

DEDICATION

TO

MY daughter MESSINA NKONGHO Marion Shirley and

All my informants

AKNOWLEDGEMENT

This work has seen the light of day thanks to many who contributed in one way or the other.

I am extremely grateful to my supervisor Professor NGESSIMO MUTAKA, for his perceptive help and patience in reading and re-reading the manuscript and also for the useful suggestions he made in the writing of this work.

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Abbreviations and Symbols used in this Study

C :	Consonant
V :	Vowel
ø :	Zero
1 :	Context / environment
= ;	Equal to
[] :	Phonetic transcription
11 :	Phonemic transcription
H/1 :	Hight tone
L/ :	Low tone
→ :	becomes / is realised as
# :	Word final position
#	Word initial position
# :	Word boundary
N :	Syllabic Nasal
C ₁ :	Initial consonant
C ₂ :	Final consonant
α :	Alpha (place of articulation)
vd :	Voiced
VI :	Voiceless
*	diachronic mark for proto-phoneme / hypothetical
	reconstruction
ART :	Advanced Tongue Root
PN :	Proto Nyang
PB :	Proto Bantu
	Summer Institute for Linguistics
	Atlas Linguistique du Cameroun
	editors
× /	

Transcription and Glossing

I have used the International Phonetic Alphabet for transcription, with the following notable adaptations to the Nyang languages

Symbol used	IPA	
С	IJ	(Voiceless Palatal – alveolar africate)
š	S	(VI Palatal alveolar fricative)
j .	dz	(Vd Palatal alveolar affricate)
n	ny	(Palatal nasal)
?		(Glottal stop)

Dialect Names

Abbreviation	Dialect	Village	(from which the data was collected)		
BAJ	Bajwa	Ntakwo			
BAS	Basho	Makwe			
BIT	Bitieuku	Bakumba			
СК	Central Kenyang	Bakebe			
KEN	Kendem	Kendem			
KIF	Kifu	Ayong			
KIT	Kitwii	Manyemen	`		
LK	Lower Kenyang	Egbekaw			
NUM	Numba	Numba			
ТАК	Takamanda	Bache			
UK	Upper Kenyang	Tali II			

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CHAPTER I

GENERAL INTRODUCTION

Languages are not static, but are constantly changing. The latest slang comes and goes. Our own language is subtly but noticeably different from that of our grandparents and the further back we go in time, the more remote and incomprehensible the language seems to be. Shakespeare's language is difficult for us; Chaucer's is even more so.

Fox (1951) makes the following remarks: "should we be bold enough to peruse the writings of King Alfred who lived in the 19th century, we will barely understand a word, even though he wrote in 'English.'"

Over the course of time, languages have diverged to the point where they are mutually incomprehensible. How and why did these changes come about and what means can we use to find out? Some of these languages and / or dialects that are affected by change are related. The 'family tree' theory suggests that a common ancestor developed differences in sound and grammatical structure and that a careful comparison of existing languages may show that they came from one same source. Hall (1950:20) thinks: "Obviously related but different forms are to be considered as developed from a common source, unless evidence to the contrary can be adduced."

The Nyang languages are greatly affected by these two phenomena. That is to say they are related and constantly affected by change. In this study, therefore, we shall make an inspection of the dialects and languages assumed to be related, reconstruct the early stage, give explanations and justifications to the changes that have occurred from what we consider to be the old form. In that case this work will be partitioned as follows.

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Chapter one gives a general introduction to the work beginning with the location, the term Nyang, the people, languages and dialects, linguistic classification, aim of the study, methodology, and previous research.

Chapter two treats a brief phonology and noun class system of the Nyang languages.

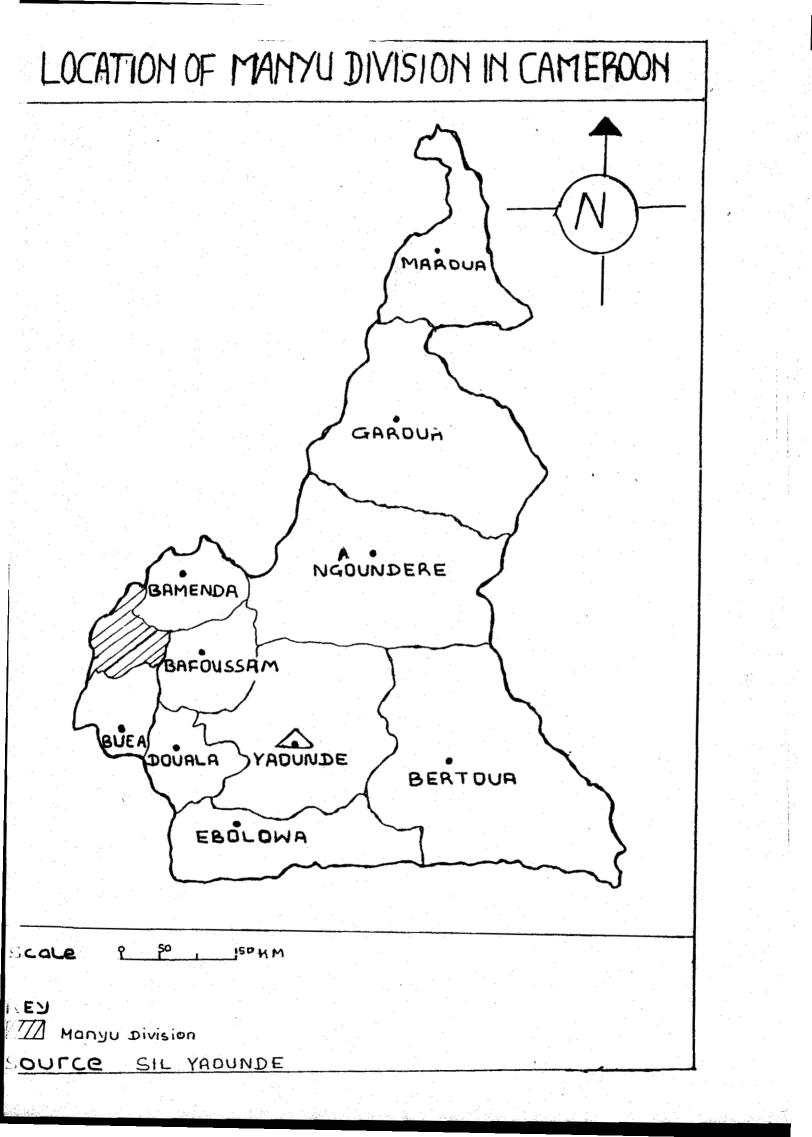
Chapter three reconstructs proto-Nyang both consonant and vowel sounds.

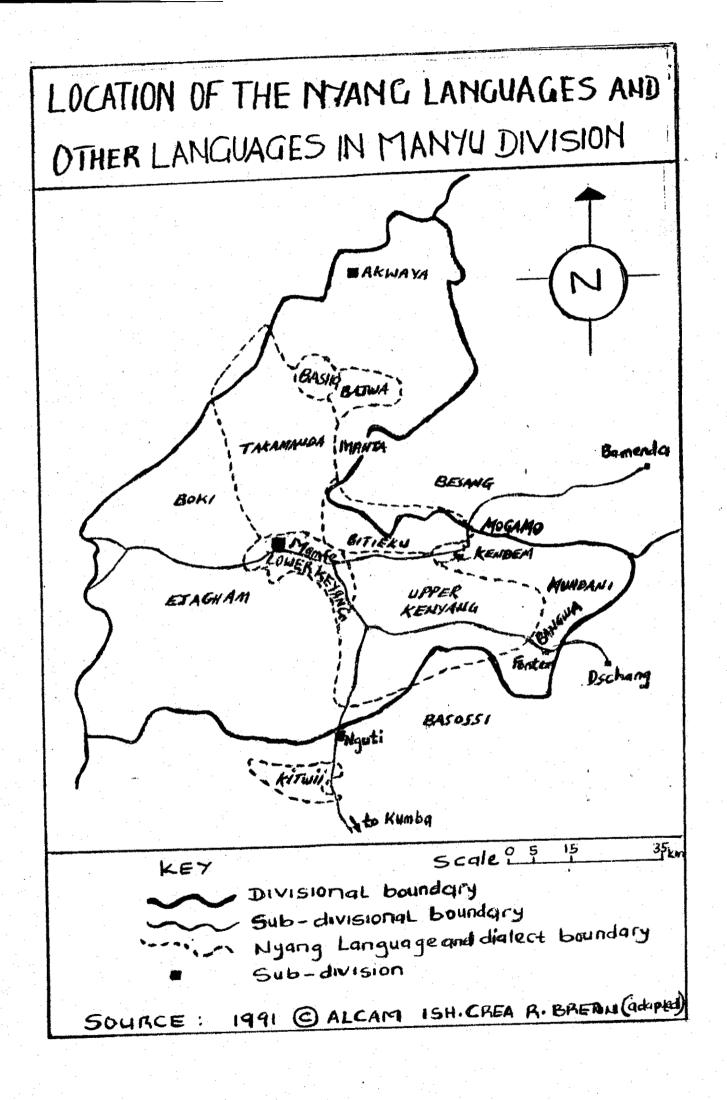
Chapter four examines the sound changes and reflexes of P.N.

Chapter five deals with the reconstruction of the noun class and concord system followed by a general conclusion.

1.1. THE LOCATION

The languages under study are spoken in the Manyu Division, South West Province of the Republic of Cameroon. The total polulation of the speakers of these languages is estimated to be above 160,000. The Nyang language area share boundries with speakers of other languages; such as, the Nigerians (Efik) to the East, Ejagham to the South East, Kupemanenguba to the South, and Mogamo to the West.





1.2. THE PEOPLE

The speakers of the Nyang languages call themselves 'Manyang'(the people of Anyang). Other tribes in Manyu Division, e.g. the Ejaghams call them 'Anyang', while other tribes, mostly out of Manyu, refer to them as 'Bayangi'. They occupy a good portion of the Manyu Division and are, in the main, peasant farmers, hunters, and fishermen. With the vast still virgin equatorial forest which is transversed by numerous large rivers, the Anyang people earn their living from the forest and rivers. They grow cash crop such as coffee, cocoa as well as other food stuffs such as cocoyams, yams, plantains, beans, cassava, melon, and a variety of vegetable such as Eru, green vegetable, water leaf, pumpkin leaves, etc. Big quantities of palm oil, vegetables, pineapples, garri water fufu, 'bush mango' are exported to Nigeria via the numerous rivers and bush tracks. Some are also exported to other provinces of Cameroon.

A vast majority speak both their language and some other languages as a result of a close contact between the languages through trade and inter-marriage. In fact 'multilingualism' is the appropriate term since the Anyang people speak Kenyang, Ejagham, Pidgin English, etc. The spread of these languages among the Anyang people stems from the lack of motorable roads. These people treck long distances from their villages to Mamfe town for business, medical services and administrative reasons. Government schools and Mission schools teach in English and French.

Culturally, the Ejaghams and Anyang people are related. They generally call themselves the Mamfe people. A lot of their tradition and cultural dances are borrowed from the Efiks from Nigeria

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1.3. THE TERM NYANG

Despite the fact that the languages around the area of study have a considerable variation of names at the lower level, there is generally a name for this particular group of language. The term 'Nyang' refers to a group of closely related languages spoken in the Manyu Division, South West Province of Cameroon. These languages are spoken by the Bayang people. The Bayang people call their language Kenyang. Previous linguistic studies have sometimes referred to it as 'Nyang' (Breton and Fohtung 1991: 125, Grimes 1992), while other ethnic groups call it 'Bayangi.' Other authors refer to it as 'Manyang.' But this term is used by the natives to refer to a single Kenyang speaker. In any case -Nyang stands as the root word. The Nyang languages include: Kenyang, Denya, and Kendem. In this study, we will present the language varieties and dialects that make up the Nyang languages.

1.4. LANGUAGES AND DIALECTS

A research topic such as this requires us to know whether each different clan speaks a separate language or whether they are only dialects of one single language. If mutual intelligibility is taken as the main criterion, then, not every form of speech dealt with in this study is a separate language. Several are mutually intelligible and therefore can be considered dialects of one language. This study has to do with eleven dialects that represent three languages.

'Kenyang' is spoken by the Bayang people and is referred to as 'Nyang'or 'Bayangi'. It is primarily spoken South of the Manyu River in Mamfe Central Sub-division. There are approximately 42,000 Kenyang

speakers living in 53 villages (Tyhurst 1983) There are three dialects of Kenyang: Upper Kenyang, Lower Kenyang, and Kitwii. The distinction is made based on pronunciation and lexical differences. Speakers of these dialects understand one another and they all speak 'Kenyang.' Some cultural practices differ between the three groups but they cling to their ethnic unity as Bayang people. The speakers of Kitwee refer to themselves as Batwii. The Bayang and Batwii people claim to speak two different languages because they are two separate ethnic groups. They acknowledge however that speakers of these two 'languages' can understand each other. There is however linguistic evidence (Tyhurst 1983) to show that the three dialects are similar enough to be considered a single language.

Denya is the term used by the Anya people for their language. It is spoken North of the Manyu River in the Akwaya Sub-division. There are 47 Anya villages containing approximately 10,000 people (Abangma 1981: 14) The various dialects are Bitieku, Takamanda, Basho, and Bajwa. Most people agree that these are all part of the same language although they admit that comprehension is difficult between some of the groups. Numba has also been included because, first of all, it is linguistically close, secondly, it is part of Denya speaking region.

Kendem, a speech variety ALCAM classifies as the Language 'Kendem' [833] is spoken in the two villages of Kendem and Bokwa. The Kendem Villages are located along the Bamenda-Mamfe road in the South West province of Cameroon. The area is surrounded by three different language groups. Two of these are the other two Nyang languages: Kenyang to the South and Denya to the North West. Moghamo, a grassfield language, is the neighbour on the North East (Dieu and Renaud 1983: 119). The language Kendem has no dialect. There are 1000 speakers of Kendem as specified in *Ethnologue* (Grimes 1992).

1.5. THE AIM OF THIS STUDY

The Nyang Languages are assumed to be related. This assumption can only be proven right by reconstructing the proto forms. The aim of this study is to reconstruct the phonology, noun class and concord system of the Proto Language (Proto-forms) from which the present day languages / dialects (cognates) are derived. We believe that the more we can reconstruct, i.e. the more we can account for similarities which cannot be due to chance, the more successful our demonstration of the genetic relationship of the Nyang Languages will be.

We also aim to study aspects of the languages and dialects that express relationship between them and their development from the protolanguage.

Lastly, this study is intended to make a contribution to the knowledge of the Nyang languages.

1.6. METHODOLOGY

To achieve the above aim, the comparative method will be used. This methodology has been used by several renown linguists amongst such as Joseph Greenberg who postulates that the comparative method is limited to the use of mass comparisons, a lexical inspection method used by the earliest classifiers of languages. His method is however opposed to that of the Indo-europeanists for whom only the establishment of sound correspondences could be considered a proof of genetic relationship.

Our methodology will be a blend of these two ideas. That is, we will compare words with similar forms and meaning, and then establish sound correspondences. Following the recommendations in *Language* Files (edited by Jannedy, Poletto and Weldon 1994), more specifically, in File 10.4, the major processes involved in the comparative method are the following:

Gather and organize data from the languages in question, forming cognate sets while making sure 'suspicious-looking' forms are eliminated.

2 Determine sound correspondences which exist between sounds in the same positions of each set of cognate words in the languages.

3 Determine the earlier form from which the cognates have descended, using two rules of thumb

a) The majority rule

b) Most natural development.

4 Determine for each set of cognates the older stage of the word in the parent languages and the sound changes which have affected the sounds in each daughter language.

Data collection and Organisation

In this study, the above method will be applied to three languages (several dialects). A word list of 260 items (made up of nouns, verbs, adjectives, pronouns, numerals, excluding loanwords) specially compiled to form the basis for the comparative reconstruction of proto-Nyang phonology, vocabulary and noun class system will be used.

The data is organized such that the three languages are interspersed with the dialects. Words which appear to be groups of cognates for the various languages / dialects by general inspection of materials, were lined up. Slight differences of meaning from language to language or dialect to dialect were ignored because our overall impression was that they are all related. Further data or materials from dialects such as Kitwii, Kifui and Numba were added to either confirm the reconstruction or provide evidence to the contrary.

1.7. CLASSIFICATION

One of the reasons for the reconstruction of the Nyang Nouns Class System is that the system has figured significantly in the debate over how to classify the languages along the North-West border of Guthrie's Bantu. Early linguistic sources show that it has been very difficult to attach the Nyang Languages to any linguistic group. These languages and many others which fall outside the borderline of North west Bantu as established by Guthrie (1967:20) were not given full status as Bantu. The noun class systems of these languages are often very strikingly similar to those of Bantu languages. However, there are certain irregularities in the system in terms of the typical Bantu noun class system and unclear sound correspondences. These irregularities were sufficient for linguists to classify the Nyang languages as Semi-Bantu (Johnston 1919) Sub-Bantu (Guthrie 1967) or Bantoid⁴.

It should be noted that in reading Guthrie's various writings that touch on the languages which border the North West boundary of Zone A, it is not always clear whether he is thinking of genetic relationships, typological relationships or lexical and grammatical 'contamination'

In contrast to Guthrie who focused on the dissimilarities of the languages bordering on the Bantu area, others like Greenberg and Crabb have focused on the similarities. In his classification of African Languages, Greenberg (1963) argued for the inclusion of not only Tiv within Bantu, but also, by the nature of his list of Benue-Congo languages, the Nyang languages within Bantu.

¹ The investigators of the Linguistic Survey of the Northen Bantu Borderland (1956: 14) applied the term Bantoid to languages in which Guthrie's secon criterion of Bantu language' a vocabulary part of which can be related by fixed rules to a set of hypothetical common roots' does not hold good. Also these languages have an elaborate system of class prefixes and agreement showing no regular relationship to the Bantu classes.

Talbot (1926) cited by Westermann (1952:114) in turn cited by Abangma (1987) considered Anyang to be a subsection of 'Bayangi.' Bayangi refers to Kenyang which is referred to as 'Nyang' by the Linguistic Survey.

Other earlier classifications made by some linguists include the following.

Jacquot and Richardson 1956 remarked that since the Nyang Languages adhere to Guthrie's (1948:11-12) classification, they should be regarded as a Bantoid language since it has both Bantu and non-Bantu features.

Williamson (1971) classified the Nyang languages as Bantu because, at this period, it was proved that both the noun prefixes and concord system are those of Bantu. She further argued that Guthrie's classification is based on typological and not genetic considerations since languages change over time.

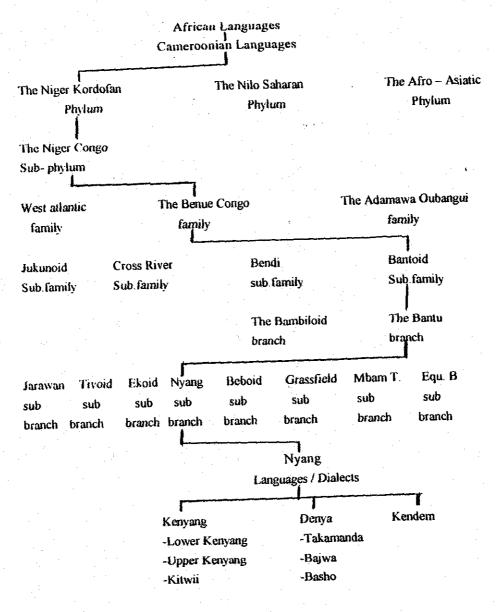
Voorhoeve (1980) also showed in detail the noun class and concord system as it relates to a more general problem of establishing criteria for classifying a language as Bantu or non-Bantu. According to him the Nyang languages are an intermediate stage between Proto-Benue-Congo and Proto-Bantu. In any case, one can see why the noun class system should be of interest for a comparative study like this.

Many of these classifications however show that the Nyang languages fall within the Wide Bantu of Greenberg's classification, while they are excluded from the narrow Bantu of Guthrie's classification.

Ethnologue (Grimes 1992:193) classifies the Nyang languages as Niger-Congo, Benue-Congo, Bantoid, Southern, Broad Bantu, Mamfe. This classification is confirmed by Bendor-Samuel (1981:433). Breton and Fohtung (1991:121) classify these languages as those belonging to the Sub-branch of wide Bantu (Bantou au sens large).

The sketch that follows is a genealogical tree of Greenberg's classification adapted from ALCAM (1983)

The Genealogical Tree of the Nyang Languages following Greenberg' s Classification of African Languages



Source : Adapted from ALCAM (pages 69,360)

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1.8. PREVIOUS RESEARCH

Prior to this study, just one document had been written on the Nyang languages as a whole. The research was carried out on the linguistic survey of the Nyang languages.

In 1983 the Tyhursts conducted linguistic and sociolinguistic surveys of the Manyu Division in the South West Province of Cameroon. They determined the existence of three distinct languages: Kenyang, Denya, and Kendem. Their findings are reported in Tyhurst and Tyhurst 1983, Tyhurst 1983 and Tyhurst 1984. Tyhurst includes an extensive phonemic and lexical analysis in his reports. He also includes an analysis of certain morphological features that give interesting insights into the relationship between the languages he surveyed.

Tyhurst (1984) titled "Cutural Identity Perceived as Linguistic Identity" presents the result of sociolinguistic questionnaires in the language surveys among the Nyang languages of Western Cameroon. He claims that the speakers' attitudes about dialect and language distinctions did not always agree with the language data obtained from the word lists. The different results obtained from linguistic and sociolinguistic the questionnaires have important consequences for language identification surveys and for a proposed language development program in the Nyang languages. In this same year, he wrote a report on the phonology of Kenyang. This report presents the result of the research carried out in Lower Kenyang dialect during 1982 and 1983, the structure of syllables in Kenyang, the interpretation of ambiguous segments, contrasts between the phonemes and factors which condition the occurrence of allophones for each phoneme and an analysis of suprasegmental features of stress, length, and tone.

In 2001 Heidi Anderson and Susan Kuger made another report on a Rapid Appraisal (RA) Survey of Kendem, one of the Nyang languages. This report which describes a preliminary sociolinguistic survey was carried out in order to assess the speech variety which the Atlas Linguistique du Cameroun (ALCAM) classifies as the language of 'Kendem' [883]. I have not come across any previous work on Kendem.

Abangma's "Modes in Denya discourse" (1981) appears to be the first major piece of research providing an in-depth analysis of a significant aspect of the grammar of Denya (one of the Nyang languages). The intent of his work is to account for the function of lower-level grammatical units, namely verb forms, in the context of Denya discourse structure. His work provides an insight into specific and unique use of Denya modes in Grammatical Structures above the sentence level.

Accounting for how languages function at the discourse level is gaining recognition for the contribution it can make to language development work.

Mbuagbaw has also produced a Denya alphabet and orthography statement (1994) and a description of Denya tone orthography (1995).

