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Some Phonological Aspects of South American Indian Languages

Alguns aspectos fonológicos das línguas indígenas
sul-americanas

Aryon Dall'Igna Rodrigues

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UNIVERSITY OF OREGON

SUMMER COLLOQUIUM IN LINGUISTICS

Sponsored by:
The Department of Linguistics and
the Summer Institute of Linguistics

Eighth Session

Date: Wednesday, August 19, 2:30-4:00 p.m.

Place: Straub 142

Lecturer:

Prof. Dr. Aryon Rodrigues
Universidade Estadual de Campinas, Brazil

Title:

SOME PHONOLOGICAL ASPECTS OF SOUTH AMERICAN
INDIAN LANGUAGES

Some phonological aspects of SA languages

1. SA as an isolated area; time depth of peoplement; one-way migrations.
2. Variety of languages; ~~to~~ today about 300, formerly $\times 2$ at least
3. Highland and lowland:

~~Highland is apparently~~

Lgs. of the Highland ~~are~~ ^{have} probably entered S.A. in more recent times than Lowland

lgs.: ~~(1)~~

(1) ~~the~~ the few clues so far discovered in the search for ^{close} relationships of SA lgs with lgs. outside of SA ~~are~~ are pointing to more likely ~~relationships~~ ~~of~~ ~~greater~~ affinities ~~with~~ of Meso-American (i.e. Central American and Mexican) ~~languages~~ lgs. with Highland SA lgs ~~instead of~~ and not with Lowland lgs;

(2) the phonological systems of Highland SA ~~are~~ contrast clearly with those of the Lowland, but ~~apparently~~ resemble more the systems found in Meso-America:

~~Andean Kechua, for instance,~~

Some dialects of Andean Kechua (in Southern Peru, in Bolivia) have two long series of stops, a plain one and a glottalized one:

p t k ʈ k̚ q
 p' t' k' ʈ' k̚' q'

to which are added front vowels, ^{fricatives} and liquids plus the vocative glides:

m n ñ
 l k
 w r y

Compare this with ~~Chontal~~ ^{Acotec, a Mayan language of} ~~Guatemala~~ ^{Guatemala}:

p	t	k	ʈ	k̚	q			p	t	k	ʈ	k̚	
p'	t'	k'	ʈ'	k̚'	q'			b'	t'	k'	ʈ'	k̚'	
b	d	g	ʃ	ʒ	h					s	ʃ	ʒ	x
m	n	ɲ	l	k	h			m	n				
w	r	y	ɹ	ɻ	ɣ			w	r	y			

In Lowland SA ~~series~~ series of glottalized ~~stops~~ consonants are unusual. Typical for the Tupi-Guarani languages, which spread from French Guyana to northeastern Argentina and from western Peru to eastern Brazil, is the following set of consonantal phonemes:

p t k ?
 m n y
 w r y h

4. The inventory of vowels in Highland SA is in general ~~limited~~ small. Most of the ~~Q~~ Kechua dialects have a system of three vowels:

i u
 a

This is not usual in ~~the~~ the lowlands, although you may find there some cases of minimal systems, as for instance in Pirahã:

i o
 a

The Tupi-Guaraní languages ~~like~~ as well as the Carib ones have six-vowel systems:

i e u
 e a o

Most of the Carib languages have only oral vowels, whereas the Tupi-Guarani ones have a feature of nasalization, which may be viewed as a suprasegmental, which may affect all the ~~vowels~~ vowels, ~~not~~ producing a duplication of the six-element set:

i	ɛ	u
ẽ	ã	õ

Other language families in Central SA present more complex vocalic systems. So the Jê languages in Brazil, whose vocalic inventories vary from 14 to 17 vowels, as in Guahikũ:

oral			nasal		
i	ɨ	u	ĩ	ẽ	ũ
e	ɛ	o	ẽ	ã	õ
ɛ	ɐ	ɔ		ã	
	a			ã	

In lowland SA we find also what is probably one of the largest vocalic inventories in the world. Nadëb, a language of the Maku family in northwestern Amazonia, Brazil, has exactly the same system of 10 oral vowels as Canela, ~~but to these 10 vowels~~ ~~to these vowels~~ ^{2nd} six nasal vowels, but it has also a long counterpart ^{to} for each oral and each nasal vowel ~~as~~ as well as a laryngealized counterpart to each of the preceding, be they plain, nasal or long. All in all there are 74 vowels, as follows:

