

Handout

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Friday, August 17, 18

- Not RGH /*R
- Record The session!



An Unlikely Retention

Hugh Paterson III
&
Kenneth S. Olson

Friday, August 17, 18

How I got involved, my lack of field experience.

Respect for Reid, Blust, Wolff, Zorc.

The (inter)dental Approximant



Kalinga - L
palatal lateral
labial flap



ᱚ

Friday, August 17, 18

Kenneth S. Olson, Jeff Mielke, Josephine Sanicas–Daguman, Carol Jean Pebley, Hugh Paterson
III

Our hypothesis is that phonetic detail in allophones is relevant to reconstruction of proto phonemes. When we abstract away from the articulation to the level of the phoneme and then reconstruct based on the phoneme we lose information relevant reconstruction.

Where does it fit?

PAn

- R-L-D-y of Van der Tuuk and Conant

R - Bikol

L - Tagalog [tag]

D - Malay

y - Bantoanon [bno], Romblomanon [rol]

Where does it fit?

Otto Scheerer (1920) Über einen Bemerkenswerte
L-Stellvertreter im Dialekt von Aklán auf der Insel
Panáy.

Shows that the Aklano “velarized segment”
is also a reflex of the R-L-D consonant.

Aklano Data

	English	Kagayanen	Aklano
	[eng]	[cgc]	[akl]
WORD INITIAL	earthworm	ḡa'ḡagu	ḡago
	wide, broad	'ḡapad / 'mḡapad	ḡāpad / ma-ḡāpad
WORD MEDIAL	rope	ka'ḡat	kaḡat
	palm of hand	'paḡad	pāḡad
	eight	'waḡḡu	waḡu
	path	'daḡan	dāḡan
	down, below, also under	da'ḡim	i-dāḡum
	house	'baḡaj	baḡay
WORD FINAL	thick	'dakmiḡ	dāmuḡ
	itch (v)	ka'tiḡ	katuḡ
	boast	'bugaḡ	pa-bugaḡ

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The Aklano segment is a little bit ambiguous in the literature.

Zorc says it is a velar fricative but revises this to say it is a semi-vowel. I suspect it is velar without frication.

Retention

Gallman (1983) - Innovation

Reid (1973) - Innovation

Payne (1978) - Retention

On the Periphery

Friday, August 17, 18

1.

On the Periphery

Lower Tanudan Kalinga [klm]

Butbut Kalinga [kyb]

Limos Kalinga [kmk]

Lubuagan Kalinga [knb]

Virac, Southern

Catanduanes Bicolano [bln]

Kagayanen [cgc]

Karaga Mandaya [mry]

Sangab Mandaya [myt]

Kalagan [kqe]



Markedness

Friday, August 17, 18

2.

It is typologically marked (rarity.)

Piraha, Wuvulu, and Central Hongshuihe Zhuang

It is articulatorily marked (difficulty)

interdentals are more marked in aqisition

It is socially marked.

Markedness

Typologically marked (rarity)

Friday, August 17, 18

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Markedness

Typologically marked (rarity)

Articulatorily Marked (difficulty)

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Piraha, Wuvulu, and Central Hongshuihe Zhuang

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interdentals are more marked in aqisition

It is socially marked.

Markedness

Typologically marked (rarity)

Articulatorily Marked (difficulty)

Socially marked (Unliked)

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It is typologically marked (rarity.)

Piraha, Wuvulu, and Central Hongshuihe Zhuang

It is articulatorily marked (difficulty)

interdentals are more marked in aqisition

It is socially marked.

Social Pressure as Motivation for Phonological Change

Friday, August 17, 18

Kalagan
Cebanu

Harmon 1977

Social Pressure as Motivation for Phonological Change

[kqe] The Shameful L Erika Arcenas (2004)

Friday, August 17, 18

Kalagan
Cebanu

Harmon 1977

Social Pressure as Motivation for Phonological Change

[kqe] The Shameful L Erika Arcenas (2004)

[myt] Sangab Mandaya Andy Gallman (1983)

Friday, August 17, 18

Kalagan
Cebanu

Harmon 1977

Social Pressure as Motivation for Phonological Change

[kqe] The Shameful L Erika Arcenas (2004)

[myt] Sangab Mandaya Andy Gallman (1983)

[cgc] Teased by
Tagalog speakers Carol Pebley (2009)

