

Logoori-Tiriki Comparative Noun Tone

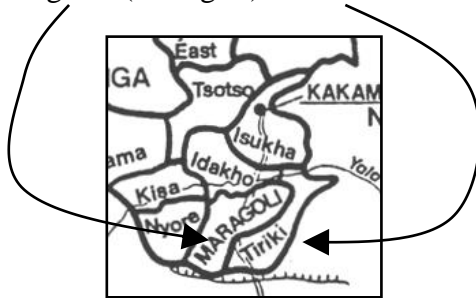
Michael R. Marlo

University of Missouri

David Odden

University of Washington, Ohio State University

Empirical Hypothesis: It is possible to reconstruct the tone of the latest shared ancestor of Logoori (Maragoli) and Tiriki



How to reconstruct noun tone of proto-Tiriki-Logoori:

Line up the proto-Tiriki nouns with the proto-Logoori nouns.

Why not just compare the tones of nouns in Tiriki with the tones of nouns of Logoori?

Variation in tonal form arises from subsequent confounding factors

‘rabbit’ in Logoori (11 speakers)

ki-sóngora	kí-sóúngora	kí'-sóngóra	ki-sóó'ngóra
kí'-sóúngóra	ki-sóú'ngóóra	kí-sóú'ngórá	

H ki-sóngora, kí-sóúngora (21%)

HH# kí-sóó'ngórá (34%)

HH ki-sóó'ngóra, kí'-sóúngóra, ki-sóú'ngóóra (45%)

Which form should be compared to Tiriki [ʃisúúngula]? H is the least frequent, but the most similar

Should this noun be included at all? (Probably a later loan from Swahili)

‘announcement flute, megaphone’

Logoori	H	ri-dúúreere	22%	HH	ri-dúú'reére	8%
	HF	ri-dúú'reére	39%	HH#	ri-dúú'reéré	31%
Tiriki	HF	ín-dúú ⁺ léé.la	83%	HH	tsíín-dú ⁺ léé.la	16%

Exclude post-*proto* loans (how stringently should exclusion criteria be applied?)

<i>Tiriki</i>	<i>Logoori</i>		
ínúkúta	múguda	‘letter (alphabet)’	Proto Luyia predated local alphabet; form variation
ǰí [↓] .líimbóto	íkiriimbóoto	‘flea’	From Sw. <i>kiroboto</i> , t=t is unhistorical
ísóti	esooti	‘vulture’	Nilotic (Luo <i>achuth</i> , Nandi <i>chep-sengwet</i>), t=t
ítúika	itúiga	‘giraffe’	Swahiili <i>twiga</i> , t=t

Some loans look old enough (expected correspondences) to not expel

<i>Tiriki</i>	<i>Logoori</i>		
lí [↓] pwóoni	irí [↓] bwóoni	‘potato’	Luo <i>rabuon</i>
italani	idaranyi	‘lion’	Iraqw <i>diraangw</i>

The General Picture

Tones of Tiriki and Logoori nouns are basically the same.

Tiriki shifted certain final Hs to the penult: Logoori better reveals the earlier system

Both languages “tend” to turn F into H, Logoori more so than Tiriki (?)

Where did H vs. Fall come from?

Logoori has a “trend” to put everything in the single-H class

About 80% of our examples have a comprehensible relation to a protolanguage tone pattern

Overview of the tone patterns, Logoori perspective

0, 1 or 2 H tones

Single H usually root-initial; a few cases have H on σ_2

H on prepausal long penult is realized level vs falling, lexically governed

2-H nouns have second H on final or penult (lexical)

First H is predictably pre-stem or stem-initial (stem-initial if following V is not short H)

L	‘measles’	eke-heregete
H	‘finger’	eke-déte
2	‘prominent buttocks’	í-gívíní
F	‘man’	omó-sáaza
H	‘lake’	í-páánza
HH	‘lizard’	írí ¹ -syáágári
HH#	‘infant’	ín ¹ -dááná
HF	‘potato’	írí ¹ -bwóoni

