

Vowel Fronting in Daakie (Ambrym, Vanuatu)

Manfred Krifka
krifka@leibniz-zas.de

Current Aspects of Preference Theory
A Symposium on Occasion of Theo Vennemanns 80th Birthday
Ludwig-Maximilians-Universität München
December 9, 2017

Some background



The language Daakie:

- ◆ an Austronesian (Oceanic) language
- ◆ spoken by about 1000 persons
- ◆ on the south coast of the island of Ambrym in Vanuatu
- ◆ also known as Port Vato

Research based on

- ◆ Field work starting 2008
- ◆ funded by VolkswagenStiftung,
Dokumentation bedrohter Sprachen (DobeS), 2009 – 2013
- ◆ further funded by DFG,
Tense, Modality, Aspect, Polarity in Melanesian languages (MelaTAMP)
- ◆ collaboration with Kilu von Prince (HU Berlin / U Saarbrücken)

Focus of work on

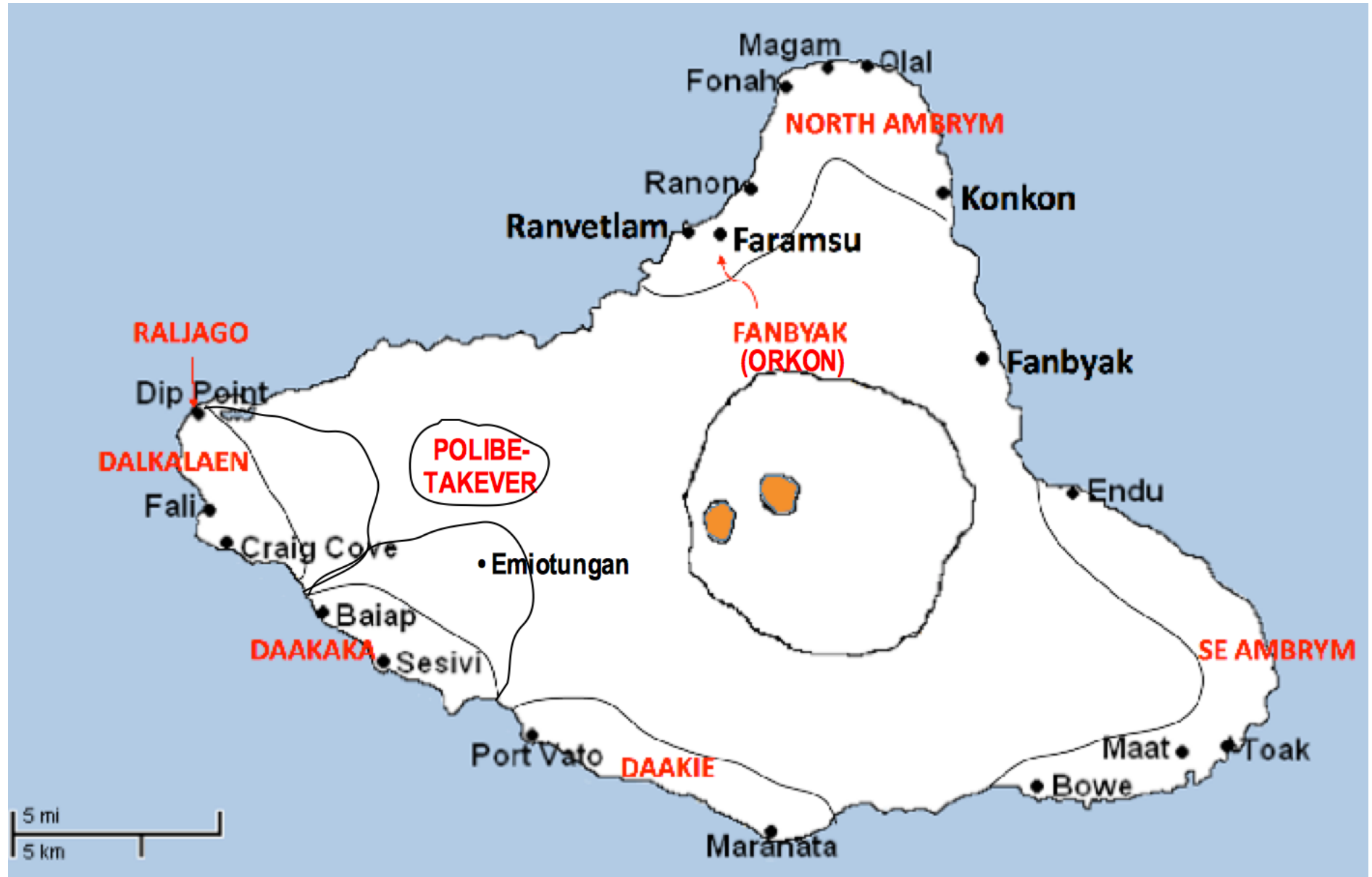
- ◆ audiovisual corpora (> 15h), general grammatical description
- ◆ materials for local use (orthography, dictionary, collection of stories, books)
- ◆ special focus on syntax, semantics, pragmatics

