl's Law was present At the moment, I think it probable that even in the earliest distinct form of

to find a more firmly based answer to the question of the source and date of the changes known to have occurred in the various languages, it might be possible Dahl's Law. further, and, if enough work were done to establish the relative chronologies of difference in the form of the fixing of Dahl's Law between Mwimbi and Tharaka. Law as that in Thagicu. This would reduce the probability of coincidence even reasonable possibility that other languages had the same original form of Dahl's remain), and to show that, as far as can be known at the moment, there is a in history for the situations in other languages of East Africa which show Dahl's Law (though points which cannot at least at present be accounted for, such as the It is, however, possible to find similar, though equally tentative, explanations

other dialects that I have for Thagicu. to me is smaller, and for neither language have I the comparative evidence from historical statements than there has been above. The volume of data available dialects. Here, I should state, there is much less certainty of the accuracy of the languages of Kenya, Gusii and Luhya, as I have already treated the Thagicu To show that similar explanations are possible, I shall now treat two other

Sir Harry Johnston, The Uganda Protectorate, London, 1902, its presumable (compare the Kikuyu héhè; the form is attested as embeho in the vocabulary in in fixed forms; the word émbéb 'wind' shows mb for a probable \*mp before +p and nk, the conditioning consonants being t, s, e, k, nt, ns, ne, and nk. There would seem to be, as in Kamba and elsewhere, a few exceptions to this statement Dahl's Law is rather limited in its application. The only units affected are k In Gusii, as in Thagicu, which it resembles in a number of other respects.

> but there seems to be considerable variation. (silent) reflex of tp occurs between it and one of the conditioning of begin' with yaceagete, '4 began'. In some cases k is not affected and after nasals) but also in morpheme final position: compare 6 in the environments stated for Mwimbi (within a morpheme, in pref affects the velars only, however. This is very active, though, occurri reflex of \*mp seems to be  $\eta$  (mp > m $\phi$  >  $\eta h$  >  $\eta$ ). The dissimilation history being timpépò > imbépò > imbédò > émbéhò > émbéd), though

postulated for Thagicu, with the Dahl's Law dissimilation taking the s detectable historical events, starting from a state essentially the sai One might suggest the following as a reasonable sequence of so

G-3: Fixing of Dahl's Law, Gusii: The voiceless stops affected connection with the form of the fixing here. vocalic position a voiced stop corresponding, which may h Mwimbi situation; note that only for the velars did there exis †(n)t, †(n)t, †(n)e [ < \*(n)i] and †(n)k. This should be compare and otherwise with the series of voiceless stops unaffected by D The conditioning consonants were at the time the unaffected Law were reidentified with the voiced equivalents in the cases of

applies only within a morpheme. omitted) r, x, and the fricatives s and f only when they are reflexes of a stop (compare likkos), 'neck' < \*-koti with omuxási 'woman' < \*-k (I have no data on the theoretically possible members of this list which h tively  $\beta$ ,  $\alpha$  (here equals ts)  $\alpha$ , and  $\alpha$   $\sim$   $\alpha$ . The conditioning consonants are stops (normally realized as  $h \sim y \sim 0$ , s, r, and x) are affected, becomin it is closer in form to the general statement given at the beginning of the than is that of any of the Thagicu dialects or Gusii. All of the original In Luhya 1 Dahl's Law is, as said earlier, somewhat difficult to stat

of fairly closely related but distinct dialects; but it also includes a few forms of speas Logooli, which must be considered separate languages, though geographically and fairly close. The two dialects I have worked with, Nyole and Taconi, however clearly distinct, agree in most significant phonologic respects with one another and dialect of Appleby's grammar. This account is based on a synthesis of the three.

pronunciation of the voiceless series when in a position to be if they belonged to the voiced series. That would necessarily lerences between dialects, place the change's introduction after the group into the various dialects, and I have already given mying the likelihood of that.

blem which remains, and probabily will continue to remain, estion of when and how Dahl's Law came into Thagicu. Again, if independent innovation, inheritance, and borrowing exist intry may have been before Thagicu split off from the other Africa, or after. It is conceivable that a detailed investigation inships of the Bantu languages of East Africa and of their would shed light on the subject; but a very great amount of cessary which has not been, and may never be, done.

t, I think it probable that even in the earliest distinct form of nilation that was the first stage of Dahl's Law was present e, but there is no way to be certain. The explanations attempted y for the differences between the forms it takes in the various 1, and may not be, in any case, the truth.

possible to find similar, though equally tentative, explanations situations in other languages of East Africa which show Dahl's ts which cannot at least at present be accounted for, such as the rm of the fixing of Dahl's Law between Mwimbi and Tharaka, how that, as far as can be known at the moment, there is a lity that other languages had the same original form of Dahl's agicti. This would reduce the probability of coincidence even ough work were done to establish the relative chronologies of to have occurred in the various languages, it might be possible mly based answer to the question of the source and date of

similar explanations are possible, I shall now treat two other ya, Gusii and Luhya, as I have already treated the Thagicù hould state, there is much less certainty of the accuracy of the its than there has been above. The volume of data available and for neither language have I the comparative evidence from I have for Thagicù.

