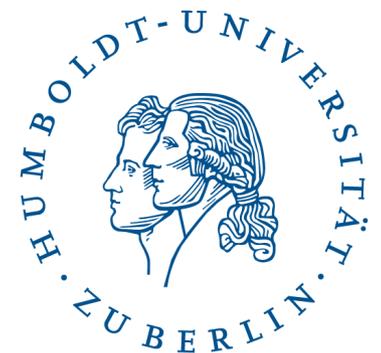




Vowel Fronting in Daakie (Ambrym, Vanuatu)

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

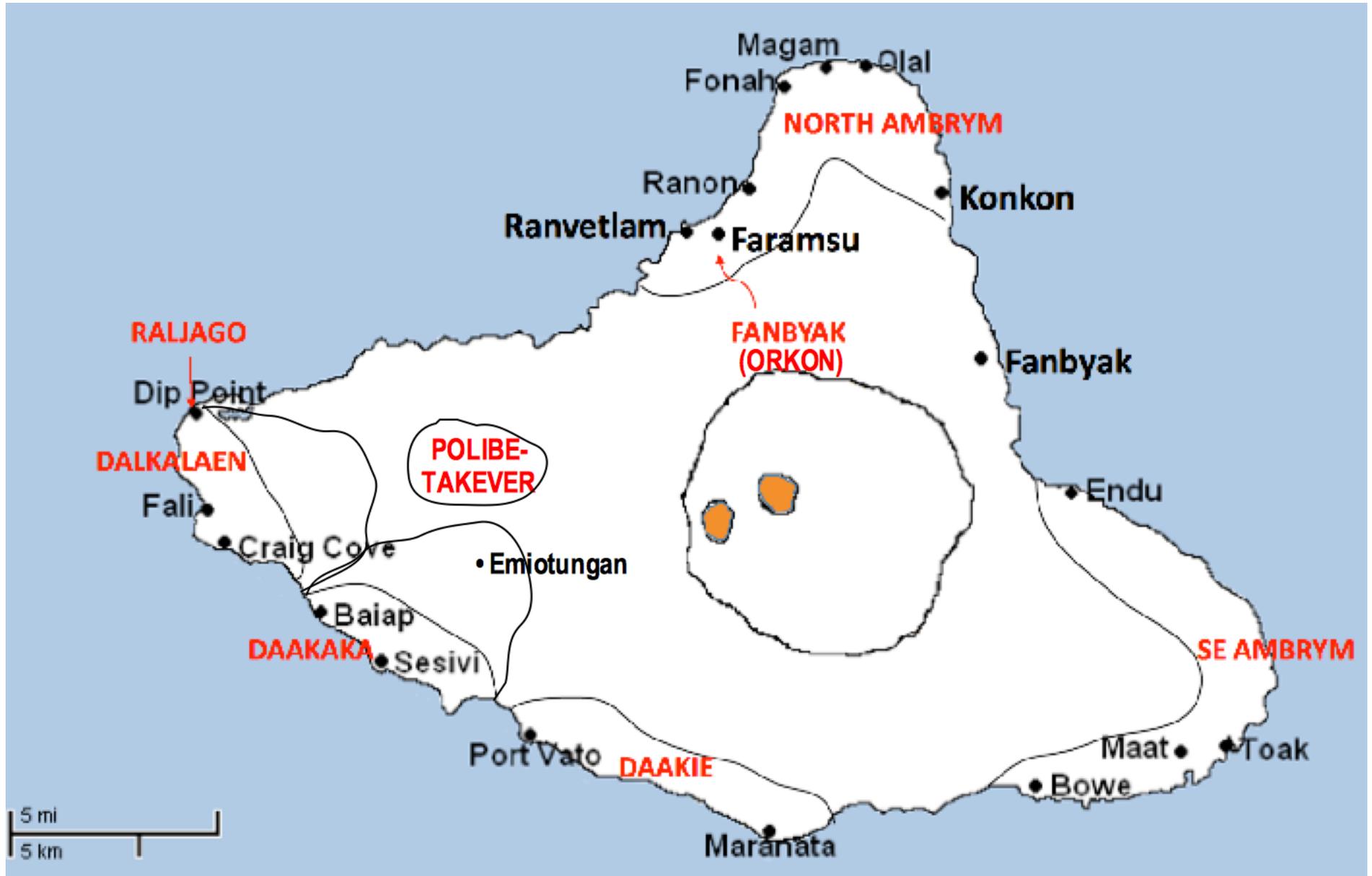
- ◆ audiovisual corpora (> 15h), general grammatical description
- ◆ materials for local use (orthography, dictionary, collection of stories, books)
- ◆ special focus on syntax, semantics, pragmatics

