

INYUVESI YAKWAZULU

UMKHAKHA WEZOBUCIKO

UMNYANGO WESIZULU NAMASIKO

ISIFUNDO: SEMFUNDOMSINDO KANYE NENGCWENGAZINHLANVU

ZUL 241

IPHEPHA LOKU 1

AMANOTHI AHLELWE NGU: K.E. KHUMALO

CHAPTER V

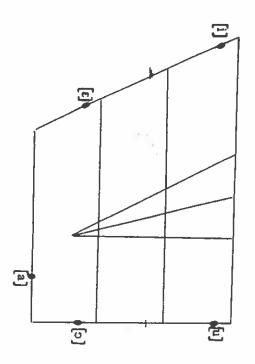
THE PHONETICS OF XHOSA, ZULU, SWAZI, TSONGA, VENDA, NORTHERN SOTHO, TSWANA AND SOUTHERN SOTHO

1. THE SPEECH SOUNDS OF XHOSA

Vowels

Basic vowels

Xh.5.1 The vowels of Xhosa all lie on the outline of the vowel chart (see par. 3.58). Their position are as follows:



a [a]: There is only one a vowel in Xhosa which lies between Cardinal Vowels Nos. 4 and 5, somewhat nearer to No. 5. The a of Xhosa is therefore an open or low middle vowel, e.g. -thanda [-thanda] (love);

e [ε]: the e of Xhosa is a semi-open middle front vowel, and lies about halfway between Cardinal Vowels Nos. 3 and 4, e.g. -senga [-sεηga] (milk)

c [5]: the o of Xhosa is a semi-open middle back vowel which lies about halfway between Cardinal Vowels 5 and 6, e.g. -bola [-50la] (be bad).

u [u]: the u of Xhosa is a close or high back vowel which is slightly lower than Cardinal Vowel No. 8, e.g. -vula [-vula] (open).

Vowel variants

Xh.5.2 The abovementioned five vowels are the five basic vowels or five vowel phonemes of Xhosa. Two additional vowel variants also occur. These originate as a consequence of vowel influence, a phenomenon which is fully dealt with in Chapter 6.

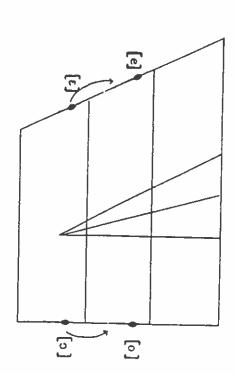
Xh.5.3 The two vowel variants of Xhosa are variants of o and e and are also written o and e respectively in the practical orthography; phonetically they are written [o] and [e] respectively, and are described as follows:

e [e] is a semi-close or raised middle front vowel which is a variant of $[\epsilon]$ lying between Cardinal Vowels Nos. 2 and 3, slightly nearer to No. 2, e.g. asisengi [asisengi] (we do not milk).

o [o] is a semi-close or raised middle back vowel which is a variant of [o], lying between Cardinal Vowels Nos, 6 and 7, slightly nearer to 7, e.g. akuboli [ak'u6oli] (it does not become bad).

Xh. 5. 4 chart:

The vowel variants lie as follows on the vowel



Consonants

Ordinary consonants

With vowels only, e.g. la, so and that others occur only in compounds of two or three consonants, usually the socalled nasal compounds, i.e. a nasal combined with one or more consonants, e.g. [ŋðv] which is written mv. The sound [ŋ] occurs in this compound only.

Xh. 5.6. Labials

p [p'] is a voiceless ejective bilabial explosive as in -pasa [-p'asa] (be out of breath). It also occurs in the nasal compound mp [mp'], e.g. impi [imp'i] (army).

ph [ph] is a voiceless aspirated bilabial explosive, e.g. -pha [-pha] (give)

b [6] is a voiced bilabial implosive, e.g. bona [-60na] (see)

[b] is a devocalized voiced bilabial explosive, e.g. -bhala
[-bala] (write)

겜

- b [b] is a fully voiced bilabial explosive which occurs in the nasal compound mb [mb] only, e.g. imbuzi [imbuzi] (goat)
- m [m] is a voiced bilabial nasal, e.g. -mema [mεma] (invite); it occurs also in the nasal compounds mp and mb
- mh [mfi] is an aspirated voiced bilabial nasal, e.g. -mhumha [-mfiumfia] (drink from a narrow-necked bottle)
- w [w] is a bilabial semi-vowel, e.g. -wa [-wa] (fall).
 Some regard it as a velar semi-vowel.

Xh. 5.7. Denti-labials

- [[f] is a radical voiceless denti-labial fricative, e.g. -fa [-fa] (die)
- v [v] is a voiced denti-labial fricative, e.g. -vala [-vala]
 (close)

 m [η] is a voiced denti-labial which occurs only in nasal compounds before f, and before v, e.g. imfe [impf'ε]
- [mf] is not indicated in the practical orthography; it is a voiceless ejective denti-labial affricate which occurs in the nasal compound mf [mmf] only, e.g. imfe [immf] (sweetreed)

(sweet-reed), imvubu [i movu bu] (hippopotamus)

[Φν] is not indicated in the practical orthography; it is a voiced denti-labial affricate which occurs in the nasal compound mv [ηΦν] only, e.g. imvubu [iηΦνι bu] (hippopotamus)

Xh. 5.8. Alveolars

- t [t'] is a voiceless ejective alveolar explosive, e.g.

 itakane [it'ak'ane] (lamb) and occurs also in the
 nasal compound it [nt'], e.g. into [int'o] (thing)
- th [th] is a voiceless aspirated alveolar explosive, e.g. thetha [-thetha] (speak)

[d] is a devocalized voiced alveolar explosive, e.g. amadoda [amadoda] (men)

IQ.

lQ.

- [d] is a fully voiced alveolar explosive which occurs in the nasal compound nd [nd] only, e.g. indoda [indoda] (man)
- [s] is a voiceless radical alveolar fricative, e.g. -sala [-sala] (remain)
- [z] is a voiced alveolar fricative, e.g. $\frac{-zama}{-zama}$ [-zama] (move)

lЫ

07

- hl [4] is a voiceless radical alveolar lateral fricative, e.g.
 -hlala [-4ala] (sit)
- dl [h] is a voiced alveolar lateral fricative, e.g. -dlala [hala] (play)
- n [n] is a voiced alveolar nasal, e.g. -nona [-nona] (be respected)
- nh [nfi] is an aspirated voiced alveolar masal, e.g. isinhanha [isinfianfia] (a rich person)

 r [r] is a voiced alveolar rolled consonant which is a borrowed sound in Xhosa but which has already become
- adopted into the language. It is however not found in true Xhosa words, e.g. uMariya [umarija] (Maria)

 [[1] is a voiced alveolar lateral continuant, e.g. -lala
 [-lala] (lie down)
- [ts] is a voiceless ejective alveolar affricate which begins with t and ends with s, e.g. _tsiba [-ts'i6a] (jump) and also occurs in the nasal compound nts [nts'] e.g. intsimi [ints'imi] (field)

S

[tsh] is an aspirated alveolar affricate which begins with tand ends with s, e.g. <u>-tsutsuza</u> [-tshutshuza] (be busy)

8

[dz] is not indicated in the practical orthography; it is a voiced alveolar affricate which begins with d [d] and ends with z[z], and occurs in the nasal compound nz [ndz] only, e.g. inzalo [indzalo] (progeny)

- til [t4'] is a voiceless ejective lateral affricate which begins with and ends with hi [4] and occurs in the nasal compound nti [nt4'] only, e.g. intlahla [int4a4a] (glossy appearance)
- [dh] is not indicated in the practical orthography; it is a voiced lateral affricate which begins with decompound ends with decompound [hd] and occurs in the nasal compound ndl [ndh] only, e.g. indlovu [indhovu] (elephant)

Xh. 5.9. Prepalatal

- sh [] is a voiceless radical prepalatal fricative, e.g. -shushu [fufu](hot)
- ny [n] is a voiced prepalatal nasal, e.g. inyama [inama] (meat)
- nyh [nh] is a voiced aspirated prepalatal nasal, e.g. inyoloba [inholoba] (elbow)
- n [n] is a voiced prepalatal nasal which occurs in nasal compounds nj [nd3], e.g. inja [ind3a] (dog), and ntsh [ntf'] e.g. intshuntshe [intfuntf'e] (assegai)
- tsh [tʃ] is a voiceless ejective prepalatal affricate which begins with t [t] and ends with sh [ʃ], e.g.-tshixa [-tʃ'i//a] (lock). It also occurs in the nasal compound ntsh, e.g. intsha [intʃ'a] (it is new)
- tsh [tfh] is a voiceless aspirated prepalatal affricate which begins with [t] and ends with [f], e.g. -tshisa [-tfhisa] (burn).
- is a devocalized prepalatal affricate which begins with devocalized devocalized devocalized figure and ends with devocalized figure for the voiced equivalent of figure for th
- [d3] is a fully voiced affricate which begins with d and ends
 with [3] ([3] is the voiced equivalent of [f]), and
 occurs only in the nasal compound nj [nd3], e.g.
 inja [ind3a] (dog)

- y [j] is the prepalatal semi-vowel, e.g. ukuya [uk'uja]
 (to go)
- Xh. 5. 10. Palatale
- ty [c'] is a voiceless ejective palatal explosive, e.g. <u>ukutya</u> [uk'uc'a] (to eat)

 \leq

- tyh [ch] is a voiceless aspirated palatal explosive, e.g. ityhefu [ichefu] (poison)
- dy [+] is a devocalized palatal explosive, e.g. isidyoli [isiyoli] (spy)
- dy [+] is a fully voiced palatal explosive which occurs in the nasal compound ndy [n+] (only, e.g. indyebo [in+e65] (much food)
- n [n] is a voiceless palatal explosive which occurs in the nasal compound nty [nc^t] only, e.g. intyelo [inc^telo] (information)

Xh. 5.11. Velars

- k [k'] is a voiceless ejective explosive, e.g. kakubi
 [k'ak'ubi](badly); it also occurs in the nasal compound nk [ηk'], e.g. inkomo [iηk'ɔmɔ] (cow)
- kh [kh] is a voiced aspirated velar explosive, e.g. -khoka [-khok'a] (take out)
- [g] is a devocalized voiced velar explosive, e.g. <u>-gula</u> [-gula] (be ill)
- [g] is a fully voiced velar explosive which occurs in the nasal compound ng [ng] only, e.g. -ngena [-ngena] (enter)
- [x] is a radical voiceless velar fricative, e.g. <u>irafu</u> [ixafu] (tax)

н

pα

- gr [7] is a voiced velar fricative, e.g. igronya [iyona] (sack cloth)
- $[\mathfrak{p}]$ is a velar nasal which occurs before velars and

- n' [η] is a voiced velar nasal, e.g. in'an'ane [iηaηane] (hadida)
- $\frac{kr}{k}$ [kx] is a voiceless ejective velar affricate which begins with [k] and ends with [x], e.g. ikrele [ikx!ɛlɛ] (sword)
- w [w] see under labials; it is sometimes regarded as a velar semi-vowel.

