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# Vowel Deletion in Abesabesi A CASE STUDY OF EKIROMI

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#### **Abstract**

Abesabesi<sup>4</sup> is an endangered Nigerian language spoken in nine settlements within the Akoko North East and Akoko North West Local Government Areas (LGA) of Ondo State by an estimated total of less than 7,000 speakers. In this language, as in many other Benue-Congo languages, it is a common case that two vowels meet across a word boundary. Among different phonological processes that are triggered by the occurrence of two sounds at morphological boundary are: segment harmony, deletion/elision, assimilation dissimilation, coalescence, velarization and palatalization. This paper investigates the phenomenon of vowel deletion in Àbèsàbèsì for an insight into the  $V_1 \# V_2$  vowel deletion in the language. Data collection adopts a participatory model. The paper attempts a descriptive and rule base account of the types of vowel deletion the language attests. For a better understanding of the segment behaviour, Data collection and presentation is limited to the Èkìròmì dialect as spoken in Ìkáràm. Èkìròmì attests two types of  $V_1 \# V_2$  vowel deletion and certain environments where no vowel deletion takes place. This paper attempts to clarify the distributional properties of these two types of vowel deletion and to explain the cases where no deletion takes place. It shows that  $V_1 \# V_2$  vowel deletion, in most cases, affects the first of two consecutive vowels  $(V_1)$  and proposes an explanation of the few cases, where the second vowel  $(V_2)$  is affected.

Keywords: Abesabesì, Èkiròmì, Benue-Congo, Phonology, Vowel, Deletion.

# Introduction

Vowel deletion is a well-attested process within the Benue-Congo language family, being a means to reduce the amount of syllables and to maintain the rather rigid CV syllable structures predominant in the family. This study investigates the different types of vowel deletion in Èkìròmì, a dialect of the Àbe `sàbèsì language spoken in the Akoko mountains of Ondo state, Nigeria. The researchers limit the scope to this dialect in order to be able to carry out an in-depth analysis. Apart from the typical vowel deletion triggered by two vowels meeting across a word boundary (henceforth  $V_1 \# V_2$ ), Èkìròmì also attests word final vowel deletion if a word is located at a syntactic boundary or uttered in isolation.

Data used for this research is drawn from authors' documentation corpus and a rich corpus gathered in about ten years by the lead researcher and various undergraduate students of the Department of Linguistics and Languages, of the home University. The data is evaluated using a descriptive method, while the distribution of the vowel deletion types is explained using a rule based approach.

After introducing the language and the dialect of interest, section 2 contains a description of the phonology in Èkìròmì and a summary of existing research on the dialect. While section 3 defines vowel deletion, section 4 presents data on the different domains of vowel deletion in Èkìròmì . Section 5which is the concluding section, discusses the different vowel deletion types discovered in the data and analyses their distribution using rule base approach.

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<sup>&</sup>lt;sup>4</sup>Àbèsàbèsiis known as Akpes in literature and has the ISO-639-3 code ibe and the Glottolog code akpe1248.

#### 1.1 Literature Review

This sections reviews available relevant literature. The section is divided to sub-sections for better understanding of the discussion.

#### 1 Àbèsàbèsì

Àbèsàbèsì is spoken in eight communities in Àkókó North West and one community in Àkókó North East Local Government Areas of Ondo State, Nigeria, by an estimated amount of less than 7,000 speakers<sup>5</sup>. The inhabitants of these settlements are predominantly farmers. Intergenerational transmission fails to take place(Agoyi 2014:4) and language attitudes, especially among young speakers, reveal a preference of speaking the dominant language in the area, Yoruba (Agoyi 2008:2–4). These factors cause high endangerment of the language. Yoruba and English are used as languages of instruction in schools and for officialengagements. Adults use Àbèsàbèsì to communicate at home and in all informal occasions while Yoruba or Nigerian Pidgin English is used to communicate with youths and children. The Àbèsàbèsì communities are in direct vicinity of communities speaking the Akokoid languages: Àhàn, Ayere, Ukaan and the Owé dialect of Yoruba. Genetically, the language has long been classified as an independent branch of the Benue-Congo family (Williamson & Blench 2000) within the Niger-Congo phylum. However, Elugbe (2012) proposes Akedoid as a branch of the Benue-Congo family, suggesting that Àbèsàbèsì and Ukaan are earlier branches of what is now the Edoid languages. As for the internal classification, Agoyi (2008) distinguishes for dialects: Akpes spoken in Àkùnnù and Ìlúdùn, Èkiròmì spoken in Ìkáràm and Àsè, Ìlueni spoken in Ìbaràmù, Ìyànì and Gèdègédé and Ọṣùgù spoken in Èṣùkù and Daja.