A similar research to this was carried out on the Manenguba languages by Robert Hedinger (1984) for his Ph.D. thesis titled 'A comparative historical study of the Manenguba languages.' Hedinger reconstructs the phonology, aspects of the noun class morphology and part of the lexicon of the proto-language from which the present day Manenguba languages are derived. The work equally throws more light on what constitutes the Manenguba languages as well as producing a classification which shows both relationships internal to the Manenguba and their relationship to some adjacent languages. He uses both the comparative method and the lexico-statistical method in his work.

DEFINITION OF SOME KEY WORDS

1) COGNATE: This refers to forms (or languages) which are genetically equivalent. In other words a set of morphemes from different languages that are derived from a single parent morpheme is a set of cognates. Consider the following examples from 4 hypothetical languages.

ku:lan kura kuran huran 'to beat' The above examples form a set of cognates

2) CORRESPONDENCE SET: The items that are to be compared for the purpose of comparative reconstruction correspond to one another in some sense; the set of such corresponding items as a whole therefore constitutes a correspondence set.

Example, taking from the hypothetical languages above [1], [r], [r] and [r] form a correspondence set.

3) REFLEXES: Correspondence sets which form a relationship are described as reflexes of the earlier form.

Example: L and r are reflexes of * 1

4) RECONSTRUCTED FORM: By working with dialects or languages of one period, the linguist may set up a series of formulas to indicate the various correspondences noted. A linguistic symbol so symbolized is a reconstructed form. The form kulan above is a reconstructed form that symbolizes the following correspondences

*k *u *l *a *ŋ

k: k: h u: u: u: u l: r: r: r: a: a: a: a ŋ: ŋ: ŋ: ŋ: ŋ

Reconstructed form * kulan

CHAPTER II

A BRIEF PHONOLOGY AND NOUN CLASS SYSTEM OF THE NYANG LANGUAGES

2.0. INTRODUCTION

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In a linguistic study like this, an account of the sound system and noun class system of the languages cannot be underestimated. The present chapter deals with the phonology of the three main Nyang languages: Kenyang, Denya, and Kendem, which are to be reconstructed in chapter three and four. The aim of this presentation is to make a definite statement about the total number of phonemes in the languages. The tone system and the syllable patterns are also treated. Finally, the noun class system of the languages will follow the phonological presentation.

Since these languages (but for Kendem) have reference dialects, the sounds on the following tables are recorded as those representing the reference dialects.

2.1. Kenyang Phonology

In this section, a quick look will be taken at the segmental phonemes. The transcription adopted is purely phonemic, i.e. it represents meaningful contrastive forms of the sounds.

2.1.1. Consonant Phonemes

	Labial	Alveolar	Palatal	Velar	Lab-Velar
Stops	р	ť	¢	k	kp
	b	d	j	g	gb
Fricative	s f	S			
Nasals	m	n	ji ji	ŋ	
Trill		E A			
Semi-Vo	wel		у	w	· · ·

The above table shows that there are 19 consonant phonemes in Kenyang.

2.1.2. Vowel Phonemes

Vowel phonemes in Kenyang are seven as shown in the following

table			•	
	Front	mid		Back
		· · · · ·		
High	i	i.	.л.	ц -
Mid	e	· .		0
Low		а		с

2.1.3. Syllable patterns

There are both closed and open syllables in the Kenyang language syllable structure. Consonant clusters have the form C_s where C represents any consonant and S represents one of the semi-vowels /w/ or /y/. Vowels and syllable nasals occur as syllable peaks. Syllables have the following possible forms

Syllable pattern	Example	Gloss	Syllable Pattern of this example	
V	[àtá]	jaw	V.CV	
N	[ìtí]	head	N.CV	
CV	[fá]	where?	CV	
CSV	[ćwq]	lend	CSV	
CVC	[d 5k]	go	CVC	
CSVC	[èfwét]	wound	V.CSVC	

Affixes (e.g., noun class markers, pronominal prefixes and verb affixes are limited to the forms V.N. and CV. Roots always begin with a consonant and are usually one or two syllables long.

For Kenyang and the other Nyang languages, the affricates [t_j] and [d_3] will be treated as the single segments /c / and / j / for the following reasons. First, there are no free occurrences of [j] and [3]. They are always limited to the sequence [t_j] and [d_3]. These consonants never occur in reverse position that is [jt] and [3d]. Secondly, in considering all the other consonants, we find that the only consonant clusters in a syllable are of the form Cw or Cy. If we consider [t_j] and [d_3] as phonemic sequences, this pattern will be violated, since it would lead to sequences of CCw and CCy.

e.g /ácwí / [a-tʃwí] 'canoe.'

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2.1.4. Lones

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Kenyang has two phonetic tones, viz: The High ($^{\prime}$) and the low ($^{\prime}$) tones. Other surface forms such as the rising ($^{\prime}$) and falling($^{\prime}$) tones are derived. The following examples serve as evidence for the phonetic distinction

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Low (`)

High (´)

{ìnbòk}	' hole'	[bárí]	' tongues'
[bàbè]	' births'	[bàtú]	'ears'
[bèbà]	' bags'	[bàbé]	' medicine'
[nta]	' hat'	[ŋgő :]	' tail'
[ètè]	' pot'	[tén]	' ride

2.2. Denya Phonology

The following section presents the phonology of the Takamanda dialect of Denya. There are 20 consonant phonemes involved.

2.2.1. Consonant Phonemes

	Labial	Alveolar	Palatal	Velar	Labio -velar
Stops	р	t	с	k	kp
	b	d	j	g	gb
Fricative	s f	s	• •		
Nasals	m	n	ր	ŋ	ŋՠ
Lateral		L			·
Semi- Vo	ow w		y i		

2.2.2. Vowel Phonemes

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to a second A second	Front	mid	Back
High	i	•	ิน
mid	e		, , ° O
Low	£	a	. C
÷	5		

2.2.3. Syllable Pattern

Denya exhibits both close and open syllables. Only nasals occur as syllable final consonants and they are homorganic with the initial consonant of the following syllable. There are no consonants in word final position. The only consonant clusters to occur within a syllable are of the form Cw. There are no examples of the cluster Cw occurring in a closed syllable.

Syllable	Example	Syllable Pattern	Gloss
Pattern	and an	of this example	
			۰ ۱
V	[è.tú]	V.CV	'ear'
N	[Ŋ_gá]	N.CV	' knife'
CV	[fa]	CV	' here'
CwV	[má.kwè]	CV.CwV	' hills'
CVN	[némbè]	CVN.CV	' breast'
	[gin.tw´mè]	CVN.CVCV	'hunting'
	[mǎŋ.ka]	CVN.CV	' to know'

2.2.4. Tones

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The Denya language has two tones underlyingly: the High ($^{\prime}$) and Low ($^{\circ}$) tones. All the other forms are derived just like Kenyang. The following examples provide lexical evidence for tones in Denya

Low () H	igh (´)	· ·
. { û }	' wipe'	[tí]	' pierce'
gèbà	' a bag'	[gébá]	' a spot'
[à nò]	' husbands'	[gèwá]	' a dry'
{mbò }	' short'	[k5]	' small'
[émè]	' eye'	[ètá]	' five'

2.3. Kendem Phonology

It is important to note that the language of Kendem is still virgin in so far as linguistic research is concerned. Hence the information presented in this study is based mostly on what we have on the data. Tyhurst (1983) (which is the only linguistic work on Kendem) presents sketchy information about the language.

Kendem shows evidence of seventeen consonant phonemes. They are presented in the following table:

	Labial	Alveolar	Palatal	Velar
Stops	р	t	c	k
	b	d	j	g
Fricatives	f	S		
Nasals	m	n	n	ŋ
Lateral			•	
Semi-, Vow	W		у	· *

In Kendem, the voiced fricatives and the flap are intervocallic allophones of the voiced stops.

Example b
$$--> \beta / V - V$$

d $--> r / V - V$
g $--> \gamma / V - V$

2.3.2. Phonemic Vowels

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ALC: N

Column 1

There are only six phonemic vowels in Kendem

	Front	mid	Back
High	i		u
mid	e	ວ	Ö
Low		а	· · · ·

2.3.3. Syllable Patterns

The following syllable types are attested in Kendem

Syllable Pattern	Example	Syllable pattern of this example	Gloss	
V	[èné]	V.CV	' bird'	
N	[mbù]	N.CV	' hole'	
CV	[17]	CV	' he / she'	
CVC	[tóŋ]	CVC	' show'	
CSV	gyé	CSV	' see'	
CSVC	[kwan]	CSVC	' sing'	

In Kendem syllable final consonants are restricted to

- Voiceless stops [p] [t] [k] which are unreleased in word final position.

-The nasals [m] [n] and [ŋ]. [ŋ] does not occur

-The fricative [h] and the glottal stop [?]

2.3.4. Tones

Like the other Nyang languages, Kendem has several surface realizations but principally there are two underlying tones: High (') and Low (`)

Low

High

[ñyè]	' year'	[ñyé]	' eye'
[òkwò?]	otd'	[ðkwó?]	bed'
[òkwò]	' leopard'	[ondí]	' woman'
[lèbèn]	' rock'	[nóm]	' bite'
[hei]	' corn'	[ásáŋ]	'livers'

Labialisation and Palatalisation; a common feature in the Nyang languages.

The feature of palatalisation and labialisation are wide spread in the Nyang languages. They are considered here as features of syllables. One of the advantages gained by such treatment is economy in terms of total number of phonemes set up for each of the languages. Palat / Lab is realized phonetically as [CyV], [CwV] or [CiV] sequence depending on the consonant in the onset slot of the syllable. The table below shows

which consonant phonemes can occur with labialisation / palatalisation in the Nyang languages.

A consonant is marked ' + ' if it can occur with Lab / Palat. ' - ' if it cannot occur

n w kp P b f m t d r s n L c j y k g gb + + + +Ken. L ╋ + ++ + + p Den. L +р Kend. L P

Examples of Palat / Lab in the Nyang languages

Kenyang		Denya		Kendem	Kendem	
kwó kwət	' near'	cwí	'slice'	twánè	'leave'	
ŋwàt	' scratch'	pwì	' wrap'	swénê	' wash'	
nyú	' drink'	cyeé	'give'	gyé	' find'	
kyép	'shell'	kyé	' pluck'	nyé	' eat'	

2.4. THE NOUN CLASS SYSTEM OF THE NYANG LANGUAGES

The Nyang languages are noun class languages. It might seem unnecessary to illustrate a feature such as this that is well known already given that authors such as Voorhoeve (1980), Tyhurst (1984), Ittman (1935) have treated the noun class system of Kenyang most especially. But since very little work has been done on Kendem and to an extent Denya, and most of these languages show innovations in the Noun Class prefixes and above all the noun classes are to be reconstructed later in this study, it will not be out of place to treat briefly this phenomenon. In the present section we will give examples of different classes and concord system. This will ease the understanding of what will be treated in chapter four.

2.5. The Kenyang Noun Classes

So far, eleven noun classes have been established in the Kenyang language. They have been numbered to correspond to the PB noun class numbers as adopted by Meeussen (1962). The classes are grouped in pairs representing the Singular / Plural contrasts. These pairs are termed genders.

Class	PB	Kenyang	Example	Gloss
		prefix		
1	*mu-	Ň-	m – fò	' chief'
		ta-	n – ném	' husband'
			tá – bìnì	' house'
2	*ba-	ba-	bà – fð	' chiefs'
3	*mu	Ň-	m – bàŋ	' horn'
		a-	á – cwî	' canoe'
5	*le-	nè-	nè – pém	' life'
		N-	ǹ - tay	' stone'
6	*ma-	bà	bà – tày	' stones'
		a-	mà – nà	' thighs'
	. , .		à – mó	' hands'
6a	*ma-	bà	bá – yá	' pepper'
			mà nùŋ	· blood'
7	*ki-	c-	è −tộg	' village'
	a series of		e – nog ^{v *}	' tree'
8	*bi	be-	be – tog	' villages'
			mè – nog	' trees'
9	*N-	Ň-	ǹ −sòg	' elephant'
10	*N-	Ň-	ǹ − sòg	' elephants'
19	*P	sè-	sé – ncéb	' lump'
13	*tu	kè-	ke – ncéb	' lumps'

As exemplified in the table, the nasal prefix N- is homorganic with the initial consonant of the root. In Lower Kenyang (the reference dialect) the prefixes /ba-/ and /be-/ for classes 2, 6, 6a, and 8 have the morphological variants /ma-/ and /me-/ when the noun root begins with a nasal consonant. This assimilation does not occur in the upper Kenyang and Kitwii dialects. For class 5, ne- has been chosen as a class five noun because it resembles PB class 5 *le- as reconstructed by Welmers (1973: 165). More will be said about the noun classes in chapter 5.

2.6. The Denya Noun Classes

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The language has been analysed as having eleven noun classes which function to mark number of noun and its gender. Abangma (1981)

Class	PB	Denya	Example	Gloss
		prefix		
•	*mu-	N-	m –aá	• child'
		me-	me – fwé	' slave'
2	*ba-	a	a – fwé	'slaves'
		ba-	baá	' children'
3	*mu-	٤-	e- tú	' ear'
		mè-	mε -kwé	' hill'
5	*le-	nè-	nε – nómè	' tongue'
		N	n - ta	' stone'
6	*ma-	ma-	mà – tá	' stones'
		a -	á – mè	' eyes'
6a	*ma-	ma-	ma – ná	' water'
7	*ki-	ge-	ge –bá	' a bag'
8	*bi-	u-	u – bà	' bags'
9	*N-	N-	ŋm – ŋmè	' goat'
-		me-	me – w è	' tortoise'
10	*N-	N-	ŋm – ŋmè	' goats'
		me-	mε – wè	' tortoises'
19	pi-	fi-	fi - sô	' hip'
13	*tu-	d e-	de -sò	' hips'

2.7. The Kendem Noun Classes

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Basing our arguments on the data we have, there are eleven noun classes in Kendem. The numbering system is based on Voorhoeve's (1980) and Tyhurst's (1985) anaylysis of Kenyang. These classes are exemplified below.

Class	PB	Kendem	Example	Gloss
		prefix		
t	*mu-	N-	m – má	' mother'
		0-	ð – ndí	' woman'
2	*ba-	á-	á – ndí	' women'
3		0-	ò – lì ŋ	' village'
	*mu-	£-	ε - tù	' ear'
11 -		N-	m – mbù	' hole'
5	*le-	lè	lè – bèn	' rock'
		N-	n – sáŋ	' liver'
6	*ma-	a	a – sáŋ	' livers'
6a 👘	*ma-	a-	a-fòm	' fat'
7	*ki-	ke-	ke – gôh	' bone'
8	*bi-	0-	o-gôh	' bones'
9	*N-	N-	n – jû	' panther'
		0-	ò – nyâ	' animal'
10	*N-	N-	n — jû	' panthers'
·		0-	õ – nyâ	' animals'
19	*Pi-	È-	è – sό ŋ	' hip'
13	*tu-	lε	le – sóŋ	' hips'

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2.8. NOUN CLASSES FOR THE DIALECTS NOUN CLASSES FOR BITIEKU AND NUMBA · · ·

	nD	Bitieuku	Example	Gloss
Class	РВ		Елатріс	C.C.
		Prefix	me-nd í	' woman'
l .	*mu-	mê-	1	' child'
		N-	m – mæ	Chird
			à ndí	' women'
2	*ba-	a-	a - ndi wò – nté	' fathers'
	3 	wò-	WO = HCC	Tathers
				' ear'
3	*mu	ε-	ê−tù	
		me-	mε – kwé	' hill'
		N-	m – bíð	• horn'
5	*le-	lè-	lè – kò	' spear'
		N-	n tá	' stone'
6	*ma-	ma-	mà – tá 👔 👘	* stones'
		a-	a – mô	' hands
6a	*ma-	ma-	mà – næ :	' water
vu				
7	*ki-	kε-	kě – gó	' bone
. "				
8	bi-	0-	0 – gó	'bones
0	01-	0-	5	
9	N-	mu-	mù - ʃù	' elephant'
9	14-	N-	niù 54 niù niù	' goat'
		14-	ijin ijino	D
			mù - <u>f</u> ù	' elephants'
10	N	N		' goats'
10	N-	N-	ŋ'n – ŋmè	50000
		mu-	à	
			è – sò	thin?
19	Pi-	ε-		' hip'
1997 - 1997 -			$\mathbf{l}\hat{\mathbf{e}} - \mathbf{s}\hat{\mathbf{j}}$	thing?
13	tu-	ε-		' hips'

(and a second

NOUN CLASSES FOR NUMBA

Class	PB	Numba	Example	Gloss
		Prefix		
1	*mu-	0-	ò ndí	' woman'
		N-	n mæ	' child'
2	*ba-	a-	à-nd í	' women'
· · · · ·		a-	à – tá	' fathers'
3	*mu-	ε-	è-tù	' ear'
		0-	ò-kwè	• hill?
		N-	m-bíà	' horn'
5	*le-	le-	lè kó	' spear'
		N-	n – tá	' stone'
6	*ma-	a-	à – tá	' stones'
		a-	à – mó	' hands'
6a	*ma-	a-	a – nă	' water'
7	*ki-	ke-	kè – gŏ	' bone'
8	*bi-	0-	o – gŏ	' bones'
9	*N-	N-	ŋṁ –ŋmè	' goat'
		0-	o – sú	' elephant'
10	*N-	N-	ŋṁ – ŋmè	' goats'
		0-	ò – sú	' elephants'
19	*Pi-	ε-	ε-sô:	' hip'
13	*tu-	dε-	$d\epsilon - s\hat{o}$	' hips'

CHAPTER III

31

RECONSTRUCTION OF PROTO – NYANG

3.1. INTRODUCTION

This chapter may be viewed as a projection backward in time based on the languages spoken today. It deals with the reconstruction of consonants and vowels of the Nyang languages. It will focus on the present day sound from which we can project back into the past to establish what the original Proto-Nyang sounds probably must have been. The reconstruction of the PN sounds was done using the following method.

To begin with, a data was collected in the field using a wordlist of 260 words. These words were transcribed, then for each gloss, the words given by the speakers of the different languages were collated. This served as sets of cognate items from which recurrent sound correspondences could be abstracted. The set of sound correspondences were then examined to determine which proto-phoneme they probably represent, and each correspondence set given a label in the form of a starred symbol.

3.2. CONSONANT RECONSTRUCTIONS

In this section, we will present the consonants. The reconstructions are based mostly on the noun and verb roots, a majority of which have the structure CV, CVV, CVC and CVCV. The range of consonant sounds occurring at root final position is generally more restricted compared to root initial position. For this reason, a distinction is made between the first consonant (labeled C_1) and second consonant (labeled C_2) Each set of consonant phonemes shall be followed by examples from cognate sets which will serve as basis for the establishment of a protophoneme

3.2.1. CONSONANTS IN C. POSITION

Voiceless stops p, t, and k

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(301)	/p/	'Two'	'plant'	"White"
	LK	bé pày	pì	pépép
	СК	be páy	pî	pép' pèp
	ŮK	be pày	pì	pépèp
:	ĶIT	bì pây	pî	bìréì
· · ·	KIE	bì pá	pí	pèrèrí
·	KEN	ó pá	pê _y .	pàp ^h pàp
	NUM	ò pá	pè	pù
a A Stational Angel	BIT	ò pa	pe	púpú
	ТАК	é pá	pe	pòpò
· · ·	BAJ		pè?	. . .
	BAS	opà	pè	թմթմ
(302)	/1/	'stone'	'father'	'ear'
	LK	ì' táy	é' tá	àtú
	СК	ì' táy	é tá	àtú
	UK	h' táy	ta	àtú
	KIT	n' táy	táy / tsi	atú
·	KIF	n' tá	tsi	àtù
	KEN	n' tá	átá	Ètù

			and the second			
		NUM	h' tá	àtă ₍),	Ètù	
		BIT	n' tá	ìté	ètù	
		ТАК	n' tá	hté	ètú	
•	7	BAJ	n' tă?	nté	êtù	
	· · ·	BAS	n' tà	nté	êtù	•
	3				. · ·	
(303)	/k /	'root'	'new'	'walk'	' fall'	'sing'
						· .
	LK	ỳ kàŋ	è' kôkò	kð	kwén	kwáy
	CK	ỳ káŋ	è' ko	kô	kwén	kwây
	UK	ỳ káŋ	è' kô εkô	kó	kwén	kwáy
	KIT	<u>ỳ</u> kàŋ	è' kò	kàû	kwén	kwáy
	KIF	ŋ káŋ	è' kíŋ	kî	kwèn	kwó
÷	KEN	a káŋ	ké kíè	kíè	kwén	kwáŋ
	NUM	o ka	okíè	kénè	kwé	kwá
	BIT	me'tð	e' kíè	kíè	kwé	kwà
•	ТАК	me kà	o' ké	ke	kwé	kwá
	BAJ	Weggender:	· · · · · · · · · · · · · · · · · · ·	tſè	kwé	
	BAS	me'ká	mèkíè	kíyè	kwè	kwá

The above cognate examples allow us to do our reconstruction in the following manner.

In the following chart, the top row labeled PN represents the phonemes reconstructed for Proto-Nyang. Below each starred protophoneme are listed the set of sounds corresponding from language to language and on which the reconstruction at the top is based.

PN	*p		*t	*k
		•		· · · ·
LK	р	•	t	k / kw
CK	р	. 1 .	t -	k / kw
UK	р		t	k / kw
KIT	р		t	k / kw
KIF	p		t j	k / kw
K EN	р	•	t e	k / kw
NUM	Р	n Na Sara	t,	k / kw
BIT	р		t	k / kw
TAK	р		t	k / kw
ВАЈ	. .		t _{sol} s	(tʃ) / kw
BAS	р		t	k / kw

From the above tables the reconstruction of voiceless stops *p *t *k is clear, except that *k has the correspondence set k / kw in all the languages. We noticed that in all instances where we find kw it is followed by a vowel. This seems to suggest that the earlier sound for this set is /k/ which has become labialised due to the environment. That is to say, underlyingly the root is -kuen- but because of the vowel clusters, the vowel u has been labialised to the segment kw.

As for the BAJ set which rather presents ts and kw in place of k, there was just one example for each case and as such not convincing. This is the reason why the form is in brackets.

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(304)

3.2.2.	Voiced S	Stops b	d g		
(305)	/b/	'dance'	'horn'	'sky' 'g	ive birth'
•	LK	bèn	m' bàŋ	nè bù	bé
	CK	bèn	m báŋ	de bû	bê
	UK	bén	m báŋ	de bú	bê
· · ·	KIT	bén	m baŋ	dì bû	bě
т.,	KIF	bèn	m báŋ	dì bù	bî
	κεν	bén	m bìáŋ	le bú	bíèn
	NUM	bé	m bíà	mfáy nèbú	bíè
	BIT	bí	m bíð	lè bú	bíè
. ·	TAT	bè	èm' bíà	nfánè bử	bíè
	BAJ		m bíà	nfá nóù	víè?
	BAS	bìć	mbíà 🔛		víè
(306)	/d /	'clothes'	'what	•	•
	LK	à'dèn	yî		· · ·
	СК	n'dèn	yî		•
• • • • • •	UK	n'dén	dʒì	• •	
	KIT	n'dén	dzì		
	KIF	n'dèn	dzì		
	KEN	n'dèn	n'dí		
	NUM	n'dě	n'dì		
	BIT	n'dě:	n'dé		
	TAK	n'dê	n'dé	• •	
	BAJ	n'dě ?	n'dí		
	BAS	n'dé	n'dí		· . · .

