UC Berkeley

Dissertations, Department of Linguistics

Title

Caribbean Northern Arawak Person Marking and Alignment: a Comparative and Diachronic Analysis

Permalink

https://escholarship.org/uc/item/1t88q9xz

Author

Stark, Tammy

Publication Date

2018-04-01

Caribbean Northern Arawak Person Marking and Alignment: a Comparative and Diachronic Analysis

By

Tammy Elizabeth Stark

A dissertation submitted in partial satisfaction of the

requirements for the degree of

Doctor of Philosophy

in

Linguistics

in the

Graduate Division

of the

University of California, Berkeley

Committee in charge:

Professor Lev Michael, Co-Chair Professor Line Mikkelsen, Co-Chair Professor Kristin Hanson

Spring 2018

Abstract

Caribbean Northern Arawak person marking and alignment: a comparative and diachronic analysis

by

Tammy Elizabeth Stark

Doctor of Philosophy in Linguistics

University of California, Berkeley

Professor Lev Michael, Co-Chair

Professor Line Mikkelsen, Co-Chair

This dissertation examines morphosyntactic variation and change in the modern Caribbean Northern Arawak (CNA) languages in the domains of argument-marking and alignment. CNA is the northernmost group of the Arawak language family, whose members are spoken primarily in South America. The modern CNA languages include Garifuna, Lokono, Añun, and Wayúu, spoken on the Caribbean coasts of Central and South America. Members of the subgroup that are currently not spoken include Shebayo, Island Carib, and Taino.

Chapter 1 of this work introduces the CNA languages and provides background information about current language vitality and documentation status for each CNA language. In this chapter, I also discuss internal subgrouping for the branch, incorporating the results of a lexical phylogenetic study I carried out for the CNA languages. I then compare the results to earlier classifications of the language family and show that my novel subgrouping proposal is well supported. Subsequently, I examine comparative morphological evidence for subgrouping and find it to be compatible with the structure I propose. The chapter concludes with a description of argument marking and active-stative alignment in the CNA languages.

Chapter 2 examines a process of alignment change attested in the CNA languages that has been facilitated by the reanalysis of a suffixal subject nominalizer employed in relative clauses as agreement morphology encoding a syntactic subject. Properties of the modern subject construction are related to properties of nominalizations cross-linguistically. Nominalized verbs in predicate position in non-verbal predicate constructions are proposed as a bridging construction in this reanalysis, and a suffixal paradigm involved in encoding objects and stative subjects is shown to have provided an analogical template for the reanalysis of the nominalizer as agreement morphology for at least Garifuna. Finally, I demonstrate that the sole CNA language that does not exhibit the suffixal subject agreement construction, Lokono, exhibits properties that rule out the diachronic pathway I propose for the other CNA languages — only those CNA languages that lack a copula and exhibit verb initiality developed the suffixal person marking morphology examined here.

Chapter 3 investigates a shift in lexical category from adposition to auxiliary in two Northern Caribbean Arawak languages, Wayúu and Garifuna. While the emergent auxiliaries bear striking similarities in terms of distribution and argument marking — both occur post-verbally and carry prefixal and suffixal verbal agreement morphology — I argue that the innovation is not joint, but independent. I draw on comparative evidence from the adpositional systems of the other modern CNA languages to support my proposal. While Garifuna and Wayúu share a similar typological profile, comparative morphological evidence, along with extant knowledge of relatedness for the family, generally, suggests they do not form a subgroup independent of the other Caribbean Northern Arawak languages, providing support for an analysis where each language independently innovated its auxiliary system. As in the case of the development of suffixal person morphology, properties of proto-CNA appear to have made such a development available. The change from adposition to auxiliary is typologically rare, and has not been previously described or analyzed in the literature on grammaticalization. I argue here that insubordination and analogy are the formal mechanisms that allowed for this change in the CNA languages.

Chapter 4 concludes and discusses avenues for future comparative morphosyntactic research involving the CNA languages.

Contents

L	st or	rigur	es	V
Li	st of	Table	s	viii
A	ckno	$\operatorname{wledg} \epsilon$	ements	х
A	bbre	viation	as	xi
1	Inti	roduct	ion	1
	1.1	Arawa	ık	3
	1.2	The C	Caribbean Northern Arawak group	6
	1.3	CNA	subgroups and lexical phylogeny	8
		1.3.1	Dataset collection	9
		1.3.2	Form-meaning correspondence sets	11
		1.3.3	Phylogenetic analysis	11
		1.3.4	Structures returned from lexical phylogenetic analysis and discussion	12
		1.3.5	Comparison with previous classifications	12
		1.3.6	Comparison with previous studies using lexical phylogeny	17
		1.3.7	Summary and discussion	18

	1.4	Person	n marking and alignment in Caribbean Northern Arawak	18
2	Nor	ninaliz	zation and alignment change in Caribbean Northern Arawak	25
	2.1	Introd	luction	25
	2.2	Suffix	al subject marking in Caribbean Northern Arawak	26
	2.3	The C	CNA subject nominalizer and its reflexes	30
		2.3.1	Clausal nominalization	30
		2.3.2	Subject nominalizer and cognacy across the CNA languages	31
		2.3.3	Summary	39
	2.4	Non-v	erbal predication in CNA	39
	2.5	Diach	ronic development	46
		2.5.1	Proto-CNA syntactic constructions	47
		2.5.2	Information structural properties of copular clauses and nominal predication	51
		2.5.3	Diachronic pathway from relativizer to agreement	54
	2.6	Concl	usions	60
3	Aux	kiliatio	n and ergativity in Caribbean Northern Arawak	61
	3.1	Introd	luction	61
	3.2	Marki	ng of core arguments on loci other than lexical verbs in CNA	66
		3.2.1	Summary	83
	3.3	Histor	rical development of Garifuna and Wayúu auxiliaries	84
		3.3.1	Insubordination	85
		3.3.2	Analogy	88

	3.4 Conclusions	93
4	Conclusions and future research	95
В	ibliography	96

List of Figures

1.1	Currently-spoken Arawak languages	4
1.2	Arawak subgrouping according to Aikhenvald (1999)	Ę
1.3	The Caribbean Northern Arawak languages	6
1.4	Proposed structure for Caribbean Northern Arawak	ć
1.5	Classification from BEAST	13
1.6	Traditional internal subgrouping for Caribbean Northern Arawak (Taylor and Rouse, 1955)	13
1.7	Proposed structure for Caribbean Northern Arawak with posterior probabilities, adapted from Walker and Ribeiro (2011)	17
3.1	Garifuna analogical reanalysis	65
3.2	Wayúu analogical reanalysis	65

List of Tables

1.1	Languages included in the lexical phylogenetic analysis and percent coverage	10
1.2	Sample character state coding for the word pepper	11
1.3	Northern Arawak free pronouns	14
1.4	Northern Arawak prefixal person markers	15
2.1	Summary of suffixal person marking in CNA	29
2.2	Reflexes of the nominalizer	32
2.3	Caribbean Northern Arawak coronal correspondences	32
2.4	Caribbean Northern Arawak high vowel correspondences	33
2.5	Garifuna nouns exhibiting the frozen nominalizer	34
2.6	Garifuna kinship terms exhibiting the frozen nominalizer	34
2.7	Lokono nouns exhibiting the frozen nominalizer from Pet (1987)	36
2.8	Lokono kinship terms exhibiting the frozen nominalizer from Pet (1987)	37
2.9	Wayúu nouns exhibiting the frozen nominalizer	37
2.10	Añun nouns exhibiting the frozen nominalizer	38
2.11	Summary of the distribution of the subject nominalizer in the CNA languages	39
2.12	Summary of nominal predication in CNA	46
2.13	Northern Arawak word order	48

2.14	Northern Arawak copulas	50
2.15	Information structure in copular clauses	52
2.16	Garifuna -dina suffixal person marking paradigm	55
2.17	Garifuna -tina suffixal person marking paradigm	55
2.18	Añun and Wayúu suffixal person markers unrelated to the relativize nominalizer	58
2.19	Añun and Wayúu suffixal person markers related to the relativize nominalizer	59
2.20	Caribbean Northern Arawak set 2 coronal correspondences	59
2.21	Caribbean Northern Arawak set 3 coronal correspondences	59
3.1	CNA adpositions with auxiliary uses and their cognate forms	64
3.2	Lokono adpositions related to body part terms	68
3.3	Wayúu adpositions with auxiliary uses	74
3.4	Garifuna adpositions	79
3.5	Summary of auxiliary person marking, adapted from Kaufman (2010)	80
3.6	CNA adpositions with auxiliary uses and their cognate forms	84
3.7	Summary of auxiliary person marking adapted from Kaufman (2010)	90

Acknowledgements

This thesis would not be possible without the support of my dissertation committee. Lev Michael and Line Mikkelsen have equally and complementarily advised me over the course of my tenure at Berkeley, and the positive attributes of my work are very much a product of their influence. Lev's knowledge of Arawak and of South American languages generally cannot be overstated, and it is entirely due to him that I developed an interest in the Arawak language family to begin with. My first job as an academic linguist involved carrying out morphological data harvesting for the Arawak languages as Lev's research assistant in 2009. Since that experience, he has remained committed to helping me develop as an academic, reading and commenting on countless drafts of my work, and advising me in field methods and analysis. Similarly, Line came into my life as an academic advisor early in my time at Berkeley. Her commitment to helping students develop analyses for under-described languages has been integral to my academic success. Line has a gift for finding insight and clarity in sometimes messy data, and her advice has consistently improved my work. Like Lev, she's read and commented on countless drafts of my work, and she has done so tirelessly and thoughtfully. For both Lev and Line, my advising has necessitated a great deal of morale boosting, and the sometimes irrational commitment to the idea that I belong in academia, both somewhat outside the traditional bailiwick of academic supervisors, and I'm extremely grateful they were both willing to encourage me to continue. Kristin Hanson is an extremely supportive external committee member, and I'm grateful for the alternative perspective she brought to my work, both in terms of analysis and in terms of my progress as a graduate student. I could not have hoped for a more supportive, compassionate, and encouraging dissertation committee, and I am very grateful.

Much of the language data that appears in this thesis comes from work I carried out with Garifuna speakers Tim Palacio and Carlos Domingo Álvarez. Both are gracious and generous teachers, and I am grateful for their knowledge, time, and patience. Tim and Carlos care deeply about the Garifuna language and its speakers, and I am inspired by the work they do. Language data presented here also comes from speakers of Arawak languages who were willing to share their time and knowledge with other linguists. I am very grateful to these speakers, as well as to those linguists who have made this knowledge available in grammars, dictionaries and other works. Comparative morphosyntax depends on the availability of such resources, and I am grateful these exist. My engagement with the Caribbean Northern Arawak languages began as result of a 2011-2012 field methods course led by Lev Michael.

I am grateful to him and the other members of that course, Chundra Cathcart, I-hsuan Chen, Emily Cibelli, Kristin Hanson, Shinea Kang, Eric Prendergast, Christine Sheil, and Elise Stickles, for the descriptive and analytical work carried out there, and for leading my research in the direction it has taken. Additionally, my undergraduate research assistant, Sophie Kohne, contributed to the dissertation by carrying out data harvesting, translation, and analytical tasks that improved the quality and timeliness of my thesis. Apart from his role in the Garifuna field methods course, Chundra Cathcart contributed significantly to my dissertation, especially with his assistance in computational modeling at several stages of the project. I am very grateful for his help and support.

At Berkeley, my work product, my general wellbeing, and my happiness were supported and improved by the graduate students and faculty members in the department. I especially thank Nicholas Baier, Sarah Bakst, Kayla Begay, Chundra Cathcart, Will Chang, Jessica Cleary-Kemp, Oana David, Erin Donnelly, Andrew Garrett, Sharon Inkelas, Florian Lionnet, Kelsey Neely, Zachary O'Hagan, Eric Prendergast, Daisy Rosenblum, and Christine Sheil for their friendship and interest in my work over the years (with apologies to the important people I know I've forgotten to thank). Sharon Inkelas and Andrew Garrett have been deeply involved in creating a welcoming and positive environment in the Department of Linguistics at UC Berkeley. I am lucky to know them, and UC Berkeley is lucky to have them. Additionally, I have been particularly supported by Jessica Cleary-Kemp and Christine Sheil. I am grateful to them both for feeding me, listening to me, helping me with childcare, and modeling a healthy work-life balance.

Finally, support from my family has allowed me to make decisions and take risks that I could not have without them. My son, Harold, has offered me patience, companionship, understanding, and love throughout my time as a graduate student. I am more grateful than I can express for his presence in my life. Having Harold helped me to decide to pursue my education in the first place, and his precocious level of compassion and patience toward me has allowed me to sometimes provide him with less attention than he deserves to engage in my work. I am also grateful that he has developed into a person I so enjoy spending time with, and that he still likes to spend time with me, even though he is now a teenager. My siblings, Rebecca, Laura, Rachel, and Garren are of critical importance to me. Their belief in my success has been unwavering throughout my life, and especially in graduate school. Each of them is remarkable in their own right. Collectively, they anchor me and provide me and Harold with a deep and loving sense of family. I could not have better role models or friends, and I recognize what a gift that is. My father, Greg, his wife, Cindy, and my mother, Shirley, have all uniquely contributed to my success, and I'm grateful to them, as well.

Abbreviations

1	first person	FUT	future
2	second person	INAN	inanimate
3	third person	INSTR	instrumental
PL	plural	LOC	locative
SG	singular	MAL	malafactive
F	feminine	MASC	masculine
M	masculine	MS	masculine speech
AOR	aorist	MULT	iterative
ASP	aspectual morphology	NEG	negation
AT	attributive	NF	nonfeminine
AUM	augmentative	NOMZ	nominalizer
AUX	auxiliary	PASS	passive
BEN	benefactive	PERF	perfective
CAUS	causative	PL	plural
COM	comitative	POSS	possessive
COMP	complementizer	PRES	present
CONT	continuative	PRIV	privative
DAT	dative	PROC	in process
DECL	declarative	PROG	progressive
DEF	definite	PST	past
DEM	demonstrative	REL	relativizer
DET	determiner	SUB	subordinate
DIST	distal	SUPR	superessive
FOC	focus	TOP	topic
FS	feminine speech	VIS	visual evidential

Chapter 1

Introduction

This work examines issues of structural inheritance, variation, and change in the grammars of the languages of the Caribbean subgroup of Northern Arawak (CNA), with a focus on the members of the branch still spoken today: Lokono, Añun, Wayúu, and Garifuna.¹

Major contributions of this work are 1) a novel internal classification for Caribbean Northern Arawak based on lexical phylogenetics, and supported by previously unobserved morphological evidence, and 2) a close analysis of two patterns of morphosyntactic change in the CNA languages. The Arawak languages (and indeed, many languages of South America) generally exhibit subordinate structures that are analyzable as nominalizations — that is, verbs in subordinate clauses carry morphology that serves the function of morphologically deriving nouns from verbs (Campbell and Grondona, 2012). I show here that at least two patterns of argument marking found in CNA main clauses have developed from the reanalysis of such structures as main clauses. Nominalized relative clauses have been reanalyzed as main-clause verbal predicates carrying suffixal agreement morphology, and main clause auxiliaries have developed their modern argument-marking patterns from subordinate-clause constructions. The former change allows for any syntactic subject to be morphologically encoded by a verbal agreement suffix in some circumstances. This change neutralizes a robust pattern of active-stative agreement marking, where the subject of a transitive verb and the subject of an active predicate are normally encoded prefixally for the CNA languages. The latter change has led to the main clause use of auxiliaries for Garifuna, and to the development of auxiliaries from adpositions in this language. This auxiliation has also resulted in an ergative alignment pattern for argument marking on auxiliaries. Only the subject of a transitive predicate is marked prefixally on Garifuna auxiliaries. I also show that Wayúu has undergone a similar change in its grammar, though insubordination seems not to have played a role. These historical changes are of broad typological interest because they are not well attested

¹The language data in this thesis comes either from my joint elicitation and analysis with my colleagues at UC Berkeley in collaboration with Garifuna speakers, or from published sources. Citations for examples are given throughout. I maintain the original author's glossing conventions and orthography except when I compare phonological forms for the purpose of reconstruction.

in the literature, but there is strong morphological evidence for their occurrence in the history of the CNA languages.

The development of ergative alignment is generally thought to be facilitated by passivization—generally, an oblique marker that reintroduces an external argument is reanalyzed as ergative case, and subject marking for a promoted object is reanalyzed as absolutive marking (Garrett, 1990). For Garifuna and Wayúu, passivization has played no role in the development of ergative alignment in their auxiliary systems. Instead, for Garifuna, I argue that the main clause use of subordinate clause structures allowed for the extension of subordinate clause argument marking patterns to main clauses, resulting in ergative alignment. For Wayúu, I argue the analogical extension of verbal argument-marking patterns to adpositions must have played a role in the development of auxiliaries.

