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The origin and development of possibility in the creoles of Suriname¹

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In this paper we discuss the origin and development of the expression of possibility in the creoles of Suriname. We first describe the systems of possibility in Sranan and three Maroon creoles (Ndyuka, Pamaka, and Saamaka), drawing on data elicited from informants, conversational data as well as the published literature. We examine several modal elements, namely *sa*, *kan*, *man*, *poy*, whose distribution differs across the different varieties and also over time. Our analysis reveals that the system of possibility in Sranan is organized quite differently from that of the Maroon creoles. To explain these facts, we trace the development of this area of grammar by drawing on historical data from the early Sranan and Saamaka texts, and by exploring possible influence from the Gbe substrate languages as well as Dutch. We argue that the overall structure of this subsystem in the Maroon creoles was broadly modelled on Gbe while the rather different system found in Sranan Tongo is due primarily to influence from Dutch, and to internal

¹ Most of the data on the contemporary creoles of Suriname and on the Gbe varieties come from fieldwork conducted in Benin and Suriname between 2002-2004 as part of the project “The influence of West African Languages on the tense/mood/aspect (TMA) systems of two Surinamese creoles”. We would like to hereby gratefully acknowledge the funding of the National Science Foundation (NSF Grant #BCS-0113826). We would also like to thank informants in Benin and Suriname/French Guiana for generously giving their time and H. Capo, D. Gagnon, J. Essegbey and B. Sanna for helping with the collection of the data, and H. Capo, J. Essegbey and Enoch Aboh for insightful discussions about the interpretation of the Gbe data and Robby Morroy, Hertoch Linger, Margie McBean and Renata de Bies and Yolanda Boldewyn for insightful discussions of the Sranan Tongo data. Last but not least we also want to express many thanks to Laurence Goury for her help with the early documents. She had originally planned to co-write this paper to celebrate Jacques’ contribution to the field of creole studies but was finally not able to do so for personal reasons. We also thank three anonymous reviewers and the editors of this volume for constructive criticism.

developments.

Keywords: Possibility, Creoles of Suriname, contact-induced change

0. Introduction

The creoles of Suriname raise some intriguing questions concerning the interplay of internally and externally motivated language change in the formation and development of creole grammar. While the Surinamese creoles appear to descend from a common source, they still display noticeable differences that raise questions regarding their origins and developments that have not yet been fully explored. One subsystem that shows a fair amount of variation across the different Surinamese creoles is the expression of possibility. It involves four elements - *sa, kan, man, poy* - whose distribution varies across the different varieties and also over time. Moreover, the different elements do not appear to have emerged as the result of the same processes. This suggests that the development of this area of grammar represents an instance of gradualism in the emergence of the grammar of the creoles of Suriname (Arends and Bruyn 1995: 111; Arends 1993, 1999; Singler 1996, 1990).

In this paper we examine the expression of possibility in Sranan Tongo (henceforth Sranan) and the Maroon creoles (Ndyuka, Pamaka, and Saamaka), drawing on data elicited from informants, conversational data as well as the published literature. Our analysis reveals that the system of

possibility in Sranan is organized quite differently from that of the Maroon creoles. The most striking difference has to do with the different meanings that the modal *sa* conveys in the creoles. The Maroon creoles, (Pamaka, Ndyuka and Saamaka) employ this modal in a wider range of functions than Sranan does. For instance, Sranan distinguishes *sa* from modal *kan*, which expresses both epistemic and deontic possibility, and also from *mag* (< Dutch *mag*), which expresses permissibility. By contrast, the Maroon creoles subsume all of these types of possibility under *sa*, suggesting that they employ this auxiliary as a marker of potential mood. To explain these facts, we trace the development of this area of grammar by drawing on historical data from the early Sranan and Saamaka texts, and by exploring possible influence from the Gbe substrate languages as well as Dutch. We argue that the overall structure of this subsystem in the Maroon creoles was broadly modelled on Gbe. On the other hand, we argue that the rather different system found in Sranan is due primarily to influence from Dutch, and to internal developments.

The paper is organized as follows. Section 1 compares the systems of possibility and the various modal elements that are used to express it in the contemporary creoles. Section 2 describes the distribution and uses of these elements in early Sranan and Saamaka documents, and compares them with their modern counterparts, with a view to determining similarities and differences in the expression of possibility. Section 3

focuses on the influence of Dutch in the emergence of the Sranan system of possibility. Section 4 examines the uses of *sa* in the early Sranan and Saamaka documents, while section 5 compares the uses of *sa* in Sranan with the uses of Dutch *zullen*. Section 6 argues that the subsystem of possibility in the Maroon creoles, and the uses of *sa* in particular, were heavily influenced by varieties of Gbe. The final section summarizes the findings and discusses their implications.

1. Possibility in the modern creoles of Suriname

Possibility includes notions such as ability, present likelihood, and permissibility, which respectively represent cases of dynamic, epistemic and deontic modality. Cases of dynamic modality simply assert what seems to be a factual statement, and do not involve the opinion or attitude of the speaker, except that the statement is true (Palmer 1986:102). Epistemic possibility “indicates the extent to which the speaker is committed to the truth of the proposition, for instance, when s/he conveys the sense that a proposition may possibly be true” (Bybee et al. 1994: 177). Finally, deontic possibility refers essentially to permission, which involves a deontic source that may be either the speaker or some other person or institution that creates the permission.

1. 1. Dynamic possibility in the creoles of Suriname

Dynamic possibility includes mental or learned ability and physical ability, as well as the broader concept of root possibility, which “is not restricted to the internal condition of ability, but also general external conditions” (Bybee et al 1994:178) .

All of the Surinamese creoles distinguish learned ability from physical ability. The former is expressed by a construction in which the verb *sabi/sá* ‘to know’ selects an activity verb.²

- (1) a. PM/ND/SN *A pikin ya, a sa(bi) leisi bun.*³
b. SM *Di mii aki, a sá leisi bunu.*
DET child here she know read well
‘The/this child, it can read well/knows how to read well.’

Physical ability is expressed differently in the four Creoles. In Saamaka it is always conveyed by the element *sa*, in both positive and negative contexts.