Xh.5.12. Glottals

- [b] is a voiceless radical glottal fricative, e.g. -huhuza [-huhuza] (blow)
- [fi] is a voiced glottal fricative, e.g. <u>ihashe</u> [ifia [τ] (horse)

Click consonants

Xh.5.13. The click consonants have been dealt with fully in par. 3. 74 et seq.. The three click consonants which are distinguished by the position in the mouth in their formation occur in Xhosa, viz.

- [/] the dental
- [!] the palatal
- \underline{x} [//] the lateral

Each of these three click consonants has the following forms which are set forth in par. 3.74 et seq., viz.

00	пс	Ch	01
[\g]	프c [ŋ/]	[4/]	[/]
<u>p</u> 8	ρα	윤	ρ
[89	[1 (k)	[41]	[1]
떳	X	臣	ı×
[//g	//¤}	[//h]	[//]

nkc [nk/]	
[13kt] Espera	
nkx [nk/]	

The latter type of click is no longer used in the written language and is superseded by the voiced nasalized variation ngc, ngq and ngx respectively.

SCHOOLS LYBITE OF CONTROL COMPONING

	ном	ORGA	NIC					C	DTE	NAUT	18				это	P CC	O890	NAH	rs	ang .	
	AF	FRICA	\TIV	E		ADAZT - DETS	. מחסרדו	THARBY	TO COMP	LABAN	1	FRUCA	TIVI	5	TAISOTANG	E:	XPL	SIVI	:	regulation of Aee current	
Tarasta.						m edial	medial	medial							nedial .					OF AIR	1
peolor	e)ective	volord	devolued	e)ective	espirated	veload	votand	voiced	aspirated	yotand	veloed	radical	peolor	radical	volcad	peolow	devotoed	aspirated	e)ective	CURRENT	
-	-					4			E	B					D	र	٠۵.	2	o,	bilabial	
		9		9						4.			4	~						denti- labial	PLACE
8	2 #	R		5	i.	-	-	4	g	-	er'	•	pt .	•		9	-	G	7-2	alveolar	CE OF
-	8	जै पुर	-d	5	Ş	=			뉱	9	 			~	-					pre- palatal	
	-		-	1	8					ļ 5 -	1					***	-	8	Q.	paletal	ARTICULATION
_	-	-		Ħ	\vdash	3		+-	-	23	1		-	PF		7	-19	5	7	volar	NOIT
	-	-	-		\vdash	+	-	+	+-	\vdash	+		130	-						glottal	1
101	E	B	-	į.	:		-	-	8	ä	B	=	4	-	•		g	12		practical orthography	
		2		=	1	-			2	9		2				8		5	15	l of seasons	Ī
		1		tab.		•			ay.	?		1	7			3	9	3	4	hogra	
			18	1 2			İ			, W			-	-		E	-	E	-	phy	
														-							
															-			Ì			

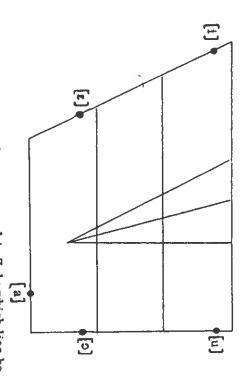
These sounds occur in assal compounds only as indicated in the practical orthography here.

2. THE SPEECH SOUNDS OF ZULU

Vowels

Basic vowels

Z5.1. The vowels of Zulu all lie on the outlines of the vowel chart (see par. 3.58). Their positions are as follows:



- <u>a</u> [a]
- There is only one a vowel in Zulu which lies between Cardinal Vowels Nos. 4 and 5, somewhat nearer to No. 5. The a of Zulu is therefore an open or low middle vowel, e.g. -thanda [-thanda] (love).
- []
- the <u>i</u> of Zulu is a close or high front vowel, slightly lower than Cardinal Vowel No. 1, e.g. <u>-vimba</u> [-vimba] (stop)

the e of Zulu is a semi-open middle front vowel,

and lies about halfway between Cardinal Vowels

[e

10

Nos. 3 and 4, e.g. -senga [-senga] (milk)

the o of Zulu is a semi-open middle back vowel
which lies about halfway between Cardinal Vowels

5 and 6, e.g. -bola [-50la] (be bad)

۱⊏

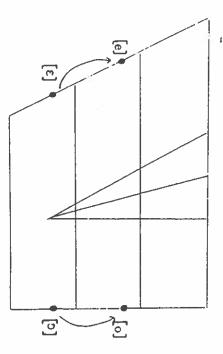
87

[u]: the u of Zulu is a close or high back vowel which is slightly lower than Cardinal Vowel No. 8, e.g. -vula [-vula] (open).

Vowel variants

- Z5.2. The abovementioned five vowels are the five basic vowels or five vowel phonemes of Zulu. Two additional vowel variants also occur. These originate as a consequence of vowel influence, a phenomenon which is fully dealt with in Chapter 6.
- Z5.3. The two vowel variants of Zulu are variants of o and e, and are also written o and e respectively in the practical orthography; phonetically they are written [o] and [e] respectively, and are described as follows:
- e [e] is a semi-close or raised middle front vower which is a variant of $[\varepsilon]$ lying between Cardinal Vowels Nos. 2 and 3, slightly nearer to No. 2, e.g. asisengi [asisengi] (we do not milk);
- o [o] is a semi-close or raised middle back vowel which is a variant of [o], lying between Cardinal Vowels Nos. 6 and 7, slightly nearer to 7, e.g. akuboli [akuboli] (it does not become bad)
- 25.4. chart:

The vowel variants lie as follows on the vowel



Consonants

Ordinary consonants

Note that some consonants in Zulu can be used with vowels only, e.g. la, so and that others occur only in compounds of two or three consonants, usually the socalled nasal compounds, i.e. a nasal combined with one or more consonants, e.g. $[\eta \dot{\theta} v]$ which is written $\underline{m}v$. The sound $[\eta]$ occurs in this compound only.

Z5.6. Labi

- p [p'] is a voiceless ejective bilabial explosive as in -pasa [-p'asa] (pass). It also occurs in the nasal compound mp [mp'], e.g. impi [imp'i] (army)
- ph [ph] is a voiceless aspirated bliabial explosive, e.g. -pha [-pha] (give)
- b [6] is a voiced bilabial implosive, e.g. -bona [-5ona] (see)
- bh [b] is a devocalized voiced bilabial explosive, e.g. -bhala [-bala] (write)
- [b] is a fully voiced bilabial explosive which occurs in the nasal compound mb [mb] only, e.g. imbuzi [imbuzi] (goat)

Ю

- m [m] is a voiced bilabial nasal, e.g. -mema [-mcma] (invite); it occurs also in the nasal compounds mp and mb
- m [mfi] is an aspirated voiced bilabial nasal, e.g. mina [mfi ina] (take!)
- w [w] is a bilabial semi-vowel, e.g. -wa [-wa] (fall).

 Some regard it as a velar semi-vowel.
- Denti-labials

25.7.

[f] is a radical voiceless denti-labial fricative, e.g. -fa [-fa] (die)

- 1< is a voiced denti-labial fricative, e.g. -vala [-vala]
- 日 a is a voiced denti-labial nasal which occurs only in nasal (sweetreed), imvubu [indvu 6u] (hippopotamus) compounds before f, and before v, e.g. imfe [impfe]
- [jag is not indicated in the practical orthography; it is a voiceless ejective denti-labial affricate which occurs in the nasal compound mf [upf] only, e.g. imfe [impfε] (sweetreed)
- [dv] is not indicated in the practical orthography; it is a compound my (hippopotamus) voiced denti-labial affricate which occurs in the nasal lydv Jonly, e.g. imvubu [indvubu

Alveolars

Z5.8.

- Ī compound nt [nt'], e.g. into [int'o] is a voiceless ejective alveolar explosive, e.g. -taka _-t!aka] (accumelate) and occurs also in the nasal (thing)
- 16 [41] is a voiceless aspirated alveolar explosive, e.g. -thatha _-thatha] (take)
- 10 [½] is a devocalized voiced alveolar explosive, e.g. amadoda [amadoda] (men)
- Id [b] nasal compound nd [nd] only, e.g. indoda [indoda] is a fully voiced alveolar explosive which occurs in the (प्रध्या)
- 100 [s] is a voiceless radical alveolar fricative, e.g. -sala [-sala] (remain)
- 10 $\begin{bmatrix} z \end{bmatrix}$ (try) is a voiced alveolar fricative, e.g. -zama [-zama]
- 巨 <u></u> is a voiceless radical alveolar lateral fricative, e.g. -hlala [-4 ala] (sit)
- 12 [d] is a voiced alveolar lateral fricative, e.g. -dlala -hala] (play)
- 10 is a voiced alveolar nasal, e.g. -nona [-nona]

- 발 [aa] is an aspirated voiced alveolar nasal, e.g. -nhinhiza [-nfinfiza] (speak through the nose)
- [T] is a voiced alveolar rolled consonant which is a true Zulu words, e.g. uMariya [umarija] (Maria) adopted into the language. It is however not found in borrowed sound in Zulu but which has already become
- is a voiced alveolar lateral continuant, e.g. -iala -lala (lie down)

12

- [42] [ts[†]] is a voiceless ejective alveolar affricate which begins graphy, e.g. insimu [ints'imu] (field) (squirt) and also occurs in the nasal compound ns with t and ends with s, e.g. -tsatsaza [-ts'ats'aza] nts'] where it not indicated in the practical ortho-
- ends with z [z], and occurs in the nasal compound nz is not indicated in the practical orthography; it is a voiced alveolar affricate which begins with d [d] and [ndz] only, e.g. inzalo [indzalo] (progeny)
- 译 and ends with bl [4] and occurs in the nasal compound nhl [nt4] only, e.g. inhlanhla [int4] ant4] is not indicated in the practical orthography; it is a voiceless ejective lateral affricate which begins with t
- 25.9. [db] ends with dl [h] and occurs in the nasal compound voiced lateral affricate which begins with d [d] and ndl [ndh] only, e.g. indlovu [indhovu] (elephant) is not indicated in the practical orthography; it is a