Ambrym, Vanuatu



Languages of Ambrym

About 9000 inhabitants, 5 major languages, 3 small / endangered languages
adapted from Michael Franjeh, 2017



Classification

Classification after Glottolog

Oceanic (522)

► Admiralty Islands (32)

► Central Pacific linkage (45)

► Loyalty Islands (3)

► Micronesian (21)

North and Central Vanuatu (105)

Central Vanuatu (56)

Ambrym (6)

Lonwolwol

► North Ambrym

Orkon-Port Vato-Dakaka (3)

Orkon-Fanbak

Port Vato-Dakaka (2)

Daakie ●

► Dakaka

► Southeast Ambrym

► Epi-Efate (10)

► Malakula (34)

► Namakura

► Paama

► South Pentecost (4)

► Northern Vanuatu (49)

Areal distribution NC Vanuatu, Tryon 1976
10,000 km², 100 lg -- highest density in the world?



HIU
TEGUA
LOH
TOGA
Îles TORRES

3 UREPARAPARA
4
5 MOTA LAVA
6 MOTA
VANUA LAVA
GAUA (Santa-Maria)
12 9
11 10
MWERIG
13
MERE LAVA
Îles BANKS

ESPIRITU SANTO
30 32 31 33 35 58 57 56 54 55 54
36 39 40 41 42 43 53 52 54
37 44 45 46 47 48 49 51
50
TUTUBA
AORE
MALO
90 59 91 92 60 62 61 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89
MALAKULA
14 MAEWO
15
16
17
18
19
20
21
22
23
PENTECÔTE
24
25
26
27
28
AMBRYM
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
TONGOA
TONGARIKI
EMWAE
MAKURA
MATASO
Îles SHEPHERD
NGUNA
MOSO
LELEPPA
EMAU
EFATE

Les langues du Vanuatu

- | | |
|-------------|-------------------|
| 1 Hiw | 15 Maewo centre |
| 2 Toga | 16 Baetora |
| 3 Lehali | 17 Ambae nord-est |
| 4 Lehalurup | 18 Nduindui |
| 5 Motlav | 19 Raga |
| 6 Mota | 20 Apma |
| 7 Vatrata | 21 Sowa |
| 8 Mosina | 22 Seke |
| 9 Nume | 23 Sa |
| 10 Wetamut | 24 Ambrym nord |
| 11 Koro | 25 Lonwolwol |
| 12 Lakona | 26 Dakaka |
| 13 Merlav | 27 Port Vato |
| 14 Marino | 28 Ambrym sud-est |
| | 29 Paama |
| | 30 Valpei |
| | 31 Nokuku |
| | 32 Vunapu |
| | 33 Piamatsina |
| | 34 Tolomako |
| | 35 Tasmate |
| | 36 Wusi |
| | 37 Akei |
| | 38 Malmariv |
| | 39 Navut |
| | 40 Lametin |
| | 41 Morouas |
| | 42 Roria |
| | 43 Fortsenal |
| | 44 Amblong |
| | 45 Wailapa |
| | 46 Araki |
| | 47 Tangoa |
| | 48 Narango |
| | 49 Malo |
| | 50 Aore |
| | 51 Tutuba |
| | 52 Tambotalo |
| | 53 Polonombauk |
| | 54 Mafea |
| | 55 Shark Bay |
| | 56 Butmas-Tur |
| | 57 Lorediakarkar |
| | 58 Sakao |

- 60 Atchin
61 Uripiv-Wala-Rano
62 Lingarak
63 Litzlitz
64 Katbol
65 Unua
66 Pangkumu
67 Niolenien (Repanbitip)
68 Aulua



Phonemes of Daakie



Krifka, Manfred. 2012. Notes on Daakie (Ambrym, Vanuatu): Sounds and modality. Proceedings of AFLA 18 (Austronesian Formal Linguistics Association). Cambridge, Mass.: Harvard University, 46-65.