Simple correspondences: Tiriki and Logoori tones are identical

L	<i>Tiriki</i>	<i>Logoori</i>	117 examples
‘blood’	lii-saahi	ama-saahi	
‘animal room’	ʃi-ko	eke-go	
‘rat’	im-beva	em-beva	
‘measles’	ʃi-helekele	eke-heregete	
<i>Basella alba</i>	in-delema	en-derema	
‘desert’	ʃ-aangalaangwe	ich-aangaraangwe	
‘lion’	i-talaji	i-daranyi	
‘virgin boy’	mu-sooleeli	omɔ-sooreeri	
H	<i>Tiriki</i>	<i>Logoori</i>	86 examples
‘granary’	ʃy-áátʃi	orw-ááchi	
‘finger’	ʃi-téɣe	eke-déte	
‘snake’	ín-zúxa	en-zóka	
‘wild pig’	ím-bíítsi	im-bíízi	
‘lake’	í-jaánza	i-jaánza	
‘old man’	mú-sááxulu	omɔ-sáákuro	
‘grandchild’	mw-íítsuxula	omw-íísukuro	
‘poverty’	vú-mánani	ovo-mánani	

σ₂		<i>Tiriki</i>	<i>Logoori</i>	3 examples
	‘jealousy’	ím-bótóxa	em-bódóka	
	‘big buttocks’	í-tʃívíni	í-gívíni	
	‘epilepsy’	ín-dúlúme	ín-dúrúme	

Fall is problematic

Penult Fall vs. level H technically contrast in both language. Tiriki “favors” Fall, Logoori “favors” H.

H ~ F variation exists in both languages. Tiriki F corresponds to Logoori H sometimes, Tiriki H corresponds to Logoori F once (*lw-éévo*, *orw-éévo*: experimental error?).

Deeming the tone of a word tone to be Fall vs. Level H requires further scrutiny in both languages – part of the proto-Logoori, proto-Tiriki desideratum

F=F		<i>Tiriki</i>	<i>Logoori</i>	29 examples
	‘milk’	má-véele	aám-béere	
	‘jigger’	í-néende	é-ng’éende	
	‘sheep’	lí-kóondi	ri-góondi	
	‘man’	mú-sáatsa	omv-sáaza	
	‘child’	mw-ána	omw-ána	
	‘month’	mw-éeli	omw-éri	

F(H)>H, 50% have tone doublets in Tiriki

18 examples

	<i>Tiriki</i>	<i>Logoori</i>
‘pot’	í-ńúũngu	í-nyííngu
‘neighbor’	mú-ṛéende	m-téénde
‘grass sp.’	ʃí-véembe	e-véembe
‘body hair’	vw-óoya	ovw-óóya
‘quail’	í-síindu ~ í-sííndu	ɪ-sííndu
‘crust’	líí-lóondo ~ líí-lóóndo	ɪl-lóóndo
‘valley’	lú-váanda ~ lú-váánda	íkí-váánda
‘tree’	mú-sáala ~ mú-sáála	omɔ-sáára

H=H (no attested variation in Tiriki)

10 examples

	<i>Tiriki</i>	<i>Logoori</i>
‘lake’	í-ńáánza	ɪ-ńáánza
‘rooster’	í-tááywa	ɪ-dááywa
‘monkey’	í-xóóndo	eke-kóóndo
‘bean’	líí-káánda	iri-gáánda

Both languages have some tendency to turn F into H; there is no contrary H > F tendency. Logoori may more strongly tend to level falling tones

Double-H patterns

HF		<i>Tiriki</i>	<i>Logoori</i>	4 examples, note H~F variation
	‘skipper’	ím-bé ⁺ .léɛndʒe	é ¹ m-béréenge	
	‘peanut’	í ⁺ n-dʒúuku	í ¹ n-jóɔgɔ	
	‘potato’	líí ⁺ -pwóoni	irí ¹ -bwóoni	
	‘maize’	líí ⁺ -túuma ~ líí ⁺ -túúma	irí ¹ -dúuma	
HH (short penult)		<i>Tiriki</i>	<i>Logoori</i>	5 examples
	‘ant sp.’	í ⁺ n-dúkúli	í ¹ n-dógónyi	
	‘pig’	í ⁺ ŋ-gúlúme	í ¹ n-góróve	
	‘lizard’	líí ⁺ -syáákáli	irí-syaagári	
	‘cockroach’	lii ⁺ -sílíli	irí ¹ -síríhi	
	‘bowl’	ʃi-pí ⁺ .láúúni	ɪki-bí ¹ .ráóóni	

Double H w. penult H is low-frequency in Logoori

Tiriki HH (short) penult has two historical sources, see below

The problem of final H

CV H	<i>Tiriki</i>	<i>Logoori</i>	14 examples
‘louse’	ín-da	ín-dá	
‘head’	mú-r̥wi	omó-twí	
‘Napier grass’	lú-si	uró-sí	
‘crotolaria’	mú-ro	imí-tó	

Logoori CV# shifts to penult in Tiriki.

Logoori CV# may also shift to penult in Logoori.