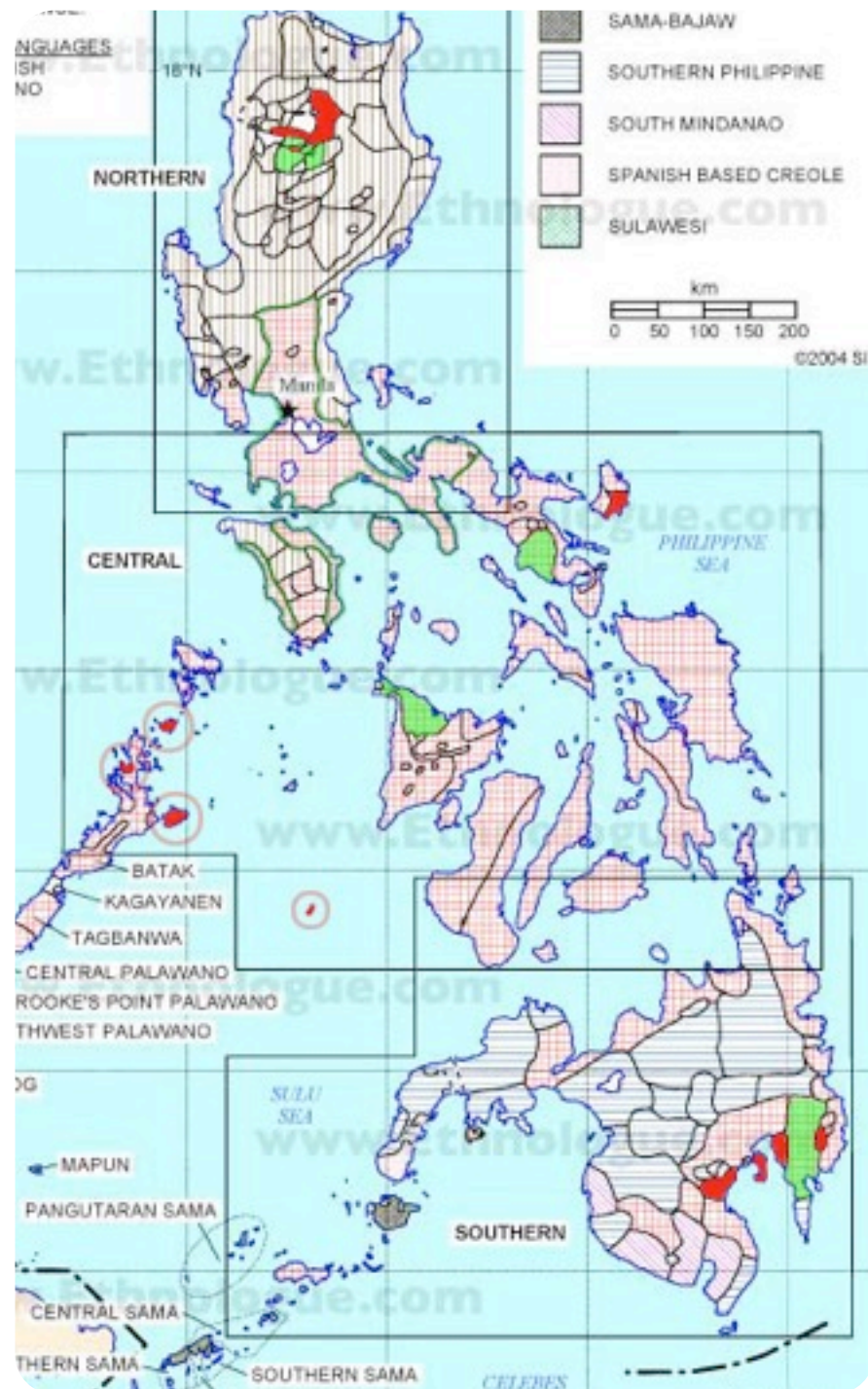
Friday, August 17, 18

Kalagan
Cebanu

Harmon 1977

Language Spread

Language Spread



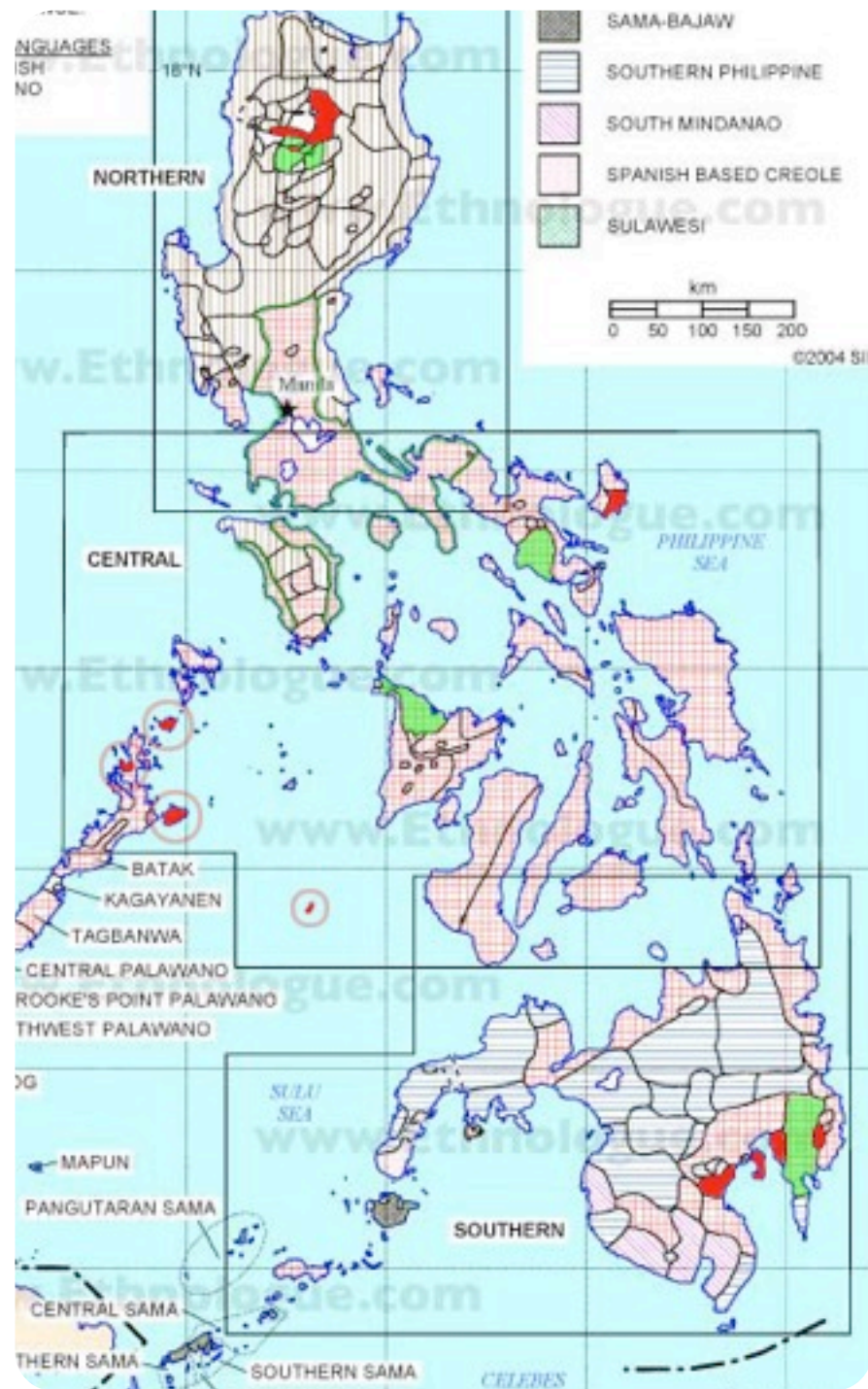
Language Spread

Language Spread



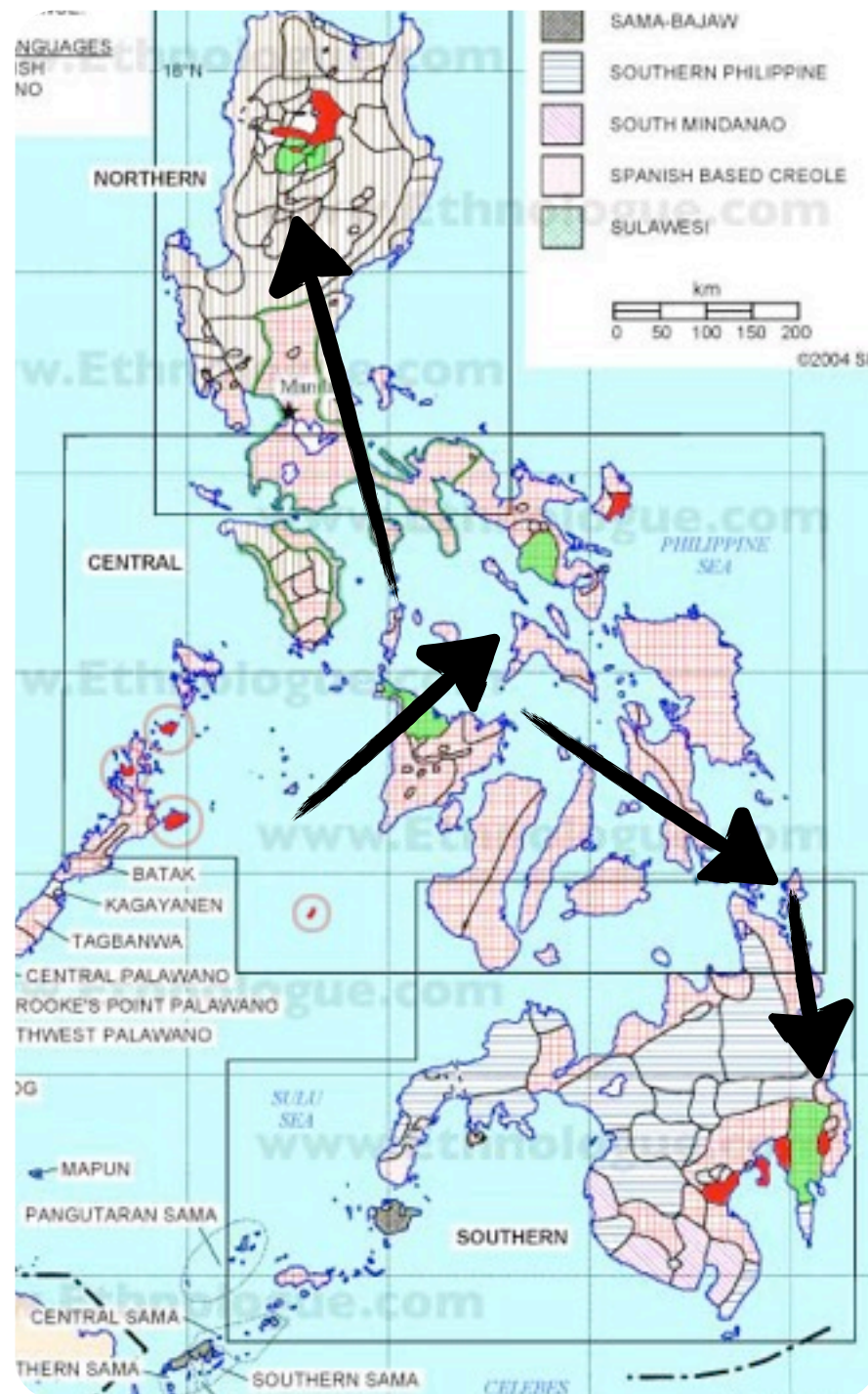
Language Spread

Language Spread



Language Spread

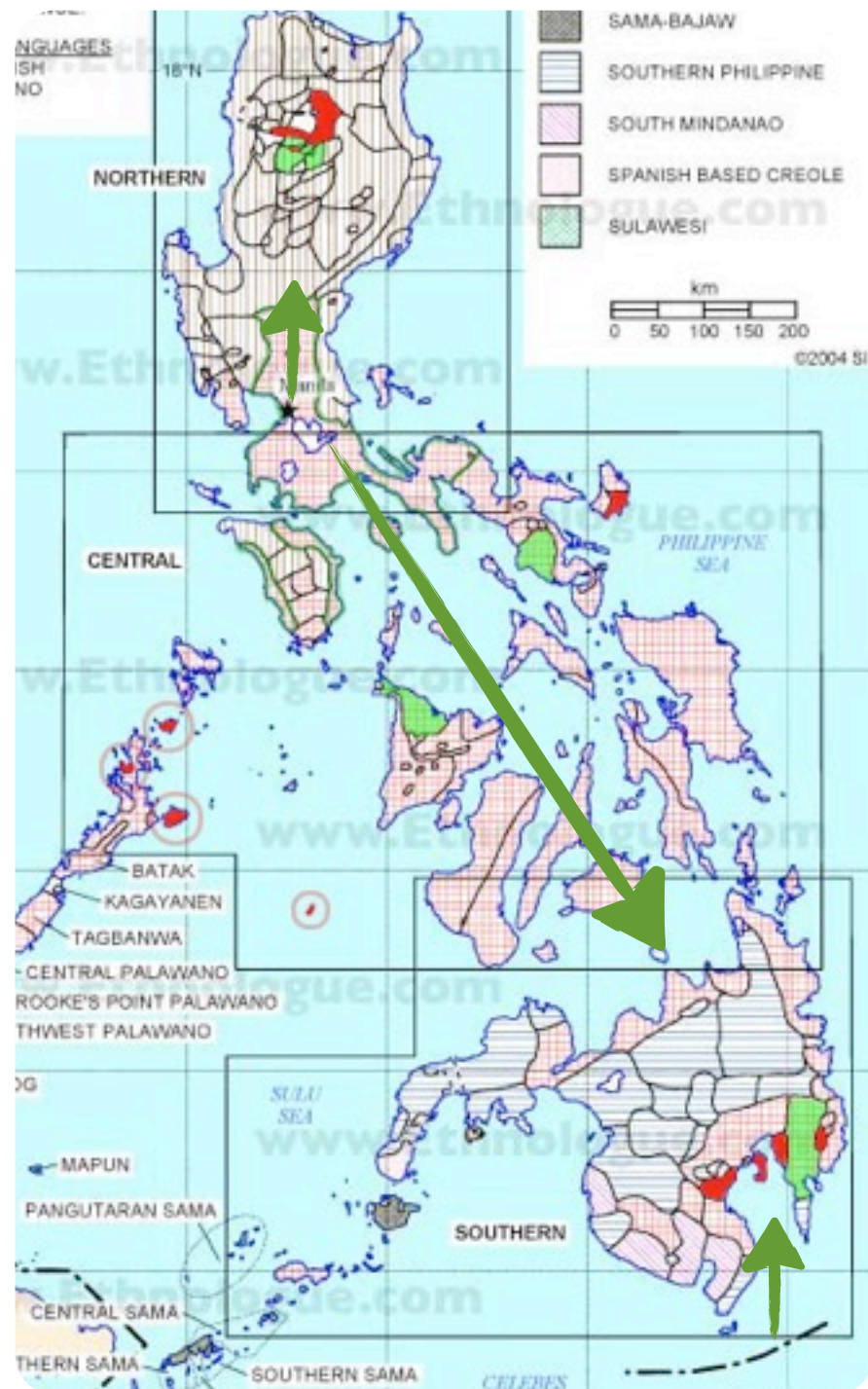
Language Spread



Language Spread

Language Spread

Culture Spread



Distribution with another approximant



Friday, August 17, 18

3.

Another Approximant

- a. voiced velar fricative [ɣ] and [ɣ̠]
- b. voiced retroflex approximant [ɻ]
- c. voiced retroflex lateral approximant [ɭ]
- d. Alternation with null

Put some illustratory data in? (bone)

Distribution with another approximant



The Interdental
Approximant

Friday, August 17, 18

3. Another Approximant

- a. voiced velar fricative [ɣ] and [ɣ̥]
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Distribution with another approximant



The Interdental
Approximant

Another Approximant

Friday, August 17, 18

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Put some illustratory data in? (bone)