### 2 Èkìròmì

As mentioned in the preceding section, Èkiròmiis one of the Àbèsàbèsì dialects spoken in Àsè and Ìkáràmin the northern part of Ondo State, Nigeria. While Ìkáràm is a town with around 5000 inhabitants, Àsè is a small farm settlement with only less than 80 inhabitants situated about three kilometres east of I káràm (Chovwen et al. 2009:10). Inhabitants of Ìkáràm refer to their language as Èkiròm(ì), while those of Àsè refer to theirs as Ekiròm. This research, however, is solely based on language data recorded in I káràm. The following section gives an overview of the phonology in Èkìròmì, while summarizing existing research on the dialect. Èkìròmì Phonology

Èkiròmì attests a total of36 phonemes, of which 22 are consonants and 7 oral vowels.

Plosives	рb		t d			k g	kp gb	
Nasals	m		n		n	ŋ		
Fricatives		f	s	ſ				h
Affricates				tLd3				
Trill			r					
Lateral			1					
Approximants					J		W	

Table 1: Èkìròmì consonants

	front	centre	back
High	i		u
Mid	e		О
open-mid	ε		3
Low		a	

Table 2: Èkiròmì vowels

<sup>&</sup>lt;sup>5</sup> Taking the inhabitant numbers of five communities given by a paper produced within the Millennium Villages Project (Chovwen et al. 2009:10), adding an estimated 800 inhabitants for Akunnu and a third of the population of Ajowa for the three Àbèsàbèsì-speaking communities of the nine communities within Ajowa, results in a total of 10664 people. Assuming a general percentage of 60% speakers across all communities, 6398 speakers are estimated.

Moreover, our data reveals a number of labialized consonants. Raji(1986), the first researcher working on Èkiròmì, mentions labialization and lists the following labialized consonants: /bw,tw, dw, kw, gw,fw, fw, hw,tfw,jw/. Agoyi (1997) argues that labialization is caused by a deleted rounded vowel following the consonant. As this phenomenon cannot be discussed in this paper, we will not decide on the phonemic nature of these labialized consonants. Lau's (2019) corpus attests a few cases of palatalized consonants. No research has been undertaken so far and palatalization as a productive feature remains questionable.

Another phonological process, which all Àbèsàbèsi dialects attest, is vowel harmony. Agoyi (2008, 2012) has done extensive research on the topic and mentions different vowel harmony types in the dialects. Èkìròmì attests one vowel harmony type solely controlled by the ATR feature and one type controlled by the ATR and the roundedness feature. The tone system of all Àbèsàbèsì dialects consist of three tones register tones (high, mid, low). Agoyi and Emmanuel (in preparation) have been working on the tone system and add a falling tone to the three register tones.

There has been little research on vowel deletion in A `bèsàbèsì. Elugbe (2012)suggests word final vowel deletion of /i/ and /u/ in a rather short remark to explain the coda consonants and thereby strengthen his argument of a genetic relationship between Àbèsàbèsì and the Edoid languages. A similar claim he had posited before in Elugbe(1989). Agoyi (2015) proposes an optimality account of the syllable structure in Àbèsàbe `sì and likewise explains the phonetic coda consonants by assuming an underlying vowel that has been deleted. This process will be referred to as word-final vowel deletion.  $V_1 \# V_2$  vowel deletion, on the other hand, has not yet been investigated.

## Vowel Deletion

Vowel deletion is "another common process in the languages of the word that involves the loss of a segment under specifically imposed conditions" (Oyebade 2008:69). The process can affect any segment: consonants, vowels or suprasegmental phonemes (Oyebade 2001; Oyelaran 1972). The deletion of vowels specifically is called elision. In the following sections, we want to investigate  $V_1 \# V_2$ vowel deletion in E kiròmi. We will start by presenting the different domains in which vowel deletion occurs. After that, we will distinguish the different types of vowel deletion. Finally, we will derive the rules determining the vowel deletion type.

