

# **Tegem-Amira: a previously unrecognised subgroup of Niger- Congo**

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## 1. Introduction

Kordofanian is conventionally defined as four groups of languages spoken in the Nuba Hills of Kordofan, southwest of Khartoum in the Sudan (Schadeberg 1989). However, a problem remains concerning the affiliation of the language known as Lafofa or Tegem. Schadeberg (1981b) includes it within Talodi, while acknowledging that it is extremely remote from the rest of the group. He includes an extended wordlist collected by Robin Thelwall in an Appendix. Stevenson (1962-64) also treats Lafofa as highly distinctive and places it in a branch of its own. McDiarmid & McDiarmid (1931) give a very short list of a language they call ‘Amira’ which they treat as a dialect of Lafofa. Stevenson’s unpublished mss. include wordlists of both Lafofa (approximately corresponding to the lect in Thelwall’s wordlist) and some data on Amira, apparently from an unpublished manuscript of the McDiarmids. The purpose of this paper<sup>1</sup> is to make available this unpublished data and to reconsider the place of Tegem and Amira within both Kordofanian and Niger-Congo as a whole.

Our understanding of the place of the Kordofanian languages within Niger-Congo is intimately linked to our broader models of the phylum. Largely by reprising categories defined by Westermann and Greenberg, Niger-Congo has been assumed to have small number of subgroups. More and more these are turning out to be the products of ‘lumping’, treating geographical groupings as genetic subgroups and discounting the effects of contact.

## 2. Tegem-Amira data

The earliest data on Tegem [=Lafofa] are in Seligmann (1910/11) reprised in Meinhof (1915-19). McDiarmid & McDiarmid (1931) published a very short list of Eliri (Lafofa) and El Amira which they describe as a ‘dialect’. Stevenson (1956-7) has some material on Lafofa, although this is a very abbreviated representation of all that he collected. The only modern published data on Tegem is in Schadeberg (1981b) which contains both the author’s wordlist and a supplementary list collected by Robin Thelwall which differs from it in some respects. Stevenson continued to collect material on Tegem, as witnessed by his extensive files (Blench 1997) and it is to be regretted that these are not easily available for consultation. The McDiarmids apparently collected a slightly longer wordlist of El Amira, since in Stevenson’s manuscript Kordofanian wordlists, he quotes material not in the early published article. It is this material which is given here, since it seems to establish not only that El Amira is a separate language, but that its noun morphology is much reduced by comparison with Tegem. Also included are some words in the 1931 article not given in the Stevenson mss.

The lists are given as in the originals, apart from the following conversions to IPA, in order to minimise confusion;

j	ɟ
c	ʧ
ny	ɲ

Stevenson’s conventions for dentals are not entirely clear, so these are given as in the original. Plurals are marked with a slash /, whereas alternative forms are separated with a comma. Additional words in McDiarmid & McDiarmid (1931: 155) are blocked in colour.

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<sup>1</sup> This paper could not have been written without access to the Stevenson mss. However, the bulk of these which are now in the UCLA library and virtually in accessible.

**Table 1. El Amira and Tegem comparative wordlist**

Gloss	Tegem	El Amira	Kordofanian and other cognates
all	pó-mmìn		
ashes	muu(i)		
bark	jìr(i)		? Masakin k-iṛi/w-uṛi
belly	ṭ-úrr /m-	tu (abdomen)	
big	pí-ɔmbàn	cimá	
bird	p-íṛje /á-	yū	? Talodi pure
bite	ɔɔ		
black	p-ííin/y-	pute	
blood	ɲì	ɲi	? Masakin ɲiru
bone	ṭ-uòm(i) /m-	tuwam	
breast	ṭ-ò /k-	t-wo/ k-	
burn	ndiikεε		
<b>chest</b>		<b>liūn</b>	
claw	kúkà/wúwà	kajuwi (?)	? Asheron kau
cloud	kállò	tikan	
cold	pí-yòòn	buūlē	
come	kɪɖièn	‘nde	cf. Rashad nda
die	ɲòɲ	ɲuwi	? Asheron -iɲo
dog	pébù/éérù	pu	cf. other Niger-Congo #bu
drink	ʃuwee	dʒu	
dry	pə-róórìn		
ear	ṭ-iè /m-	k-we/we	
eat	kírik	palith	? Masakin rigo
egg	ṭ-uo /m-	mwa [= pl.]	
eye	ṭ-i, dʒ-i /m-	lilaɲ/ɲimaɲ	
fat	ɲèè	ʃiʔi	Talodi ɲak
father	imbaa	āpā	all Kordofanian branches
fire	ṭ-éé/éé	thei	pan-Talodi #tɛ(k)
fish	p-ál(i)/ál(i)	pūm	
fly n.	p-a/a		
foot	ṭò/ liè	liū (foot), tuwū (leg)	
<b>frog</b>		<b>luwo</b>	
give	dʒin	dʒin	
go	kɔdɔk	‘nduwā	cf. Tegali-Tagoy #ndɛ
good	p-ílin/ílin		
<b>grain</b>		<b>mamāk</b>	
grass	ṭɪɪk/lèè		cf. Daloka tɪtɪ
hair	lâi	naith	
hand	k-òmi/òmi	komdi (hand), k-aɲ/aɲ (arm)	
head	ṭrótà	te	
hear	ɲèn	pɛɲin	cf. Rashad ɲɛɲná plus other Kordofanian ‘ear’
heart	ṭ-in/m-	lini	
<b>honey</b>		<b>ūyi</b>	
horn	ṭ-ù/r-		cf. Tagoi ʔ-urɪɲ-/ɲ-
I	ɲédʒi	ʃɪɲi	cf. Rashad ɲi
kill	lâlùɲ (bird), (animal)	ndagɪdʒɔn nalaɲ	
know	-ɖindʒùɲ		
knee	ʃ-írèn /y-	ʃi	

Gloss	Tegem	El Amira	Kordofanian and other cognates
leaf	ʦ-ulúú ɾie /m-	nee	
liver	k-amaɾɣà/amaɾɣà		
long	p-iapwílin		
louse	gamul		? loanword
man	kɪ-mɛɛ /a-	kedzo/ela	
many	ʦítuwò		
meat	kʷòò(i)	kaʔa	cf. pan-Kordofanian *k-abas
milk	ɲwo	ɲwo	
moon	kwě́l(i)/wě́l(i)	kwě́n	cf. Talodi k-anək
mountain	kʷ-óm(i)/óm(i)	kuwaʔám	cf. other Niger-Congo
mouth	k-ɛɲi/ɛɲi	kɲ	cf. Rashad ɲger, Domurik kɪ-ɲɛ/ɪ-
name	ku-ruwàɲ/a-		
neck	ʦ-uwèr(i)/èr(i)	tě́n	
new	péé-lìn	gwete(la)	
night	kíiɲ	luli	
nose	kó-ràɲ(i)/a-	wimu	
one	ɲɾɛ́ɲi	piʃě	
other	pák dalìn		
rain	kálò ɲii	wě́n	
rat		pou	
red	pí-yèn	pi-ěsě	
road	ʦ-iàɲ(i)/m-		
root	ʦ-a(i)/r-		cf. Masakin Tuwal ʦuwa/rəga
sand	kuwáá	twi	
say	ɾiɟɪɪ	pendiŋgen (speak)	
see	nɟɛɲ	pabuwa, -bwo	
send	ʦ-ón /m-		
sit	lókwe	lokwéth (sit down)	
skin	ʦəwè/rèè	kwo	
sleep	kɪməɾɔɲòk	kāmlonɔ	
small	pé-pwèɲ	alɲwufʔandan, tagindan	
smoke	ʃurr		? Rashad uruk
snake	w-ɛl(i)/k-	wě́n	cf. Tagoi w-in/y-in-ɛɲ
stand	kalɔwáá		
star	ʦ-urʔó(i)/m-	lo/mulo	
stone	ʦ-ɛɛ(i)/m-	lilaɲ	cf. other Niger-Congo
sun	pùù	puwu	
swim	ʦúúkà		
tail	ʦuwí/rii		cf. Masakin Tuwal ʦ-u(u)ɟi/r-
thin	pí-raɲin		
this	pé-ɟɪ, adé- (f.), ʦé- (n.)		
three	pəɟáán	tare	cf. other Niger-Congo
thou	ɲoɟɪ	cuɲwa	cf. Rashad ɲɔ, Daloka òɲù
tongue	l-iəɲ(i)	liɲ	cf. Talodi ʦ-ulunɛ/l-ilunɛ but pan-Kordofanian
tooth	ʦ-èɲ(i)/k-	t-aɲ/k-	#ɲi is pan-Niger-Congo and in Nilo-Saharan
tree	kuwò(i)/bɔɔ(i)	kwa	cf. other Niger-Congo
two	pɪɟɛɛɪn	pelě	
warm	púúwùn (hot)		
water	ɲii	ɲi	? cf. Talodi ɲir
we	ya'edɟi	ʃɪni	
wet	puu-wöön	pu-wecā	
what?	nɟé		cf. Rashad andən