Prepalatal

- 43 \subseteq is a voiceless radical prepalatal fricative, e.g. -sha [-ʃa] (burn)
- 받 5 is a voiced prepalatal nasal, e.g. inyama [inama] (meat)
- [1 pounds nj [ndz], e.g. inja [indza] (dog), a ntsh [ntf], e.g. intsha [intfa] (it is new) is a voiced prepalatal nasal which occurs in nasal com-

- tsh [tJ¹] is a voiceless ejective prepalatal affricate which begins with t [t] and ends with sh [J]e.g. itshe [it/ ϵ] (stone). It also occurs in the nasal compound ntsh, e.g. intsha [intJ¹a] (it is new)
- is a devocalized prepalatal affricate which begins with devocalized devocalized devocalized ([3] and ends with devocalized [3] ([3] is the voiced equivalent of [J]), e.g.-juba [dzuba] (cut off)
- [d3] is a fully voiced affricate which begins with d and ends with [3] ([3] is the voiced equivalent of [f]), and occurs only in the nasal compound nj [nd3], inja [ind3a] (dog)
- У [] is the prepalatal semi-vowel, e.g. ukuya [ukuja] (to go)
- Velai
- k [k'] is a voiceless ejective explosive, e.g. ikati [ik'at'i] (cat); it also occurs in the nasal compound nk [ηk], e.g. inkomo [iηk'omo] (cow)
- k [k] or [k] is a radical velar explosive which is often made partly voiced between vowels, i.e. it is vocalized to [k] e.g. kuyahamba [kuyahamba] (it walks) but ukuhamba [ukuhamba] (to walk) or ngakhoke kuyahamba [ηgakhoke kuyahamba] (therefore it walks)
- kh [kh] is a voiced aspirated velar explosive, e.g. -khokha [-khokha] (take out)
- g [g] is a devocalized voiced velar explosive, e.g. gula [-gula] (be ill)
- g [g] is a fully voiced velar explosive which occurs in the nasal compound ng [ng] only, e.g. -ngena [-ngena] (enter)
- h [x] is a voiceless radical velar fricative which is used as an alternative for the glottal fricative h [h] (see Z5.11), e.g. -hola [-xola] (pay)

[ŋ] is a velar nasal which occurs before velars and before clicks only, and is represented orthographically with n, e.g. inkomo [iŋk'smɔ] (cow), ingwe [i'gwɛ] (leopard), -ncane [-ŋ/anɛ] (small)

16

- ng [η] is a voiced velar nasal, which in certain areas is used as an alternative for the nasal compound ng [ηg] where it does not belong to the first root syllable, e.g. ngakho [ηakho], instead of the standard [ηgakho] (with it)
- e.g. -kleza [-k4\varepsiza] (milk into the mouth). The alternative pronunciation is an ejective velar affricate which begins with [k] and ends with [x] followed by a glottal stop, e.g. -kleza [-kx\varepsiza] (milk into the mouth)
- w [w] see under labials; it is sometimes regarded as a velar semi-vowel.
- Z5.11. Glottals
- [h] is a voiceless radical glottal fricative which is used as an alternative for the velar fricative [x], e.g. -hamba [-hamba] (walk)
- h [fi] is a voiced glottal fricative, e.g. ihashi [ifiafi] (horse)

Click consonants

Z5.12. The click consonants have been dealt with fully in par. 3.74 et seq.. The three click consonants which are distingulsed by the position in the mouth in their formation occur in Zulu, viz.

Each of these three click consonants has the following forms which are set forth in par. 3.74 et seq., viz.

ZULU: TABLE OF COMMON CONSONANTS

- 1	IOMO	ROA	NIC				CONT	יטאם	LNTS					STO	P C	ONSC	MAN	TS		DEMOSTOR	500
	AFF	RICA	TIVE		AOMET -	GENDET	VIBRANT		N A C A C	F	RICA	TIVE		DAP LOSTVE medial		EXP	_	Æ		REGULATION OF AIR CURRENT	
1000					medial	latoral	medial		,		lateral		medial	medial			medial			N OF AD	
valced	ejective	₹010ed	devolced	ejective	voiced	▼olcod	voiced	aspirated	voiced	₹01ced	radical	volced	radical	₹01ced	devolved	voiced	potentique	e jective	radical	CURRENT	
					3			B	B			AZ.		0	٠٥.	0.	P	P		bi- labial	
		Φ7Φ		573					49			4								denti- inbini	ייייר ד
og.	## ##	dz.			7	1	н	E	b	4	10	140	•		.a.	d.	F	-		alveolar	2
		d3ª	ξ	5	<u>.</u>				4				-							pre- palatal	75.150
	k4°			মূ	3				ଧ				×		1993		R	न्द्र	Pt*	velar	VKTICULATION
												[5a	4							glottal	N
ndl	nhi, ki	mv, nz, n)	-	maf, teb, ki	w 1 w	-	41	8 .	15. m. n. ay. ag	di	ы	v. 3, h	f, e, eb, b, à	ъ	bh. d. g	mb, nd, ng	ph. th. kh	p. t, k	R	Equivalents in the practical orthography	

CHAPTER VI

THE PHONOLOGY OF XHOSA, ZULU, SWAZI, TSONGA, VENDA, NORTHERN SOTHO, TSWANA AND SOUTHERN SOTHO

1. THE PHONOLOGY OF XHOSA

AFFRICATIZATION

Xh.6.1.1. Affricatization in Xhosa occurs with palatalization, e.g.

p > tsh [tfh]

į

Cf. PALATALIZATION

ALVEOLARIZATION

Causes

Xh. 6.2.1. Alveolarization in Xhosa is caused by the causative morph -y.

Conditions under which alveolarization occurs

Xh. 6. 2. 2. Alveolarization has a limited occurrance in Xhosa, i.e. only with causative verb stems, e.g.

-limala (get hurt) > -limaza (hurt)

-suka (go away) > -susa (take away)

Cf. FRICATIVIZATION

Sound changes caused

Xh. 6. 2.3. 1>z: -limala > -limaza < *-limalya

143

(K ><u>s</u> : <u>-suba</u> > -Busa < *-викуа

Sounds changed

alveolar. Xh. 6. 2. 4. Only one lateral and one velar sound is made

ANALOGOUS NASALIZATION

Xh 6.3 Analogous nasalization does not occur in Xhosa

ANALOGY

Causes

ХЬ. 6. 4. 1. after its example. A phenomenon is similar to another well known one, and is formed The causes of analogy are probably psychological.

Where analogy occurs

stances do not justify it, in other words where no semi-vowel is present (see PALATALIZATION), e.g. (i) Palatalization often occurs where the circum-

imvana (small sheep) > intaba (mountain) diminutive imvanyana diminutive intatyana

Also with verb stems where the semi-vowel -w- does not follow occurs on the analogy of the original stem, cf. immediately on sounds that normally palatalize, palatalization

-hlupha (worry) > -hlutshwa [-4ut/hwa] < *-hluphwa (be worried) but also

-hluphela (worry for) > pass. -hlutshelwa [-4utShelwa] < *-hluphelwa

> of the first and second persons are formed on the analogy of the third person, e.g. (ii) Forms of the relative and adjective concords

endi- (I who), plural esi- where ndi- and si- follow the same pattern as, for instance, eli-, esi-, the concords of classes classes like um- and the plural eni- follows endi- and esiili- and isi-; o- or om- (you who) follows the pattern of

ASPIRATION WITH CLASS 11-

Xh 6.5 Xhosa. Aspiration with class li- does not occur with

ASSIMILATION

following consonant, e.g. Xh.6.6. in-, plural izin-, iin-, where the n becomes assimilated to the (a) Assimilation occurs mainly with class prefix

n+b[6] > mb[mb]: iimbilo [imbilo] (scruff), cf. singular ubilo [ubilo] n+p>mp[mp']: impendulo (an answer), cf. -phendula (answer) $n+k>nk[\eta k']$: inkabi [i\u00e4k'a 6i] (ox), cf. -khaba (kick) $\underline{n} + [d5] > \underline{n} [nd5]$: \underline{m} \underline{m}

Cf. also NASALIZATION

-jija (make string)

[uk'u65 na] (to see) but umboni [um6oni] (someone who sees). (b) Vowels may also assimilate, e.g. ukubona

Cf. also VOWEL RAISING

(c) Assimilation of kh: kh occurs normally only in the first syllable of a stem; if a kh occurs in another syllable.

it is the result of assimilation to the kh of the stem syllable, e.g.

-khakhalala (lie in heaps)

-khakhamela (be conceited)

ukhakhayi or ukakayi (skull) where in the second example the kh is assimilated to the k of the second syllable.

(d) Complete vowel assimilation occurs, inter

alia,

(i) with the negative of tsho [-tsho] (say), e.g.

(andi)tshongo [-tshongo] < *-tshonga [(I) did not say]; the perfect of -tsho, viz. -tshilo (bave said) instead of *-tshile, and the passive -tshiwo instead of *-tshiwa.

(ii) with copulative forms in which the copulative prefix assimilates to the class prefix, e.g.

with nouns: sisitya (it is a dish) < isitya (dish)

with absolute pronouns: lilo (it is he), cf. lona absolute pronoun of the ili-class; lulo for the ulu-class, etc.

Cf. Xhosa Handbook.

- (iii) with derivations of the verb stem -thi (say), e.g. -thanga instead of *-thinga.
- (iv) with perfect verb stems on -ana where the 1 of perfect suffix -ile is assimilated to n, e.g.

-bonana (see each other) > -bonane (have seen each other).

i.e. -na+ile>*-nile>*-nine>*nne>-ne

(v) with the future tense: andizi kuhamba andizukuhamba

(I shall not go) andizi kuhamba andizi kuhamba andi

ASSONANCE

Xh.6.7. Assonance in Xhosa occurs mainly with ideophones in which the same vowel is for the most part used within the same word, e.g.

bhulukudu (get tripped)

bhalakaxa (fall into a hole)

golokongqo (collapse)

N.B. Not all ideophones are subject to assonance

CONSONANTALIZATION

Xh. 6.8.1. Consonantalization is caused when one vowel appears before another, c.f.

ukuyakha (to build it) < *kuiakha

Where consonantalization occurs

Xh. 6. 8. 2.

(1) with a subject concord <u>u</u> or <u>i</u> before a vowel, e.g.

wakhile (be has built) < *<u>uakhile</u>

yalile (it has refused) < *<u>ialile</u>;

(ii) with class prefixes uku- and uku- before vowel stems, e.g.

ukwakha (to build) < *ukuakha

ulwazi (knowledge) < *ukuazi;

(iii) with the concords of classes uku- and ulu- before vowels, e.g.

uyakwazi (he knows it) < *uyaknazi
uyalwenza (he does it) < *uyaluenza;

(iv) with locative suffix -ini, e.g.

esangweni (at the gate) < *esangoini

(v) with diminutive -ana, e.g.

umntwana (child) < *umntuana

(vi) in a number of cases where e penetrates into the stem, e.g.

udongwe (clay), cf. udongo

ubulongwe (dung), cf. ubulongo

Sound changes caused

ХЪ.6.8.3.