Thagicũ, which it resembles in a number of other respects, her limited in its application. The only units affected are k tioning consonants being t, s, e, k, nt, ns, ne, and nk. There as in Kamba and elsewhere, a few exceptions to this statement he word émbée 'wind' shows mb for a probable \*mp before †p uyu héhè; the form is attested as embeho in the vocabulary in n, The Uganda Protectorate, London, 1902, its presumable

history being % impépò > imbépò > émbéhò > émbéhò > émbéhò > émbéhò, though the normal reflex of % mp seems to be  $\eta$  (mp > mþ >  $\eta$ h >  $\eta$ h. The dissimilation regularly affects the velars only, however. This is very active, though, occurring not only in the environments stated for Mwimbi (within a morpheme, in prefixes, before and after nasals) but also in morpheme final position: compare égocaska 'to begin' with yácasgete, '4 began'. In some cases k is not affected when the (silent) reflex of †p occurs between it and one of the conditioning consonants, but there seems to be considerable variation.

One might suggest the following as a reasonable sequence of some of the detectable historical events, starting from a state essentially the same as that postulated for Thagicu, with the Dahl's Law dissimilation taking the same form:

G-1: †p > \phi (> h > \ell)

G-2: j>0

G-3: Fixing of Dahl's Law, Gusii: The voiceless stops affected by Dahl's Law were reidentified with the voiced equivalents in the cases of k and nk, and otherwise with the series of voiceless stops unaffected by Dahl's Law. The conditioning consonants were at the time the unaffected reflexes of t(n)t, t(n)t, t(n)e [< \*(n)t] and t(n)k. This should be compared with the Mwimbi situation; note that only for the velars did there exist in intervocalic position a voiced stop corresponding, which may have some connection with the form of the fixing here.

G4: \$ > 8

In Luhya <sup>1</sup> Dahl's Law is, as said earlier, somewhat difficult to state, though it is closer in form to the general statement given at the beginning of the discussion than is that of any of the Thagicũ dialects or Gusii. All of the original voiceless stops (normally realized as  $h \sim y \sim 0$ , s, r, and x) are affected, becoming respectively  $\beta$ ,  $\epsilon$  (here equals ts) t, and  $k \sim \delta$ . The conditioning consonants are at least (I have no data on the theoretically possible members of this list which have been omitted) r, x, and the fricatives s and f only when they are reflexes of a voiceless stop (compare likòsi, 'neck' < \*-kòti with òmùxási 'woman' < \*-kádi). It applies only within a morpheme.

of fairly closely related but distinct dialects; but it also includes a few forms of speech, such as Logooli, which must be considered separate languages, though geographically and culturally lairly close. The two dialects I have worked with, Nyole and Taconi, however, though clearly distinct, agree in most significant phonologic respects with one another and with the dialect of Appleby's grammar. This account is based on a synthesis of the three.

Here the following sequence seems likely (the ordering is a bit more certain than some of the earlier ones, owing in part to the number and type of relevant shifts), the starting point being again the same, except that (probably due to a shift after its separation from other languages, rather than the retention of an earlier realization) the unit corresponding to Thagicū \*j is identical in position with the equivalent of Thagicū \*j;

L-1: Fixing of Dahl's Law, Luhya: The affected voiceless stops became voiced, in all cases except that of intervocalic †t merging with the voiced equivalent, the conditioning consonants being, presumably, all (as stated above, the evidence is incomplete) of the unaffected voiceless series. It is interesting to note that this differs considerably from the form of fixing hypothesized for the other forms of Dahl's Law discussed, where there was not simple indiscriminate voicing.

L-3: †p, †t, †t, †k, †nt, and †nk when not affected by Dahl's Law became \$\dot\0, \sigma, \text{r}, \text{x}, \text{ns}, \text{and nx}, \text{respectively}; why \$\dot\0 \text{mp}\$ and \$\dot\0 \text{nt}\$ were not affected is not clear to me.

