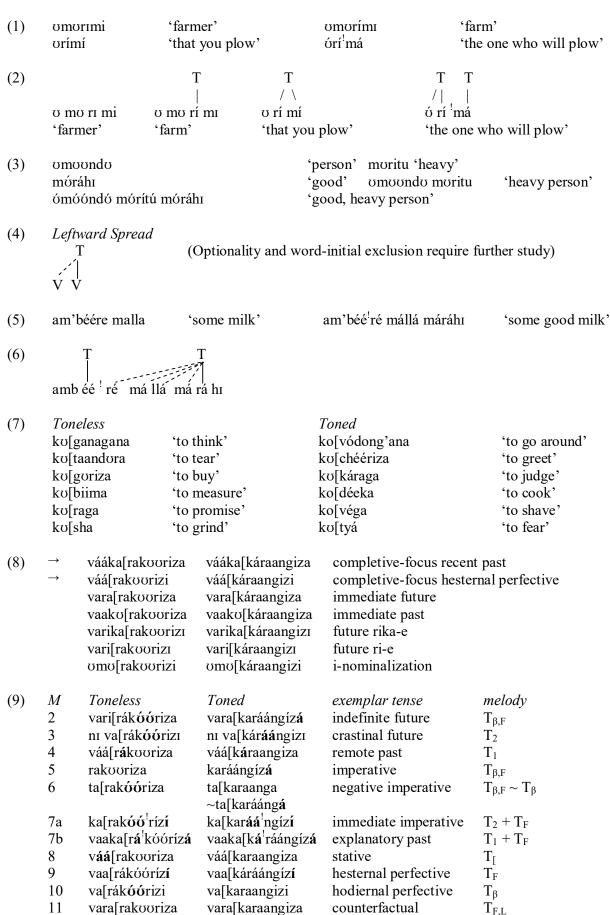
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## https://bit.ly/3Svzdge for full paper



 $\begin{array}{cccc} (10) & T {\rightarrow} \emptyset & T' & & \textit{Tone Deletion} \\ & & & \\ & & V & & \end{array}$ 

(11) Elementary tone feature synopsis

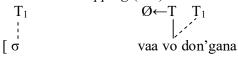
 $T_1$  First stem syllable  $T_2$  Second stem syllable  $T_1$  Word-initial  $T_3$  Second stem vowel  $T_4$  Word-final  $T_4$  Not raised pitch  $T_5$  (final or result of deletion)

T<sub>L</sub> (final or result of deletion)

(12) **M4** remote: toneless remote: toned

váá[ríma'they plowed'váá[véga'they shaved'váá[váriza'they counted'váá[káraga'they judged'váá[gánagana'they thought'váá[vódong'ana'they went around'

(13) Stem-initial mapping (M4)



(14) **M8** stative: toneless stative:

váá[rīma 'they are having plowed' váá[vega 'they are having shaved' váá[variza 'they are having counted' váá[karaga 'they are having judged' váá[ganagana 'they are having thought' váá[vodong'ana 'they are having gone around'

(15)  $T_{[}$  Word-initial mapping (M8)  $f_{\#} \sigma$ 

(16) M3 subjunctive toneless toned gloss: 'they will \_\_'

nı va[rák**ó**órizı 'make release' nı va[káráángizı 'make fry' nı va[gán**á**gánırı 'think for' nı va[vódóng'ánırı 'go around for' nı va[gánágáne 'think' nı va[vódóng'áne 'go around' nı va[rák**ú**ʊrı 'release' nı va[káráange 'fry' nı va[táánd**ú**rí 'tear' nı va[chéérízí 'greet' nı va[górízáange nı va[kárágáange 'continue judging' 'continue selling' nı va[bíím**í** 'measure' 'cook' nı va[déék**é** nı va[rág**é** 'promise' 'shave' nı va[végé nı va[shí 'grind' nı va[tyí 'fear'

(17)  $T_2$  Second-syllable mapping (M3)  $\sigma$ 

(18)  $T_2$  Rightward Doubling

nı va[táándórı → nı va[táándórí 'they will tear'

váátaandura (\*váátáándura) 'they are in the state of tearing'

váát**áá**ndora (\*váát**áá**ndóra) 'they tore'

M2 indefinite tonele		M2 toned		
vari[vé <b>é</b> zegera	'belch'	vari[sʊʊndʊ́rány <b>á</b>	'pour'	
vari[gán <b>á</b> gana	'think'	vari[vodóng'án <b>á</b>	'go around'	
vari[rák <b>ớ</b> ớra	'release'	vari[karááng <b>á</b>	'fry'	
vari[tá <b>á</b> ndʊra	'tear'	vari[cheeríz <b>á</b>	'greet'	
vari[gʻor <b>í</b> za	'sell'	vari[karág <b>á</b>	ʻjudge'	
vari[bí <b>í</b> ma	'measure'	vari[deek <b>á</b>	'cook'	
vari[rág <b>á</b>	'promise'	vari[vega	'shave'	
vari[sh <b>á</b>	'grind'	vari[tya	'fear'	

