



Dialect: Galdar, Gran Canaria

process: post-vocalic non-continuant voicing previous reports: Oftedal 1986 on V_V voicing my data: recordings of several speakers from 2014/15 accompanying: spirantisation, coda consonant deletion effect: left-hand blocking, chain shift with underapplication part of a general lenition pattern

THE DATA

/p/	a[b]asionado	'enthusiastic'
/t/	fone[d]ica	'phonetics'
/k/	la fre[g]uencia	'the frequency'
/p/	tengo una [b]rima	'I have a cousin'
/t/	juntos y [d]al	'together and so on'
/k/	otra [g]lase de	'other type of

The process is well extended, both in young and in older speakers It applies regardless of the word boundary (phrase-level process) Not strictly intervocalic: applies when followed by a glide or a sonorant Similar in application to spirantisation: blocked by nasals and post-pausally

BLOCKING ENVIRONMENTS:

VOICING

SPIRANTISATION

im[p]ortante	'important'	in[b]olucrado
en[t]onces	'so / then'	en[d]oso
en un ban[k]o	'in a bank'	el Con[g]o
un [p]ueblecito	'a small village'	un [b]uen
#[p]ago	'leg'	#[b]ago
#[t]omo	'I take'	#[d]omo
#[k]oma	'eat' subi.	#[g]oma

There is an important difference in terms of process advancement Spirantisation applies all the way except following a pause or a homorganic S Voicing only after a vowel. All other segments to the left block the

el [t]riple 'three times' super [k]ór	nodo
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When a seg to the left is deleted, creating a context for voicing,

e(s)ta(s) son la(s) caracteri(s)tica(s)	'these are the fe
die(z) primo(s)	'ten cousins'
por pensa(r) tontería(s)	'for thinking ab
e[h]ele(h)tre(s)	'it's the stress'
te interesa(s)te	you got interest

No such effect ensues in the case of spirantisation: lo(s) [ð]os 'the two' Because the two processes overlap, they should be anlysed together as a part of a general lenition process.

Phonemic overlap in Canarian Spanish – the case of postvocalic voicing

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DISTRIBUTION OF VOICED AND VOICELESS STOPS AND APPROXIMANTS IN CANARIAN

[p t k]

N_V S_V

[β ð ɣ]

S V

	V_S/N		V_S/N		V_S/N	V_S/N	
n Peni	nsular Spa	anish there	e is a co	ontrast [p	t k] - [β	8 ð y] be	etween
sonora	nts with th	ne exceptior	n of post-	nasal/hom	organic la	ateral	
Voicele	ss-voiced	stop contra	ast is on	ly preserv	ved word-	initially a	after a

Peninsular

[b d g]

N V

[p t k]

N V S_V V V

pause and after nasals In Canarian, this contrast is more multifaceted: Phonemic overlap – allophones of two different phonemes overlap: [bdg] can be allophones of both /ptk/ and /bdg/ Strong contrast between voiceless stops and voiced approximants in S V, weak stop-approximant contrast in postvocalic environments

Further overlap: $[\beta \delta \chi]$ can be allophones of both /bdg/ and /ptk/ A more robust general contrast, but neutralisation in most contexts

Gran Canaria with merger						
[p t k]	[b d g]	[β ð y]				
#_ N V	#_ N V					
s_v		S_V V_V V_S/N				

(perceptual considerations?)

Functional considerations: Weak minimal pairs?

la cama [la gama *cuatro* [kwadro] paco [pago] literatura [literac grato [grado] *la poca* [la boka]

PHONOLOGY

ne process.	general spirantisation	<u>postv</u>	ocalic voicing	
ery convenient'	Constraint ranking: *[+cont][-cont, -nasal] >> Ident(cont)	Const *V[-c	raint ranking: ont, -voice] >> Ident(ve	oice)
es'	Positional markedness excludes other environments (left-hand blockers)	Derivation of the word <i>máquina</i> 'machine' *I assume that spirantised segments are approximants		
	Spirantisation manifested as feature adjacency	makina	*V [-cont, -voice]	Ident (voice)
silly things'		a. mákina	*!	
	Derivation of the word mago 'magician'	b. ☞ mágina		*
		0		

'involved'
'endorsement
'Congo'

'a good'

'vague' 'I tame' 'tyre'

*[+cont] [-cont, -nasal] [Ident (cont) mago * b. mago). 🖙 mayo

Fran Canaria			
[b d g]	[β ð ɣ]		
#_ N V			
	S_V		
V_V V_S/N	V_V V_S/N		

.]	vs. <i>la gama</i> [la yama]
	vs <i>cuadro</i> [kwaðro]
	vs <i>pago</i> [paɣo]
lura]	vs litera dura [litera ðura
	vs grado [graðo]

vs *la boca* [la βoka] ...

*See Mascaró (1991) for arguments concerning the treatment of l as +/- continuant Both voicing and spirantisation are part of lenition processes that penalise oral constriction, voicing and aperture are promoted in sonorant contexts, in line with lenition scales

The two processes combined:

makina	*V [-cont, -voice]	*[+cont] [-cont, -nasal]	Ident (cont)	Ident (voice)
a. mákina	*!	*		
b. ⊗ mágina		*!		*
c. ☜ máγina			*	*

Only **underlying** *g* spirantises

Question to be answered by phonological analysis: Why does spirantisation not apply in derived voiced stops? **SYNCHRONIC CHAIN EFFECT:** $A \rightarrow B \rightarrow C$ Solved by: Constraint conjunction (Kirchner 1997, Moreton & Smolensky 2002, Lubowicz 2002) Conjoined faithfulness constraints: Ident(voice) & Ident(cont), multiple feature changes are disallowed, the constraint can be demoted

makina	*V [-cont, -voice]	Ident (voice) & Ident (cont)	*[+cont] [-cont, -nasal]	Ident (cont)	Ident (voice)
a. mákina	*!		*		
b. ☞mágina			*		*
c. máyina		*!		*	*

OTHER PROBLEMS:

Consonant deletion as a blocker

Coda consonants are weakened and deleted both inside words (optionally) and across word boundaries

After coda deletion the following stop becomes postvocalic, voicing does not apply The undominated position of the *V [-cont, -voice] constraint makes it impossible to stop voicing in OT

pensar tonterias	*V [-cont, -voice]	*C]Coda	Ident(voice)	Max(seg)
a. pensar tonteria		*!		
b. 🛞 pensa tonteria	*!			*
c. ☜ pensa donteria			*	*

No stratum junction

Deletion is in a counter-feeding relationship with voicing, but both processes are phraselevel (resyllabification, application across wd# but notpost-pausally)

Non-locality

Local onjunction cannot be invoked because deletion applies to a different segment than voicing: Ident (voice) & Max(seg) is too strong

No harmonic mapping can predict waiting with deletion until the end of phonology

POSSIBLE APPROACHES:

pensar tonterias	*V [-cont, -voice]	*C]Coda	Ident(voice)	Max(seg)	Parse(seg)
a. pensar tonteria		*!			
b. pensa tonteria	*!			*	
c. pensa donteria			*!	*	
d. ☞ pensa[r] tonteria[s]					*

Gestural masking. Cross-tier gestural overlap may lead to apparent deletion in perceptual terms (Browman & Goldstein 1990, Bradley 2007) Requires empirical evidence, but would be in line with the observed variability and the gathered phonetic evidence

Containment / turbidity, covert structure, ~stray erasure, difference between the projected and the pronounced (Prince&Smolensky 1993, van Oostendorp 2006, Trommer 2011)