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**FIRST STEPS TOWARD PROTO-MABA\***

(with a historical note by John E. Lavers)

John Edgar

*1. Introduction*

The languages of the Maba group, spoken in eastern Chad, western Sudan and north-eastern C.A.R., are classified by Greenberg (1963) as part of the Nilo-Saharan phylum, and by Tucker and Bryan (1956) as an independent language group. There are four members of this group for which there are available adequate amounts of lexical data to allow a first attempt at phonological reconstruction of the proto-language: Maba, Masalit, Aiki (listed as ‘Runga’ in older sources), and Kibet. A total of 242 items are given in Appendix 1, most of which have equivalents in at least three of these languages. These have been selected (on the grounds of being cognates) from longer lists which have been compiled in the Maba Group Lexicon (Edgar 1991).

There are not enough data available at present to do other than speculate as to the relative position of most other members of the group listed in Edgar (1991). Kodoi is certainly a dialect of Maba (and is referred to as the ‘original speech’ by the Maba themselves). The Muru and Dagal data are taken from Nougayrol (1986) and Tourenq (1913), and from these they would seem to be marginally nearer Kibet than Aiki. The only published linguistic data available for Karanga, Baxat and Marfa is Le Rouvreur’s short seven item list (1962: 168) which includes two interesting semantically ‘basic’ items – ‘fire’ and ‘water’ – which may provide clues to the phonological interrelationships of the group (Tourenq’s ‘ou’ replaced with ‘u’, my proto-forms):

(1)	‘fire’ (< *n s -k)	‘water’ (< *ta-k, *aji) <sup>1</sup>
Aiki	n` s` k	tàk
Kibet	n` s` k	ta
Muru	nussuk	ta
Dagal	nussuk	taa
Masalit	wàasû	sàa
Marfa	wasik	sa
Maba	wàsik	anjii
Kodoi	wàsík	anjí

\* Editor’s note: John Edgar submitted this paper to *African Languages and Cultures* several weeks before his death in April 1991, and I am grateful to Ekkehard Wolff for valuable comments on this initial draft. For obvious reasons, it has not been possible to incorporate all the suggestions in the final version, and some interpretive and empirical matters remain unresolved. I would also like to thank John Lavers for contributing the historical note which follows the main article [PJJ].

<sup>1</sup> The -k in these two suggested proto-forms is a singulative/definitive suffix, not part of the lexical root.

Karanga	itak	aji
Baxat	itak	aji

In neither case do the Mimi equivalents bear an unequivocal resemblance to any one of the sub-groups – it seems clear from the limited amount of data available that the Mimi lists of Decorse (in Gaudefroy-Demombynes 1906) belong to a Maba-group language, though this needs further investigation. The Mimi lists of Nachtigal (Lukas and Völkers 1938/39) have been renamed Biltine and reclassified as part of the Fur group. As far as I know, Jungraithmayr's (1971) Mimi remains a mystery. The sub-groups for proto-Maba are as follows:

(2)	SOUTH	CENTRAL	NORTH
	Kibet (Kb)	Masalit (Ms)	Karanga
	Aiki (Ak)	Marfa	Baxat
	Dagal		Maba (Mb)
	Mura		Kodoi
			Mimi (?)

The distribution in (3) below shows that the three linguistic divisions correspond roughly to the geographical divisions north/central/south; whether or not Karanga and Baxat form a separate division from Maba and Kodoi must await further data. Nougayrol (1986: 40) suggests a similar outline division of Maba, Karanga, Masalit, Aiki-Kibet; and Tucker and Bryan 1956: 56) place Maba, Karanga and Masalit in the 'isolated' language group Maba, but Kibet in the Tama group 'since it appears to be related to MARARIT, according to both Lukas and van Bulck'.

(3)	Mimi
	Uled Jema <sup>2</sup>
	Kondongo
	Kodoi
	Maba
	Kashemere
	Marfa
	Karanga
	Baxat
	Masalit
	Muru
	Dagal
	Kibet
	Aiki

That the Maba languages *do* form a genetic group distinct from their neighbours is demonstrated by the existence of similar morphemes and lexemes in all the languages. This is illustrated best by their characteristic verb morphology. Verb forms comprise three obligatory morphemes: a subject prefix, a lexical base, and a tense/aspect/mood suffix. The clinching piece of

<sup>2</sup> No linguistic data are available for the Uled Jema, Kondongo and Kashmere units/tribal groupings.

evidence is the unusual and distinctive characteristic of allomorphy exhibited by the 2sg prefix. In all of the languages the 2sg prefix varies from verb to verb according to no presently discernible phonological conditions or correlation with semantic categories. The sets of 2sg prefix allomorphs are set out in (4) below (D represents the deletion of the initial vowel of the base (according to my analysis all bases are vowel- or glide-initial), accompanied by the voicing of certain unvoiced consonants, given in parentheses).<sup>3</sup>

(4) Aiki					g	j	D (s>j; t>d)
Kibet	d				g	j	D
Maba	d	n	l		g	z	D (s>z; t>d; k>g; p/f>v/b)
Masalit	d	n	l	r	g	j	D (s>j; c>j; f>b)

In a comparison of 108 basic lexemes, cognates were observed between pairs of languages as follows:<sup>4</sup> Aiki-Kibet 95/108 (see Nougayrol 98/112); Maba-Masalit 63/108; Masalit-Aiki 60/108; Maba-Aiki 65/108; Maba-Kibet 68/108 (see Nougayrol 49/101 and 11/101); Masalit-Kibet 60/108. While Aiki and Kibet are clearly closer to one another than they are to Maba and Masalit, these figures suggest an approximate 'lexical equidistance' between Maba (to the west), Masalit (to the east) and Aiki-Kibet (to the south).

Although this comparison of the four members of the Maba group for which there are available data gives an idea of the main trends (the exceptions noted are all diverse, where a pattern is apparent it is noted), more detailed comparisons of pairs of languages should produce more revealing information about the relationships of the languages to each other.