Here I must precede 2, 4, and 5; 5 must precede 7; 3 must precede 7 and 9; from dialects differing significantly from those on which this is based it is clear that 8 and 9 were fairly late.

I have in the above attempted, as stated in the beginning, to present what seems to me a reasonable alternative to the hypothesis that Dahl's Law was introduced into Thagicu from outside after the group had split up into the various

dialects. I do not claim that borrowing is ruled out altogether; the accept the borrowing of such a dissimilation in its final form, and that its introduction in any form at so late a date is highly improblement original dissimilation and the voicing of the stops involved may have in such a way; indeed, the latter, though I still have grave doub the probability of obstacles in the forms of tribes and physical bar likelihood of its having come into Thagicũ in such a way, might to view of its distribution, with the languages showing comparativel being found mainly to the west, around the eastern shores of Lake areas having apparently later fixings or none at all, have spread out

I have tried, using the data available on the histories of the dialeto account, in presenting the aforementioned alternative, for the extingersity shown by Dahl's Law within Thagicũ, and have incidental small attempt to show that similar hypotheses could be used to expect the extended on the assumption that Dahl's Law in any given language or dialethe original shift and its later fixing or loss, after various alteration of application through changes occurring in the interval, by the casubsequent change, giving the appearance, in the synchronic ordinates of a single change at the time of the second.

I cannot claim to have proved my point—this is impossible prehistory. I do feel that I have presented a reasonable possibility is likely to be not too far from the truth. It is my hope that this, it is, may stimulate others to consider the point in the languages familias, whatever the result, this will then be some contribution to the k linguistic relationships in East Africa, and to Historical Linguisuppreme goal is the reconstruction of the history of the language an

owing sequence seems likely (the ordering is a bit more certain earlier ones, owing in part to the number and type of relevant ng point being again the same, except that (probably due to a paration from other languages, rather than the retention of an n) the unit corresponding to Thagica \*j is identical in position ent of Thagica \*j:

of Dahl's Law, Luhya: The affected voiceless stops became all cases except that of intervocalic 7t merging with the voiced t, the conditioning consonants being, presumably, all (as stated e evidence is incomplete) of the unaffected voiceless series. It is g to note that this differs considerably from the form of fixing zed for the other forms of Dahl's Law discussed, where there imple indiscriminate voicing.

†t, †k, †nt, and †nk when not affected by Dahl's Law became ns, and nx, respectively; why †mp and †nt were not affected is to me.

, G > v // \_ u; K > s, G > z // \_ i

1

, n

j, g, v, z > c, t, č, k, f, s

Q.

recede 2, 4, and 5; 5 must precede 7; 3 must precede 7 and 9; iffering significantly from those on which this is based it is clear are fairly late.

he above attempted, as stated in the beginning, to present what reasonable alternative to the hypothesis that Dahl's Law was Thagicū from outside after the group had split up into the various

dialects. I do not claim that borrowing is ruled out altogether: though I cannot accept the borrowing of such a dissimilation in its final form, and am convinced that its introduction in any form at so late a date is highly improbable, both the original dissimilation and the voicing of the stops involved may have been spread in such a way; indeed, the latter, though I still have grave doubts, considering the probability of obstacles in the forms of tribes and physical barriers, as to the likelihood of its having come into Thagicu in such a way, might quite easily, in view of its distribution, with the languages showing comparatively early fixings being found mainly to the west, around the eastern shores of Lake Victoria, other areas having apparently later fixings or none at all, have spread out from a single centre.

I have tried, using the data available on the histories of the dialects concerned, to account, in presenting the aforementioned alternative, for the extreme formal diversity shown by Dahl's Law within Thagicũ, and have incidentally made some small attempt to show that similar hypotheses could be used to explain the even greater diversity within East Africa as a whole. My arguments have been based on the assumption that Dahl's Law in any given language or dialect represents not a single change, but rather a two-step process, involving the introduction of the original shift and its later fixing or loss, after various alterations in its field of application through changes occurring in the interval, by the occurrence of a subsequent change, giving the appearance, in the synchronic ordering of the language, of a single change at the time of the second.

I cannot claim to have proved my point—this is impossible in linguistic prehistory. I do feel that I have presented a reasonable possibility, and that it is likely to be not too far from the truth. It is my hope that this, tentative as it is, may stimulate others to consider the point in the languages familiar to them, as, whatever the result, this will then be some contribution to the knowledge of linguistic relationships in East Africa, and to Historical Linguistics, whose supreme goal is the reconstruction of the history of the language and its family.