### Vowel Deletion Across the Grammatical Domains

Vowel deletion in Èkìròmì can generally occur, wherever two vowels meet across morpheme boundaries. As Èkìròmì attests a general distinction between verbs and nouns – with verbs starting with a consonant and nouns starting with a vowel, typical V # V occurrences can be found in the following grammatical domains:

#### Noun Phrase

- Noun + Nominal<sup>6</sup>
   Verb Phrase
- Verb + Nominal
- Pronoun + Nominal (in ditransitive constructions)
   Others
- Relativizer + Nominal
- Focus Particle + Nominal
- Interrogative Pronoun + Nominal

Additionally, Èkìròmì attests word-final vowel deletion. This phenomenon has already been described and analysed by Agoyi (2015).

### Noun Phrases

Vowel deletion in noun phrases occurs when a noun is followed by another noun, a pronominal, numeral or adjective. Nouns can follow nouns to function as an attribute or to form a compound with the other noun. Data set 1) shows several noun + noun constructions, with all possible vowel qualities for  $V_1$  except /u/.

It can be seen that it is always the first of two colliding vowels that is deleted. The last column shows the quality of the first vowel respectively.

<sup>&</sup>lt;sup>6</sup>Nominal is used here to encompass all kind of noun-like words that start with a vowel. These include categories that are traditionally referred to as nouns, pronouns, numerals, adjectives

1							$V_1$
1	a)	afa book	+	ono-no wife-my	$\rightarrow$	afo <b>n</b> óno my wife's book	/a/
	b)	ègè door	+	i∫o house	$\rightarrow$	egiso door of the house	/ε/
	c)	áje mother	+	Ena cow	$\rightarrow$	i. ajεna mother of the cow	/e/
	d)	òli cloth	+	ὸsέ-na father-my	$\rightarrow$	òlᢒsέna my father's cloth	/i/
	e)	ato floor	+	i∫o house	$\rightarrow$	atiso flor of the house	/ɔ/
	f)	ajo eye	+	aje-no mother-my	$\rightarrow$	ajájéno my mother's eye	/o/
$\Omega d$		· 1 1.0 ·		1 1 .1 11		1. C . 779	1: 1 (37 11

Other nominals modifying a noun behave exactly like nouns modifying nouns. The same kind of V<sub>1</sub> deletion can be observed. These nominals can be numerals (2a-b), demonstratives (2c-f) or adjectives (2g-h).

a)	oni person	+	ekî one/INDF	$\rightarrow$	oneki one/a person
b)	i∫o house	+	í∫on five	$\rightarrow$	iʃiʃon five houses
c)	òwò hoe	+	èeni this	$\rightarrow$	òwèeni this hoe
d)	òli cloth	+	ὲdέn that	$\rightarrow$	òlède'n that cloth
e)	ani people	+	ìdín these	$\rightarrow$	anidín these people
f)	ani people	+	ìde'n those	$\rightarrow$	anideń those people
g)	oni person	+	ຍໆລົ new	$\rightarrow$	วกะึกล๊ stranger
h)	ohun <b>ɛ̃</b> tree	+	idug PL\big	$\rightarrow$	ohuñidug big trees

Noun + nominal constructions with /u/ as the first vowel, however, display a minor deviation from that pattern. Data set 3 shows constructions with /u/ as V<sub>1</sub> and changing V<sub>2</sub> values that are noted in the last column.<sup>7</sup> The mentioned deviation can be found in 3d) where the second of the two vowels is deleted instead of the first one. This occurs in a construction, where V<sub>2</sub>has the value /i/. Other constructions with /u/ as V<sub>1</sub> and /i/ as V<sub>2</sub> are given in data set 4. All attest the V<sub>2</sub> deletion. This V<sub>2</sub> deletion seems to only be triggered by /u/ as V<sub>1</sub>.

 $<sup>^7</sup>$  Note that  $V_2$  can never be /u/, as Èkìròm does not allow words to start with a /u/. Moreover, a deleted /u/ in  $V_1$  position often results in the labialization of the preceding vowel, unless the second vowel is rounded.

Other vowels as  $V_1$  in combination with /i/ as  $V_2$  do not result in a  $V_2$ deletion (cf. 1b), 1e), 2b), 2e), 2f), 2h)). This weakens possible claims of /i/ generally being a 'weak' vowel that tends to be deleted – as it is attested in Yorùbá (Abiodun 2004).