<sup>3</sup> See Schadeberg (1981) and Wolff (1989) for competing analyses. The most common 2sg allomorphs in Maba, Masalit and Kibet are D g j/z. The 2sg allomorphs of cognate verbs do not coincide in all cases, e.g.,

	'scratch' verb base	2sg	'bury' verb base	2sg
Maba			ims	d
Masalit	iŋosij		imis	g
Aiki	iñàsón		g	
Kibet	iñasen		g	

<sup>4</sup> Based on the comparative list of 115 Kibet, Aiki and Maba items given by Nougayrol (1986) to which I have added Masalit, and which I have reduced to 108 by cutting out five items for which there are no available equivalents in *all* four languages: 'cut (with knife)', 'swell', 'faggot', 'hearth', 'navel', 'rain (= water)', and 'war (= spear)'.

## 2. Languages and sources

The sources of the language data are: Maba (Trenga 1947; Lukas 1952, 1953; Doornbos nd; Edgar nd); Masalit (Doornbos nd; Edgar nd; Stevenson nd); Aiki (Doornbos nd; Nougayrol nd); Kibet (Doornbos nd; Nougayrol nd). These are all collected together (with other, older sources) in Edgar (1991) from which the corpus in Appendix 1 is drawn.

## 3. Phonemes and proto-consonants

There are some general trends discernible, but there are many irregularities which are inexplicable if one adheres strictly to the ‘regularist postulate’ (Hall 1964) that Dyen (1969: 499) calls ‘the law of the regularity of phonetic change’. It is more helpful to consider Wang’s statement (1969: 9) that ‘phonological change may be implemented in a manner that is phonetically abrupt but lexically gradual. As the change diffuses across the lexicon, it might not reach all the morphemes to which it is applicable.’

Despite many apparent irregularities, there are enough recurrent correspondences to allow the reconstruction of the following consonants in proto-Maba:

### (5) Maba proto-consonants

Plosives	b	t	d	k	g
Liquids		r	l <sup>1</sup>	l	
Fricatives	f	s	s <sup>1</sup>	z/ʃ/j	
Nasals	m	n	ɲ		ŋ
Pre-nasalised stops	mb	nd			ŋg
Glides	w		y		

### (6) Reflexes of proto-Maba phonemes in Maba, Masalit, Aiki and Kibet

Proto-Maba	*b	*m	*f	*mb	*w	*t	*d	*s	*s <sup>1</sup>	*l <sup>1</sup>	*r
Maba	b	m	f	mb	w	t	d	s	s	l	r
Masalit	b	m	f	mb	w	t	d	s	s	r	r
Aiki	b	m	p	mb	w	t	d	s	t	y	r
Kibet	b	m	f	mb	w	t	d	s	t	l	r
Proto-Maba	*n	*nd	*j	*ɲ	*y	*k	*g	*ŋ	*ŋg		
Maba	n	nd	z/s	ɲ	y	k	g	ŋ	ŋg		
Masalit	n	nd	j	ɲ	y	k	g	ŋ	ŋg		
Aiki	n	nd	j	ɲ	y	k	g	ŋ	ŋg		
Kibet	n	nd	j	ɲ	y	k	g	ŋ	ŋg		

#### Notes:

1. This is a first tentative reconstruction giving the main trends and exceptions. It does not attempt to explain all the phonemic and phonetic features of the phonologies of all the current languages in detail, e.g. the occurrence of [x] in Maba and Masalit and [z] in Masalit as extraneous sounds – both adoptions from Arabic – and the presence of retroflex /t/ and /d/ in Maba.

2. Glottal stop only occurs non-phonemically in initial position (before vowels) in Maba and Masalit.
3. Prenasalised stops are included as they illustrate what appears to be a general rule in all the languages (and hence probably in proto-Maba), that prenasalisation is restricted to voiced obstruents – there are examples of /*nj*/ as well as the nasal stops (e.g. ‘shadow’, 170). Whether or not there is a homorganic restriction rule requires further investigation as some of the sources are not clear in their orthographies as to the phonetic value of the nasal element of prenasalised ‘clusters’.
4. /\**s*<sup>1</sup>/ represents a phoneme of proto-Maba that has given rise to /*s*/ in Maba and Masalit and to /*ʈ*/ in Aiki-Kibet; as may be seen from the lists of examples given below it is quite distinct from proto-Maba /\**s*/ and /\**ʈ*/ and does not form a complementary distribution with either.
5. /\**l*<sup>1</sup>/ represents a phoneme of proto-Maba that has given rise to /*l*/ in Maba and Kibet, /*y*/ in Aiki and /*r*/ in Masalit; this is the major pattern, there is a minor pattern also in which /*l*/ occurs in all the current languages.

### 3.1. Sound correspondences and putative proto-Maba consonants

There are many common correspondences, though none is without exception and many form minor correspondence groups. Final consonants are less common than final vowels in Masalit (in a ratio of about 4:1) and appear to be subject to as yet unanalysed restrictions in all the languages. Symbols: + = Arabic origin; I = initial; M = medial; F = final; ? = dubious; § = correspondence previously noted by Nougayrol (1986).

#### 3.1.1. Labial

(7)	Maba	Masalit	Aiki	Kibet	Examples
* <i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	I: 83, 173, 227 M: 106, 148, 180, 190 (exceptions: 11, 23, 67, 71, 95+, 99, 114, 162)
* <i>f</i>	<i>f</i>	( <i>f</i> )	<i>p</i> §	<i>f</i> §	I: 116, 142+, 232 M: 145+
	(Ø)	<i>f</i>	<i>p</i>	<i>f</i>	I: 19)
	<i>f</i>	( <i>f</i> )	<i>w</i>	( <i>w</i> )	M: 73, 84

Although there is not enough data here to allow a detailed analysis (e.g. for a complementary distribution), *f*/f/*p*/*f* seems to be the major pattern, and *f*/f/*w*/*w* the minor one.