Ambrym, Vanuatu



Languages of Ambrym

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



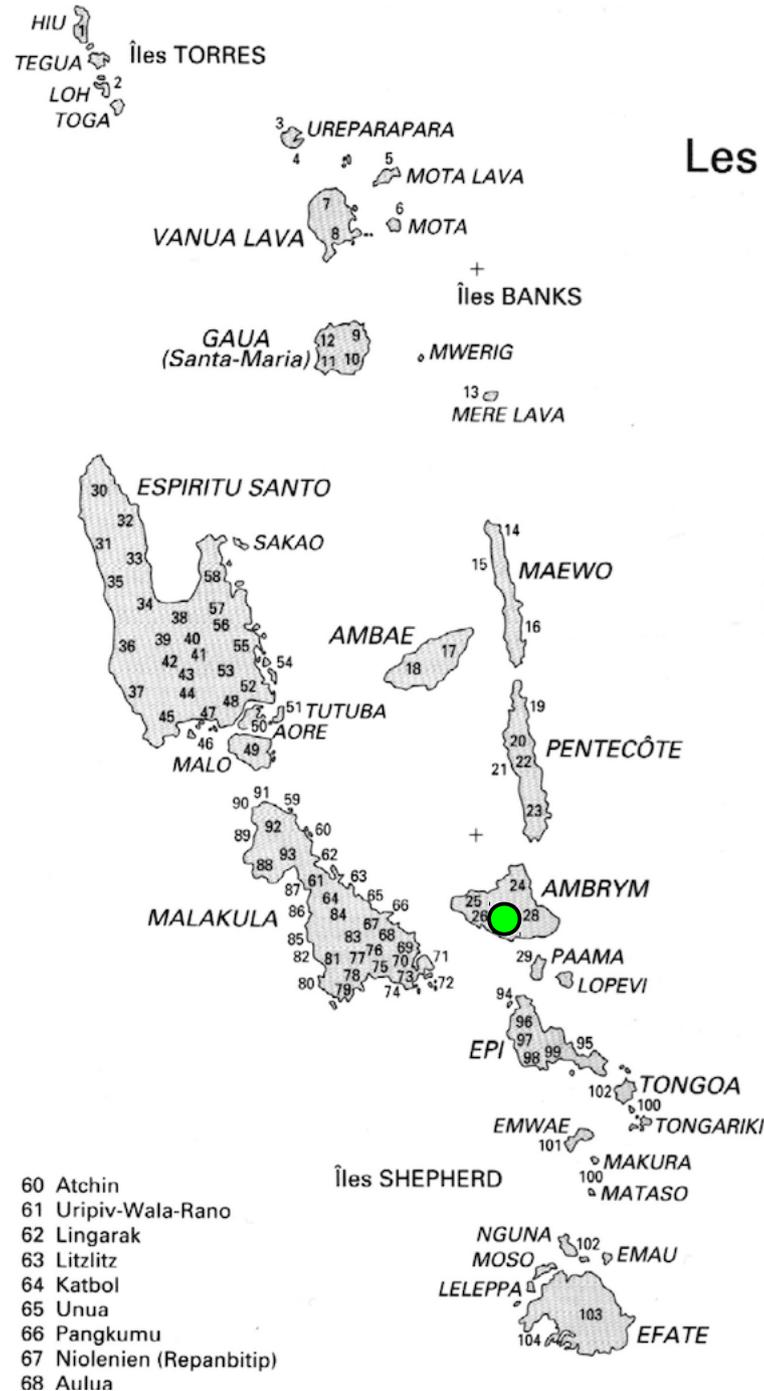
Classification

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?