(i) $\underline{u} > \underline{w}$: ukwakha (to build) < *ukuakha

(ii) o > w : isilwana (a small wild beast) < *isiloana

(iii) i>y: yakhile (it has built) < *iakhile

Sounds which change

Xh. 6. 8. 4. Only the back vowels u and o and the front vowel i change.

DE-ASPIRATION

Xh. 6.9. This phenomenon does not occur in Xhosa.

DEVOCALIZATION

Causes

Xh.6.12.1. Devocalization has a limited occurrance in Xhosa and is the result of the elision of the nasal of class in-.

Xh.6.12. Devocalization occurs mainly with nouns which originally belonged to class in-but which changed their class without reverting to the original sound, e.g.

amadoda plural of indoda (man)

igwebu (foam), cf. ingwebu (milk foam)

It is possible that all stems which begin with bh, g, d, including verbs, may have originated in this way, i.e. that an original nasal compound lost its nasal, cf. imbuqo (destruction) but the verb -bhuqa (trample) and ubhuqo (destruction).

Sound changes caused

Xh.6.12.3. \underline{b} $[b] > \underline{bh}$ [b]

<u>d</u> [d]> d [d]

[8] B <[8] B

For examples see above.

Sounds which change

Xh. 6.12.4. Only the fully voiced g, d, and b (which of course occur in the compounds ng [ng], nd [nd] and mb[mb] only, cf. par. Xh. 5.6, Xh. 5.8., Xh. 5.11) are subject to devocalization.

DESIMILATION

Xh. 6.13. (a) Dissimilation is mainly found with palatalization, i.e. where a labial sound changes into a palatal sound, e.g.

b [6] > ty [c]: -hlaba (stab) passive -hlatywa

See also under PALATALIZATION.

(b) Dissimilation of loccurs in the perfect when a verb stem of more than two syllables end in -ela, e.g.

-bambela (catch for > -bambele (have caught for) i.e.

-ela + iie > *-elile > *-elle > -ele

ELISION

Xh. 6. 14. 1. There are three kinds of elision in Xhosa

- (a) morphological elision
- (b) optional syntactical elison
- (c) compulsory syntactical elision

(a) Morphological elision

, {

Xh. 6. 14. 2. In morphological elision (or grammatical elision) certain formatives are derived by means of elision, e.g.

(i) the possessive concord in which the pronominal element loses its vowel before the formative -a, e.g.

la- < *lia-, class ili-8a- < *sia-, class isi-

(ii) the elision of the final -na of the absolute pronoun or of the possessive pronominal stem, e.g.

nazo (with them) < nazona

zabo (of them) < zabona

Here we have at the same time elision of a syllable.

(iii) the elision of the vowel of the quantitative concord before the quantitative stem -onke, e.g.

zonke (all) < *zionke

bonke (all) < *baonke

(iv) the elision of the vowel of a variety of formatives which occur before a vowel verb stem, e.g.

subject concord: sakha (we build) < *siakha

object concord: uyalakha (he builds it) < *uyaliakha

present tense -ya-:uyenza (he is doing) < *uyaenza

negative -nga- : ungenzi (don't do) < *ungaenzi;
potential -nga- : ungenza (you can do) < *ungaenza etc.

 (v) the second and third position of the demonstrative have alternatives in which the semi-vowel is dropped, and a long vowel developes, e.g.

loo instead of lowo (that one), class umabaa instead of abaya (yonder ones) class aba-

(vi) elision also occurs with possessives in the spoken language,e.g.

inkomendoda < inkomo yendoda (the cow of the man)
inkomamadoda < inkomo yamadoda (the cow of the men)

Note that the possessive must begin with a semi-vowel in order to bring about this kind of elision.

(vii) with diminutives where palatalization is avoided, e.g.

impana < *impiana diminutive < impi (army)
imvana < *imvuana < imvu (sheep)

(viii) with connective na- before demonstratives which begin with a vowel, e.g.

nelo < *naelo (with this one)

(ix) with instrumental nga- before demonstratives which begin with a vowel, e.g.

ngeso < *ngaeso (with that one)

(x) with connective \underline{na} -before relative and adjective concords, e.g.

nenkulu < *naenkulu (also a big one)

(xi) with instrumental nga- before relative and adjective concords, e.g.

ngebomvu < *ngaebomvu (with a red one)

Note that elision never occurs when a and i or a and u follow each other. See VOWEL COALESCENCE.

(b) Optional syntactical elision

Xh. 6.14.3. By optional syntactical elision of vowels is understood the elision of vowels which occur in rapid speech, but which are not necessary in the slow and clear enunciation of a word, in other words the elision of vowels here is optional and has no influence on the meaning of the sentence or the word. In this kind of elision it is always the final vowel of a word which is dropped.

(i) when nouns are followed by an adjective or a relative, e.g.

inkom¹enkulu (a big cow)

umnt'ontsundu (an brown person)

(ii) when qualificatives occur before nouns, e.g.

abakhul abantu (big people)

obomy'umntu (a red man)

ezam'iinkomo (my cattle)

(iii) when absolute pronouns of the third person occur before nouns, e.g.

bon'abantu (they, the people)

lon'ihashe (it, the borse)

(iv) when quantitatives occur before noms, e.g.

bonk'abafazi (all the women)

bodw abantu (only the people)

(v) when a verb is immediately followed by a word which begins with a vowel, e.g.

ngitheng'ingubo (I buy a blanket)

uthand'ukubon'umntu (I wants to see a person)

In the spoken language the demonstrative before a noun is often subject to elision, e.g. a bantu instead of aba bantu (these people).

(c) Compulsory syntactical elision

Xh. 6.14.4. This type of elision occurs in certain types of syntactical forms, and cause a change of meaning compared to those forms without elision.

(i) the vocative: e.g.

nkosi! (chief!) but inkosi (the chief)

(ii) after the absolute pronoun of the first and second persons,e.g.

wena nkosi! (you, sir) but

wena inkosi (you, the chief)

(iii) after demonstratives before nouns:

lo mntu (this person) but

lo umntu (this one, the person or this person)

(iv) with absolute negation:

andifuni ngubo (I don't want any blanket) as against andifuni ingubo (I don't want a blanket)

In the locative form of the noun the initial e- is also elided in absolute negatives, e.g.

andingeni ndlwini (I enter no house) instead of endlwini

(v) with enumeratives:

ufuna zinja zini (what kind of dogs do you want?)

(vi) with na- in the negative, cf.

uneukomo (he has a cow), e.g.

Note that elision occurs with the initial vowel of the class prefix of the noun.

FRICATIVIZATION

Xh.6.14.1. Fricativization in Xhosa occurs only in one instance, viz.

1 > dl [h] as in -khulu (big) > -khudlwana (biggish)

It is caused by labial $\underline{\mathbf{w}}$ which changes the liquid $\underline{\mathbf{l}}$ into a lateral fricative.

INTERCHANGE OF VOICELESS AND VOICED CONSONANTS

Causes

Xh. 6.16.1. The cause for this phenomenon seems to lie in the

need of another shade of meaning, and in the voiced form which suggests a more powerful and fiercer action.

Where interchange occurs

Xh. 6.16.2. There are no fixed rules which can be determined. It can be seen as a trend. Note that this phenomenon has not been thoroughly investigated in Xhosa yet, but only in Zulu, see J. A. Louw: The Consonant Phoneme of the Lexical Root in Zulu, Afrika und Übersee, Band XLIII, 1964.

interchanges that occur

Xh.6.16.3. g and kh: -ganda (stamp) and -khanda (stamp in a stamping block)

Sounds which interchange

Xh. 6. 16. 4. Voiced and voiceless sounds interchange.

INTERNAL VOWEL CHANGE

Causes

Xh. 6.17.1. This phenomenon is caused by the i of the perfect suffix which is transposed to a preceding syllable in which a is present.

Where vowel changes occur

Xh.6.17.2. It is found with the stative form of verbs with the suffixes -ala, -ana and -atha.

Sound changes caused

Xh. 6. 17. 3.

(i) -ala > -ele: -khathala (be interested in) > -khathele < *-khathalile;

(iii) -atha > -ethe : -phatha (touch) > -phethe < *-phaithe < -phathile

Sounds that clange

Xh. 6.17.4. Only an a is changed through vowel coalescence.

N.B. The explanation given here is of course a diachronic one. The explanation can also be seen synchronically, i.e. a assimilates partly to following i (of -ile) after which i drops out.

JUXTAPOSITION OF VOWELS

Xh.6.18. When two vowels are juxtaposed, the following happen:

- (i) the two vowels coalesce see VOWEL COALESCENCE
- (ii) one vowel becomes a semi-vowel see CONSONANTALI-ZATION
- (iii) a glide, viz. w before u and a, and y before i is inserted between two vowels, e.g.

uyayibona (he sees it) < *uyaibona
uyawubona (he sees it) < *uyaubona
uyawabona (he sees them) < *uyaabona
ayiboni (he does not see) < *aiboni, cf. iyabona (he sees);

(iv) in certain cases vowels may be juxtaposed but in such cases a glottal stop is inserted which in writing is indicated with a hyphen, e.g.

kwa-amahashe (even the horses)
i-apile (apples) pl. ama-apile

N.B. The term juncture is also used to indicate glides as in (iii) and (iv) above.

LABIALIZATION

Xh.6.19. Labialization does not occur in Xhosa.

METAT HESIS

Xh.6.20. Metathesis does not occur in Xhosa.

NASAL STRENGTHENING

Xh.6.21. Vide STRENGTHENING, NASALIZATION, PLOSIVATING.

NASALIZATION

Сацвев

Xh. 6. 22.1. Masalization is caused by the nasal of class inand class izin- (classes 9 and 10) with deverbatives and adjectives.

Where nasalization occurs

ХЬ 6.22.2.