(8)	Maba	Masalit	Aiki	Kibet	Examples
* <i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	I: 110, 111, 126, 132, 135, 151, 169, 178, 202, 230, 234, 241 M: 9, 12, 61, 63, 93, 94, 100, 102, 108, 127, 134, 158, 161, 179, 187, 217, 235 F: 217 (exceptions: 33, 46, 53, 54, 71, 102, 123, 224)

*mb	mb	mb	mb	mb	I: 222 M: 113, 185, 199
*w	w	w	w	w	I: 208, 221 M: 5, 101 (exceptions: 64, 129, 182)

### 3.1.2. Dental-alveolar

(9)	Maba	Masalit	Aiki	Kibet	Examples
*t	t	t	t	t	I: 66, 84, 96, 136, 140, 160, 171, 172 M: 42, 116, 138, 207 (exceptions: 2, 102, 218)
*d	d	d	d	d	I: 39, 148 M: 5, 6, 80, 126, 131, 198, 223, 239 (exceptions: 4, 27, 53, 107, 122, 124, 137)
*s	s	s	s	s	I: 149, 179, 190, 203, 220, 221 M: 36, 56, 60, 64, 166, 224, 236
but:	s	Ø	Ø	Ø	I: 177+
	s	Ø			M: 213
	s	Ø	s	s	M: 50, 63
	(y)	y	s	s	M: 51, 55
	Ø	Ø	s	s	M: 169, 212 (morphemic deletions?)
	z	z	s		I: 72+
*s <sup>1</sup>	s	s	t/d	t	I: 152, 164 M: 70, 103, 188, 192, 229

As there is no obvious complementary distribution to explain the regular distribution of alveolar fricatives in Maba and Masalit reflexes, and stops in the Aiki and Kibet reflexes, I suggest a voiceless alveolar proto-phoneme /\*s<sup>1</sup>/ of a manner yet to be determined. There are a number of other examples which are of the same general pattern:

(10)	Maba	Masalit	Aiki	Kibet	Examples
		c	d		I: 37
	j	(c)	t	t	M: 98
	s	f	t	t	M: 17
	f	c	t	t	M: 216
	f	(rc)	d	d	M: 211
	s	c	d	t	M: 104
but:	t	t	s	s	M: 177+
(11)	Maba	Masalit	Aiki	Kibet	Examples
*n	n	n	n	n	I: 49 M: 5, 25, 133, 140, 168, 219 F: 149 (exceptions: 54, 64, 90, 169, 214)
*nd	nd	nd	nd	nd	I: 20 M: 8, 28, 75, 78, 129, 130 (exceptions: 119, 169, 226)
*r	r	r	r	r	I: 82, 220

					M: 34, 40, 60, 62, 83, 85, 111, 117, 139, 142+, 156, 165, 189, 191, 193, 199, 202, 221
					F: 25, 26, 66, 67, 73, 116, 173 (exceptions: 45, 61, 63, 222 (the last three involve deletion of /r/ in one or more of the languages))
*l	l	l	l	l	I: 89
					M: 59, 145+, 201
					F: 198+
*l <sup>1</sup>	l	r	y§	l§	I: 81
					M: 15, 30, 35, 47, 88, 89, 107, 126, 138, 143, 157, 162, 175, 181, 184, 213, 225, 231, 233
					F: 144

l/r/y/l is clearly the major pattern here (at least in medial position). There is insufficient evidence to say whether there is a complementary distribution between the reflexes of /\*l/ and /\*l<sup>1</sup>/, but it seems likely that there are in fact only two liquid proto-phonemes: \*r and \*l<sup>1</sup>. The numerous irregularities are set out below:

(12)	Maba	Masalit	Aiki	Kibet	Examples
	l	l	Ø	l	F: 2
	l	Ø	Ø/y	l	F: 70, 177, 212
	r	r	y §	l §	M: 19
	l	r	l §	y §	M: 204
	l	r	r		M: 41
	r	r	l §	y/Ø §	M: 95

Although insufficient in themselves as evidence for a voiced alveolar plosive proto-phoneme (a possible counterpart to \*s<sup>1</sup>?), the irregular examples set out below present some interesting clues to follow up when more data become available:

(13)	*?	r	r	nd		M: 108
		r	rd	d	d	M: 97
		d	r			M: 141
		l	l	d		M: 163
		l	d	d	d	I: 18
		l		d	d	M: 153
		l	ñ		d	I: 59

3.1.3. Palatal and palatal-alveolar

(14)	Maba	Masalit	Aiki	Kibet	Examples
*j?	j	j	j	j	I: 78
					M: 86 (see *t, *s)
	c	j	c		I: 13, 32+
	s	j	j	j	I: 115
	z	j	j	j	I: 2sg verb prefix allomorph



*f?	ɸ	ɸ	s	s	M: 16
	ɸ	c	s	s	M: 234
	j	c	s		M: 214
	c		s		M: 209
	k	c	y	ɸ	M: 29?
		y	j	ɸ	M: 194

As there is insufficient evidence available and no obvious pattern for the distribution of palatal and palatal-alveolar fricatives, the existence of more than one proto-phoneme here remains very tentative.

(15)	Maba	Masalit	Aiki	Kibet	Examples
	*ɳ	ɳ	ɳ	ɳ	I: 61, 121, 184, 206
					M: 52, 65, 68, 74, 91, 176, 237
					(exceptions: 1, 24, 76, 93, 114, 166, 191, 200; ɳ = ɳ/ɳy)
	*y	y	y	y	I: 125
					M: 57 77 160
					(exceptions: 19, 55)

### 3.1.4. *Velar*

(16)	Maba	Masalit	Aiki	Kibet	Examples
	*k	k	k	k	I: 1, 12, 15, 30, 31, 33, 35, 38, 51, 53, 56, 62, 65, 80, 85, 86, 88, 91, 93, 97, 113, 123, 124, 125, 128, 153, 155, 157, 174, 205, 212
					M: 37, 107, 228
					F: 207
					(exceptions: 9, 29, 32+, 52?, 72+, 94, 142+)

There are some examples of initial velar deletion from Maba/Masalit to Aiki/Kibet:

(17)	Ø	k/g	Ø	Ø	I: 102, 204, 217
	g	k	Ø	Ø	I: 144
(but:	Ø	Ø	k	k	I: 131)
*g	g	g	(g)	(g)	I: 90, 117, 199
					M: 40, 92, 210
					(exceptions: 3, 10)
(18)	Maba	Masalit	Aiki	Kibet	Examples
	*ŋ	ŋ	ŋ (g)	ŋ	M: 54, 156, 227
					F: 121
					(exceptions: 68, 71, 96, 168, 201, 240)
	*ŋg	ŋg	ŋg	ŋg	M: 24, 27, 148, 220
					F: 141, 146
					(exceptions: 2, 50, 129, 149, 150)

### 3.1.5. Vowels

As mentioned above, space does not permit a thorough overview of vowels; however there is an interesting occurrence/non-occurrence of initial /a/ in some examples (possibly morpheme deletion):

(19)	Maba	Masalit	Aiki	Kibet	Examples
*a	a	a	a	a	I: 5, 24, 40, 68, 70, 98+, 100, 118, 120?, 198+, 200, 211, 233
	Ø	Ø	a	a	I: 117, 127, 154, 203, 217
	a/ɔ	a	Ø	Ø	I: 60+, 108?

### 4. Nominal number suffixes

The arrays of nominal singular/plural suffixes is summarised as follows:

(20) Maba		Masalit		Aiki		Kibet	
S	P	S	P	S	P	S	P
Ø	Ø	Ø	Ø	Ø		Ø	
V	i/e	V	V	V	V	V	V
	tu, tiri	di, ti	di, ta	(n)di	t, it, tit ti, dɔ	di	dik, duk, dɔ tuk, tik
k, ak, lok, ik, dakal		ko, gi, ŋgi		k	(ke)	k	gɔ, ik, k
	sɛ, si, kasi, gisi, enji	(V)s, sɪ, jɛ, yu					
ŋ, uŋ, suŋ	ŋi, ni	ij, ldiŋ	ŋ				
		rV r(V), kar, ter, dur, cor					

This is a brief overview and it is discussed further in a comparative context in section 5. It also ignores the role of tone differences which are significant in nominal number distinction in the Maba languages, e.g. (Aiki) mündú (pl mündú) ‘nose’.

### 5. The Tama and Maba groups compared

It is of interest to make some comparisons between the neighbouring Tama and Maba language groups. They are both classified as Nilo-Saharan but are ascribed to different branches – Maba as an ‘independent’ branch, Tama as part of East Sudanic.

#### 5.1. Nominal number suffixes

In both Tama and Maba groups, nominal number distinction is marked by a limited number of suffixes; some, e.g. in Masalit, may be distinguished in terms of tone alone, but for simplicity’s sake I restrict this description to segmental suffixes. Each lexeme has a unique pair of S/P suffixes which appear to be unpredictable according to any synchronic phonological rules. Some semantically related groups of words may share the same pattern of S/P

suffixes (see the colours below) but, so far, larger semantic patterns are not discernible. It is worth noting, however, that the basic principle is the same for both the Tama and Maba groups (and other Nilo-Saharan languages as far as I am aware), and that the sets of S/P suffixes are rather limited. I set out these arrays below, which include the vast majority of suffixes, though there are exceptions to the patterning – I feel it is more important at this stage to map out the general shape. Parentheses are used where a suffix does not occur in all the languages of the group.

(21)	Tama		Maba		Suffix consists of or includes:
	S	P	S	P	
	Ø	(Ø)	Ø	(Ø)	zero morpheme
	V	V	V	V	vowel
	T	(T)	(T)	T	alveolar plosive
	(N)	N	(N)	N	alveolar/velar nasal
				(S)	voiceless sibilants and palatal fricatives: /s, ʃ, ʒ, ç/
			(R)	(R)	liquids: /r/, rarely /l/
	(K)	K	K	(K)	velar plosive

It is interesting to note the suffixes that are common to all the members of each group (i.e. not in parentheses), as this array is yet more restricted and may give some idea of how the complex present-day situation came about from relatively simple origins. However, this is speculation and needs further investigation. Suffixes common to all members in each group are:

(22)		S	P
	Tama	Ø V T	V N K
	Maba	Ø V T	V N T

What is clear, however, is that in both groups there may be a nasal element in the plural, and there appears to be a T/K contrast (S/P Tama, P/S in Maba). It would be interesting to investigate other Nilo-Saharan languages to find out to what extent these features are shared by them.

5.2. Colours

In both the Tama and Maba groups there are four ‘basic’ colours: white, red/brown, black/blue, green/cyan. There are other colours in the lexicons but their colour aspect is a secondary lexical function, e.g. ‘grey’ = ‘smoke’, or they may be adoptives, e.g. ‘yellow’ < Arabic). The comparison of the Tama and Maba groups is interesting in that, although it is evident that there is no (close) genetic relationship between the two groups, the underlying principle of their arrangements is the same:

(23)	Maba	Masalit	P-Maba	P-Tama	Tama	Miisiirii	Ibiri
white	fà-fâr-àk	ji-sa	far-	cen-	èk	cenik	ék
red	kù-küy-àk	ko-ngi	kU-	ar-	àřák	arAk	ırAk
black	lù-lüy-òk	dú-ngi	dU-	kid-	kirik	kitik	kidik

green dri-dri-yak ráa-ngi ra- firn- iřni fiřni juk

*Note:* Masalit ji-sa is related to jii 'milk'; Ibiri ék pl éhèn, i.e. the underlying singular is éh-ek.

## 6. Summary

As noted above, the three languages Maba, Masalit and Aiki-Kibet are equidistant from one another lexically. Phonologically the situation is not so clear, and the following differences have been observed:

- (24) Maba and Kibet /l/ = Masalit /r/ = Aiki /y/ <? \*l<sup>1</sup>  
 Aiki /p/ = Maba, Masalit and Kibet /f/ < \*f  
 Aiki-Kibet /t/ = Maba and Masalit /s/ < \*s<sup>1</sup>  
 Aiki-Kibet /d/ = Maba and Masalit /l, r/ < \*?