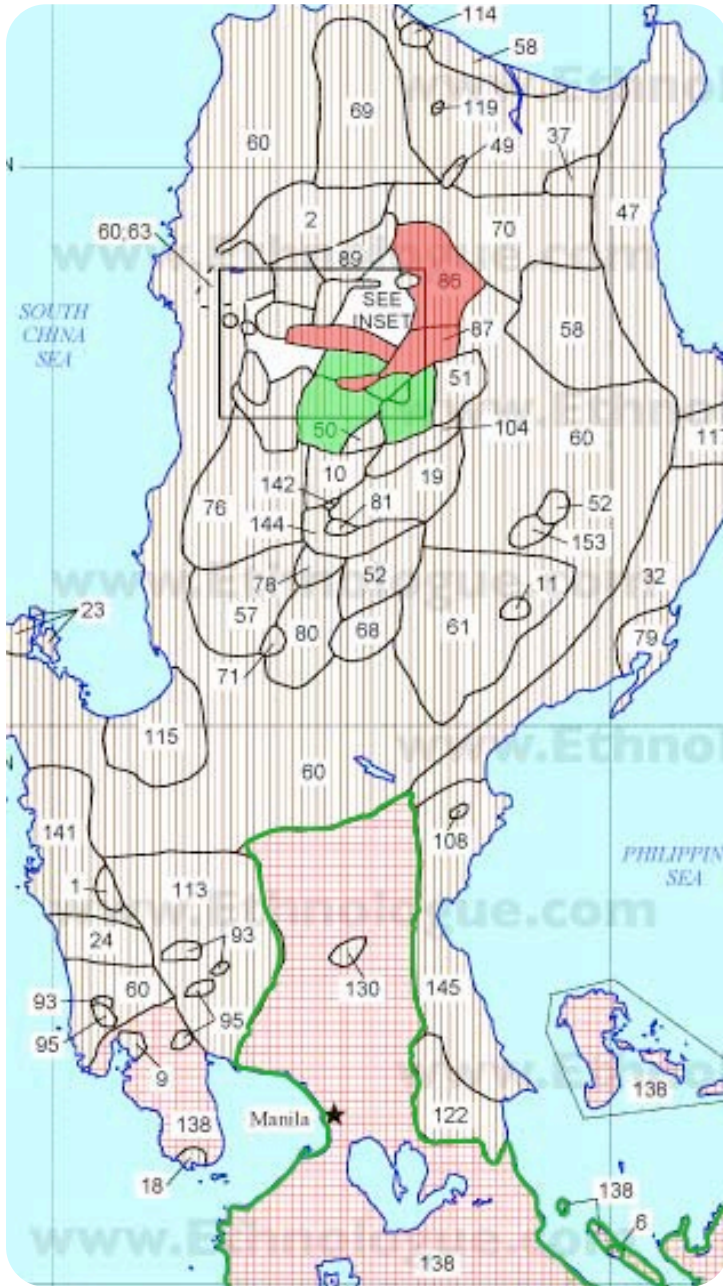
Update the Data
to what is in the
hand out.

Some Data

English	Bone	Head	Trail, Road	Moon	worm	seed
Butbut	tu'ŋə̌	h ^w a'ʔag	'tʃǎan	'h ^w ǔan	ʔo'̌an	h ^w u'ʔǒ
Lubuagen	tun-ʔě	'ʔǔu	'kěsa	'bǔan	ku'̌an	βǔkě
Majukayong	'tunʔǎ	'ʔǔu	'qǎsa	so'̌ag	'qǒan	'vuqǎ
Minangali	tungʔǎ	ʔǔu	ʔǎsa	sǒag	batǒ	buʔǒ

Different Philippine subgroups

Northern Distribution



[kmk]

[kml]

[knb]

[kyb]

Limos Kalinga
Minangali
Lubuagen
Butbut



[bnc]

[kmd]

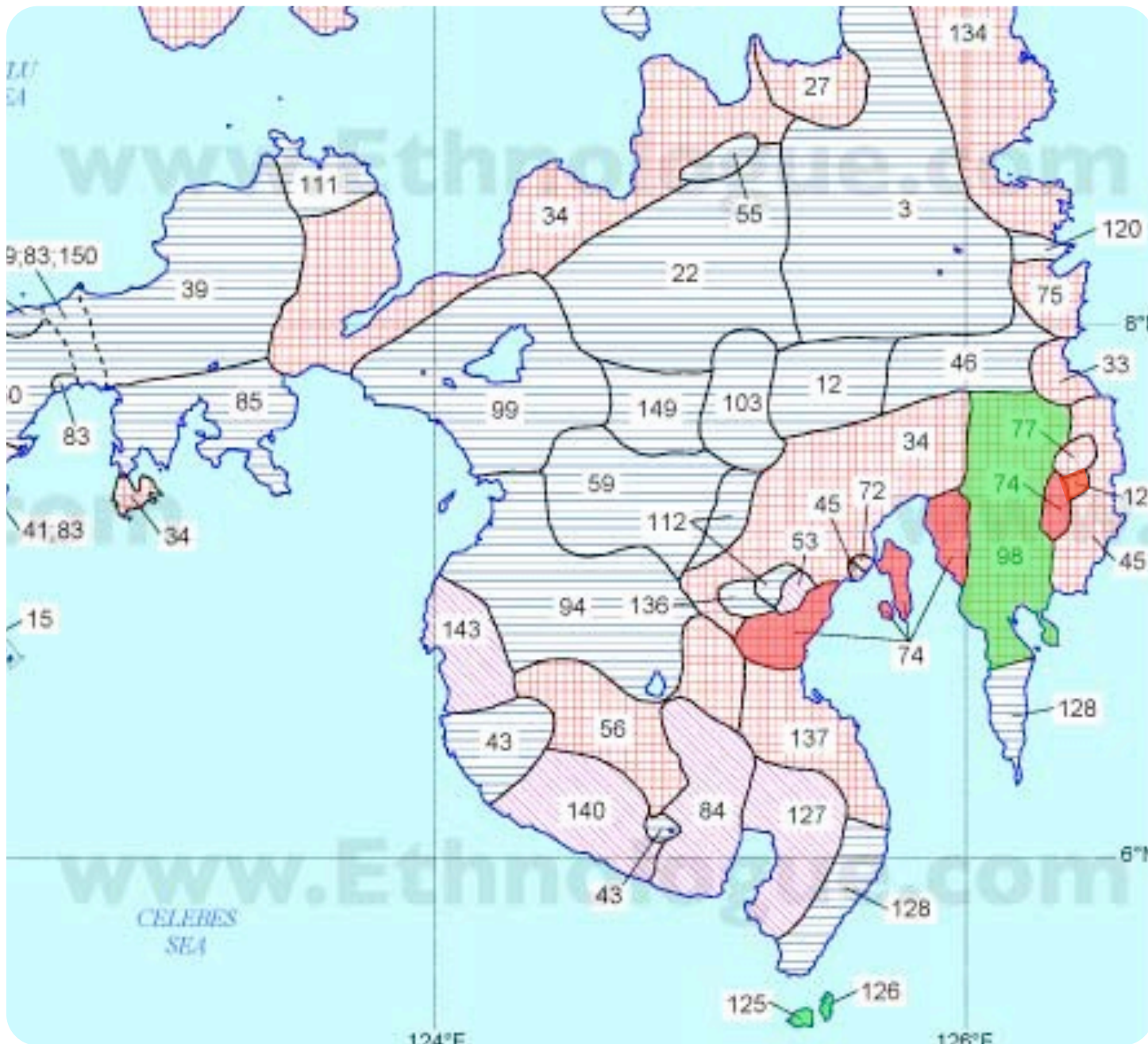
[kgh]

[ksc]

[blw]