(i) with noun stems of classes in- and izin-, e.g.

impilo (life) cf. -phila (live)

izinti (sticks) singular uluthi

(ii) with adjective stems, e.g.

enkulu (a big one) < -khulu (big)

Xh. 6, 21.3. Sound changes brought about

n+sh > ntsh [ntf]	$\frac{n+z}{}$ > $\frac{nz}{}$ [ndz]	n+s > nts [nts ^t]	<u>n+v</u> > <u>mv</u> [ηφν]	<u>n+f</u> > <u>mf</u> [ŋpf']	<u>n + on [p] > mb [mb]</u>		n + d [d] > nd [nd]	n+g [g] > ng [ng]	$n + kh > nk [\eta k']$,	n+th > nt [m+1]	<u>n+ph</u> > <u>m</u> p [mp']	" > mo (mo)	sound sound
-shwabula (curse) ulushwa (marguerite)	uswazi (switch) -zala (full)	-saba (flee)	-vela (appear)	-fibla (hide)	ubhalo [ubalo] (writing)	udidi [udidi] (row)	ugogo [uçoço] (something dried up)	ukhezo (wooden spoon) -ganga [-ganga]	-khohlisa (cheat)	uluthi (stick)	thands (lorg)	-phila (live)	ubende [ubende] (spleen)	verb or ulu- class
intshwabulu [intflwabuli] (one who swears at)	nzalo [indzalo] (yield)	untsabo [ints'a60] (flight)	mvelo [imdvelo] (origin)	infihlo [ingf'i4o] (something imfihlo [imgf'i4o]	imbali [imbali] (good writer)	indalo [indalo] (creation)	man)	inganga [inganga] (important	inkohliso [inktofiso]	miamo [mr.ano5] (love)		impilo [impilo] (life)	imbali [imbali] (story)	class in-
iinzungu [indzungu] [ijnt f'wa6uli] (one iintshwabuli [ijnt f'wa6uli] ars at) izintshwa [izint f'wa]	iintswazi [ints'wazi]	[c ga,stui] oquizi	[claydmi] equition	imfihlo [implification]	iimbali [imbali]	[clabai] indali]	[cåcatri] oäoätti	iinkezo [iŋk'ɛzɔ]	inkohliso [ink'o4iso] -khulu (big)	izinti [izint'i]	[cbac'qmi] obnoqmii	[cli,dui] oliduii	iimbali [imbali] iimbende [imbanda]	plural of classes in- and ulu-: class izin-
ш]			स्तिम के स्त्रिक्त	<u>-fuphi</u> (short) >		-dala [-dala] (old) > endala [cndala]		> enkulu	-khulu (big)	-thathu (three) > ezintathu			-bi [-6i] (bad) > embi [embi]	adjective

Xh.6.21.3. (Continued)

 $\underline{n+r}\left[x\right]>\underline{kr}\left[kx^{t}\right]$

sound

n+ bl[4] > ntl [nt4*]

n+dl [h]> ndl [ndh]

<u>n+c[/]> ngc</u>[n/g]

[3//t] xga <[//] x+a

n+9[i] > ngg [nig]

1+ch[/h] > nkc [nk/

<u>n+qh[ih]</u> > <u>nkq</u> [ηki]

1 + xh[//h]> nbox [\u03bbk//]

verb or ulu-class

-rweba [-xwc6a] (barter)

urano [uxano] (suspicion)

-hiala (live)

uhlohlo (string of beads)

-dla (eat)

udladla (grain store)
-cengceleza (recite)

-qwenga (tear)

ugaga (back)

-xaka (Ilabbergast)

uxande (rectangular house)

-chwela (peel)

uchuku (trifle)
-qhuba (go forward)

uqholo (tribute)

-xhentsa (dance)

uxhaxhazo (leg-ring)

Sounds which are influenced

Xh.6.21.4. The sound which are being influenced are the aspirates \underline{kh} , \underline{th} , and \underline{ph} ; the radical and aspirated clicks; fricatives \underline{f} , \underline{v} , \underline{s} , \underline{z} , \underline{sh} , \underline{dl} and \underline{hl} ; also devocalized sounds become vocalized.

class inintlalo [int4'alo] (way of living) iintlalo [int4'alo] inkrwebo [inkx'wc65] (trade) indlelo [indhelo] (crop of bird) indlelo [indhelo] ingcengceleza (long story) ingqwenga (councel) ingxaki (obstacle inkcwela (shaving) inkqubo (progress) inkxentsi (good dancer) plural of classes iniinkrwebo [inkx'wrbo] and ulu-: class iziningcengcelezo inkrano [inkxano] intlohlo [intacto] ingcango lindadla [ind haha] inggaga iinkqolo iinkqubo iinkcuku iingxande ingqwenga iinkxaxhazo adjective entle [Ent 4'E] (beautiful) > -<u>hle</u> [-4]

NASALIZING OF VOWELS

Xh 6 23 Nasalizing of vowels does not occur in Xhosa.

PALATALIZATION

Causes

Xh. 6, 24. 1.

(i) the vowel i with its equivalent semi-vowel y, e.g.

inkabi (ox) > diminutive *inkabiana > *inkabyana >ınkatyana (small ox)

(ii) the vowel e with its equivalent semi-vowel y, e.g.

*ihlombyana > ihlonjana ihlombe (pleasure) > diminutive *ihlombeana >

(iii) the vowel u and its equivalent semi-vowel w, e.g.

*iphaphu (beart) > diminutive *iphaphuana > *iphaphwana > *iphatshana (small heart)

(iv) the vowel o with its equivalent semi-vowel w, e.g.

inkomo (cow) > diminutive *inkomoana > *inkomwana > inkonyana (calf)

Where palatalization occurs

Xh.6.24.2.

(i) with diminutive of nouns, e.g.

inkabi (ox) > inkatyana

(ii) with passives of verb stems, e.g.

-hlupha (worry) > -hlutshwa (be worried)

(iii) with locatives of nouns, e.g.

umlomo (mouth) > emlonyeni (in the mouth)

(iv) with a number of class prefixes before a vowel stem, e.g. utywala (beer) < *ubuala

Sound changes caused

Xh. 6. 24. 3.

b [6] > ty [c1]: inkabi (ox)

-goba (bend)

ihlobo (summer)

-gotywa (be bent)

inkatyana (small ox)

utywala (beer)

*ubuala ehlotyeni (in summer)

bh [b]> [d]: isigubu (calabash) ٧

isigujana (small

calabash)

-bhubha (perish)

isigubbu (calabash) ٧ -bhujwa (be perished)

esigujini (in the calabash)

ph>tsh [tfh]: iphaphu (heart)

٧

iphatshana (small

beart)

-phupha (dream)

iphaphu (heart)

ephatshwini (in the

heart)

-phutshwa (be dreamt)

: umlomo (mouth)

٧

umlonyana (little

mouth)

四>四/[元]

-luma (bite)

intamo (neck)

unyana (son)

mp>ntsh[Itf']: isitampu (stamp)

-mpompa (pump)

*umuana

entanyeni (in the neck)

-lunywa (be bitten)

isitantshana (small

-mpontshwa (be pumped)

163

ihlwempu (pauper) ٧ ehlwentshini (to a pauper)

 $\underline{mb} > \underline{nj} [nd3]$: intambo (line) intanjana (little string)

intambo (string) -bamba (catch) entanjeni (to a string) -banjwa (be caught)

ny [p] imfene (baboon)

Note that with passives the semi-vowel w is retained

\ !n

imfenyana (small baboon)

Sounds that change

occur with them. number of alveolar sounds change although unchanged alternatives It is mainly labial sounds which change.

With passives and locatives only labials change.

PLOSIVATING

NASALIZATION. This term is not used for Xhosa. Vide

STRENGTHENING

NASALIZATION. Xh. 6. 26. This term is not used for Xhosa. Vide

VELARIZATION

Xh. 6. 27.

Velarization does not occur in Xhosa.

VOCALIZATION

Xh. 6, 28,

Vocalization does not occur in Xhosa.

VOWEL COALESCENCE

Xh.6.29.1. Vowel coalescence is caused by

- (i) a which appears before i;
- (ii) a which appears before u;
- (iii) a which appears before a.

Circumstances under which vowel coalescence occurs

Xh.6.29.2.

(i) after connective na-, e.g.

nenja (with a dog) < *nainja

(ii) after instrumental nga-, e.g. ngento (with a thing) < *ngainto

(iii) after a possessive concord, e.g.

womntu (of a person) < *waumntu

(iv) where locative -ini follows on a, e.g.

(v) in the formation of a demonstrative from la-plus entabeni (on the mountain) < *entabaini

lo (this one) < *lau (class um-) le (this one) < *lai (class in-, imi-) demonstrative root, e.g.

(vi) where an a occurs before a verb stem with a latent initial vowel, e.g.

uyeva (he hears) < *uyaiva

VOWEL RAISING

Causes

Xh.6.30.1. Vowel raising is caused by the high vowels i and u.

They have an influence on and \underline{e} [ϵ] or \underline{o} [\circ] of a syllable immediately preceded by one with \underline{i} or \underline{u} , \underline{e} , \underline{g} , \underline{inkosi} [$i\eta kosi$] (chief), but $\underline{inkosana}$ [$i\eta kosana$] (petty chief). Note that [ϵ] and [\circ] are raised to [e] and [\circ] respectively but that it is not shown in the practical orthography.

Where vowel raising occurs

Xh. 6. 30. 2.

- (a) An <u>i</u> follows in the following cases after an [5] or $[\epsilon]$:
- (i) locative -ini, e.g. [inkomo] (cow)>[enkomeni] (to a cow)
- (ii) causative <u>-isa</u>, e.g. [-60na] (see) > [-6onisa] (cause to see)
- (iii) perfect <u>-ile, e.g. [-lle], e.g. [-60na] (see) [-60nile]</u> (have seen)
- (iv) the personal ending -i, e.g. [-60na] (see) > $[u\bar{m}60ni]$ (person who sees)
- (v) negative terminative -i, e.g. [-senga] (milk) > [-sengi] (not milk)
- (vi) \underline{i} in the class prefixes \underline{imi} , \underline{ili} , \underline{isi} , \underline{izi} and \underline{izin} , e.g. $\left\{nesil\, \mathcal{D}\right\}$ (also a beast)
- (vii) the final <u>-i</u> of demonstratives of classes <u>imi</u>, <u>ili</u>, <u>isi</u>, <u>izi</u> and <u>izin</u>, e.g. [eli] (this one) class <u>ili</u>
- (viii) i- which occurs in a root, e.g. [entsimini](in the field),
 [ηgozipho] (with a claw)
- (b) A \underline{u} follows in the following cases on $[\epsilon]$ and $[\mathfrak{o}]$:
- (i) u- of all class prefixes in which it occurs, e.g.
 [ŋgoluthi] (also a stick) including [um-](<umu-), e.g.
 [nomntu] (also a person)
- (ii) u- as final vowel of demonstratives which belong to classes in which u occurs, e.g. [obu] (this), class ubu-
- (iii) -u as a terminative of nouns, e.g. [isilevu] (chin)

- (iv) -u as a vowel of a root, e.g. [ngokhuk'o] (with a mat)
- (v) -u as final vowel of ideophones, e.g. [kx'ebu] (red as blood)
- (c) Note also that the influence of <u>i</u> and <u>u</u> on a preceding vowel may also be applied retrogressively on vowels further forward in Xhosa. In all syllables with an o[c] or e[c] immediately before the close vowels <u>i</u> and <u>u</u> the <u>o</u> or <u>e</u> will be raised to [o] and [e] respectively until a break occurs in the <u>o</u> and <u>e</u>, e.g.

enkomeni [enk'omeni]< inkomo [ink'omo] (head of cattle)

ishologu [ifologu] (misfortune designed by evil spirits)

VOWEL REPLACEMENT

Causes

Xh. 6, 31, 1. The causes of this phenomenon are unknown.