It appears that Maba and Masalit are phonologically closer to each other than either is to Aiki-Kibet. This is also apparent from a comparison of the ranges of 2sg prefix allomorphs of Maba.

## A historical note

John E. Lavers

This was the last paper written by John Edgar. His death sadly leaves the study of the languages of the Tchad-Sudan borderlands without an obvious successor. This note attempts to bring further relevant material to the attention of the interested reader, material that Edgar himself would have incorporated if it had been brought to his attention in time.

Maba and the related languages covered in this paper are and were spoken by peoples linked in various ways with the Sultanate of Wadai. Maba was spoken by the core peoples, the so-called royal tribes, and the others by subordinate polities. The sultanate was founded in the 1630s and quickly established authority over its smaller neighbours such as the Daju state of Dar Sila to the south, and apparently shared authority with its eastern neighbour, Dar Fur, over Dar Tama, Dar Gimr and others. According to tradition the inhabitants of all these states were subject to the Tunjur in the sixteenth century, a people who now speak Arabic and who are found scattered from Dar Fur in the east to Borno in the west. It is this Tunjur state that was referred to by Giovanni Anania (1582: 349-50):

Then comes Uri, a very important place, whose Prince is called Nina, that is to say Emperor. The neighbouring kingdoms that obey him are Aule, Zurla... Sagava (Zaghawa), Memmi (Mimi), Musalat (Masalit), Morga and Dagio (Daju).

Uri is the former capital of this state situated in Dar Fur. It should be noted that several of the kingdoms are named in Edgar's study and that one of them – Mimi – causes problems of identification. The foregoing underlines the antiquity of these peoples as identifiable groups, but without specifying language. The earliest linguistic evidence known to me from the area dates from the first decade of the nineteenth century. There are two sources, and both contain short vocabularies of Maba. The first was collected by the young German traveller and linguist, Ulrich Jasper Seetzen (1810: 137-155), from 'Mobba' pilgrims passing through Cairo in 1808, and consists of the names of various natural objects and verses of a song. The second was collected in Wadai itself about the same period by Muhammad b. Umar al-Tunisi (1851: 245-252). In this instance there is a note on the languages of Wadai with a short vocabulary and a few phrases. Elsewhere he incorporates information on the peoples and polities with references to Macalyt (Masalit) and Mymeh (Mimi). Undoubtedly more material remains to be discovered in the archives and libraries of the wider world.

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## APPENDIX 1: Maba group cognates and equivalents

*Abbreviations and conventions:* {-}: plural; -/=: lexical alternatives; ---: verb bases (the shortest alternant is given, whether base 1 or base 2); -\*: Arabic; Fl: Fulfulde; Sn: Sango; Fu: Fur.

<i>gloss</i>	<i>Maba</i>	<i>Masalit</i>	<i>Aiki</i>	<i>Kibet</i>
1 abdomen	kùñi-k	kunyi	kúi	
2 above	tál	dól	tànga	tàngal
3 accusative	gù	-ko	ga	
4 all	dum*	támà*	tum*	du*
5 ashes	àwún	àwén-di	àw`n-dí	awun-di
6 back	der-iŋ/dahr*	sar-gi(-ko)*	sidá	siida
7 bad	nemere-k tan	biye	cén*	jar san
8 be	-ind-	-ind-	-ènd-	
9 beard	kamur	kàmàri	gàmsi {gàmsù}	
10 because	ká	gi-taŋanim	go	
11 bed	angareb	kára	agera/àngèrèp	
12 bee	kimin	tímiŋ-gi {ø}	kènéñé-tíñiŋ	kimeñ-i {-u}
13 beehive		jùkù-tá	còk/zúngo (?)	
14 belly	tabu-k	kúnyò	bütülù*	kul
15 big/old	kula-k	kódi/guri	kwàyè/kùdè-ndé	kwòlɛ/kuyoy
16 bird	kùfí-k {-tu} {kúfíkúfée}	kúfí-k kúci {kúcé/kuci je}	kòs-í {-it}	kwòsi {kusudduk}
17 bite	-is-	-if-	-òtí-	-ut-ed-

18	black	lù-lù-yòk	dú-ngi	d'k'n{d'k'nò}	di-ndik {-ndó}
19	blood	àrii	fàríŋ	pày {-ó}/fáai	fal {-u} ari
20	body	ndúu	ndũ	ndù-k	ndu-k
21	bone	kāñjĩ-k	kónji	jĩŋg`r {jũŋgòrò}	njekedi {njùkùdú}
22	boundary		la-ldi {-ri}	yà-i {-yò}	
23	branch	bíláa	fira		
24	breast	àngún	àngùlĩ	àngòñi	àngòñi
25	bring	-ánár-	-ínar-	-ínàr-	-anar-
26	brother	-ir	-ir	-ir	-ir
27	calabash	àngóyili		àngòdòdòŋ	
28	causative	nd-	nd-	nd-/taa-	
29	charcoal	kikimi-k	kicimi	kúyúy-i	g`sifiim-àng
30	child	kà-kàlá-k f	kara f	kàykày	kálkál
31	child	kàlá-k m	kimam		kálmem
32	cloth	caaka*	joox*	caaká*	
33	cold	kera*	kérí-mà*	àtàandí	àtàandí
34	come	-àr-	-àr-	-èer-	-àr-
35	corn	kalla	korneyan	kíyán	
36	corn	ésée	ásè	ás`-k	assee
37	cough		-icokor-	-dòkòr-	
38	country	daar*	gani/kasè*	kàsè*	lan
39	cow	dè-k	dèe	dò-k	dò-k
40	crow	agura-k	agura*		
41	cry	-ool-	-oor-	-òrò-	
42	cut	-atam-	-ifél-	-èt`m-	-and(ay)-
43	day	dalka	dekadi*	sóoró	sarwo
44	die	-óy-	-iy-	-í-	-iy-
45	dig	-uur-	-uul-	-or-ɔŋ-	
46	dog	nú-k	ínji	miñ {miñjít}	miñ {minjík}
47	dream	-òlòl-	-arir-	-òyèy	
48	drink	-y-án-	-aŋ-	-àŋ-	-aŋ-
49	dry	nojir	fere	nàbày/ninjim	nbaai
50	dust/sand	gisigáa/ ganun	gani/gari	k`siaá-k/ kí(y)ák	kasya/kí(y)à
51	ear	koi-k	kwóyè	kàsá	kàsá
52	eat	-aň-	-iny-	-ňò-	-ňó-
53	egg	kademi-k	kéndèngí {kédèm}	kàdèmòŋ {ò}	kadem-aŋ {-ɔŋɔ}
54	elephant	ŋòo-n {-ńii}	mùŋ-gì {jɛ}	ànòn {-tí}	anɔn
55	enter	-ày-	-ac-/-ay-	-aas	-as-
56	eye	kàfĩ-k {-ñi}	kóo-gí {-sí}	kàs-`k {-ò}	kàs {-u}
57	face	(n)yo {yetu}	úyò {úyé}	àydó/wújé*	wuje*