Central Bontoc
Majukayong
Upper Tanudan Kalinga
Southern Kalinga
Balangao

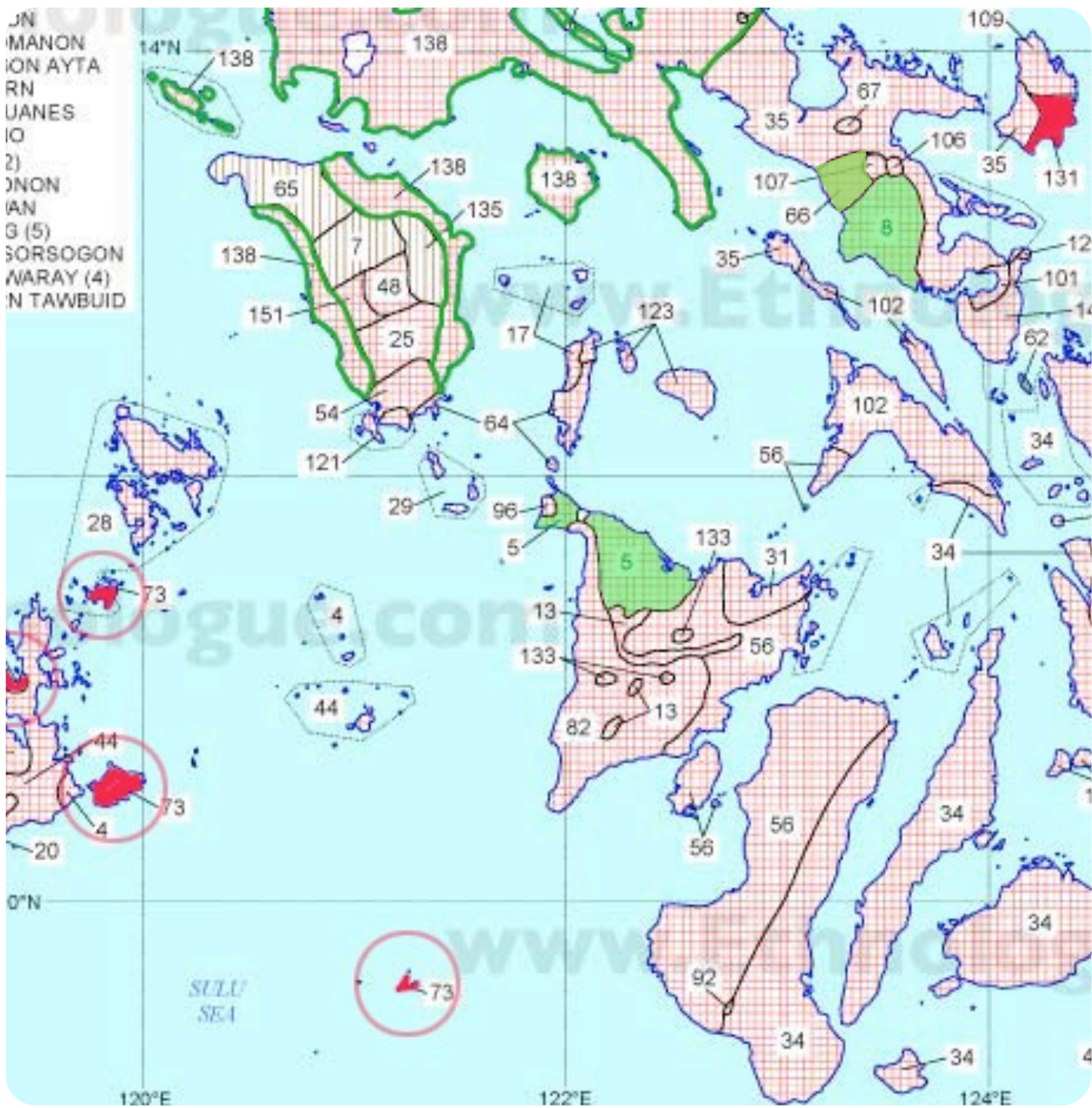
Southern Distribution



[kqe] Kalagan
[myt] Sangab Mandaya
[mry] Karaga Mandaya

[msk] Mansaka
[sxn] Sangir
[snl] Sangil

Central Distribution



[bln] Southern Catanduanes Bicolano

[cgc] Kagayanen

[bto]
[bhk]
[akl] Iriga
Buhi'non
Aklano

Some Better Data

English	Butbut	Lubuagen	Majukayong	Minangali	Kagayanen	Kalagan	Southern Catanduanes Bicolano	Blust (1999)
[eng]	[kyb]	[knb]	[kmd]	[kml]	[cgc]	[kqe]	[bln]	[PAn]
three	tu ^l ðu	ti ^l ðu	tu ^l ðu	tuðu	^l tallo	toðu	tuðu	*telu
moon	^h uðuṇ	^l buðuṇ	so ^l ðuḡag	soðuḡag	^l buðuṇ	boðuṇ	buðuṇ	*bulaN / *qiNas
path	^l tʃaðuṇ	^l keðuṣa	^l qaðuṣa	ʔaðuṣa	^l daðuṇ	daðuṇ	daðuṇ	*zalan
house	---	---	---	---	^l baðuaj	baðuaj	---	*Rumaq
deep	---	---	---	---	^l daðuim	maðuðuom	haðuðuom	---
eggplant	---	---	---	---	---	taðuom	taðuung	---
eight	---	---	---	---	^l waðuðu	waðu	waðu	---
itch	---	---	---	---	ka ^l tiðu	katoðu	katuðu	---
palm of hand	---	---	---	---	^l paðuad	paðuad	paðuad	---
man (adult male)	la ^l ðuṇʔi	leðuaki	la ^l ðuṇaʔi	laðuṇʔi	mama	---	laðuki	---
worm	ʔo ^l ðuṇ	ku ^l ðuṇ	^l qoðuṇ	batoðu	lulagu	---	---	*kulay
seed	^h u ^l ʔoṇ	βuḡeðu	^l vuqaðu	buʔoðu	lisu	---	---	---
blood	^l tʃaðuṇ	^l tʃaðuṇ	^l daðuṇ	daðuṇ	^l liṇṇissa	---	---	*daraq

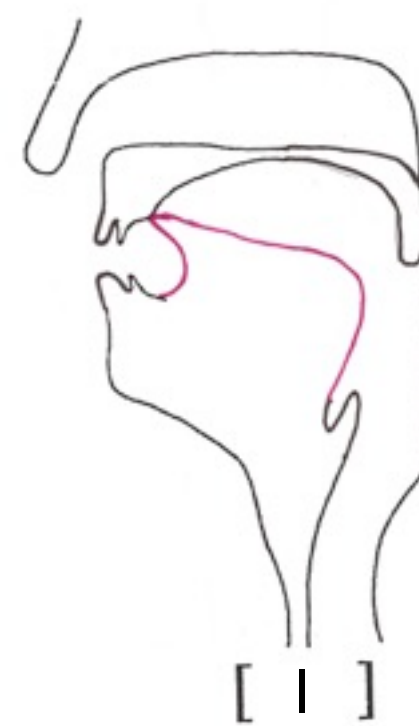
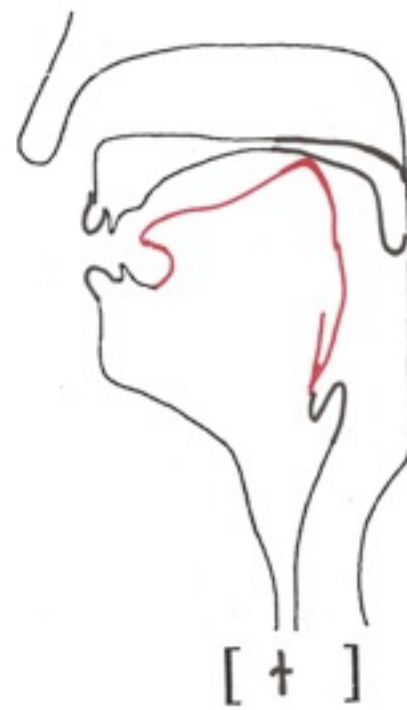
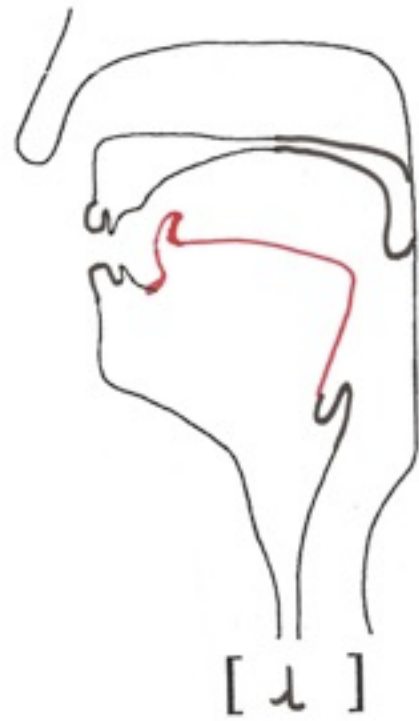
Data Interpretation