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 Tambotolo |
| | 53 Polonombauk |
| | 54 Mafea |
| | 55 Shark Bay |
| | 56 Butmas-Tur |
| | 57 Lorediakarkar |
| | 58 Sakao |



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: <éé>	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		Daakie							
t	k	?	p	p ^w	t	k			
^m b	b ^w	ⁿ d	ŋ	g	^m b	b ^w	ⁿ d	ŋ	g
m	m ^w	n	ŋ		m	m ^w	n	ŋ	
v	v ^w	s			v		s		h
	r	R					r		
	l						l		
	u	j					u		j

early loss

unclear,
Paton 1971: p or w?

candidates:

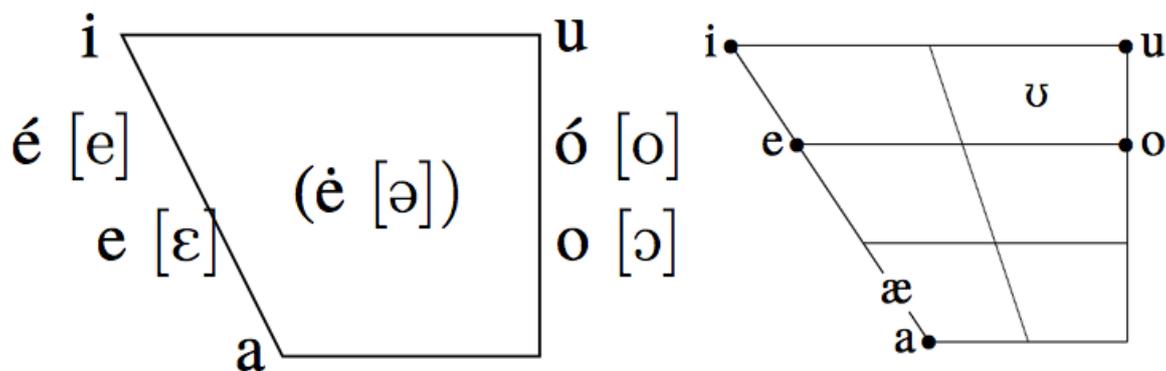
- *vora – pah- ‘to spear’
- *vi, visi ‘wrap, bind’ -- pih ‘fasten’
- *vaga – pyang ‘fire’
- *vwa – pa ‘bear fruit’
- *bava – pepa ‘carry child’

in non-initial position,
recent sound change

- *tasi – teh ‘sea’
- *leʔosi – lɛsɛ, lɛhɛ ‘look’

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 ɒ
i e ɛ a ə ɔ ɒ
+ iē iē iā oē oē
i e ɛ æ a ɔ o u
i e ɛ a ə ɔ o u + iē
i ɪ ɛ a ɔ ʊ u
i ɪ ɛ a ɔ ʊ u
i ɪ ɛ a ɒ æ ø ɔ ʊ u
i ɪ ɛ a ɔ ʊ u
i ɪ ɛ a ə ø ü ɔ ʊ + iā
i ɪ ɛ a ɔ ʊ u
i e a o u
i ɪ ɛ a ɔ ʊ u
i ɪ ɛ a ɔ ʊ u + a:
i ɪ ɛ a ɔ ʊ u + ēā
i ɪ ɛ a ɔ ʊ u +
i: ɪ: ɛ: a: ɔ: ʊ: u:
i ɪ ɛ æ a ɔ ʊ u +
i: ɪ: ɛ: æ: a: ɔ: ʊ: u:
i ɪ ɛ a ɒ ɒ ɒ ɔ ʊ + ēā oē ūō

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 eŋeh] ‘to hurt’ [p ^w ih] ‘to be full’ [p ^w ili] ‘to bake’	[b ^w eŋeh] ‘coconut branch’ [b ^w ih] ‘to pass under’ [bwili] ‘to fold’
/t/ vs. /d/	[tisi] ‘to write’ [towɛ] ‘belly of s.th./s.o.’	[disi] ‘to withdraw’ [dowɛ] ‘juice of s.th.’
/k/ vs. /g/	[kaɦɛ] ‘to wash’ [kolø] ‘to be fat’	[gaɦɛ] ‘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