	Labial	Labiovelar	Labio-dental	Alveolar	Palatal	Velar	Glottal
Voiceless	p	p ^w <pw>		t		k	
Prenasalized	^m b 	b ^w <bw>		ⁿ d <d>		^ŋ g <g>	
Nasal	m	m ^w <mw>		n		ŋ <ng>	
Fricative			v	s			h
Trill				r			
Lateral				l			
Approximant		ʋ <w>				j <y>	

Short vowels			Long vowels	
i <i>	[y] <u>	u <u>	i: <ii>	u: <uu>
e <é>	[ø] <ó>	o <ó>	e: <ée>	o: <óó>
ɛ <e>	[œ] <o>	ɔ <o>	ɛ: <ee>	ɔ: <oo>
^(j) æ <á>		a <a>		a: <aa>

Development from NC-Vanuatu: Consonants

- ◆ Clark, Ross. 2009. **Leo Tuai. A comparative lexical study of North and Central Vanuatu languages*. Canberra: Pacific Linguistics.

NC Vanuatu			
	t	k	?
^m b	b ^w	ⁿ d	ŋg
m	m ^w	n	ŋ
v	v ^w	s	
	r	R	
	l		
u	j		

early loss

unclear,
Paton 1971: p or w?

candidates:

*vora – pah- ‘to spear’

*vi, visi ‘wrap, bind’ -- pih ‘fasten’

*vaga – pyang ‘fire’

*vwa – pa ‘bear fruit’

*bava – pepa ‘carry child’

in non-initial position,
recent sound change

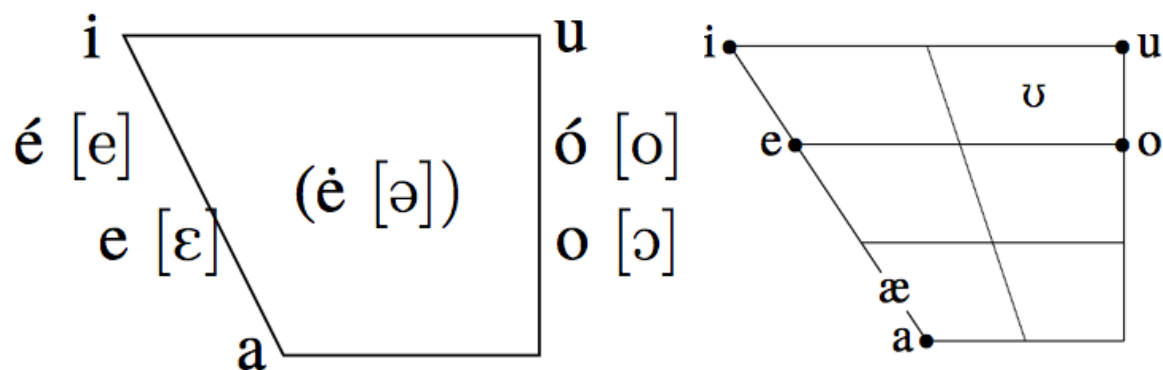
*tasi – teh ‘sea’

*leʔosi – lɛsɛ, lɛhɛ ‘look’

Daakie			
p	p ^w	t	k
^m b	b ^w	ⁿ d	ŋg
m	m ^w	n	ŋ
v		s	h
		r	
		l	
u		j	

Development from NC Vanuatu: Vowels

- ◆ Austronesian, Oceanic, NC Vanuatu:
standard five vowel system /i e a o u/
- ◆ Northern Vanuatu languages: larger systems
Alexandre, François. 2005. Unraveling the History of the Vowels of Seventeen Northern Vanuatu Languages. *Oceanic Linguistics* 44: 443-504.
- ◆ Ambrym languages: Diverse systems
 - Daakaka (von Prince 2012):
short / long vowels,
no rounded front vowels, [y] in three words only



- West Ambrym (Franjeh 2012): smaller system,
no length contrast
- Paton [1956] 1971 p.3 on /ø/: "The sound is rare in Lonwolwol
but common in Port Vato and adjacent districts".
Paton also mentions ü /y/ without further comment.

VOWEL INVENTORY

i e a ə ɔ ʊ

i e ɛ a ə ɔ ʊ

+ iē iē iā ō ō

i e ɛ æ a ɔ ʊ

i e ɛ a ə ɔ u + iē

i i ɛ a ɔ u

i i ɛ a ɔ u

i i ɛ a ɔ æ ø ɔ u

i i ɛ a ɔ u

i i ɛ a ə ø ü ɔ u + iā

i i ɛ a ɔ u

i e a o u

i i ɛ a ɔ u

i i ɛ a ɔ u + a:

i i ɛ a ɔ u + ēā

i i ɛ a ɔ u +

i: ɪ: ɛ: a: ɔ: ʊ: u:

i i ɛ æ a ɔ u +

i: ɪ: ɛ: æ: a: ɔ: ʊ: u:

i i ɛ a ɔ ʊ ɔ u + ēā ɔə ūə

Daakie Consonants: Voiced Stops



Table 2 Minimal pairs for voiceless and voiced stops

Minimal pair	Example 1	Example 2
/p/ vs. /b/	[pa] 'to be in flower' [pih] 'fastened' [peh] 'fish sp.' [-pjen] 'to shoot'	[ba] 'liana sp.' [bih] 'man that follows women' [beh] 'bald-headed' [bjen] 'because'
/p ^w / vs. /b ^w /	[p ^w ɛɲeh] 'to hurt' [p ^w ih] 'to be full' [p ^w ili] 'to bake'	[b ^w ɛɲeh] 'coconut branch' [b ^w ih] 'to pass under' [bwili] 'to fold'
/t/ vs. /d/	[tisi] 'to write' [towe] 'belly of s.th./s.o.'	[disi] 'to withdraw' [dowe] 'juice of s.th.'
/k/ vs. /g/	[kahe] 'to wash' [kolø] 'to be fat'	[gahe] 'to pull out' [golø] 'dry, barren'

/p/ and /p^w/ well established, even though not reconstructed for NC Vanuatu

Daakie consonants: Labiovelars



Table 4 Minimal pairs for stops and their labiovelar counterparts

/p/ vs. /p ^w /	[petpet] ‘to fasten’ [pih] ‘to be tied’	[p ^w et] ‘to stay’ [p ^w ih] ‘to be full’
/b/ vs. /b ^w /	[be] ‘where’ [bih] ‘man following women’ [bi:] ‘together’ [bili] ‘time, when’ [biri] ‘head of’	[bwe] ‘cover’ [b ^w ih] ‘to pass under’ [b ^w i:] ‘to fold, butterfly’ [b ^w ili] ‘to bent, fold’ [b ^w iri] ‘stem of’
/m/ vs /m ^w /	[me:] ‘dragonplum’ [mere] ‘core of’ [met] ‘to die’ [mihmih] ‘to be wet’	[m ^w e:] ‘namele palm’ [m ^w ere] ‘break’ [m ^w et] ‘to be short’ [m ^w ih] ‘to be dirty’

- can be reconstructed for North-Central Vanuatu and before
- labiovelars only preceding high front vowels /i/ or /e/
- few cases of /p^w/

Daakie consonants: Voiced stops / nasals



Table 3 Minimal pairs for voiced stops and nasals

/b/ vs. /m/	[bæt] 'bed' [bon] 'smell'	[mæt] 'stupid', 'eye' [mon] 'also'
/b ^w / vs. /m ^w /	[b ^w ih] 'to pass under' [b ^w i:] 'butterfly'	[m ^w ih] 'to be dirty' [m ^w i:] 'left side'
/d/ vs /n/	[diri] 'other half of s.th.' [døn] 'to drown'	[niri] 'child, of animal' [nøn] 'to be surprised, shocked'
/g/ vs. /ŋ/	[gahe] 'pull out' [giri] 'to skin'	[ŋahe] 'to chew' [ŋiri] 'to clench one's teeth'

Consonants: Fricatives, tap, laterals



Table 5 Alveolar fricative, tap, and lateral

/s/ vs. /h/	[kase] ‘due to, because of’ [base:] ‘bird’	[kahe] ‘to wash’ [bahe:] ‘penis’
/s/ vs. /r/	[mese] ‘to be sick’ [sok] ‘my’	[mere] ‘eye of s.o.’ [rok] ‘far away’
/r/ vs. /l/	[gili] ‘to carve’ [ru:] ‘to move’	[giri] ‘to skin’ [lu:] ‘swamp hen’

Frequent change /s/ → /h/
in medial and final position

- Daakaka *lese*,
Daakie *lese* or *lehe* ‘see’
- Daakaka *tes*
Daakie *teh* ‘sea’
- very few minimal pairs
/s/ vs. /h/

Table 6 The status of /h/ in the coda

/CVh/ vs. /CV/	[lah] ‘to steal’ [uhtahe] ‘to ask back’	[la] ‘there’ [utahe] ‘to take again’
/-Vh/ vs. /-Vk/	[pjak] ‘to choose’ [ɔk] ‘my (edible)’	[pjah] ‘smell good’ [ɔh] ‘rain’
/-Vh/ vs. /V:/	[lah] ‘to steal’ [sih] ‘to swell (sea)’	[la:] ‘to be sore’ [si:] ‘to hunt’

- Empty onsets often realized
with [h], cf. *em* [hem] ‘house’