(307)	/g/	'knife'	'salt'	' hear'	'vomit'
	ĿК	ìgàk	ìgán "	yók .	gwó
· . . ·	CK	ŋgák	ngáŋ	yok	gwà
	UK	ngák	ŋgáŋ	wók	gwò 📜
	KIT	ŋgáh	ngán	wùk	gwò
	KIF	monsô	ŋ'gáŋ	wók	gwò
	KEN	ŋgá	oyaŋ	gú?	gwô
	NUM	ŋgá	γá	gù	gwô
· · · · ·	BIT	ŋgá	mò' à	gù	ĉwĵ
	ТАТ	ŋgá	mè' gá	ù	wô
	BAJ	ŋgá?			₩Ô
	BAS	ŋgá?	mèxâ:	fítì	wô
		· · ·			
(308)	PN	*b	*d	*g	
		· · ·			
	LK	b	d / y	g / gw / x	
	CK	b	d / y	g / gw / r	
· .	UK	. Б. –	d / d3	g/gw/r	
·	KIT	b	d / d3	g / gw	•
	KIF	Ь	d / dz	g/gw	
	KEN	b	d i se	g / gw / r	•
	NUM	b	d	g / gw / x	•
	BIT	b	d	g / w	
	TAK	b	d 👘	g / w	
	BAJ	b / v	d	g/w	· .
	BAS	b / v	d]g / w / ¥	

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The voiced stops in most cases do not pose any major problem of reconstruction. The sounds b, d, g have been reconstructed as *b *d *g in all the languages. However, most of the reflexes show evidence of having become either fricativised or labialised. For instance V has been reconstructed as *b in BAJ and BAS. Also *d in some cognates is realized as d3 in CK, UK, KIT, KEN and NUM. While $g / gw / w / \gamma$ is reconstructed as *g in almost all the languages.

The above reflexes and their sound correspondences are phonetically plausible, so the possibility that the old sound could be b, d, g cannot be ruled out. In Kenyang and Kendem languages, /g/ has a fricative allophone when it occurs intervocallically

e.g $g - > [\gamma] / V - V$

The cognate set for ' salt' illustrates:

LK: ŋgáŋ

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KEN: o yaŋ

LK: jì gép ' thief' bà yép ' thieves'

3.2.3.	Fricatives: s.	, f a	nd Affricates	c, j
(309)	/s/	'Elephant'	'Twenty'	'Fish'
	LK	n sòk	è' sá	n sì
1	СК	n sók	e sâ	n sî
	UK	n sòk	e sà	n sì
	КІТ	n sùk	e sáù	n sì
	KIF	n sùk	e' sâ	n sì
	κεν	ó sùk	ɛ' sàm	ò sử
	NUM	o su	e'sà	òşû
	BIT	mè∫ù?	£' \$Ĵ	mù∫ŭ:
	ТАК	mè∫ù	ε'sâ	me∫ŭ
	BAJ	mè∫ù		me∫ŭ
	BAS	mè∫ù:	è'sâ	kɛ∫wâ

(310)	/ f/	'blow'	'fat'	'pour'
	LK	fép	bàfó	fìé
	CK	fép	bàfô	fie
	UK	fép	bàfò	ko
	КІТ	fép	bafóù	fíè
n an	KIF	f.έp	bàfô	ſſè
	KEN	fên é	áfom	fřè
	NUM	finé	àfò	fánè
	BIT	fínè	màfá	fánè
т., т. т. т. Т	TAK	61	mafà	fíè
en e	BAJ	àfúnùŋgú		fié
· · ·	BAS	fúnù	mafwâ:	fié
(311)	/ c /	'give'	'egg'	'red'
	LK	ıſìé	net∫î	t∫ù
· .	СК	t∫é:	nεt∫î	tſù
· · · ·	UK	t∫íè	dɛtʃî	tſù
	KIT	tjè	dìtfi	t∫ù
	KIF	ıjè	dîki	tſù
	κεν	kò	lékwat∫î	tʃù
	NUM	t∫ê	ekwatjî	t∫ùt∫ù
	BIT	tʃê	lekwatfi	kìgélè
	ТАК	tjíè	nekwatsi	megélè
	ВАЈ	t∫ê:		
	BAS	kié	nukwút∫ù	égòlw

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(312)	/j/	'feather'	'pull'	foot / sole'
	LK	è' yòk	yà	nè'yàt
•	CK	e dzók	yă	dè dʒát
	UK	e dzwák	dzò	dè dzát
	KIT	e dzôh	dzáò	dì dʒâ:
	KIF	e dzos	d3á : m	dì dʒát
	KEN	dʒòh	dʒam	le gâ?
· · ·	NUM	dʒó	dzá	lè dzát
	вп	gì' á	tigetô	kè kìá
	ТАТ	dzágè	dzá	né dzáně
	ВАЈ	yà: ko	lansaara	nè yà
	BAS	fíntwò .	gia	nè ánòkò

Given the above cognate sets, the phonemes /s/f/c/ and /k/ will be reconstructed as follows

reconstruc	cted as tonow	VN .		•	
(313)	PN	*s	*f	*c	*j
	LK	S	f	t∫	У
· · · · · ·	СК	S	f	t∫	d3 / y
	UK	S S	f	t∫	dz
	KIT	S	f	t∫	dz
	KIF	S	f	t∫	dʒ
	KEN	S	f	tſ	dz
· .	NUM	S	f	t∫	dʒ
	BIT	s/S	f	tĵ	g / k
•	TAK	s / §	• .* f	tſ	` d3
	BAJ	s/5 -	ſ	tĴ	dʒ
	BAS	s/ʃ	f	tſ	dʒ
				· · · · ·	

Some of the languages have the palato-alveolar \int in some roots. Hence s/ \int has been reconstructed as *s because the main reflex is an alveolars. The phonemic status of \int is not very clear. The uncertainty here might be explained if one takes into consideration the corresponding PB reconstruction which is the palatal stop *c. The development from a palatal stop to S was probably through intermediate steps including a palatal or palato-alveolar affricate and fricative. The possibility that in Proto Nyang, *s might still have been palato alveolar or that [s] and [\int] were in free variation in some contexts cannot be ruled out. Meanwhile, y for Lk has been reconstructed as *j because y in Lk corresponds to j in UK and KEN. Other cognate examples include

(3.14)	LK	Uk	KIT	GLOSS
				· · · ·
	èyé	εjé	ejí:	leaf
	yí	jí	ε' γί	he / she
-	· · ·	с. 1917 г.		

3.2.4. NASALS m, n, n, n and w, r

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and the second

The following congnate sets justify the occurrence of m in C_1 position

	(3.14)	/ m /	'mother'	'child'	ʻl (me)'
		LK	má	mò	mê
	•	СК	má	mô	mê
		UK	má	mò	mê
· · · · · · · ·		KIT	ma / níè	mòú	mì
, , ,		KIF	níè	mò	mì
	•	KEN	ma	ŋmŋmá	mô
	1.	NUM	nâć	mě :	mê
	н 	BIT	mô	má:	mì
	:	ТАК	má	mæ:	me
		BAJ	má	mǽ	mù
		BAS	má	mâ	mê
			· .	ł.	•
	(3.15)	/ n /	"bite"	'husband'	'dry season'
	н 			e A	
		s LK s	n ém	n ém	è'nèm
		СК	n ém	n èm	e nêm
		UK	n ém	n ém	e nèm
и – – – – – – – – – – – – – – – – – – –		KIT	n èm	n ém	e nèm
		KIF	រា ខញ	n ém	e ném
(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		KEN	nom	'ò'nô	kénòm
: ·		NUM	ćn	o'nò	kènómà
· ·	·	BIT	nò	mə'nŏ	kènómì
	ente Sectores	TAT	nó	mé'nò	gènómè
· ·		BAJ	nó	m è'nò	- kînomû
		BAS	nwô	m è'nó	kùnùmó
				· · · ·	

ľ. K

		· · · · ·		
(3.16)	/ ŋ /	'squeeze'	'scra	tch'
	and an	nă	ŋwat	•
	LK CL	ŋǎ ɲâ	ŋwát	100 A. 100 A. 100 A.
		· · · ·	ŋwâ:	
	UK	ŋô nóù	ŋwa. ŋwâ	
	KIT	ŋáù tra éra é	ŋwa ŋwai	- - -
•	KIF	'ŋámé 'ŋámà	ŋwa ŋwá	
	KEN		ŋálè	
	NUM	ŋamə ŋ śmờ	ŋálè	
	BIT TAK	ŋámè	jù	
· ·			· · · ·	2
	BAJ	ŋámù	ŋá	·
	BAS	ŋámè	· · · ·	
(3.17)	/	'eat'	'drink'	'eye'
(2.17)	,), ,	e de la constante de la consta En la constante de la constante		
	LK	лé	лú	n ése
	СК	лê	្រជំ	n és
	UK	né	ក្រជ	n et
	KIT	né	្ជាជ	nè
	KIT	né	றம்	nès
	κεν	лé	лù	лé
	NUM	лé	лù	tàmbónyì
-	BIT	лé	றப்	ní
	ТАК	ŋíè?	nù?	émè
	BAJ	յո	្រាប៍	е'пе
	BAS	лé	лú	nì
• * * . •				

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(3.18)	/ w /	'you'	'oil'	'tortoise'
· · · · ·	LK	сw	bà' wèt	nè' wèn
	СК	ćw	bà' wàt	dè' wèn
	UK	wò	bà' wét	nè' wèn
• • • •	KIT	wò	bà' wet	dì wen
an a	KIF	wò	ba wót	di wèn
	KEN	wô	a' wí ?	ogwén
• • •	NÚM	wò	a wé	ò' wé
an a	BIT	wù	mà wí	mò' wî
	TAK	wð	mà wê	mè wè
	BAJ	wù		mè gwê
	BAS	wò	mà wê :	me gwê
			· · ·	
(3.19)	/r/	'three' 'g	ood character)'	ʻfly' `
	LK -	bé' rát	e' rŵ	rě
	СК	be' rat	εrŵ	ré
· · · · ·	UK	be' ra?	εrw	rí
	KIT	bi' râ :	e réntì	ព៍:
	KIT	bì' râ:	è rí	fwérờ
	KEN	ólé	ké lìém	lèné
	NUM	òlé	kèlò	lénè
	BIT	òlé	kilf ?	lèné
	TAK	èlé	gèlòmé	lì éné
	BAJ			léní
	BAS	òlé		kòfùnú
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PN	*m	*n	*ŋ	*ր	*w	*۲
LK	ភា	ת	ŋ	n	w	r
СК	m	n	ŋ	ព	w	r
UK	m	n	ŋ	ր / ո	W	r
КІТ	m	n	դ	'n	W	r
KIF	រា	n	ŋ	л	W.	r/L
κεν	m	n	ŋ	n	W	I.
NUM	m	n	ŋ	ր	W	L
BIT	m .	n	ŋ	n	W	L
TAT	m.	n	ŋ	ர / m	W ₁	L
ВАЈ	m	n	ŋ	ந	W	L
BAS	n	n	ŋ	jt.	W	Ĺ

The evidence for nasals as well as w is straightforward. The set with r/l has been reconstructed as *r because the sound change from r --> L is phonetically more plausible than L --> r. Also, there is a proto - Nyang *d which suggests that there was an alveolar stop in the ancestor language which developed into l through r. Hence we are insinuating that d --> r and r later became l.

TAK

Example (3.21)

- LK

(3.20)

1

KEN

Gloss

		:	
pùrí	p élè	pùrì	' push'
bé'rát	òlé	ole	' three'
erŵ	kêlò	èrí	' good'
vábòri	gèpwélì	gŵŋəliŋ	' round'

3.3. CONSONANTS IN C₂ POSITION

The consonants found in C_2 position are common in roots with the shape CVC and rarely CVCV_. The cognate set examples that follow will give evidence for the reconstruction of the following consonants in C_2 position:

3.3.1. Sto	ops p	t k	and y	
(3.22)	/ p /	'steal'	'blow'	'bone'
	LK	γὲp	fép	è'Yép
	СК	γép	fép	è'yép
	UK	γέp	fép	è'γέp
	KIT	gép	fép	è'gép
	KIF	gep	fép	è'gep
	KEN	èdzèp	fèné	kègôh
	NUM	adzĭ	finé	kegŏ
	BIT	d3ì	fínè	kègó
	TAK	èd3ò	fo?	gègŏ
	BAJ	ègé	àfunuŋ'gu	kè' ŭfó
	BAS	yó	fúnù	kùnfúð
	-			·

(3.23)	/ t /	'foot / sole'	'nine'	'house'
:	ĹK	nè' yàt	nènènámot	è'kèt
	CK	dè' dzát	nènámòt	è két
	UK	dè' dʒát	nenenamôt	è két
ананан Саланан Саланан				
	KIT	dî' dʒâ:	dinenamot	è kèt
	KIF	di' dzát	nènámô	nyúp
· · · · ·	ΚεΝ	le gâ?	onénàmŋá	kètá
	NUM	lè dzát	o' nénàmâ	kepú
	BIT	kekiá	o' nìnámà?	kepú
	ТАК	né dzánè	onênámà	gèpú
	ВАЈ	nèyà		kòpù
in an	BAS	nè ánòkò	o' nenámà	kètá
	· · · · ·			
(3.24)	/ k / ·	'tree'	'elephant' 'hole'	'knife'
		N N	N . NF	S S #-
· ·	LK	è' nòk	n sòk m' bòk	ìgàk
	CK	è' nók	n sòk m' bók	ŋgák
.*	UK	è' nók	n sòk m' bòk	ŋgák
•	KIT	è' nók	n sùk m' bók	ŋgáh
	KIF	è' nok	n sùk m' bòk	mònsô
•	KEN	kenð ?	o sùk m' bù	ŋ' gá
a Ar an an Ar	NUM	kenð ?	o'su mbú	ŋ' gá
	BIT	kenô:	m è∫ù? mbù	ŋ' gá
	ТАК	ge' nŏ	m è∫ù em'bù	ì)' gá'
	BAJ		mê∫ù mbù	ŷ' gá ?
•	BAS	ke nwó:	mèſù: mbò	ŋ' gá ?

/y/	'hunger'	'stone'	'kill'
L.K	ń sày	n táy	wây
CK	n sây	n táy	wây
UK	n sày	n táy	wáy
КІТ	n sây	n táy	gwáy
KIF	n sà	n tá	gwâ
κεν	nòsâ	ntá	gwá
NUM	òsâ:	ntá	wá
BIT	mèsá	ntá	wá
ТАК	mèsá	ntá	wá
BAJ		ntă ?	àpíènèmì
BAS		<u>htà</u>	wa
		-	

Reconstruction of p, t, k and semi-vowel y

(3.25)

(3.25)	PN	*p	*t	*k	*y
					·
	LK	p	t	k	У
an a	СК	р	t	k	У
	UK	p	t .	k	У
	KIT	р	t	k / h	У
	KIF	р	t	k	ø
	KEN	p/?	2	k(?)	Ø
	NUM	Ø	t	(?)	Ø
	BIT	Ø	(?)	(?)	ø
· · · · · · · · · · · · · · · · · · ·	TAK	(?)	σ	Ø	Ø
	BAJ	Ø	Ø	(?)	Ø
	BAS		Ø	(?)	Ø
and the second					

It is clear evidence from the cognate sets and the above table that the consonants p, t, k and y occur in C_2 position in LK, CK, UK, KIT and KIF without any problem. To be on a safe bet, in KIT, the set k / h has been reconstructed as *k because the change from a stop to a fricative of approximately the same point of articulation is much less common. For

UB C

NUM, BIT, TAK BAS and BAJ, there is no C_2 consonant apart from the glottal stop which occurs in very few words. The KEN set shows a glottal stop (?)) in all the reflexes except for *y. In the reconstruction of consonants, h and ? have proved to be a problem.

As for the glottal stop [?], it is not clear if it should be considered a phoneme. We could not find any contrasts between [?] and other voiceless stops in word final position, which is the only position where [?] occurs.

By examining Kenyang and Denya, which are closely related to Kendem, we find some historical evidence that clarifies this problem. The examples below show the relationship between word final stops in some cognate words of Kenyang, Denya, and Kendem.

(3.26) [p]	Lower Kenyang è' Báp	Kendem kebá ?	Denya gèbagèlé	Gloss ' wing'
	núop	ло ?	bî	' day'
· · · · · · · · · · · · · · · · · · ·	ŋkwòp	òkò ?	men' yamíè	' slain'
• • •	ntop	otò?	usógè	' soil'
- [1]	bà' w et	awi ?	màwê	' oil'
•	ne yat	lega ?	n edzáně	' foot'
[k]	enòk	keno ?	ge nð	' tree'
	rok	gú ?	ù	'hear'
- - - -	bekok	okwò ?	òkð	' old'

The above examples show the weakening of word final consonants in Kendem. Kenyang (LK CK UK, and KIT) has many examples of voiceless and word final stops. Kendem (KEN) has much fewer and Denya (BIT, TAK, BAJ, BAS) has none at all. Therefore we can say that Kendem appears to be at the transition point where the contrast between word final stops is being neutralized in many words by the coalescence of those contrasts to [?]. Although some examples of word final p, t, k still exist, in Denya, this consonant weakening in word final position has been completed such that there are no word final consonants.

The [h] segment poses problems similar to those encountered for [?]. Our data yields only a few examples of [h]. Just like [?], [h] is historically derived from stops at least in word final position. There appears to be some variation between speakers for [h], [?], and loss of final consonant.

Example

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(3.27) Kenyang Kendem Denya Gloss speaker I Speaker II á m èk amé àmeh àmè ' eyes' ' knife' ngak ngá ŋgah ŋgá ' bone' egép kegoh gegŏ ' elephant' nsòk ósùk osù ? mèsù ŋkok okwô o' kwó ? ' chicken' ' feather' eysk jôh dzágè

3.3.	2.	N

(3.28)

	tin an the
LK	a wô: nem
СK	a wón ém
UK	a wonem
КІТ	a bonem
KIF	a bonem
KEN	e nóm
NUM	e wônò
BIT	ewôńò
TAK	εbwányè
BAJ	ewonyè
BAS	wònyé

For more examples of C_2 nasal / m / see C_4 nasal / n /

(3.29)	/ n /	'clothes'	'name'	'eight'
	· · · ·			
	LK	ndèn	nén	menèn
	СК	ndèn	nén	běnèn
	UK	ndèn	nén	benèn
	KIT	ndèn	nén	bí inen
···	KIF	ndèn	nén	mě:nen
• • .	KEN	ndèn	лєп	onen
	NUM	ndě	né	onê:
· · · · ·	BIT	ndè:	រា	onî
	ΤΑΚ	ndê	mábò	onê
· · · ·	BAJ	ndě ?	maβó	
· · ·	BAS	ndé	màvô	onê

(3.30)	/ ŋ /	'spear'	'hip'	'love'
	LK	nekòŋ	sèsòŋ	kòŋ
	СК	nekòŋ	sesoŋ	kòŋ
· ·	UK	dekõŋ	dèsòŋ	kóŋ
i T	КІТ	dìkóŋ	sìsóŋ	kóŋ
	KIF	dìkoŋ	sisòŋ	kóŋ
	KEN	lé'koŋ	esóŋ	kòŋ
	NUM	lèkó	esô:	k5
	BIT	lekò	êsð	kò
	ТАК	nekò	esò	gidzĭ:
	BAJ	nekwô	fisô	
	BAS	nekwô:	fù∫ùò	lómè
(3.31)	PN	*m	*n	*ŋ
	LK	m	n	ŋ
	СК	m	n	ŋ
	UK	m	n	ŋ
	KIT	m	n	ŋ
	KIF	m	n	ŋ
14	κεν	m	n	ŋ
· · ·	NUM	Ø	Ø	Ø
	BIT	ø	Ø	Ø
—	ТАК	Ø	ø	ø
	BAJ	Ø	Ø	ø
	BAS	Ø	Ø	Ø

The evidence for nasals is absolutely straightforward. The table also confirms the fact that nasals (final consonants) have been lost in NUM, BIT, TAK BAJ, and BAS (Denya dialects). The following examples show the loss of word final nasals in Denya.

100

(3.32)	Kenyang	Kendem	Denya	Gloss
[m]	nèm	nóm	nó	' bite'
	a mém	mém	mò	' inside'
	ansem	ósèm	mesò	' behind'
[n]	nù én	nôn	nùé	' nose'
· .	nden	ndèn	ndê	' clothes'
. •	kwen	kwen	kwé	' fall'
[1]	seson	esoŋ	ESÒ	' hip'
	mbaŋ	mbiaŋ	embíà	' horn'
· · ·	ŋgaŋ	oráŋ	megá	' salt'

3.4. CONSONANTS IN C2 NON-FINAL POSITION

In some languages, C_2 is followed by a vowel. That is to say the root has the structure CVCV. The problem of reconstruction of sounds in non-final position C_2 position is that such roots are relatively few due to the loss of earlier final vowel. Some consonants occur in this position due to reduplication of the root. However, despite the fact that C_2 non-final consonants are few in number, they are not very different from the consonants of C_2 root final. The phonemes posited as C_2 non-final are on the basis of the data we have.

3.5. PROTO-NYANG CONSONANT PHONEMES

(3.34)	Labial	Alveolar	Palatal	Velar	Lab Vel
Stops:	*р	*t	*c	*k	*kp
	*b	*d	*j	*g	*gb
Fricatives:	*f	*s		•	
Nasals:	*m	*n	*ր	*ŋ	
Trill:	· · · ·	*r			
Semi. Vowel		*у		*₩	• •

The consonants reconstructed for PN can be rearranged as follows:

The table above reveals that there are 19 consonant phonemes for PN. The reconstructed consonants show five points of articulation, viz: labial, alveolar, palatal, velar, and labio-velar. There are equally five manners of articulation classified as stops (Vd, VL), fricatives, nasals, trill and semi-vowels. There are five voiceless (VL) as well as five voiced (Vd) stops, thus making the sound system asymmetrical. There are two voiceless fricatives, four nasals, one trill and two semi vowels. If we take into consideration the different positions of consonants in the root, we discover that there are several restrictions in the distribution of these reconstructed consonants. The sound distribution below shows the different positions of the consonant in roots. Distribution of Consonant phonemes in Roots

*c

*j

(3.35) C₁

*p

*b

-14 S

C₁ Position

*t

*d

*f *s *n *n *ŋ *m *w *г non – final C_2 Root final C_2 *k *k *t *p *ŋ *m *m *n * ŋ *n *у *г

*k

*g

*kp

*gb

The largest range of consonants is found to occur root initially while the smallest is found in C_2 non-final position. The limited number of consonants in C_2 root final position is due to the fact that many consonants are being lost in the present day dialects. In some dialects the final consonant in monosyllabic roots are softened and become disyllabic while in others the vowels become lengthened or diphthongs to compensate for the final consonant loss.