Insubordination appears to be a strong driver of syntactic change in the South American context. For the Cariban languages, spoken in close proximity to the CNA languages, Gildea (1998) shows that ergative alignment also emerged without an intermediate step of passivization, though the trajectory differs from the one I propose for CNA here. While such a development is attested in languages outside South America, it is not observed to be cross-linguistically common (Garrett, 1990). The fact that ergative alignment has developed similarly in at least two language families spoken in such close proximity suggests the possibility that language contact may have played a role. Given that the CNA languages are similar in typological profile to many other South American languages, I expect close comparative studies of variation in the person marking and alignment systems of other languages families of South America, and in other branches of Arawak, in particular, to reveal similar patterns of change. The CNA languages, and many other languages of South America, are strongly head marking, and it is areally very common for subordination to be carried out via nominalization (Campbell and Grondona, 2012). I suspect that these two typological traits taken together make the changes in argument marking patterns examined here highly available for these languages.

Aside from the investigation into mechanisms active in argument marking and alignment change in CNA, this dissertation advances methodologically rigorous comparative studies of the Arawak language family. While Arawak has long been widely accepted as a linguistic group, and while there is reasonable consensus about the classification of many low-level groups, there is lack of consensus about the internal structures of these groups, and about how they are related to one another. Additionally, studies that employ the comparative method in reconstructing the phonological inventory and pronominal systems of proto-Arawak have been received cautiously by experts in the family, mainly due to a lack of complete descriptions of the Arawak languages.²

Much high-quality descriptive work has been carried out for the languages of the Arawak

²For example, Payne (1991a) points out that Matteson (1972), while more principled than earlier reconstructions of Arawak, relies on underdeveloped phonological analyses of Arawak languages to diagnose cognacy. Kaufman (1994) makes similar criticisms of (Valenti, 1986)).

family over the last several decades. Combined with the burgeoning availability of rigorous reconstructions of these systems for subgroups of the family, this situates researchers to address this state of affairs. The lexical phylogenetic work presented here is a step toward understanding the internal structure of Arawak generally, and one being taken for other branches of Arawak by other linguists. The creation of a large comparative wordlist and cognate sets for this group of Arawak will advance a reconstruction of the phonological inventory of proto-CNA, moving a phonological reconstruction for proto-Arawak up a branch in the tree. Additionally, collaboration with other Arawakanists in creating similar datasets for other branches of Arawak will eventually allow for a much larger-scale lexical phylogenetic analysis. Finally, the analyses in Chapters 2 and 3 rely on the branching structure produced by the lexical phylogenetic analysis presented in this chapter, and claims of cognacy across morphological data presented here rely on the correspondence sets built on the basis of cognates identified for the phylogenetic analysis.

The rest of this chapter provides an introduction to the Caribbean group of Northern Arawak, its languages, and its position within the larger Arawak language family. I propose a novel branching structure for CNA on the basis of a lexical phylogenetic study I carried out in support of the comparative morphosyntactic work described in the rest of the thesis. I additionally describe active-stative alignment for the modern CNA languages because Chapters 2 and 3 rely on a basic knowledge of this alignment pattern for their analyses. Chapter 2 examines a suffixal agreement pattern that I argue has developed from a suffixal subject nominalizer in three of the four CNA languages: Añun, Wayúu, and Garifuna. Chapter 3 examines patterns of agreement involving auxiliaries for the CNA languages, and the historical processes involved in auxiliation in these languages.

1.1 Arawak

The Arawak language family is the largest linguistic group in South America, with some fifty living members. The Arawak languages are geographically widespread, with members of the family distributed from the Caribbean coast of Central America, to the south of Brazil, to the western part of Peru, and to the Atlantic coast of northern Brazil. Locations for the currently-spoken members of the family are labeled in Figure 1.1, with locations for the non-CNA Arawak languages shown in grey.

Subgrouping within Arawak has been based partly on geographically defined groups, along with low-level comparative studies of languages in the family, resulting in a rake-like structure with well-established low-level clades that all connect to a single ancestor language. Following Michael (2011), I adopt Aikhenvald's (1999) proposed internal branching for Arawak, shown in Figure 1.2, as a starting point for the comparative work presented here. This decision is also supported by other work carried out in lexical phylogenetics (Walker and Ribeiro, 2011), as discussed in §1.3 of this chapter. This structure has implications for the languages for which lexical data was included in the phylogenetic analysis of CNA — Aikhenvald (1999)

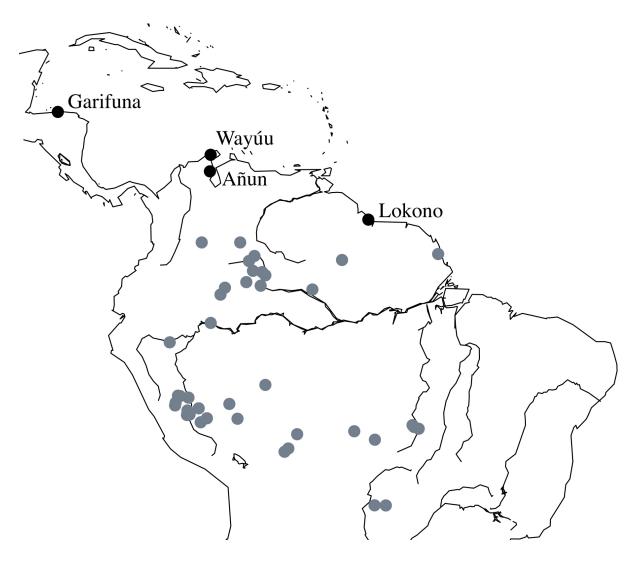


Figure 1.1: Currently-spoken Arawak languages

proposes five subgroups within Northern Arawak, and one language from each of the non-CNA groups was included in the study as outgroup languages.

The group under study here is the Caribbean group of Northern Arawak, whose currently spoken members include Garifuna, Lokono, Wayúu, and Añun. Outgroup languages sampled in this work for lexical phylogeny include Wapishana, Palikur, Achagua, and Baniwa, representing Aikhenvald's Rio Branco, Palikur, Colombian, and Rio Negro branches of Northern Arawak, respectively. Data from other Arawak languages appears throughout this work when morphological evidence from outgroup languages is relevant to the analysis.

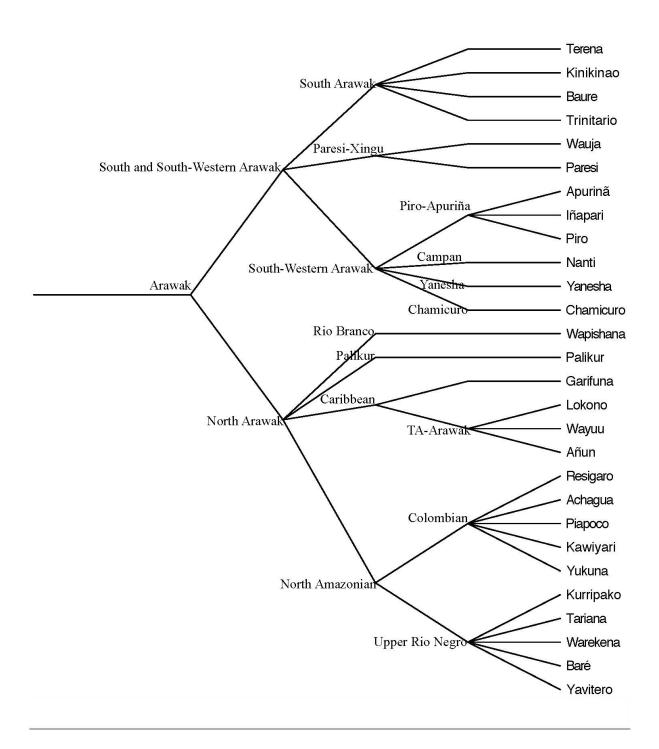


Figure 1.2: Arawak subgrouping according to Aikhenvald (1999)

1.2 The Caribbean Northern Arawak group

The Caribbean³ group of Northern Arawak is composed of languages historically spoken along the Caribbean coasts of Central and South America and the Antilles Islands, namely Taino†, Island Carib†, Garifuna, Shebayo†, Lokono, Añun, and Wayúu. The locations of the Caribbean Northern Arawak languages are shown in Figure 1.3.

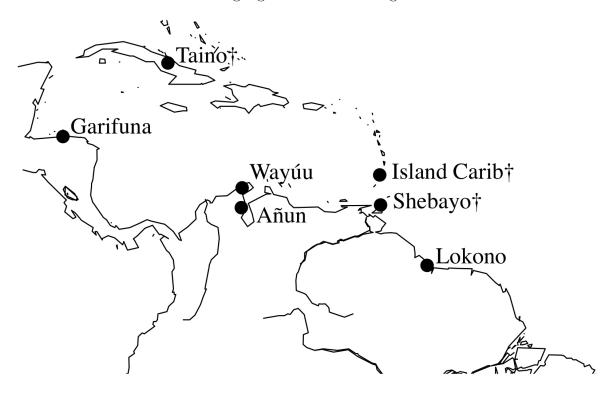


Figure 1.3: The Caribbean Northern Arawak languages

Taino, Island Carib, and Shebayo are not currently spoken, and have limited documentation: a few wordlists for Taino, a single wordlist containing 17 items for Shebayo (Aikhenvald, 1999), and a colonial-era grammatical sketch, dictionary, and catechism for Island Carib (Breton, 1900).

At the time of European contact, Taino was spoken throughout the Greater Antilles islands (modern-day Cuba, Jamaica, Haiti, and the Dominican Republic). Shebayo was spoken in Trinidad, just off the north-eastern coast of Venezuela. The arrival of the Spanish in the late 15th century led to the rapid and complete loss of both these languages (Rouse, 1993). Island Carib, historically spoken on the Lesser Antilles islands fared much better, surviving into the early part of the 20th century on the island of Dominica (Taylor, 1935).

Garifuna is spoken today by somewhere between 100,000-200,000 people around the world

³This group of Arawak is also referred to as "Circum-Caribbean" (Walker and Ribeiro, 2011; Payne, 1991a), "Maritime" (in which case it also contains Wapishana) (Campbell, 2012), and "Caribbean-Venezuela" (Ramirez, 2001).

(Lewis et al., 2016). Directly descended from a variety of Island Carib spoken in St. Vincent, Garifuna is now spoken along the Caribbean coast of Central America, spanning across Nicaragua, Honduras, Belize, and Guatamala, and by diaspora speakers throughout the United States. The Garifuna people have experienced a history of contact that is reflected by their language, which contains loanwords from at least Kaliña (Cariban), Spanish, French, and English.

The Arawaks native to the Lesser Antilles were in contact with Cariban groups prior to European contact, intermarrying with Cariban men who arrived there around the 12th century, resulting in the name *Island Carib* for the group. During the 17th century, escaped Africans transported to the Caribbean during the slave trade intermarried with the Island Carib people of St. Vincent, and in the late 18th century, black speakers of Island Carib were forcibly exiled from St. Vincent to the coast of Honduras by British colonial forces (Taylor, 2012). The name *Garifuna* is derived from the native words meaning 'Carib' and 'red'. Documentation of Garifuna has been carried out with diaspora speakers in the United States by several linguists, including Pamela Monroe and Daniel Kaufman (Kaufman, 2010; Munro, 2007, 2014). In-situ documentation has been carried out in Honduras by at least Douglas Taylor and Steffen Haurholm-Larsen (Taylor, 1951, 1977; Haurholm-Larsen, 2015, 2016). Community language activists have been successful in creating two extensive dictionaries of the language (Cayetano, 1993; Reyes, 2012), as well as teaching materials for language learners.

Lokono is endangered — the language is reported to have some 700 remaining speakers, living near the northern Atlantic coast of South America in communities across the Guianas, Suriname, and Venezuela. Fluent speakers of Lokono are generally over fifty (Lewis et al., 2016). Extant documentation of the language includes a dictionary (Patte, 2011) and several descriptive articles by Marie France Patte, as well as a grammar of the language by William Pet (Pet, 1987), and a recent PhD dissertation on Lokono by Konrad Rybka (Rybka, 2016).

Anûn is still spoken by a handful of people living in northwestern Venezuela near the Colombian border, and revitalization efforts are in place to teach Añun as a second language (Álvarez, 2008). Extant documentation includes a grammatical sketch by Marie France Patte (Patte, 1989), updated by José Álvarez in 2008 for language teaching purposes, as well as a dictionary (Álvarez and Bravo, 2008).

Wayúu remains widely spoken along the northwestern coast of Colombia. Ethnologue estimates that Wayúu is still spoken by some 122,000 people (Lewis et al., 2016). Grammatical descriptions of varying degrees of thoroughness are available for Wayúu (Zubiri and Jusayu, 1978; Uriana and Ipuana, 2000; Ehrman, 1972). These have been updated by the language maintenance work that José Álvarez has carried out in Wayúu communities (Álvarez, 2014). There are also dictionaries of the language available (Captain and Captain, 2005; Jusayu and Zubiri, 1981).

1.3 CNA subgroups and lexical phylogeny

A major contribution of this dissertation is a principled analysis of internal subgrouping for the Caribbean Northern Arawak languages based on lexical data. Since the rest of the dissertation tracks morphosyntactic variation and change within this group, understanding internal subgrouping for the clade allows for a better understanding of morphological retentions and innovations within the CNA languages. In this section, I motivate the structure in Figure 1.4 for the CNA languages on the basis of a Bayesian phylogenetic analysis of lexical data for the group. I then compare this structure with extant classifications of the language family.

Computational phylogenetics is a methodology that has been adapted from biology for linguistic purposes. Computational phylogenetics infers linguistic relatedness on the basis of form-meaning correspondence sets⁴ formed from shared vocabulary items by exploring a space of genealogical trees of varying topologies. Non-Bayesian approaches, such as parsimony and maximum likelihood methods, return a tree which best fits the data, according to optimization criteria such as minimizing the number of independent innovations in the tree, or with parameters that best fit the data (see Warnow and Nichols 2008 for details). Some phylogenetic methods also infer a time depth for divergence between clades or languages on the basis of expected rates of lexical change. Bayesian phylogenetic methods make prior assumptions regarding the parameters of the tree, and use Markov Chain Monte Carlo (MCMC) to explore and sample from the posterior distribution of possible tree topologies, accepting or rejecting a proposed topology according to whether or not it is more likely to have generated the observed data. The tree sample can be summarized in a number of ways, including one that results in a maximum clade credibility tree, which assigns a probability to each clade or subgroup in the tree according to how often it appears in the sample.

The methodology relies on parallels between linguistic and biological evolution, and has proven extremely useful for investigations of genealogical relationships among languages on the basis of lexical data (Chang et al., 2015; Michael et al., 2015; Bowern, 2010; Gray and Atkinson, 2003). The comparative morphosyntactic analyses in the chapters that follow assume the genealogical relationships reported here.

The structure proposed here reproduces low-level subgroups that are well supported by studies that apply the comparative method rigorously across closely-related languages (cf. §1.3.5), but it differs significantly from the received view of the internal structure for these languages with respect to the placement of Taino, which is traditionally thought to form a subgroup with Lokono, Añun, and Wayúu to the exclusion of Garifuna. The phylogenetic analysis carried out here is consistent with the structure produced in Walker and Ribeiro (2011)'s phylogenetic analysis with higher posterior probabilities assigned to clades with low probabilities under their analysis. I compare the structure in Figure 1.4 with extant classifications of the subgroup in §1.3.5, and I point to some methodological weaknesses in

⁴Form-meaning correspondence sets differ from traditional cognate sets in that cognate vocabulary items are only grouped if they exhibit the same meaning across languages, leaving out vocabulary items that have undergone semantic shift.

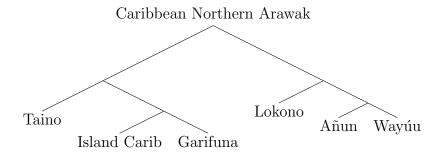


Figure 1.4: Proposed structure for Caribbean Northern Arawak

previous classifications for the group.

1.3.1 Dataset collection

For the lexical phylogenetic analysis of the CNA languages, a 736 item word list was collected for the four living CNA languages, as well as the four outgroup Northern Arawak languages included in the study (Wapishana, Palikur, Baniwa, and Achagua). Lexical data for the languages with limited documentation, Taino and Shebayo, were included where available; 125 Taino lexical items made it into cognate sets based on four colonial-era word lists for the language, and sixteen items for Shebayo were included in the initial study.⁵

The languages included in this study were chosen either because they are grouped as members of Caribbean Northern Arawak in extant classifications of Arawak, or because they are closely related outgroup languages, used for rooting. For this study, one language was sampled from each branch of Northern Arawak according to Aikhenvald (1999)'s classification of the language family (shown in Figure 1.2).