- The language of prestige does not use the interdental.

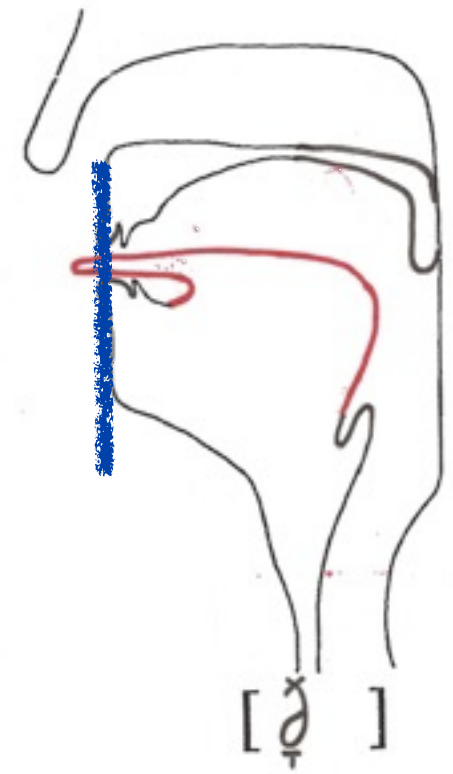
Some strategies for change

- Coronal assimilation [ɪ]
- Aklano Velarization [ɸ]
- Glottal stop replacement / deletion [ʔ] / [Ø]
- Retroflexion [ɻ], [ɭ]

Some strategies for change



Some strategies for change



What it all means

- Re-construct an alternation between interdental and *l or reconstruct the interdental

Why is this an unlikely retention?

1. Socially Unliked

2. “endangered” articulation.

3. It is an unlikely candidate to advance to the status of “proto-articulation” in comparative studies when compared with other candidates due to its rarity in each sub-group. (Gallman 1983, Harmon 1977, McFarland 1974, Reid 1973)

Friday, August 17, 18

1. Due to social pressure to not show the tongue when speaking (the mocking of speakers using the interdental approximant), this articulation is currently not preferred. It is not liked, in a sense “unlikely” or disliked. (Arcenas 2004, Gallman 1983, Harmon 1977)
2. It is unlikely that in the future the sound will be retained due to language shift and social pressure resisting the articulation. It is an “endangered” articulation.
3. It is an unlikely candidate to advance to the status of “proto-articulation” in comparative studies when compared with other candidates due to its rarity in each sub-group. (Gallman 1983, Harmon 1977, McFarland 1974, Reid 1973)

Questions

a. voiced velar fricative [ɣ] and [ɟ]

- Aklano [akl]: Zorc (1968: 45, 1969: 33) states that the velarized segment [ɟ] in Aklano “changes to /l/ in the environment of an /i/-sound”. There is some inconsistency in the literature as to the exact articulation of this sound. Zorc (1968) classifies this sound as a velar fricative. Zorc (1995) classifies this sound as a velar semi-vowel following Chai (1971). We suspect that this segment is a velar approximant or a velarized approximant, without frication.
- Buhi’non [bhk]: McFarland (1974: 31-2, 6) states that [ɣ] does not occur next to /i/, though one counter example was given.

b. voiced retroflex approximant [ɭ]

- Eastern Bontoc [bkb]: Fukuda (1997: 15) states that /l/ has the variant [ɭ] when it is not contiguous to /i/ or /e/. [ɭ] is a mid central retroflexed vocoid.
- The Guinaang variety of Central Bontoc [bnc]: (Aoyama & Reid 2006: 145-6, Reid 1963: 23) Olson et al. (2009) describes the following languages as also having a voiced retroflex approximant:
 - Madukayong Kalinga [kmd] (Ignacio Magangat p.c.)
 - Upper Tanudan Kalinga [kgh] (Glenn Machlan p.c.)
 - Balangao [blw] (Shetler 1976)
 - Mansaka [msk]: (James & Kathleen Dorn p.c.). Abrams (1963: 199) discusses the [l]~[ɭ] alternation suggesting one possible view to be that “[l] occurs utterance initial, after consonants and after /i/; [ɭ] occurs elsewhere”.

c. voiced retroflex lateral approximant [ɮ]

- Southern Kalinga [ksc] Graydon (1975, 1979) states that this is an allophone of /l/.
- Sangiré [snl]: Maryott (1977) simply states that /l/ contrasts with /l/.
- Tiruray [tiy]: Post (1966: 565) states that “/l/ is a voiced alveolar lateral with a retroflexed allophone [ɮ] in syllable final position”.
- Proto-Sagiric: Snoddon (1984: 41-3) reconstructs Proto-Sagiric /l/ to have two allophones [ɮ] and [l.]

d. Alternation with null

- Dibabawon [mbd]: Forster (1963)
- Tagalog [tag]: (Conant 1911: 71) w insertion after R-L-D loss.
- Ø May also be realized as lengthening of the vowels in some words which had /l/.

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Another Approximant

- a. voiced velar fricative [ɣ] and [ɟ]
- b. voiced retroflex approximant [ɭ]
- c. voiced retroflex lateral approximant [ɮ]
- d. Alternation with null

Soberano, Rosa. 1980. The dialects of Marinduque Tagalog. Pacific Linguistics series B no. 69. Canberra: Australian National University.

p.155
"Differences in vowel and consonant occur also within the same dialect. In Gasan and Buenavista, /l/ ~ /r/ and /g/ ~ /d/ in the terms for 'piece':. kapilanggut ~ kapinganggut ~ kapilandut; /g/ ~ /l/ in the terms for 'scream': quga:sik ~ qula:sik ~ qulapsik. In Boac and Mogpog, /n/ ~ /l/ as in 'five-centavo piece': bagun ~ bagul; /u/ ~ /i/ in 'smashed' and 'dented': tumiq ~ timiq. In Santa Cruz and Torrijos (EM), the word for 'prick' has three variants: tulusuk ~ tursuk ~ tუსluk, also showing /l/ ~ /r/, and a difference in the phonological order of phonemes in the case of the last term. Likewise in many ideolects all over the island, /t/ ~ /k/ in the word for 'egg': qitlug ~ qiklug."