All continuants *f *s *r *w occur in C_1 position while none is found root finally. The nasals are found everywhere except the palatal nasal n which occurs only in C_1 . The voicing distinction for stops in C_1 position is fully retained. The semi-vowel *w only occurs root initially; on the other hand, the semi-vowel *y only occurs root finally. The phonemes kp and gb have not been reconstructed, but have been included in the reconstructed phonemes in these tables because our data had just two roots with such sounds. However, we found reliable documents (Tyhurst 1984: 24) wich show, proof of these sounds as phonemes in the Kenyang and Depya languages (Kendem being an exception). It is on the basis of this that we included them in the reconstructed sounds. Kp and gb occur in C_1 position only.

(3.3	umples 36) Ken	yang	Den	iya
•	ekpérè	' calabash'	má: kpò	' heads'
÷	ŋkpè	' ringworm'	mě: kpò	' heads'
	ŋm – gbè	' Ekpe'	magbô	'cry'
	Egbe	' a proper name'	négbò	' death'

3.6. VOWEL RECONSTRUCTIONS

There are both short and long vowels in the Nyang languages, but this study will dwell mostly on the reconstruction of short vowels. The reason is that the long vowels are scarcely seen in the data. When a given cognate set happens to have a long vowel, it may be just one in the set, hence, making reconstruction of long vowels difficult.

The short vowels reconstructed for Proto-Nyang are mainly found in roots of type V_1 position, with the structure CVCV, CVC, and CV. It should be noted that V_2 of CVCV roots have in many cases undergone a variety of changes such as assimilation, lowering, raising, thus making the reconstruction of their quality impossible. We have not also taken the vowels of affixes into consideration because affixes present considerable difficulties.

3.6.1. FRONT VOWELS i, e, ε and a

The following table will provide evidence for the reconstruction of

/ i / in the Nyang languages

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No. of the

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(3.37)	'he	/ she'	'what'	' four'	'excrement'
	LK	yi	yî	mé' nwì	kèbí
	CK	yĭ .	yî	mé' nwí	kebí
· · · · ·	UK	dzí	dzì	bin' wî	kebi
	KIT	ε'yì	dʒì	bì nywì	kìbí
· · ·	KIF	à'yĭ	dzì	bì' nî	kìbì
	ΚεΝ	-ti	ndí	ónî	lè' bî
	NUM	dzì	ndì	òní	
	BIT	dzi	ndé	oní	lèbí
	TAK	dzì	ndé	e'nî	dìbì
	BAJ	yî	ndí	· · · · · · · · · · · · · · · · · · ·	
	BAS	yì	ndí	ù'ní	*********
· ·					

Evidence for / e /

(3.38)	'hill'	'year'	'star'	'eat'				
LK	ñ' dzè	mí'é	nèm' bè	nyé				
CK –	n dʒê :	mi'é	nèm' bê	nyê				
UK	n d3ê	mì'è	nem bé	nyé				
KIT	n dzê	'míè	dìm beì :	nyé				
KIF	n dzè	míè	dìm bê	nyé				

KEN	o' kwé	<i>ì</i> yè	om' bî	nyé
NUM	o' kwè	ŋmé	om bì	nye
BIT	mɛ'kwé	ŋmé	mèm bé	nyê
ТАК	mě kwé	ŋmé	mem' bé	nyí è ?
BAJ	mè' kwè	ŋm' ŋmé	mem' bì ?	nyí
BAS		ŋmé	m' bím àw è	nyé

Evidence for / a /

0

(3.39)	' five'	' sing'	' count'	' scratch'
LK	bé' tày	kwáy	pày	ŋwát ^h
СК	be' táy	kwây	pây	ŋwat
UK	bè' táy	kwáy	pây	ŋwâ :
KIT	bì táy	kway	pây	ŋwâ
KIF	bì ta	kwó	pà	ŋwát
K EN	ói tà	kwáŋ	pá	ŋwá
NUM	o tá	kwá	pá	ŋálè
BIT	o tà	kwà	pà	ŋálè
ТАК	ε' ta	kwá	pa	ſù
BAJ			· · · · · · · · · · · · · · · · · · ·	ŋá
BAS	òtáy	kwá	pà	

Given the evidence from the above table, the phonemes /i/e/and/a/can be reconstructed as follows.

57

(3.40)	PN	*i	*e	*a	*8
	Lk	i	e	a	8
	СК	i	е	а	ε
·	UK	i	e	a /o/ɔ	ε
	KIT	i	e /ei	a	ε
	KIF	i	e /o	a /o	E
	κεν	(i	e /i /o	a	ε
	NUM	i	e /i /o	a /ɔ	ɛ/e /ɔ / u
	BIT	i /e	e /o	a /ɔ	ε /i /ɔ /u /o
te en la se	ТАК	i/e	e /i /o	а	ε/e /ɔ / u /o
	BAJ	1	e /i /o	a /o	ɛ/e/ɔ
	BAS	i	e /o	a /ɔ	

3.6.2.

BACK VOWELS

· u, o, o

The high back vowel / u / can be seen in the following cognates

(3.41)	' drink'	' ear'	' sky'	' person'
LK	nyú	à' tú	nèbù	ການ
СК	nyû	à' tú	dèbû	mù
UK	nyú	à' tú	dèbú	kwáŋwà
KIT	nyú	à' tú	dìbû	mém
KIF	nyù	à' tù	dibù	məm
KEN	лù	è' tù	lèbú	ពាជ័
NUM	nyù	è' tù	mfáy nèbú	míè mù
BIT	յոն	è' tù	lebú	mu
TAK	nù?	é' tú	ìfán èbǔ	mu:
BAJ	nyú	è' tù	ntá nou	mu
BAS	nyú	è' tù		mìếmù:

The phoneme / o / can be found in the following cognates.

3.42)	' hip'	' soil'	' spear'
· · · ·			• •
Lk	se'sòŋ	ntòp	ne kòŋ
СК	se sòŋ	ntóp	ne koŋ
UK	de sòŋ	ntóp	de koŋ
KIT	sì sóŋ	nto:	di kóŋ
KIF	s' sòŋ	nto: p	di kòŋ
K EN	ε' soŋ	òtó ?	le koŋ
NUM	ε sô:	otó ?	le kó
BIT	ε sờ	metó	le kò
ТАК	εsò	usógè	ne kò
BAJ	fì sô	metava?	ne kô
BAS	fuʃùò	mètá	ne kwô

The phoneme / 5 /

• . (3.43)	'you'	'vomit'	'take'
I	L K	wð	gwó	sót
	СK	ćw	gwá	bwóp
	UK	wò	gwờ	sâ
. 1	KIT	ćw	gwð	bùś
÷	KIF	wð	gwò	sôt
1	KEN	wô	gwô	Bŏ
· .	NUM	wò	gwð	bó
	BIT	wù	ŵĴ	sè
	ТАК	wò	wô	ćd
	BAJ	wù	wô	vó -
1	BAS	wò	gwô	νó

The above cognate set examples allow us to reconstruct the back vowels as follows.

PN	*u	*0	*o
LK	u	0	3/6
СК	<u>u</u>	0	o /ɛ/a/o
UK	u	o /u	o /ɛ/a/o
KIT	u /e	o /u	3/c
KIF	u /ə	o /u	o /ɛ/o
KEN	u /i	o /u	0
NUM	u /i	o /u	o/c
BIT	u /i	o /ɔ/u	ο /ε/u
TAK	u	o /ɔ/u	o/o
BAJ	u	o /a/u	∋ /o/u
BAS	u	o /a/u	o/c

Amongst the back vowels, the proto *o presents numerous reflexes in almost all the dialects. The o sound is not attested in KEN at all. The PN *O is also realized as u in some cognates.

3.6.3. PN Vowel Phonemes

SALES.

(3.44)

A seven vowel system has been reconstructed for the PN vowels.

(3.45) *i *u *e *o

*ε

The vowel system for PN is made up of three front vowels, three back vowels, and one central low vowel. This gives a complete asymmetrical system for the PN vowels.

*0

*a

CHAPTER IV

SOUND CHANGES AND REFLEXES OF PROTO – NYANG

4.1 INTRODUCTION

The aim of this chapter is to account for all the reconstructed sounds, the sound changes and reflexes. It is true that a good number of the sounds have not changed, i.e. the proto-sounds are the same like the reflexes in some cases. Nevertheless, between PN and the present day languages, a considerable number of changes have taken place both in consonants and in vowels. Some of the sound changes have taken place in a specific phonetic context. Others cannot be attributed to context and so such sounds have to be considered as changes which have taken place independently of the context. Note that some changes are shared by two or more present day dialects and this may therefore indicate the extent to which they are related genetically.

In order to account for these changes we will use a set of distinctive features to characterize the PN sounds and the changes that must have occurred. The reconstructed sounds are placed at the top of the chart with a starred symbol. The sound changes which we are going to discuss are already implicit in the charts of reconstructed sounds in chapter three.

4.2. Distinctive feature matrix for PN consonants

62

Distinctive feature matrix for Obstruent.

Ć	40	1)
•	-	_	

<u> </u>	*p	*b	*t	*d	*k	*g	*c	* j	*kp	*gb	* f	*s
Voice:	-	+	-	+		+	-	+		 +	-	
Continuant:	-	-	-	-	-	-	-	-	-	-	+	+
Sonorant:	-	-	-	-	-	-	-	-	-	-	-	-
Strident:	-		-	-	-	-	+	+	-		+	+
Anterior:	+	+	+	+	-	-	+	+	[-	+	+
Labial:	+	+	+	-		-	-	-	+	+	+	-
Coronal:	-	-	-	+	-	-	+	-	-	-	-	+ .
High:	-		-	-	+	+	+	+	+	+	-	-
Back:	-		-	 -	+	+	-	-	+	+	-	-
Del Rel:	-		-	-		-	+	+	· •	-	-	-

Distinctive feature matrix for sonorants

(402)

	*m	*n	*n	*ŋ	*r	*y	*w
Consonant:	+	+	+	+	+	_	-
Continuant :		-	-	-	+	+	+
Labial :	+	-	-		<u> </u>	+	+
Nasal:	+	+	+	+	-	-	-
Anterior :	+	+	-	-	+	+	-
Coronal:	-	+	-	-	+	+	
High:	-	-	+	+	-	+	+
Back:	-	-	-	+	-	-	÷

4.3. CONSONANT CHANGES BETWEEN PN AND PRESENT DAY LANGUAGES

In the discussion of the sound changes, frequent reference will be made to morpheme boundaries, both morpheme initial and morpheme final. The classification of consonants as C_1 and C_2 is based on their position in roots, with C_1 being equivalent to C after morpheme initial boundary (/ #-) and C_2 in the majority cases being equivalent to C before morpheme final boundary (/ - #). Most of these rules are morphologically conditioned i.e they apply to particular words or dialects. And so, it seems easiest to state some of the phonological process with reference to morpheme structure rather than in purely phonological terms, i.e. morphological and phonological contexts coincide. Each sound change discussed below will be followed by a few examples and a rule.

4.3.1. Sound Changes involving stops

--- > v d --- > y

b

In C₁ position, voiceless stops *p, *t, *k have not changed. Their voiced counterparts have changed in some languages

g ---- >w

' give birth'	'what'	' hear'
LK: bé	LK: yî	LK: rók
KEN: bien	CK: yî	CK: rok
ΤΑΚ: bíè	UK: d3ì	UK: wok
BAJ: víè	KIT: d3i	KIT. wuk
BAS: víè	KEN : ndi	KEN: gú?
	TAK : n-dé	NUM: gù
		BIT: gu

*b --- > v / #-*d --- > y / #-*g --- > w / #-

In terms of features, these changes can be captured by the following

rule

a)

C [-son] C -cont ---> [+cont] /#-[+vd]

A voiced stop becomes a continuant at root initial position.

In C₂ position, the following changes have occurred in some languages

k --- > h ' knife' LK: ŋgàk CK: ŋgák UK: ŋgàk KIT: ŋgàh BAJ: ŋgá ? BAS: ŋgá ?

*k ---- > h / - #

b)

C

[-cont] ---> [+cont] / -#

A stop becomes a continuant at word final position.

Still in C_2 position, stops become the glottalised stop ?. This phenomenon is robust in the Kendem language. The motivation behind this as well as the examples is found in section 3.3 (example set 3.26). There we find

*p --->
$$?/ - #$$

*t ---> $?/ - #$
*k ---> $?/ - #$
C C
[-son] ---> [+constr]/-#
-cont
-cont

A plosive consonant that is non-constrictive becomes constrictive at word final position.

Another change observed in C_2 has to do with the complete deletion of stops. This stands as a major rule as far as the Denya language and dialects are concerned.

i.e *p *t *k --- > $\sigma/-\#$

Example

c)

р	> ø	t > ø	k> ø
	'bone'	' nine'	' elephant'
LK:	ε- γερ	LK: ne-nenamot	KL: n-sòk
CK:	ε-γερ	CK: di-nenamot	UK: n-sók
KEN:	kε-gô ^h	KIF: nénámô	KEN: o-suk
TAK:	ge-go	KEN: o-nenamyá	NUM: o-su
	•	ТАК: о-пепата	BlT: mε ∫ù
		BAS: o-nenáma	TAK: mε-∫ù
			BAL me-fir

*p ---- > $\sigma / - \#$ *t ---- > $\sigma / - \#$ *k ---- > $\sigma / - \#$

The above changes can be summarized as

d)

C [-son] -cont --- > o / - # [-vd]

A voiceless stop becomes deleted at root final

4.3.2. Changes involving Fricatives

With fricatives, the dental alveolar fricative *s has become the palato – alveolar \int in C₁ position

*s ---> $\int / \#$ - (see the examples for elephant above)

Put differently,

e)

С		C	
+ ant	· · ·	[-ant]	
-High	>	L + High	/ #-

A dental alveolar consonant becomes a palato - alveolar consonant at root initial position.

4.3.3. Changes involving Nasals

p

In C₁ position not much has changed just like their oral counterparts.

Example

10.00

1 S. 1 M

Service:

1000

ALC: NO

Ų

19 (A)

Line and

' Mouth'

---- > n

LK: ற்-றù
UK: றú
KIF: றu
KEN: o-nem
BIT: mò-nú
TAK : mɛ-nô
BAJ: mɛ-nɛ
BAS: mɛ-no

*n --- > n / V - V

f)

 \boldsymbol{C}

[+nas]

 $\lfloor -ant \rfloor --- > [+ant] / [+syllab] - [+syllab]$

C

A nasal consonant that is non-anterior becomes anterior at intervocallic position.

In C_2 position, nasals are deleted in some languages (Denya especially deletes all consonants in C_2). Clear examples of nasal deletion in C_2 are found in section 3.3.2

*m, *n, *ŋ ---- $\sigma / - #$

g) a constant **C**arata

5

200

A CANADA

1000

A nasal sound becomes deleted at root final position.

4.3.4. Changes involving Trills

The dental alveolar trill has become a lateral sound in some languages Example $r \rightarrow - > 1$

ŝ.

fly'
LK: rč
CK: rć
UK: ri
KEN: lɛné
NUM: lɛ́nè
TAK: lìéne
BAJ: lɛne

*r --- > 1/#-

C

h)

[-lat] --- > [+lat]/#-

 \mathbf{C}

A trill becomes a lateral at root initial position.

4.3.5. Changes involving Affricates and Semi-Vowels

Affricates occur only in C_1 position and the following changes have been noted

y pull?

--->

J

i)

' foot / sole'

LK:	yà	ne - yàt
CK:	yă	de - jat
UK:	jò	de - jat
ΤΛΚ:	ja	ne - jánè
KIF:	jam	di - jat
KEN:	jam	le - ga?

---- > y / #-*

C $-\mathbf{C}$ [-cons] [+cons] L +syll ⊥ _ syll / #---- >

A consonant becomes a semi - consonant at root initial position

---- > g / #-- (as in foot / sole) *j

C \mathbf{C} j) [-cor] [+cor]---> +11igh ----> / # -L+bk 」

An affricative becomes a velar stop at root initial position.

Lastly, the semi-vowel is deleted at root final position. This is still a major rule as far as the Kendem and Denya languages are concerned.

Ø

	hunger'	' stone'	' kill'
Lk:	n-sày	n – táy	wáy
uk:	n-say	n – táy	wáy
ck:	n-sây	n – tay	way
ken:	no - sa	n- tá	gwa
Num:	o - sâ	n- tá	wa
Bit:	me - sá	n- ta	wa
Tak:	mε – sá	n- ta	wa

*y ---> ø/-#

k)

C [-cons] -syll+hi

The semi-vowel / y / becomes deleted at root final position.

4.4.

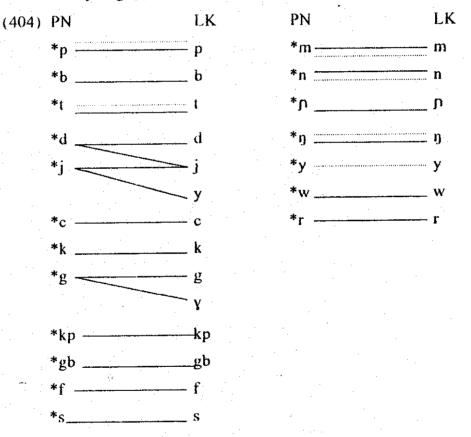
CONSONANT SYSTEM AS A RESULT OF SOUND CHANGES

In the sections that follow, the PN phonemes and sound changes in the different languages will be presented. The PN consonant system chart (3.35) on chapter three has been repeated here as (403) for convenience. The chart with lines shows a comparison between PN and the present day languages. The thick lines indicate changes in root initial position while the broken lines indicate changes at root final position. To avoid complications, consonants in C_2 non-final position have been left out in this section.

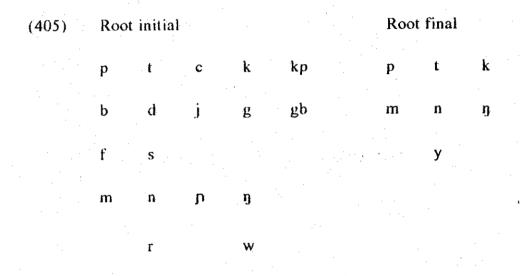
(403)

3	_			19 - C C C C C C C C		
	С	*k	*kp	*p	*t	*k
1 1	۰j	*g	*gb	*m	*n	*դ
3			• •		*у	
1	ָר י	*ŋ		· . ·		
•		*w		•		
	1					

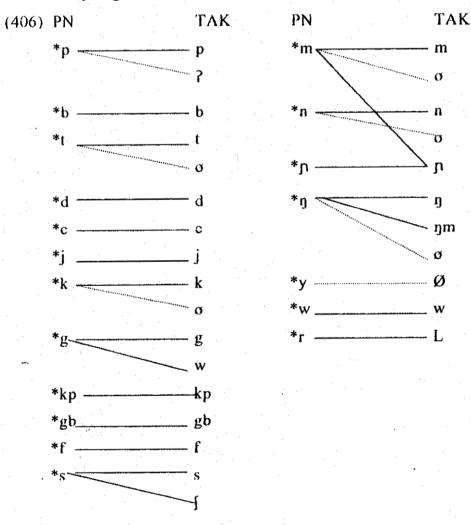
4.4.1. Proto-Nyang and Lower Kenyang



The preceding comparative chart shows that PN *d has split into / d / and / j / while *j has split into / j / and / y /. *g has equally split into / g / and / y/. The comparative chart for PN and LK leaves us with the following system for Root initial and Root final consonants for LK.



4.4.2. Proto-Nyang and Takamanda



The comparative table for the TAK and PN consonants reveals that *r has become / 1 /; *g is also realized as / w /, and *g and gm.

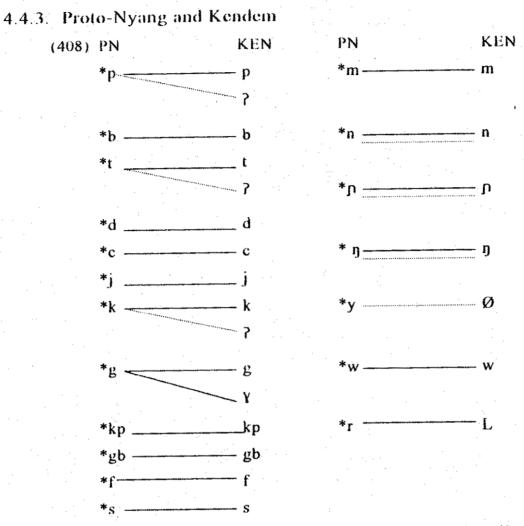
Some consonants have been lost in C_2 . There is no proto – stop that has \emptyset as the sole reflex. The σ here is used to indicate the fact that these consonants become σ in C_2 final position in TAK. Also the status of a glottal stop as a phoneme in some languages is not well established, but it also has to be recognized that it is unstable in the sense that it is easily deleted in C_2 . As indicated in chapter three, it is a mark of transition for stops in C_2 position.

Root final

?

Consonant system for Takamanda

(407)		· · · ·			
·	Roo	t initia			
.	p	. t	С	k	kp
	b	d	j	g	gb
	f	S			
e de la composition a composition de la co	m	n	Л		្យាញ
	w		у. У		•

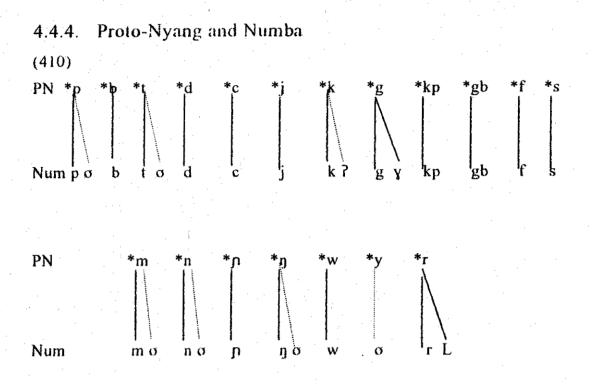


The above chart indicates that voiceless stops p + t + k have become ?. The Proto – sound g is realized as g / f and as g. The proto phoneme r has become f / f, while q is deleted in C₂ position. These changes leave us with the following sounds for Kendem (409) Root initially Root finally

ptckkp bdjggb fs

m n J

Y mnŋ ?



There is equally a difference between PN and NUM sounds as we can observe. r is realized both as /r/ and /1/. *g as /g/ and $/\gamma/$. In root final position, voiceless stops *p, *t, and *k

become either deleted or realized as / ? / like the case for *k. Nasals *m, *n, and *ŋ also become deleted in C₂ root finally. Hence NUM consonant system resulting from sound changes can be tabulated in the following manner

Root final (411) Root initial k kp t c p ? d b g gb i f s m n n ŋ Ŵ 1

4.5 Vowel changes between PN and Present day

Languages.

This section seeks to examine the changes that have occurred in vowels. Some of the changes are motivated by the environment. In many other changes, no influence by the environment can be detected. In other words they have occurred randomly and so have been ignored while the ones that are clearly attested will be presented. It is important to note that in LK, CK, and UK few changes have taken place unlike the other languages.

In the chart below, the vowels of PN are presented with their distinctive feature matrix.