Consonants: labial fricatives



Table 7 Labial fricative vs. glide vs. empty onset

/v/ vs. /ʋ/	[væt] ‘wood borer insect’	[vat] ‘to tell’
	[vele] ‘land’	[vele] ‘on top’
	[vesa] ‘to decorate’	[vesa] ‘to pound’
	[vini] ‘to shoot’	[vini] ‘nest’
<hr/>		
/ʋɔ/ vs. /ɔ/	[ʋɔp] ‘fence’	[ɔp] ‘firewood’

Daakie *va-* corresponds to Daakaka *vja-*,
influence on realization of following vowel: *væ-*,
va- only in loan words: *Vanuatu*, *Vatu* (currency), *Port Vato*

Daakaka *pja-* corresponds Daakie *pja-*, cf. *pjaŋ* ‘fire’

Daakie Vowels



The vowels of Daakie and their orthographic representations

Short vowels			Long vowels	
i ⟨i⟩	[y] ⟨u⟩	u ⟨u⟩	i: ⟨ii⟩	u: ⟨uu⟩
e ⟨é⟩	[ø] ⟨ó⟩	o ⟨ó⟩	e: ⟨ée⟩	o: ⟨óó⟩
ε ⟨e⟩	[œ] ⟨o⟩	ɔ ⟨o⟩	ε: ⟨ee⟩	ɔ: ⟨oo⟩
⁽ⁱ⁾ æ ⟨á⟩	a ⟨a⟩		a: ⟨aa⟩	

- ◆ Rather complex system
- ◆ 4 height distinctions
contrast /e/ vs. /ε/ not well established
- ◆ Length distinction: short vowels, long vowels
- ◆ Vowel /æ/ originating from /ja/ after labials
 - cf. Daakaka *vjan* Daakie *væn* ‘go’
 - blocked before velars, cf. *pjaŋ* ‘fire’
- ◆ Back short vowels: fronted allophones: /u, o, ɔ/ → [y, ø, œ]

Daakie Vowels: Length



Table 9 Vowel length distinction

/i/ vs. /i:/	[si] 'juice of' [visi] 'to squeeze'	[si:] 'to hunt', 'to itch' [visi:] 'to ask'
/e/ vs. /e:/	[le] distal demonstrative [te:te:] 'to look out'	[le:] 'to be broken' [te:ta:] 'tight'
/ɛ/ vs. /ɛ:/	[mɛɛ] 'eye of'	[mɛɛ:] 'rooster's tail'
/a/ vs. /a:/	[ba] 'to plant' [da] 'blood'	[ba:] 'to fight' [da:] 'to talk'
/ɔ/ vs. /ɔ:/	[kɔ] 'to look out for' [tœ] 'behind'	[kɔ:kɔ] 'water yams' [tɔ:] 'garden'
/o/ vs. /o:/	[soŋo] 'to hold' [sø] 'to catch'	[soŋo:] 'together' [so:] 'be pregnant'
/u/ vs. /u:/	[kuku] 'to carry' [tyty] 'to knead'	[ku:ku:] 'move' (redupl.) [tu:tu:] 'mother-in-law'

Notice vowel quality change with /ɔ, o, u/

Daakie Vowels: Height



Table 10 Vowel height distinctions, front vowels

/i:/ vs. /e:/	[li:] ‘owl’, ‘cry’, ‘tree’ [si:] ‘scratch’	[le:] ‘to break’ [se:] ‘to blow’
/i/ vs. /e/	[si] ‘juice of’ [li] ‘tree of’	[se] ‘lukim of’ [le] ‘to take, to marry’
/e:/ vs. /ɛ:/	[se:] ‘to blow’ [te:te:] ‘look out after’	[sɛ:] ‘to move’ [tɛ:tɛ:] ‘pig’
/e/ vs. /ɛ/	[le] ‘to take’, ‘to marry’ [eh] ‘blue’	[lɛ] ‘to let go, to wield’ [ɛh] ‘black ant’
/a/ vs. /æ/	[mat] ‘our’ (incl.) [pan] ‘to branch’	[mæt] ‘eye’ [pæn] ‘under’
/e/ vs. /æ/	[met] ‘to die’	[mæt] ‘eye’