Gloss	Tegem	El Amira	Kordofanian and other cognates
white	p-óówòn/óówòn	-ǒ, -o	
who?	àmbuṭè, állúṭè		
woman	pomabò/amaḡò	pinembo/ninoḡ	
ye	ǎḡì	tinwa	

The McDiarmid's ǎ is probably /ɛ/ and the macron over vowels must represent length. The published material does not mark plurals in El Amira, so the few here must be in the original manuscript. What is unclear is whether many plurals in El Amira are lacking or whether this is just an artefact of the data. Adjectives in Tegem all have a pV- prefix which is marked by a hyphen as distinct from the root.

### 3. The place of Tegem-Amira within Kordofanian

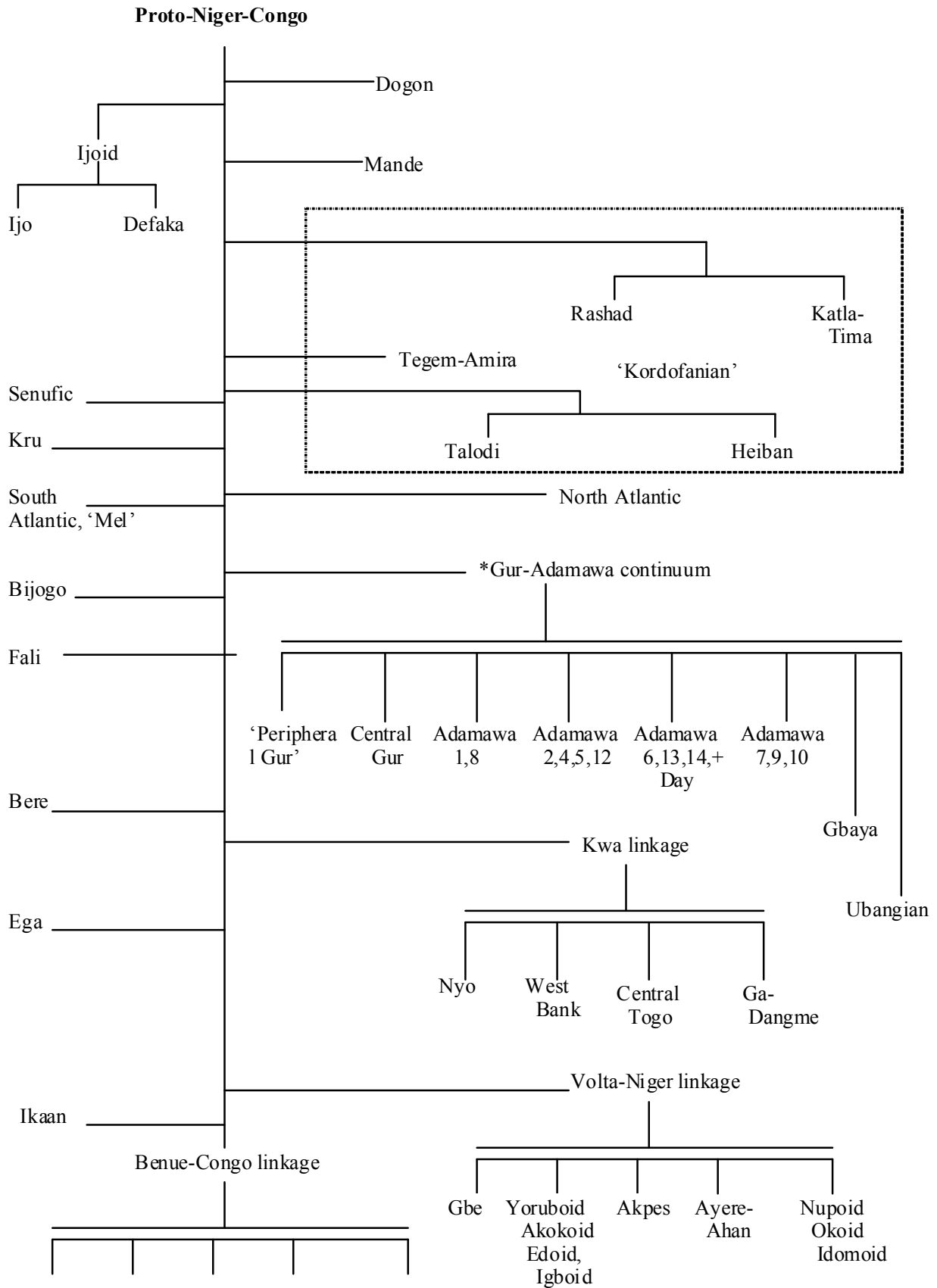
McDiarmid & McDiarmid (1931: 155) in their original publication of El Amira data claimed that it was a dialect of Lafofa but that the 'strongly pronounced and elongated nature of the vowels' made it seem like a distinct language. The datasheets show this is unlikely. Not only does Amira have many different lexemes from Tegem, but it has an extremely reduced morphology. On this basis it is treated as a separate language related to Tegem.

On the basis of cognates alone, it would be difficult to argue for a particular affiliation of Tegem-Amira within Kordofanian. Similarities with Talodi group languages are balanced by those with the Rashad group and with pan-Kordofanian roots. The lack of similarities in basic pronouns and numerals argue for Tegem-Amira being a separate branch of Niger-Congo. In Schadeberg (1981b: 158) he notes that he has taken over the hypothesis of a Talodi affiliation from Greenberg, but that other authors (e.g. Tucker & Bryan 1966:287) and Stevenson (1956-7) regarded Tegem as a separate unit on the basis of grammar and that lexical similarities were thus loanwords. There is no doubt that there are similarities between the nominal prefix system of Tegem and other Talodi languages, as demonstrated in Schadeberg (1981b: 128). However, given the otherwise remote lexical relationship and the absence of much of the noun class morphology in Amira, it is quite possible this is the result of some type of convergence. §4. which discusses the relationship of Tegem-Amira with other Niger-Congo branches, argues that the existence of highly distinctive West African cognates means it is likely that this is indeed a separate family and that similarities with Talodi and indeed other Kordofanian reflect contact as much as a shared Niger-Congo heritage.