4.5.1. DISTINCTIVE FEATURE MATRIX FOR PN VOWELS

*[*e	*ɛ	*u	*0	c*	*a
+	-	-	+		-	-
-		-	-		-	+
-	-	-	+	+	+	+
-	-	-	+	+	+	- '
+	+	-	+	+	-	-
	* + - - +	* *e + - + +	*! *e *e + - - - - - - - - - - - + + -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

(4.12)

4.5.2. Changes involving Front Vowels

All through the data, the front vowel /i / has proved to be constant in almost all the languages. There is however the reflex /e / which has been presented. But we do not find any motivation for it.

	' what'
LK	yî
СК	yî
UK	dzi
KEN	ndí
BIT	ndé
BIT	ndé
ТАК	ndé
BAJ	ndí

ė

派品

1. No.

1.43

4

Sugar,

 $\sum_{i=1}^{n} \sum_{j=1}^{n-1} (i - 1)^{i}$

2011

3. S. 18

*i ---> e/-#

V V [+hi] L-bk] ----> [-hi]/-#

A front high vowel becomes non-high at root final position

ε

ε --- >

Э

L)

---- > o

· .	' bite'	' husband'
LK	ném	ném
CK	ném	nèm
KEN	nom	ném
NUM	nò	ò- nò
TAK	nó	mé - nò
BAJ	nó	me- nò
BAS	nwô	me – nó
		· · ·

m)

V [-bk] -Hi --->[+bk]/-# [-Lo]

A front mid vowel becomes a back vowel at root final position

*e ----> o/-#

n)

V V [-bk] [-ART] ---> [+ATR] /-#

A front vowel that is tense becomes a back lax vowel at word final position.

€ >	e
	' goat'
$ = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \left(\frac{1}{2} - $	
LK:	mén
CK:	mén
KEN:	mén
BIT:	ŋứcè
TAK:	ỳm-ŋmè
BAJ:	ŋ̀m−ŋmè
BAS:	mà-mwé

*ε ---> e/-#

o)

A front mid vowel that is lax becomes tense at root final position

--- > i ' Star'

e

LK:	nɛm – bè
CK:	nem – bê
KIT	dim béì
KEN:	om bî
TAK:	mem – bè
NUM:	om – bì
BAJ:	me – bì ?

*e --- > i / -#

p) V [-Hi] - -Lo ---> [+Hi] /-# [-BK]

The front mid vowel becomes high at word final position.

1	ε	غد عد بت	>	u	•

	· .
LK:	à – mém
UK:	a- mèm
KEN:	mém
NUM:	mù
BIT:	mu
TAK:	mo
BAJ:	imo
	1

' inside'

v

q)-

[-rd] -Hi --->[+rd]/-# ↓-Lo] ↓+Hi]

A mid unround vowel becomes a high round at word final position. Still from the cognate set examples for ' inside',

R)

$$\begin{bmatrix} -rd \\ -ATR \end{bmatrix} = --- > \begin{bmatrix} +rd \\ +ATR \end{bmatrix} / - #$$

An unround vowel that is lax becomes round and tense at root final position.

One major observation is that the front mid vowel $/ \epsilon$ / is very prominent. This vowel becomes $/ \epsilon / 2 / u / 0 / at$ word final position. The motivation for it becoming either of the vowels is not known. Hence, we formulate a major rule for this change as

*
$$\epsilon = --- > \alpha V / - #$$

1

18 - 18 A

の時

1.64

Contraction of the

1. N. N.

×2.00

A statement

[-Hi] V -Low ---> [α] /-# [-BK]

V

s)

A front mid vowel becomes any vowel at word final position.

4.5.3. Changes involving Back Vowels

' die'

A few back vowels are realized differently in some dialects Example u --- > i

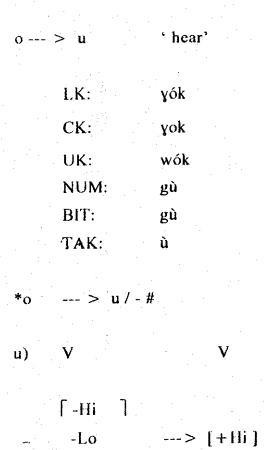
LK:	gú
CK:	gû
KIF:	gwu
KEN:	gi
NUM:	gí
BAJ:	gbu
TAK:	négbò

*u --- > i / - # V V [+Hi] [+BK] --- > [-BK] / - #

1

t)

A high back vowel becomes front at word final position.



L + bk

A mid back vowel becomes high at word final position

/-#

o > o	' Love'
LK	kòŋ
СК	kòŋ
KEN	koŋ
NUM	kó
BIT	kó

*o --- > o / - #

V)

12000

a sur

1. N. C.

6 ST 12 J

A.W.T.Y.

1000

[+ATR] --- > [-ATR] /- #

A tense vowel becomes lax at word final position.

The Proto PN *5 has several surface realizations in some cognates. What triggers the changes is not easy to determine.

Example: 'come' LK. twâ UK. two KIT. tò NUM. twò TAK. twô BAJ. tó BAS. twò

In the above cognate set $\mathfrak{d} - \mathfrak{d} > \mathfrak{a}$, \mathfrak{d} and even \mathfrak{u} in others.

4.5.4. The Low Back Vowel / a /

The low back vowel has equally proven to be resistant to change just like the front high vowel / i /. There are few instances in the data where this sound has become something else

Example: a --- > ɔ ' sing' LK. kwáy CK. kwây KIF. kwó KEN. kwáŋ TAK. kwá

*a ---> ɔ/-#

w)

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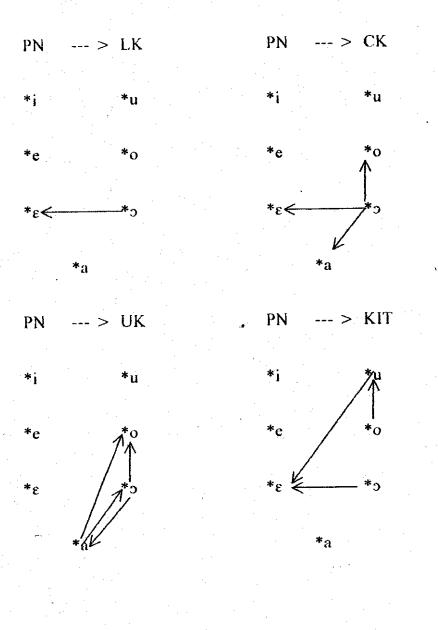
> V V [+Lo] --- > [-Hi] -Lo / -# L+rd]

A low vowel becomes a mid round vowel at word final position.

4.6. Vowel System as a result of Vowel Changes.

Prior to this, we illustrated the various changes that have taken place in relation to the individual proto-phoneme through a series of rules. Attention is now focused on how these changes modified the original vowel system. There are differences between the languages in relation to how they have been affected by the changes. Some of the vowel changes resulted in new phonemes; e.g., Kendem has an additional $l \circ l$.

On the sketches below, the PN vowels are given, then the arrows pointing the different proto-phonemes are indicating the changes that occurred. Note that it is what is obtained following the rules.



 $PN \longrightarrow KIF$

PN --- >KEN

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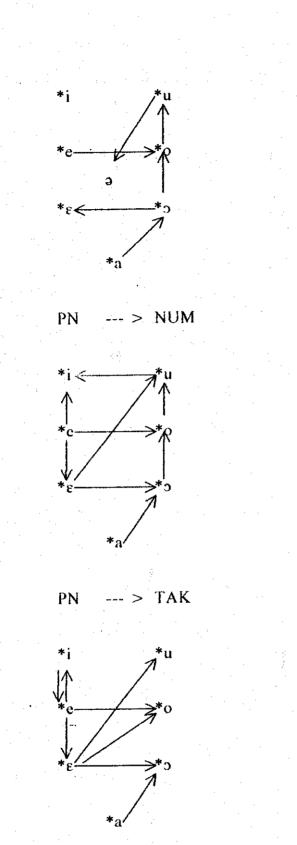
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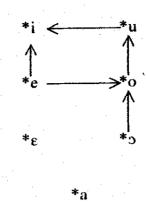


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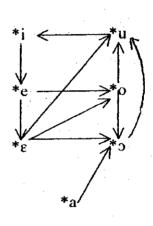
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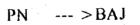
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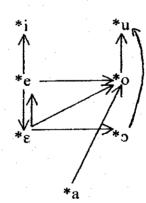
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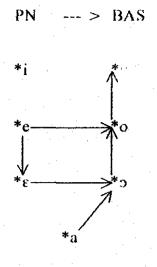
PN --- > BIT







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At this level, the illustration of sound changes from the sketches speak for themselves. UK, CK, and especially LK have retained the original vowel system virtually unchanged, while KIT and KEN have undergone a few vowel changes. KIF, NUM, BIT, TAK, BAJ, and BAS have registered a considerable number of changes. The front high vowel / i / and the back low vowel / a / have proved to be resistant to change.

CHAPTER V

RECONSTRUCTION OF NOUN CLASS AND CONCORD SYSTEM

5.0. INTRODUCTION

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Some aspects raise issues for the reconstruction of morpheme initial consonant of the languages under consideration. While it is difficult to know the original shape of some prefixes due to some irregularities, at the same time reconstruction for others is virtually impossible due to what appears to be analogical development and irregular sound changes. In chapter two, the noun classes of all the languages and dialects under study were presented as a sort of introduction to what has to be discussed in the present chapter. At the moment we will characterize the system and an attempt will be made in reconstructing the noun class and concord prefixes.

5.1. THE NOUN CLASSES

A class is defined by:

a) The set of concord prefixes required by the noun

b) The form of the noun prefix, and

c) The association of one class with another as singular/plural pair (Kadima 1969:83, Hedinger 1980.2).

Put differently, a class is characterized by a certain noun prefix which in turn

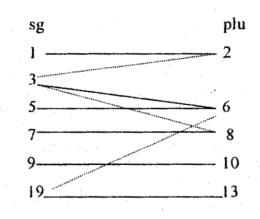
requires the appropriate 'concord' prefixes on such word classes as the verb, numeral, demonstrative, possessive, relative pronoun, etc. (Hedinger 1984).

Consider the following examples in the Takamanda dialect

(1)	<u></u> m - f	wà		à - kwé	' The chief has fallen'
	.]-0	chief		3s - fall	
(2)	a- fy	wà		á- kwé	' The chiefs have fallen'
	2 cl	hief		3pl fall	
(3)	me	Ŋ-	kwé		' I have fallen'
	1	lsg	fall		

Identification of noun class in any given language as class 1, 2, 3... etc. is based on whether the class and concord prefixes are cognate with the P.B. reconstructions. The pairs which can be reconstructed are: 1-2, 3-4, 5-6, 7-8, 9-10, 11-10, 12-13, 14-6, 15-6, probably also 19-13. Mecussen (1969). For the Nyang languages, this can be schematized as follows:

Noun class pairings in the Nyang languages



The above schema shows singular and plural noun class pairings in the Nyang languages. The dotted lines show that there are some nouns which pair up in that manner. In addition to the above classes, there is the class 6a which is the single class for liquids and mass nouns.

5.2. THE CONCORDS

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A more precise way of determining the class number of a given prefix is by the use of the concordial affixes (Mutaka and Tamaji 1994). In the languages under study, many elements can be used to illustrate the distribution of concordial morphemes such as the noun prefix, the possessive pronoun, the numerals, the adjectival prefixes, the object and subject, the relative pronouns, the determiners, associative markers and pronouns, the determiners, associative markers and tones. If one may make a general statement about the above elements, it would be that they are all governed by the noun. What is common to all the governed elements is the fact that a particular stem occurs with a particular prefix from every class the choice of which is determined by the governing noun. The concords in these languages should be taken cumulatively, i.e. any difference in any one of the concords constitutes a class difference.

In this study, we will not consider all the concord elements partly due to insufficient data. The first five of the elements mentioned above will be used in attempting to reconstruct the noun class and concord affixes. A brief discussion is given below about the concordial affixes in question

5.2.1. The Noun Prefixes

The noun prefixes are generally either the typical Bantu noun prefix shape CV or V, or a hormoganic nasal N-. The hormoganic nasal assimilates to the relevant features of the following consonant as stated in (2) $N \rightarrow \begin{bmatrix} \alpha \operatorname{cor} \\ \alpha \operatorname{ant} \end{bmatrix} / - \begin{bmatrix} \alpha \operatorname{cor} \\ \alpha \operatorname{ant} \end{bmatrix}$

A nasal adopts the qualities of place of articulation of the consonant that follows.

(3) Examples from Lower Kenyang
 N - fo [m - fo] cl 1

N - fo[m - fo]cl l' chief'N - bà ŋ[m - bàŋ]cl 3' horn'N - gbar[n - gbar]cl 9' belt'

5.2.2. Numerals

Numerals have the shape V except for classes 5, 2, 8, 19 and 13 where some languages, especially Denya, show CV. The numeral prefixes vary according to the noun classes; i.e. numeral 'one' has a different concord prefix from 'two', 'three' and so on.

Examples

bà sàm bá - rát (cl 3) 'three slaves'	(4)	n - sòkò	à - mòt	(cl 9)	' one elephant'
		n - sòkò	é - páì	(cl 10)	' two elephants'
bè - bàb bé - táì (cl 8) ' five feathers'		bà sàm	bá - rát	(cl.3).* a	' three slaves'
		bè - bàb	bé - tái	(c) 8)	' five feathers'
ba - táb á - nwî (cl 6) ' four branches	•	ba - táb	á - nwî	(cl 6)	' four branches'

5.2.3. Adjectival concord

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Most often the adjectival concord is a mere copy of the noun prefix in the Nyang languages. We will give an example of what can be translated as ' a tall tree' in some of the languages.

(5)	LK:	$\epsilon - n\delta k$	e - sáp
•	KEN:	kε - nò ?	ke - sá
	TAK:	ge - nŏ	ge - tìé

5.2.4. The Object Pronoun

The Object Pronoun has the shape CV, with the V segment being consistently a back vowel or the front high vowel [i] for Denya and its dialects.

Examples (6)

LK: Tambi yì a - nú mànèp 'Tambi (particularly) ITambi l him 3s - drink 6a - water drank water' (o.Pro)

b> Tambi b> bá nú mànèp 'Tambi and others
3 they tambì them 3pl drink 6a- water drank water' (ob.pro)

TAK: Tambi d3ì à - nú mana 'Tambi (particularly) 1Tambi him 3s - drink 6a - water drank water' (ob.pro)

5.2.5. Possessive Pronoun

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All the possessive concord prefixes have the shape CV. The only exception is on the NUM and Bitieuku dialects for noun class two, which are simply V-. The possessives follow the noun they modify. To clearly: illustrate how the possessive and the various noun classes work, the noun class prefixes for each language are listed along with examples. The examples show the prefix, followed by the noun root, and the suffix -CV is the concord element for the first person singular possessive pronoun 'my.' The possessive pronoun suffix is a bound morpheme and changes according to the noun class.

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$\frac{\chi_Q}{2}$	Lower Kenyang	Kendem	Takamanda	Gloss
	Lower Kenyang	Rendem		
1	N: m-mù	N: m- mŭ	N: m-mù :	Person
1	n: nem - wa	ò: ò-nò-wô	me: mè-nò-wà	my husband
2	ba: mà-ném-bâ	à: a-nò-bâ	à: à-nò-bâ	my husbands
3	N: ŋ-gò wâ	ò: ò-wè-wô	me: me-wé-wâ	my fire
	m-báŋ-wâ	N: m-bìáŋ-wô	ε: ε-mbíà-wâ	my horn
	a : a-tu-wâ	ε: ὲ-tù-wô	ε-tú-wâ	ту еаг
Ş	nè: nɛ-kóŋ-nâ	le: lè-koŋ-nâ	nè: nè-koŋ-nà	my spear
	N: n – tay-nâ	N: n-tá-nâ	N: n-tá-nà	my stone
6	bà: bà-ò-yâ	a: a-wè-yâ	ma: mà-wé-yâ	my fires
	á: á-mí -yâ	a-mé-yâ	a: á-mè-yâ	my eyes
<u>6</u> a	bă: wèt-mà	a: à-wí ?-mâ	mà: mȝ-wê-mà	my oil
7	ὲ: ἐ-γέ p-yâ	kè: kè-gôh yâ	gè: gè-gŏ-yà	my bone
8	be: be yep-bâ	O: o-gôh-Bà	Ò: ò-gŏ-bà	my bones
9	N: ŋ-gàk-yà	N: ŋ-gá-wô	N: ŋ-gá-wa	my knife
	n-sòk-yà	O: o-suk-wô	mɛ: mɛ∫ù-ya	my elephants
10	N: ŋ-gàk-yâ	N: ŷ-gá-yâ	N: ŋ-gá-yâ	my knife
	n-sok-yà	O: o-sùk-yâ	mè: me-∫ù-yâ	my elephants
19	sê: sê-soŋ-sâ	ε: ε-sóŋ-fá		my hip
13	kê: kà-sòŋ-kâ	le: lè-sóŋ-tâ	dè: dè-sò-tá	my hips

In the following sections we will present the various noun classes one after the other, each on a separate chart. The noun classes are displayed alongside their concord elements. The form posited as the reconstructed element for each noun class and concord is put at the top of the chart with a starred symbol. In order to avoid repetition, the full forms of the morphemes

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in all the dialects are implicit on the tables for noun classes in chapter two. On the tables that follow, each concord element is labeled as below.

N.cl	=	Noun Class		
1^{st} pos. pro = First Person Pos		First Person Possessive Pronoun		
Num	=	Numeral		
∧j. con =		Adjectival concord		
O. Pro	m me (Object Pronoun.		

5.3. Noun Class 1 and Concord Elements

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P _B *m- N-cl	1 st Pos.Pro.	Num	Adj. Con.	O.Pro
PN *N-	*-wà	*:1	*N-	yi
LK n-	-wà	a	n-	yí
CK n-	wà	a	n-	yi
UK n-	wà	a	n-	dʒi
KIT n-	wà	а	n-	yi i i
KIF n-	wà	а	n-	yi
KEN n0-	wô	a,0	n-	yi
NUM no-	wô -	a,0	me-	dzi
BIT nme-	wa	a	me-	d3i
TAK n-me-	wà	a	me-	dʒi
BAJ n- me-	wà	a	mɛ-	yi
BAS n- me-	wà	а	me-	yi

Noun class one has been reconstructed as *N-. The variants that are found in KEN, NUM BIT, TAK, BAJ, and BAS do not warrant a second noun class because they take the same concord as the prefix N

P _{B:} *ba _NP	1 st Pos. Pro.	Num.	Adj. Con	O.Pro.
PN *ba-	*-ba	*ba	*ba	*bo
LK bà	-bâ	bá	bà-	bó
CK bà-	-ba	bá	bà-	cd
UK bà-	-ba	bá	ba-	bo
KIT bà-	-ba	bá	ba-	cd
KIF bà	-ba	bá	ba-	bo
KEN wà-à-	-ßâ	bá	ba-	bo
NUM à-	-ba	-	-)
BIT wò-à-	-ba	-		Э
TAK à-	-bà	á	a-	bw ⁴ .
BAJ à-	-bà	á	a-	bo
BAS à-,ò-	-bà	á	a-	bwś

5.4. Noun Class 2 and Concord Elements

Noun class two which is the plural form for class 1, has been reconstructed as *ba- The form wa- which is found in KEN and BIT can be attributed to the process of labialization. In some other dialects (NUM TAK BAJ BAS), the initial consonant has been lost completely leaving just a- as prefix. The traces of the deleted consonant can only be found in the concordial elements.

The numeral for noun class one is distinguished from that of N. cl 2 by a change of tone. Cl 1 has a Low Tone while cl 2 bas a High Tone.

5.5. Noun Class Three and Concord Elements

PB: *mu –NP 1 st Pos. Pro.			Num. Adj. Con O.Pro		
PN	*N	*-wa	*a	*a	*wɔ
LK	n-, a-	-wâ	a-	a-	wú
CK	n-, a-	-wa	a-	a-	Wú
UK	n-,	-wa	a-	a-	wú
KIT	n-, a-	-wa	a-	a-	wú
KIF	n-, a-	-wa	a-	a-	wú
KEN	n-, 0-,e-	-wô	0-	a-	wó
NUM	n-, 0-,e-	-wa	0-	a-	wó
BIT	n-,me-,e-	-wâ	e	a -	wú
TAK	me-,e-	-wa	e-	me-	wú
BAJ	me-,e-	-wa	e-	me-	wu
BAS	me-,e-	-wa	e-	me-	wú
			,		

This class has been reconstructed as N-. In classes such as three, where there is more than one prefix. e.g. the hormoganic nasal N-, a-, ε -, O-, and m ε -, the choice of the prefix is lexically determined. The difference in

noun prefix in class three nouns is also not sufficient to set up two different classes because all nouns have the same concords and form their plural in class 6

Example: (8)

a)	n – táp	wâ	' my branch'	
	cl 3 branch	my	-	
ba – táp		yâ	' my branches'	
	cl 6 branch	my		

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b)	a – tú	wa	' my ear'
•	cl3 ear	my	
	ba - tú	yâ	* my ears'
	cl 6 ear	my	

5.6. Noun Class five and Concord Elements

PB di	-NC	1 st Pos. Pro.	Num.	Aj. Con	O.Pro.
PN	*ne	*-na	*ne	*ne-	*no
LK	ne-,n-	-nâ	ne-	ne-	nó
CK	ne-	-nâ	ne-	ne-	no
UK	de-,n-	-nâ	ne-	ne-	no
·KIT	di-,n-	-nà	ni-	ne-	no
KIF	di-,n-	-nà	ni-	di-	no
KEN	le-,n-	-nâ 👘	H-	ne-	no
NUM	le-,n-	-nà	li-	กะ-	ен
BIT	le-,n-	-nà	ne-	ne-	cn
TAK	ne-,n-	-nà	à-	ne-	រា
BAJ	ne-,n-	-nà	à~	ne-	ni
BAS	ne-,n-	-nà	à-	ne-	ก่

Looking at the noun class prefixes of class five, one notices that they all have the shape CV- on the one hand and a nasal one the other hand. We have posited *ne- as the old form. The first argument put forward for reconstructing this class as such is that, all the reflexes in this class have a common point of articulation, viz the dental alveolar, followed by a vowel. The choice of a dental alveolar therefore as initial consonant is not a wrong one.

Secondly, we assume that these reflexes $d\epsilon$, di-, and $|\epsilon$, must have been denasalised in the noun prefix. But since the nasal quality is so strong in these languages, it is still felt in the concords.

What is important to note about KEN, NUM, and even BIT in noun class 5, and 6, 6a is that they merge de Wolf's (1971) PBC classes. In PBC de Wolf reconstructed gender *li- / *a-, on the one hand which corresponds to PB 5 / 6 and a single liquid / mass gender *ma- which corresponds also to 6, in the same Narrow Bantu languages. KEN, NUM, BIT show le- and a- for noun classes 5/6,6a.