Where vowel replacement occurs

h. 6.31.2. Vowel replacement is found as follows:

- (a) the negative formative <u>-nga-</u> changes to <u>-nge-</u> in the following circumstances:
- (i) before -ka- (not yet), e.g.

ubengekahambi (he had not yet gone)

(ii) before na-, e.g.

bengenalutho (while they have nothing)

(iii) before adjectives, e.g.

engemkhulu (he not being big)

(iv) before relatives, e.g.

engebomvu (he not being red)

(v) before copulatives, e.g.

engenguye (he not being him)

- (b) the progressive formative -sa- (still) changes to -se- in the following circumstances:
- (i) before na-, e.g.

abasenalutho (they no longer have something)

(ii) before adjectives, e.g.

usemkhulu (he is still big)

(iii) before relatives, e.g. usebomvu (he is still red)

(iv) before copulatives, e.g.

-

usengumfana (he is still a boy)

Sounds that change

progressive -sa- changes to high vowel e. Xh. 6. 31. 3. Only the low vowel a of negative -nga- and of

2 SOUND CHANGES OF ZULU

AFFRICATIZATION

e.g. Z6.1.1. Affricatization in Zulu occurs with palatalization,

 $\underline{b} > \underline{tsh} [tJ^{t}]$

Cf. PALATALIZATION.

ALVEOLARIZATION

Сацвев

тогра -у--Z6. 2. 1. Alveolarization in Zulu is caused by the causative

Conditions under which alveolarization occurs

i.e. only with causative verb stems, e.g. Alveolarization has a limited occurrance in Zulu,

-limala (get hurt) > -limaza (hurt)

-suka (go away) >

-susa (take away)

Sound changes caused

| S | V | S l>z: -limala >-limaza < *-limalya -suka > -susa ٨ *-sukya

Sounds changed

alveolar, Z6.2.4. Only one lateral and one velar sound is made

ANALOGOUS NASALIZATION

Z6.3.

Analogous nasalization does not occur in Zulu.

ANALOGY

Causes

formed after its example. A phenomenon is similar to another well known one, and is The causes of analogy are probably psychological.

Where analogy occurs

present (see PALATALIZATION), e.g. stances do not justify it, in other words where no semi-vowel is (i) Palatalization often occurs where the circum-

intaba (mountain) > diminutive intatshana

induna (chief) ٧ diminutive indunyana

occurs on the analogy of the original stem, cf. immediately on sounds that normally palatalize, palatalization Also with verb stems where the semi-vowel -w- does not follow

-hluphela (worry for) > -hlushelwa instead of *-hluphelwa (be -hlupha (worry) >. -hlushwa < *-hluphwa (be worried) but now worried for)

to those of class izin-, in other words nasalization is applied where no nasal occurs, e.g. (ii) The adjective concords of class izi- are similar

izilwane ezintathu instead of *ezithathu (three beasts)

on the analogy of those classes where the root vowel is i- to all ASSIMILATION in these languages) it seems as if this yi- is applied is always vi- in Zulu. Compared to Swazi and Xhosa (see (iii) The copulative prefix for absolute pronouns

classes, hence

yiwo (it is it) instead of *yuwo absolute pronoun class umuyibo (it is they) instead of *yabo absolute pronoun class aba-

of those of the third person, e.g. cords of the first and second persons are formed on the analogy (iv) The adjective concords and the relative con-

engi- (I who) with plural esi- (we who) and eni- (you who) follow follow classes like umu- (> o-, om-). the pattern of classes like isi- (> esi-); o and om- (you who)

ASPIRATION WITH CLASS 11-

Z6.5. Aspiration with class 11- does not occur in Zulu.

ASSIMILATION

following consonant, e.g. in-, plural izin-, where the n becomes assimilated to the (a) Assimilation occurs mainly with class prefix

n + k [NG] |

: inkabi [tūk¹abi] (ox), cf. -khaba
(kick)

д + р ٧

["qm] qm : impendulo (an answer), cf. -phendula (answer)

n+b[6] > mb [mb]

: izimbambo (ribs), cf. singular ubambo [u6ambo]

kpu]in <[chi] i+n

injabulo [th dzabulo] (happiness), cf. -jabula (be glad)

Cf. also NASALIZATION

Cf. also VOWEL RAISING. uku 6 ona] (to see) but umboni [um 6 oni] (someone who sees). (b) Vowels may also assimilate, e.g. ukubona

171

17:

(c) Assimilation of kh: kh occurs normally only in the first syllable of a stem; if a kh occurs in another syllable, it is the result of assimilation to the kh of the stem syllable, e.g.

-khokha (take out) instead of *-khoka

ukhakhayi (top of skull) instead of *ukhakayi

(Cf. Xhosa)

(d) Complete vowel assimilation occurs, inter alia

(i) with locative ku-: kimi instead of kumi (to me), kithi instead of kuthi (to us)

(ii) with derivations of the verb stem -sho (say), e.g. imperative shono! (say) < *shoni; negative -shongo instead of *-shonga e.g. angishongo (I did not say); applied -sholo, etc.

with perfect verb stems on -ana where the l of perfect suffix -ile is assimilated to n, e.g. -bonana (see each other) > -bonane (have seen each other), i.e. *-na+ile > *-nine > -ne

(iv) with the imperative of -thi (say), viz. thana! < *thani

(v) with the future tense: angizi kuhamba > angizukuhamba (I shall not walk)

ASSONANCE

26.7. In Zulu assonance occurs mainly with ideophones in which a great variety of assonance forms occur, e.g.

(i) shishilizi (slip) with identical vowels

(ii) gunguluzi (deflect) with high vowels

(iii) fafalazi (do superficially) in which assonance covers the whole word except the final vowel; the final vowel is in fact the opposite (high) of the other vowels (low).

It should be remembered that not all ideophones are subject to assonance in Zulu.

CONSONANTALIZATION

Causes

26.8.1. Consonantalization is caused when one vowel appears before another, e.g.

ukuyakha (to build it) < *ukuiakha

Where consonantalization occurs

Z6.8.2.

(i) with a subject concord u or i before a vowel, e.g.

wakhile (he has built) < *uakhile

yalile (it has refused) < *ialile

(ii) with class prefixes uku and ulu- before vowel stems, e.g.

ukwakha (to build) < *ukuakha

ulwazi (knowledge) < *uluazi

(iii) with the concords of classes uku- and uiu- before vowels, e.g.

uyakwazi (he knows it) < *uyakuazi
uyalwenza (he does it) < *uyaluenza

(iv) with locative suffix -ini, e.g. esangoini

(v) with diminutive -ana, e.g.
umntwana (child) < *umuntuana

(vi) in a number of cases where e penetrates into the root, e.g.

-khwehlela (cough) and -khohlela

umumwe and umumo (finger)

Sound changes caused

Z6.8.3.

(i) u > w : ukwakha (to build)

(ii) o > w : isilwane (beast)

(iii) $\underline{i} > \underline{y}$: yakhile (it has built)

Sounds which change

Z6.8.4. Only the back vowels <u>u</u> and <u>o</u> and the front vowel <u>i</u> change.

DE-ASPIRATION

De-aspiration does not occur in Zulu.

Z6.9.

DENASALIZATION

Z6.10. This phenomenon does not occur in Zulu.

DENTI-LABIALIZATION

Z6.11. This phenomenon does not occur in Zulu.

DEVOCALIZATION

Causes

26.12.1. Devocalization has a limited occurrance in Zulu and is the result of the elision of the nasal of class in-.

Circumstances under which devocalization occurs

Z6.12.2. Devocalization occurs mainly with nouns which originally belonged to class in-but which changed from class

without reverting to the original sound, e.g.

isibhuzikazi (she-goat) cf. imbuzi (goat)

isibhuzazana (female kid) cf. imbuzi (goat)

amadoda plural of indoda (man)

igazi (blood) and ingazi

It is possible that all stems which begin with $\underline{b}\underline{b}$, \underline{g} , \underline{d} , including verbs, may have originated in this way, i.e. that an original nasal compound lost its nasal.

Sound changes caused

 $26.12.3. \qquad \underline{b} \quad [6] > \underline{bh} \quad [b]$

 $[b] \overline{p} < [p]$

 $\begin{bmatrix} \hat{s} \end{bmatrix} > \underline{g} \begin{bmatrix} \hat{s} \end{bmatrix}$

For examples see above.

Sounds which change

Z6.12.4. Only the fully voiced g, d, and b (which of course occur in the compounds ng [ng], nd [nd] and mb [mb] only, cf. par. Z5.6., Z5.8., Z5.10 etc.) are subject to devocalization.

DISSIMILATION

Z6.13. (a) Dissimilation is mainly found with palatalization, i.e. where a labial sound changes into a palatal sound, e.g.

b [6] > tsh [tf]: -loba (write) > -lotshwa (written)

See also under PALATALIZATION.

(b) Dissimilation of loccurs in the perfect when a verb stem of more than two syllables end in -ela, e.g.

-bambela (catch for) > -bambele (have caught for) i. e.

ELISION

Z6.14.1. There are three kinds of elision in Zulu

- (a) morphological elision
- (b) optional syntactical elision
- (c) compulsory syntactical elision

(a) Morphological elision

26.14.2. In morphological elision (or grammatical elision) certain formatives are derived by means of elision, e.g.

(i) the possessive concord in which the pronominal element loses its vowel before the formative -a, e.g.

(ii) the elision of the final -na of the absolute pronoun or of the possessive pronominal stem, e.g.

Here we have at the same time elision of a syllable.

(iii) the elision of the vowel of the quantitative concord before the quantitative stem -onke, e.g.