2							$V_2$
3	a)	onu mouth	+	ájé-no mother-my	$\rightarrow$	on <sup>w</sup> ájéno my mother's mouth	/a/
	b)	onu mouth	+	εnã cow	$\rightarrow$	on <sup>w</sup> ɛ́nã the cow's mouth	/ε/
	c)	onu mouth	+	ebo dog	$\rightarrow$	Onébo dog's mouth	/e/
	d)	onu mouth	+	inī water	$\rightarrow$	onujni water side	/i/
	g)	onu mouth	+	o`se'-na~ father-my	$\rightarrow$	onỗsε΄nã my father's mouth	/c/
	f)	onu mouth	+	ono-no wife-my	$\rightarrow$	onojnono my wife's mouth	/o/
4							
	a)	òkú all	+	iniŋ thing	$\rightarrow$	okúniŋ everything	/i/
	b)	òkú all	+	ig <sup>w</sup> i material	$\rightarrow$	òkúg <sup>w</sup> i all materials	/i/
	c)	ìtù heap	+	ilib <b>ɔ</b> ′ cassava	$\rightarrow$	ìtùlibo' cassava heap	/i/

Out of the eight possessive pronouns in Èkiròm, five start with a vowel, which means they could theoretically also trigger vowel deletion. These are: 3SG.HUM 'u', 3SG.NHUM 'ɛ', 1PL 'ès', 2PL 'èn', and 3PL.NHUM 'i'. Examples for noun + pronoun constructions are displayed in dataset 5.

a)	òdè stool	+	u her/his	$\rightarrow$	òdèu her/his stool	
b)	òli cloth	+	u her/his	$\rightarrow$	Òlúu her/his cloth	
c)	iso house	+	ε it	$\rightarrow$	if $\epsilon$ / if $\epsilon$ $\epsilon$ 8 its house	
d)	iʃomo farm	+	ès our	$\rightarrow$	isomes our farm	/o/
e)	at∫i egg	+	èn your (PL)	$\rightarrow$	atsen /i, your eggs	/
f)	i∫o house	+	i their (NHUM)	$\rightarrow$	iʃi / iʃii /o their house	/

<sup>&</sup>lt;sup>8</sup>In careful speech, speakers actually produce a version that attests no deletion but a full assimilation of the first vowel. The same holds for 5f)

Data set 5 reveals small differences to other noun + nominal constructions. The 3SG.HUM pronoun (5a-b) does not show any vowel deletion. Either, it is just concatenated to the noun, or an assimilation of  $V_1$ takes place. The 3SG.NHUM and 3PL.NHUM pronouns (5c and 5f) trigger a deletion of  $V_1$ or merely a full assimilation. The 1PL and 2PL pronouns (5d-e), on the other hand cause a regular  $V_1$  deletion.

Regarding the  $V_2$  deletion we discovered in data sets 3 and 4, the only pronoun to trigger a collision of /u/ and /i/ would be the 3PL.NHUM pronoun 'i'. Data set 6 shows, neither assimilation nor a vowel deletion occurs, when nouns ending in /u/ combine with the 3PL.NHUM pronoun. The expected  $V_2$  deletion that has been shown to occur between /u/ and /i/ would result in the deletion of /i/. This would in fact delete the entire segmental material of the pronoun and in most cases leave no traces. The lack of deletion is thus necessary to protect the pronoun altogether.

Verb Phrases 1.3

 $V_2$ 

Vowel deletion in verb phrases can be observed when a noun follows a transitive verb. As most verbs end in a vowel and all nouns except for a few loan words start with a noun, this process occurs frequently. The verb + noun constructions in the following data set 7 show the same pattern of vowel deletion within noun phrases: We encounter solely  $V_1$  deletion if  $V_1$  is one of the vowels /a,  $\varepsilon$ ,  $\varepsilon$ ,  $\varepsilon$ ,  $\varepsilon$ , o.