<i>/p/ vs. /p^w/</i>	[petpet] ‘to fasten’ [pih] ‘to be tied’	[p ^w et] ‘to stay’ [p ^w ih] ‘to be full’
<i>/b/ vs. /b^w/</i>	[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’
<i>/m/ vs /m^w/</i>	[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/	[mæse] ‘to be sick’ [sok] ‘my’	[mære] ‘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/ <hr/>	[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/ <hr/>	[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. *pjanɲ* '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’ [tɔɛ] ‘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>/i:/ vs. /e:/</i>	[li:] ‘owl’, ‘cry’, ‘tree’ [si:] ‘scratch’	[le:] ‘to break’ [se:] ‘to blow’
<i>/i/ vs. /e/</i>	[si] ‘juice of’ [li] ‘tree of’	[se] ‘lukim of’ [le] ‘to take, to marry’
<i>/e:/ vs. /ɛ:/</i>	[se:] ‘to blow’ [te:te:] ‘look out after’	[sɛ:] ‘to move’ [tɛ:tɛ:] ‘pig’
<i>/e/ vs. /ɛ/</i>	[le] ‘to take’, ‘to marry’ [eh] ‘blue’	[lɛ] ‘to let go, to wield’ [ɛh] ‘black ant’
<i>/a/ vs. /æ/</i>	[mat] ‘our’ (incl.) [pan] ‘to branch’	[mæt] ‘eye’ [pæn] ‘under’
<i>/e/ vs. /æ/</i>	[met] ‘to die’	[mæt] ‘eye’

Daakie Vowels



Table 11 Vowel height distinctions, back vowels

<i>/u:/ vs. /o:/</i>	[u:] ‘mountain’ [ku:ku:] ‘move’ (redup.)	[o:] ‘coconut’ [ko:ko:] ‘to shut’
<i>/u/ vs. /o/</i>	[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’
<i>/o:/ vs. /ɔ:/</i>	[so:] ‘be pregnant’ [to:] ‘reeds’	[sɔ:] ‘a, one’ [tɔ:] ‘garden’
<i>/o/ vs. /ɔ/</i>	[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	[ty] ‘to beat’, [tø] ‘chicken’, [tœ] ‘behind’ [dy] ‘to stay’, [dølœ] ‘voice of’, [dœ] ‘slow’ [ny] ‘to fold’, [nø] ‘face of’ [sy] ‘to remove with stick’, [sø] ‘to hit’, [sœ] ‘reef’ [ly] ‘to hide’, [lø] ‘to vomit’, ‘two’, [lœ] ‘foot, footprint’ [mury] ‘short’, [sørø] ‘to talk’, [sœrcœn] ‘far’, [vørøt] ‘spittle’
After labial consonants	[pø], [pøpø] ‘white’, [pøpœ] ‘to carry’, but [punœ] ‘to narrate’ no shift after /b/: [buly] ‘hole’, [bo] ‘stink’, [bɔ] ‘big’ [møt] ‘straight’, [møne] ‘forehead’, but [mo] ‘in front’, [mury] ‘short’ [vy] ‘introduced’, [vøt] ‘stone’, [vøløn] ‘his hair’, but [von] ‘quiet’
After glides /j/, /v/	[jø] ‘knife’, [jøvø] ‘turtle’ [vø] ‘ray’, [vœ] ‘heap of’, [vœrcœlø] ‘two’, but [vuuvœ] ‘bredfruit’
Diphthong /uo/	[buœ] ‘boar’, [kuœ] ‘to run’, [ŋunjuœ] ‘yellow’, [vuø] ‘good’
After velars	no shift: [kuly] ‘dog’, [kølø] ‘fat’, [gølø] ‘dry’, [ŋørœ] ‘eat’
no onsets	no shift: [ut] ‘louse’, [un] ‘burnt’, [ot] ‘place’, [osœ] ‘enough’

Vowel fronting: Restrictions



- ◆ Vowel fronting stopped by non-alveolar coda

non-alveolar	[loh] ‘to move’, [toŋ] ‘to light fire’, [lop] ‘clear’
codas	[luh] ‘swamphen’ [luk] ‘grow sideways’, [sup] ‘shell’
morphological	[løn], [løt] ‘his/her, our heart’, but [lok], [lom] ‘my, your heart’
paradigms	[nøn], [nøt] ‘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'nøt] ‘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 yt̚	‘decide’	k ^h ut̚	‘bracket’	
e	ø	o	hø	‘boots’ ho	‘river’		
a,a:			. t̚ ^h yt̚	‘to take off’	*t̚ ^h ut̚	t̚ ^h ʊk	‘bald head’
			t̚ ^h øn̚	‘a shield’	*t̚ ^h on̚	t̚ ^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/