### 4. The place of Tegem within Niger-Congo

Appendix 1 gives a series of tables locating Tegem-Amira within the framework of Niger-Congo. If it is accepted that Kordofanian does not constitute a genetic unity, then the problem remains as to the placing of individual branches within the broader framework of Niger-Congo. The data tables in the Appendices give a broader overview of the possible cognates of individual Kordofanian lexemes, and these can be taken as general indications of the likely place of specific branches. Figure 1 presents my most recent version of the Niger-Congo 'tree' with all the usual reservations.

Figure 1. Niger-Congo restructured



Some of the underlying assumptions of the tree are as follows;

- a) That language groups such as Mande, Dogon and Ijo, which have no evidence for noun classes represent the earliest branches of Niger-Congo. This is also supported by the absence of many common lexical roots attested in Atlantic, Benue-Congo and elsewhere.
- b) That the Kaalak-Domurik-Rashad group dates from this period and that the noun classes in Tagoi are locally developed through contact.
- c) That Lafofa is quite distinct from Heiban-Talodi, although migrating eastward at a similar period, after the development of noun-class systems and that similarities between Lafofa and Talodi are due to contact

Assumption b) is fairly controversial and other papers on 'Katla-Tima' assume that the noun-class morphology has been lost.

## 5. Conclusion

This paper provides the existing data on the Amira language, with data on Tegem, where this exists for comparison. It argues that these two languages are a separate branch of Niger-Congo, although admitting the problems from arguing from such a small and ill-transcribed database. Amira is one of the few languages for which no speakers have ever been encountered during the displacements of the civil war. Let us hope it is still spoken.

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## APPENDICES: DATA TABLES

## 1. Cognates of Tegem-Amira and other Kordofanian with Niger-Congo branches

1. Family	ear/to hear Subgroup	#-n(y)u[ku][lu] Language	Attestation ear	II hear	Gloss	Source
		PWS		nú-		W
Dogon		*Dogon	sugunu			Ho04
Ijoid		P-Ijò	—	nãã		KW
Ijoid		Defaka		nãa		Je83
Rashad	Tegali	Rashad	nu/-n		ear	RCS
Rashad	Tagoi	Tagoi		ɲinná		RCS
Kaalak-Domurik		Kaalak	gu-no/u-		ear	RCS
Kaalak-Domurik		Tima	kò-nò /i-		ear	GS
Mande			—			
Tegem-Amira	Lafofa	Tegem		jaʔ	hear	Sch81b
Tegem-Amira	Lafofa	Amira		pějin	hear	McD
Kordofanian	Proto-Heiban		*g-aani/n-		hear	Sch81a
Kordofanian	Proto-Talodi		*g-eenu/w-ge-nu/we-		hear	Sch81b
Kordofanian	Talodi	Asheron			hear	No00
Atlantic	North	Fulfulde		nan-	<i>entendre</i>	No89
Atlantic	North	Wolof	nɔpp		ear	Wi07
		Bjco	ganu			Sg
Atlantic	South	Bullom	nu-i			W
Atlantic	South	Baga Sitemu		-ne		Sg
Atlantic	South	Gola	ke-nu		<i>öhr</i>	We21
Kru		Grebo	nóá		<i>oreille</i>	ALKrCI
Kru		Dida		nú	<i>entendre</i>	ALKrCI
Senufo		Nafaara	níígé			ALGCI
Gur		Lobiri	nũũ			ALGCI
Gur		Baatonun		nua		W
Bijogo		Bijogo	kɔ-nnɔ /ɲa-		ear	Sg
Kwa		Alladian	núkù			ALKwCI
Kwa	GTML	Animere	gu-ɲũ /a-		ear	Ca
Kwa	GTML	Logba		nu	to hear	W
Kwa		Gonja		nù		Sn89
VN	Igboid	Igbo		-no		Wi72
EBC	Cross River	Kɔrɔp	lu-nuɲ			St
Bantu			—			BLR3

2. Family	#deNe Subgroup	tongue Language	Attestation	Gloss	Source
		PWS	-lima	<i>Zunge</i>	W
		PWN	-lélum-, -lúm-	tongue	M
		PWN	-lima, -liami-	tongue	M
Ijoid		Defaka	menduɔ	tongue	KW
Ijoid	Ijo	Oporoma	mělí	tongue	KW
Kaalak-Domurik		Domorik	k-ilāɲi /-~	tongue	RCS
Rashad	Tegali	Rashad	áɲa	tongue	RCS
Mande		Busa	léná	<i>langue</i>	

2.	#deNe	tongue			
Family	Subgroup	Language	Attestation	Gloss	Source
Tegem-Amira	Lafofa	Tegem	ləŋi, lɛŋi	tongue	Sch81b
Tegem-Amira	Lafofa	Amira	liŋ	tongue	McD
Kordofanian	Talodi	Talodi	tu-luŋɛ pl. l-iluŋɛ	tongue	RCS
Atlantic	North	Fulfulde	dɛmŋal	langue	Mo89
Atlantic		Bedik	i-dɛm /ə-	tongue	Wi07
Atlantic		Baga Fore	lem	tongue	Wi07
Atlantic	South	Temne	rəmer	tongue	Wi07
Kru		Aizi	mɾɔ	langue	ALKrCI
Kru		Dewoin	milà	langue	ALKrCI
Gur	Oti-Volta	Bieri	dem-fa /-i	langue	Ma75
Adamawa	Mumuye	Zing	rèè-tè	tongue	Sh83
Adamawa	Jen	Munga Doso	lyêm	tongue	UK
Gbaya		P-Gbaya	*lembe	langue	Mo95
Ubangian		Baka	milí	langue	Br10
Kwa	GTML	Adele	à-limán	langue	Ro
Kwa	GTML	Giseme	gí-déné pl. ì-	tongue	
Kwa	Gbe	Ewe	àdɛ	langue	Ro
Kwa		Ga	lí'léí	tongue	Kr99
VN	Igboid	Igbo	ilé	tongue	
VN	Nupoid	Nupe		tongue	Ba14
EBC	Plateau	Tyap	a-lyám	tongue	
EBC	Plateau	Ganang	di-lɛm /a-	tongue	
EBC	Jukunoid	Wapan	nénè	tongue	
EBC	Upper Cross	Lokukɔli	rémilê/ rá-	tongue	St
EBC	Lower Cross	Efik	édémè	tongue	Co91
Bantoid	Mambiloid	Wawa	lèèm	langue	
Bantoid	Tivoid [?]	Esimbi	o-némə /ɔ-	tongue	SIL
Bantoid	Beboid	Noni	lémé	langue	PP
Bantoid	Ekoid	Mbe	le-lém	tongue	Po06
Bantoid	Grassfields	Ambele	-lémá	langue	PP
Bantoid	Grassfields	Ngie	inémí	tongue	SIL
Bantoid	Grassfields	Mankon	-lémə	langue	PP
Bantoid	Grassfields	Limbum	r-lee/ m- [M]	tongue	SIL
Bantoid	Ring [?]	Ndemli	l <sup>w</sup> ámli	tongue	NM
Bantu		PB	-deme	tongue	
Bantu		CB	-dúmi	tongue	G

3. Family	mouth Subgroup	Language	#ŋgeN- Attestation I	Source
		PWS	-ni,-nia	W
		PWN	-niana	M
Dogon		Toro	áŋa	GCG
Kaalak-Domurik		Kaalak	ŋeŋ	Gi
Kaalak-Domurik		Domurik	kt-ŋɛ/ɪ-	RCS
Rashad	Tagoi	Rashad	ŋger	RCS
Tegem-Amira	Lafofa	Tegem	k-ɛŋi/ɛŋi	RCS
Tegem-Amira	Lafofa	Amira	kiŋ	McD
Mande		Kpelle	na	VV
Kordofanian	Heiban	Cwaya	inya <i>pl.</i> yinya	Gu97a)
Atlantic	South	Mmani	e-ŋɛn /n-	Wi07
	South	Gola	o-ŋà	We21
		Bwamu	nyii	M
Adamawa	Mumuye	Zing	nyaa	Sh83
Bijogo		Bijogo	ká-na /ŋa-	Wi07
Kwa		Adyukru	néŋ	ALKwCI
Kwa		Sɛlɛɛ	kà-ŋa /ŋ-	M
Kwa	Guang	Chumburung	ká-nó	Sn89
Kwa		Ga	nàà	Kr99

**Commentary:** This is one of the most striking cognates between Kordofanian and the remainder of Niger-Congo, since the kV- prefix is found in both Domurik and Tegem and in Bijogo and the Kwa languages.