Example (9) (cl 5)

KEN:	le-ben	' rock'
NUM:	le-kó	' spear'
BIT :	le-ko	' spear'
	(CI 6)	
KEN:	a-sáŋ	' livers'
NUM:	a-tá	' stones'
BIT:	a-mó	' hands'

Hopefully, the discussion under noun class 6 ahead will help to sustain the argument for denasalisation in noun class five.

5.7. Noun Class six, six(a) and Concord Elements

ALC: N

<u>PB. *ma. Ncl</u>	I st Pos. Pro.	Num.	Aj. Con	O.Pro	
PN *ma-	*ya-	*a-	*a-	ci*	
LK bà-	-yâ	á-	a-	yś	
CK ba-	-yâ	á-	a-	уэ	
UK ba-	-yâ	á-	a-	yo	
KIT ba-	-yâ	á-	a-	ys	
KIF ba-	-yâ	á-	a-	су	
KEN a-	-yâ	á-	a-	уэ	
NUM a-	-yâ	á-	a-	yo	
BIT ma-,á-	-yâ	á-	a-	уэ	
TAK ma-,á-	-yâ	á-	ma-	d3i	
BAJ ma-,á-	-yâ	á-	a-	d3i	
BAS ma-,á-	-yâ	á-	a-	d3i	
Noun Class 6a					
PB: * ma - Ncl	1 st Pos. Pro.	Num.	Adj. Con	O.Pro.	•
PN *ma-	*-ma	*a-	*ma-	cm*	
LK bà-	-mâ	a-	ba-	mó	
CK bà-	-ma	a-	ba-	mó	
UK bà-	-ma	a -	ba-	mo	
KIT ba-	"ma	3	ba-	ma	

KIT ba--ma baamэ KIF ba--ma baamэ KEN a--mâ amb a-NUM a--ma aamb BIT ma--ma mamэ a-TAK mamami -mà maa-BAJ mami -ma ama-BAS mami -ma maa-

Noun class 6 and 6a also show three variants; ba-, ma- and a-. We prefer to posit ma- as the old form for the following reason.

The bV- and mV- prefixes are in complementory distribution: before a nasal initial stem of classes 2, 6 and 6a ma- is found, and before nasal initial stem of class 8 me-. Before non-nasal initial stems one finds ba- and be-respectively. This observation is true for LK, CK, UK, KIT, and KIF. Consider the following examples from LK. (Voorhoeve 1977)

(10)	mà-nòŋ	· blood'	(cl 6a)
	bà – fó	' fat'	(cl 6a)
	m-fo	' chief	(cl 1)
	ba-fo	' chiefs'	(cl 2)
· ·	à- nà	' thigh'	(cl 3)
	mà-nà	' thighs'	(cl 6)
1	nè-cí / ba-cí	' egg'	(cl 5/6)
•	mè-nè	• belly •	(cl 8)
	bè-kók	• bed'	(cl 8)
		the second se	

The merger between formerly distinct mV_{-} and bV_{-} prefixes makes it difficult to know the original shape of the noun prefix of class 6. Vowel initial stems show, however, irregularities that strongly suggest a nasal noun prefix in class 6

Examples (11)

E-side

No.

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、新、山

1. A

àwó / àmó	' hand, arm'	(cl 3/6)
nenéí / ámáí	' nail'	(cl5/6)
nébí / ám i	' breast'	(cl5/6)

This indicates that ma- as a noun prefix of class 6 has been an early development.

It may also be possible that the ba- forms must have come through denasalisation. Kadima (1969), talking about denasalisation, cites Kenyang as one of those languages affected by this phenomenon, and that the result of denasalisation is forms such as ba- for class 6a. Class 6 and 6a are distinguished still by their concords. i.e. cl. 6 ya, yo versus cl.6a ma and mo respectively.

PB*ki -Ncl	1 st Pos. Pro.	Num.	Aj. Con	O.Pro.
PN *ke-	*-ya	* 8-	* E-	*jo
LK ε-	-yâ	£-	£-	уő
СК ε-	-yâ	£-	E-	уэ́
UK ε-	-yâ	-3	ε-	y5
KIT ϵ -	-yà	£-	ε-	yś
KIF ε-	-yà	°£-	E-	yó
KEN ke-	-yâ	£-	£-	y5
NUM ke-	-yà	. E=.	£-	y5
BIT ke-	-yà	£-	٤-	y5
TAK ge-	-yà	ge-	ge-	gèdzi
BAJ ki-	-yà	ge-	ge-	gèdʒi
BAS ku-	-yà	ge-	ge-	gèdʒi

5.8. Noun Class Seven and Concord Elements

In class seven, ke- symbolizes a great variety of prefixes like ϵ -, ke-, ge-, ki-, ku-. To reconstruct ke- for noun class seven seems to be the

best course of action. I assume that a phonetic development k ε --- > ε is more plausible than the other way round.

Guthrie (1967) adopts Bleek's reconstruction for PB class 7 ki-. The V- form for LK, CK, UK, KIT, KIF would then be explained by a morphologically conditioned consonant deletion rule

C ---- > ø/#-

The Nyang languages have proven (chapter 3) to easily delete consonants rather than to insert them. Consequently we assume the old form had been de- which has undergone consonant deletion in the noun prefixes for this class in these dialects.

5.9.	Noun	Class	eight	and	Concord	Elements
			<u> </u>			

PB*bi -Ncl	1 st Pos. Pro.	Num.	Aj. Con	O.Pro.
PN * bε-	*-bâ	be-	bε-	*bó
LK be-	-bâ	be-	be-	bó
CK be-	-bâ	bε-	be-	bó -
UK bi-	-bâ	bi-	bi-	bo
KIT bi-	-bà	bi-	bi-	bo
KIF o-	-Bâ	0-	0-	Э
KEN o	-bà	0-	0-	с
NUM o-	-bà	0-	0-	с
BIT o-	-ba	-	0-	э:
TAK o-	-bà	ù-	u-	ubi
BAJ o-	-bà	u-	0-	<u> </u>
BAS o-	-bà	u-	0-	<u>.</u> . 1

Noun class eight is the plural form for class seven. The reflexes be-, bi-, o-, present a problem. The presence of o- in KEN, KIF, NUM, BIT, TAK, BAJ, and BAS cannot be easily accounted for. The reconstructed form for PB cl 8 is bi-, and it appears that for classs 8 for PN, we need a reconstruction like be-. The Front Vowel being either ε or i. A phonetic explanation for the o- would be that the front vowel became rounded and backed in the labial environment and be- was lost. This means that two phonological rules would apply here successively

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(12) a)
$$[-bk] - > [+bk] / - [+cons]$$

 $[+lab]$
b) $[+cons] - > \sigma / \# -$
 $[+lab]$

Another argument could still lead to say that the U- prefix found in class 8 nouns in so many G.B. languages may derive as readily from PBC *bu-. Since the Nyang languages in some cases have the typical Bantu noun prefix, U which results from bu- has become O- via the rounding process. We can see this from TAK concord elements.

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5.10. 1	Noun	Class	nine,	ten	and	Concord	Elements.
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Noun Class Nine

PB.	-*ny -Nel	1 st Pos. Pro.	Num.	Aj. Con	O.Pro.
PN	*N-	*-ya	*a-	* <u>à-</u>	*jɔ
LK	n-	-yà	à-	n-	yś
СК	n-	-yà	à-	n-	yo
UK	n-	-yà	à-	n-	уэ
кіт	n-	-ya	à-	n-	уэ
KİF	n-	-ya	à-	n-	су
KEN	n-,0-	-wô	à-	n-	cw
NUN	M n-,0-	-wo	à-	n-	wэ
BIT	n-,mu-	-wu	à-	n-	cw
TAK	(n-,mε-	-wà	à-	me-	dzi
BAJ	n-,me-	-wa	à-	me-	dzi
BAS	5 n-,me-	-wa	à-	me-	dzi

Noun Class Ten

PB -*du -Ncl ₁ I	st Pos. Pro.	Num.	Aj. Con	O.Pro.
PN *N-	*-yâ	*e-	*e-	*yś
LK n-	-yâ	£-	ε-	уś
CK n-	-yâ	8-	£-	yś
UK n-	-yâ	E-	٤-	y5
KIT n-	-yâ	£-	ε-	yố
KIF n-	-yâ	E-	£-	yś
KEN n-, o-	-yâ	ε-	ε .	yś
NUM n-, 0-	-yâ	E-	£-	yś
BIT n-, mù-	-yâ	8-	£-	yś
ΤΛΚ n-, mε-	-yâ	E -	ε-	yś
BAJ n-, me-	-yâ	٤-	£-	yś
BAS n-, me-	-yâ	8 -	£-	y5
	· · · · ·			1. Sec. 1. Sec

The class nine and ten noun prefixes are identical and the singular / plural distinction is signalled only by the concording elements.

Both of these classes have been reconstructed as *N- because they regularly show a N- prefix in the languages.

The adjectival concord shows the expected nasal in classes 1 and 9, but, surprisingly different for class Ten. Like the other noun class prefixes, one would expect the adjectival concord to be identical with the noun prefix. At this stage, we do not have a solution to that. A more detailed study of the grammatical system of these languages may provide an explanation.

5.11. Noun Class ninetteen, thirteen and Concord Elements

PB: N.cl	1 st Pos. Pro.	Num.	Aj Con	O.Pro.
PN *se-	*-sâ	*se-	*se-	*s5
LK se-	-sâ	SE-	SE-	só
CK se-	-sâ	SE-	SE-	só
UK -	-	-	-	-
KIT si	-sâ	si-	si-	so
KIF si	-sâ	si-	si-	so
ΚΕΝ ε _	-fâ	£-	£-	-
NUM e	-	E-	£-	-
BIT e	-	ε-	£-	
TAK -	-	ε-	mè-	ewu
BAJ fi-	-fa-	fi-	٤-	u
BAS fi-	-fa-	fi-	ε-	u

Noun Class Nineteen

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Noun Class Thirteen

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PB: -*kaNcl	^{1st Pos. Pro.}	Num.	Aj. Con	O.Pro.
PN *kε-	-kâ	*ke-	*ke	*kə
LK ke-	-kâ	ke	kè	ko
CK ke-	-ka	kε	kε	ko
UK ki-	-ka	kε	ki	ko
KIT ki-	-ka	ki	ki	ko
KIF ki-	-ka	ki	ki	ko
ΚΕΝ Ιε-	-ta	lε	le	ko
NUM de-	-ta	dε	de	ko
BIT le-	-ta	lε	le	ko
TAK de-	-ta	dè-	de	deti
BAJ tu-	-ta	-	tu	-
BAS tu-	-ta		tu	-

These noun classes form an exceptional noun class pair when comparing them with the Bantu languages.¹ They have been arbitrarily baptised 19 / 13 with nominal prefixes se- / ke-. This is however typical for Kenyang. The other Nyang languages present variants for this class such as ε - and Fi-

Example	(13)				
Kenyang	Takamano	ta	Kenden	Gloss	
sè- sòŋ	fi-sô		è-sóŋ (cl l	9) 'hip'	
ke-sòŋ	dè sò		lè –sóŋ (cl 1	3) 'hips'	

¹ Kenyang has all the appearances of a narrow Bantu language. But as stated in the Linguistic Survey of the Northern Bantu Borderland (Vol 1.39) ^{*} in many points of grammar, there is an evidence of an un-Bantu behavior.^{*} Class 19 / 13 gives this evidence.

The change *se -- > e- can be explained by an earlier consonant deletion rule C --- > o / #-. But the change *se --- > fi is somehow complicated.

Based on our word list, UK has no class 19. The LK words for this class belong to class 5 in UK. However, they take their plural in cl 13 for all the three dealects.

(14)	LK (19/13)	UK (5/13)	. CK (19713)	Gloss
:	sè –sòn / ke-soŋ	de-sòŋ / ki-sòŋ	se-soŋ / ke-	• hip (s)'
	se-bê / kê-bê	de-dzwî / ki-dzwî	se-be / ke-	'firewood(s)
· ·	se-pem / ke-pem	dem-pem / ki-	se-pem	' seed(s)

5.12. CONCLUSION

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Throughout this work, efforts have been made to reconstruct elements of the phonology and the noun class system of Proto- Nyang, and to give an account for certain changes in segments in relation to what we have assumed to be the proto forms. In the course of this, several things were noticed which can be grouped under two main categories: phonological changes and morphological changes.

a) Phonological changes

We begin with phonology to say that 19 consonants have been reconstructed for the Nyang languages. All have a contrastive series of voiced and voiceless stops and fricatives including the affricates /c/ and /j/at the alveo palatal point of articulation. Labio velar stops /kp/, /gb/ were also reconstructed. No examples of such sounds were found in Kendem. However, this would appear to be due to lack of sufficient data. The interesting aspect about the nasal series is that there is a contrast between the palatal and velar points of articulation /n/vs/n/. The following nasal sounds have been reconstructed *m *n *n *n *n

A major innovation which is however very clear and which differentiates Kenyang from Denya is that of consonant deletion at word final position of words. Hence the rule

$$C^{---} > \sigma / -- \#$$

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The above rule is true for Denya and more or less true for Kendem. Kendem most often presents a glottal stop ? in p^{1} ce of p, t, k at word final position, thus confirming the fact that it is a transitional point between Kenyang and Denya. Put differently, Kendem lies somewhere between the two languages.

Another significant change has to do with the front mid vowel $/ \epsilon / in$ Kenyang, which is persistently changing in Denya and some other dialects when found at word final position. That is to say $\epsilon ---> V/--\#$ One thing remains unaccountable here: the motivation for the changed vowel.

The majority of the vowels and consonant changes represent a split followed by a merger within an existing phoneme leaving the overall system unchanged. For example the phoneme *r has become two phonemes /r/ and /l/. Some of the vowel changes however resulted in new phonemes; e.g., Kenyang has an additional / i / phoneme, Kendem has an additional / a /, Denya has an additional / gm / for consonants.

b) Morphological changes

Using Voorhoeve's (1980) analysis of Kenyang as the starting point, we noticed that Denya and Kendem have parallel noun class systems. Some of these noun classes have more than one class prefix. But we have decided to label roots as belonging to the same class on the basis of the following criteria: 1) The concord elements that are checked were the same; and

2) They take their plurals in the same class.

For example, class three in Denya has some roots that take the \tilde{e} - prefix and some that take m \tilde{e} -. But we have labeled all these roots as belonging to class three because they take the same concord elements and they have their plurals in class 6.

Example

e-tu – wâ	' my ear' (cl3)	ma – tu –yà ' my ears' (cl 6)
me – w e – wâ	' my fire' (cl3)	ma – we – ya 'my fires' (cl 6)

A comparison of noun class prefixes and the first person possessive pronoun is listed in chapter 4 in the three languages. For example, the first person singular possessive pronouns are nearly identical for all the classes except 9, 13, and 19. We also see that each language distinguishes between classes 6 and 6a. This is one feature that Voorhoeve (1981: 5-6) says marks Kenyang as an example of an intermediary stage between the progressions from Proto Benue-Congo to Proto-Bantu.

Curiously, in Denya there is a collapsing of and shifting of PB classes. PB concordial consonant segments have been lost over time in many of the Denya prefixes. A careful look at the noun classes shows that some are different. Some of them continue to exist on some noun prefixes. The following noun classes have been reconstructed. They are eleven in number.

Noun class 1 2 3 5 6 6a 7 8 9 10 19 13 Proto-Bantu *mu- *ba- *mu- *di -*ma- *ma- *ki- *bi- *ny- *du- *ka-Proto-Nyang *N- *ba- *N- *ne- *ma- *ma- *ke- *be- *N- *N- *se- *ke-

Finally, in terms of dialect relationships, Kendem has proven to be closer to Kenyang than to Denya. Judging simply by the resemblance of roots, one is tempted to say that Kendem is part of the continuum of Denya

dialects. The dialects for each cognate set have been arranged such that the further we move away from Lower Kenyang, the lesser the similarity. In the schema below, each adjoining pair of dialects is relatively close and perhaps mutually intelligible. But as we compare two non-adjoining points on the line, intercomprehension is more difficult or even impossible.

Lower Kenyang - Kendem - Bitieuku - Takamanda - Bajwa - Basho

The Kenyang language all along has proven to be resistant to changes. This is a suggestion that it is the language that is closest to the protolanguage if not the proto language itself. Very few changes have been noticed both phonologically and morphologically. On the other hand Denya has been affected most by these changes in the course of time.

We want to aknowledge the fact that throughout this study, very little has been said about tones in the Nyang languages, i.e. that they have two tones underlying, viz. the High and Low tones. Nothing has been said so far about the reconstruction of these tones. In order to reconstruct tones and come out with any firm conclusion, more work would need to be carried out on the tonal analysis of these languages. We think that this constitutes another major part of research as we intend to further research on this study.

The pages that follow will be made up of appendices. Appendix (A) is a list of some cognate set examples used in this work. For each set the gloss as well as the reconstructed form is placed at the top with a starred symbol. Appendix (B) is a list of reconstructed roots with the gloss, arranged in alphabetical order to ease reference. Appendix (c) is made up of reconstructed noun prefixes.

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Appendix b

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INDEX OF PROTO - NYANG ROOTS

		•	
l d	*me	plant (V)	*pi
You	*W0	bury	*beme / ni
he / she	*ji	cook	*na
you (pl)	*beka / jil	burn	*səŋ
we	*SE	eat	*ne
they	*Bo	drink	*ุกน
who	*ya	vomit	*gwo
what	*ji	spit	*pa
when	*ti	blow	*fɛp
how	*na	swell	*mwot
where	*fa	give birth	*Be
there	*u	sit	*cok
in	* mem	stand up	*te
behind	*sem	lie down	*bire
right (adj.)	*nem	die	*gu
left (adj.)	*wo	kill	*way
one	*mot / ma	throw	*fem
two	*pai	push	*puri
three	*rat	pull	*ja
four	*nwi	sing	*kway
five	*tay	dance	*Ben
six	*tandat	play	*sa
eight	*nɛn	laugh	*way
ten	*bio	cry	*di
twenty	*sa	suffer	*ŋɛri
come	*two	fear	*cay
send	*to	want	*yaŋ
walk	*ko	love	*koŋ
fall	*kwen	say	*rem

leave	*re roŋ	think	*kayensi
pour	*fie	see	*go
fight	*nu / me	show	*toŋ
hit	*dep	hear	*gok
bite	*nem	smell	*koti / nɛm
scratch	* nwat	know	*riŋ
rub	*wat	count	*pay
wash	*so	mouth	*Nu
cut off	*kim / s (V)	eye	*Net
split	*gat	head	*ti
tie up	*gwoł	hair	*mene
take	*sot	tooth	*nen
give	*се	tongue	*neri (NVNV)
search	*yaŋ	nose	*Nuen
find	*go	ear	*tu
steat	*цер	neck	*mi
squeze	* ŋa (CV)	breast	*Be
braid	*tiŋ	arm	*wo
fingernail	*nay	house	*kel
leg	*kak	village	*tok / L(V)
thigh	*na	fire	*go
hip	*son	firewood	*we
foot / sole	*jat	ash	*twop
penis	*dem	garbage	*յուղ
vulva	*kwet	hole	*bok
- buttocks	*net	calabash	*ti / swo
stomach	*ne	knife	*gak
nostrille	*nuen	string	*nik
liver	*cen	spear	*koŋ
intestine	*tep	arrow	*ket
blood	*noŋ	war	*nu / bi
urine	*ce	clothes	*den
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excrement	*bi	net	*si / sa
bone	*gep	animal	*ла
skin	*kwo	dog	*mu / mie
wound	*fwet	elephant	*suk
wing	*Bap	leopard	*kwɔ
feather	*jok	goat	*Nen
horn	*baŋ	bird	*nen
tail	*go	tortoise	*wɛn
person	*mu	snake	*ло
woman(wife) *gore / dí	fish	*si
	d) *nɛm / no	lice	*bini
father	*ta	egg	*ci
mother	*ma	tree	*nok
child	*mɔ	leaf	*je
brother	*No	seed	*pɛm
name	*jien	root	*kaŋ
sky	*bu	grass	*tako
night	*ti	salt	*gan
moon	*taŋ	fat	*fo
star	*be	oil	*wɛt
day	*лор	old	*kok
sun	*Nok	new	*ko / kie
wind	*bwep	big	*cik
cloud	*baŋ	tall / long	*sap
rainy season	*so	short	*biŋ
dry season	*nem	heavy	*лиор
year	*Ne	full	*jwi
soil	*top	dry	*gwo
sand	*siep	rotten	*po
stone	*tay	good (taste)	*ri
hill	*je	bad	*bɛp
road	*bi / tì	cold	*kwen
			· · · · · · · · · · · · · · · · · · ·

river / stream *nen		hot	*soŋ	
water	*յւշթ	 hunger	*say	
back	*pio	fly	*re	
white	*ρερ	:		
red	*cu	· · · ·		

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Appendix c

INDEX OF PROTO -- NYANG- NOUN CLASS PREFIXES.