The meanings for the vocabulary items used in this study are from an expanded Swadesh list with basic vocabulary items, including terms for body parts, kinship, material culture, and flora and fauna native to South America. The list was developed by the Tupí-Guaraní group at UC Berkeley run by Lev Michael (Michael et al., 2015), and expanded for lexical work on the Tukanoan languages. The lexical items added for Tukanoan added subtle semantic distinctions for verbs, such as 'break in half' versus 'break into many pieces', distinctions relevant for lexical selection in Tukanoan. Many of these semantic distinctions are not relevant for the Northern Arawak languages, either because the same term was used across these subtly different meanings, or because no cognate terms were found across any of the ten languages included in this study for these meanings. Meanings from either of these two

⁵The data from Shebayo was omitted from the final analysis; fourteen of the sixteen vocabulary items available for the language were cognate across all the Caribbean Northern Arawak languages, and a single lexical item shared a cognate with Taino, only, with which it is very likely not closely related. The paucity of data for Shebayo led to a topological structure that is not well supported by comparative reconstruction or the historical record, and posterior probabilities for the clades produced by this analysis were low (.4 or under).

categories were excluded from the final phylogenetic analysis, resulting in a list of 494 core meanings for the CNA languages, and 2,238 cognate sets.

Table 1.3.1 shows the list of languages included in this study and the percentage of lexical coverage found for the 494 meanings that were analyzed. For the modern Arawak languages, coverage is much higher than it is for Shebayo and Taino, which exhibited 3% and 25% coverage, respectively. With Shebayo and Taino included in the dataset, mean lexical coverage is 66.2%. Omitting Shebayo (as was done in the final study) there is a mean coverage of 73.2%.

language	%	language	%
Achagua	64%	Palikur	80%
Añun	73%	Shebayo	3%
Baniwa	81%	Taino	25%
Garifuna	86%	Wapishana	84%
Lokono	79%	Wayúu	87%

Table 1.1: Languages included in the lexical phylogenetic analysis and percent coverage

Because of the limited nature of colonial-era wordlists, an attempt was made to include vocabulary items that were available for Taino and Shebayo that were not on the original list of meanings for the expanded Swadesh list. The terms three, enemy, dog, ocean, mahogany, earring, hoe, corn, chigger, papaya, red, jewel, pineapple, and stone were added to the list of basic meanings post hoc because they were present in the vocabulary lists available for Taino and because there were related forms for one or more of the languages in the study available for these items.

Island Carib lexical data was not included in the phylogenetic analysis, though the language is known to be extremely closely related to modern Garifuna. Ancestors to modern-day Garifuna speakers were forcibly separated from the Island Carib population by British colonial forces in the late 18th century (Taylor, 2012). However, extant lexical data for Island Carib exist in only in the form of a 17th century dictionary collected by a French priest (Breton, 1900), and the original dataset included only modern languages, and languages that could be used for a phonological reconstruction of Caribbean Northern Arawak languages. It was additionally unclear in early stages of the project whether the Island Carib lexical data truly represented a distinct language from Garifuna or an ancestral version of the modern language. Coupled with these issues, the orthographic representations of Island Carib lexical data are inconsistent and sometimes difficult to interpret, making exact form-meaning correspondences difficult to identify. Currently, efforts are underway to parse the Breton dictionary, as well as colonial-era Island Carib Catechisms, and the resulting lexical database will make it possible to include Island Carib in future versions of this study.

1.3.2 Form-meaning correspondence sets

After collection, lexical items were placed into form-meaning correspondence sets on the basis of regular sound correspondences across the Northern Arawak languages. These form-meaning sets were constructed in RefLex (Segerer and Flavier, 2016), a lexical database platform developed by the Laboratoire Dynamique Du Langage at the University of Lyon in France. The sets of homologous items coded for phylogenetic analysis consist of root-meaning set (Chang et al., 2015). Lexical items that are cognate but exhibit non-identical meanings are not treated as homologous for the purposes of this this analysis, e.g., terms like Garifuna dunuru 'bird' and Añun atüna 'arm/branch/wing' were not treated as homologous in the CNA lexical database.

Compound words that only exhibited partial cognacy were coded as cognate, following Trask (2000)'s notion of *oblique cognacy*. For example, Garifuna *líraü ugudi* and Lokono *koti ibira* 'toe' are coded as cognate because for both languages these terms include a cognate term for foot, *ugudi* in Garifuna, and *koti* in Lokono.

1.3.3 Phylogenetic analysis

Root-meaning sets were coded as binary character states in the character table, with presence or absence of a character coded as 1 or θ , respectively. Lexical items that were not found for a particular language were coded as unknown, denoted by ? in the character table. The analysis treats shared character traits as either retentions of ancestor states or as joint innovations, penalizing topological structures that treat innovations as parallel. 'Unknown' state values of characters do not inform the topological structure. Table 1.2 exemplifies character-state coding for the meaning pepper. Because the forms for this meaning correspond across all but one of the languages sampled, there are two different characters with the meaning pepper: pepper 1 and pepper 2. Languages that exhibit a form for pepper 1 (in this case, all the languages that exhibited a cognate form for the word 'pepper') are coded as exhibiting the character pepper 1, and not exhibiting pepper 2. Conversely, the language (Achagua) that exhibit a form for pepper 2 is coded as exhibiting this character, but not pepper 1. Languages for which there was no data available for this meaning are coded as ? for both characters.

	Garifuna	Taino	Lokono	Añun	Wayúu	Achagua	Baniwa	Wapishana	Palikur
pepper	ati	a∫i	athi	Ø	ha∫i	ijáliaa	áati	Ø	atit
pepper 1	1	1	1	?	1	0	1	?	1
pepper 2	0	0	0	?	0	1	0	?	0

Table 1.2: Sample character state coding for the word pepper

Taxa ages were set as present day, except for Taino, which was given a date corresponding to the colonial era, forward -450 years in BEAST (= 450 BP). The resulting dataset was

analyzed with BEAST v. 1.8.3 (Drummond and Rambaut, 2007), using a Stochastic Dollo model to infer phylogeny. Four chains of 10,000,000 iterations with a thinning interval of 1000 were run. Trees were summarized using TreeAnnotator. Of the 10000 trees stored in the sample, the first 2000 structures were discarded as burn-in from each chain.

1.3.4 Structures returned from lexical phylogenetic analysis and discussion

The structures returned by the Bayesian phylogenetic analysis show that the MCMC procedure converged well. The classification returned by BEAST is shown in Figure 1.5. Within CNA, we see that the only branch that does not have a posterior probability of 1 is the clade containing Lokono, Wayúu, and Añun, which exhibits a value of .975, and is thus still very well supported. Placement of outgroup languages is loosely consistent with Aikhenvald's 1999 subgrouping of Arawak; Baniwa and Achagua are grouped together, returning her North Amazonian group of Northern Arawak. It is somewhat surprising to see Wapishana group with CNA given extant classifications of Arawak subgroups, but the language is geographically close to Lokono, so their closer relatedness is not implausible. Palikur is extremely divergent from the other Northern Arawak languages, and its status as an outgroup language is supported by previous classifications of Northern Arawak (Aikhenvald, 1999).

1.3.5 Comparison with previous classifications

Large-scale analyses of Arawak subgrouping have been carried out on the basis of lexicostatistics (Payne, 1991b; Ramirez, 2001), and comparative work has been carried out for subgroups of the family, including CNA (Captain and Captain, 2005; Taylor and Rouse, 1955). Early work on the internal classification of the language family was carried out by Noble (1965). On the basis of this work, linguists have proposed classifications for Arawak that group all members of CNA but Garifuna and Island Carib, as shown in Figure 1.6 (Aikhenvald, 1999; Campbell, 2012).

The structure in Figure 1.6 has been proposed in large part on the basis of the phonological shape of the first person singular pronouns and bound prefixal person markers in these languages (Taylor and Rouse, 1955). The clade labeled TA-Arawak is so called because it groups together those members of Caribbean Northern Arawak that exhibit some form of ta or da as the marker for first person singular, either as bound, prefixal agreement morphology, or as the first two sounds of the free first person singular pronoun. In all other Arawak languages, the bound and free first person singular marker is nV. This form for first person is so widespread that it has been used as a diagnostic for determining Arawak family membership. While it is widely accepted that morphological evidence is the most informative for determining issues of subgrouping, I argue here that evidence for including Taino in TA-Arawak to the exclusion of Garifuna is particularly thin. Rather, I argue that

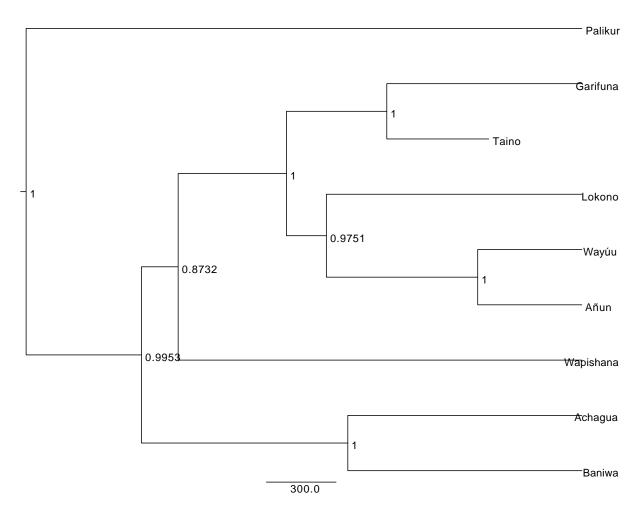


Figure 1.5: Classification from BEAST

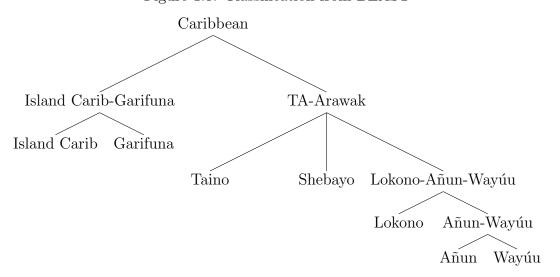


Figure 1.6: Traditional internal subgrouping for Caribbean Northern Arawak (Taylor and Rouse, 1955)

proto-CNA exhibited both ta and nV in complementary distribution, and that the ta form was generalized as a prefixal agreement marker in proto-Lokono-Añun-Wayúu, while the nV form was generalized in Garifuna and Island Carib. This analysis is supported by explicit evidence from the pronominal and prefixal person marking systems of the CNA languages, as I discuss below.

The free pronouns, and the pronominal prefixes for Caribbean Northern Arawak are summarized in Tables 1.3 and 1.4. Comparing the free pronouns in Table 1.3, we see Taino, Lokono, and Wayúu all exhibit very similar pronominal forms for the first person singular, and that Garifuna and Island Carib's systems are nearly identical, as expected given the close history of these two languages. We observe that Garifuna and Island Carib exhibit a genderlect distinction for the first and second person singular pronouns. The masculine speech pronoun au is known to be of Carib origin. The forms Lokono exhibits for third person singular do not appear to be cognate with those exhibited by Wayúu, and Añun exhibits no free third person singular pronominal form.

	Garifuna	Island Carib	Taino	Lokono	Añun	Wayúu
1	nuguja, au	nukuja, ao	dat∫a	dei de	te	taja
2	buguja, amira	bukuja, amira		bii bo	pía	pia
3m	ligija	likia		li dei	Ø	nia
3f	tuguja	tokoja		t^h o no	Ø	shia/hia
1pl	wagija	wakia		wei we	we	waja
2pl	huguja	hokoja		hei h i	haña	hija/haja
3pl	hagija	nhakija		nei je	nana	naja

Table 1.3: Northern Arawak free pronouns

Examining the prefixal pronominal forms in Table 1.4, we find a similar pattern. Like in the free pronominal paradigm, Lokono, Añun, and Wayúu exhibit forms that appear to be related in the first person, but the Lokono form for third person singular differs from its closest relatives. Garifuna and Island Carib remain nearly identical. However, we find that the form of the first person prefix for Taino is ni-, bringing its prefixal pronominal system into line with Garifuna and Island Carib, rather than with TA-Arawak for this part of the pronominal system.

Comparing Tables 1.3 and 1.4, it is observed that while limited data is available for Taino, the colonial-era word lists sourced for this work include both the bound first person marker ni- (von Martius, 1867), and the free pronoun datfa (de Goeje, 1939), a fact that appears to have been previously overlooked in discussions of subgrouping for these languages, but one that is of crucial importance for an empirically based understanding of branching within this subgroup, precisely because so much has been made of the first person morpheme in Caribbean Northern Arawak internal subgrouping.

The morphological facts of the Taino pronominal system suggest that proto-CNA exhibited at least a bound first person pronoun nV-, and a free first person pronoun beginning with

	Garifuna	Island Carib	Taino	Lokono	Añun	Wayúu
1	nu-	n-	ni-	da-	ta-	ta-
2	bu-	b-	ti-?	b i –	p i -	p i-
3m	li-	l-	li-	l i –	n i -	n i-
3f	tu-	t-		t ^h i-	h i -	si-/sa-/ha-
1pl	wa-	wa-	wa-	wa-	wa-	wa-
2pl	ha-	h-		h i -	ha-	ha-/hɨ
3pl	ha-	nh-		na-	na-	na-

Table 1.4: Northern Arawak prefixal person markers

the phonological sequence da-/ta. Since nV- is the form for first person singular in the wider Arawak language family, its attestation in Taino and Garifuna must be due to inheritance from an ancestral language rather than an innovation, and if proto-Garifuna-Taino inherited this form, it must have inherited it from proto-CNA. Given that Garifuna and Taino form a subgroup to the exclusion of Lokono, Añun, and Wayúu in the lexical analysis presented here, I argue that proto-CNA must have also exhibited a free pronoun beginning with some form of da/ta that underwent lexical replacement in Garifuna.

Previous analyses have pointed to the shared form ta among Lokono, Wayúu, Añun, and Taino, and reasoned that this form was indicative of a shared morphological innovation among these languages — namely, the replacement of wider Arawak first person nV with ta — and therefore evidence that these languages shared a common ancestor to the exclusion of Garifuna and Island Carib. However, if proto-CNA exhibited both the free pronominal form ta and the bound form nV, as Taino clearly did, then the presence of a pronominal form ta in Taino is not evidence for a TA-Arawak subgroup that excludes Garifuna and Island Carib because there was no replacement of nV in the bound pronominal system in Taino.

If my analysis is correct, the fact that Lokono, Añun, and Wayúu all exhibit both bound and free first person morphology involving ta- is evidence for a TA-Arawak clade, but not evidence for one including Taino. The morphological innovation distinguishing this group is the paradigmatic leveling of ta- across the free and bound pronominal systems. Since joint innovations (rather than retentions of archaic forms) are informative for subgrouping, the fact that Taino exhibited a first person pronoun dat fa does not provide evidence that the language is more closely related Lokono-Wayúu-Añun than it is to Garifuna.

Turning to the lack of a form related to ta in Garifuna and Island Carib, it would seem that the CNA pronominal paradigm was simply leveled in the opposite direction of TA-Arawak's — the bound first person marker nV replaced the free pronoun based on ta, instead of generalizing ta.

However, it is also possible that the Garifuna-Island Carib pronominal change was circuitously driven by language contact. Both Garifuna and Island Carib exhibit a masculine speech genderlect item au for only the free first person pronoun. This pronoun is morphologically

unrelated to the bound first person marker, mirroring the Taino pronominal system, which also exhibits morphologically unrelated free and bound first person pronouns. The source of the Garifuna-Island Carib pronoun is demonstrably Carib, and its integration into Garifuna and Island Carib's ancestor language is attributed to pre-Colombian intermarriage between the Cariban and Arawak people of the lesser Antilles. Cariban men, specifically, are reported to have intermarried with Arawak women, and male genderlect items are of Carib origin (Taylor, 2012).

A possible explanation for the lack of a ta-form pronoun in Garifuna is that the Cariban form completely replaced the free first person pronoun at some stage of pre-Garifuna-Island Carib, and the feminine speech first person pronoun developed later from the bound first person pronoun and some available deictic morphology in the language.⁶ This suggests a possible analysis where the ancestor language of Garifuna and Island Carib exhibited a bound pronominal form nV-, and a free pronoun based on ta, and just the free form underwent lexical replacement by the Cariban form au, fitting into a system that already existed, and not creating a new pronominal distinction.

The lower-level clades proposed for Caribbean Northern Arawak are well supported by high quality comparative work on these languages. Over the course of his career, Douglas Taylor produced a large body of work on the Caribbean Northern Arawak languages, and all current internal classifications of Arawak rely heavily on his analysis of subgrouping for Caribbean Northern Arawak, though the bulk of his comparative work primarily focused on Garifuna and Island Carib.