Daakie Vowels



Table 11 Vowel height distinctions, back vowels

/u:/ vs. /o:/	[u:] ‘mountain’ [ku:ku:] ‘move’ (redup.)	[o:] ‘coconut’ [ko:ko:] ‘to shut’
/u/ vs. /o/	[up] ‘crab sp.’ [dy] ‘to stay’ [ly] ‘to hide’ [sy] ‘to stick, to comb’ [ty] ‘to beat’	[op] ‘to yearn for’ [dø] ‘lichi’ [lø] ‘leaf of’ [sø] ‘to catch’ [tø] ‘chicken’
/o:/ vs. /ɔ:/	[so:] ‘be pregnant’ [to:] ‘reeds’	[sɔ:] ‘a, one’ [tɔ:] ‘garden’
/o/ vs. /ɔ/	[op] ‘to yearn for’ [lø] ‘leaf of’ [sø] ‘to catch’ [tø] ‘chicken’	[ɔp] ‘firewood’ [lœ] ‘foot, footprint’ [sœ] ‘reef’ [tœ] ‘behind, second’

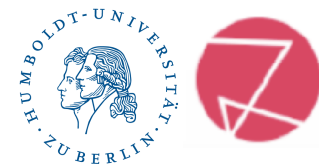
Vowel fronting: Triggering contexts



Table 12 Fronting of short back vowels

After alveolar consonants	<p>[ty] ‘to beat’, [tø] ‘chicken’, [tœ] ‘behind’</p> <p>[dy] ‘to stay’, [dølə] ‘voice of’, [dœ] ‘slow’</p> <p>[nyny] ‘to fold’, [nø] ‘face of’</p> <p>[sy] ‘to remove with stick’, [sø] ‘to hit’, [sœ] ‘reef’</p> <p>[ly] ‘to hide’, [lø] ‘to vomit’, ‘two’, [lœ] ‘foot, footprint’</p> <p>[mury] ‘short’, [sørø] ‘to talk’, [sœrcæn] ‘far’, [vørøt] ‘spittle’</p>
After labial consonants	<p>[pø], [pøpø] ‘white’, [pøpœ] ‘to carry’, but [punɛ] ‘to narrate’</p> <p>no shift after /b/: [buly] ‘hole’, [bo] ‘stink’, [bɔ] ‘big’</p> <p>[møt] ‘straight’, [møne] ‘forehead’, but [mo] ‘in front’, [mury] ‘short’</p> <p>[vy] ‘introduced’, [vøt] ‘stone’, [vøløn] ‘his hair’, but [von] ‘quiet’</p>
After glides /j/, /v/	<p>[jø] ‘knife’, [jøvø] ‘turtle’</p> <p>[vø] ‘ray’, [vœ] ‘heap of’, [vœrcælø] ‘two’, but [vuuvœ] ‘bredfruit’</p>
Diphthong /uo/	[buœ] ‘boar’, [kuœ] ‘to run’, [ɲunuœ] ‘yellow’, [vuø] ‘good’
After velars	no shift: [kuly] ‘dog’, [kølø] ‘fat’, [gølø] ‘dry’, [ɲørœ] ‘eat’
no onsets	no shift: [ut] ‘louse’, [un] ‘burnt’, [ot] ‘place’, [ose] ‘enough’

Vowel fronting: Restrictions



◆ Vowel fronting stopped by non-alveolar coda

non-alveolar	[loh] ‘to move’, [ton] ‘to light fire’, [lop] ‘clear’
codas	[luh] ‘swamphen’ [luk] ‘grow sideways’, [sup] ‘shell’
morphological	[løn], [lõt] ‘his/her, our heart’, but [lok], [lom] ‘my, your heart’
paradigms	[nøn], [nõt] ‘his/her, our face’ but [nok], [nom] ‘my, your face’
	[søn] ‘he/she and’ but [sok], [som] ‘I and’, ‘you and’

◆ Effect of following syllable:

- [tuluh] ‘slippery’, non-fronting effect of -h spreads to beginning of word, possibly assimilation from [teluh]

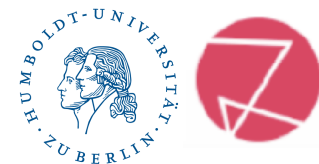
◆ Special cases:

- [lœ'nõt] ‘in the bush’ from [lœn ɔt] ‘in terrestrial place’, analyzed as word
- [du'ut] ‘nature, bush’, possibly from [dy ɔt] ‘stay in terrestrial place’
- [tɔ'ot], ‘man of bush’, possibly from [te ɔt], ‘man of terrestrial place’
- [so'a:] ‘emerge’, not [sø'a:]

◆ Vowel of modal marker (assimilation) is not fronted

[to lø] ‘he/she vomited (distal)’, [nu ly] ‘he/she (not) dives (dep. negation)’

Why vowel fronting?