4. Family	-di(r)- Subgroup	tail, handle, Language	penis Attestation	Gloss	Source
Dogon		Jamsay	duɾɔ		Ho04
Ijoid		Nembe	otumó	vagina; anus; tail	Ka64
Kaalak-Domurik		Domurik	kō-ɖré/ɪ-	tail	RCS
Mande		Mandinka	túlu	handle of pot/basket	VV
Tegem-Amira	Lafofa	Tegem	duri, twii <i>pl.</i> rii	tail	Sch81b
Kordofanian	Talodi	Masakin	ɬ-udi	tail	Cr84
Kordofanian	Talodi	Asheron	gɔ-ɖik/rə-	tail	No00
Kordofanian	Heiban	Koalib	ɬ-ia/ɖ-	tail	RCS
Atlantic		Palor	luk	(Ø-/y-)	Sg
Atlantic	South	Sherbro	lóm	tail	Pi63
		Bijogo	e-ɔnɔ /ŋa-	<i>queue</i>	Sg
Kru		Kuwaa	ɲídewúlú	<i>queue</i>	ALKrCI
Gur		Wama	du-re/-ya	<i>queue</i>	Ma75
Gur	Oti-Volta	Safalaba	zuri	<i>queue</i>	Ma75
Adamawa	Mumuye	Zing	dèŋ	tail	Sh83
Gbaya		P-Gbaya	*dòm	<i>queue</i>	Mo95
Ubangian		Baka	sɔmu	<i>queue</i>	Br10
Kwa		Ega	ùlù	<i>queue</i>	ALKwCI
Kwa		Agni	dúù	<i>queue</i>	ALKwCI
Kwa		Ga	dúnàà	tail, anus, buttocks	Kr99
VN	Yoruboid	Yoruba	ìrù	tail	Ab58
VN	Edoid	Degema	ò-dúdù	penis	
VN	Ayere		ùndu	penis, tail	
VN	Akokoid	Arigidi	ìndù	penis	
VN	Igboïd	Ọ̀nịca	ódò		KW72
VN	Nupoid	Ebira-Koto	ìrètù	penis	

EBC	Plateau	Ce	u-ndú /i-	tail	RMB
EBC	Jukunoid	Kuteb	ù-tùm /à-	horse-tail	Sh81a
EBC	Cross River	Baan	du		
Bantoid	Mambiloid	Vute	dūúm		Co

## 5. belly

Ph	Family	Subgroup	Language	Attestation	Gloss	Source
NC			PWN	-tuimb- (-temb-, -tumb-)	belly, abdomen	M
NC	Ijoid		Defaka	itō	belly	KW
NC	Tegem-Amira	Lafofa	Tegem	tuuri, dūuri	belly	Sch81b
NC	Tegem-Amira	Lafofa	Amira	tu	belly	RCS
NC	Kru		Wobe	tūū <sup>^</sup>	<i>poitrine</i>	ALKrCI
NC	Ubangian		Baka	to	<i>poitrine</i>	Br10
NC	Kwa		Nawuri	ò-tô	belly	Sn89
NC	VN		Nupe	tùmbi	stomach of cattle	Ba14
NC	EBC	Kainji	Cicipu	túmó <i>pl.</i> òtúmó	belly	SM
NC	EBC	Upper Cross	Agwaagune	i'tú	stomach	St
NC	Bantoid	Beboid	Kemezung	tô	belly	SIL
NC	Bantu		CB	-tùmbe, -tumbu	abdomen	G

## 6. breast

Ph	Family	Subgroup	Language	Attestation	Gloss	Source
NC	Ijoid		P-Ijò	indōū		KW
NC	Tegem-Amira	Lafofa	Tegem	dōi	breast	Sch81b
NC	Kru		Aizi	dri	<i>sein</i>	ALKrCI
NC	Atlantic	North	Fulfulde	en <sup>n</sup> du	<i>sein</i>	No89
NC	Kwa	GTML	Igo	i-dunu /e-		
NC	Bantoid	Tivoid	Oliti	otimba	breast	SIL
NC	Bantu		PB	tómbò	breast	BLR3

## 7. skin

Family	Subgroup	Language	Attestation	Gloss	Source
Tegem-Amira	Lafofa	Tegem	tùwè <i>pl.</i> rèè	skin	RCS
Atlantic	North	Sine	dól	skin	Wi07
Gur		PG	to	<i>peau</i>	Ma79
Adamawa		Bangwinji	téé	skin	K196
Kwa		Ga	tótó	skin, bark, fish-scale	Kr99

## 8. #pi tooth

Family	Subgroup	Language	Attestation	Source
		PWS	*-ni, *-nin-	W
		PWN	-nín-(-nighin-)	M
Dogon		Yanda	ín	RMB
Ijoid		Defaka	nǎ	KW
Rashad	Tegali	Rashad	nym- /-e	RCS
Rashad	Tagoi	Tagoi	t-ɪnɪn/y-	RCS
Mande		Soso	nín	VV
Tegem-Amira	Lafofa	Tegem	ta-ɲ <i>pl.</i> ka-ɲi	Sch81b
Kordofanian	Talodi	Tocco	c-anyik /k-	RMB

8.	#ɲi	tooth			
Family	Subgroup	Language	Attestation	Source	
Kordofanian		*PR	*-ɲiŋ		
Kru		Aizi	ɲi	ALKrCI	
Kru		Tepo	ɲé	ALKrCI	
Atlantic	North	Sereer	ɲiɲ	Sg	
Atlantic	North	Diola Her	käɲiŋ(ək)	SIL93	
Atlantic	North	Mankanya	pə-ɲĩ	Wi07	
Gur		Deg	ɲiɲi /ɲiɲà	ALGCI	
Gur	Oti-Volta	Hanga	ɲini	Ma75	
Adamawa		Waja	nu-i	K196	
Adamawa	Jen	Dza	ɲi	UK	
Ubangian		P-Gbaya	*-ɲin	Mo95	
Bijogo		Caravela	ɲa-ɲi /ka-	Sg	
Kwa		Abure	éɲĩ	ALKwCI	
Kwa	GTML	Lelemi	lè-nyí /à-		
Kwa		Gonja	kəɲi	Sn89	
Kwa		Ga	ɲàɲɔ̃	Kr99	
VN	Nupoid	Nupe	ɲikã	Ba14	
Bantoid	Mambiloid	Ndoro	ɲin	BCCW	
Bantoid	Tivoid	Tiv	ɲix	check	
Bantu		PB	-yínò	BLR3	
Bantu		CB	-yínò	G	