		yo-gi {-sɛ}	{áyðò/wújó}	{wujildò}
		'forehead'		
58 fall	-ongun-	-inder-cir-	-ùs-'t-	-us-it-
59 far	lɛl-ti	nyele		del
60 farm	ɔsur*	asurti*	sɔɔrɔ*	
61 fat (n)	niamu-k	nyomor	ñim {ñímú}	ñim {ñumo}
62 finger	kartoggala-k	nagaram	kàrá	kàrá
63 finger-nail	ñíngírmísi-k	kinjimi	síngími	síngírím
64 fire	wási-k {-i}	wàasí	n's'k{nusu}	n's'-k
65 fish	kuño	kúnyò	kùñúg {-ó}	kuñag
66 five	t(ú)úr	tur	túur	tur
67 fly (v)	ber -ir-	fír -ig-		
68 fly (n)	áñiŋ	áñiŋ-gi	áñíñí	añini
69 foot	ja-k {-ñi}	jo-nyi {-ø}	dò-dí	dòo-dí
70 four	àssàal	as	áttéy	atal
71 full	fíŋ {-ti}	bigga	bíyím/bíc/ bíjàsé	bíc
72 garden	zagia*	zágè*	sòkò*	
73 giraffe	ifir* {-ii}	lerigarangi	àwár* {àwàrtí}	
74 give	-òny-	-iŋy-	-iiñ-	-iñ-
75 give	-and-	-and-	-àndàas-	
76 give birth	-uŋ-	-uuny-	-iñ-	
77 go	-ày-	-ay-	-ày-	-òkòŋ-
78 goat	jo-k	ju-lgi	àndèi	Andi
79 good	nemere-k	kallɛ*	sám*	jár
80 gourd	kuudu-k	kòdòkó	kédé	kede
81 grass	luwa	tari	yà-k	la/lo
82 green	dri-drí-yàk	ràa-ŋgi	raa-ndik	raa-ndik
83 ground	bárr	bùurá	bàañiŋ	bañag
84 hair	tifí-k {-i}	tígà/tifa	tòw	towi
85 hand	kara/kana	kórò	kàrá {koro}	kàrá {kóró}
86 head	kíjì-k	kújò	ki {kíjé}	kic {kujo}
87 hear		-in-ung-	-'n-	-in-in-ŋŋ-
88 heart	kùlì-k {-íi}	kùrì	jì	ad sa, cfkul {-do} 'belly'
89 heavy	lulu	lera		
90 here	gun	gim	gin	gin
91 hoe	kaŋya	kaña	kiñáñá	
92 hole		agu	àgù	àgù
93 honey	kimiin	kirimà-k	keméne	kimíñi
94 horn	kémí-k	kámi	gàm-dí	gàm-dí
95 horse	bèré-k {-íi}	bere	fila/pla {p ltit}	fia



96	house	táj	taŋi	tònggó	tònggó
97	house/nest	kurun	kurdi	kùdù {-wó}	kuduo
			kùdé/korok 'inside'		
98	hunger	ajuu*	wicitie	átú*	átú {àtùdó}*
99	hyena	húiyà ('howl')	awiye	àbólí {àbòlit}	aboi {-dik}
100	I	àm	ama	àmò	ámò
101	kill	-iyw-ír-	-iyaw-	-àsów-	-asao-
102	knee	túmó-k {-jé}	kádinyo	d`m-dí {-dú}	dàm-tí {-tú}
103	know	-as-ig-	-os-ig-	-òt-èg-	-ot- k-
104	laugh	-ask-	-ecek-	-dé-	-àt-ây-
106	leave	-àbbàan-	-abas-ig-	-bù-	-ubunn-
107	left	bala	kèré	dèkía	dàkale
108	lion	àmàrà-k	ama-ra {-kar}	màndày	
			{màndèltí}		
109	long	le-le-k	cùkángí	dè-dí {-ké}	dè-dí {-ké}
110	louse	mèsèlè-k {-ø}	akingi	mànjé {munjo}	minj-e {-i}
111	male	már-jée {-ø}	már-gí {-se}	már	
112	man	máji-k {-ún}	kà-ngí {-ø}	kà-méré	kà-méré
113	man	kámà-k	kàmbà	mérét {mèrèt}	
114	meat	ñù-k {-`ú}	nyú-gí	ndobo	yibo {-do}
115	milk	sílá	jíi	jù-k {-ø}	ájù
116	millet-paste	futiir		pattár	
117	monkey	gùr {-íi}	gur-gí {-i}	àgùr {-tí}	
118	moon	éyè-k	áyè	ànj`-k	ànj`-k
119	mortar	fonduk*	funduk*	b`di	
120	mosquito	agel-ek {-ni}	anjul-gí	àjikiñí {-t}	
121	mother	ñíŋ		ñíŋ	
122	mother		daa	yá	
123	mountain	kodo-k {-ø}	kómà {-je}	kòmàan-dí {-dó}	kùmàan-dí
124	mountain	kodo-k {-ø}	kondola	kadàkkei 'stone'	
125	mouth	kan-a {-tu}	kàná	yù-k	yù-k
126	name	míli-i {-sii}	mirsi {-ldiŋ}	mèek-í {-ú}	m lk-i {-udo}
127	navel	dùmú-k {-ú}		àdim {àdùmù}	àd`m {adumo}
128	neck	biti-k	kóti	k`rmí	k`rmí
129	new	ñend-ík {-isi}	ñúndi {'`}	w`nd-í {-ò}	
130	night	ífé/òjùrkó	kosan	diindé	diindó
131	nine	òddói	ade	kadeel	kadai
132	nose	boiñ	dürmi	mündü	mündü
133	of	-na	-taŋ	-na-ŋ	
134	oil (cf. fat)	ñàmú-k	ñámi	ñum	ñum
135	old person	manjil	monjo-kola f	minjò/mònjò	
136	one	tóo	tyom/tóo/	tùwá	tuwni