- ◆ Effect of alveolar (coronal) consonants on vowels is well known:
 - Flemming, Edward. 2003. The relationship between coronal place and vowel backness. *Phonology* 20: 335-373.
 - Example: Cantonese: /u, o/ do not occur in between coronals, only /y, ø/

i	y	u	· k ^h yt	‘decide’	k ^h ut	‘bracket’
e	ø	o	hø	‘boots’ ho	‘river’	
a,a:			· t ^h yt	‘to take off’	*t ^h ut	t ^h uk ‘bald head’
			t ^h øn	‘a shield’	*t ^h on	t ^h ok ‘to carry (on shoulders)’

- ◆ Effect of alveolar consonants on tongue dorsum, resulting in fronting as a result of coarticulation
- ◆ Experimental evidence
 - Harrington, Jonathan et al. 2011. The physiological, acoustic, and perceptual basis of high back vowel fronting: Evidence from German tense and lax vowels. *Journal of Phonetics* 39: 121-131
 - Harrington, Jonathan. 2012. The coarticulatory basis of diachronic high back vowel fronting. In: Solé, M.-J. & D. Recasens, (eds), *The initiation of sound change. Perception, production and social factors*. 103-122.

Why vowel fronting?

- ◆ Ongoing sound changes in British and Australian English:
Younger speakers: tongue dorsum at /u, ʊ/ closer to /i, ɪ/

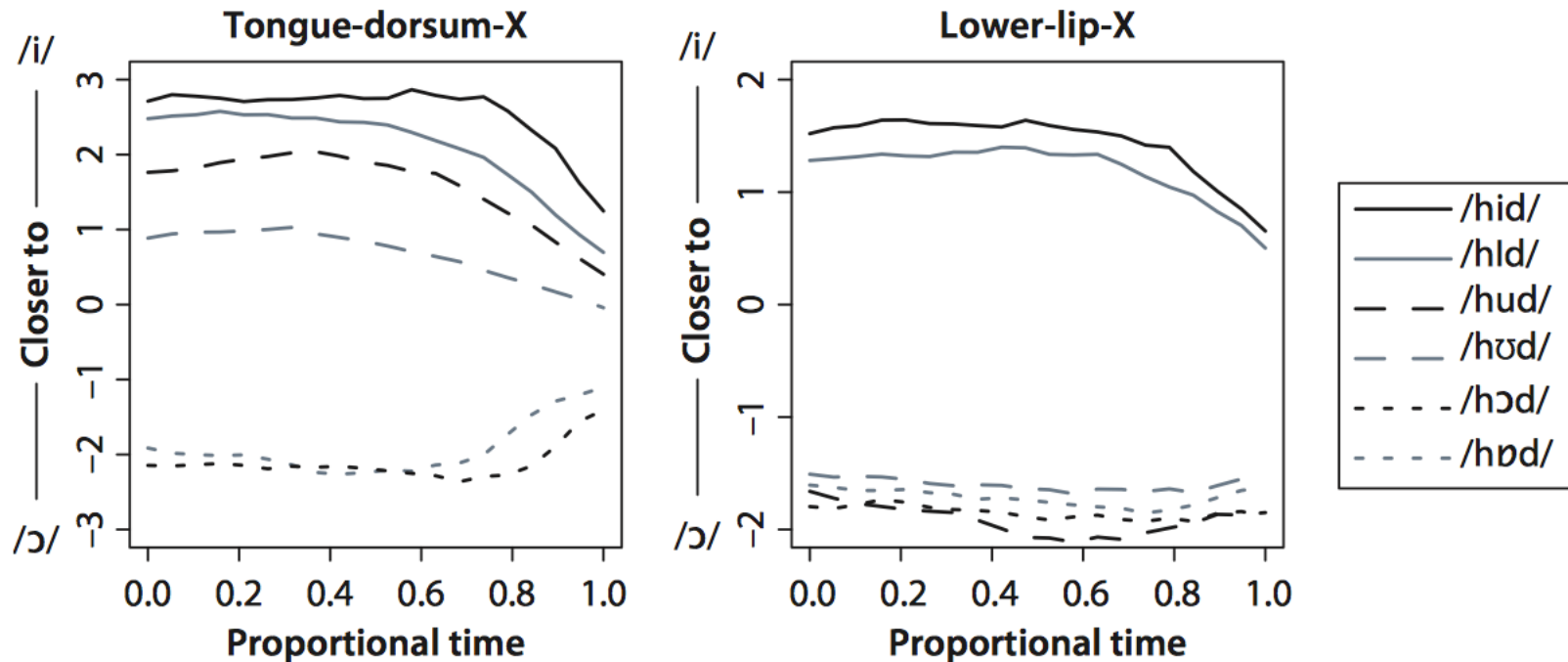


Figure 4. Linearly time-normalized trajectories of the horizontal movement of the tongue dorsum (left) and of the lower-lip (right) averaged across 10 tokens per category each produced by five young female SSB speakers in five /hVd/ words

- ◆ In Daakie:
 - Triggered by preceding coronal consonant
 - Applies to /ɔ/ and /o/ similar as to /u/

Why vowel fronting?