- (3) a. SM *Di muyEE dE woyo án booko. A sa / ta si.*

² In the Maroon Creoles, *sabi* also selects a small number of nouns that imply a certain activity, e.g. *buku* implies the activity of reading, to express mental ability (Migge 2006: 35).

³ Unless otherwise indicated, the examples come from the authors’ own field work.

DET woman there eye NEG break. she MOD/IMPV see

‘That woman is not blind. She can see/she sees.’

b. SM *Di muyEE dE woyo booko. Á sa si.*

DET woman there eye break. She-NEG POT see

‘That woman is blind, she cannot see.’

Pamaka and Ndyuka use *sa* (4) in positive contexts, but under negation physical ability is expressed by *man* in Pamaka and *poy* in Ndyuka (5).

(4) ND *A taanga, a sa diki wan ondoo kilo.*

She strong she MOD lift one hundred kilo

‘She is strong, she can lift 100 kilos.’

(5)a. ND *A uman de beendi. A á poy sii yu.*

DET uman there blind she NEG MOD see you

‘That woman is blind. She cannot see you.’

b. PM *A uman de ain booko. A án man sii u.*

DET woman there eye break she NEG MOD see you

‘That woman is blind. She cannot see you.’

In certain restricted contexts such as in a (response to a) challenge, *man* and *poy* can also be used in positive contexts (cf. Migge 2006: 42).

Sranan generally employs *kan* for positive physical ability and *man* for negative physical ability.

(6) a. SN *A tranga srefisrefi. A kan opo wan hondro kilo.*
he strong selfself he can lift one hundred kilo
'He's really strong. He can lift a hundred kilos.'

b. SN *A frow dati breni. A no man sii yu.*
DET woman that blind she NEG MOD see you
'That woman is blind. She can't see you.'

But, according to some Sranan speakers, *kan* does not indicate ability on the part of the agent, but rather possibility. For such speakers, *man* is increasingly being used in both positive and negative contexts to express ability. As one Sranan informant notes, *kan* implies a choice or opportunity to do something, while *man* means one has the ability to do it. Hence the contrast between the following sentences:

(7) a. SN *A boy kan waka go na foto.*
DET boy MOD walk go LOC town
'The boy can (i.e. has the choice to) walk to town.'

- b. SN [Context: Speaker was ill before, but has recovered sufficiently to play a game of football]

Tide mi man prei baka, mi e feri betre.

Today I MOD play again I IMP feel better

‘Today I can, (i.e. am able to) play again, I’m feeling better.’

1. 2. Root possibility in the creoles of Suriname

The Maroon creoles employ the same elements that are used to express ability to convey more general types of root possibility. Saamaka employs *sa* in both positive and negative contexts and Pamaka and Ndyuka use *sa* in positive contexts and *man* and *poy*, respectively, in negative contexts.

- (8) a. SM *Mi a(bi) moni, nou mi sa go a booko di dia.*

I have money now I MOD go LOC break DET day

‘I have money thus I can go to the party.’

- b. SM *Mé sa ko tide moo mi fi siki tide.*

I-NEG MOD come today more I feel sick today

‘I’m not able to come today because I am feeling sick.’

(9) a. ND *Mi a(bi) moni, mi sa go na a fesa.*

I have money I MOD go LOC DET party

‘I have money, thus I can go to the party.’

b. ND *Mi á poy de na a kiiman se.*

I NEG MOD exist LOC DET killer side

‘I can’t be on the killers side.’

Sranan speakers generally employ *kan* to express this meaning in the positive, and *man* in the negative, as in the case of ability.

(10) a. SN *Mi abi moni, dati meki mi kan go na a dansi.*

I have money that make I can go LOC DET dance

‘I have money, so I can go to the dance.’

b. SN *Mi no abi moni, dati (ede) meki mi no man go*

I NEG have money that head make I NEG MOD go

na a dansi.

LOC DET dance

‘I don’t have money, so I can’t go to the dance.’

However, some speakers use *kan* instead of *man* in negative contexts. One informant notes that *kan* may be used if a reason is given.

- (11) SN A *pikin no kan tan dyaso, fu di mi no o*
 DET child NEG can stay here for that I NEG FUT
de na oso.
 COP LOC house
 ‘The boy can’t stay here tonight, because I won’t be at
 home.’

This use of *kan* does not imply that there is a prohibition on the agent’s actual ability to perform the act, but simply that the possibility does not exist. These data suggest that some Sranan speakers are keeping physical ability separate from (other kinds of) root possibility.

1. 3. Deontic possibility in the creoles of Suriname

Deontic possibility or permission is expressed in the same way as ability and root possibility in the Maroon Creoles: *sa* is used in positive constructions and *man/poy* in negative constructions in Pamaka and Ndyuka, while Saamaka employs *sa* in both kinds of construction.

- (12) a. PM A *boy sa tan ya f’en tide neti.*
 DET boy MOD stay here for-him today night
 ‘The boy can (i.e. is allowed to) stay here tonight.’

b. PM *A boy án man tan ya tide neti.*

DET boy NEG MOD stay here todaynight

‘The boy cannot (i.e. is not allowed to) stay here tonight.’

(13) a. SM *Eside ndeti mi mma taa mi sa go ku en*

Yesterday night my mother tell I MOD go with her

a foto.

LOC town

‘Yesterday night, my mother said I can go with her to town.’

b. SM *Yee i á ta libi bunu, i á sa pee*

If you NEG IMF live well you NEG MOD play

ku di oto wan fi i.

with DET other one for you

‘If you aren’t nice, you won’t be allowed to play with the others.’

In Sranan, permissibility is expressed by *kan* in the positive and *man* in the negative but the Dutch-derived element *mag* is increasingly used in both contexts as well.

(14) a. SN *A boy kan/mag tan dyaso tide neti.*

DET boy MOD/MOD stay here today night

‘The boy may (is allowed to) stay here tonight.’