‘alcohol’	ámá-rwá	ámá ¹ -rwá	ámá-rwa
‘bow’	ovó-tá	ovó ¹ -tá	ovó-ta
‘louse’	in-dá	í ¹ n-dá	ín-da
‘Napier grass’	uró-sí	uró ¹ -sí	ró-si
‘firewood’	uró-kó	uró ¹ -kó	uró-ku
‘hair’	iríí-só	iríí ¹ -só	iríí-su
‘finger millet’	ovó-ró	ovó ¹ ró	
‘dog’	ím-bwá	í ¹ mbwá	

Leftward shift of final H as part of Tiriki synchronic tonology. Near future: H roots have H on root σ_1

a-la[vír-a]	‘he will pass’	a-la[léer-a]	‘he will bring’
a-la[vúkul-a]	‘he will take’	a-la[kálaang-a]	‘he will fry’
a-la[xóómool-a]	‘he will make faces’		

With CV roots, H is pre-root

a-lá[ly-a]	‘he will eat’
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H retracts only pre-pausally

a-la[ly-á] vwaanggu	‘he will eat quickly’
a-la[vék-a] vwaanggu	‘he will shave quickly’
a-la[vóyoŋan-a] vwaanggu	‘he will go around quickly’

With a following modifier, CV H nouns have the H word-finally (downstepped H after is predicable)

‘N’	‘good N’	
lú-sya	lúsyá †lúláhi	‘branch’
vú-si	vúsí †vúláhi	‘flour’
lí-swi	líswí †líláhi	‘hair’
mú-rwi	múrwi †múláhi	‘head’

Class prefixes in Tiriki are underlyingly L: [lú-sya] ← /lu-syá/ is synchronically recoverable

“Issues” with final H are widespread in Luhya, e.g. selective leftward shift of final H’s (which ones?). See M₂ pattern for H roots, avoiding final H:

a-li[ly- <u>a</u>]	‘he will eat’
a-li[v <u>e</u> k-a]	‘he will shave’
a-li[te <u>e</u> x-a]	‘he will cook’
a-li[v <u>u</u> kúl-a]	‘he will take’
a-li[voyó <u>ŋ</u> án-a]	‘he will go around’
va-li[te <u>e</u> x-án-ír-a]	‘they will cook for e.o.’

Melodic H on CV stems does not shift, on CVCV stems it does

a-li[tsy- <u>á</u>]	a-li[tsy- <u>á</u>] vwaan <u>ŋ</u> u	‘he will go (quickly)’
a-li[lím- <u>a</u>]	a-li[lím- <u>á</u>] vwaan <u>ŋ</u> u	‘he will dig (quickly)’
a-li[vaká <u>l</u> -a]	a-li[vaká <u>l</u> -a] vwaan <u>ŋ</u> u	‘he will spread out to dry (quickly)’
va-li[molóm-er-an-ir-an-a]	(vwaan <u>ŋ</u> u)	‘they will talk for each other (quickly)’

Details of final retraction in Tiriki need further investigation. It is not a superficial phonetic process, it is a complex phonological rule.

Consequences of final retraction, in HH# nouns

Logoori HH# → Tiriki HH: HH# plus retraction of final H in Tiriki 9 examples

	<i>Tiriki</i>	<i>Logoori</i>
‘chicken’	í [↓] ŋ-góxo	é [↓] -ngókó
‘sunbird’	mú [↓] -tsúni	omó [↓] -zúné
‘squirrel’	ʃí-ká [↓] mánʷa	ɪkɪ-já [↓] mápó
‘liver’	íŋ-gú [↓] rúmáni	iri-kó [↓] dómání
‘tent’	líí-táálaandálwa	iri-dáá [↓] ndárwá



HH# with long penult:

→ H + F, H in Tiriki (doublets attested)

	<i>Tiriki</i>	<i>Logoori</i>
H	‘infant’ í [↓] -ndáána	ín [↓] -dáána
	‘chicken flea’ vú [↓] -lóólo	éké [↓] -róóró
F	‘chameleon’ í [↓] -páambu	í [↓] -páambú
	‘gum’ vú [↓] -líimbo	ovó [↓] -ríimbú

H~F	‘ant’	lí ⁺ -móoŋo ~ líí ⁺ -móoŋo	irí [!] -móoŋó
	‘vegetable’	líí ⁺ -súutsa ~ líí ⁺ -súútsa	irí [!] -súúzá
	‘key’	lú ⁺ -fúuŋgu ~ lú ⁺ -fúúŋgu	oró [!] -fúóŋgó
	‘squirrel’	ʃí ⁺ -múuna ~ ʃí ⁺ -múúna	ikí [!] -móóná
	Like í ⁺ ŋgóxo with penult H~F puzzle		