		tiilo		
137	only	dee	dei	ndó
138	open	-wútúl-	-uutur-	
139	outside	fèrín	orro 'behind'	àrí kòlè
			sóolè	-ifirin- 'go out'
140	owner	tèné	ténè	tènè
141	palm of hand	adadang	adarangi	kàrá kwíy
142	paper	furuk*	farax*	párák*
143	path	líná-k {Sn}	búrti {Fl}	nóngwéyè nóngólè
144	penis	gumbúl	kumbor	àwéy auw l
145	pepper	filfil*		pílpíl*
146	person	kang/kai	kangi	kàn {kè} kan {ke}
147	porridge	nyèré-k	nyuguru	nàn
148	pot	dábánggáa*	dabanga*	dabanga*
149	pot	singay	sakana	sàkán
150	pound	-uddung-	-iduk-	-dook-
151	rabbit	mómó-k {-tu}	máamà {-je}	másá
152	rain	inji	sa	tà-k {tá} ta
153	/monsoon	kilèerí		kódírwò kodorwo
154	rat	jik {-etu/isi}	jù {-cé}	àj-ù {-út} àjú {-tuk}
155	red	kù-kù-yàk	ko-ngi {-ni}	ndàlàn kwònjé-k {kùnjó}
			'brown'	
156	remain	-iirg-	-ireng-	-ri-t-
157	right	kolon	kòdòrkónjí	koyinga kolon
158	ripen	-yòm-	-oom-	-òm-
159	river	bita-k {-si}	madaldi {Fu}	tà-k {-ø} ta
160	rotten		tuye	tiyoye tiyoi
161	salt	uja	àngò	síim silim
	/iron			sàim-í {-ú} salmie
162	sand	fi 'soil'	abi	abiyó-í {-yu} abileli
163	satisfied	-iil-	-oíl-	-iid-
164	sauce	su	su	tò-k
165	say	-er-	-er-	-ày`r- -ayer-
166	scratch		-igos-	-íñàs-ón- -iñas-en-
167	see	-oko-	-iser/ikel-	-òond- -ond- k-
168	sesame	wanaanga	àníjá	ànájá
169	seven	méndrii	màrí	mándirsi mindirsik
170	shadow	ònjúlò-k*	anjilo/asro*	ànjié/ànjibon*
171	sharp	tiñi	tèngèè	tèrín
172	s/he	ti	ti	tii ti
173	shoe	bara	bar-jaji	bàrr
174	shoulder	korkor-uk {-je}		kòsòkór {-ó} kòsòkór {-o} 'wing'

175	shut	-ils-	-wurs-		
176	sit	-oñeg-	-unyug-	-ũñũg-	-uñũg-nduk
177	six	sittàal*	it(t)i*	isséi*	issal*
178	skin	koi-k	bára	màdà	madda
179	sky	samaa*	sama*/mundu	mùnùnù	sámà*
180	sky/cloud	abioo	abiri	sáap*	sahap*
181	sky/god/rain	kalak	karingga	kàìngá	
182	slave	wùyó		gùyá	
183	sleep	-èbiy-	-ibi-'lie'	-'bèi-	-ubi-tik-
184	small	nyilì-k	súwánà	káakéy	kàdèékàl
			nyer-ko 'baby'		
185	smoke	kúuldaa-k/ kúndík	urungi/ kurunda 'dust'	àmbròñí	àmbrùñí
186	snake	taranga-g	tarànggi	kòlò	koyò
187	sour	-kámà-k	juma	káyám-ndí	
188	sow	-ask-	-ind-is-	nd-èt-	
189	speak	-uur	-oor-	-òor-	
190	spear	sùbá-ŋ*	nyori	s' bò-k*	s' b' -k*
191	spear/war	yorre	nyori	ñür 'sword (sabre)'	
192	spend day		-óos-	-òd-	
193	stand up	-urnag-	-ornag-	-uran-	-urnag-
194	star	míña/menue-k	kíyè/muñige 'Mercury'	kèij-á {-ó}	kèèf-á {-ó}
195	steal	-éníy-	-eniññ-an-	-agei 'covet (convoiter)'	
196	stick	dolo-k/cum	buta		
197	stone	kodo-k	kómà/ditera	dùs-i {-ù}	dúusi {dúsúdò}
198	straight		àdíl/ndelli	àdíl/dilangsé	adiil
199	sugar-cane stalk	gamberi-k	gember-ti {-i}	gàmbàrí	
200	sun	èñi-k	áyìngé	àñìŋ	àñ-ìŋ {-ùŋù}
201	swallow	-lìngá-	-oliŋ	-l' ŋ-	
202	sweat //	moruu	muri		
203	sycamore		sisi*	àsisí*	
204	tail	òlù-k/àlú-k	kora	àl'm-dí	àyù-dí
205	tamarind	konji-k	kúnjì	kúnjù-k	
206	tears	nyi-nyi	nyi		
207	ten	òtúk	ùtúk	ituk	ituk
208	they	wáj	wii	wii	wì
209	thirst	ace-k*		àsò*	
210	this	ago	igi	gó	go
211	thorn	afi-k/èsí-k	arce/arci	àdí-k {adí}	adi-k {-i}
212	three	kòŋàal	káaŋ	kásángá	kásàngàl