- b. SN *A pikin no o man/mag tan dyaso tide neti.*
DET child NEG FUT MOD stay here today night
A no kisi primisi.
he NEG get permission

‘The child cannot stay here tonight. He did not get permission’

1. 4. Epistemic possibility in the creoles of Suriname

Epistemic possibility is expressed by modal auxiliaries as well as by adverbials like *kande* (< *kan* + *de* ‘can be’) ‘maybe,’ and expressions like *A kan/sa de taki* ‘it may be that.’ ~~The latter two choices are more typical of Sranan and the Eastern Maroon creoles.~~ Not true, see data on SM: OMIT
In the Maroon Creoles, *kande* and *sa* are both used in positive and negative contexts.

- (15) a. ND *Den pikin sa e siibi nounou.*
DET-pl child MOD IMF sleep nownow
b. SM *Dee mii dee sa ta duumi nounou.*
DET-pl child they MOD IMF sleep nownow
c. ND *Kande den pikin (sa) e siibi nounou.*
Maybe DET-pl child MOD PROG sleep nownow

‘The children may be sleeping now.’

- (16) a. PM *Kande den pikin ná o siibi nounou.*
Maybe DET-pl child NEG FUT sleep nownow
‘Maybe the children won’t be sleeping now.’

- b. PM *J. án sa de a osu nounou.*
J. NEG MOD COP LOC house nownow
‘J. may not be at home right now.’

In the negative, constructions with *kande* appear to be preferred in Pamaka and Ndyuka though.

Sranan, on the other hand, prefers to use expressions like *kande* and *a kan (de) taki* in all contexts.

- (17) a. SN *Kande den pikin (no) e sribi kaba.*
Maybe DET-PL child (NEG) IMPV sleep COMPL
‘The children may (not) be sleeping already’

- b. SN *A kan (de) taki alen o kon tide neti.*
It MOD COP that rain FUT come today night
‘It may rain tonight (= It's possible it will rain tonight)’

Some Sranan speakers seem to employ the modal auxiliary *kan* to convey epistemic possibility, but this appears to be quite rare. Only one of our informants allowed for the following:

(18) SN *John kan de na oso nownow.*

John MOD be-there LOC house nownow

‘John may be at home now.’

It must be noted that Sranan also uses *sa* in an epistemic function, as in the following sentence:

(19) SN *Jan sa de na oso nou(nou).*

John MOD be-at LOC house nownow

‘John should be at home now (i.e. it's probable that John is at home now).’

This at first glance suggests that Sranan uses *sa* in the same way as the Maroon creoles. But Winford (to appear) demonstrates that the epistemic sense of *sa* in Sranan is somewhat different from that in its sister creoles. In the former, *sa* conveys the speaker's assessment of the probability of a situation being true, based on her/his assumptions, expectations and weighing of options in relation to the situation in question. This is in fact

quite close to the epistemic use of English *must*, that is, the sense of strong probability. Closely related to this is the use of *sa* in assertions like the following which express strong expectation on the speaker's part:

[Context: John's father has died in Holland, and John is in Suriname. He hates flying, but still:]

(20) SN *Fu di na en p'pa dede, a sa go na p'tata.*

For that FOC his father dead he MOD go LOC Holland

'Since it's his father that died, he shall/should go to Holland.'

In such cases, *sa* conveys the sense that the other person will perform the future action because he is under some kind of moral or social obligation to do so. By contrast, in the Maroon Creoles, the informants always insisted that *sa* in cases like these always expresses possibility, and never claimed that it could convey strong probability or the sense of an obligation.⁴ The similarities between the Maroon creoles and Sranan in relation to the use of *sa*, then, are limited, or partial. We discuss the use of *sa* in Sranan in more detail in section 5.

1. 5. *Summary of the findings*

⁴In the Maroon creoles obligation is expressed by *mu* or *musu* (*fu*).

To sum up, several differences are found among the Creoles. Saamaka employs *sa* to express all forms of possibility, including ability, root possibility, permissibility and epistemic possibility, in both positive and negative contexts. Ndyuka and Pamaka, on the other hand, use *sa* to express all these notions in positive contexts, but employ *poy* and *man*, respectively, in negative constructions, as well as in a few positive constructions involving physical ability. We suggest that, in the Maroon creoles, all types of possibility are subsumed under a category of Potential mood, expressed by *sa*. This accords with previous analyses in the literature. Thus, Huttar and Huttar (1994:513) describe *sa* in Ndyuka as conveying intention, uncertainty and potential mood, that is, the sense of ‘be able.’ Similarly, Rountree (1992:44) describes *sa* in Saamaka as meaning ‘may, might, can’, and says it indicates possibility or ability. The various interpretations of *sa* as expressing a particular type of possibility are largely dependent on the discourse context. We further suggest that, in Ndyuka and Pamaka, *poy* and *man* respectively convey dynamic and deontic possibility in negative contexts. It may be reasonable to say that their core meaning is ability. Finally, in Sranan, we can identify at least three distinct modals of possibility, *kan* for root possibility, *man* for physical ability, and *mag* for permission. Epistemic possibility is generally expressed by adverbial *kande* or the expression *A kan de taki*, and not by a modal, though some speakers appear to use *kan* in this sense. But changes

seem to be in progress in Sranan that appear to be leading towards making *man* the marker of physical ability, *kan* the marker of possibility and *mag* the marker of permission in both negative and positive contexts. In addition, Sranan differs from the Maroon creoles in that it uses *sa* to convey the sense of probability, and in some contexts, expectation or obligation.

The differences among the creoles raise two sets of questions. First, have these differences always been present or did they emerge later, as each creole evolved separately? If they emerged later, what was the original system like? Second, what are the reasons for the differences in the modern systems? Did they come about due to different kinds of input, different kinds of contact-induced changes and/or different kinds of language-internal changes?

In the next section, we investigate the ways in which the various modal elements surveyed above are used in the early Surinamese creole texts, in order to determine whether their functions there are similar to those found in the modern creoles.

2. The uses of the modals of possibility in the early documents

Our investigation is necessarily limited to earlier Sranan and Saamaka, since no early documents are available for the Eastern Maroon

varieties Pamaka and Ndyuka. While there are a few documents from the late 17th century, e.g., court records (van den Berg 2000), and early 18th century, e.g., the Herlein fragment of 1718, most of the linguistically substantial documents date from the mid to late 18th century, that is at least 70 years after the projected emergence of the early plantation varieties in the later 17th century.⁵ Most of these documents were written by Europeans whose exposure to the language and its different varieties varied. For discussions of the background of the authors see Arends (1995), Bruyn (1995), van den Berg (2007).