Taylor and Rouse (1955) is an early attempt at subgrouping within Caribbean Northern Arawak that relies on a lexicostatistic analysis of comparative vocabulary items across Lokono, Island Carib, and Taino, as well as archeological evidence for population dispersal across the Antilles. Interestingly, the archeological evidence reported in the paper support the tree in Figure 1.7, where Taino, and the precursor language to Island Carib share a common ancestor to the exclusion of the mainland Caribbean Northern Arawak languages, and not the one in Figure 1.6, but Taylor felt so strongly that the presence of the Taino form datfa was diagnostic of a TA-Arawak subgroup that excluded Garifuna and Island Carib that the two researchers ultimately propose an analysis where the Greater Antilles were populated by the Taino from mainland South America well after the ancestors to the Garifuna and Island Caribs had moved into the Lesser Antilles Islands.

To be certain, documentation postdating Taylor's work has significantly improved the potential for accuracy in carrying out comparative analyses of these languages, but his 1955 work is the first in a long series of publications to ignore the fact that Taino exhibited a bound prefixal first person marker ni-, a point that is of considerable importance considering that subgroups that exclude Garifuna from TA-Arawak do so on the assumption that the Taino pronominal system closely resembled Lokono's.

⁶de Carvalho (2016) argues out that the pronominal base for the TA-Arawak pronouns was such a diectic element, *ja, and that the Island Carib pronominal forms containing -kia are unrelated to this morpheme.

1.3.6 Comparison with previous studies using lexical phylogeny

The topological structure returned by the analysis presented here is compatible with the structure produced independently by recent phylogenetic work on the Arawak languages. Walker and Ribeiro (2011) collected a Swadesh list of 100 basic vocabulary items for 60 Arawak languages and coded forms for cognacy across the family. They analyzed their data using BEAST v. 1.6.1 (Drummond and Rambaut, 2007) to infer a tree structure for the family, which resulted in the structure in Figure 1.7 for Caribbean Northern Arawak.

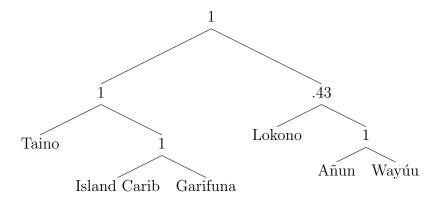


Figure 1.7: Proposed structure for Caribbean Northern Arawak with posterior probabilities, adapted from Walker and Ribeiro (2011)

Though there is very little documentation of Taino, lexical phylogenetic analysis is an appropriate methodology for the type of data that is available for the language. Walker and Ribeiro (2011) were able to find 74 of 100 Swadesh list items for Taino, which is reasonably good coverage for the language. The posterior probability of every subgroup proposed by Walker and Ribeiro (2011) is 1, with the exception of the Lokono branch, which is reported to be .43, much lower than the posterior of .975 reported by the current study, and, in fact, far below the standard threshold 0.80 posterior probability generally accepted as evidence for subgrouping in this type of analysis (Michael et al., 2015).

As demonstrated by the low posterior probability returned for the Lokono-Añun-Wayúu clade by Walker and Ribeiro's (2011) analysis, and the comparatively high posterior probability returned for this clade in the current study, lexical phylogenetic analyses can be improved significantly by expanding the number of lexical items included in such analyses when possible. For the languages of South America, in particular, the Swadesh list has been shown to have limited utility in diachronic studies of these languages, both because of widely cited complaints of the cross-cultural relevance of the items identified on the Swadesh list (Oswalt, 1971), and because generalizations about rates of lexical replacement observed for other parts of the world do not hold for South American language families. Bowern et al. (2014) shows that, contra the received view (Swadesh (1955), for example), in the context of South American languages, terms for local flora and fauna are highly stable, making these terms extremely useful to include in studies involving the Arawak language family. Taken with other core vocabulary, observing rates of replacement for these vocabulary items provides a fuller picture

of subgrouping for these languages.

Finally, it is unclear that Island Carib and Garifuna should be treated as separate languages in this type of analysis — the source used for Island Carib in Walker and Ribeiro (2011), and (where data from Island Carib is included) the present study, Breton (1900), is a 17th century dictionary of the language, during which time Island Carib and Garifuna may not have yet diverged in a meaningful way. Alternatives would be to treat Island Carib as an ancestor to Garifuna, or to omit it altogether, as was decided for the present study. Future versions of this research will include lexical data from Island Carib.

1.3.7 Summary and discussion

This section investigated the internal classification of Caribbean Northern Arawak on the basis of a lexical phylogenetic study. The findings from this study are consistent with extant proposals of subgrouping within CNA to varying degrees, with the most serious discrepancy in the classification of Taino, which has historically been erroneously grouped with TA-Arawak to the exclusion of Garifuna, its closest living relative.

A reexamination of colonial-era wordlists for Taino revealed that the language exhibited both the first person pronoun datfa, and the first person prefix ni- calling into question classifications of the family based solely on the phonological shape of the first person marker. The remaining chapters of this work presuppose the topological structure discussed in this chapter, and use it as partial support for proposals of joint morphosyntactic innovations and retentions across the CNA languages.

1.4 Person marking and alignment in Caribbean Northern Arawak

Here, I describe active-stative alignment for the modern CNA languages, as both Chapters 2 and 3 rely on an understanding of this alignment system as a point of reference for alignment patterns that deviate from it. The Arawak languages generally exhibit active-stative alignment systems that are expressed in their verbal agreement paradigms, where the subject of a transitive verb (an A argument) and the single argument of an active intransitive verb (an S_a argument) are both cross referenced by the same prefixal verbal person marker, and the object of a transitive verb (an O argument) and the subject of a stative intransitive verb (an S_o argument) are cross-referenced with the same suffixal verbal person marker, or with no marker at all (Aikhenvald, 1999).

The Caribbean Northern Arawak languages exhibit this core active-stative argument marking strategy, as shown for each of the currently spoken CNA languages in examples (1)–(12).

For each language, a segmentally identical prefixal person marker cross-references an A or S_a argument, and a segmentally identical suffixal person marker cross-references an O or S_o argument. I now illustrate this pattern for each of the CNA languages.

We see in Añun example (1) that the active transitive verb kimaa 'build' takes two arguments, an agent and a patient; the agentive argument is marked prefixally with ta- 1sg, while the patientive argument is marked suffixally with -i sg.M.

(1) Takimaai. Añun

```
ta- kɨmaa -i
1SG- build -SG.M
A V O

'I build it.'
(Patte, 1989)
```

For the stative, intransitive verb tima 'sleep' in example (2), we see that the single argument is marked suffixally, just like the object in example (1)⁷.

(2) Atimi. Añun

```
a- tima -i
AT.1- sleep -M
V S<sub>o</sub>

'He's asleep.'
(Patte, 1989)
```

In example (3), we find an active, intransitive predicate, una 'go'; its single, agentive argument is marked prefixally, like the A argument in (1).

⁷Patte (1989)'s glossing conventions are preserved here, where a- AT.1 is segmented from the verb root. She analyzes this morpheme as an attributive marker, presumably considering it to be a reflex of proto-Arawak ka-, carried prefixally by derived stative verbs and in complementary distribution with the prefixal person markers. In fact, in all the CNA languages, a prefix a- is obligatorily carried on verb forms that do not take person marking prefixes. In Garifuna, this prefix is frozen as a part of the suffixing verb root forms. In Wayúu, it is identifiable in suffixing verb stems, as well. Añun also exhibits the expected version of the attributive morpheme ka-, which Patte glosses as AT.2, and this morpheme functions uncontroversially as an attributive.

(3) Wouna. Añun

```
wa- una 1.PL go S_a V 'We go.' (Patte, 1989)
```

The same set of facts holds for Wayúu. We find that the A argument of the transitive predicate $e'rr\acute{e}r$ 'see' is cross-referenced prefixally in example (4), and that the O argument is cross-referenced suffixally.

(4) Te'rrérri. Wayúu

```
t- e'rrér -ri
1sg- see -sg.f
A V O
```

'I see her.'
(Zubiri and Jusayu, 1978)

Just as was the case for Añun, we find suffixal marking cross-referencing the single argument of a stative predicate in example (5), where the subject of the verb atunk 'sleep' is cross-referenced with the suffix -chi SG.M.

(5) Atunkeechi. Wayúu

```
atunk -ee -chi
sleep -FUT -SG.M
V S<sub>o</sub>

'He will sleep.'
(Álvarez, 2007)
```

In example (6), the active, morphologically intransitive verb eki 'eat' cross-references its only argument prefixally with the first person prefix, t-.

(6) Tekin. Wayúu

```
t- eki-in

1SG eat -PROC

S_a V

'I eat.'

(Uriana and Ipuana, 2000)
```

Lokono exhibits this same pattern; in example (7) the transitive verb simaka 'call' carries the prefixal marker by- 2sg, which cross-references the A argument. The suffixal marker -i M.sg cross-references the O argument of the verb.

(7) By-simaka-i. Lokono

```
by- simaka -i
2sG call -M.sG
A V O
'You called him.'
(Pet, 1987)
```

Example (8) shows that the stative intransitive verb kawa 'be absent' cross-references its single argument with the suffixal person marker -n 3sg.F.

(8) Kawakan Lokono

```
kawa -ka -n
absent -PERF -3SG.F.
V S_o
'She's gone.'
(Pet, 1987)
```

And, as we found for Añun and Wayúu, the single argument of an active, intransitive verb is marked prefixally in example (9), where the active verb osa 'go' carries a single, prefixal person marker l- 3SG.M.

(9) Losabo. Lokono

```
l- osa -bo

3.SG.M- go -IMPF

S_a V

'He is going.'

(Pet, 1987)
```

Finally, we find that the same set of facts holds for Garifuna. In example (10) we find the transitive verb alwaha 'look for' cross-references two arguments: the A argument l- 3SG.M is marked prefixally; the O argument -un -3SG.F is marked suffixally.

(10) Lalwahayon. Garifuna

```
l- alwaha -ya -un
3SG.M- look.for PROG -3SG.F
A V O
```

'He looks for her.' (Prendergast, f.n., 2012)

In example (11) the morphologically intransitive active predicate egi carries a single affix, the prefix l- 3sg.M, cross-referencing the single S_a argument of this verb.

(11) Legi Pablo Garifuna

l- egi Pablo 3sg.m- eat Pablo S
$$_a$$
 V

'Pablo eats.' (Stark, f.n., 2012)

Lastly, example (12) shows that the single S_o argument of a stative predicate is cross-referenced with a suffixal person marker, just as it is for the other CNA languages; the stative intransitive predicate $h\acute{a}ngi$ 'be stingy' cross-references its single argument with the suffix -ti 3sg.M.

(12) Hángiti mútu.

Garifuna

```
hángi -ti mútu
be.stingy -3sg.M person
V S_o
'He is stingy.'
(Munro, 2007, 117)
```

While these examples demonstrate the widespread active-stative alignment system found in Arawak, they do not exhaustively represent the argument marking systems of the CNA languages or wholly capture the alignment systems exhibited by these languages; Garifuna and Wayúu exhibit pockets of ergativity in certain contexts, discussed in Chapter 3, and Garifuna, Wayúu, and Añun all exhibit a suffixal person marking construction that only cross-references the subject of a predicate, neutralizing participant role in these constructions, the diachronic origins of which are the subject of Chapter 2.

Word order of overt arguments is generally irrelevant within the alignment systems of the Arawak languages, where arguments are most commonly encoded via verbal person marking, and free nominal or pronominal arguments often have marked discourse status, resulting in a variety of acceptable word orders for free arguments. Additionally, basic word order differs across the CNA languages: basic word order in Lokono is SVO, but VSO in the other three languages. For Garifuna, Wayúu, and Añun, an overt syntactic subject always follows the predicate, irrespective of predicate type.

Lokono is the only language that reflects active-stative alignment in the word order of its overt arguments, and it is the only CNA language not to exhibit the suffixal subject marking construction that is the focus of Chapter 2.

In addition to the active-stative marking exhibited in examples (7)–(9), Lokono encodes a active-stative split in its alignment system via word order, where A and S_a arguments precede the verb, as seen in (13), and O and S_o arguments follow the verb, as in (14). Unlike for the other CNA languages, overt arguments are not cross referenced on the verb with person markers in Lokono, as shown in example (15), where we see that the single argument of the verb, hiaro 'woman', is not marked on the verb. Pronominal arguments are encoded either with the person affixes or with free pronouns, never with both. Lokono only exhibits suffixal person markers for third person singular feminine and masculine, and for first person plural.

(13) Li fatada de.

Lokono

li fatada de 3sG hit 1sG A V O 'He hit me.' (Pet, 1987) (14) Fonasia de.

Lokono

fonasia - \emptyset de hungry -PAST 1SG V S_o
'I was hungry.' (Pet, 1987)

(15) To hiaro kanabafa.

Lokono

 $\begin{array}{cccc} \text{to} & \text{hiaro} & \text{kanaba -fa} \\ \text{the woman listen} & \text{-FUT} \\ & \text{S}_a & \text{V} \end{array}$

'The woman will listen.' (Pet, 1987)

Lokono word order is relevant to the analysis here because the set of properties I attribute to proto-CNA includes predicate initiality, an attribute the three other CNA languages retain. I argue for predicate initiality in proto-CNA in §2.5. Here, it is simply worth taking note of basic word order and alignment for each of these languages as a preview to the arguments made about alignment in the chapters that follow.

Chapter 2

Nominalization and alignment change in Caribbean Northern Arawak

This chapter examines a process of alignment change facilitated by the reanalysis of a suffixal subject nominalizer active in relativization as agreement morphology encoding a syntactic subject. Properties of the modern construction are related to properties of nominalizations, cross-linguistically. Nominalized verbs in predicate position are proposed as a bridging construction in this reanalysis, and a suffixal paradigm active in encoding objects and stative subjects are argued to have provided an analogical template for the reanalysis of the nominalizer as agreement morphology.

2.1 Introduction

This chapter examines the development of a suffixal person-marking strategy found in three of the four Caribbean Northern Arawak (CNA) languages, Garifuna, Wayúu, and Añun. This argument-marking strategy neutralizes the generalization that S_a and A arguments are encoded prefixally, while S_o and O arguments are encoded suffixally, as it cross-references all syntactic subjects suffixally, and does not cross-reference O arguments at all. I trace the suffixal person-marking morphemes involved in this cross-referencing strategy to a subject nominalizer that I reconstruct to proto-CNA. Given the subgrouping of the CNA languages established in Chapter 1, I argue that the suffixal subject-marking construction developed independently twice in the history of the modern CNA languages, and that these independent developments were made possible by constructions inherited by all of the Caribbean Northern Arawak languages, namely, the presence of the subject nominalization construction, the lack of a copula in clauses with non-verbal predicates, and a set of suffixal person markers used for stative subjects and syntactic objects. I additionally argue that the development of a copula from a demonstrative in Lokono blocked the suffixal subject-marking strategy from

developing in this language.

This chapter is structured as follows: §2.2 introduces the suffixal agreement strategy that is found in three of the four currently spoken CNA languages. §2.3 provides a description of the modern distribution of the subject nominalizer in the CNA languages, both in terms of where it has actively been involved in subject nominalization synchronically, and where it has been lexicalized as a part of nominal roots in the CNA languages. §2.4 describes non-verbal predication for the CNA languages, a structure I argue served as a bridging context in the reanalysis of the suffixal nominalizer as verbal person agreement. §2.5 maps the proposed diachronic development from nominalizer to agreement marker for Garifuna, Wayúu, and Añun. §2.6 concludes.

2.2 Suffixal subject marking in Caribbean Northern Arawak

In addition to the active-stative alignment pattern shown in (1)–(12), Garifuna, Añun, and Wayúu exhibit a construction where suffixal person markers crossreference an A or S_a argument, neutralizing participant role for arguments encoded with suffixal person markers — that is, suffixal person markers may encode any argument type in these languages, including an active subject, a stative subject, or a direct object. I argue that the suffixal subject marking exhibited in these languages is innovative and that it developed from a proto-CNA subject relativization strategy still active in Lokono.

This argument-marking strategy is shown for Garifuna in example (16), where the single S_a argument of the active verb *eremuha* 'sing' is encoded suffixally with the 1SG marker *-tina*.

```
(16) Eremuhatina.
```

Garifuna suffixal subject construction

```
Eremuha -tina
sing -1sG
'I sang.'
(Kaufman, 2010, p. 7)
```

Example (17) shows the same construction in Añun, where the single argument of the active verb amita 'climb' is cross referenced with the suffixal SG.M marker -chi.

(17) Amïtichi

Añun suffixal subject construction

```
a- mïta -i -chi
AT.1- climb -ASP.2 -SG.M
'He climbed'
(Patte, 1989, p. 97)
```

I will now discuss the distribution of the suffixing subject construction among the CNA languages, as I will argue that the modern distribution of this construction provides evidence for its historical origin. In the case that an A argument is encoded suffixally, the O argument is not cross-referenced on the verb. An O or S_o argument can never be marked prefixally on the verb. Suffixal A marking is further restricted within the individual languages.