- Pangutaran Sama [slm]: (Walton 1979: 200) The voiced alveolar lateral /l/ has two variants. The non-retroflexed form [l] occurs syllable initial and in intervocalic, ['laŋa] ‘hot pepper’, ['dulaw] ‘saffron’; the retroflexed variant [ɭ] occurs syllable final ['haɭgaq] ‘price’, ['katiɭ] ‘itchy’. r = flap
- Sibitu Sama [ssb]: (Allison 1979: 78) “The phone /l/ is a resonant with a voiced retroflexed alveolar lateral allophone [ɭ] and a voiced alveolar lateral allophone [l]. The retroflexed lateral [ɭ] occurs only as a syllable coda (1) before pause, or (2) before a consonant in the following word. It never occurs as a syllable onset. The non-retroflexed alveolar lateral [l] occurs freely as syllable onset. As syllable coda it occurs on la the first member of a geminate cluster, or in word final position before a initial vocoid in the following word. The following rule applies:

$$\begin{aligned}
 /l/ \rightarrow & \left\{ \begin{array}{l} l / \{ (C) V_ / \# / , \\ (C) V_ C, \\ C \neq /l/ , \\ (C) V_ / + / C \} \\ l / \text{ elsewhere} \end{array} \right\}
 \end{aligned}$$

It is interesting to note that this language also has a voiced alveopalatal nasal [ɲ], which only occurs in the syllable onset position and does not form consonant clusters.

- [bdg] Bonggi (Boutin 1993: 111) has to allophones of /l/ in the same words.

Another Approximant

- voiced velar fricative [ɣ] and [ʁ]
- voiced retroflex approximant [ɻ]
- voiced retroflex lateral approximant [ɭ]
- Alternation with null

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stated the environment for loss as 'intervocalic', e.g. Knk. *ʔuwat*, Bon. *ʔulat* 'vein'; Knk. *búwan*, Bon. *búlan* 'moon'. He did not account for the many cases in which *l* is not lost intervocalically, e.g. Knk. *díla* 'tongue', *dúlig* 'spine', *ʔili* 'village'. Nor did he account for loss of *l* which was not intervocalic, e.g. Knk. *ʔágew*, Bon. *ʔalgeu* 'sun, day', Knk. *ʔaʔʔu*, Bon. *ʔalʔu* 'pestle'; Knk. *deppag*, Bon. *deplag* 'cliff'. Loss of *l* finally in some words was also not accounted for by Conant, e.g. Knk. *buka*, Bon. *bukal* 'wild pig'; Knk. *ʔabe*, Bon. *ʔabel* 'weave'; Knk. *ʔábu*, Bon. *ʔábul* 'drive away'.

Evidence for the phonological rules which operated to bring about these changes can be found by examining the synchronic rules affecting *l* in Bontoc and other Igorot languages.

(a) The Bontoc *l*. With the exception of the dialect spoken in Bontoc town and the barrios south of Bontoc such as Talubin and Bayyo, all dialects of Bontoc have two variants for the *l* phoneme. This is true also of Samoki across the river from Bontoc, and less than 1 kilometer from the poblacion. A description of this variation first appeared in Reid 1963. The description given at that time outlined the environment in which the [l] variant occurred as follows:

- (i) word initially, e.g. [láta] 'kerosene can', [liŋʔag] 'life, spirit'.
- (ii) adjacent to [i], but not [y], e.g. [ʔíla] 'see', [čálig] 'iron plough share', [papil] 'paper'.
- (iii) as the second member of a consonant cluster which has for its first member any consonant occurring at the alveolar or interdental points of articulation, or any other consonant preceded by *i*, e.g. [naputlak] 'broken', [nakaslaŋ] 'mixed', [tínlek] 'hole made by boring', [figláʔin] 'to force', [ʔumiblay] 'to rest'.
- (iv) preceding another alveolar lateral continuant, e.g. [fallíta] 'crowbar', [čállík] 'Dalikan (village name)'.

The other variant, [r], a retroflexed low central semi-vowel, was described as being in complementary distribution with [l].

Since it is clear that the rules which are currently operative to bring about this variation were added at a period in the history of the language when there was an undifferentiated *l* (the result of the falling together of **R*, **r*, and **l*), it seems more natural to state the environments in which the change took place, rather than those in which the change did not take place as in the above description.

The following rules are necessary.

Bon. 1. $l > r / [+grave]$ ([+grave]) ____

Bon. 2. $r > l / \text{____} [-grave]$

Bon. 3. $r > l / \text{____} l [-grave]$

Bon. 4. $l > r / r \text{ ____}$

three protophonemes. As in the previous section, Bontoc (Guinaang dialect) or other Igorot languages which have retained the *l* reflex in all positions will be used to verify the Kankansay loss.

The first rule states that the change takes place following any non-front vowel (i.e. *a*, *e* ([i]), and *u*) whether or not there is an intervening labial or velar consonant. This accounts for the [r] in the following forms: [fara] 'lungs', [čira] 'outside', [čúraw] 'kind of basket', [fubruŋ] 'reeds', [saŋrag] 'roast in a pan', [saŋčar] 'vat', [ʔinir] 'nose', [čurčur] 'push', [kurpi] 'fold over', [kartib] 'scissors'.

However, Rule 1 also produces such non-occurring forms as the following: *[ʔári], *[farlig] and *[ʔarlan].

Rule 2 changes [r] back to [l] where the immediately following vowel is front, producing the correct form [ʔáli] 'come'.

Rule 3 is an [l] assimilation rule which operates only in the environment of a following front vowel, producing the form [fallig] 'Barlig town'.

Rule 4 is an [r] assimilation rule which operates on any [rl] sequence unaffected by Rule 3, i.e. in the environment of a following mid or back vowel, producing the form [ʔarran] 'a male spirit'.

The validity of this formulation of the rules is supported by the errors usually made by speakers of the dialect in Bontoc poblacion when imitating the speech of the dialects in which [r] occurs. They usually modify their own system by adding Rule 1, but rarely add Rule 2, with the result that [ʔinmálikayu] 'you (pl.) have come' is frequently imitated as [ʔinmárikayu]. A similar error probably accounts for the reason Barlig barrio is spelled as it is on all the maps. It is actually pronounced with a geminate *l* medially. In this instance Rule 3 has not been added. Likewise, Dalican barrio, pronounced [čallik], is sometimes called Darlik by speakers of the Bontoc poblacion dialect.

(b) The Kalinga *l*. Geiser (1958:16–17) describes two variants for Kalinga *l*. The description is similar to that given for Bontoc, with environments stated for the occurrence of the [l] variant, and [λ] occurring elsewhere. The [λ]¹⁸ variant is described as 'a central resonant oral, produced by relaxing the tongue and placing the tip either behind the lower front teeth, or behind the lower lip' (Geiser 1958:17).

There are two main differences between the distribution of the Kalinga variants of *l* and that of the Bontoc variants. One is that in Kalinga there are no geminate sequences of [λλ] corresponding to Bontoc [rr]¹⁹.

In Kalinga then, there is no rule equivalent to the Bontoc Rule 4, and Rule 3 is generalized so that an [λl] sequence becomes [ll] in all environments:

Kla. 3. λ > l / ____ l

The second difference is that [l] does not become [λ] when it is part of a reduplicative sequence, even though its environment would otherwise result in a change,

¹⁸Geiser uses the symbol [i] in his published description of Kalinga phonemes (1958). The [λ] symbol appears in his grammatical sketch of Kalinga (Geiser 1961).