Our investigation of the early documents from Sranan and Saamaka reveals similarities to, as well as some important differences from, the modern varieties. The most significant difference concerns the modal *sa*, which is used in the early texts primarily to express futurity and related modal notions to be discussed below, but is not used to convey possibility, as far as we can tell. In general, possibility seems to be expressed primarily by *kan* in both early Sranan and Saamaka. We will discuss the expression of possibility in the following section, and then consider the uses of *sa*.

⁵The historical data for Sranan come from the following sources: the Court Records from 1667 until 1767 (in van den Berg 2000); Herlein 1718, van Dyk c1765, Nepveu 1770 (in Arends and Perl 1995); [the Saramaccan Peace Treaty in Sranan \(1762\) \(Arends 2004 and van den Berg 2004\)](#); Schumann's dictionary of Sranan (1783) (Kramp 1983); the Neger-Engelsch – Nederlands Woordenboek from Focke 1855. The historical data for Saamaka come from a Saramaka dictionary and grammatical sketch by Riemer (1779) (in Arends and Perl 1995), Schuchardt's edition of Wietz' edition of Schumann's Saamaka dictionary (1778), the translation of the story of the Apostles by Wietz 1805 (in Schuchardt 1914) and the Saamaka Maroon Letters (Arends and Perl 1995).

2. 1. Possibility in the early Sranan Tongo texts

All of the modern modals, *kan*, *man* and, more rarely *mag*, can be found in the early Sranan texts. *Kan* and *mag* are used in much the same way as in modern Sranan, while *man* functions more like a noun, though it is clearly the source of the modern modal.

Kan closely resembles both the English modal *can* and the singular form of its Dutch counterpart, *kunnen* (Cf: *ik kan, jij kan, zij/hij kan* ‘I/you/she/he can’), suggesting that it originally derived from either one or possibly from both of them. In the early Sranan texts *kan* is used in ways quite similar to its modern counterpart, to express root possibility (21a), (physical) ability (21b) and permission (21c).

(21) a. ESN *lange monni mi kan kissi alle zanti na engelsze konderi.*

with money I MOD get all thing LOC English country
‘I can get anything with money in England.’

(Van Dyk c1765 in Arends and Perl 1995: 153)

b. ESN *mi no ha tiffi morro, mi no kann kau.*

I NEG have teeth more I NEG MOD chew
‘I don’t have any teeth anymore, I cannot chew.’

(Schumann 1783 in Kramp 1983: 150)

c. ESN *Da misi takki offe mastra plessi a kan go*

DET lady say if master please he MOD go

lange da boto.

PREP DET boat

‘The lady says you can go on [with] her boat.’

(Van Dyk c1765 in Arends and Perl 1995: 214)

Kan is also used in the same meanings in negative contexts (22b), where *man* would be expected in modern Sranan. The use of *man* (also spelt *mann*) to express ability is first attested in the court records in 1707 (Van den Berg 2007: 215). It is also attested in Schumann’s 1783 Sranan dictionary where it also expresses negative physical ability but selects a non-finite VP headed by the preposition *va* (22).

(22) ESN *Mi no man va hoppo datti.*

I NEG man for lift that

‘I am not strong enough to lift that (lit.: I am not man for lift that).’

‘I cannot lift that.’

(Schumann 1783: 107 cited in van den Berg 2007: 216).

In (22) *man* is a noun meaning ‘(male) person’. The modern modal auxiliary emerged from this noun due to a process of reanalysis and grammaticalization, and substrate influence (Van den Berg 2001, Van den

Berg and Arends 2004, Migge 2006). Modal *man* is not attested in either early or modern Saamaka.

Mag also appears, though rarely, to express permission in early Sranan.

(23) ESN *zomma no mag jarri hem da ogeri kwitti*
person NEG MOD carry him that terrible very
na mi hay.

LOC my eye

‘People were not allowed to carry him. It’s a terrible sight.’

(Van Dyk c1765 in Arends and Perl 1995: 198)

We found no examples of *kan* being used to express epistemic possibility, but instances of this are rare in the early texts anyway WHAT’S YOUR REFERENCE?, so no firm conclusion can be drawn. However, the adverb *zomtem* ‘perhaps’ is sometimes used, with *sa*, to express possibility (see below). This parallels the use of *kande* (in combination with future *o* and *sa*) in modern Sranan. In general, then, the system of possibility in early Sranan is quite similar to what it is in modern Sranan.

2.2. Possibility in the early Saamaka documents.

In early Saamaka, only *kan* and *poli*, the reflex of modern *poy*, are attested. *Kan* is not attested in the Saamaka dictionaries, but we found one example in Wietz' translation of the gospel and four instances of *kan* in the Maroon Letters from Saamaka. They express ability (24a) and root possibility (24b).

- (24) a. *Joe no sabbi da moeffe va mi bieka joe no*
 you NEG know DET mouth for me because you NEG
kan jerri gweette gweet.
 can hear at.all at.all
 'And you don't know my language because you can't understand it at all.'
- b. *na hem ala somma kan findi boene liebi va teh go.*
 in him all person can find good life for until go
 'In Him everybody can find eternal life.'

(Maroon Letters from Saramaka 1790 in Arends and Perl 1995: 286)

Kan is not used in the modern Maroon Creoles.⁶

The modal *poy* derives from the earlier form, *poli*, which in turn derives from *pode* [podi] 's/he can,' the third person singular form of the Portuguese verb *poder* 'can' (Smith 1987). In the examples attested in

⁶Our conversational and elicited data from the Maroon creoles suggest that *kan* is not generally used in the contemporary Maroon creoles outside of cases of code-mixing and codeswitching with Sranan (cf. Migge 2007) and the phrases *a (no) kan taki...* 'It is (not) possible that...'

Schuchardt's edition of Schumann's 1778 Saamaka dictionary and in Wietz' translation of the gospel *poli* conveys a sense of ability.