- (20)M3 toneless M2 toneless M3 toned M2 toned nı va[véézégére vari[véézegera nı va[sóóndórányı vari[soondórányá nı va[gánágáne vari[gánágana nı va[vódóng'áne vari[vodóng'áná nı va[rákóurı vari[rákóóra nı va[káráange vari[karáángá nı va[táándórí vari[táándora nı va[chéérízí vari[cheerízá nı va[górízí vari[góríza nı va[kárágé vari[karágá nı va[bíímí vari[bííma nı va[dééké vari[deeká
- (21)  $T \rightarrow T_L \quad T_{\beta}'$  Tone Suppression
- $(22) \quad a. \quad \textit{V2 linking} \qquad \qquad b. \quad \textit{Final linking} \\ *T \quad T'_{\beta} & *T \quad T'_{F} \\ \mid \quad \vdots & \quad \mid \quad \vdots \\ \mid \quad V \quad V \quad \mid \#$
- M10 hodiernal perf. toneless M10 toned (24)va[gánágani 'they thought' va[vodong'ani 'they went around' va[rákóóri 'they released' 'they fried' va[karaanji va[táándori 'they tore' 'they greeted' va[cheerizi 'they sold' 'they judged' va[gúrízi va[karaji va[bíími 'they measured' va[deechi 'they cooked' va[rájí 'they promised' va[veji 'they shaved' 'they feared' va[shíi 'they ground' va[tyII
- (26)**M9** hesternal perf. toneless M9 toned 'they thought' vaa[gánágání vaa[vódóng'ání 'they went around' 'they sold' vaa[górízí vaa[kárájí 'they judged' vaa[bíímí 'they measured' vaa[dééchí 'they cooked' 'they promised' 'they shaved' vaa[rájí vaa[véjí 'they feared' vaa[shíi 'they ground' vaa[tyíi
- (27)  $T_{F} \qquad \emptyset \leftarrow T T_{F}$   $vaa [ rá jí \qquad vaa [ vé jí$

(28)	M11 Toneless vara[rakuura vara[guriza vara[raga	'if they release' 'if they sell' 'if they promise'	<i>Toned</i> vara[karaanga vara[karaga vara[vega	'if they fry' 'if they judge' 'if they promise'
	vara[sha	'if they grind'	vara[tya	'if they grind'
(29)	varavariza dáave varakoona máám urasuuvir-oó¹fisá			
(30)	varávárízá dáave varákóó¹ná máám urásúúvír-óó¹físá		mother'	
(31)	Ø←T   ku ra [ vo hoo ll	T <sub>F,L</sub> ¦ a		
(32)	M7a toneless ka[haanzóó¹kízí ka[veezé¹géré ka[ganá¹gáné ka[rakó¹órí ka[taandóri ka[gorízi ka[biimí ka[ragé ka[shí	'now make yell' 'now belch' 'now think' 'now release' 'now tear' 'now sell' 'now measure' 'now promise' 'now grind'	M7a toned ka[taangáá¹zírí ka[svondó¹rányí ka[vodó¹ng'áné ka[kará¹ángé ka[cheerízi ka[karáge ka[deeké ka[vegé ka[tyí	'now announce for' 'now pour' 'now go around' 'now fry' 'now greet' 'now judge' 'now cook' 'now shave' 'now fear'
(33)	$\begin{array}{ccc} & T_2 & T_F \\ &   &   \\ & ka[haanz\acute{o}\acute{o}^!k\acute{i}z\acute{i} \end{array}$ $\begin{array}{ccc} T_2 & T_F \end{array}$	$egin{array}{c c} T_2 & T_F & & & & \\ & & & & & \\ ka[rak\acute{o}^!\acute{o}r\acute{i} & & & \\ & T_2 & T_F & & & \end{array}$		
	 ka[gʊrízɪ	 ka[ragé		
(34)	M7b toneless vaaká[véé <sup>!</sup> zégérá vaaká[gá <sup>!</sup> nágáná vaaká[rá <sup>!</sup> kóúrá vaaká[gú <sup>!</sup> rízá vaaká[bíí <sup>!</sup> má vaaká[rá <sup>!</sup> gá vaaká[rá		M7b toned vaaká[sóó¹ndórányá vaaká[vó¹dóng'áná vaaká[ká¹ráángá vaaká[ká¹rágá vaaká[déé¹ká vaaká[vé¹gá	'they poured' 'they thought' 'they fried' 'they judged' 'they cooked' 'they shaved' 'they feared'
(35)		L	Tone Suppres	sion
()	T <sub>1</sub> T vaakara	$T_{\mathrm{F}}$ $T_{\mathrm{1}}$	$T_{\mathrm{F}}$	
		L 	Final Linking	
	$T_1$	$T_F$ $T_1$	$T_{\mathrm{F}}$ :	
	vaa ka ra	ga vaa ka ve	g a	

					L	
		$T_1$	$T_{\rm F}$		$T T_1$	$T_{\rm F}$
		÷			\:	
v a a	k a	r a	g a	v a a	ka ve	g a

,
rikırá <sup>!</sup> kóórá
kıgórí
akırákóorı
góra)
/áákirákoora)
σ'rí
kırá <sup>!</sup> kóórí
[

Stem Initial Mapping