¹⁹Geiser only cites one example where such a sequence occurs not adjacent to *i*. The form is [ʔallón] 'animal's nose ring'. This is probably an adaptation of English *earring*, note Bon. [ʔallin] 'store-bought earring'. The *o* vowel in Kalinga is a regular reflex of a proto-Igorot high central vowel.

e.g. [ʔulʔullitom] 'You (sg.) tell a story.'. In Bontoc, Rule 1 applies in a reduplicative sequence as elsewhere, e.g. [ʔumarʔáli] < [ʔáli + C₁V₁C₂ + -um-] 'coming'. However if the initial consonant of the base is not a glottal stop, subsequent rules change the final consonant of the reduplicative prefix to glottal stop, and then metathesize the resulting cluster. This rule sequence also operates when the final consonant of the reduplicative prefix is *w* or *y*, e.g. *bali* + C₁V₁C₂ > [farfali] > [faʔfali] > [fabʔali]²⁰ 'deceive'; *dáwat* + C₁V₁C₂ > [čawčáwat] > [čaʔčáwat] > [čadʔáwat] 'receive'; *báyu* + C₁V₁C₂ > [fayfáyu] > [faʔfáyu] > [fabʔáyu] 'pound rice'.

(c) The Balangaw *l*. The variants of Balangaw *l* are described by Shetler. Her description is as follows:

The lateral consonant is voiced and has two allophones; *l* [l] a lateral continuant which occurs word initially and in alveolar environments. An alveolar environment is defined as: (1) contiguous to a front vowel; (2) a preceding alveolar consonant in a consonant cluster; (3) a front vowel preceding a non-alveolar consonant in a consonant cluster . . . [r] a mid-central retroflexed vocoid which occurs word medially and finally and in non-alveolar environments . . . (Shetler 1966:5).

The examples given by Shetler indicate that [rr] clusters do not occur, as in Kalinga. Blw. *kallontay* 'rubber band' is pronounced with a medial sequence of [ll]. Balangaw then contains Rules 1 and 2 as in Bontoc and Kalinga. Rule 4 does not occur and Balangaw Rule 3 is equivalent to Kalinga Rule 3.

Blw. 3. *r* > *l* / ____ *l*

The data given by Shetler (1964:9) show the same processes operating in Balangaw reduplication as in Bontoc, e.g. Blw. *bawat* + C₁V₁C₂ > *babʔawet* 'play with a top'; *daya* + C₁V₁C₂ > *dadʔaya* 'a little bit above'; *ballat* + C₁V₁C₂ > *babʔallat* 'do some weeding'.

(d) The Ifugao *l*. Newell (1956:529) describes three variants of the Guhang Ifugao *l*. The distribution statements are somewhat different from those described above for Bontoc, Ifugao, and Balangaw. They are as follows:

The allophone [l] occurs syllable initial followed by central and back vocoids /á/, /u/ and /o/ . . . It occurs syllable final followed by [l] (i.e. as the first member of an identical cluster) . . . [ʔallán] /ʔallán/ 'giant, monster'.

[l] is a lateral flap . . . It occurs syllable initial preceding front vocoids /i/ and /e/ . . . [plǎlé] /balé/ 'house'.

The allophone [r] occurs syllable final except preceding [l]. [ʔarkoʔ] /ʔalgo/ 'sun'; [ʔatšóʔr] /ʔadól/ 'body' . . . [pánggr] /pángel/ 'chin' (Newell 1956:529).

Although similarities do appear between the distribution of the Ifugao *l* variants and those already described for the other Igorot languages, it is not easy to formulate a set of rules which can adequately account for the data and still be shown to have developed from the rules already formulated for the other languages. No attempt will be made in this paper to propose such rules, since it should be fairly evident that they are probably the result of rule changes which took place after the separation of the Igorot languages.

²⁰Bon. [f] and [č] are syllable initial variants respectively of *b* and *d*;

Reid (1973)

1. l > r / V[+grave] ([+grave]) _____
2. r > l / _____ V[-grave]
3. r > l / _____ l [- grave]
4. l > r / r _____

1. [l] word initially
2. [l] adjacent to [i]
3. [l] as the second member of a consonant cluster which it's first member is alveolar or interdental or a consonant preceded by [i]
4. [l] preceding another alveolar continuant

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1. l > r / V[+grave] ([+grave])
2. r > l / _____ V[-grave]
3. r > l / _____ l [- grave]
4. l > r / r _____

[l] word initially

[l] adjacent to [i]

[l] as the second member of a consonant cluster which it's first member is alveolar or interdental or a consonant preceded by [i]

[l] preceding another alveolar continuant

[r] elsewhere

grave relates to backness +grave = +back

Environments

Gieser (1958: 16) provides a complementary distribution statement for the [l] ~ [ɺ] alternation in the Guinaang variety of Lubuagan Kalinga. In Lubuagen the sound [l] occurs in the following four environments:

- a. word-initial position
- b. geminate cluster
- c. word-medially when preceded by a coronal consonant
(...VC___V...)
- d. contiguous to [i]

The interdental approximant [ɺ] occurs in all other environments in Guinaang, including intervocalically (but not contiguous to [i]), syllable- or word-finally, and word-medially when preceded by a labial or velar consonant.

next to /i/ & next to apical

	Virac	
day (daytime)	aḱdaw	ḱd
	Kagayanen	
run	'dḱagan	dḱ
know (a fact)	'nḱaman	nḱ
fry with little oil or no oil (to)	'sanḱag	nḱ
seashell (Kind of)	'tḱaba	tḱ
dip something into (to repeatedly)	'tiḱtiḱ	ḱt
Road	Majukayong	ḱs

	Butbut
dirty	?a'ḱisaw
	Lubuagen
good	'bibiḱu
breast	biḱukun

Suggestions for (inter)dental Genesis

- a [+ back] segment is in the position required for a [-back] segment so fronting occurs.

Implications for Phonotactics

- +/- Back distinction necessary for syllables.

Blust on Wuvulu

- /alo/ [álo] ~ [álo] ‘sun’

In all known etymologies, Wuvulu /l/ reflects POC *l. The peculiar allophony by which *l became interdental when adjacent to a high vowel apparently remains clearer in the dialect of Onne village than in that of Aunna. Although this subphonemic change is perhaps as puzzling as the conditioning of velar obstruent allophones by the height of adjacent vowels, it will not concern us further in this paper.

Not *R?

English	Blood	big	Night
Butbut	^h tʃaḏa	tʃa ^h oɭ	la ^h ʷi
Lubuagen	^h tʃaḏa	tʃakeḏ	la ^h bi
Majukayong	^h daḏa	^h doqoḏ	la ^h vi
Minangali	daḏa	daʔoḏ	labi
Tagalog	du ^h go	mala ^h ki	ga ^h bi
Iriga	ro ^h goʔ	da ^h kələ	gab ^h -i
Buhi'non	ro ^h go	da ^h kə-ə	ga ^h bi
Kagayanen	^h liŋŋissa		^h kilim
Aklan	du ^h guʔ		bagʔu
PAn	*daRaḑ	*ma-Raya	*beRŋi