			4
Nou	in class	PB	PN
	1	*mu-	*N-
•	2	*ba-	*ba-
	3	*mu-	*N-
	5	*di-	*de-
а — А А	6	*ma-	*ma-
•	6a	*ma	*ma-
••••	7	*ki-	*ke-
·	8	*bi-	*bɛ-
	9	*ny-	*N-
	10	*du-	*N-
	19		*se-
	13	*ka-	*ke-

Appendix A

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No.3

Cognate Set examples used this work

			(2) ha (aha *ii
	(1) I *me	(2) you *wo	(3)he / she *ji
LK	mê	ćw	yí
CK	mê	éw –	уĭ
UK	mê	wò	dzí
кіт	mì	ý.	è'yì
KIF		wò	à'yĭ
KE	N mô	wô	lì
NU	M mô	wò	d3ì
BIT	mì	wù	dʒì
TAI	K mè	ćw	dzì
BA	J mù	wù	yî
BA	S mê	wò	yì
• · · · · · · · · · · · · · · · · · · ·	(4) you (pl)	(5) we *se	(6) they *bo
	*beka		
LK	bê: ká	bè'sé	bó
CK	béì'ka	bè'sé	bò
UK	bêká	bè'rè	wó
KIT	béì	sì	bó
KIF	s bí	bés	bó
KE	N nyí	è'sí	bó
NU	M	è'sí	wo
BIT	r nyi	si	wà
- TA	K è'nú	è'sé ?	ćw
BA	J n'nyí	é'sì	è'bwó ?
BA		è'sé	ò'wô

	(7 who ? *ya	(8) what ? *ji	(9) when ? *ti
LK	à'yá	yî	n`tígm`pók
СК	á'yà	yî	n'tígm'pòk
UK	'áyà	dʒì	à'tígṁ'pòk
KIT	bò'ágà	dʒì	è'ní
KIF	à'yà	dʒì	tíkm'pók à
KEN	'élì é	n'dì	ň'díkèbì
NUM	dzì é'mù	n'dî	à'dígè'bì
BIT	gwŏ	ì'dé	à'dígəbí
TAK	wâ	n'dé	n'dégàbé
BAJ	'élúwà	n'dí	kì'víèné
BAS	wă	n'dí	h'dí gèbé
			· · · · · · · · · · · · · · · · · · ·
	(10) how ? *na	(11) where ?	(12) there *u
		*fa	
LK	ná	fá	á'ù
СК	ná	fay	á'wù
UK	ná	fá	à'yá
KIT	nây	fáy	'fáí
KIF	na	wén	'wénè
KEN	лúò	'éfúð	'féné
NUM	. · · · . · · · · · · · · · · · · · · ·	à'lè	fínè
BIT	òʻpíè	fì	'wínè
ТАК	nò	ì'fó	'όù
BAJ	ð'lúnò	à'lé	'fíní
BAS	n'di	· · ·	mà'nê

A. States

· · · · · · · · · · · · · · · · · · ·	in	(13) in *mem	(14) behind *sem
LK		à'mém	àn 'sém
СК	т., .	áˈmə̀m	án 'sèm
UK		à'mèm	àn 'sèm
КІТ		à'mèm	àn 'sèm
KIF		à'mém	'ansem
KEN		mém	ósèm
NUM		mù	òsì
ΒΙΤ		mù	mæ'sâ
TAK		mò	mè'sò
BAJ		í 'mờ	mì'sí
BAS			mè'sò
1. A.			
	(15) near	(16) far	(17) right *n em
LK	kwó 'kw à t	někô: né 'síè	à 'wô: ném
СК	kwú 'kwət	è`sáp	à 'wóném
UK	kwó 'kwàt	wè'né	à 'wonem
KIT	kwókùó	dzém	a 'bonem
KIF	pà'pát	dzém	à 'bóném
KEN	sísí	lékèrèsíyè	e 'nóm
NUM	sìsì	tè'wóne	è'wónò
BIT	រា'រា	à'sò	è'wônò
ТАК	kwó'kw àlì	'têtê	è'bwányè
BAJ	fê'né	fī'ni	èwònyè
BAS	kálegba	'kásà	wònyé

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	(18) left *wo	(19) one *mot	(20) two *pay
LK	à'wô :	é'mòt	bé'pày
СК	a'wókwàp	è'mot	bè'páy
UK	à'wókwâ	è'mwà	bè'pày
KIT	à [•] bógô	è'mô	bì'pây
KIF	à'bógé	è'mô	bì'pá
KEN	è'bé	kèm'yá ?	'ópá
NUM	ε'wób è	ge'má	ò'pá ,
BIT	e'wôbé	kà'mâ ?	òpá
TAK	è'bwábè	à 'má ?	'épá
BAJ	è'wobè		
BAS	wòbé	kè'mwá	ò'pà
	(21)three*rat	(22) four *nwi	(23) five *tay
LK	bé 'rát	mé'nwì	bé 'tày
СК	bè 'rái	mèn'wí	bè 'táy
UK	bè 'rá ?	bìn'wî	bè 'táy
KIT	bì 'râ:	bi'nywì	bì 'táy
KIF	bì 'râ:	bi'nî	bì 'tá
KEN	'ólé	ó'nî	ó'tà
NUM	ò'lé	ò'ní	ò'tá
BIT	ð'lé	o'ní	ò'tà
TAK	è'lé ?	è'nî	è'tá
BAJ			
BAS	ò'lé	ù'ní	ò'táy

	(24) six	(25) seven	(26) eight *nen
	*tandat		
LK	bè 'tándàt	tán'dràmòt	mê'nèn bě ⁱ nèn
СК	bè 'tándàt	tándrá'mòt 'tàndámô	bénèn
UK	bè 'tándàt	tándamo	bí'inèn
KIT	bì 'tándâ	tàndrámô	mě:nèn
KIF	bì 'tándá ó'kéné	ó'kénéàmŋá	'диеп
KEN NUM	o kene 'òkèné	ò'kènàmâ	ò'nê:
NUM	ð'kínè	ò'kínàmâ:?	ò'nî
TAK	'òkíní	òké ¹ námà	ò'nê
BAJ			
BAS	ó'kénè	'kênámà	ð'nê
	(27)nine	(28) ten *bio	(29) twelve
LK	nè 'nènámòt	'bíð	bíd nè be pây
СК	'nèná 'mòt	bi'o	bí ò nè bè 'páy
UK	nè 'nénà 'môt	bíò	bíð nè bè 'páy
KIT	dí 'nenàmôt	bì'óŋ	bì 'óŋ nè bì 'pây
KIF	'nènámô	bíò	'bíò nè bì 'pá
KEN	'ònénàmŋá	bíòm	'bíòm 'nópà
NUN	1 ònénàmâ	ò'fíà	ờ' fĩà nờ pá
BIT	ð'ninámà ?	ò'fíà	o' fíà nè'pá
ТАК	'ònê 'námà	ò'fíà ?	ò'fíà 'nòpâ
BAJ) ò'fíà'nópà
BAS	ò'nénámà	ò'fíà	Unanopa

	(30) twenty	(31) one	(32) come *two
	*sa	hundred (comp)	:
LK	è 'sá	bè 'sá 'bètây	twâ
СК	è 'sâ	bè 'sâ bè'táy	twá
UK	è ⁱ sà	bè 'sá bè'táy	twó
КП	è 'sáù	bè ¹ sáù bì ¹ táy	tò
KIF	è 'sâ	bì 'sâ bì'tá	tó
KEN	é 'sàm	'òsàm 'òtâ	twô
NUM	é 'sà	ò 'sà à'tá	twò
BIT	è ˈsô	ò 'sô otá	twò
ТАК	è 'sâ	ò 'sâ ò'tá	tʃwô
BAJ			tó
BAS	è 'sâ	ò'sá ò'tá	twò
	(33) send	(34) walk	(35) run
	* to	*kɔ	· · · · · · · · · · · · · · · · · · ·
LK	tó	kò	dzet á'tiét
СК	tó	kô	n 'tiet
UK	toŋ	kàû	è'gbə
KIT	túŋ	kî	bwé .
KIF	túm	kíè	tì
KEN	tòm	kénè	té
NUM	tó	kíè	'lùmô
BIT	tó	kε	'lúmú
TAK	tò '	t∫è	bo
BAJ		'kíyè	dù 'mú
BAS	tó		kà 'télê

	(36)fall *kwen	(37)leave *roŋ	(38) arrive
LK	kwén	róŋ	twâ
СК	kwén	ró	twâ
UK	kwén	róŋ	twò
KIT	kwén	róŋ	tʃùô
KIF	kwèn	róŋ	tò
κεν	kwén	'twánè	yá
NUM	kwé	fé	twó
BIT	kwí	'kwíli	tô
TAK	kwé	líà	t∫wô
BAJ	kwé	sú	tó
BAS	kwè	'túrò 'kùrú	
	(39) fly *re	(40) pour *fie	(41) fight *nu / mie
LK	rě	'fié	nù
CK	ré	ſīé	nù
UK	rí	kò	nù
KIT	fî : • 1	fiè	nù
KIF	'fwérờ	'fíè	nù
KEN	'lèné	fíè	ò'míè
NUM	'lénè	'fánè	wà'míè
BIT	'lène	'fánè	à'míè
TAK	'lìéné	'ſſ'è	ó'míè
BAJ	'léní	fî'é	ò'myìé
BAS	kờ'fùnú	fì'é	ò'míè

	(42) hit *d sp	(43) bite *nem	(44) scratch * ŋwat
LK	dèp	ném	ŋwàt ^h
CK	tém	ném	ŋwát
UK	dép / tém	ném	ŋwâ :
KIT	dèp / tú	nèm	ŋwâ
KIF	dep / tèm	nèm	ŋwát
KEN	dèp	nom	ŋwá
NUM	gó	nò	ŋálè
BIT	go	nò	'ŋálè
TAK	dò	nó	ſù
BAJ	dé ?	nó	ŋá
BAS	ŋ 'kwé	nwô	
	(45) rub	(46) wash	(47) cut off *kim /
	*wat	*so	s(v)
LK	'wátì	sô	kí
CK	'wátì	sô	kót
UK	'wátì	sò	kî
KIT	gwătì	sû	kí
KIF	dìrígàtí	sò	kím
KEN	gô	*swéné	kámpw`
NUM	-	ŋ'gwá	só
BIT	γ ^w ò	gwò ?	sà
TAK		'ſwòné	Ś
BAJ	wá	wó	só
BAS	ŋ'gwá	n'sú'ùnù	ŋ'kíè

. 1	(48) slice	(49) split	50 tie up	(51) take
		*gat	*gwot	*sot
LK	kpótì	'rat / dát	gwót	s5t
ск	fí 'é	gát	gwét	bwóp
UK	t∫é	dák	gwô	sâ
KIT	'síè	gâ:	'gùó	'bùó
KIF	kím	gá	gwùt	sôt
KEN	'gétì	'gyætì	gwé	bð
NUM	gérè	gì 'á	gwć	bó
BIT	SƏ	g ^y æ	wé	sè
TAK	'tʃénè	gi ⁱ á	wè	ćd
BAJ	yě : 'tì	yá	wé	vó
BAS	gá	gá	we	vó
	(52)give *ce	(53)search	(54)find *go	(55) stea
		*yaŋ		*gep
LK	tjîé	yáŋ	ró	γèp
CK	ıjé:	yáŋ	rò	γέp
UK	tſíè	'dʒí ŋè	yáŋ	γέp
KIT	tjè	yáŋ	gó	gép
KIF	tje tjè	yàŋ	bóŋ	gep
KEN	kò	bàm	gyé	èdzèp
NUM	tjê	bú	'gíè	adzi
BIT	tĵ ^y ê	ćd	to	dzì
ТАК	tjîê	'kálè	gé	è'dʒò
BAJ	tjê:	yè'lí	kð'ló	è'gé
BAS	kì'é	'dʒw´lw`	'kólókò	yó

	(52) squeeze	(57)braid	(58) hunting	(59)plant *pi
	* ŋа	*tíŋ	···	
LK	ŋă	nép	kèn'tèmé	pì
CK	лâ	tòŋ	kèn'tèmè	pî
UK	ŋô	nép	tèm (shoot)	pì
KIT	ŋáù	tóŋ	ŋ'súŋô	pî
KIF	'ŋámé	tìŋ	'sòŋgô	pí
KEN	ʻŋámà	វេព្	kén'témà	pê
NUM	ŋámè	àmé'dì	kèn'túmò	pè
BIT	ŋómờ	ní	kèn'túmò	pè
TAK	'ŋámè	tò	gìn'twmè	pè
BAJ	ŋá mù	tò ?	k èn'túmò	pè ?
BAS	ŋámè	tó	mwá	pè
				· · · ·
	(60)bury	(61) cook	(62) burn *sɔŋ	(63) eat *ne
	*beme	*na		
LK	'bémè	ná	sóŋ	nyé
CK	'bémè	nâ	sóŋ	nyê
UK	'bémè	nò	gwò	nyé
KIT	'bémè	'náù	sóŋ	nyé
KIF	'bémè	ná	sóŋ	nyé
K EN	'nìhí	è'tʃípì	kpâ	nyé
NUM	nyí	píònyè	só	nyé
BIT	nyì	té	só	nyé
TAK	ni	'tíê	sò ?	'nyîê ?
BAJ	'nyìsé	ព្រ	só	nyí
BAS	nyísíè	ŋ'kí	kè'vé	nyé
			•	

	(64)drink *nu	(65)vomit 💈	(66) suck	(67)spit *pa
		*gwo		
ĽΚ	nyú	gwó	nyú	pá
СК	nyû	gwà	nyû	pá
UK	nyú	gwờ	nyú	'tíè
KIT	nyú	gwò	nyú	'pàó
KIF	nyù	gwà	nyù	pám
K EN	րմ	gwô	յոմ	pám
NUM	nyù	gwà	nyù	kì
BIT	றú	wô	nú	pì
ТАК	nù ?	wô	nù ?	kpò
BAJ	nyú	wô	nyú	té
BAS	nyú	gwô	nyú	kpw
	(68)blow *fep	(69)swell	(70)give birth	(71) sit *cok
		*mot	*Be	
LK	fép	'mùòt	bé	′t∫ókò
СК	fép	mwàt	Bê	't∫ókà
UK	fép	mwô	bê	't∫ók à
KIT	fếp	'núò	bě	ˈtʃɔ̃gɔ̀
KIF	fép	môt	bî	⁺t∫ókò
KEN	fèné	' éŋmð	'bíèn	'lwămé
NUM	fi'né	èŋmwé	'bí 'è	lú 'ð
BIT	'fín è	kì 'mwé	'bíè	lúèlè' mê
TAK	f3 ?	gem'wé?	'bíè	dzů'élékà
D 1 1	à'fúnù ŋ'gú	à 'mwæ	'víè ?	lò'lú
BAJ	1			

	(72) stand up		(74) sleep	(75) die *gu
	* te	*bire		
LK	bè'té	bírè á mik	'bírèké 'nd	gú
СК	fà'tě	bwr ì á mì k	'bwrð kè 'nó	gû
UK	bè'té	Bí	Bí	gú
KIT	dì'téî	bî à 'mìk	bî	bù
KIF	dì'tèné	bìr à à mìs	bírà	gwù
KEN	kúlímê	Bâmé	Bâ'mănò	gì
NUM	'ténè	væ: 'mè	væ	gí
BIT	'kwúì	tfù 'válé	'válè	gbí
TAK	'ténè	'bélè	¹ bélè	nég'bò
BAJ	'ténè		'vólò	gbú
BAS	'ténê		'Bèlá	aùn 'bw
	(76) kill *way	(77) toss	(78)throw*fem	(79)push*puri
LK	wây	fémérì	tém	'pùrí
СК	wây	gèp	gèp	'púrì
UK	wáy	gì	gì	'púrì
KIT	gwáy	gíà	tém	'pírì
KIF	gwâ	fém	fém	'pérà
KEN	'gwá	gà	fàmà	'pùrì
NUM	wá	gbédè	fú'mò	té
BIT	wá	fúmù	fúmù	té
TAK	wá	ŋmè	to	'pélè
BAJ	à'píè 'nèmì		ŋmè ?	
BAS	wá	mwé	mwé	té
•				

	(80) pull *ja	(81)sing	(82)dance	(83) play *sa
		*kway	*Ben	· · · · · · · · · · · · · · · · · · ·
LK	yà	kwáy	Bèn	ñ'tòk
CK	уă	kwây	Bèn	n'tók
UK	dʒò	kwáy	Bén	ká'sárà
KIT	'dzáò	kwáy	bén	kè'sáhà
KIF	d3á : m	kwó	bèn	ntuk *
KEN	dʒam	kwáŋ	bén	kèsè 'há
NUM	dzá	kwá	bé	gèsá
BIT	tígètô	kwà	bí	kè'sà
TAK	dzá	kwá	bè	mè'tù
BAJ				
BAS	'gìá	kwá	'bìé	àm'bòsá
	(84)laugh	(85) cry *di	(86)suffer	(87)fear *cay
	*way		* ŋɛri	
LK	wày	dì	bè 'yúŋòrì	t∫ây
CK	wáy	dí	è 'sòŋérì	t∫ăy
UK	wày	dì'dì	è 'sóŋérì	tſá
KIT	gwây	dì'dì	è 'tígèrí	tſáy
KIF	gwĵ	dì'dì	è 'tígèrì	t∫á
KEN	dzòán	mènà'gí	'kéfðrá	¹t∫ánè
NUM	dzù'à	né	gè 'fwálè	bímà
BIT	dzâ	nê	kè 'fwálè	bî :
TAK	'dzùá	'màgbô	è' fwfàlè	è 'fô
BAJ			-	· · · · · · · · · · · · · · · · · · ·
BAS	dzùwá	dŵ	kà válákè	

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ALC: NO.

A Property of

	(88)want *yaŋ	(89) love	(90)say *rem	(91)think
	· · · · · · · · · · · · · · · · · · ·	* koŋ		*kayen
LK	yáŋ	kòŋ	rèm	'káyèsí
СК	yáŋ	kòŋ	dèm	'káyènsî
UK	yáŋ	kóŋ	dém	'káyènsì
КІТ	yáŋ	kóŋ	dém	'káyènsì
KIF	yáŋ	kóŋ	'pwémè	'ká'ènsì
KEN	bàm	kòŋ	d3w	'kyíhá
NUM	bò 'mò	kó	kâ	'kíâ
BIT	'bùmù	kð	kâ:	'kíà
TAK	'kélègè	gidzĭ :	'kéyà	'fêrè
BAJ				
BAS	'kólòkò	'lómè	'kéà	gwósèkè
	(92) see *go	(93)show	(94) hear *gok	(95) smell
		* toŋ		*koti / nem
LK ·	ró	tốŋ	rók	'ókòtì
CK	ró	tòŋ	rok	rók é 'nèm
UK	ró	tóŋ	wók	'wókòtì
KIT	gó	tóŋ	wùk	wùkè 'rí à
KIF	gá	tóŋ	wók	nèm
KEN	gyé	tóŋ	gú ?	'fúòtí
NUM	gí'è	lérè	gù	'númù
BIT	'gíè	lédè	gù	ոնուն
TAK	gé	'lèrè	ù	gé'bè
BAJ		• .		
BAS	dzé	SÌ	'fíti	¹ nùmó
		· · ·		

1. SA

	(96)know *riŋ	(97)count	(98)mouth*Nu	(99) eye *ne
		*pay		
LK	ríŋð	pày	ŋ'nnù	'nése
СК	dè 'ríŋð	pây	្រាû	nés
UK	bè 'riŋə	pây	'n'nyù	nét
KIT	dì 'ríŋð	pây	'n'ɲyù	nyê
KIF	dì ¹ díŋð	pà	ň'yù	nyès
KEN	ká	pá	'ònèm	ѝуе́
NUM	ká	pá	ò'nò	tàmbón ¹ yì
BIT	kò	pa	mò'nú	n 'yí
TAK	ká	pa	mè'nô	'émè
BAJ			mè'nè	èn'yé
BAS	ká	pà	mè'nó	ற
	(100) head *	(101) hair	(102) tooth *	(103) tongue
	ti	*กาะกะ	្យាខា	*neri
LK	n ⁱ tí	è'ménè	'nénén	'nérí
CK	ň'tí	è 'ménè	de'nyén	dê'rw
UK	ǹ'tí	è 'ménè?	deny	dè'rw
KIT	à ⁱ tí	è 'ménè	dinyén	dì'rí
KIF	ň'tí	è 'ménè	dinyén	dì'rîm
KEN	'okî	ὲ ˈdʒíè	'lényéné	'oliŋ
NUM	ò'kì	ô 'dzíè	nènyénè	tèn'ámò
BIT	mək'pi	mè'dzê	línyènè	lé'nómò
ТАК	mê: k'pò	mên'dzúè	'niŋàné	'nènámè
BAJ	'mòkpó	mì'é	'nényénè	né'nòmù
	1 1	mè'yé	ŋmá	nè'nwmw

	(104)nose	(105)ear	(106)neck *mi	(107)breast
	*Nuɛn	*tu		*Be
LK	nú'én	à'tú	è'mì	né'bî
CK	nù'én	àˈtú	èmì	dè'bŵ
UK	n'yúèn	à'tú	è'ŋmì	dè'bi
KIT	ɲù'én	àˈtú	Èmį	dè'bì
KIF	្រាជ់'ខ៍ព	à'tù	è'ŋmíè	dìbíà
KEN	றôn	è ⁱ tù	kémê	lè'bé
NUM	nyŏ:	è ⁱ tù	ki'me	lè'bé
BIT	nyé	è'tù	kè'me	nè'bé
TAK	nùé	è'tú	'gémè	ném'bè
BAJ	ì'nyúè	è'tù	ké'mê	ki ⁱ tó?
BAS	nù'é	è'tù	mé'mòlò	kètè'té
	(108) arm	(109) finger	(110) leg *kak	(111) thigh
	* wo	nail *ɲay		*na
LK	à'wó	'nényây	è'kàk	à'năkàk ^h
СК	à'wó	nèn'yáy	è'kák	à'nâ:'kák
UK	à'wô	dényâ	è'kák	àʻnò
KIT	à'bò	dìn'yáy	è'kàh	à'náò
KIF	aʻbó	din'ya	à'kù	ànâ:mà'kù
κ εν	è'mwô	'lényàné	'ékú	'enámè'kû
NUM	è'wò	nèn'yénè	è'kù	è'ná a'kù
BIT	èwô	lèn ¹ yénè	è'nó	ènó à'kú
TAK	'èbwô	ⁱ níŋánânè	gè'ká	è'nágwká
BAJ	è'wô	nèn'yánè	è'kû / kè'ká	è'nà
BAS	ćw	nèn'yánè	kè'ká	ná'àkù

a kanala

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1963-1869

. Shere

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	(112) hip	(113) foot /	(114)penis	(115) vulva
	*soŋ	sole *jat	*dem	*kwet
LK	sè'sòŋ	nè'yàt	n'dèm	nè'kwét
CK	sè'sòŋ	dè'dʒát	à'dèm	dèkwét
UK	dèʻsóŋ	dè'dzát	n'dèm	ùt∫èn
KIT	sì'sóŋ	dì'dʒâ:	n'dèm	dè'kwet
KIF	sìˈsòŋ	dì'dʒát		
KEN	'èsóŋ	'legâ?		·
NUM	è'sô:	lè'dzát		
BIT	è'sò	kè'kìá	kè'nì	mè'nô?
TAK	'ésò	nè'dʒánè	'dámpê	mè'nô
BAJ	fî¹sô	nè'yà		
BAS	fù'sùò	nè'ánòkò	<u>·</u>	
<u> </u>	(116) buttocks *net	(117) sto- mach *Ne	(118) nostrill *nuen	(119) liver *cɛn
LK.	é'ràkánèt	mè'nè	m'bòk'nùén	bè't∫èn
СК	e'bákè'nét	mè'nyé	m'bóko'nùén	be't∫énè
UK	net	bɛ'nyê:	m'bókànyúèn	bè'tʃén
KIT	net	bì'níè	m'bókò'nyúèn	bì't∫ènè
KIF		bìníè	m'bòkànyùèn	bìsígð
KEN		'òníè	mbuʔɲùòn	<u>àsán</u>
NUM		ò'níè	m'bú nyúò	ò'kê
BIT	mè'nô?	o'né	mbú nye	ò'kì
TAK	mè'nô	'òné	ɛmˈbú nùé	ú'kì
BAJ		ò'nè		otjè
BAS		ú'nè	mbú'nùé	ò'kyé