(iv) the elision of the vowel of a variety of formatives which occur before a vowel verb stem, e.g.

subject concord : sakha (we build) < *siakha

object concord : uyalakha (he builds it) < *uyaliakha present tense -ya- : uyenza (he is doing) < *uyaenza

negative -nga- : ungenzi (don't do) < *ungaenzi

(v) with diminutives in which palatalization is avoided, e.g.

ungenza (you can do) < *ungaenza, etc.

potential -nga-

impana < *impiana diminutive < impi (war)

(vi) with connective na- before relative and adjective concords, e.g.

nenkulu < *naenkulu (also a big one)

(vii) with instrumental <u>nga-</u> before relative and adjective concords, e.g.

ngebomvu < *ngaebomvu (with a red one)

(viii) with the various forms of the future tense, e.g.

ngiza kubona (I shall see) > ngizaubona > ngizobona > ngobona

Note that elision never occurs when a and i or a and u follow each another. See VOWEL COALESCENCE.

(b) Optional syntactical elision

26.14.3. By optional syntactical elision of vowels is understood the elision of vowels which occur in rapid speech, but which are not necessary in the slow and clear enunciation of a word, in other words the elision of vowels here is optional and has no influence on the meaning of the sentence or the word. In this kind of elision it is always the final vowel of a word which is dropped:

(i) when nouns are followed by an adjective or a relative, e.g.

inkom'enkulu (a large cow)

umumt'oqotho (an honest person)

(ii) when qualificatives occur before nouns, e.g.

abakhul'abantu (big people)

obomv'umuntu (a red person)

ezam'izinkomo (my cattle)

(iii) when absolute pronouns of the third person occur before nouns, e.g.

bon'abantu (they the people)
lon'ihashi (the horse, it)

(iv) when quantitatives occur before nouns, e.g.

bonk'abafazi (all the women)
bodw'abantu (only the people)

(v) when a verb is immediately followed by a word which begins with a vowel, e.g.

ngitheng'ingubo (I buy a blanket)
uthand'ukubon'umumtu (he wants to see a person)

(vi) with contracted forms of the auxiliary verbs -be and -se, e.g.

ube ubona > ububona (you were seeing)

use ubona > usubona (you see already)

(vii) with auxiliary verbs which lose their subject concord, although it is retained with the main verb, e.g.

suke wathi instead of usuke wathi (he immediately said)

(c) Compulsory syntactical elision

Z6.14.4. This type of elision occurs in certain types of

syntactical forms, and cause a change of meaning compared to those forms without elision.

(i) the vocative:

nkosi (the chief), but

(ii) after the absolute pronoun of the first and second persons, e.g.

wena nkosi! (you, sir), but

wena inkosi (you, the chief)

(iii) after demonstratives before nouns:

lo-muntu (this person), but

lo umuntu (this one the person or this person)

(iv) with absolute negation:

angifuni ngubo (I don't want any blanket)
angifuni ingubo (I don't want a blanket)

(v) with enumeratives:

ufuna zinja zini (what kind of dog are you looking for?)

(vi) with na- in the negative, cf.

akanankomo (he has no cow), cf.

unenkomo (he has a cow)

Note that elision occurs with the initial vowel of the class prefix of the noun.

FRICATIVIZATION

Causes

26.15.1. Fricativization in Zulu overlaps with palatalization,

i.e. a labial w causes a fricative sound.

Where fricativization occurs

26.15.2. As already indicated fricativization occurs where palatalization is found, i.e. with diminutives, passives and locatives, e.g.

ph > sh, e.g. -bopha (tie) > -boshwa (be tied)

Sound changes caused

Z6.15.3. ph > sh

tb > sb

These are dealt with under PALATALIZATION.

1 > dl [h] as in -khulu (big) > -khudlwana (biggish)

Cf. also $\underline{k} > \underline{s}$ under ALVEOLARIZATION.

Sounds which change

Z6.15.4. A labial, an alveolar, a liquid and a velar sound change.

INTERCHANGE OF VOICELESS AND VOICED CONSONANTS

NA SON

Causes

26.16.1. The cause for this phenomenon seems to lie in the need of another shade of meaning, and in the voiced form which suggests a powerful and fiercer action.

Where interchange occurs

Z6.16.2. There are no fixed rule which can be determined. It can be seen as a trend.

interchanges that occur

Z6.16.3.

- (i) kh and g interchange, and sometimes also with k, e.g. kete (chatter), khethe (babble) and gede (chatter loudly)
- (ii) th and d interchange, and sometimes also with t, e.g.
 tapu (touch something soft), thaphu (take something),
 daphu (grab)
- (iii) ph and bh [b] interchange, and sometimes also with p, e.g.

 paku (slap lightly), phaku (flutter), bhaku (be exited)

 (iv) ph and bh [b] and b [6] interchange, e.g.
- phihli (break into pieces), bhidli (demolish), bihli (fall down, as plaster)
 (v) f and v interchange, e.g.
 fece (dent) and vece (dent much)
- (vi) hl and dl interchange, e.g.

hlafu (tear), dlafu (tear off)

This phenomenon is fully discussed by dr. Louw in an article titled The Consonant Phonemes of the Lexical Root in Zulu, Afrika und Übersee, Band XLIII, 1964.

INTERNAL VOWEL CHANGE

-

Causes

Z6.17.1. This phenomenon is caused by the i of the perfect suffix which is transposed to a preceding syllable in which a is present.

26.17.2. It is found with the stative form of verbs with the suffixes -ala, -ama, -ana, -asa and -atha.

Sound changes caused

Z6.17.3.

(iv)

3

Sounds that change

Z6.17.4. Only an a is changed through vowel coalescence.

N. B. The explanation given here is of course a diachronic one. The explanation can also be seen synchronically by which a assimilates partly to following i (of -ile) after which I drops out.

JUXTAPOSITION OF VOWELS

Z6.18. - When two vowels are juxtaposed, the following happen:

- (i) the two vowels coalesce see VOWEL COALESCENCE
- (ii) one vowel becomes a semi-vowel see CONSONANTALI-ZATION
- (iii) a glide, viz. \underline{w} before \underline{u} and \underline{a} , and \underline{y} before \underline{i} is inserted between two vowels, e.g.

uyawabona (he sees them) < *uvaabona

aviboni (he does not see) < *aiboni, cf. ivabona (he is seeing)

N.B. The term juncture is also used to indicate glides as in (iii) above.

LABIALIZATION

Z6.19.1. Labialization does not occur in Zulu.

METATHESIS

Z6.20. This is a psychological phenomenon. The speaker already has the following sound in mind and actually pronounces it before the sound which should come first, e.g.

-phekeleza for -phelekeza (accompany)

Metathesis does not occur very frequently in Zulu.

NASAL STRENGTHENING

Z6.21. Vide STRENGTHENING, NASALIZATION, PLOSIVATING.

NASALIZATION

Свивев

Z6.22.1. Nasalization is caused by the nasal of class in- and class izin- (classes 9 and 10) with deverbatives and adjectives, and plurals with izin- for class ulu-.

Where nasalization occurs

Z6. 22. 2.

(i) with nouns stems of classes in- and izin-, e.g. impilo (live) cf. -phila (live)

izimbambo (ribs) plural of ubambo [ubambo] (rib)

(ii) with adjective stems, e.g.

enkulu (a big one) < -khulu (big)

(iii) with class tzi- (class 8) where no nasal occurs, but which behaves in its concords like class tzin-, undoubtedly on the analogy of class 10, e.g.

izilwane ezintathu (three beasts) < -thathu (three)

Z6.22.3. Sound changes brought about

n+sh		D + Z		D+ s		D+ v	n + i v	n · bh [b] >		$\underline{n+d}$ $[d]:>$	> [\$] \$\frac{\beta}{a} + \alpha\$		n + kb >		n+th >		n + ph >		n+b[6]>	
> ntsh [ntf]		> <u>nz</u> [ndz]		> ns [nts']		> <u>mv</u> [mov]	m [mpf1]	<u> </u>		nd [nd]	. <u>ne</u> [ve]		<u>क्र</u> [ग्रह्म]				mp [mp']		mb [mb]	bamos
-sheleza (cause to slip)	uzipho (nail)	-zika (sink)	usuku (day)	-sola (find fault)	uvu (grey hair)	-vusa (awaken)	-funda (learn)	ubhece [ubɛ/ɛ] (speak nonsense) where [ubɛ/ɛ] (kaffer water- melon)	udaka [udaka] (mud)	-delela [-delela] (despise)	-gijima [-giḍzimaj- (run)	ukhezo (spoon)	-khuluma (speak)	uthi (stick)	-thanda (love)	uphondo (horn)	-phila (live)	ubambo [u6ambo] (rib)	-bonga [-6 onga] (praise)	verb and lu- class

ushikishi (bad tempered person)

zika [mdzika] ediment)

lippery place)

izintshikishi [izintʃikiʃi]

-sha (new) > entsha [cntf'a]

izintshelezi [izintf'elezi]

[cdqizbaizi] odqizaizi izinzika [izindzika]

	solo [inteolo](criticism)	nvusi [im dvusi] (one ho awakens)	nfundo [impfundo]	nadman)		<pre>contempt) contempt) contempt</pre>	a manage of a	ngijimi [ingid zimi]	speech	camlumo [ink'ulumo]		(Iliw) [chastai] obnata		mpilo [imp'llo] (life)		mbongi [imbongi] (poet)	class in-	
izinsuku [izints*uku]	[clc'stmixi] olosmixi	izimvusi [izimdvusi]	izimfundo [izimpfundo]	izimbude [izimbude] izimbece [izimbe/e]	izindaka [izindaka]	izindelelo [izindelelo]	[claggizi] olagaizi	[imi spisari] imilizatzi	izinkezo [izink'czo]	zinkulumo [iziŋk'ulumo]	izint*i [izint*i]	izintando [izint'ando]	[cbnc,durzi] opuodurzi	[c li'qmizi] oliqmizi	[cdmadmizi] odmadmizi	izimbongi [izimbongi]	plurals of classes in- and ulu- viz. class izin-	
		[empf'ufanc] (short)	-fushane > emfu-		(old)	-dala [dala]>			(big)	-khulu > enkulu	thu (three)	-thathu > ezinta-			> embi (bad)	-bi [-bi] [embi]	adjective	

Z6.22.3. (Continued)