For Añun and Wayúu, Álvarez (2014) states that this argument-marking strategy can only be used for transitive verbs when the complement to the verb is non-specific, shown for Wayúu in example (18), where the suffixal SG.M marker -chi cross references the A argument pia 2SG of the transitive verb aya'lajüin 'buy', and not its object, which is not cross-referenced on the verb at all. According to Álvarez, this sentence is only grammatical in the case where the speaker is talking about computers generally, and not a specific computer, as indicated in the gloss, where the definite determiner the is not a possible translation for the Wayúu prose.

(18) Aya'lajüinjachi pia komputatoora.

Wayúu suffixal subject construction

```
Aya'lajüin -ja -chi_i pia_i komputatoora_j buy FUT -SG.M 2SG computer 'You're going to buy a (*the) computer.'
```

For Garifuna, the relevant discourse parameter for whether an object may not be cross-referenced on the verb is definiteness, as shown in example (19). Garifuna may encode an A argument suffixally only if the complement of the verb is indefinite. Specific, indefinite objects are not cross referenced on the verb in Garifuna, which is slightly different from, but closely related to the pattern observed for Wayúu.

(19) Houtina keiki.

(Álvarez, 2014)

Garifuna

```
hou -tina keiki
eat 1sG cake
'I ate (*the) cake.'
(Stark, 02nov2011, p.74)
```

Within CNA, the person, number, and gender features that are encoded with suffixal person markers vary. For Añun and Wayúu, suffixal agreement markers encode gender and number, but not person; a first or second person pronoun is compatible with these agreement markers, as long as the referent indexed by the free pronoun matches in number and gender with the person marker. Examples (20) and (21) show that the Wayúu masculine and feminine singular forms of the suffixal person markers are compatible with any singular pronoun.¹

```
(20) Ayonnajüshi Kamiirü/taya/nia/pia.

Ayonnajü -shi Kamiirü/ taya/ nia/ pia dance -sg.m Camilo 1sg 3sg.m 2sg

'Camilo/I/he/you dance(s).'
(Álvarez, 2014)
```

(21) Ayonnajüsü Mariia/taya/shia/pia.

Wayúu

Wavúu

```
Ayonnajü -sü Mariia/ taya/ shia/ pia
dance -sg.f María 1sg 3sg.f 2sg
'María/I/she/you dance(s).'
(Álvarez, 2014)
```

Variation within the person systems of these suffixes seems to correspond to variation in co-occurrence restrictions for overt arguments for these languages. Unlike for Añun and Wayúu, Garifuna suffixal person markers encode gender, number, and person, and are incompatible with co-indexed free pronouns in main clauses.

```
(22) Houtina üdüraü (*nuguya).

hou -tina üdüraü (*nuguya)
eat -1.SG fish 1.SG

'I ate fish.'
(Stark, f.n.)
```

We see in (22) the suffixal person marker *-tina* 1.SG encodes person and number, and is incompatible with the free pronoun that has the same meaning nuguya.

In contrast to Lokono, Garifuna verbal person markers are compatible with overt arguments, as long as these are not pronominal. Example (23) shows that the 3sg.M suffix -ti is compatible with the co-indexed argument Pablo, but not the pronominal argument liqiya.

¹Only the third person free pronouns encode gender, but for the use of the first or second pronoun to be felicitous in these constructions, the referent of the pronoun should correspond in gender with the suffixal agreement marker used on the verb.

(23) Adiahati Pablo/*ligiya.

Garifuna

adiaha -ti Pablo/ ligiya fish -3sg.ms Pablo 3sg.m 'Pablo fishes.' (Stark, f.n.)

Table 2.1 summarizes the alignment patterns and argument-marking strategies discussed in this section and $\S1.4$. We see that Lokono is most restrictive, both in terms of which argument may be marked suffixally in main clauses (O or S_o only), and in terms of which overt arguments may be cross-referenced on the verb (none). Añun and Wayúu pattern together across the board, allowing any argument to be cross-referenced suffixally, and cross-referencing any free argument, pronominal or otherwise (specificity restrictions for objects aside). Garifuna falls in the middle, allowing for all arguments to be marked suffixally under the right conditions, and cross-referencing overt arguments so long as these are not pronominal. Finally, we see that Garifuna is the only CNA language to maintain a full range of person-marking distinctions in its suffixal person-marking paradigm.

	Añun	Wayúu	Garifuna	Lokono
suffixal O/S_o	√	√	√	√
suffixal A/S_a (subject construction)	✓	\checkmark	✓	X
co-occurs with coreferential pronominal argument	√	✓	Х	Х
co-occurs with coreferential non-pronominal argument	✓	\checkmark	✓	X
exhibits person distinctions	X	Х	√	X

Table 2.1: Summary of suffixal person marking in CNA

In the following section, I will tie the suffixal A and S_a argument-marking pattern to a subject nominalization strategy used in relative clause formation that is actively retained only in Lokono. I argue that the reanalysis of a suffixal subject nominalizer as person agreement in Garifuna, Wayúu, and Añun led to the availability of the suffixal A/S_a argument-marking pattern in the first place; since the nominalizer is retained as such in Lokono, the absence of this person-marking strategy for Lokono is explained. In §2.4 I will argue that non-verbal predication provided a bridging context for the reanalysis of the suffixal nominalizer as person agreement in Garifuna, Wayúu, and Añun. These languages are predicate initial, exhibit no copula, and the nominalizer carries gender and number features for the target of relativization, making the reanalysis I propose possible in the context where a nominalized verb serves as predicate. Given the subgrouping established for the CNA languages, and the modern distribution of the morpheme in each of these languages, I argue that the parallel development of this suffixal subject-marking strategy in Garifuna and Wayúu-Añun is independent. That is, as is the case for the emergence of an ergative argument-marking strategy in Garifuna and Wayúu, as discussed in Chapter 3, it is the joint inheritance of similar morphosyntactic features that allowed for a parallel change to occur independently in these two languages, and not the inheritance of this structure from proto-CNA.

Finally, it is worth pointing out that Garifuna is the only CNA language that maintains person-marking distinctions across its suffixal person-marking paradigm, as well as the only CNA language that cannot crossreference a pronominal argument with agreement affixes. In the final section of this chapter I link these two facts analytically.

2.3 The CNA subject nominalizer and its reflexes

The Caribbean Northern Arawak languages all exhibit some reflex of the subject nominalizers $*-t^h i$ (M) and $*-t^h u$ (F)² (reconstructed below), either (1) frozen in demonstrably derived nouns, (2) functioning synchronically as a nominalizer, or (3) both. Person markers in the suffixing strategies discussed above are cognate with the third person suffixal subject nominaizer in Lokono, allowing for a straightforward analysis where these have undergone reanalysis as verbal agreement.

In this section, I present the synchronic distribution of reflexes of these suffixes in the four modern CNA languages, in all its forms, before turning to a diachronic analysis of its change from subject nominalizer to agreement marker. I begin with a brief explanation of clausal nominalization in the Amazonian context in order to elucidate how a suffixal nominalizer might be active in relative clause formation in the first place. I then present a formal comparison of the reflexes of the subject nominalizer in each of the CNA languages, providing evidence of cognacy for these reflexes across each of the CNA languages and justifying its reconstruction. I then examine the synchronic distribution of this morpheme in the the CNA languages to demonstrate that the morpheme is retained, and that it is retained in similar contexts for each of the CNA languages and that these contexts relate transparently to a historic subject nominalization construction used in relative clause formation.

2.3.1 Clausal nominalization

The Amazonian languages very commonly utilize nominalization in subordinate clause structures, so much so that clausal nominalization is taken to be an areal feature of the Amazonian languages (Gijn, 2014; Epps, 2012). The structural properties of these nominalizations vary depending on type of subordinate clause and language. Relative clauses often involve nominalization, and they are often headless, making their relationship to participant nominalization very tightly knit, and sometimes difficult to differentiate, leading to a lack of consensus about the structure of relative clauses, even when an overt relativized noun is present (Epps, 2012; Seki, 2000).

Comrie and Thompson (1985) presents a typology of nominalizations, making general observations about participant versus event nominalizations and the cline of verbal morphology

²These are probably reconstructable to proto-Arawak, as they are widespread throughout the family.

and dependents associated with each, where participant nominalizations are shown to exhibit fewer verbal properties than event nominalizations cross-linguistically. These properties include whether the nominalization exhibits tense, aspect, and mood morphology, whether the nominalized predicate can be modified with an adverb, and whether a dependent of the nominalized verb may exhibit case marking.

Baker and Vinokurova (2009) argue these properties fall out of the syntactic structure of each type of nominalization, where event nominalizations simply exhibit more verbal properties because they contain more syntactic structure cross-linguistically. They exemplify this by comparing event and agent nominalizations in English, constructing nominalizations built off the transitive verb *find*, where 'the finder of the wallet' is an agent nominalization and 'finding the wallet' is an event nominalization.

Baker and Vinokurova posit more internal structure for the event nominalization than they do for the agent nominalization. They attribute the necessity of the preposition of on the direct object of the verb in the agent nominalization to a lack of syntactic structure that they take to be responsible for case-marking an object in English.

This analysis of nominalization provides a fruitful mechanism for understanding clausal nominalization in the Amazonian context, where a good deal of syntactic structure can be included in subordinate clauses that are formally nominalized, and where the optionality between headed and headless relative clause problematizes the distinction between relative clause and lexical nominalization.

I take nouns exhibiting a frozen reflex of the subject nominalizer in Garifuna, Wayúu, and Añun to be syntactically simple, carrying only gender and number agreement. I take the Lokono relativization structure to be syntactically complex because Lokono verbs carrying this nominalizer exhibit verbal properties like argument selection. Ultimately, I propose that having developed from the proto-CNA relativization construction accounts for synchronic properties of the subject suffixing construction in Garifuna, Wayúu, and Añun — specifically, the lack of object marking, lack of TAM morphology, and suffixal subject marking, itself, are a result of this historical development from a subject nominalization construction used in relative clauses with limited verbal properties.

2.3.2 Subject nominalizer and cognacy across the CNA languages

Reflexes of the subject nominalizer can be found in every Caribbean Northern Arawak language, and I argue that these are cognate. Table 2.2 shows the modern reflexes of the masculine and feminine forms of the subject nominalizer in the four CNA languages.

Garifuna, Lokono, Añun, and Wayúu exhibit the correspondence set $/t/-/t^h/-/t/-/s/$, as shown in Table 2.3. Añun /t/ and Wayúu /s/ palatalize adjacent to /i/, and /i/ corresponds straighforwardly across the four languages. For the masculine form of the suffix, I reconstruct

	MASCULINE	FEMININE
Wayúu	-∫i	-s i
Añun	-t∫i	-ti
Lokono	-t ^h i	$-t^{ m h}{ m o}$
Garifuna	-ti	-tu

Table 2.2: Reflexes of the nominalizer

*- $t^h i$ for proto-CNA. I reconstruct aspirated /th/ rather than unaspirated /t/ because the corresponding segment for modern Garifuna and Lokono is aspirated. Also, the sound change $t^h > t f$ is well attested cross-linguistically, and this change is exhibited by Wayúu and Añun. The /tf/-/f/ correspondence in Aun and Wayuu suggests that t^h palatalized to /tf/ in the ancestor of those two languages, with subsequent lenition to /f/ in Wayuu.

Garifuna	Lokono	Añun	Wayúu	Gloss
hitai	$\mathbf{t^{h}}_{\mathbf{i}}$ na	_	i ∫ a	'blood'
hati	kat^hi	kei t∫ i	ka ∫ i	'moon'
tu-	$\mathbf{t^{h}}_{\mathbf{i}}$ -		s i -	3sg.f
ati	$a\mathbf{t^h}i$		ha∫i	'pepper'
eyeritei	$\mathrm{rei}\mathbf{t^h}\mathrm{i}$	ei t∫ i		'husband'
agiti	$\mathrm{k}_{\mathbf{i}}\mathbf{t^{h}}_{\mathbf{i}}$	auwi	ou∫u	'grandmother'
	$\mathrm{i}\mathbf{t^h}\mathrm{i}$		a∫i	'father'

Table 2.3: Caribbean Northern Arawak coronal correspondences

The reconstruction of the feminine form of the subject nominalizer is somewhat less straightforward than the reconstruction of the masculine form because there is variation in the vowel quality exhibited in its reflexes among the CNA languages. Synchronically, the reflexes of the feminine form of the subject nominalizer exhibit the vowel /u/ in Garifuna and /o/ in Lokono. The Wayúu and Añun reflexes both exhibit the vowel /i/. As shown in 2.14 Añun and Wayúu /i/ correspond regularly with Lokono /o/ and Garifuna /u/. Outside the Caribbean branch of Northern Arawak, words that are cognate to the forms presented here exhibit a round high or mid vowel, like Garifuna and Lokono (e.g., Wapishana kashoroo 'bead', ka'u 'hand', dokozu 'grandfather'). Given that Añun and Wayúu form a subgroup to the exclusion of Lokono and Garifuna, and given that outside of CNA the corresponding segment is a back round vowel, I posit that the proto-CNA form of the subject nominalizer contained a round back vowel, and that Añun and Wayúu's common ancestor underwent a regular change u > i. I reconstruct *- $t^h u$, rather than *- $t^h o$ because i and u are both high vowels.

For both the masculine and feminine forms of the subject nominalizers, the exact reconstructions of the proto-CNA forms are not crucial to my analysis. However, establishing

³Modern Garifuna /t/ is aspirated, like Lokono /t^h/. Aspiration is written for Lokono because it is distinctive, which is not the case for Garifuna, Añun, or Wayúu.

Garifuna	Lokono	Añun	Wayúu	Gloss
gat∫uru	kasorho		kaa? i rii	'bead'
at∫ ou ha			a:∫ i: ha	'ferment'
w u rigi		w i ita	w i ttaa	'green'
uhob u	khabo	a:p i	ahap i	'hand'
ub u rei	b o dehe			'fish hook'
igib u	∫ibo			'face'
asigaru	∫ikharh o			'sugar cane'
b u ir u h u			p i: l i ki	'white-lipped peccary'

Table 2.4: Caribbean Northern Arawak high vowel correspondences

cognacy, as I have done here by demonstrating regular sound correspondences across the CNA languages *does* matter for the overall argument presented here. I will demonstrate in the remainder of this section that the synchronic distribution of the subject nominalizer in each of the CNA languages provides more evidence that these morphemes are inherited from the same source.

Garifuna For Garifuna, -ti and -tu do not synchronically function as nominalizers. However, in addition to the use of the forms -ti and -tu as suffixal third person verbal agreement markers, many Garifuna nouns exhibit these in the form of frozen nominalizers, as shown in Table 2.5 with the verbs from which they were historically derived.⁴

Examining the meanings of the nouns exhibiting the frozen nominalizer, we find that the syntactic relation the derived forms hold to the verbs from which they are derived is that of subject; these cannot be understood across the board as agent nominalizations, as stative predicates like *mageira* 'be homeless' do not exhibit agentive subjects. It is worth noting that in modern Garifuna, constructions in which the nominalized forms serve as predicates with overt nominal subjects are synchronically ambiguous between verbal predicate marked for third person and nominal predicate with gender agreement. All other persons are distinguishable because verbal predicates take agreement morphology across all persons, and nominal predicates do not. I take this to mean that synchronically, these are two different syntactic constructions that have the same surface structure precisely because of their historical relatedness, as discussed in the following section.

Garifuna also exhibits reflexes of the frozen nominalizer in a small number of kinship terms. This pattern is more robust for the other CNA languages, but worth discussing for Garifuna, by way of preview for the discussion that follows for Lokono, Wayúu, and Añun. Table 2.6 shows an inexhaustive list of these terms.

⁴A number of these examples contain frozen forms of the Arawak privative *ma*- (i.e., *manounati* 'mateless man'), the attributive *ga*- (i.e., *gaduru* 'be guilty'), and a prefix *a*- that was at least historically required for subject relativization in Lokono. In the case of the privitive and attributive, subject relativization seems to have occurred with derived stative predicates.