7						$V_1$
a)	sà know	+	okpo way	$\rightarrow$	sòkpo know the way	/a/
b)	tsèrè repair	+	oni person	$\rightarrow$	tseroni door of the house	/ε/
c)	de buy	+	ɛnam meat	$\rightarrow$	dɛnãm buy meat	/e/
d)	t∫i have	+	ono wife	$\rightarrow$	tʃono have a wife	/i/
e)	lo throw	+	ísaj stone	$\rightarrow$	lísaj throw stone	/ɔ/
f)	logìno destroy	+	εmu money	$\rightarrow$	lògìñemu waste money	/o/

Verb + noun constructions also attest  $V_2$  deletion at the collision of /u/ and /i/. Data set8 displays verbs ending in /u/ followed by nouns starting with vowels of different qualities.  $V_2$  can be seen in the last column. The  $V_2$  deletion occurs in 8d). Other examples of /u/#/i/ collision in verb + noun constructions can be seen in data set 9.

<sup>9</sup> \*del implies that deletion is not allowed in the structure domain.

6

8								
Ü	a)	ju bury	+	ajé-no mother-my	$\rightarrow$	Jájéno bury my mother	/2	a/
	b)	hu hurt	+	εb <sup>w</sup> ij goat	$\rightarrow$	h <sup>w</sup> εbij hurt the goat	/{	ε/
	c)	nu go	+	èkiròm Ìkáràm	$\rightarrow$	n <sup>w</sup> ekirom go to Ìkáràm	/6	e/
	d)	du fetch	+	ijnī water	$\rightarrow$	dunī fetch water	<b>/</b> i	i/
	e)	su annoy	+	ວີsέna father-my	$\rightarrow$	sɔ̀sɛ́nã annoy my father	/:	o/
	f)	ku choose	+	òlí-so fabric-your	$\rightarrow$	koliso choose your fabric	/0	0/
9	a)	ku choose	+	iniŋ-so thing-your	$\rightarrow$	kuniŋso choose your thing	/3	i/
	b)	jù bury	+	ikpår children	$\rightarrow$	jùkpàr bury children	/i	i/
	c)	nữ go	+	ìdʒɔ̀ farm	$\rightarrow$	nud̃33 go to the farm	/3	i/
10 see	a)	ye	+	u him/her	$\rightarrow$	yéu sees him	*del	
	b)	sà know	+	u him/her	$\rightarrow$	sàu 'knows him/her'	*del	
	c)	do want	+	ε it	$\rightarrow$	de /o/ 'wants it'		
	d)	logino spoil	+	ε it	$\rightarrow$	logine /o/ 'spoils it'		
	e)	kpono tie	+	i them	$\rightarrow$	kpòni /o/ 'ties them'		
	f)	bèrè start	+	i them	$\rightarrow$	bèri /ε/ 'starts them'		

11
a) 
$$s\grave{a}$$
 +  $\grave{e}s$   $\rightarrow$   $s\grave{e}s$  /a/
know us 'knowsus'

b)  $sem\grave{e}$  +  $\grave{e}n$   $\rightarrow$   $sem\grave{e}n$  / $\varepsilon$ /
greet you (pl) 'greets you (pl)'

### Other Constructions

The language attests other constructions that trigger vowel deletion. These affect all words with a grammatical function, such as the complementizer mi, the relativizer mi, the focus particle gi and different interrogative pronouns. All of these words can appear before the subject of a clause. This means that their final vowels get in contact with the initial vowel of a noun or subject pronoun and therefore face vowel deletion. None of these function verbs ends with a /u/, which means that the combination /u/#/i/ is impossible in this domain. The following data therefore lacks  $V_2$  deletion.

12

- a) ìwé mĩ ở de étſe book REL 2SG buy market\LOC
- b) əmina u gí a gbà tʃa u knife 3SG REL1PL give for 3Sg
- c) màdí an é mi what 2Pl ASP do
- d) in ê â dò mi ð gba na how\_much 2SG want COMP 2SG give me

- → ìwé mỹ dé t∫e the book you bought at the market
- → ɔmijnaïúgâgbat∫aú we gave him his knife
- → màdánjé mi what are you doing?
- → inô dòm gbà na how much do you want to give me?

In 12a-d, the vowels of all the grammatical items under investigation are deleted.

#### Discussion

The data presented reveals the existence of two vowel deletion types in a  $V_1 \# V_2$ environment and cases, where vowel deletion does not occur. The two vowel deletion types are  $V_1$  deletion and  $V_2$  deletion. In order to differentiate the three possible cases of vowel in contact in this paper, The vowel distribution rules will be formalized in the following subsections.