9.	#-del	chin, beard			
Family	Group	Language	Attestation	Gloss	Source
		PWN	-dàd-		M
Tegem-Amira	Lafofa	Tegem	a'dagi	chin	Sch81b
Kru	Neyo		tata	menton	ALKrCI
Ubangian		Gbaya	zèrà	barbe	Ro08
Kwa	Guang	Nawuri	gà-dàà	beard, jaw	Sn89
VN	Igboïd	Igbo	ad̩ʒh etc.	body hair	COA
EBC	Lower Cross	Obolo	í-d̩ʒèt	beard	Co91
EBC	Lower Cross	PLC	*i-d̩èt	hair	Co91
EBC	Upper Cross	Otonkon	réd̩d̩ǎ	beard	St
Bantoid	Mambiloid	Mambila	deh <sup>2</sup>		PM
Bantoid	Mambiloid	Tep	d̩èrè	chin	Co
Bantoid	Buru	Buru	e-d̩ín (a-)		K
Bantoid	Tivoid	Tiv	índi'ér		Ab58
Bantoid	Beboid	Noni	ke-d̩éw		Hy
Bantoid	Nyang	Kenyang	bɛ-di		M
Bantoid	Eastern Grassfields	PEG	*-d̩il`		ELV
Bantoid	Manenguba	PM	*-jèd		He45
Bantu		PB	-d̩èdù		Mh/Gr

10.	heart, liver					
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWN	-timu	heart, (liver)	M	
Tegem-Amira	Lafofa	Tegem	ɬ-m/m-	heart	RCS	
Kordofanian	Talodi	Acheron	simi	heart	RCS	
Kru		Bete Daloa	drɪ	<i>coeur</i>	ALKrCI	
Atlantic	North	Bedik	i-til /mu-sil	heart	Wi07	
Atlantic	South	Baga S	t-im /m-	heart	Wi07	
Adamawa	Mumuye	Zing	sínsìh	liver	Sh83	
Gbaya		Bodoe	sèè	<i>foie</i>	Ro08	
EBC	Cross River	PUC	* `ttémà	heart	St	
Bantoid	Furu	Bikyak	ʃĩm	<i>Herz</i>	RK	
Bantoid	Dakoid	Nnakenyare	téém		Bo94	
Bantoid	Mambiloid	Mambila	temé <sup>21</sup>	liver	PM	
Bantoid	Ekoid	Mbe	bù-tèm/bè-	heart	Ba	
Bantoid	Tivoid	Tiv	ʃĩma	heart	Ab	
Bantoid	Menchum	Befang	ítóm	heart	Gu06	
Bantoid	Grassfields	Ngyembɔɔn	túm	heart	An	
Bantoid	Ring	Kom	atém	heart		
Bantoid		Koshin	ʃĩəm	<i>Herz</i>	RK	
Bantoid		Ndemli	tím	heart	Ng99	
Bantu		PB	*-tíma			
11.	meat					
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWS	-ka-	<i>Tier, Fleisch</i>	W	
Tegem-Amira	Lafofa	Amira	ka'a	meat	RCS	
Atlantic	North	Banhum	ka-xar /-əŋ	flesh, meat	Wi07	
Atlantic	North	Bedik	i-kal /u-hal	fish	Wi07	
	South	Gola	ekenu	flesh, meat	Wi07	
Kru						
Gur		Dɔgɔse	káásé	meat	Win07	
Ubangian		Mbanza	kāfá	<i>viande/chair</i>	Mo95	
Kwa		Ga	kòòlòò	animal	Kr99	
VN		Nupe	nākǎ	meat	Ba14	

12.		#(n)-tóN-	horn				
Family	Group	Language	Attestation	Source			
Rashad	Tagoi	Tagoi	ɬ-urɪŋ/ŋ-	RCS			
Tegem-Amira	Lafofa	Tegem	dui	Sch81b			
Gur		Dɔgɔsɛ	dátóŋɛ	Win07			
EBC	Plateau	Izere	ri-tóm /a-	RMB			
EBC	Plateau	Jijili	utuma	RMB			
EBC	Plateau	Pe	u-com /a-	RMB			
EBC	Cross River	Uda	ńdòk	Co91			
Bantoid	Ekoid	Nkim	ń-tâŋ /à-	C			
Bantoid	Mbe	Mbe	ń-tâŋ /bén-	BA			
Bantoid	Buru	Buru	e-θɔŋ /a-	Ko			
Bantoid	Momo	Mundani	ndɔŋ <sup>+</sup>	PD			
Bantoid	Ring	Aghem	ndónŋ	R			
Bantoid	Grassfields	PEG	*-dón`	ELV			
Bantu	Manenguba	PM	*-tónŋ	He272			
Bantu		PZA	*-tóngò	J			

13.		dog I	#gbêlě				
Family	Subgroup	Language	Attestation	Comment	Source		
		PWS	-b ú á		W		
		PWN	-bh ú a		M		
Dogon		Bondum	ŋ w ε		Ho04		
Ijoid		Kalabari	o b i r i		KW		
		Biseni	e b i r i		KW		
Defaka		Defaka	e b e r e		Je83		
Mande		Tura	gb ê êg				
		Susu	b a r e na				
		Mende	n g i l a				
		Boko	gb ê	/-ó			
Tegem-Amira	Lafofa	Tegem	bɛ -b u i	pl. ɛrui	Sch81b		
Kordofanian	Talodi	Eliri	b w a k	pl. abuk	RCS		
Atlantic	North	Serer	ɓ ɔ x		Sg		
	North	Pepel	ɔ -b o l		Sg		
	North	Manjaku	b u s		Do75		
		Bijogo	e b oo ɬ i	pl. i-	Sg		
Senufic		Nyarafolo	p ú n		ALGCI		
Kru		Guéré	gb e		ALKrCI		
		Aizi	v ε		ALKrCI		
		Seme	b u -o /-e	???	ALKrCI		
Gur		Moore	b a r a		Ma75		
		Gurma	b u a -ga	/-mu	Ma75		
		Dagare	b a r e		Ma75		
		Hanga	b a ˈ a		Ma75		
	Gurunsi	Delo	b a		Ma69		
		Waama	b ú u -ka				
		Bariba	gb o				
Adamawa		Waja	b a ɪ		KI96		
		Yungur	b w e		RMB		
		Mambei	v w a		Eguchi		
Ubangian	Sango	Yakoma	m b ò		Mo95		



Family	Subgroup	Language	Attestation				Comment	Source
		Ngbaka	b	ó	n	ǝ		Mo95
		‘Dongo-Ko	ɓ	é	l	à		Mo95
		Nzakara	b	a	n	á		Mo95
		Baka	b	ó	l	ó		Br10
Bijogo		Bijogo	e	b	o	o	t	Sg
Kwa		Abbey	ɣ	ó				ALKwCI
		Ebrié	gb			à		ALKwCI
	GTM	Nyangbo	é-	b	ú		/be-	He68
	Adangme		a	v	u			
	Ga		gb	è		é		Kr99
	Gen		à	v	ú	n		ALKwCI
VN	Yoruboid	PY	*a	by		á		KW
	Edoid	Uhami	à	b	ù	à		E89
	Nupoid	Gbari	o	m	u			RMB
EBC	Plateau	Yeskwa	e-	b	u			RMB
	Jukunoid	Kpan	i-	b	u			Sh80
	Cross River	Efik	e-	b	u	a		Co91
Bantoid	Dakoid			v	o	n	a	Boyd
	Mambiloid	Nizaa	ɓ	o	w			En
	Tivoid	Esimbi	è	b	ù			SIL
	Beboid	Noni		b	w	ě		
	Menchum	Befang		b	ú			Gu06
	Grassfields	Bafut	m̀	b	ú	è		
	Ring [?]	Ndemli	á	b	ò			Le99
	Momo	Ngie		b	é	w		SIL
Bantu	Ekoid	Mbe		b	o		g	Bamgbose (ms.)
		Duala	m	b	o			
		PB	*-b	ú		à	(9/10)	BLR3