- (25) a. ESM *wi no poli va brokko di tranga watra aki.*
we NEG can PREP break DET strong water here
'We cannot fight against the current here.'
(Schumann 1778 in Schuchardt 1914: 57)

In most examples it occurs together with the negative marker and selects a non-finite VP headed by the preposition *va*. However, there is one example in Wietz where it is used without the negation marker and another one in which *va* is absent (cf. Wietz 1805: Schuchardt 1914: 29, 16). *Poli* is not used in modern Saamaka, but, as we have seen, its modern form, the modal verb *poy*, conveys ability in negative contexts in modern Ndyuka.

2. 3. Summary

To sum up, both early Sranan and Saamaka express possibility with the modal *kan* and other elements such as *mag* (Sranan) and *poli* (Saamaka). *Sa*, as far as we can tell, is not part of the system of possibility in the early documents. We also found clear continuities between early and modern Sranan in the use of the modals of possibility. By contrast, the

system represented in the early Saamaka texts differs sharply from that of modern Saamaka, where *sa* is the primary means of expressing possibility. In the following sections, we attempt to explain the different developments in the expression of possibility across the contemporary creoles. First, we argue that the modern Sranan system of possibility, centered around modals *kan* and *mag*, is modelled largely on that of Dutch, with the exception of modal *man*, which is due to both substrate influence and internal developments. Second, we attempt to explain the significant differences between Sranan and the Maroon creoles in their use of the modal *sa*. We argue that the uses of *sa* in both early and modern Sranan have been strongly influenced by the uses of Dutch *zullen* ‘shall, should.’ On the other hand, we argue that the use of *sa* as a marker of Potential mood in the contemporary Maroon creoles may have been due to the influence of Gbe languages, which had markers of Potential mood with uses similar to those found in the Maroon Creoles.

3. Dutch influence on possibility in Sranan.

Most of the uses of *kan* attested in the early Sranan texts are identical to those found in contemporary Sranan. The meanings it conveys in both forms of the language include root possibility, ability and permission. Its use to convey epistemic possibility is marginal at best in modern Sranan, and seems to be a recent development. The various uses of *kan* are very

similar to those of *kunnen* in Dutch, as illustrated in the following examples, taken from van Dyk's (1765) early Dutch (EDU) translations of early Sranan.

First, *kunnen* expresses root possibility, including ability in both languages.

(26) a. ESN *Mastra da homan no kan wakke*

master the woman NEG can walk

rasi brokke kwetti.

buttocks break quite

b. EDU *Meester dat Vrouws-Perzoon kan niet loopen,*

master that woman-person can not walk

haar Billen binnen stukkend.

her buttock in pieces

'The woman can't walk, master. Her buttocks are completely ruined.'

(Van Dyk 1765, in Arends and Perl 1995: 179)

Second, *kunnen* also conveys the notion of permission (compare 21c).

(27) EDU *De Jufvrouw zeid als het myn Heer*

DET lady say if it my master

geleegen komt zoo kan hy meê gaan.

suit come so can he with go

‘The lady says if it suits my master he can come along.’

(Van Dyk 1765, in Arends and Perl 1995: 214)

Third, in modern Dutch, and presumably also in early Dutch, *kunnen* expresses the notion of epistemic possibility.

(28) *Jan kan wel verhinderd zijn.*

name can surely obstructed be

‘Jan may be held up.’ (Coppen et al. 2004: 18·5·4·4·ii·a, ex. 1)

The close similarities in meaning and function between *kan* in Sranan and *kunnen* in Dutch suggest that the former was modelled on the latter.

However, given that the main superstrate input to the creoles of Suriname, English, has a phonetically and semantically similar form, *can*, it is equally likely that the meanings of *kan* initially emerged due to influence from English and were subsequently only reinforced by Dutch influence. Finally, we saw that, in early Sranan, permission could also be expressed by *mag*, which is clearly a borrowing from Dutch, compare (23) with its translation (29b) and (29a).

(29) a. DU *Je mag hier niet roken.*

You MOD here NEG smoke

‘You are not allowed to smoke here.’

(Coppen et al. 2004: 18·5·4·4·iii·d, ex. 36)

b. EDU ... *Mogt hy niet door Menschen*

MOD he NEG through people

Begraaven worden.

bury ???

‘... was he not allowed to be buried by people/humans.’

(Van Dyk 1765, in Arends and Perl 1995: 198)

4. *Sa* in the early texts

We now examine the use of *sa* in the early texts and compare them with its use in the modern varieties. Our examination reveals that *sa* is used in quite similar ways in early Sranan and Saamaka. It’s primary use is to express futurity, though it also conveys certain modal notions. In the early Sranan (ESN) texts, *sa* is spelt variously as *zal*, *zel*, *za*, *ze*, *zey*, *zoe*, *saa*, *sal* and *sa* (van den Berg 2007: 199).⁷ It appears mostly as *sa* in the early Saamaka documents. Recent analyses (Winford to appear, Migge and Goury in press) suggest that it derives from *zal*, the first and third person singular form of the Dutch auxiliary *zullen* ‘must’, but others link it also to English *shall* (cf. Van den Berg 2007: 188).

⁷ In the text we will continue to use *sa* to refer to these orthographic variants, but the textual examples will, of course, preserve the original orthographic variant.

In the early Sranan and Saamaka texts, *sa* expresses future time reference in contexts specially marked for future time reference (30a and b) and in constructions that lack such overt reference (31a and b).⁸

(30) a. ESN *Pikien morre wi za drinki koffi.*

small more we FUT drink coffee

‘We’ll drink coffee in a few moments/a little while.’

(Van Dyk c1765 in Arends and Perl 1995: 150)

b. ESM *mi bribi, tide bakkraman sa doro.*

I believe today European.person FUT arrive

‘I believe that the people of Paramaribo will come back today.’ (Schumann 1778 in Schuchardt 1914: 61)

(31) a. ESN *Ke joe za habi plyziri noeffe.*

INTERJ you FUT have pleasure enough

‘You’ll have a lot of fun.’