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10.100

C. Personale

(1998) 1997

	(120)	(121) blood	(122)urine	(123) excre-
	intestine * tep	*noŋ	*ce	ment *bi
LK	nèn'tép	mà'nòŋ	bà'tʃê	kè'bí
СК	nèn'tép	bà'nô	bà'tʃê	kè'bí
UK	tàn'tép	bà 'nò	bà'(ʃè	kê'bî
KIT	dèn'tèp	bá'nû ŋ	bà'tʃî	kì'bí
KIF	din'tép	bà'nù	bà't∫ê	ki'bì
KEN	'léntép	á'nôŋ	át∫ên	lè'bî
NUM	m'bŭ: nyè	a'nò:	·	
BIT	m'bî: nè	mà'nò	mé	lè'Bí
TAK	m'bùné	má'nŏ	mê	dì' bì
BAJ		mànŭ:		
BAS		mè'nú		
			· · · · · · · · · · · · · · · · · · ·	
	(124) bone	(125) skin	(126) wound	(127) wing
	* gep	*kwo	*fwet	*Bap
LK	έ'γέρ	ìj'kwòp	è'fwèt	è'Bàp
CK [°]	ὲ' γέp	ŋ'kwómwét	è'fwét	è Báp
UK	ὲ' Υέp	ŷ'kwo'ŋmế?	è'fwré?	èBá?
KIT	è gép	ŋ'kúô:	è'furè	è'bô:
KIF	è'gɛp	ŋ'kupemî	è' fû ò t	è'báp
KEN	kè gôh	'òkò?'míè	'kèpáŋ	ke'bá?
NUM	kè`gŏ	ò'kó?	kè'pá	kê'bá
BIT	kè'gó	mè'kómìé	kê'pò	kê'Bò
TAK	kè'gŏ	mền'yámìé	gé'pà	gè'bágèlé
BAJ	kè'ŭfó	mèn'yámìé	kí'pà	kí'vâ
BAS	kùn'fúð	mó'kwômìn'	kò'pwæ	kàbáfènê
		yámè	• • •	

	(128) feather	(129) horn	(130) tail	(131) person
	* jok	*baŋ	*gɔ	*mu
LK	è'yòk	m'bàŋ	ŋ'gó:	mù
СК	è'dzók	m'báŋ	ŋ'gó	mù
UK	è'd3wák	m'báŋ	Ŋ'gó	'kwáŋwà
KIT	ɛ'dʒôh	m'báŋ	ŋ'gŏ:	mém
KIF	e'dzos	m'báŋ	ŋ'gíŋ	məm
KEN	dzòh	'm'bìáŋ	'ògyê	mŭ
NUM	d36	m'bíà	odzí'è	míè'mù
BIT	gì'á	m'bíð	mè'dzé	mù
TAK	dʒágè	èm'bíà	mè'gìé	mù:
BAJ	yà:'ko	m'bíà	mè'yè	mu
BAS	'fíntwò	m'bíà	mè'yé	mìémù:
	(132) man	(133)	(134) wife	(135)
.*		woman		husband
	- -	*gore		*nem
LK	m'bákàném	ì)'gòré	ŋ'górè	ném
СК	m'bák àn èm	n'górè	n'góre	nèm
UK	mù	<u>ŋ</u> 'gŏ	ŋ'gó	ném
KIT	mém	ŷ'gŏ	ŋ'gŏ:	ném
KIF	mém) 'gírá	n'gírá	ném
KEN	'òndî	'òndí	'öndí	'ònô
NUM	òn'dî	òn'dí	òn'dí	ò'nò
BIT	mən'dí	màn'dì	mòn'dì	mə'nŏ
TAK	mén'dè	mêndé	mên'dé	mé'nò
B AJ	mèn'dì	mèn'dí	mèn'dí	mè'nò
BAS	mèn'dŵ	mèn'dw	mèn'dw	mè'nó

	(136) father	(137)mother	(138) child	(139) brother
	* ta	*ma	* mo	* No
LK	é'tá	má	mờ	má'nờ
СК	è'tá	má	mô	mà 'nó
UK	ta	má	mò	mà'nó
KIT	táy / tʃì	ma / níè	mòú	mò'níè
KIF	ព្រ	'níè	mò	mà 'ní
KEN	'átá	ma	ŋm' ŋmá	'òní
NUM	à'tá	næ	mæ:	ò'ní
BIT	h'té	mô	mæ	mè'mì
TAK	n'té	ma	mæ:	mè'mò
BAJ	n 'té	má	mæ	դՠծդ'ՠù
BAS	n'té	má	mâ	mè'mó
	(140) name	(141) sky	(142) night	(143) moon
	* ភ្លះព	* bu	*ti	* teg
LK	nyén	nè'bù	bè'tí	à'tàŋ
CK 1	nyén	de'bû	bè'tì	n'táŋ
UK	nyén	dè'bú	bè'tî	n'táŋ
KIT	nyén	dì'bû	bì'tì	ǹ'táŋ
KIF	nyén	dì'bù	bì'tì	à'tàŋ
κεν	nyèn	lè'bú	o'tǔ	è'múkíè
NUM	nyé	m'fáy nè'bú	òtû:	mù'kíè
BIT	'n'yì	lè'bú	ótŭ	'mùkíð
TAK	'mábò	hfánè'bủ	ò'tǔ	ň'fâ
BAJ	màBó	h'fá nóù	kè'má?	n'fá?
BAS	mà'vô	· · · · ·	kò'mwæ	'mùmètíè

	(144) star	(145) day	(146) sun	(147) wind
	* be	*лор	*Nok	*ხwεp
LK	nèm'bè	nú'òp	mók	m 'bwép
СК	nèm'bê	nyòp	mòk	m'gbép
UK	nèm'bé	n'nyô:	m'mòk	m'gbé?
KIŢ	dìm'béì:	1	moh	m'b°x ĭ
KIF	dìmbê	núòp	mû:s	m'b ^o r ép
KEN	óm'bî	ந ல்?	mwh	'kèfènê
NUM	om'bì	ɛ'wâ:	ŋmč:	de'fínè
BIT	mèm'bé	bĭ	ŋmč:	dè'fwnì
TAK	mem'bè	bî	ŋm'ŋmĕ	gì'dʒùlí ?
BAJ	mem'bi?	ìnyénè	'ŋ'mé?	kà'fùnó
BAS	m'bímàwe	ù'vî 👘	mwè	kùfù'nú
· .				
	(148)cloud	(149) dew	(150) rain	(151) rainy
	* baŋ			season *so
LK	nè' Báŋ	bè bùrí	mà' sèp	è'sò
CK	nè' Báŋ	nè'Báŋ	màn'yép	è'sô
UK		dè'Báŋ	ban yaê :	è'sô
KIT		bìbìrí	bà'níŋ ô	è'sû
KIF	dìbá ŋ	dì 'báŋ	ban'yip	è'sô
KEN	ke'kw	'lèmbúlì	à'ná?	nsôné .
NUM	kiki	èm'bélè	à'nâ :	n'swáne
BIT	gè' kw	lìm'bílì	má'nâ :	nswónè
TAK	gè kó	nè' bá	má'nâ	n'swôné
BAJ	nèbá?		mà'nâ?	n'sònó?
BAS	'kwŋkŵ	-	mà'nâ :	màsò'nó
-				

	(152)dry	(153) year	(154) soil	(155) sand
	season *nem	*Ne	*top	*siɛp
LK	è'nèm	mí'é	ì'tòp	è'sièp
ск	è'nèm	mì'é	à'tóp	e'ſí èp
ŮK	è'nèm	mí'è	à'tóp	bì'síè?
KIT	è'nèm	mì'é	n'tô:	n'tfí:?
KIF	è'ném	¹ míè	nto:p	ŋ'kê:ŋ
KEN	kénòm	nyè	òtó?	ké'sésw?
NUM	kè'nómà	ŋmé	ð'tó?	kè'sò
BIT	kè'nómì	ŋmé	mề 'tố	kè'sà
TAK	gè'nómè	ŋmé	ù'sógè	ù'sógè
BAJ	kì 'nòmû	ŋm'ŋmé	mè'tává ?	ð'sává ?
BAS	kùnù'mó	ŋmé	mè'tá	kè'tá
	(156)stone	(157)hill *je	(158) road	(159) water
	*tay		*bi / ti	*лер
LK	n'táy	n'dzè	m'bì	mà'nèp
CK	n'táy	n'dzê:	m'bì	mànyép
UK	<i>à'táy</i>	n'dzê	m'bì	banyæ:
KIT	h 'táy	ì'dzê	m'bì	bà'níŋð
KIF	n'tá	n*dzè	m'bì ?	banyip
KEN	n'tá	ò'kwé	o'tî	à'ná?
NUM		o'kwè	otĭ	à'nă
BIT	n 'tá	mè'kwé	mè'tí	mà 'næ:
TAK	n'tá	mĕ'kwé	mè'tʃî	mà'ná
BAJ	n'tă'	mè'kwè	mè'tî	mà'nă?
BAS	n'tà		mè'tî	mà'nâ:

_ 			(162) house	(163) village
	(160) river	(161) stream	()	*tok / lo
	*nen		*ket	è'tôk
LK	mà'nù	nyén	è'kèt	è'tòk
СК	nyén	mònyén	è'két	1
UK	nyén	mò'nyén	è'két	è'tok
KIT	nyén dégû:	nyén	è'kèt	è'tok/bì /dʒìá
KIF	nyén dì'gû	mò'nyén	nyúp	bì dʒâ
KEN	nyèn	myá nyèn	'kètá	òlìŋ
NUM	n'nyè	m'bìálè	kè'pú	òlâ
BIT	nyì	m'bíàlé	kè'pú	màlì
TAK	è'bê	nyì	gè'pú	mě'lò
BAJ	e'bě ?	èmbì'álì	kò'pù	mè'lì
BAS	è'bé	bì'álè	kè'tá	mè'lw
	(164) fire *go	(165) fire	(166) smoke	(167) ash
•		wood *we		* twop
LK	ì'gó	sè'Bè	móŋ'gò	bà'twóp
СК	ŋ'gò	sè'dzwì	mòŋ'gô	bà'twớp
UK	ŋ'gó	dè'd3wê	mòŋ'gô	bà'twò ŋ'gò
KIT	ŋ'gû:	si'dzwi	mòŋ'gû:	bà'tǒ
KIF	ŋ bu. Ŋ'gŎ	sì'gwin	mò`ŋgŏ	bà'tò
KEN	'òwè	léwèn	à' mô:wè	'átwô:
NUM		lè'wê	à' mówè	à'twó
BIT	mà'wé	le'we :	à' máwê	mâ'two
	mè'wé	dè'wê	à' máwê	mâ'twò
TAK		tèy'wê	à' mówê	mà'tò
BAJ BAS	mèy'wè mó'wè	tè'wé	à' muiuwè	mé'twò
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1	(168) garbage	(169) hole	(170) calabash	(171) knife
	*niŋ	*bok	*ti / swo	*gak
	ményìŋź	m'bòk	è'tî	ì) gàk
ск	mèn'yíŋź	m'bók	è'tí	ìgák
UK	bà'nyáyntwò	m'bòk	n'tók) ngák
кіт	bìn'yíŋà	mbók	è'tútúk	ì'gáh
KIF	bìnyíŋà	mbòk	ŋ'kúmé	mòn'sô
KEN	ódʒŏ	m'bù	'lebwô	Ŋ'gá
NUM		m'bú	kè'∫úờ	ŋ'gá
BIT	ò'yɔ̃:	m'bù	kè∫wô:	ì) gá
TAK	ò'dzùá	èm'bù	gè¹∫wĵ	ŋ'gá
BAJ		m'bù	kùsô	ŋ'gá ?
BAS		ìn'bò	kè'∫wô:	ŋ'gá ?
· · · · · · · · · · · · · · · · · · ·	(172)string	(173) spear	(174) arrow	(175) war
	*nik	*-koŋ	*ket	*-Nu / bi
LK	nìk	nè'kòŋ	ŋ'kèt	ne'nù
CK	ník	nèkòŋ	<u>à'két</u>	dè'nù
UK	nìk	dè'kòŋ	Ŋ'kát	de'nyû
KIT	ŋ'kwét	dì 'kóŋ	ŋ'kát	è'd3â
KIF	nyik	dì'kòŋ		dî'nù
KEN	ò'ní	lé'koŋ	ŋ'kèt	bì ?
	ò'nĭ '?	lè'kó	ò'wérákò	bì
BIT	n'kwí?	lè'kò		bì
TAK	mè'nĭ	nè'kò		bè
BAJ	mè'ní	nè'kwô	fîmbî	bè
BAS	mè'nì	nè'kwô:	fim'bí	

	en de la companya de	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	(176) clothes	(177)	(178) net	(179) animal
	*dɛn	casting net	*si /sa	*ла
LK	à'dèn	m'bùndzá	á'sî	ற' றà
СК	n'dèn	mbúndza	á'sì	nyâ
UK	à'dén	m'búndza	á'sì	nyà
кіт	à'dén	tà'să:	á'sĩ	nyáù
KIF	n'dén	m'búndza	dî'wù	nyà
κεν	à'dèn	mbúndza		ò'nyâ
NUM	n'dĕ	mbúndzá	làn'să:	ò'nyà
BIT	ndě:	mbúndzá	ain'sa	mènyô
TAK	à'dê	n'tófò	dán'sà	menyá
BAJ	n'dě ?	à'tífú	kà'sá	mànyá
BAS	n'dé	bùn'dʒá	à'twà	mènyà
	(180) dog	(181) cle-	(181) leopard	(183) goat
	*mu / mie	phant *suk	*kwo	*Nen
LK	mú	n'sók	ŋ'kwò	mén
СК	mú	ň'sók	ŋ'kwô	mén
UK	mũ	à'sòk	ŋ'kwò	mén
KIT	mú	à'sùk	ŋ'kwó	mén
KIF	mú	n'sùk	ŋ'kwà	mén
KEN	'ámíè	ó'sùk	ò' kwò	mén
NUM	'amíè	o'suk	òkwà'ú	ŋmè
BIT	'mámíè	mè'∫ù ?	mò'kwólàyô	ŋmè
TAK	'mámiè	mè'∫ù	ne'sw	ŋm'ŋmè
 BAJ	'mæmiè	mè'∫ù	ne'sw	ŋmʾŋme
BAS	mæ'me	mè'∫ù:	mèk'pémé	ma'mwé
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	(184) bird	(185) tor-	(186) snake	(187) fish
	*nen	toise *wen	*ло	*si
lk	sè nèn	nè'wèn	`ຸດ'ູຖວິ	n'sì
СК	sè'nèn	dè'wèn	à'yó	n'sî
ÜK	dê 'nên	nê'wên	à'nyô	n'sì
KIT	sì 'nénè	dì'wén	nyó	n'sì
KIF	sì'nénè	dì'wèn	nyò	n'sì
KEN	è'nć	'ógwèn	nyô	ð'sŭ
NUM	è'né	ò'wé	à'yúð	ò'sû
BIT	è'nć	mò'wî	'míð	mùſŭ:
TAK	è'nùónè	me'wè	míð	me'ſŭ
BAJ	fì'né	mè'gwê	míò	me'ĵŭ
BAS	fê'nê	mè'gwê	míò	kè'ʃwâ
				· · · · · · · · · · · · · · · · · · ·
	(188) lice	(189) egg	(190) tree	(191) bark
· · ·	*bini	*ci	* nok	
LK	bì'nì	nè'tʃì	è'nòk	n'sèm è'nòk
СК	bí'nì	nè'tjî	è'nók	ŋ'kwúp è'nók
UK	bí'nì	તકે (દો	è'nók	ý'kwô è'nók
KIT	bì'nî	dì'tʃi	è'nók	ŋ'kúò è'nók
KIF	bè'nè	dì'ki	è'nok	ỳ'kwúp è'nók
KEN	bìn	'tékwat∫î	ké 'nô?	ókò? ké' nó?
NUM		è' kwatfî	kɛʾnô?	ò'kờ?
BIT	bì	lè' kwatsî	kè'nô:	mò'kò rè'nò'
TAK	bè	nè' kwatfî	gɛ'nŏ	gè'kwô ge"nô
ВАЈ	bè			
BAS	ò'víè	nù'kwút∫ù	kê'nw ò :	kò'kwô
				kènwô

	(192) leaf *je	(193) seed	(194) root	(195) grass
		*рєт	*kaŋ	*tako
LK	è'yé	sè'pèm	ŋ'kàŋ	'tákò
CK	è'dzé:	sè pàm	ŋ'káŋ	tá'kò
UK	è'dze	dè'pèm	ŋ'káŋ	'tákò
KIT	è'dʒí :	sè'pém	à'kàŋ	à'káŋmpé
KIF	è'dʒč	si' pém	ŋ'káŋ	àŋ'káŋàmpê
KEN	'gíà	ŋìn'gbè	ŋ'káŋ	'lámbíà
NUM	gì'à	èm'pó	o'ka	bí'à
BIT	'gfà	m'bì:	mè'tò	'àmbíà gíà
TAK	'dzià	m'bě	mè'kà	dàm' bíànd3á
BAJ				
BAS	ì'yà	kòm'pô:	mè'ká	'támbì'áyà
				in a second
	(196) salt	(197) fat	(198) oil	(199) old
	*gaŋ	* fo	*wet	*kok
LK	ŋ'gáŋ	bà fó	bà'wet	bɛ'kòk ^h
ск	դ` քանդ	bà'fô	bà'wðt	bèkòk
UK	ŋ'gáŋ	bà'fò	bà'wét	è'sì
KIT	ŋ'gáŋ	bà'fóù	bà'wɛt	bì'kók
KIF	ŋ'gaŋ	bà'fô	bà'wát	è'kók
KEN	ò'raŋ	á'fòm	à' wí ?	'òkwò
NUM	ò'rá	à' fò	a'wé	ò'kò
BIT	mò'à	mà'fá	mà'wí	mè'kŭ
TAK	mè'gá	mà'fā	mà'wê	ò'kŏ
BAJ				
BAS	mè'râ:	mà'fwâ:	mà'wê:	ù'kwò

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			·	
	(200) new	(201) deep	(202) big	(203) tall
	*ko / kie		*cik	*sap
LK	è'kôkò	nè'pî	bè`tʃík	bè'sáp
CK	è'kò	è'sà	è't∫ík	á'sàp
UK	è'kô ε'k ô	è'tsémè	e'tjík	è'sáp
KIT	è'kò	dzêm	è'gû:	bì'síè
KIF	è'kíŋ	à'sâp	à'tʃík	à'sâp
KEN	'kékíè		kéŋá?á	kèsá
NUM	ò'kíè	è'gúmù	keŋâ:	ò'sa :
BIT	è'kíè	à'gúmò	àŋ'ŋŏ	æ'só
TAK	ò'ké	'gégòmé	kpă	gé'tìé
BAJ	ingen sternen. I∎			
BAS	mè'kíè	nə'nû:	kek' pá	à'sà
	(204) small	(205) wide	(206) narrow	(207) long
LK	mán'dù	à'néné mwet	'níŋò níŋò	bè'sáp
СК	m'bwŋ	à't∫ík	à'gípsì	è'sàp
UK	è'gísì	è't∫ík	è'gípsì	è'sáp
KIT	m'bíŋ	à'gû:	à'tʃí ۲	bì'síè
KIF	'níŋà' níŋà	à'tʃík	a' níŋèrí	à'sâp
KEN	némè' némè /	kèt∫ık	kètĵó	kèsá
	ké't∫ò			
NUM	kè'tʃò	ke'sà	klí'klí	kè'sà
віт	kè'tʃó	kì'nàlé	à'tʃ5?	čs'ś
ТАК	'ŋwnèŋwnè/kó	ò'nálì	má'málè	gè'tíè
BAJ				
BAS	à'lémbw	·		
	f ¹	} ———-	· .	1

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JAKA AN

	(208) short	(205)round	(206) heavy	(207) full
	*biŋ		*лиор	*jwi
LK	kèm'béŋ	'xábòrì	mé' nwàp	é'dzwì
CK	m'bíŋ	è'rábèrì	è'núòp	è'dzwĭ :
UK	ìn'bíŋ	è'rábèrf	è'nyû:	è'dʒwî
KIT	ìn big	gíŋè'diŋ	bì'núờ	dʒwì
KIF	m'biŋ	gábèrì	è'nup	à'gwí
KEN	m'bŵŋ	'gwŋəliŋ	'kélúnò	'kédzî
NUM	kè'gú	gíŋə'lé	ke'nô:	è'gbé
BIT	m'bí		kè'no:	kìg'bî
TAK	m'bò	gè'pwélì	gè'nĴ	gég'bê
BAJ	· · · · ·			·
BAS		ké'nò	'kélilè	
· ·				
·	(212) dry	(213) rotten	(214) good	(215) good
	*gwo	*po	(taste) *ri	(character)
LK	é³wð	é'pò	è'rŵ	è'rŵ
СК	è'gwô	è'pô	ε'rŵ	é'rŵ
UK	è'gwò	čq'š	è'rw	é'rw
KIT	à'gwáờ	dê 'páô:	è'r í	è'rénkì
KIF	è'gwám	čq'á	è'r í	è'rí
κεν	'kégòm	'képwá	'kégŵ	'kélìém
NUM	kè'rs	képwúà	kê'lô	kê'lô
BIT	'kìó	kì'pwé	kì'g í à	ki'lí ?
TAK	gè'wá	gw'pìánè	gŵ'gŝ	gè'lòmé
BAJ	#**#****			· · · · · · · · · · · · · · · · · · ·
BAS				· ·

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	1	· · · · ·		
	(216) bad	(217) bad	(218) cold	(219) hot
	(taste) *bep	(character)	*kwen	*soŋ
LK	è'bép	m'bím'bí	è'kwén	è'sóŋ
СК	è'bígð é'rŵ	à'bèp	ε'kwèn	é'sòŋ
UK	è'bígà è'rw	è'bép	e'kwén	ε'sóŋ
кіт	è'bép	è'bép	kwèn	sòŋ
KIF	ε'bερ	è'bép	m'gbwép	è'sóŋ
KEN	ké'bŵ	ké'bŵ	kèkwèn	'két∫ùŋ
NUM	kè'bì	kê'bi	kè'finé	òsóŋ'gò
BIT	kì'bí	à'bí / kè' tʃĩ	kì'kwínè	kì' t∫uŋò
TAK	gè'lòmê	'ălòmê	gè'fwnì	gè'sô
BAJ				
BAS				
		-	· · · · · · · · · · · · · · · · · · ·	
	(220) hunger	(221) sharp	(222) sad	(223) black
1997 - 19	*say			*pio
LK	n`sày	é'tʃàp	bè'běn'tì	'píò
ĊK	n'sây	è't∫áp	à'pú bà'nák	pí'ò
UK	n'sày	é'tʃa	bà'sèmè	'píò
KIT	n`sây	tf3:	dê'bî	'píà
KIF	n'sá	é't∫ă:p	h'tín'sô	è'gérè
KEN	nò'sá	ké⁺t∫â	'ásèné	'píòm
NUM	'ò'sâ:	à'tsâ	mí'ègì	ò'gàrí
BIT	mě'sá	kì`t∫ô:	ag'bê	à'glí
TAK	mè'sá	è'tíà	mè'sùé	mè'gí lí
BAJ				
BAS	· · · · ·)	· · · · · · · · · · · · · · · · · · ·	ógẁ'lẃ
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	(224) white	(225) red		
÷	* рер	*cu		
LK	`pépép	tfù		
СК	pép'pèp	tʃù		
ŪK –	pé'pep	tfù		
КIТ	bìrćì	tfù		
KIF	pèrè'rí	t∫ù		
KEN	'pàp ^h pàp	tſù		
NUM	pù	tfù*tfù		
BIT	' քմքմ	kì gélè		
TAK	'pòpò	mè'gélè		
BAT				
BAS	` pùpù	égð'lw		

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