14.	snake					
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWS	-guà-	<i>Schlange</i>	W	
		PWN	-ghw(y)ákà	snake	M	
Tegem-Amira	Lafofa	Tegem	weli	snake	RCS	
Atlantic Kru	South	Gola	ogwǎ			
Gur		Kuwaa	gběě	<i>serpent</i>	ALKrCI	
		Gulmance	wa	<i>serpent</i>	Ma75	
		Dəgəse	wò-ø /-lò	snake	Win07	
		Dagare	wabo pl. wiri	<i>serpent</i>	Ma75	
Ubangian		P-Gbaya	*gók	<i>serpent</i>	Mo95	
Kwa		Twi	ɔwó			
		Chumburung	kò-wó	snake	Sn89	
		Gun	èwò			
VN	Yoruboid	Igala	éjò			
	Edoid	Èdo	ènyé			
		Igbo	ágwó			
		Nupe	ewa	snake	Ba14	
		Idoma	ègwa		Ar64	
EBC	Kainji	Srubu	pi-yowo		BCCW	
	Plateau	Idun	i-yowo		BCCW	
		Horom	yò pl. iyò	snake sp.	RMB	
		Cara	yò pl. yó		RMB	
		Kulu	iyógó pl. iyogo		Mo	
	Jukunoid	Wapan	a-jǒ			
	Cross River	Yakö	yòl			
Bantoid	Mambiloid	Kwanja	yoò			
		Vute	ɲóó		Co	
	Dakoid	Nnakenyare	yée		B	
		Tiba	yóo		B	
	Buru	Buru	èyɔ /eyó		K	
	Tivoid	Tiv	i-yó			
	Jarawan	Jaku	yòyó			
	Nyang	Kenyang	nnyó		Mb	
	Beboid	Noone	yo pl. yó		Lu	
	Momo	Ngie	ijúgè		SIL	
		CB	-jókà, nyókà		G	
15.	#-ti	tree				
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWS	-tí-, -tú-	<i>Baum</i>	W	
		PWN	-ti		M	
Dogon		Tegu Ka	time		RMB	
Ijoid		Defaka	tĩ	tree	Je83	
Ijoid	Izɔn	Ikibiri	těĩ	tree	KW	
Tegem-Amira	Lafofa	Tegem	twii	stick	Sch81b	
Atlantic	North	Nalu	n-ti /a-	tree	Wi07	
Atlantic	South	Sherbro	tòk	tree	Wi07	
Bijogo		Bijogo	ɲu-te /mu-	<i>arbre</i>	Sg	
Senufic		Fondondo	tige	<i>arbre</i>	Bo81	
Kru		Wobe	tu	<i>arbre</i>	ALKrCI	
Gur		Kusaal	tii-ga /-se	<i>arbre</i>	Ma75	
Adamawa	Yandang	Bali	tí	tree	K&Y	

15.	#-ti	tree				
Family	Subgroup	Language	Attestation	Gloss	Source	
Ubangian		Mbodomo	tì	<i>arbre</i>	Mo95	
Kwa		Ewe	àtí		Ro	
Kwa		Abidji	tî		ALKCI	
VN		Yoruba	ítí	check	Ab58	
VN	Edoid	Degema	ó-tāĩ /í-		E86	
		Nupe	cigbǎ	tree	Ba14	
EBC	East Kainji	Sheni	u-ti /ma-		RMB	
EBC	Upper Cross	Lokə	kètí / yè-	tree	St	
EBC	Dakoid	Dō	ti	tree	RMB	
		Mambiloid	Warwar	tò	tree	
Bantoid	Tivoid	Esimbi	-tí	tree		
	Menchum	Modele	-tíó	tree		
	Beboid	Noni	-te	tree		
Bantu	Ekoid	Etung	é-tí /à-	tree	Cr	
		Mə̀dɛmba	tí	tree	BCCW	
Bantu		CB	-tí	tree	G	
		PB	tí	tree; stick	BLR 2881	
16.	tree					
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWS	-gi, -gil-, (-git-)	<i>Baum</i>	W	
Tegem-Amira	Lafofa	Amira	kwa	tree	McD	
Tegem-Amira	Lafofa	Tegem	kuwö(i) pl. bɔɔ(i)	tree	RCS	
Atlantic	South	Gola	kekuu	tree	Wi07	
Kru		Aizi	ke	<i>arbre</i>	ALKrCI	
Adamawa		Baa	kii /ri-kii	tree	UKW	
Ubangian		Ndunga-le	gá-	<i>arbre</i>	Mo95	
		Zande	ngūà	<i>arbre</i>	Mo95	
Kwa		Chumburung	kí-yí?	tree	Sn89	
Bantoid	West Momo	Ambele	gé-gyét /bé-	<i>arbre</i>	Pi	
	Tikar	Akuen	ɲgɛ?	<i>arbre</i>	Pi	
	Tivoid	Batu Angwe	ki-kye /bí-	tree	Ko	
17.	sun					
Family	Subgroup	Language	Attestation	Gloss	Source	
		PWS	-pat-	<i>Sonne</i>	W	
		PWN	bhal-	to shine, light	M	
		PWN	bhang-	shine (bright)	M	
Tegem-Amira	Lafofa	Tegem	pùù	sun	RCS	
Atlantic	South	Sherbro	pàl	sun	Wi07	
Adamawa		Kamo	fóóré	sun	K196	
Ubangian		Ngbaka	ǎái	<i>soleil</i>	Mo95	
		Ga	hũfũ	sun	Kr99	
VN		Yoruba	bà			
		Edo	bàá	shine (moon), become red	Ag86	
		Nupe	bá	shine, reflect	Ba14	
Bantu		CB	bád-			

18.					
Family	Subgroup	Language	Attestation	Gloss	Source
		#-kelu			
		PWS	-ki-, -kiu-	<i>Mond</i>	W
		PWN	-kiul-	moon	M
Ijoid		P-Ijɔ	akalɔ	moon	KW
Kaalak-Domurik		Kaalak	gelɔ	moon	Gi
Tegem-Amira	Lafofa	Tegem	kwɛl	moon	Sch81b
Kordofanian	Talodi	Masakin	kenā	moon	RCS
Atlantic	North	Ndut	cein	moon	Wi07
VN	Edoid	Emai	ùkĩ	moon	SE07
Bantoid		Buru	-kwē	moon	
Bantoid	Beboid	Noni	kwēē	moon	
Bantu		CB	-kúedi	moon	G
19.					
Family	Subgroup	Language	Attestation	Gloss	Source
		PWN	-tsondua? (-tondua)	star	M
Rashad	Tagoi	Orig	ʈ-ɛ̀lɛp/ɲ-ɛ̀lɛp-ɔt	star	SE
Tegem-Amira	Lafofa	Tegem	tɔ-ʈɔɔi /mə-	star	Sch81b
Atlantic	North	Nalu	ma-saar /be-	star	Wi07
	North	Sua	(f)-sahan /-an	moon	Wi07
Kru		Bete G	zèlɪ	<i>étoile</i>	ALKrCI
Adamawa	Mumuye	Zing	seɲ	star	Sh83
Ubangian		P-Gbaya	*sóra	<i>étoile</i>	Mo95
Kwa		Ga	coco!óbí	morning star, moon	Kr99
VN	Yoruboid	Yoruba	oʃũ	moon	
	Ayere-Ahan	Ayere	osu, ofu	moon <sup>2</sup>	
	Nupoid	Nupe	tswã-gi <sup>3</sup>	star	Ba14
EBC	Plateau	Mada	ntsē		Pr
	Jukunoid	Wapan	a-tswí		Sh
Bantoid	Mambiloid	Tep	swauʋa		Co
	EG	PEG	*-sàŋʻ		ELV