(Van Dyk c1765 in Arends and Perl 1995: 144)

b. ESM *ju sa poli tulle sannu.*

you FUT spoil all things

‘You will spoil everything.’

(Schumann 1778 in Schuchardt 1914: 97)

⁸ In the former contexts *sa* appears to be optional (cf. Van den Berg 2007: 188-9).

Van den Berg (2007:188) confirms that later time reference is expressed by (variants of) the preverbal marker *sa*, and/or by temporal adverbs denoting later time reference, in all of the early Sranan sources.

Sa also conveys certain modal overtones, such as commitment or intention on the part of the speaker, or the sense of weak obligation or requirement. We regard these as secondary meanings of *sa*, which are contextually determined. Commitment typically takes the form of a promise (32) or a threat (33):

(32) a. ESN *Mastra tanki fo joe mino zal doe morre.*

master thanks for you I.NEG MOD do more

‘Please, master, (I promise) I won’t do it again.’

(Van Dyk c1765 in Arends and Perl 1995: 179)

b. ESM *teh mi go na plantasi, mi sa komm luku ju wanten.*

when I go LOC plantation I MOD come look you one.time

‘When I go to the field/plantation, I’ll come to see you as

well.’ (Schumann 1778 in Schuchardt 1914: 113)

(33) a. ESN *a doe wan trom morre mi za kiele da homan.*

she do one time more I MOD kill the woman

‘If she does it one more time, I shall kill the woman.’

(Van Dyk c1765 in Arends and Perl 1995: 179)

b. ESM *Mi sa da yu kangra.*

I MOD give you kangra

‘I will/shall use the kangra method to determine whether or not you are guilty (of some crime).’ (Schumann 1778 in Schuchardt 1914: 76)

In both early Saamaka and Sranan we also find uses of *sa* where it seems to express a sense of weak obligation or requirement.

(34) a. ESM *mi sa go jusnu?*

I MOD go just now

‘Should I go immediately?’

(Riemer 1779 in Arends and Perl 1995: 341)

b. ESN *Da bassia takki mi za go na mastra*

DET manager say I MOD go LOC master

fo locke koekeroe worke.

for look kitchen work

‘The manager said that I should go to the master to do work in the kitchen.’

(Van Dyk c1765 in Arends and Perl 1995: 185)

These findings are in keeping with the views expressed by Schumann (1783:146), who observes that, in early Sranan, *sa* conveys future time reference, as well as the sense of (German) *sollen* ‘shall, should.’ With regard to earlier Saamaka, however, Schumann and, following him, Riemer suggest that *sa* means only: *sollen* (Perles translation of Riemer 1779 in Arends and Perl 1995:374).

The early documents also show that, by the late 18th century, the motion verb *go*, usually in combination with progressive markers *de* (Sranan) and *tan* (Saamaka) had emerged as a means of conveying futurity, thus entering into competition with *sa*.

(35) a. ESN *a de go passa abra.*

he IMF go pass over

‘It will/is going to overflow.’

(Schumann 1783 in Kramp 1983: 45)

b. ESN *Mi go meki brifi.*

I FUT make letter

‘I’ll/am going to write a letter.’

(Schumann 1783 in Kramp 1983: 69)

(36) ESM *mi tann go worko.*

I IMF go work

‘I will work.’ (Riemer 1779 in Arends and Perl

The future marker *o* in the contemporary creoles most likely developed from (*de/tan*) *go* via a cross-linguistically well-attested path of grammaticalization (Bybee and al. 1994) and phonological reduction (Migge and Goury in press).

The emergence of this new future marker as a competitor to *sa* is quite relevant to our discussion, since it may explain why *sa* gradually became associated less with the temporal notion of later time reference, and more with the modal meanings it now conveys. Van den Berg (2007: 192) suggests that (*de*) *go* expressed predictive future, prospective future, and intention. She also suggests that (*de*) *go* conveyed a greater degree of commitment to the truth, while *sa* became associated with overtones of uncertainty (p. 193-4).

With regard to early Saamaka, Schumann, and following him, Reimer, provide some insight into the difference between the competing markers of futurity. They argue that *tan* + *go* is the main or common future-marking strategy in 18th century Saamaka. Reimer also notes that

“...*sa* can be used instead of *tango*, e.g. *mi sa go*, *mi sa worko*; but actually *sa* in this case is Town-language (Sranan), because in Saramaccan it means only: *sollen* [German: ‘shall, should’].”

(Perl’s translation of Reimer 1779 in Arends and Perl 1995:374).

This suggests that the use of *sa* as a marker of later time reference survived somewhat later in early Sranan than in Saamaka. If so, it might be attributed to Dutch influence. Van den Berg (2007:196) suggests that

“*sa* expressing predictive and prospective future may have been more common in (late 18th century) *bakratongo*, whereas the construction *de go* conveying these notions may have been associated with (late 18th century) *ningretongo*.”

She cites the following examples from Schumann’s dictionary (glosses and translations are hers).

- (37) a. *da gotro sa kalfe. (bakratongo)*
DET trench FUT collapse
‘The trench will/is going to collapse.’
- b. *da gotro de go brokko. (ningretongo)*
the trench ASP FUT break
‘The trench is going to collapse.’ (Schumann 1783: 78)

Unfortunately, Schumann himself provides no translations of these sentences, nor explanation of what *sa* meant in *ningretongo*, since we have to assume it was also used in that variety. Whatever the facts might have

been, it is at least clear that there was a growing distinction between *sa* and *de/tan go* in later 18th century Sranan and Saamaka. Moreover, as we saw, *sa* developed very different meanings in the two creoles. In the following sections, we attempt to explain the differences in term of stronger and continuing Dutch influence on the use of *sa* in Sranan, and stronger Gbe influence on its use in the Maroon creoles.

5. Dutch influence on *sa* in Sranan

We suggested earlier that *sa* derives from Dutch *zullen*, though English *shall* cannot be ruled out as an alternative source. The meanings and uses of *sa* in modern Sranan in many respects parallel those of its Dutch (and/or English) source. Both can be used to convey dynamic, epistemic and deontic modality.