ROOT	MASCULINE	FEMININE	GLOSS
adiaha 'to fish'	adiahati	adiahatu	'fisher(wo)man'
abinaha 'to dance'	abinahati	abinahatu	'dancer'
abürüha 'to write'	$ab\ddot{u}r\ddot{u}hati$	$ab\ddot{u}r\ddot{u}hatu$	'writer'
adaha 'make'	adahati	adahatu	'maker'
adugaha 'to fish for the Dügü'	adugahati	adugahatu	'one who catches seafood'
agumesera 'begin'	agumes ehouti	$\mid agumesehoutu \mid$	'beginner'
ásaha 'cut hair'	$cute{a}sahati$	$\acute{a}sahatu$	'barber'
chülü 'to arrive'	$ch\ddot{u}l\ddot{u}d\ddot{u}g\ddot{u}ti$	chülüdügütu	'stranger'
duru 'crime' — gaduru 'be guilty'	gadurunheiti	gadurunheitu	'one who does wrong'
afaraha 'to kill'	gafarahati	gafarahatu	'murderer'
ariha 'to see'	garihati	garihatu	'beggar'
ageiraü 'homeland'	mageirati	mageiratu	'refugee'
mageira 'be homeless'	_	_	_
inounaü 'spouse'	manounati	-	'mateless man'
$mete\tilde{n}u$ 'not having parents'	$mete\~nuti$	$mcute{e}te\~nutu$	'orphan'
-ougien 'above' (preposition)	ougienti	ougientu	'superior person'

Table 2.5: Garifuna nouns exhibiting the frozen nominalizer

KINSHIP TERM	GLOSS
$\acute{a}ruguti$	'grandfather'
amarie iduti	'bridegroom'
amarie idutu	'bride'

Table 2.6: Garifuna kinship terms exhibiting the frozen nominalizer

I argue that the proto-CNA subject nominalizer was available for both verbal and non-verbal predicates; the analytical meanings for *áruguti* 'grandfather' likely originally being 'one who is the progenator' historically. The terms *amarieiduti* 'bridegroom' and *amarieidutu* 'bride' are demonstrably related to the verb *amarieida* 'marry', so more straightforwardly relatable to the subject nominalization construction. For the other CNA languages, kinship terms more widely exhibit reflexes of the subject nominalizer. I propose the same mechanism for the conventionalization of this suffix for kinship terms for the other CNA languages.

Lokono Lokono is the only CNA language that productively uses reflexes of the subject nominalizers, $-t^hi$ and $-t^hu$ (Lokono -thi and -tho) in subject relativization. The fact that this relativization strategy is synchronically productive in Lokono provides evidence for an analysis where this construction was present in proto-CNA. The modern distribution of the frozen reflexes the subject nominalizer in the other CNA languages falls out of attributing subject relativization to proto-CNA. Here, I discuss the modern Lokono distribution of these clauses to show they are truly relativizations.

In clauses where Lokono -thi and -tho serve as the relativizer, these suffixes appear on the relative verb, and the subject serves as the target of relativization. These constructions can be either headed or headless, allowing for a nominalization analysis. Because a verb carrying the subject nominalizer can stand in argument position without the relativized noun, it can be interpreted as the argument, itself, on some level of analysis. Example (24) shows a headed relative clause, where li wadili 'the man' is the subject of the relative verb, and the target of relativization, preceding the relative verb. The verb dia 'speak' carries the masculine version of the subject relativizer -thi, which agrees with the relativized noun.

Lokono

```
li wadili dia -thi jon ...
li wadili dia -thi jon 3.SG.M man speak -REL.M there
'The man who spoke there ...'
(Pet, 1987)
```

Similarly, example (25) shows a headed relative clause, this time built on the stative predicate firo 'be big', where aba kabadaro 'a jaguar', subject of the relative verb, serves the target of relativization. Here, the relative verb precedes the relativized noun, but follows its determiner, maintaining VS word order for stative predicates as in main clauses. The subject nominalizer -tho agrees with the feminine target of relativization.

```
(25) aba firotho kabadaro ... Lokono
aba firo -tho kabadaro
one be.big -REL.F jaguar.F

'a big jaguar (or, a jaguar which is big)'
(Pet, 1987)
```

Example (26) shows a headed relative clause that is marked for future tense, and like in the last two examples, the target of relativization (here *hiaro* 'woman') is the subject of the relative verb. The relative suffix *-tho* agrees with the relativized noun in gender. The future suffix attaches outside the relative suffix.

```
(26) to hiaro sokothofa ada ...

to hiaro soko -tho -fa ada
the woman chop -REL.F -FUT wood

'the woman who will chop the wood...'
(Pet, 1987)
```

Finally, example (27) shows a headless relative clause based on the verb kaky 'live' and the suffixal relativizer -tho. The free translation 'two women' is available because -tho is marked for feminine gender, and any subject of the verb kaky is necessarily living; there is no overt relativized noun here.

```
bian kaky-tho-be
bian kaky -tho -be
two live -REL.F -PL
'two women', literally, 'two female living things'
(Pet, 1987)
```

Like Garifuna, Lokono additionally exhibits a number of nouns that are demonstrably related to verbs in the language and contain a frozen form of the nominalizer. Table 2.7 is a replication of a partial list of such nouns collected in Pet (1987). Like in the case of synchronic nominalizations, these carry the suffixes -thi and -tho, though the nouns they derive appear to have become conventionalized. We find that the syntactic relationship between the verb from which the noun is historically derived and the derived noun is that of subject, just as it is for Garifuna, whether or not there is an available synchronic nominalization process. Examples like these, and similar examples in the other CNA languages suggest a common source for nouns exhibiting the frozen nominalizer. Since we can show that these examples involve the nominalizer in Lokono, these examples provide evidence they do in Garifuna, as well.

VERB	NOUN
malhitan 'to create'	malhita <u>thi</u> 'creator'
kakyn 'to live'	kaky <u>tho</u> 'woman'
dian 'to speak'	dia <u>thi</u> 'speaker'
ajomyn 'to be high'	ajomyn <u>thi</u> 'God'
hehen 'to be yellow'	hehe <u>thi</u> 'yellow one'

Table 2.7: Lokono nouns exhibiting the frozen nominalizer from Pet (1987)

Finally, Pet (1987) also points out that a number of kinship terms exhibit -thi and -tho endings (shown in Table 2.8), but that the roots of these are not synchronically segmentable. For example, the Lokono word for wife eretho ends in -tho, but Lokono exhibits no verb ere from which the term might be derived. Wayúu, Añun, and Garifuna exhibit the cognate forms eerüin, eri, and jierü, respectively, though only the Lokono term exhibits the frozen nominalizer. As suggested above for Garifuna, a possible avenue of analysis for this distribution is that the subject relativize nominalizers -thi and -tho were available for relativizations built on non-verbal clauses, allowing for the suffix to appear on verbal and non-verbal predicates. Historically, then, the Lokono term eretho could have meant 'one who is a wife'. Because the subject of a headless relative clause is null, the ambiguity that exists for relativized verbs is

also for present relativized nominal predicates, and the relative ending that carries gender and number features is available for reanalysis as nominal gender number morphology just as it is for verbal predicates.

KINSHIP TERM	GLOSS
$da\underline{thi}$	'my father'
$dai\underline{thi}$	'my son'
$da(e)re\underline{thi}$	'my husband'
$da(e)re\underline{tho}$	'my wife'
$doki\underline{thi}$	'my younger brother'
$doki\underline{tho}$	'my younger sister'
$daboki\underline{thi}$	'my older brother'

Table 2.8: Lokono kinship terms exhibiting the frozen nominalizer from Pet (1987)

To summarize, Lokono is both the only CNA language to exhibit a synchronic subject nominalization process utilizing the morphemes under discussion, and the only CNA language not to exhibit the suffixal subject-marking construction. Like Garifuna, the nominalizer also appears frozen in nouns that are historically related to verbs.

Wayúu The distribution of the nominalizer is much less widespread in Wayúu than it is in Garifuna and Lokono, but it is attested in similar domains, frozen in nouns demonstrably related to verbs with the participant role of subject, and in kinship terms. An exhaustive summary of forms exhibiting a reflex of the proto-CNA nominalizer follows in Table 2.9.

DERIVED NOUN	GLOSS
a chonya a shi	'adopted child (M)'
$a chonya a s \ddot{u}$	'adopted child (F)'
aleshi	'brother-in-law'
$ap\ddot{u}shi$	'relative'
ashi	'father', 'paternal uncle'
atuushi	'grandfather'
$ala\"{u}lashi$	'chief (M)'
$ala\ddot{u}las\ddot{u}$	'chief (F)'
anashi	'good one (M)'
outshi	'healer (M)'
$outs\ddot{u}$	'healer (F)'

Table 2.9: Wayúu nouns exhibiting the frozen nominalizer

The only forms demonstrably related to verbal roots from this list are *alaülashi* and *alaülasü* 'chief', derived from *laülaa* 'be old', and *anashi* 'good one' from *ana* 'be good',

though I speculate *outshi* and *outsü* are at least historically derived from a verb for 'heal'—the Garifuna term for 'to heal/treat with medicine' is *ousera*, which is plausibly related. The list here exhibits more vocabulary items with the masculine ending than the feminine one. It is not clear if this is the result of an actual lexical gap, or an artifact of lexicographic coverage. The primary dictionary consulted (Captain and Captain, 2005) exhibits forms for both masculine and feminine lexical items when there are terms for both, but when a semantic distinction occurs given a gender difference, it is unclear whether there might exist a parallel form elsewhere in the lexicon that simply was not recorded (e.g., 'paternal uncle' vs. 'paternal aunt'). Though significantly less widespread than in Garifuna and Lokono, the attestation of nouns carrying the frozen nominalizer serve as evidence that the nominalizer existed in proto-CNA, which is central to the arguments developed here.

Añun Nouns exhibiting a reflex of the subject nominalizer are even more sparsely attested in Añun, but those nouns that do exhibit a reflex of the nominalizer encode the same domains of meaning as those found in the other CNA languages. Specifically, most nouns exhibiting a reflex of the nominalizer in Añun are kinship terms, as seen in Table 2.10, where 'spouse', 'companion', 'husband', and (arguably) 'young man' all fall under this rubric. The other two items listed here both appear to be subject nominalizations built off the verb *jake* 'be new'.

DERIVED NOUN	GLOSS
$\overline{amoyachi}$	'companion'
eichi	'man', 'husband'
$eim\ddot{u}chi$	'spouse'
may iichi	'young man'
$\overline{jakechi}$	'one who is new (M)'
$jaket \ddot{u}$	'one who is new (F)'

Table 2.10: Añun nouns exhibiting the frozen nominalizer

The argument made for the role of relativization of non-verbal predicates in the formation of kinship terms for Lokono can be repeated here. Añun exhibits lexical items that are formally related to amoyachi 'companion' and eichi 'man', 'husband'. The former appears to be derived from the word amoyo 'navel', and the latter appears to be derived from the word ei 'father'. One can imagine a derivation where amoyachi once exhibited a constructional meaning like 'one who is at the navel' that became conventionalized to mean 'companion', and a similar derivation for eichi, where it presumably once meant 'one who is a father' and later developed the conventional meaning of 'man' or 'husband'.

Given the close relationship between the Añun and Wayúu, it is unsurprising to find that Añun lacks a larger number of nouns containing the frozen nominalizer. Very likely, the subject nominalization construction was lost in Añun and Wayúu's ancestor language following reanalysis as verbal morphology, resulting in its current limited distribution.

2.3.3 Summary

Table 2.11 summarizes the synchronic distribution of the subject nominalizer in the CNA languages. We see that every CNA language patterns together except Lokono, which still retains the subject nominalizer as such.

	Añun	Wayúu	Garifuna	Lokono
found frozen in nouns denoting subjects	√	✓	✓	√
found in kinship terms	√	✓	✓	√
synchronically active as nominalizer	X	Х	X	\checkmark

Table 2.11: Summary of the distribution of the subject nominalizer in the CNA languages

2.4 Non-verbal predication in CNA

Non-verbal predication, and, specifically, nominal predication, in the Caribbean Northern Arawak languages is important for the reanalysis of subject nominalizer as verbal agreement morphology, the trajectory I propose for the subject agreement construction. Except for Lokono, the Caribbean Northern Arawak languages do not exhibit a copula, and nouns may serve as predicates if they are clause initial, just like verbal predicates, allowing for ambiguity between nominal gender and number agreement, and verbal agreement morphology. Nominalized verbs, in particular, facilitate this ambiguity, the formal similarity between lexical verb carrying number and gender agreement for subject and nominalized verb carrying number and gender features for referrent being high in these languages.

In this section, I provide a description of nominal predication in the modern CNA languages. It is carried out in the same fashion for Garifuna, Wayúu, and Añun — a nominal predicate simply precedes its subject and exhibits no gender or number agreement unless the nominal predicate is derived. Lokono, the only language not to have developed the suffixal subject-marking strategy, employs a copula in nominal predication, and allows for either the subject or the nominal predicate to be initial.

Garifuna Garifuna nominal predication is carried out by nominal juxtaposition. As in clauses with verbal predicates, word order is strict, where the predicate must precede the subject, unless there is topic or focus extraction, which is morphologically marked. Garifuna is a zero-copula language. Nominal predication does not involve verbal morphology.

Example (28) shows a clause with the nominal predicate *adiahati* 'fisherman' (historically derived from the verb *adiaha* 'to fish') and the proper noun *John* as the subject. Because

the nominal predicate is derived, it carries masculine agreement morphology matching its subject.

(28) Adiahati Pablo/au/amira/ligiya.

Garifuna

Adiahati Pable /au /amira /ligiya fisherman.M John 1SG.MS 2SG.MS 3SG.M

'Pablo/I/you/he is/am/are a fisherman.' (Stark, notebook 1, p.84)

Similarly, example (29) exhibits the derived nominal predicate *surusiatu* 'doctor' and carries feminine agreement morphology that matches its subject *nitu* 'my sister', precisely the type of construction I argue offered the the structural ambiguity necessary for these endings to undergo reanalysis as verbal agreement morphology.

(29) Surusiatu nitu/nuguya/buguya/tuguya.

Garifuna

```
surusiatu ni- tu /nuguya /buguya /tuguya doctor.F 1sg.poss- sister 1sg.fs 2sg.fs 3sg.f
```

'My sister/I/you/she is/am/are a doctor.' (Stark, notebook 1, p.83)

For both example (28) and (29), there is a surface string ambiguity with third person subjects between noun that exhibits gender agreement and verb with subject agreement, as shown for example (28), repeated below with possible interpretations.

(30) Adiahati Pablo.

(31) Adiahati Pablo.

adiahati Pablo fisherman.M Pablo

adiaha -ti Pablo fish -sg.m Pablo

'Pablo is a fisherman'

'Pablo fishes.'

Unlike what we find in the case of the Garifuna subject agreement construction, nominal agreement morphology does not encode person for Garifuna, as we see in example (29), where the suffix -tu agrees in number and gender with its subject, but does not vary with respect to person, regardless of the person of the subject. Agreement morphology exhibited by nominal predicates parallels agreement for the subject construction exhibited by Wayúu and Añun — gender and number alone are encoded on nouns that exhibit gender morphology, and nouns that exhibit this morphology are compatible with free pronominal subjects, as shown by the permissibility of the 1st, 2nd, and 3rd person pronouns in examples (28) and (29).

The historically derived nouns that serve as nominal predicates have the same distribution as other nouns in predicate position. Example (32) exhibits a noun that does not carry gender or number agreement morphology meisturu 'teacher'. Like in the previous two examples, the nominal predicate precedes the subject. Here, the nominal predicate is an old Spanish loan, which might independently explain the lack of gender and number agreement on the noun. However, most nouns in Garifuna are not formally marked for gender and number. It is not a general property of the language. Rather, it is limited to those nouns that are historically derived from verbs. The nouns irahü, 'boy' wiri, 'woman', and wügüri 'man', for example, all work equally well as nominal predicates with no gender or number agreement.

```
(32) Meisturu Lev.

meistro Lev
teacher Lev

'Lev is a teacher.'
(Stark, notebook 1, p.83)
```

In summary, Garifuna is predicate initial in clauses with non-verbal predicates, just as it is in clauses with verbal predicates, and the language exhibits no copula, as I show for Wayúu and Añun below. In all three languages, only those nominal predicates exhibiting the frozen nominalizer exhibit gender and number agreement for their subjects.

Wayúu Nominal predication in Wayúu closely resembles the Garifuna nominal predication. Nominal predicates simply precede their subjects with no copula, as we see in examples (33)–(36). Like clauses with nominal predicates in Garifuna, these clauses take no verbal morphology, and nominal predicates exhibit no number or gender agreement unless they exhibit the suffix related to the proto-CNA nominalizer, as described in §2.3.

We see in example (33) that a first person pronoun serves as subject, following the nominal predicate $Way\acute{u}u$.

```
(33) Wayúu taya. Wayúu taya
Wayúu 1sG

'I am Wayúu.'
(Álvarez, 2014)
```

Similarly, in example (34), the nominal predicate *alijuna* 'creole' precedes its subject and carries no number, gender, or person agreement morphology.

(34) Alijuna ta'wayuusekalü.

Wayúu

```
alijuna t- a'wayuuse -kalü
creole 1sG- wife DEM.SG.F
'My wife is creole.'
(Álvarez, 2014)
```

The same is true for examples (35)–(37). The generalization of predicate initiality is robust — both examples exhibit nominal predicates that are clause initial and subjects that follow these initial predicates.

(35) Jima'ai Kamiirü.

Wayúu

jima'ai kamiirü boy Camilo 'Camilo is a boy.' (Álvarez, 2014)

(36) Nüchon Kamiirü pia.

Wayúu

nü- chon Kamiirü pia 3sg- child Camilo 2sg 'You're Camilo's son.' (Álvarez, 2014)

Example (37) exhibits a nominal predicate that carries morphology related to the proto-CNA suffixal nominalizer found in Table 2.3.2, and it agrees in number and gender with its subject.