<sup>2</sup> ? < Yoruba

<sup>3</sup> -gi = 'small' (lit 'small moon')

20. Family	#te(d)- Subgroup	fire Language	Attestation	Gloss	Source
		PWS	-tá-	<i>Feuer</i>	W
		PWN	tem-	burn	M
Mande		Wan	té		HTT
		Jeri	tá		Sg
		Bokobaru	té		RJ
Tegem-Amira	Lafofa	Tegem	ʈ-éé	fire	RCS
Kordofanian	Talodi	Talodi	ʈek	fire	RCS
Senufo		Kulango	dəgə		M&T
Atlantic	North	Sine	fidɛl	fire	Wi07
Atlantic	North	Mankanya	tet	(p-/m-)	Sg
Atlantic	North	Mankanya	tər	burn	Wi07
Atlantic	South	Baga Ma	tɛ	burn	Wi07
Kru		Aizi	lede	<i>feu</i>	ALKrCI
Gur	Oti-Volta	Bieri	daam	<i>feu</i>	Ma75
Adamawa		Tuboro	hò'de		B
Ubangian		'Baka	dè	<i>bruler</i>	Mo95
Kwa		Ebrie	átɛ̀		ALKwCI
		Mbatto	óɔ́		ALKwCI
	Guang	Nawuri	dʷééʔ	burn	Sn89
VN		Nupe	dĩ	burn	Ba14
Bantoid	Ekoid	Ejagham	rík	burn	Wa
Bantu		PB	didò	JLMNRS	BLR3
		CB	tèem-	burn	G

21. Family	stone Subgroup	Language	Attestation	Gloss	Source
		PWS	-ta-, -tali	<i>Stein</i>	W
		PWN	-thála, -tháli	stone (rock)	M
Tegem- Amira	Lafofa	Tegem	t-e/m-	stone	RCS
Atlantic	North	None	atox	stone, rock	Wi07
Atlantic	North	Konyagi	ì-táká / wə̀-r	stone, rock	Wi07
Atlantic	South	Landuma	a-saar /ε-	stone, rock	Wi07
Adamawa		Mumuye	tar-a	stone	Sh83
		Mambay	sáà	stone	AN10
Gbaya		P-Gbaya	*tà	<i>pierre/caillou</i>	Mo95
Kwa		Ga	té	stone	Kr99
VN		Nupe	tákù	stone	Ba14
Bantu		PB	tádè	stone, iron ore	BLR3

22.	#-lim-	man				
Family	Subgroup	Language	Attestation		Gloss	Source
Kaalak-Domurik		Kaalak	-dime /a-		man	RCS
Tegem-Amira	Lafofa	Tegem	ka-mee /a-		man, person	Sch81b
Kru		Nyabwa	jimĩḙ		<i>époux</i>	ALKrCI
Kwa		Ga	àlómó	fashionably dressed woman		Kr99
EBC	Ogonic	Gokana	dóm		husband	Vo92
Bantoid	Ekoid	Ejagham	ndûm		husband	Wa
Bantoid	Ring	Bafmeng	undom		husband	Hy
Bantoid		Ndemli	lôm		husband	Ng99

23.		to arrive, reach				
Family	Subgroup	Language	Attestation		Gloss	Source
		PWN	thu-, thuk-		come from	M
Kaalak-Domurik		Domorik	diaŋ			RCS
Tegem-Amira		Lafofa	[kɪ]dʒèn		come	RCS
Atlantic	North	Banhum	dek-t		come	Wi07
	South	Baga Ma	deer		come	Wi07
Kru		Grebo	dí			M
Ubangian		Bare	dí		<i>venir</i>	Mo95
Bijogo		Bijogo	dɛna		come	Sg
Kwa	Central-Togo	Nkonya	dù		reach	Hof
		Twi	du		arrive	
VN		Nupe	tũ	arrive, come		Ba14
Bantoid	Beboid	Noone	tó		come	Lu
		PB	du		come	BLR3
		CB	túuk-		come from	G

24.	#rik-	eat				
Family	Subgroup	Language	Attestation		Gloss	Source
		PWS	lì, lià		<i>essen</i>	W
		PWN	di-		eat	M
Dogon			—			Ho04
Ijoid			—			KW
Banjeri Mɛ		Banjeri Mɛ	dia	<i>manger</i>		Ho04
Kaalak-Domurik		Domurik	áluk	eat		RCS
Mande		Mwi	li			W
Mande		Bozo	dye			W
Tegem-Amira	Lafofa	Tegem	rri	eat		Sch81b
Tegem-Amira	Lafofa	Tegem	rik	eat		RCS
Kordofanian	Talodi	Masakin	rigo	eat		RCS
Kru		Grebo	dí	<i>manger</i>		ALKrCI
		Bete Daloa	lí	<i>manger</i>		ALKrCI
Atlantic	North	Wolof	lèkk			
		Papel	dɛ?	eat		Wi07
	South	Temne	di	eat		Wi07
Gur		Bieri	di	<i>manger</i>		Ma75
		Hanga	di	<i>manger</i>		Ma75
		Degha	dì	<i>manger</i>		ALGCI
		Kulango	dìgè	<i>manger</i>		ALGCI
Adamawa		Koh	re			U
		Mono	ri?i			E

Ubangian		Zande	ri	<i>manger</i>	Mo95
Kwa		Abure	li	<i>manger</i>	ALKwCI
VN	Igboid	Proto-Igboid	*dĩ		KW
EBC	Plateau	Eloyi	rí		RMB
	Cross River	Ikom	dí		St
Bantoid	Dakoid	Dõ	ri	eat	RMB
Bantoid	Beboid	Noni	dié	eat	Lu03
Bantoid	Tivoid	Esimbi	-rī	eat	Stxx
Bantoid	Ekoid	Balep	lí	eat	Cr65
Bantoid	Grassfields	Ndemli	dí	eat	Ng99
Bantoid		Dzodzinka	l̄	eat	P
Bantu		PB	dí	eat	BLR3
	Jarawan	Bada	li	eat	

25.	#-(m)bale	two, twins			
Family	Subgroup	Language	Attestation	Gloss	Source
		PWS	-bà-		W
		PWN	-bàli		M
Ijoid		P-Ijọ	māamó		KW
Mande		Jogo	fàlá		VV
Tegem-Amira	Lafofa	Amira	pelě	two	RCS
Atlantic		Nalu	bele	two	Wi07
	South	Temne	kəbarí	twin	Da66
Kru		Konobo	buwe	<i>deux</i>	ALKrCI
Adamawa		Mumuye	bá	bear twins	Sh83
Adamawa		Mambay	ɓàti	<i>deux</i>	EA
Gbaya		P-Gbaya	*bùà	<i>deux</i>	Mo95
Kwa		Nyangbo	èbà	two	Ca
VN	Yoruboid	Yoruba	ibeji	twins	Ab58
VN	Nupoid	Nupe	èbà	twins	Ba14
VN	Edoid	Èdo	èvá	two	Ag86
VN	Idomoid	Idoma	èpà		Ar64
EBC		P-Ikaann	wà		Abd
EBC		Efik	ibà		Ad
EBC	Plateau	Cori	fali		Di
EBC	Jukunoid	Kuteb	ifě		RKo
Bantoid	Furu	Bikyak	fǎ		RK
Bantoid	Beboid	Naki	fǒ		Go
Bantoid	Ekoid	Balep	bé-fál		Cr69
Bantoid	Grassfields	Ambele	bè		Ng01
Bantu	Grassfields	Yamba	bá		Ne07
Bantu		CB	-bàdí, -bidí, -bídi		G
		CB	-pácà	twin	G