When used to refer to future events, both *sa* and *zullen* express dynamic modality, that is, they express what seems to be a factual statement that does not involve the attitude or opinion of the speaker (Palmer 1986:102). In cases where the speaker is the agent of the future action, they both convey commitment, which may be construed either as a promise (38), or a threat (39), depending on the circumstances.

(38) a. SN *Efu yu kon tide neti, mi sa gi yu*

if you come today night I MOD give you
a moni, yere.

DET money hear

‘If you come tonight, I shall pay you the money, okay?’

b. DU *Als je vanavond komt zal ik je het*

when you tonight come shall I you the

geld betalen.

money pay

‘If you come tonight, I shall pay you the money.’

(A. Bryun personal communication August 2007)

(39) a. SN *Efu yu no gi mi a moni,*
if you NEG give me DET money
mi sa fon yu.

I MOD beat you

‘If you don’t give me the money, I shall beat you.’

b. DU *Als je me niet betaalt zal ik je*

when you me not pay shall I you

in elkaar slaan.

in each.other beat

‘If you don’t pay me, I shall beat you up.’

(A. Bryun personal communication August 2007)

In cases where someone other than the speaker is the agent of the action, *sa* and *zullen* convey a sense of expectation on the speaker’s part that the event will occur.

- (40) a. SN *Mi p'pa sa yepi yu.*
 my father MOD help you
- b. DU *Mijn vader zal je helpen.*
 my father MOD you help
 ‘My father will help you.’
 (Wendelaar and Koefed 1988:68)

There also seems to be some sense, at least in Sranan, that the agent is under some obligation to act. This may be related to the fact that *zullen*, like its counterparts in other Germanic languages (English *shall*, German *sollen*, Scandinavian *sk*), originally conveyed obligation, and that modal sense still underlies its use today.

This undertone of obligation is also relevant to the fact that both *sa* and *zullen* can be used in both epistemic and deontic senses, to convey probability and requirement (a command) respectively.⁹ The former use is illustrated in the following examples:

- (41) a. SN *Den pikin sa e sribi now(now).*
 DET-pl child MOD IMPFV sleep now
 ‘The children should be sleeping now.’ (=it's very likely they are).
- b. DU *De kinderen zullen nu wel slapen.*
 DET children should now surely sleep

⁹ Though we found no clear examples of the epistemic and deontic uses of *sa* in the early Sranan documents, this does not necessarily mean that they did not exist at the time.

‘The children should be sleeping now.’

(Margot van den Berg, pc April 2008)

This use of present forms of *zullen* to express probability in Modern Dutch seems to be somewhat archaic. Generally, speakers seem to prefer to use a past form of *zullen* e.g. *zoud(en)* ‘should’ or the modal *moet* CHECK in this function (Margot van den Berg, pc, April 2008).

Finally, in certain contexts, both *sa* and *zullen* have deontic force, and convey the sense of a command, as in the following:

(42) a. SN *A pikin sa tan dya tide neti.*
DET child MOD stay here today night

b. DU *De jongen zal vanacht hier blijven.*
DET boy MOD tonight here remain

‘The boy shall stay here tonight.’ (= I’ll see that he does).

(Margot van den Berg, pc April 2008)

(43) a. SN *Alen sa kon tide neti.*
rain MOD come today night

b. DU *Het zal vanavond regenen.*
it MOD tonight rain

‘It shall rain tonight’ (= I command it to rain).

(Margot van den Berg, pc April 2008)

It is interesting that a Sranan and Dutch informant both expressed the view that *sa* seems odd here, since no one can command the weather, except God, as the Sranan informant noted.

To sum up, the use of *sa* to express dynamic modality in modern Sranan parallels its use in early Sranan, though it may have lost its earlier temporal character. The other uses of *sa* in contemporary Sranan, to express epistemic and deontic modality, may have developed more recently, though we cannot be sure that they did not exist in early Sranan. Finally, all three modal meanings of *sa* in modern Sranan seem to have been modeled on the meanings of *zullen*.

6. Gbe Influence on possibility in the Maroon Creoles.

We argue in this section that the system of possibility in the Maroon creoles was shaped primarily by influence from Gbe languages. This explains the use of *sa* in these creoles, as well as several other strategies they use to express possibility. Some of the latter strategies are also found in Sranan.

6.1. Gbe influence on sa.

We offer two possible scenarios that might explain how substrate influence shaped the meanings and uses of *sa* in the Maroon creoles. According to one scenario, argued for in Winford and Migge (2007), the broad use of *sa* in the Maroon creoles is modelled closely on the potential future marker found in Western Gbe languages. Several Gbe varieties, e.g., Ewegbe varieties such as Wacigbe and Anlogbe, as well as Xwelagbe and Xwlagbe, employ a marker of futurity (*lá, á*) which can be used to express notions such as epistemic possibility, root possibility, permissibility, and so on. Essegby (to appear) argues that these markers convey the sense of potential mood in Ewe. For instance, *(l)à* can be used with stative predicates to refer to a possible state of affairs in the present:

- (44) Anlo *ʃevi-a-wo A\$-NO alOdO-m fifia*
 child-DEF-PL POT-AUX:NPRES sleep sleep-PROG now
 ‘The children may be sleeping now.’

It may also be used to refer to a future possibility:

- (45) Anlo *m-a-Áu a!-yi fofo!-nye gbO!*
 1SG-POT POT-go father-1SG place
 ‘I may move to my father’s place.’
 (Essegby to appear:16)

Third, the Potential marker can also be used to convey the sense that it is possible for someone to do something:

- (46) Anlo *á-xlé agba-lê mábbeee* (2004 p. 10)

you-POT-read book that easily

‘You can read that book easily.’

In this case, Essegy comments that “this sentence does not make predictions about a state of affairs to come. Instead, it suggests that the addressee is in a position to read the book without difficulty” (To appear, p. 11). Our elicited data also contain examples in which notions like ability (47), and permissibility (48) are expressed by *(l)a* or its cognates.

(47) Wací ‘! s’N NtOꞑ ya! kO kilo ka!v’ꞑkuwu’i!
he strong very he-FUT lift kilo 40x2+20
‘He is very strong; he can lift a hundred kilos.’