Cases of unretracted final H: cl. 1a nouns

	<i>Tiriki</i>	<i>Logoori</i>
‘cousin’	mu-syaalá	mɔ-syaará
‘in-law’	mu-xwaasí	mɔ-kwaasi
‘sibling-in-law’	mu-lamwá	mɔ-ramwá
‘grandfather’	kuuká	guugá
‘uncle’	xootsá	koozá
‘grandmother’	kuuxú	gúóko
‘aunt’	seenjé	sééŋge
‘mother’	ɲina	ńnyá
‘father’	isé ~ ise	íse

Originally HH# (a pattern?)

Lack of H₁ *in the singular* is related to lack of augment

H₁ comes *from* the augment

Not totally regular but frequent

Tiriki L → Logoori H

16 examples

	<i>Tiriki</i>	<i>Logoori</i>
‘blackjack’	lu-kohe	oro-góhe
‘fig tree’	mu-xuyu	umɔ-kóyɔ
‘cold’	vu-tsiililu	vɔ-zíllɔ
‘whirlwind’	ʃi-kukuti	ɪkɪ-kógɔti
‘flat land’	ʃi-ɾeJemo	eke-réremo
‘stalk’	ma-sakati	ama-ságati
‘sparrow’	lii-toondolitsi	ɪri-dóóndolizi
‘peak’	in-dooŋgoosi	en-dóóŋgoosi
‘woodpecker’	ʃi-xooŋoondi	en-góóŋgoondi
‘pot’	ʃi-paandzi, ʃi-páandzi, ʃi-pááandzi	ɪkɪ-báanji
‘knife handle’	ʃi-luungu, ʃi-luungu, ʃi-lúungu	ɪkɪ-róóŋgɔ
‘gourd’	ʃi-saanda, ʃi-sáanda, ʃi-sáanda	ɪkɪ-sáánda

A developing tone change in Logoori: L words shift to the H class (rampant in the verb system, ex-tant in nouns)

Summary:

86% of 413 cognate nouns are have strictly regular or reasonable regular correspondences (modulo H ~ F variation and spontaneous L→H in Logoori)

We can invent more sub-classes to label repeated trends in the remainder:

Tiriki HH > single-H (Logoori)

	<i>Tiriki</i>	<i>Logoori</i>
‘scar’	í ⁺ -mbála	im-bára
‘cheek’	í ⁺ -ndáma	ín-dáma
‘hoof’	ím-bá ⁺ káyu	oró-hágayo
‘chain’	mú-nó ⁺ lóló	omó-nyólolo
‘amaranthus sp.’	líí-vó ⁺ kóyi, líí-vókoyi	iri-vógoyi
‘fingernail’	líí ⁺ -sáánda, líí-sáánda	iri-sáánda

And the opposite:

	<i>Tiriki</i>	<i>Logoori</i>
‘spleen’	lú-hííma, líhíma	oró ¹ -hí(í)má
‘skull’	ʃí-háánga	íkí ¹ -háángá
‘bone’	ʃí-kúúmba	kí ¹ -gúómbá
‘stupidity’	vú-hííngwa	ovó ¹ -yííngú

CV H>L

	<i>Tiriki</i>	<i>Logoori</i>
‘mouth’	mu-nwa	ómó ¹ -nwá
‘mortar’	ʃi-nu	íkí-nó
‘metal’	ʃi-vya	íkí-vyá

Longer HH#(Logoori) > L (Tiriki)

	<i>Tiriki</i>	<i>Logoori</i>
‘hippo’	iŋ-guvu	íngóvó
‘seizure’	lu-tetʃe.la	ró-dé ¹ gérá
‘protrusion’	ʃi-kukupi	íkí-gó ¹ gónó
‘basket’	ʃi-hiinda, ʃi ⁺ híinda	íkí ¹ -hííndá
‘termite’	lii-fweete.le	iri-fwéé ¹ déré
‘whydah’	ʃi-siimbiki.la	íkí-síí ¹ mbííkírá

Plain old irregular

	<i>Tiriki</i>	<i>Logoori</i>
‘fog’	luumbi	il-lóómbi
‘milk cow’	i-twaasi	í-dwáasi
‘clay paste’	lu-tuumbi	oro-dúumbi
‘mantis’	í-swéé ⁺ néene	i-sweenene