26.	#-taN-	bow			
Family	Subgroup	Language	Attestation	Gloss	Source
		PWS	-tà-	<i>schießen, Geschöß, Bogen</i>	W
		PWN	-tá-	bow; shoot with bow	M
		Bangi Me	ta	shoot	RMB
Dogonic		Tɔrɔ	tó		C-G68
		Donno Sɔ	tò		Ke93
Ijoid	Izọn	Kolokuma	tēi	to shoot	KW
Kordofanian	Talodi	Tegem	thaaɪ	bow	Sch81b

26.	#-taN-	bow				
Family	Subgroup	Language	Attestation	Gloss	Source	
Mande		Boko	sa			Pr53
		Mana	sā'			Pr53
Unclassified		Pre	ta			Cr (ms)
Atlantic		Bassari	ɑ-tũmb			Fe9
	South	Gola	ta	shoot with bow		
Kru		Seme	tã			
Gur		Dagare	tam-o		<i>arc</i>	Ma75
		Moore	ta-ba		<i>arc</i>	Ma75
		Mampruli	toro		<i>arc</i>	Ma75
		Buli	tɔmɔ		<i>arc</i>	Ma75
Adamawa	Mumuye	Mumuye	ta	shoot		Sh83
	Vere-Duru	Momi	taa-u			
Ubangian		Gbaya	kusaa <sup>+</sup>			BN82
Kwa		Akposo	kutá			
Kwa		Twi	òtá			
		Gonja	kè-tá		bow	Sn89
		Ga	cě́, cwà		shoot	Kr99
VN		Emai	sa		to shoot	SE07
	Igboid	Igbo	ótá			
	Nupoid	Nupe	tanci		bow	Ba14
		Idoma	òta			Ar64
EBC	Kainji	Piti	o-ta			
	Jukunoid	Kuteb	kù-tá /à-			Ar64
Bantoid	Tivoid	Tiv	ta			
Bantu		*PB	*bo-ta			

27.	#-gbo-	baboon			
Family	Subgroup	Language	Attestation	Source	
Mande		*PSWM	*ń-gbɔŋ	VV	
		Bambara	ngɔ́n	Ba2000	
Kordofanian	Tegem	Tegem	bɔli	Sch81b	
Senufoid		Supyire	bòŋo	Carlson	
Gur		Dəgəɛ	gbègè-wè /-mè		
Adamawa	Mumuye	Zhing	gbāgbāli	Sh83	
Gbaya		Bodoe	gbàdàwà	Ro08	
VN	Nupoid	Nupe	gbògi	Ba14	
EBC	W. Kainji	Lopa	gbədəgi		
	Platoid	Izere	àgbóòm	RMB	
		Aten	bagu	RMB	
		Berom	bōgòm	RMB	
		Fyem	gwòm	RMB	
Bantoid	Dakoid	Dɔ̃	gbɔŋ	RMB	
Bantoid	Grassfields	Limbum	mbù	RMB	

28.	elephant			
Family	Subgroup	Language	Attestation	Source
		PWS	-ni-	W
		PWN	-ní-, -niang-	M
Dogon		Mombo	nige	Ho04
Kordofanian		Tegem	yu:ŋi	RCS



Atlantic		Pulaar	nyiiwa (ba)	Sg
		Serer	ɲig	Sg
Ubangian		Mba	ɲiá	Mo95
Ubangian		Ngbaka	yià	Mo95
Kwa		Avatime	ó-nyi /bé-	Heine (1968)
Kwa		Ewe	àtíglínyì	R
VN		Èdo	èní	Ag86
VN		Igbo	enyi	KW72
EBC	Plateau	Mada	ɲi	RMB
EBC	Cross River	Anaang	é-nì:n	Co91
EBC	Cross River	Tẹẹ	nĩ	NB94
Bantoid	Momo	Ngie	anyifom	SIL
Bantu		CB	-niangá	G
Bantu		PB	yògù	BLR3 K M N P S

29.	#tatu	three			
Ph	Family	Subgroup	Language	Attestation	Source
NC			PWN	-tháthu	M
NC	Dogon		Yanda	taandu	RMB
NC	Ijoid		Ijọ	taaru	KW
NC	Ijoid		Defaka	táátó	Je83
NC	Kaalak-Domurik		Kaalak	atat	RCS
NC	Rashad	Tegali	Rashad	ndə́tá	RCS
NC	Rashad	Tagoi	Orig	witta	SE
NC	Mande		Soso	sàxán	VV
NC	Tegem-Amira	Lafofa	Amira	tare	RCS
NC	Atlantic	North	Fulfulde	tati	No89
NC	Atlantic	North	Cassanga	-taar	Wi07
NC	Atlantic	South	Gola	táal	We21
NC	Kru		Wobe	tãã	ALKrCI
NC	Gur		Oti-Volta	*ta	Ma75
NC	Adamawa		Dii	tãã́nó	Bo89
NC	Adamawa		Mumuye	tat	Sh83
NC	Ubangian		‘Bodoe	tààr	Ro08
NC	Gbaya		Logba	ita	
NC	Kwa	Guang	Gonja	àsá	Sn89
NC	Kwa		Twi	èsá	
NC	Kwa		Ewe	etō	
NC	Kwa		Ga	é'té	Kr99
NC	Kwa		Ega	ità	ALKCI
NC	VN	Yoruboid	Yoruba	èta	
NC	VN	Edoid	Epie	isáa	E83
NC	VN	Igboid	Igbo	àtó	
NC	VN	Nupoid	Nupe	gútá	Ba14
NC	VN	Idomoid	Idoma	étá	Ar64
NC	Ukaan		PU	tás	Abd
NC	Ayere		Ahan	ítá	FI
NC	EBC	Kainji	Lopa	taara	RMB
NC	EBC	Plateau	Fyem	táát	RMB
NC	EBC	Lower Cross	Anang	ità	Co91
NC	Bantoid	Mambiloid	Somyev	taar	Co
NC	Bantu		PB	tátò	BLR3 2811

30. Family	new Subgroup	Language	Attestation	Gloss	Source
		PWN	-phua-, -phwai-	new	M
Tegem- Amira	Lafofa	Tegem	bɛ(lili)	new	Sch81b
Tegem- Amira	Lafofa	Tegem	péélɪŋ	new	RCS
Atlantic Gur	South	Sherbro	sana	new	Wi07
		Dɔgɔsɛ	fɛn-	new	Win07
Adamawa		Mumuye	polo	new	Sh83
Ubangian		Kpatiri	fàná	<i>neuf, nouveau</i>	Mo95
		Ama-lo	fõ	<i>neuf, nouveau</i>	Mo95
Kwa		Gonja	pópôr?	new	Sn89
		Ga	hèè	new	Kr99
Bantoid	Grassfields	Limbum	fɪ [M]	new	SIL
Bantoid	Grassfields	Ndemli	fěfě	new	Ng99