(48) Xwela nE!o hE!n O, o la! lE le!le! gO
if you want PART you FUT for amuse with
xi! ha! lE.
your friend PL
‘If you want to, you can play with your friends.’ (E11b)

This range of meanings closely resembles that expressed by *sa* in the Maroon Creoles. In all these cases, what seems to be expressed by the modal auxiliary is the sense of something that is possible, or a potential

situation – a sense which may be interpreted in the various ways described above. These similarities suggest that *sa* in the Maroon creoles might have been modelled after the Potential future marker of Western Gbe varieties.

An alternative scenario to explain substrate influence on the expression of possibility in the Maroon creoles is offered in Migge (2006). She argues that *sa* is modelled on the Gbe modals of possibility like *teŋu*, *tiŋ*, *ten*, *sixu*, etc, which express a range of meanings quite similar to that of *sa* in the Maroon Creoles, including physical ability (49), root possibility (50), permission (51), and epistemic possibility (52).

(49) Xwla e jO asu. e tEn kO kilo kOnwewi.

he be man he MOD lift kilo 100

‘He is very strong, i.e. acts like a man. He can lift 100 kilos.’

(50) Xwla e tEn luter na EmE-bu ya.

he can fight PREP person-other EMPH

‘He can fight for someone else.’

(51) Xwla evi O tEn nO fi xwesa xeO.

child DET MOD stay here night this

‘The boy may stay here tonight.’

(52) Xwla Jan tEn le OÙxweÚmE siÙEÚ.

Jean can COP house now

‘Jean may be at home now.’

The correspondences between the Gbe markers of possibility and *sa* suggest that the latter may have been modeled on the former.

6.2 *Gbe influence on other aspects of possibility.*

In addition to *sa*, other devices used to express possibility in the Surinamese creoles also have counterparts in Gbe. For instance, like the creoles, several Gbe varieties (Aja, Xwela, Xwla) employ different auxiliaries to express possibility in negative contexts from those used in positive contexts.¹⁰

(53) a. XwlaNyOÚnuÙ xeÙOÙ uÚn ·oÚ OÙNkuÚsiÙ oÙ,
uÚn kpeÚ-ji ÚaÚ

woman DEM NEG have eye NEG NEG can FUT

kpOÚn miÙ oÙ.

see us NEG

‘This woman is blind. She cannot see us.’

b. Xwela IviÚ IOÚ goÚ kpego laÚ nO xye ·eÚ hwedoÚ

child DET NEG can FUT stay here LOC night

eÙ.

NEG

‘The child cannot stay here tonight.’

¹⁰Other Gbe varieties (Gen, Gun, Waci, Maxi) employ the same modal in both positive and negative contexts like Saamaka (cf. Migge 2006: 40ff).

The auxiliaries used to express negative possibility derive from a construction expressing physical strength, or the sense of having achieved manhood (cf. Migge 2006: 49).

- (54) Aja *sE)-Nu*
 be hard/be strong-body
- Xwla/Waci *kpé-é-ji*
 reach-its-summit/top
- Maxi *kpé-e-ewu!*
 reach-its-body
- ‘be strong’ (Capo, p.c. 2003/Aboh p.c. 2004)

We suggest that the uses of *man* (in Sranan) and *man* and *poy* (in Pamaka and Ndyuka) were modelled on these modals (cf. Migge 2006).

Another similarity between the creoles and Gbe languages is that they all express epistemic possibility in negative contexts by means of a periphrastic construction translatable as ‘it can be that.’

- (55) a. Waci «Ú ti!NÚnyi! b«Ú Ko@fiÚ ýuÛ-naÛ nu!
 cu! *sa)Ú.*
- it can COP that name eat-HAB thing all before
- ‘It is possible that Kofi was greedy before’ (Capo, p.c.)

Nov. 2003)

All of these similarities in the expression of possibility in Gbe and the Maroon creoles suggest that substrate influence played an important role in the emergence of this area of the creoles' grammar. The differences between Sranan and the Maroon creoles seem to be due to the fact that Dutch had stronger influence on the former, while Gbe had stronger influence on the latter.

7. Conclusion.

To sum up, the emergence and development of possibility in the Surinamese creoles followed quite different paths in Sranan as opposed to the Maroon creoles. A variety of factors contributed to these differences, the most significant of which appears to have been the degree to which Dutch as opposed to the Gbe languages influenced the respective creoles. The strong influence of Dutch in Sranan, evident even in the early texts, led to a system in which *kan* expressed most types of root possibility, supplemented by *and mag* for permission. Later internal developments, possibly aided by Gbe influence, led to the emergence of *man* as a marker of physical ability. Gbe influence on the Maroon creoles, on the other hand, led to a system in which all types of possibility were subsumed

under the modal *sa*, which became a marker of Potential mood. Ndyuka and Pamaka also employed *poy* and *man* respectively, to express the sense of ability under negation. The use of *sa* in the Maroon creoles contrasts strongly with its use in Sranan, where it conveys meanings quite similar to those of Dutch *zullen*. Finally, Gbe seems to have provided a model for other devices used to express epistemic possibility, such as the expression ‘it can be that.’

Our study has shown that the grammars of the Surinamese creoles continued to evolve over time, in accordance with Arends’ gradualist hypothesis. The combined effects of Superstrate and substrate influence, and internal factors, interacting with each other in different ways and at different times, all contributed to the creation and development of the grammar of possibility in the Surinamese creoles.

The changes that occurred in the systems of possibility over time present a challenge to any attempt to reconstruct the historical processes that led to the present state of affairs. Our investigation leaves many questions unanswered. For instance, what circumstances led to the more pervasive influence from Gbe languages on the Maroon creoles? Were there greater similarities between the earlier forms of Sranan and the earliest forms of the Maroon creoles? What similarities and differences were there between *ningretongo* and *bakratongo*, and how did each variety affect the later development of Sranan? What part did internal

development, such as the emergence of future o, play in shaping the use of sa after the 18th century? And finally, what light can the answers to all of these questions shed on the historical relationships among the creoles, and how each evolved in its own ecological setting? These are all important issues that future research will need to address. The present study, we hope, provides a foundation for such future investigation.

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