Another effect of vowel fronting in Daakie:

- ◆ Length distinction: Short / Long
- ◆ No perceptible effect of vowel fronting on long vowels
 - Only evidence of long /y:/: Realization of /mju:len/ ‘life’ as /my:len/
- ◆ Fronting of /u o ɔ/ to /y ø œ/ for short vowels only creates an additional spectral difference for long / short distinction in the frequent contexts where vowel fronting happens
 - Note: There are six alveolar consonants, plus /u/, that trigger fronting.
- ◆ This might be a reason why fronting affects /u o ɔ/ uniformly, and not just /u/, or /u o/

And yet another effect (“fashion” – social reasons):

- ◆ Speak different from your neighbours!
- ◆ Cf. sound change /s/ → /h/:
general preference for /h/ forms as citation forms in the lexicon
- ◆ No sound change without language contact?
We should also reckon with “let’s be different!” as a change

Vowel fronting as preference



A Preference-theoretic approach?

◆ Preference theory

- Vennemann, Theo (1993). Language change as language improvement. In *Historical Linguistics: Problems and Perspectives*, Ch. Jones (ed.), 319-344. London: Longman.
- Sound change as (local) improvement

◆ Preference motivation of back vowel fronting in Daakie

- Coarticulatory simplification of production of back vowels by assimilation of tongue dorsum position to preceding vowel
- Blocked by following velar consonants, which have retracting effect on dorsum
- Especially for short vowels – simplification of short tongue movement, long vowels allow tongue more time to reach target position
- Leading to a spectral difference of long and short vowels after the very frequent alveolar consonants and after /u/

◆ Disadvantage:

- Realization of typologically rare sounds /y ø œ/, rare also in the languages of North Central Vanuatu.

Vowel fronting in Daakie



Research question:

- ◆ Differences in the age of speakers?
But probably not a very recent sound change, different from /s/ → /h/
- ◆ Differences in the region?
Contact area Daakaka – Daakie, e.g. village of Saanesup
- ◆ Differences in linguistic contexts?
Same effect of all triggering alveolar consonants, /p/ and /t/?
Same effect on all vowels /u, o, ɔ/?
Same effect in rapid / slow speech?
- ◆ Research alert:
High quality recording (ca. 90 min) of read speech by one speaker!

In case you are interested: Syllable structures

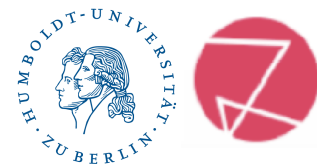


Table 14 Syllable structures; C_i excludes /h/, C_f: /p, t, k, m, n, ŋ, h/; J: /j/

/V/	[a] ‘my’, [a'rɛ] ‘to bite’, [ɛtɐp] ‘post’, [i'li] ‘to dig’, [u'ta'hɛ] ‘take again’
/V:/	[a:] ‘nettle’, ‘their’, [l:'ɔ] ‘casuarine tree’, [o:] ‘coconut’, [u:] ‘hill’, ‘blow’
/C _i V/	[da] ‘blood’, [jœ] ‘knife’, [ka] ‘to fly’, [ŋa] ‘now’, [tɛ] ‘cut’, [vɛ] ‘water’
/C _i V:/	[da:] ‘word’, [ja:] ‘sun’, [la:] ‘sore’, [te:] ‘look’, [a'ro:'vɔ] ‘basket’
/VC _f /	[ap] ‘crab sp.’, [ɛt] ‘we’, [ɔk] ‘my’, [ɛh] ‘blue’, [am] ‘your’, [un] ‘burnt’
/C _i V/	[lok] ‘laplap’, [ŋap] ‘arrow’, [p ^w et] ‘stay’, [vip] ‘pigeon’, [yah] ‘strong’
/C _i JV/	[bjɛ] ‘shark’, [kjɛ] ‘to call’, [ŋjɛ] ‘he’, [sja] ‘fast’, [tjɛ'nɛm] ‘home’,
/C _i JV:/	[mju:] ‘grow’, [tje:] ‘grasshopper’, [vja:] ‘hand’, [ŋje:] ‘they’, [sja:] ‘sleep’
/C _i JVC _f /	[djuŋ] ‘mat’, [gjeɥ] ‘work’, [kjen] ‘sharp’, [pjaŋ] ‘fire’, [vjɛt] ‘four’,