Plain oral

i é u
 e ə o
 ɛ ʌ ɔ
 a

Long oral

i: é: u:
 e: ə: o:
 ɛ: ʌ: ɔ:
 a:

Plain nasal

ĩ ẽ ũ
 ẽ ă õ

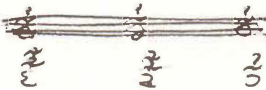
Long nasal

ĩ: ẽ: ũ:
 ẽ: ă: õ:

Laryngealized oral

i̥ ɛ̥ u̥
 e̥ ɔ̥ o̥
 ɛ̥ ɪ̥ ɔ̥
 ɛ̥

Laryngealized nasal

ĩ̥ ɛ̥̃ ũ̥


Long laryngealized oral

i̥: ɛ̥: u̥:
 e̥: ɔ̥: o̥:
 ɛ̥: ɪ̥: ɔ̥:
 ɛ̥:

Long laryngealized nasal

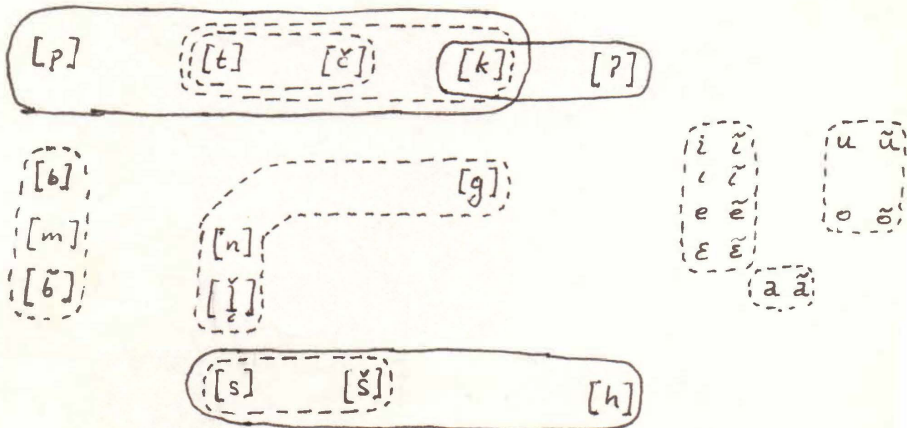
ĩ̥: ɛ̥̃: ũ̥:
 ɛ̥̃: ɔ̥̃: ɔ̥̃:

We do not have yet a definitive analysis of this complex vowel system. There is some doubt ~~is~~ ~~whether~~ on whether the phonetic difference between mid and low vowels is purely allophonic or phonemic. Laryngealization could perhaps be treated as a supra-segmental feature derived from tone, since it appears to correlate with tone in another language of the same family.

5. In lowland S.A. is spoken also what may be the language with the smallest phonemic inventory known: Pirahã of Brazilian Amazonia, which has the following seven consonants and three vowels:

p t ʔ
 b g i a o
 s h

As you know, phonemic simplicity does not mean phonetic simplicity. Pirahã has an intricate allophonic and interphonemic interplay:



----- allophonic variation
 ————— interphonemic variation

Pirzhā has also two level tones, high and low.

6. One of the most prominent phonetic phenomena with phonological consequences in Lowland S.A. is nasalization. ~~Besides~~ You are certainly acquainted with intrinsic nasalization, or ~~that is a feature of~~ a specific feature of nasal consonants and of nasal vowels that do not depend on their phonological environment, and you know nasalization of vowels and glides due to the neighborhood of a nasal consonant or vowel. Every textbook of phonetics or phonology offers you examples of such phenomena. What the phonetic textbooks do not include yet is the ~~existence~~ existence of nasalization due to other sources than the ~~presence~~ presence of ~~nasal sound~~ an intrinsically nasal sound.