(37) Watuushi pia.

Wayúu

w- atuushi pia 1PL grandfather 2SG 'You are our grandfather.' (Álvarez, 2014)

Just like for Garifuna, nominal predicates exhibiting the frozen nominalizer agree with their subjects and other nominal predicates do not.

Añun Nominal predication in Añun patterns with nominal predication in Garifuna and Wayúu. Nominal predicates precede their subjects and exhibit no verbal morphology, as we see in examples (38)–(41).

Example (38) parallels Wayúu example (33) — a first person pronoun follows the predicate $A\tilde{n}un$.

(38) $A\tilde{n}\acute{u}$ te.

Añú te Añun 1sg

'I am Añún.' (Álvarez, 2008)

Example (39) shows the nominal predicate *ayounaa* 'creole' with the second person pronoun as subject.

(39) Ayounaa piya.

Añun

ayounaa piya creole 2sg

'You are creole.' (Álvarez, 2008)

Example (40) exhibits a nominal predicate with a proper noun as subject. Word order and morphology do not change — nominal predicates are initial, followed by their nominal subjects, and carry no agreement unless they are historically derived.

(40) Jümaayi Camilo.

Añun

jümaayi Camilo boy Camilo

'Camilo is a boy.' (Álvarez, 2008)

The same holds for Anun example (41). The nominal predicate is initial, followed by its subject.

(41) Teimüchi piya.

Añun

ta- eimüchi piya 1sg husband 2sg

'You are my huband.' (Álvarez, 2008)

Here, like for Garifuna and Wayúu, the predicate carries the frozen nominalizer and so agrees in person and number with its subject.

Lokono Nominal predication is carried out similarly in Lokono. However, word order is not strictly predicate initial, a somewhat surprising fact, given that Lokono word order is strict in clauses with verbal predicates, and stative predicates precede their subjects. I conjecture that the examples with initial subjects reported here are likely topicalization constructions, as discussed below. Lokono additionally exhibits a copula to which appears to be historically related to the demonstrative in the language of the same phonological shape, as discussed in the following section. As in the case of Garifuna, nominal predicates do not carry any verbal morphology. The copula itself does not carry TAM features. Notably, Lokono is the only CNA language to have developed a copula, and it is the only CNA language not to exhibit the subject agreement construction described in §2.2 of this chapter. The bridging construction I propose for the CNA languages that have developed the suffixal subject agreement described in this chapter is a clause with a derived nominal predicate and no copula. Because Lokono does not exhibit this construction, it was not a candidate for the development of the suffixal subject-marking construction in the first place.

We find in examples (42) and (43) predicate-initial clauses with nominal predicates, similar to the word order we find in Garifuna clauses with nominal predicates, and the expected word order for stative predicates in Lokono, as discussed in §1.4. In both cases, the form of the copula remains the same — it does not agree with the number, gender, or person of the subject of the predicate.

(42) Nederland khondo to de ojo.

Lokono

Nederland khondo to de ojo Netherlands inhabitant COP 1.SG mother

'My mother is Dutch.' (Pet, 1987)

(43) Bylhytalhin ron to dathi.

Lokono

Bylhyta -alhin ron to da -thi scratch -one.who.habitually.does only COP 1.SG -father 'My father is only a writer (i.e. has no other profession).' (Pet, 1987)

In examples (44)–(47) the clauses are subject, and not predicate, initial. These constructions may be topic constructions with a fronted, topical subject — in every example except (44), the subject is marked with a demonstrative, which signals topicality in Lokono.

(44) De to bylhytalhin.

Lokono

De to bylhyta-alhin 1.sg COP write -one.who.habitually.does 'I am a writer.' (Pet, 1987)

(45) Toho to aba kakosiro.

Lokono

toho to aba kakosiro this COP one deer 'This is a deer.' (Pet, 1987)

Examples (46) and (47) exhibit predicates that carry endings related to the suffixal nominalizer. Notably, these predicates are sentence final, and a copula intervenes between them and their subjects, making them unavailable for reanalysis as verbs — they do not appear syntactically where verbal predicates do, and they exhibit morphology not found in clauses with verbal predicates, namely, the copula to.

(46) Tora hiaro to daretho.

Lokono

tora hiaro to da- retho that woman COP 1sg- wife

'That woman is my wife.' (Pet, 1987)

(47) Lira wadili to darethi.

Lokono

lira wadili to da- rethi that man COP 1.SG- husband 'That man is my husband.' (Pet, 1987)

We find Lokono to be the only CNA language to exhibit a copula. This copula is diachronically related to a demonstrative, and is not exhibited by any other CNA language. If examples (44)-(47) are pragmatically unmarked, Lokono is additionally the only CNA language to exhibit subject-initial clauses with nominal predicates. However, I suspect these examples to be topic constructions, where the subject is clause initial precisely because of its topicality, and basic word order to be predicate-initial, like the other CNA languages and like other stative predicates in Lokono.

Summary Summarizing this section, and shown in Table 2.12, the CNA languages all exhibit clauses with nominal predicates. For Garifuna, Wayúu, and Añun, nominal predication is carried out by word order, alone, where a nominal predicate is initial and followed by its subject. Lokono is the only CNA language to exhibit a copula, and the only language to permit initial subjects in these constructions if we believe the examples from Pet (1987) to be pragmatically unmarked. Additionally, every CNA language exhibits nominal predicates that carry a reflex of the proto-CNA subject nominalizer, frozen or not. In the following section, I will use these facts to argue that proto-CNA exhibited initial nominal predicates, and that a deverbal noun carrying the subject nominalizer could serve as predicate in this clause type, and that this allowed for reanalysis of the subject nominalizer as agreement morphology.

	Añun	Wayúu	Garifuna	Lokono
copula present	Х	Х	Х	✓
predicate initial	√	✓	✓	✓ (absent topic fronting)
person and number agreement possible	√	√	√	\checkmark

Table 2.12: Summary of nominal predication in CNA

2.5 Diachronic development

In this section, I propose a diachronic trajectory for the suffixal subject person-marking construction we find in the modern CNA languages and reconstruct their diachronic sources for proto-CNA. I propose that proto-CNA exhibited a subject relativization strategy like the one synchronically present in Lokono, as well as a non-verbal predication construction like the one present in modern Garifuna, Añun, and Wayúu, and that the presence of these two

constructions together allowed for the reanalysis of the suffixal subject nominalizer as verbal morphology.

I draw upon evidence from the information structural properties of copular clauses and nominalizations to support my analysis. Specifically, I argue that the use of a free relative clause as predicate in a non-verbal clause historically exhibited marked information structural properties, like those found in specificational copular clauses cross-linguistically, where a free relative often serves as a topical predicate in specificational constructions. The loss of this marked information structural status facilitated a change from nominal to verbal morphology in Añun and Wayúu. Garifuna maintains a marked information structural status, leading to the marginal nature of this construction in the language. Lokono's development of a bonafide copula blocked the development of a suffixal subject construction altogether, and the proto-CNA relative clause construction is maintained. Topic constructions in CNA are examined to further support this analysis.

Finally, I turn to the phonological properties of the suffixal person-marking systems. The third person masculine endings are cognate across the languages that exhibit them (Garifuna, Añun, and Wayúu), but Garifuna exhibits person distinctions that none of the other CNA languages exhibit, and Añun exhibits an additional third person feminine morpheme that is unexpected given regular sound correspondence across the CNA languages. For Garifuna, I argue that the development of person-marking distinctions is an analogical change based on a suffixal verbal person-marking system not found in the other three CNA languages. Evidence for this analysis comes from suffixal person-marking paradigms in modern Garifuna, and from languages outside the CNA branch of Arawak that maintain similar strategies. For Añun, I argue the morphemes involved in suffixal subject marking spread from the verbal paradigm, and that this change may have been partially facilitated by bilinguialism in Wayúu—specifically, a phonological merger in the shape of the third person masculine verbal suffix with the third person masculine subject nominalizer in Añun allowed for the third person feminine verbal marker to shift to the suffixal subject-marking construction.

2.5.1 Proto-CNA syntactic constructions

Crucial to my analysis is the presence of both a nominal predication strategy involving an initial predicate and no copula and a subject relativization strategy that exhibited the suffixal morpheme *- t^hi (M) and *- t^hu (F) in proto-CNA. First, I provide arguments for the analysis that proto-CNA was predicate initial, and exhibited no copula. Then, I argue that proto-CNA exhibited the subject relativization strategy discussed in §2.3. Bringing these analytical facts together, I then trace the diachronic development of the suffixal subject-marking strategy in the CNA languages.

Predicate initiality in CNA The reconstruction of word order for language families is somewhat controversial (Lightfoot, 1979; Harris, 2008; Campbell and Harris, 2002; Barðdal,

2013), but the time depth at which the CNA languages are related is relatively shallow (roughly 1200 years for proto-CNA, 1000 years for TA-Arawak, and 500 years for proto-Añun-Wayúu (Stark, 2017), and the branching structure of the clade is such that VSO word order (predicate initiality) is very likely a retention in Garifuna, Añun, and Wayúu, and deviations from that word order in Lokono are likely innovative. Since Lokono, Añun, and Wayúu form a subgroup to the exclusion of Garifuna, the likelihood that a deviation in word order happened in Lokono, only, is a more parsimonious scenario in a simple majority-rules-style analysis.

Lokono has been shown to have undergone an analogical process in its pronominal system, where bound person markers have influenced the free pronominal paradigm, leading to a active-stative split encoded in Lokono's word order (§1.4). Prefixal person markers that encoded an A or S_a argument have been shown to have influenced word order in free nominal arguments (de Carvalho, 2016), providing good support for an analysis where proto-CNA was historically predicate initial like Garifuna, Wayúu, and Añun. Further, every CNA language exhibits nominal predicate constructions that are predicate initial, even if Lokono also allows for subject initiality in these constructions.

Looking outside Northern Arawak, we find that predicate initiality is the overwhelming pattern exhibited by the language family, though a marked discourse allows for a variety of word orders in most Arawak languages (Aikhenvald, 1999). However, the Northern Arawak languages tend not to be predicate-initial, with many exhibiting the Lokono pattern of SVO in transitive clauses, SV in active intransitive clauses, and VS in stative intransitive clauses (Aikhenvald, 1999). This pattern is summarized in Table 2.13. I argue that this pattern is innovative (= does not reconstruct to proto-Arawak), and that the Lokono change was independent from the rest of Northern Arawak.

	Garifuna	Añun	Wayúu	Lokono	Achagua	Baniwa	Wapishana	Palikur
	VSO	VSO	VSO	SVO	SVO	SVO	SVO	SVO
active	VS	VS	VS	SV	SV	SV	SV	SV
stative	VS	VS	VS	VS	SV	VS	VS	SV

Table 2.13: Northern Arawak word order

Following Hawkins (1994, pp. 95-106), I assume that a change which separates verbal arguments from the verb itself increases processing load, and is therefore less likely than the reverse change — because VSO word order separates the verb from its object, the claim is that a change in word order with this output (e.g., SVO \rightarrow VSO) is unlikely because it puts a higher processing load on a language user. Under this view, the most parsimonious word order reconstruction for proto-CNA is VSO, where Lokono underwent a word order change VSO \rightarrow SVO that allowed for adjacency between a predicate and its arguments, decreasing processing load for that construction.

Further, the left edge of the clause is a topic position for the CNA languages (and many other languages, cross linguistically), as shown for Garifuna in (48), where the topical constituent

sits at the left edge of the clause.⁵ Given the close relationship between subjects and topicality cross-linguistically (Li and Thompson, 1976), it is unsurprising for subject-initiality to emerge multiple times in Arawak, while the reverse change lacks a plausible bridging context for such a reanalysis to occur.

(48) Wagiya hiyaru mosu wegi üdüraü.

Garifuna

```
wagiya hiyaru [_{TP} mosu wegi üdüraü ] 1.PL girl must 1.PL- eat fish 'As for us girls, we must eat fish.' (Stark, Notebook 2, p.19)
```

A final argument in favor of reconstructing predicate initiality for proto-CNA comes from the branching structure for Arawak derived by a large lexical phylogenetic analysis carried out by Walker and Ribeiro (Walker and Ribeiro, 2011). The structure derived from this work identifies Northern Arawak coherently, but fails to identify Southern Arawak, suggesting that properties of the Southern Arawak languages that link them typologically (e.g., predicate-initiality (Aikhenvald, 1999)) are retentions from proto-Arawak. In the Walker and Ribeiro analysis, CNA is one of the earliest groups to branch off from Northern Arawak, allowing for a logical possibility where CNA retained predicate-initiality, like the southern Arawak supgroups that exhibit that feature, and unlike many other Northern Arawak languages.

Zero copula nominal predication in proto-CNA I next argue that proto-CNA exhibited a zero-copula nominal predication strategy. Recall that, to the exclusion of Añun, Wayúu, and Garifuna, Lokono exhibits a copula. Again, given the known structure of the CNA branch of Arawak, where Lokono, Añun, and Wayúu form a subgroup to the exclusion of Garifuna, the likelihood is that a morphological irregularity exhibited by Lokono, only (here, the presence of a copula), will be an innovation, rather than a retention following an analysis that appeals to parsimony, the alternative analysis being that the proto-CNA copula was independently lost twice in the history of the language group: once in Garifuna, and once in proto-Añun-Wayúu.

The synchronic presence of a copula in Lokono can be directly tied to a demonstrative pronoun in the language, and I argue that this is not a retention from proto-CNA, but rather an innovation in Lokono. Demonstrative to copula is an established grammaticalization trajectory (Pustet, 2003; Heine and Kuteva, 2004), and the source construction for the grammatical change is clear: a nominal predicate followed by a subject introduced by a demonstrative pronoun followed by a reanalysis of this demonstrative as a copula. The language still exhibits the strategy of introducing a nominal argument with a demonstrative, as shown in example (49), and I have just argued for predicate initiality in proto-CNA.

⁵Fronted topics exhibit person marking on the verb, in contrast with fronted focal constituents.

(49) Lirabo sokofa **to** ada.

Lirabo soko -fa to ada he.there chop -FUT DEM tree

'That man over there will chop that tree.' (Pet, 1987)

Additionally, looking outside the CNA subgroup, we find that the other Northern Arawak languages tend to be zero copula, and that those languages with copulas do not exhibit copulas cognate to the Lokono form, suggesting that they, like Lokono, innovated copulas.

Garifuna	Lokono	Añun	Wayúu	Achagua	Baniwa	Wapishana	Palikur
no copula	to	no copula	no copula	no copula	áa	no copula	no copula

Table 2.14: Northern Arawak copulas

Subject relativization in proto-CNA I have just argued that proto-CNA was predicate initial and exhibited no copula. I will now argue that proto-CNA exhibited the subject relativization strategy discussed in §2.3 of this work. Bringing these typological properties together, I argue that a clause where a subject nominalization served as nominal predicate allowed for the reanalysis of nominalization morphology as agreement morphology.

As discussed in §2.3, the Caribbean Northern Arawak languages all exhibit traces of the subject relativization construction involving the subject nominalizer, and this construction is synchronically still active in relative clause formation in Lokono. Given the modern distribution of forms exhibiting traces of this morphology, I propose that proto-CNA exhibited this relativization strategy, and that it lost productivity to varying degrees in Garifuna, Wayúu, and Añun.

The presence of this relativization strategy in proto-CNA is important to my analysis because I rely on the information-structural properties of clauses with non-verbal predicates — including especially free relative clauses as predicates — in my analysis of the development of the suffixal subject-marking construction in the modern CNA languages.

Outside the CNA subgroup of Arawak, we find that several languages exhibit this subject relativization/nominalization construction, supporting an analysis where it was present in proto-CNA (Aikhenvald, 1999).

2.5.2 Information structural properties of copular clauses and nominal predication

Much work has been carried out focusing on the information structural properties of copular clauses. Here, I first argue that nominal predication in zero-copula languages falls under the analytic framework of copular clauses. Subsequently, I outline the information-structural properties that have been established for copular clauses cross-linguistically. This is important to my analysis because I argue that the change from subject nominalizer to suffixal subject agreement was facilitated in Wayúu and Añun by the loss of marked pragmatics in a construction that formerly exhibited a topical predicate, and that the modern verbal suffixal subject construction in Garifuna retains a marked pragmatic status.

Pustet (2003) defines a *copula* as "a linguistic element which co-occurs with certain lexemes in certain languages when they function as predicate nucleus. A copula does not add any semantic content to the predicate phrase it is contained in" (p. 6). The relevant part of this definition to the work at hand is the fact that copulas must be semantically empty. It has been observed that languages that exhibit no copula but that exhibit non-verbal predication fall under the scope of theories of copular clauses for this very reason (Pustet, 2003). Mikkelsen (2005) suggests that the difference between a copularizing language and a non-verbal predicate language might be related to the subcategorization possibilities of a functional verbal head in a given language: if there is structural pressure for a clause to exhibit a verbal element, then the language will be copularizing. If it may select directly for a non-verbal predicate, then it will be a zero-copula language. While the CNA languages exhibit non-verbal predication rather than copular clauses (except for Lokono), I follow Pustet (2003) and Mikkelsen (2005) in discussing non-verbal predication in the theoretical framework of copular clauses.