213	throat	sanggala-k	agara {-s}	
214	throw	-ajan-	-icum-	-sàŋ-
215	thunder	durda-k	turi	trügá
216	tie up	-uuf-	-wac-	-òt-      -ut-ʌŋ-
217	tongue	delmi-k	gélmedi	adiyím      àd' lém
218	tooth	sati-k	kácinggi	sàdí      sàdí
219	transitive	n-	n-	n-
220	tree	songgo-k	síggi	rí-k      ri-k
221	trousers	serwal*	sirwal-ko*	sörwál*
222	two	mbar	mbàrà	mbá      mbar
223	uproot	-ùud-ùŋ-	-od-o-	-òd-`-      -od-ʌŋ-
224	urine	ísíi	ísà	müsù-k      musu
225	wait	-uuls-	-wurus-	
226	want	-idiy-	-ind-	-ndày-      -ʌndal-
227	warm	bɔŋɔ	boggo	baŋ      baŋtɪr
228	wash	-wük-	-uk-	-òok-
229	water	inji	sá	tà-k      ta
230	we	maŋ	mí	mì      mì
231	well	gule-k {-si}	kúrti	kúrtó/àgùyé      kùttó
232	white	fà-fár-àk	ji-sa	pár {-ó}      far {fórò}
233	wind	auli-k/òili-k	águrí	ágwiý      ágúli
234	woman	mùfò-ŋ {-o}	múcò	mì {mís}      mì-l {-sík}
235	wood		xafab*	njó́m      njirím
236	woods	ʌsé		ʌsàk      ʌsé
237	world	dunya*	dinya*	dúniá*
238	wound	ɔndur/andur	àndürti	ànd' r {àndró}
239	year	kudria-k	sene*	kàdàròwòn-dí      kadarwun-di
240	yesterday	kondaŋ	géndégù	kàndáŋ
241	you sg	mè	maŋ	mò      mɔ
242	you pl	káŋ	kii	kii      ki

## APPENDIX 2: Verb lists

Verbs are listed in the format used in Edgar (1991): base 1 ~ base 2, 2sg allomorph. Maba does not appear to have the base 1~2 distinction.

## List A: Cognate verbs with different 2sg allomorph in different languages

<i>gloss</i>	<i>Maba</i>	<i>Masalit</i>	<i>Aiki</i>	<i>Kibet</i>
be angry	aʔion,D	ʔ~iñiʔar,l		
be, live	índ,g/i,g	índ~índ,j/i,j	ènd,j/índ,j	
become		wak~wak,g	èk~èkt,j	
break	arm,d		ràm,D	
bring	anar,D	inar~inar,D	ínàr~ínàarn,n	anar~inarʌ?,n

			nar~nèer, D	
buy/sell	ark, d	arok~aron, D		
bury	íms, d	imis~imisi?, g		
count	inin, D	ini (1) n, n		
cut	átám, d		dèm, D	
	'cut many'			
	ùtùm, d intr			
drink	ya?, l	a?~a?i?, l	à?~a?an, j	Λ?n~Λ?nín, j
fall			us, g	us~usín, d
fear		oorak~ooran, g		ulan~ulanín, d
forge	ime, d	oim~oimen, g		
give	òny, D	i?j~i?y, g	niñ~niñj, D	unjik, ?
give birth	u?, d	uuny~uunya?, l	iñ, j	
jump, dance		em~emi?, l	`m, g/òm, g	
leave	àl (ε), D	el~elε?, l		
be lost	àfày, l		àbà~àbàtt, j	
open	wútúl, ?	uutur~uuturu?, l		
pull out	ùudu?, l	ud~uda?, l	òd'~òd'd, g	oda?~oda?ín, g
		odod~ododo?, l		ùd'~ùd'd, g
				'harvest'
refuse	uus, g		ès, j	
say	eer, ?	er~irna?, D	ìr, j	
scratch	i?os~i?osi?, D		iñàsón, g	iñasen~iñasenín, d
sex (have)	iin, l	iin~iin, l	iin~iinò, j	
steal	éníy, g	eni?ñan, ?	a?ei~à?i, j	
struggle	iir, z		d'm~òor, D, j	
throw	àjjàan, g	icum~arc, D	sa?, D	
want	índ, g	ind~ind, g	ind, j	
want	idiy, g	índ~ind, n	ndày, D	andal, D
wash tr	wük, l	uk~ukan, l	òok, j	
wash intr	yik, l	ok~okan, l	òk~òkò, ?	
weep	ool, l	oor~ooli?, l	òrò, g	

*List B: Cognate verbs with the same 2sg allomorph in all the languages*

bite	iis, g	iifej~iif, g	`ti~`tit, g	uted, ?
close, shut	ils, ?	wurs~wursu, D		
cough		icokor~icokorn, D	dòkò (o) r, D	
eat	añ, D	iny~inyen, D	ñò~ñòw, D	ñór~ñàwín, D
fall		indercir~ider, D	d'r~d'rtè, D	
		inj~ider, D		
get out	iŋ, d	iin~iinñer, d		(Mimi: iŋ, z)
go	aka, g			ak, g

know <sup>5</sup>	was, g	was~wasin, g	ɔtɔ, g	otek, ?
laugh	ask (ir), D	ɛɛɛk~ɛɛɛn, D		
ripen	amo, ?	oom, g	òm~òmt, g	
be satisfied		ɔilus~ɔil, g	iid, g	
sow		indis~indiseɲ, D	ndet, D	
spend day		oos~oos, g	òd, g	
swallow	línɡá, ?	oliɲ~oliɲan, D	l'ɲ~l'ɲ, D	'keep in mouth'
		?~lɪɲan, l		
wait	uuls, D	wurus~wurusɛn, D		
weave	usk, D		sòò~sùw, D	

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<sup>5</sup> Cf. Kanuri nòt 'knowing', Fur iwisi.