In S.A. three new sources of nasalization have been discovered: (a) ~~the~~ silence, (b) vowel coarticulation, and (c) adjacency to glides.

In several ~~large~~ South American languages ~~you may~~ oral sounds, both consonantal and vocalic, become nasal at the beginning ^{or at the end} of utterances or of words, that is to say at the points of transition from or into silence. If you reflect a little on the phonetic nature of silence, you can observe that, ~~it is not~~ although it is acoustically null, from the articulatory point of view it is comparable to the nasal sounds in so far as during silence the velum is lowered (for enabling free ~~expansion~~ ^{breathing}) and so behaves as during the production of nasal sounds. In order to ~~produce~~ emit an utterance beginning with an oral sound the first thing to do for a speaker is to raise the velum; conversely, when

he or she finishes an utterance with a final oral sound, the first thing to do is to lower the velum in order to ^{re}sume the normal ~~is~~ silent respiratory activity. Any slight desynchronization in the movement of the velum would introduce a bit of nasalization at the beginning or at the end of utterances. In general ~~is~~ such a desynchronization is too slight to be noted by the speaker and the hearer and even by the linguist. When it is more pronounced, it is accounted for as a failure in performance.

What ~~happened~~ has happened in SA is that many languages have apparently ~~phonologized~~ ~~the~~ made systematic what ~~is~~ in other languages is accidental and have ~~been~~ phonologized the resulting nasalization.

Cayapa (Ecuador)

/bĩšu/ [ˈbišu] ~ [ˈmbišu]

/dáznu/ [ˈdaznu] ~ [ndáznu]

Maxakali (Brazil)

/kokod/ → kokõn

/bajod/ → mǣpõn

/dégéb/ → nǣyẽm

Pirahã (Brazil)

Utterance initially

Utterance initially

/baí/ 'rain' [baí]

[maí]

/gé'ái/ 'you' [gé'ái]

[né'ái]

/peboe baí/ [peboebaí] 'much rain'

/peboe... baí/ [peboe / maí] 'much... rain'

Xetá (Brazil)

*yu → ño 'thorn'

*yuyé → ñója 'a palm tree'

*yazwér → ñégʷa 'jaguar'

*wérápér → yʷarépa 'bow'

*wérá → yʷéra 'bird'

*e+yúr → éjo 'come!'

*i+yéβá → ijtwa 'his arm'

*o+wéβ → +páβ → ogʷépa '~~the fire~~ the fire went out'

Asurini (Brazil)

*opéβ → ópam 'it finished'

*okér → óken 'he slept'

*opík → ópaj 'he woke up'

Kaingáng (Brazil)

(a) Indep. form	Dep. form
kre 'hip'	krɛ
hə 'body'	hɛ
ɸo 'pus'	ɸɔ
krɛ 'burrow'	krɛ̃
kɛ 'tree'	kɛ̃
pɔ 'stone'	pɛ̃

(b) Non causative	Causative
ter 'to die'	tɛn 'to kill'
kɔyɔr 'to ^{have} flecks'	kɔyɔn 'to make flecks'
ɸor 'to be thrown'	ɸɔn 'to throw'
mɛɛr 'to be wet'	mɛɛn 'to wet'
mɛ 'to be carried'	mɛn 'to carry'
ɸɔr 'to be full'	ɸɛn 'to fill'

Pirakã

/hóóʔiái/ [hóóʔiáỹ] 'sky'

/hóéé/ [hóééé] 'bow'

/sápiwɛ/ [sápĩwĩã] 'chapéu'

/ʔapɛpɛi/ [ʔãp:ãpãỹ] or [ʔap:ãpãỹ] 'head'

Sateré (Brazil)/ɛt + wakui/ → ~~ɛt~~ [ɛnwakui] 'not good'

/at + hakup/ → [anhakup]