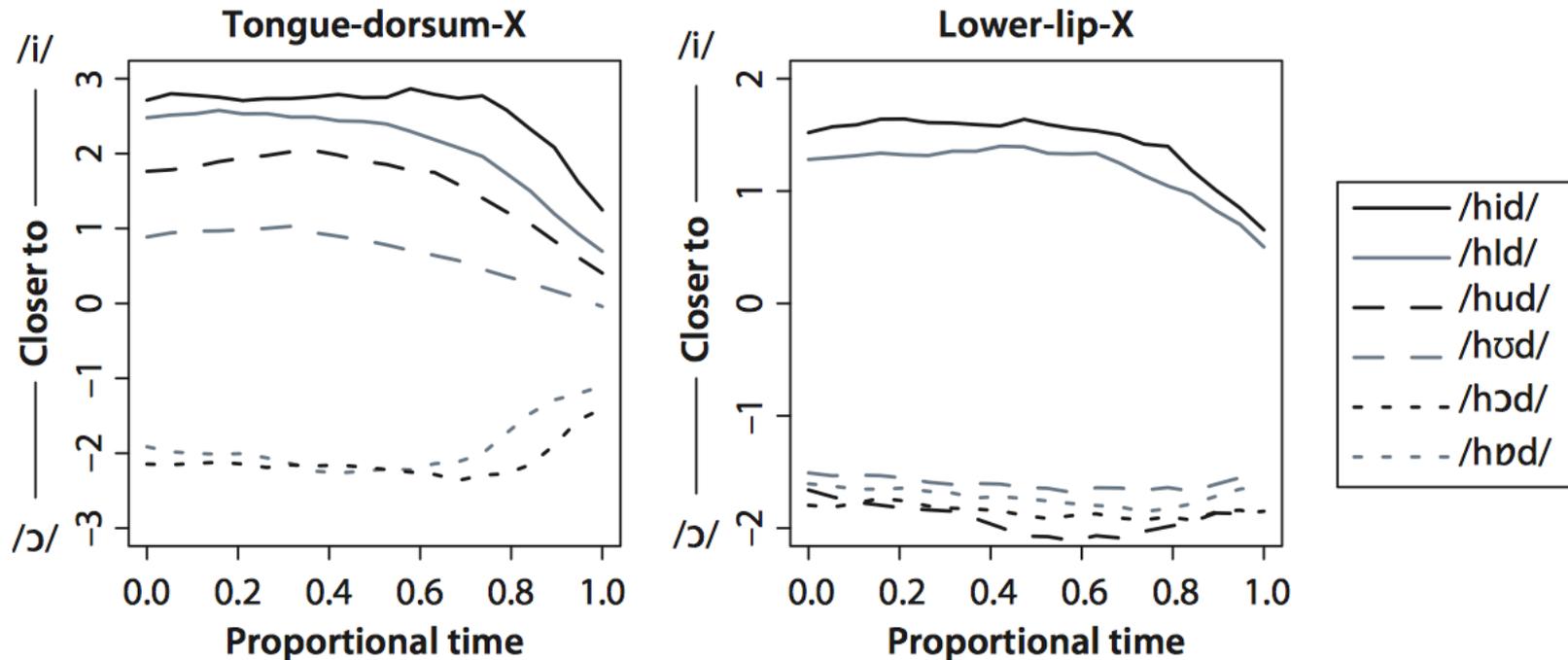


Figure 4. Linearly time-normalized trajectories of the horizontal movement of the tongue dorsum (left) and of the lower-lip (right) averaged across 10 tokens per category each produced by five young female SSB speakers in five /hVd/ words

- ◆ 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:'ʊo] ‘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’, [gjh] ‘work’, [kjen] ‘sharp’, [pjaŋ] ‘fire’, [vjɛt] ‘four’,