<u>n+xh</u> [//h] >		ր + գհ [1 հ] >		<u>n + ch</u> [/h] >	•	л+х [//] >		> [:] p+q		n+c [/] >	nasalization occur.	Note that in the last	n+1 V	1	w + u	<u>n+h</u> [fi] >	<u>n+h</u> [h] >	n+dl		n + hl >	
[//t] xa	<u></u>	<u>ng</u> [vi]	ngc [n/s]	nc [v/]		[3//g] x <u>3a</u>		[3] a [3]		[3/x]		our examples qu	[ba]		[30]	mg [vg]	<u>nk</u> [vk']	במת [מינו]		nh] [nt4"]	sound
-xhoza (pull down) uxhushela (sharp instrument)	cf. qhathu (whipping) and	-qhuba (progress)	ushilo (bill)	-chwaya (dance)	uxushela (sharp instrument)	-xoxa (tell)	ugwegwe (scab)	-quba (make dust)	ucezu (a little piece)	-caya (hide)		Note that in the last four examples quoted alternatives without	ulimi (tongue	2	uwalakahla (long person)	whobo [ufication] (big hut)	uhazane (person who walks fast)	udlubu [uhu6u] (jugo bean)	Jane (kind)	-hlupha (worry)	verb and lu- class

class in-	plurals of classes in- and ulu- viz, class izin-	adjective
inhlupho [int4hpho] (difficulty)	[cdquffinizi] odoldnizi	-hle (beautiful)
indlakudla [indhakuha] (goat)	izindlakudla [izindhakuha] izindlubu [izindhubu] izinkazane or izihazane	[ent41e]
	izingoho [iziŋgɔfiɔ] or izihoho [izifiɔfiɔ] izingwalakahla or iziwalakahla	
	izindimi or izilimi	
ingcayi (apron)	izingcayi	
ingguba (rhist narticles)	izingcezu	
	izingqweqwe	
ingxoxo (narrative)	izingxoxo	
incwayi (dancer)		
	izingcilo	
inqubo (progress)	izinqubo	
ingqathu (skipping rope)	izingqathu	
inxoza (fibre)		

izincushela

Sounds which are influenced

Z6.22.4. The sounds which are influenced are the aspirates kh, th and ph; radical and aspirated clicks; fricatives f, v, s, z, sh, dl and hl; also devocalized sounds become vocalized. A number of sounds have alternatives with and without nasalization.

NASALIZING OF VOWELS

Nasalizing of vowels does not occur in Zulu.

Z6.23.

PALATALIZATION

Causes

-

Z6.24.1.

(i) the vowel i with its equivalent semi-vowel y, e.g.

inkabi (ox) > diminutive *inkabiana > *inkabyana > inkatshana (small ox)

(ii) the vowel e with its equivalent semi-vowel y, e.g.

uphaphe (feather) > diminutive *uphapheana > *uphaphyana > uphashana (little feather)

- (iii) the vowel u and its equivalent semi-vowel w, e.g.

 isigubhu (calabash) > diminutive *isigubhuana >

 *isigubhwana > isigujana (small calabash)
- (iv) the vowel o with its equivalent semi-vowel w, e.g.

inkomo (cow) > diminutive *inkomoana > *inkomwana > inkonyana (calf)

49

V

<u>sh</u> [5]

Where palatalization occurs

Z6.24.2.

(i) with diminutive of nouns, e.g.

inkabi (ox) > inkatshana (small ox)

(ii) with passives of verb stems, e.g.

-hlupha (worry) > -hlushwa (be worried)

(iii) with locatives of noms, e.g.

isigubhu (calabash) > esigujini (in a calabash)

(iv) with a number of class prefixes before a vowel stem, e.g.
unyaka (year) < *umuaka

Sound changes caused

26.24.3.

A SA

 \underline{b} [6] > \underline{tsh} [tʃ'] : \underline{inkabi} (ox) > $\underline{inkatshana}$ (small ox).

-loba (write) > -lotshwa (be written)
ingubo (blanket) > engutsheni (in the

blanket)

utshwala (beer) < *ubuala class bu-

bh [b] > 1 [dʒ] : isigubhu (calabash) > isigujana (small calabash)

-gubha (hollow out) > -gujwa (be hollowed out)

isigubhu (calabash) > esigujini (in a calabash) : impuphu (meal > impushana (a

hipha (take out) > impushana (a little meal)

-khipha (take out) > -khishwa (be taken out)

impuphu (meal > empushini (in the meal)

189

日日

V

191

With passives and locatives only labials change.

ny [n]: umlomo (mouth) ٧ umlonyana (small mouth)

umlomo (mouth) -luma (bite) ٧ ٧ emlonyeni (in the -lunywa (be bitten) moutb)

mp > ntsh[ntf]: inswempe (patridge) >

inswentshana (small patridge)

-mpampa ٧

-mpantshwa (be fluttered)

odatoquan (shamelessness) ٧

> ebuphontsheni (in shame)

mb > nj [nd3]: intambo (thong) -bamba (catch) ٧ V -banjwa (be caught)

intanjana (a small _ thong)

umthombo (fountain) > emthonjeni (in the

fountain)

th remains or becomes sh [5], e.g.

isikhathi (time) > isikhathana or isikhashana (a little time)

d remains or becomes i [d3] e.g.

incwadi (book) > incwadana or incwajana (a little book)

nd remains nd or becomes nj, e.g.

iqanda (egg) > iqandana or iqanjana (a small egg)

t > tsh [tf] : ikati (cat) > ikatshana (a small cat)

[n] ख < <u>च</u> : imfene (baboon) > imfenyana (small baboon)

Note that with passives the semi-vowel w is retained.

Sounds that change

of alveolar sounds change although unchanged alternatives occur Z6.24.4. with them. It is mainly labial sounds which change. A number

PLOSIVATING

NASALIZATION. This term is not used for Zulu. Vide

STRENGTHENING

Z6.26. NASALIZATION. This term is not used for Zulu. Vide

VELARIZATION

Z6.27. Velarization does not occur in Zulu.

VOCALIZATION

Vocalization does not occur in Zulu.

Z6.28.

VOWEL COALESCENCE

Causes

Z6.29.1. Vowel coalescence is caused by

(i) a which occurs before i;

(ii) a which occurs before u;

(iii) a which occurs before a

Circumstances under which vowel coalescence occurs

Z6.29.2.

(i) after connective na-, e.g.

nenja (with a dog) < *nainja

(ii) after instrumental nga-, e.g.

ngento (with a thing) < *ngainto

(iii) after a possessive concord, e.g. womfazi (of a woman) < *waumfazi

(iv) where locative -ini follows on a, e.g.

entabeni (at the mountain) < *entabaini

3 in the formation of a demonstrative from la-plus demonstrative root, e.g.

le (this one) < *lai, class in-, imi-

lo (this one) < *lau, class umu-

laba (these) < *laaba, class aba-

(vi) where an a occurs before a verb stem with a latent initial

uyezwa (he hears) < *uyaizwa

(vii) in the various forms of the future tense vowel coalescence plays an important part, e.g.

ngiza kubona (I shall see) > ngizokubona, coalescence

ngizaubona, elision,

> ngizobona, elision and coalescence,

ngobona, elision and coalescence

VOWEL RAISING

Causes

They have an influence on and e [c] or o [o] of a syllable shown in the practical orthography. (chief) but inkosana[inkosana](petty chief). Note that [c] and immediately preceded by one with i or u, e.g. inkosi [inkosi] [o] are raised to [e] and [o] respectively but that it is not Vowel raising is caused by the high vowels i and u.

Z6.30.2.

(a) An <u>i</u> follows in the following cases after an $[\epsilon]$ or $[\mathfrak{I}]$:

(i) locative -ini, e.g. [inkomo] (cow) > [enkomeni](to the

(ii) causative -isa, e.g. [-6ona] (see) > [-6onisa] (cause to

(iii) perfect -ile, e.g. [-6ona] (see) > [-6onile] (have seen)

(iv) the personal ending -i, e.g. [-6ona] (see) > [um6oni] (person who sees)

(vi) i in the class prefixes imi-, ili-, isi-, izi- and izin-, e.g. [nesilwant] (also a beast) 3 negative terminative -i, e.g. [ukusenga] (milk) but [kungasengi] (not to milk)

(vii) the final -i of demonstratives of classes imi-, ili-, isi-, izi- and izin-, e.g. [leli] (this one), class ili-

(viii) i- which occurs in a root, e.g. [ents'imini] (in the field), [ŋgozipho] (with a claw)

(b) As u follows in the following cases on $[\varepsilon]$ or $[\circ]$:

(1) u- of all class prefixes in which it occurs, e.g. ngomuthi (with a tree) including the short form [um-] of the umuclass, e.g. [ngomfana] (concerning a boy)

(ii) u- as final vowel of demonstratives which belong to classes in which u occurs, e.g. [lobu] (this), class ubu-

-u as a terminative of nouns, e.g. [isilevu] (beard)

(M) -u as a vowel of a root, e.g. [oqungeni] (at the tambookie grass)

-u as final vowel of ideophones, e.g. [k4-ebu] (as red as blood)

VOWEL REPLACEMENT

Causes

Z6.31.1. The causes of this phenomenon are unknown.

Where vowel replacement occurs

Z6.31.2. Vowel replacement is found as follows:

- (a) the negative morph -nga- changes to -nge- in the following circumstances:
- (i) before -ka- (not yet), e.g. ubengekahambi (he has not yet gone)
- (ii) before na-, e.g. bengenalutho (while they have nothing)
- (iii) before adjectives, e.g. engemkhulu (he not being big)
- (iv) before relatives, e.g. engebomvu (he not being red)
- (v) before copulatives, e.g. engenguye (he not being him)
- (b) the progressive morph -sa- (still) changes to -se- in the following circumstances:
- (i) before ma-, e.g. abasemalutho (they no longer have something)
- (ii) before adjectives, e.g. usemkhulu (he is still big)
- (iii) before relatives, e.g. usebomvu (he is still red)
- (iv) before copulatives, e.g. usengumfana (he is still a boy)

Sounds that change

26.31.3. Only <u>a</u> of negative <u>-nga-</u> and of progressive <u>-sa-</u> changes to <u>e</u>.

3. SOUND CHANGES IN SWAZI

AFFRICATIZATION

Sw.6.1. Affricatization in Swazi occurs with palatalization. e.g.

 $\underline{b} > \underline{tsh} \ [t J^{\tau}]$

Cf. PALATALIZATION.

ALVEOLARIZATION

Causes

Sw.6.2.1. Alveolarization in Swazi is caused by the causative morph <u>-y-</u>.

Conditions under which alveolarization occurs

Sw. 6.2.2. Alveolarization has a limited occurrance in Swazi, i.e. only with causative verb stems, e.g.

-limala (get hurt) > -limata (hurt)

-suka (go away) > -susa (take away)

Sound changes caused

Sw. 6. 2. 3. l > t: -limala > -limata < *-limalya k > s: -suka > -susa < *-sukya

Sounds changed

Sw.6.2.4. Only one lateral and one velar sound is made alveolar.