#### No Deletion

No deletion has been shown to occur only in the domains involving the three mono segmental object/possessive pronouns u, i and  $\epsilon$ . The argument is that the lack of deletion is not affected by the domain but rather by the fact that these morphemes consist of only one morpheme. Datasets 5 and 10 have shown that vowel deletion is not possible for those cases where the morpheme is at risk of being lost altogether. This is due to the combination of /u/ and /i/, which would otherwise affect  $V_2$ deletion. A linguistic sign in the sense of Saussure has both a form (significant) and a meaning (signifié). If the form part consisting of only one vowel was lost entirely due to vowel deletion, it could not carry the meaning any more.

### V1 Deletion

The language attests  $V_1$  deletion in all grammatical domains. It is therefore, easier to formalize rules for  $V_2$ deletion and no deletion, because they occur in more specific cases. Therefore,  $V_1$  deletion is presume to be the default case in this analysis. Hence,  $V_1$ deletion will occur, where the distribution rules for  $V_2$  deletion and no deletion do not apply.

# V2 Deletion

Data analyses in this paper reveals that Èkiròm attests  $V_2$  deletion only in the grammatical domains of noun phrases and verb phrases. This is not a restriction on the grammatical domains per se but rather due to the fact that the other domains either do not permit the combination of /u/ and /i/ (section 4.3) or only provide mono segmental morphemes with grammatical meaning as the  $V_2$  and therefore avoid  $V_2$  (data set 6). Consequently,  $V_2$  deletion only occurs, if a high back vowel (/u/) follows a high front vowel (/i/).

These two vowels generally play an important role in the phonology of Èkìròm. They are the two final vowels that can be deleted at the end of a syntactic boundary (Agoyi 2015). Moreover, only the [High+ Round] vole u triggers [ATR +ROUND] vowel harmony the Èkìròmì.

The implication is that the language attests [Round] vowel harmony that only affects the high back vowel /u/. This type causes vowels to harmonise based on the ATR feature, but has a specific [High] vowel value to harmonize with /u/10.

In the study, all possible grammatical domains where  $V_1 \# V_2$  vowel deletion is possible have been listed. Having looked at the different vowel deletion types across the different domains, we posit the hypothesis that the distribution of the vowel deletion types is not affected by the grammatical domains. Ekirom phonological process of deletion shows  $V_1$  vowel deletion type occur in all grammatical domains, where they do not have to be avoided due to mono-segmental morphemes. The  $V_2$ deletion occurs in all grammatical domains, where the combination of  $v_1$  and  $v_2$  is possible.

The factor affecting the distribution of the vowel deletion types is the vowel quality (V<sub>2</sub>deletion) and the avoidance of vowel deletion is caused by mono-segmental morphemes being the second vowel.

### Conclusion

This paper has provided a description of vowel deletion in the Èkiròmì dialect of Àbèsàbèsì in a  $V_1 \# V_2$  environment. It has shown that Èkiròmì attests two types of  $V_1 \# V_2$  vowel deletion and cases, where no deletion occurs at all. While  $V_1$  deletion has been shown to be the default case for most of the  $V_1 \# V_2$ combinations,  $V_2$ deletion only occurs in specific cases.  $V_2$  deletion is triggered by a combination of the two [+high] vowels in the order /u/# /i/. This rule is valid for all domains where this combination can occur except for mono segmental morphemes being  $V_2$ , where vowel deletion does not take place when the morpheme is at risk of being deleted all together. Moreover, grammatical domains have been shown to have no influence on vowel deletion. This research adds another view on the various types of  $V_1 \# V_2$ deletion within the Benue-Congo language family and their distribution. This research could be expanded by investigating suprasegmental features that are affected or caused by vowel deletion. Nasalization, tones and labialization have been deliberately excluded from this work but could give further insides into the phonological system of Àbèsàbèsì.

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 $^{10}$  Claimed by Agoyi(2008). New data, however, reveals that /u/ and /i/ can have an inherent [+ATR] or [-ATR] value that does not reflect in the pronunciation, but only in vowel harmony. This is indicative of a convergence of /u/ and /o/ as well as /i/ and /i/. The specific vowel value to harmonize with /u/ only holds true for /u/ with an inherent [+ATR] value.

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