For the purpose of this work, it is worthwhile to distinguish between two types of copular clauses: those which are predicational and those which are specificational. Predicational copular clauses predicate some property of their subjects. Specificational copular clauses delineate a set of properties that holds of a single individual and then fill in the specific individual for which that set of properties holds. In English, predicational copular clauses exhibit a definite, referential subject, like a pronoun or a proper noun, and specificational copular clauses exhibit a non-referential subject, typically a definite description or a free relative.

Predicational copular clauses exhibit unmarked pragmatics. English specificational copular clauses are argued to exhibit topical predicates and focused subjects (Higgins, 1979; Mikkelsen, 2005), leading to an inversion construction where a topical predicate exceptionally occupies subject position, allowing for subjects that are definite, referential descriptions as mentioned above. Examples of English predicational and specificational copular clauses with their associated information-structural properties follow in examples (50) and (51).

- (50) DP_{ref} DP_{pred} John is the teacher. TOP be FOC
- (51) DP_{pred} DP_{ref} The teacher is John. TOP be FOC

Before turning to CNA nominal predication, the general information structural properties for these copula clause types are summarized in Table 2.15, below.

	Topic	Focus
Predicational copular clauses		
Specificational copular clauses	DP_{pred}	DP_{ref}

Table 2.15: Information structure in copular clauses

Borrowing from this framework, my proposal is that proto-CNA non-verbal predication that exhibited subject nominalizations as predicate were historically constructions where the predicate was topical, parallel to English specificational copular clauses. Given that the headless relative clauses discussed in §2.3 serve to delineate a set of properties that holds of a single entity, they serve the function of specification. This proposal is schematized for the constructed pre-Garifuna example in (52). While the CNA languages exhibit different basic word order from English, and every language but Lokono lacks a copula, the pragmatics associated with nominal predication holds.

(52) DP_{ref} DP_{pred} adiahati Pablo.

TOP FOC

'The one who fishes is Pablo.'

Further, Plemenitaš (2015) argues that nominalization is often specifically used as a strategy to allow a verbal element to serve as topic. Because nominalization was historically the mechanism for carrying out subject relativization in the CNA languages, a relative clause has the special ability to serve as a topic in the CNA languages. Note, however, that nominalizations do not necessarily need to be topical — many Amazonian languages use nominalization as a subordination strategy in pragmatically neutral contexts. The insight is that a derivational change in lexical category makes nominalized verbs *eligible* for topicality, as topicality is a feature prototypically associated with nouns and focus is prototypically associated with verbs. The eventual change in the marked pragmatics of these constructions, along with the presence of any already verbal root then allowed for their reinterpretation as verbs carrying subject agreement morphology.

Evidence for this proposal comes from the distribution of verbs using the suffixal subject-marking strategy in Garifuna. Synchronically, suffixal subject marking in the language occurs in restricted discourse contexts, specifically, at the beginning of a new narrative, and at points within a narrative where a new context-dependent time and place is established. The term event stage has been used to denote implicit sentence topics that indicate the spatio-temporal parameters of a sentence (Reinhart, 1981; Erteschik-Shir, 1997, 2007). Prendergast (2012) links the discourse settings in which you find the Garifuna suffixal subject strategy to new event stage — when the contextually relevant time and place in which an event occurs changes, the suffixal subject marking strategy is used, in contrast with the subject prefixing verb stem (Prendergast's conjunctive verb stem), which is used when this contextually established time and place is continuing (Prendergast, 2012) (p. 8):

When this stage is shifted or reevaluated, or when a new stage is introduced, verbs from the finite paradigm [e.g., suffixing verb stems] are used instead. This demonstrates a strong correlation between continuing, topical stage and the use of the conjunctive verb stem.

This distribution is demonstrated in the following excerpt from the beginning of a narrative about a consultant's family:

(53) Nuquchu ... redutu muna keisi housewife.

```
nu- uguchu redu -tu muna keise housewife
1SG- mother stay -3SG.F house like housewife
'My mother ... she stayed in the house like a housewife.'
```

(54) Aba tamaniha tou muna waqiya.

```
aba t- amaniha t- ou muna wagiya
then 3SG.F- care 3SG.F- LOC house 1PL
'She took care of the house and us.'
```

We see that in the first line, the verb redu 'stay' carries the suffixal person marker -tu, and in the next line, the verb amaniha 'care for' carries prefixal person marking. Again, the analysis is that the suffixal verb stem is used when introducing new narrative stage, and that the prefixing verb stem is used in contexts where narrative stage is continuing.

The subject construction is additionally the default verbal form offered in an elicitation setting, which I suggest artificially acts as the beginning of a new narrative each time a new sentence is elicited.

I argue that the modern distribution of the Garifuna suffixing verb stem, and its association with new stage is a relic of the topicality associated with the specificational construction in

proto-CNA. When the suffixal relativizer was reanalyzed as verbal morphology, the association with topicality shifted to an association with new event stage, a notionally similar pragmatic category that can hold of verbs.

2.5.3 Diachronic pathway from relativizer to agreement

To summarize, a neutralization in participant role that deviates from core active-stative alignment for the CNA languages appears to have been facilitated by the diachronic presence of predicate-initial, zero-copula, nominal predicate clauses and the presence of a subject relativization strategy that allowed for headless relative clauses in predicate position with marked information structural status. The loss of this marked status facilitated the reanalysis of the suffixal nominalizer as verbal agreement in Wayúu and Añun. Garifuna maintains it as new stage. In this section, I specifically outline the diachronic trajectory I propose for each of the CNA languages that exhibits this strategy.

Garifuna In the case of Garifuna, the proposal is that a clause with a topical, nominal, specificational predicate was reanalyzed as a clause with a verbal predicate with the special pragmatics of new stage on the basis of the extreme semantic similarity of the meanings associated with these two clause types: for the former, the property of being a person who habitually carries out some particular action is asserted to hold of a particular person (e.g., The one who fishes is Pablo.), and for the latter, a verbal predicate is predicated of that person directly (e.g., Pablo fishes). The claim is that Garifuna clause structure is so similar for verbal and nominal predicates, and the semantic similarity between these two constructions is so strong, that reanalysis of the subject nominalizer as agreement morphology was highly available. The shift in pragmatics from topic to new stage is argued to be a product of the information structural associations that can hold of nouns and verbs, where topicality is prototypically associated with nouns, and not verbs, and new stage can be established with a verb. Having undergone reanalysis from nominalized verb to verb carrying agreement morphology, the marked pragmatics of the original construction resulted in the modern marginality of the subject agreement construction. The change itself, along with the spread of person distinctions across this paradigm, is argued to be analogically motivated — the presence of another suffixal person-marking paradigm that exhibits extreme phonological similarity to the suffixal subject marking (-tina) paradigm is examined as evidence for this claim.

Examples (55) and (56) schematize the endpoints of the diachronic reanalysis I propose here, where the reanalysis of the subject nominalizer as verbal agreement morphology involves a change in morphological category from subject nominalizer exhibiting agreement morphology for the noun it modifies to agreement morphology, only, and the topicality associated with the nominal predicate is retained as the related pragmatic category, new stage, which can hold of verbal predicates.

Adiahati Pablo. pre-Garifuna Adiahati Pablo. modern Garifuna (55)(56)adiaha -ti -ti Pablo Pablo adiaha fish fisherman -NOMZ.SG.M Pablo -sg.m Pablo NEW STAGE 'The one who fishes is Pablo' 'Pablo fishes.' >

I propose that the change from suffixal subject nominalizer to person marker was analogically driven. Garifuna exhibits a second suffixal verbal person-marking paradigm unrelated to the one discussed so far in this chapter, but very similar in phonological shape, and used when the verbs to which they are attached exhibit perfect aspect. Suffixal person markers belonging to this paradigm contain -di as a morphological base, and exhibit a full range of person, number, and gender distinctions, like the suffixal person-marking paradigm containing -ti, and unlike the suffixal person markers exhibited by Añun and Wayúu. These two Garifuna paradigms are presented in Tables (2.16) and (2.17).

	SING	PL
1	-dina	-diwa
2	-dibu	$-di\widetilde{ja}$
3M	-li	$-di\widetilde{ja}$
3F	-ru	$-di\widetilde{ja}$

Table 2.16: Garifuna -dina suffixal person marking paradigm

	SING	$_{ m PL}$
1	-tina	-tiwa
2	-tibu	$-ti\widetilde{ja}$
3M	-ti	$-ti\widetilde{ja}$
3F	-tu	-tija

Table 2.17: Garifuna -tina suffixal person marking paradigm

In Modern Garifuna, verbs that carry suffixal person markers with the base -di exhibit perfect aspect, as in (57).⁶

(57) Arúmugadina.
arúmuga -dina
sleep -1.SG
'I slept (at some well defined time in the past).'
(Haurholm-Larsen, 2015)

 $^{^{6}}$ It is descriptively insufficient to analyze the particle -di, itself, as perfect aspect because third person suffixes in this paradigm do not contain this string. Rather, as with the -tina paradigm examined here, speakers consider -di to be a part of the person suffix, itself.

Comparing Tables (2.16) and (2.17), we see that the phonological shape of the suffixal person markers in each paradigm differ only in voicing except in the third person, where the -dina paradigm exhibits -li and -ru, rather than the expected -di and -du.

Considering 1) the close phonetic similarity between -di and -ti, 2) the fact that both are verbal suffixes, and 3) the availability of both to be carried by verbs appearing predicate position, I propose that the person distinctions in the -ti paradigm developed because of analogical pressure from the person distinctions in the -di paradigm, which retained person distinctions from proto-CNA.⁷ The basic analogical change I propose is exemplified in (58), where the first person marker -na is spread to the predicate $ar\'{u}mugati$ on analogy with the morphological base, $ar\'{u}mugati$. The same process applies to the second person.

(58) arúmuga -di : arúmuga -dina :: arúmuga -ti : arúmuga -tina

This proposal relies on the string V+-di being the morphological base for non-third-person suffixal person markers in the perfect paradigm on some level of analysis. Given that the first and second person suffixes in this paradigm are decomposable as -di+PERSON, I argue that this condition is met. The fact that -ti and -tu are retained as third person singular masculine and feminine markers falls out of this analysis. The fact that the subject nominalizer already encoded gender and number, but not person, allowed for a default reading as third person. When the non-third person distinctions of the -di paradigm spread to the -ti paradigm, this reading was conventionalized.

Wayúu and Añun For Wayúu and Añun, the development of the suffixal subject-marking strategy was very likely a joint innovation. The two languages are very closely related, and exhibit strikingly parallel syntactic constructions synchronically. For these languages, the analysis is similar to the one for Garifuna — the presence on a nominal predicate construction where a verb carrying the subject nominalizer served as predicate facilitated the reanalysis of this morpheme as verbal agreement. For Wayúu and Añun, however, recalling that no person distinctions exist in the suffixal subject-marking paradigms for these languages, I suggest that the reanalysis was driven by a change in the pragmatic status of the non-verbal predicate, only, and not necessarily by the influence of an external suffixal paradigm. Parallel to Garifuna examples (55) and (56), Wayúu examples (59) and (60) and Añun examples (61) and (62) model this process, where, again, the small semantic distinction and the presence of a lexical verb carrying agreement morphology facilitated reanalysis of the nominalizer as verbal agreement morphology. Here, however, we see that rather than a change from topicality to new stage, Wayúu-Añun underwent a loss of marked pragmatics, such that topicality is no longer associated with the predicate, and instead focus is, as standardly assumed it should be in pragmatically neutral contexts (Rizzi, 2004).

⁷Suffixal person markers with person, number, and gender distinctions are found all across Arawak, with the same phonological shape.(Aikhenvald, 1999), making it likely these distinctions were lost in proto-Lokono-Añun-Wayúu, but retained in Garifuna.

(59) Ayonnajüchi Kamiirü. proto-L-W-A (60) Ayonnajüshi Kamiirü. Wayúu Ayonnajü -chi Kamiirü Ayonnajü -shi Kamiirü dance -NOMZ.SG.M Camilo dance -sg.m Camilo TOPIC FOCUS 'The one who dances is Camilo.' 'Camilo dances.' (Álvarez, 2014) (Álvarez, 2014) > (62)Anaapeyachi Kamiirü. proto-L-W-A Anaapeyachi Kamiirü. Añun Kamiirü Anaapeya -chi Anaapeya -chi Kamiirü listen -NOMZ.SG.M Camilo listen -sg.m Camilo TOPIC FOCUS 'The one who listens is Camilo.' 'Camilo listens.' (Álvarez, 2008) (Alvarez, 2008) >

Unlike the Garifuna case, the subject-suffixing agreement strategy is not restricted by discourse context, but by aspect. Specifically, the Wayúu endings -fi 3.SG.M and $-s\ddot{u}$ 3.SG.F occur with stems that do not carry tense, aspect, or mood morphology, and are underspecified for these categories. The fact that TAM marking is incompatible with these suffixes serves as evidence for a nominalizer as their diachronic source. Recalling the discussion of clausal nominalization in §2.3, nominalization is cross-linguistically associated with reduced TAM morphology. Like Wayúu, Añun also exhibits suffixal person markers that are recruited for the subject-marking strategy and incompatible with TAM morphology, -i 3.SG.M and $-\ddot{u}$ 3.SG.F. It is presently unclear whether these are diachronically related to the proto-CNA nominalizer — the expected reflexes of this morpheme for Añun are -tfi and $-t\ddot{u}$, which are currently found in the language, but Añun exhibits intervocalic consonant loss under certain conditions, potentially leading to two reflexes of the proto-CNA nominalizer in different morphosyntactic constructions.

The fact that the suffix construction does not exhibit marked pragmatics suggests that the loss of topicality associated with the predicate in this construction for Wayúu and Añun played a role in the reanalysis of the nominal predicate as verbal. Pragmatic deflation is known to be active in changes in grammatical category (Heine, 2002). In §2.5.2 of this chapter, I argued that predicates carrying the subject nominalizer in proto-CNA were topical, and that the marked pragmatics of the modern Garifuna subject constructions, along with the cross-linguistic association of headless relative clauses, sepecification, and topicality, provide evidence for this analysis. Given that modern Wayúu and Añun do not exhibit marked pragmatics in their subject suffixing constructions, and that pragmatic deflation is known to drive grammatical change, I infer this pragmatic deflation played a role in the reanalysis of the subject nominalizer in proto-Wayúu-Añun. That is, historically, a topical, derived nominal predicate was interpreted as a verbal predicate carrying agreement morphology for its subject. This analysis is schematized below, where at an early stage, the nominal predicate ayonnahutſi 'dancer' is topical. The topicality is then lost, allowing for the reinterpretation of the derived noun as verbal.

1. Ayonnahütfi Kamiirü.

Early proto-Añun-Wayúu

Ayonnajü -t∫i Kamiirü. dance -NOMZ.SG.M Camilo

TOPIC Camilo.

'The one who dances is Camilo.'

2. Ayonnahütsi Kamiirü.

Middle proto-Añun-Wayúu

Ayonnajü -tʃi Kamiirü. dance -NOMZ.SG.M Camilo

'Camilo is someone who dances.'

3. Ayonnahütsi Kamiirü.

Late proto-Añun-Wayúu

Ayonnajü -tʃi Kamiirü. dance -NOMZ.SG.M Camilo

'Camilo dances.'

As previously seen in example (18), repeated here as (63), Wayúu and Añun both additionally exhibit the subject construction with a second set of suffixal person markers. This set is shown in Table (2.18) for both Añun and Wayúu, and the set related to the subject nominalizer is shown in Table (2.19) for comparison.

(63) Aya'lajüinjachi pia komputatoora.

Wayúu

Aya'lajüin -ja -chi pia komputatoora buy FUT -SG.M 2SG computer

'You're going to buy a (*the) computer' (Álvarez, 2014)

	Wayúu	Añun
3.sg.m	- <i>t∫i</i>	-t∫i
$3.\mathrm{sg.f}$	-rü	$-r\ddot{u}$
PL	-na	$-n\ddot{u}$

Table 2.18: Añun and Wayúu suffixal person markers unrelated to the relativize nominalizer

I remain agnostic about whether the suffixes in Table (2.18) were inherited from proto-CNA as verbal morphology. If so, it may be the case that analogy played a role in the development of Añun and Wayúu's suffixal subject-marking paradigm, as the *-dina* paradigm likely did in Garifuna's.

	Wayúu	Añun
3.SG.M	- <i>fi</i>	-t∫i
$3.\mathrm{sg.f}$	- $s\ddot{u}$	$-t\ddot{u}$
PL	-∫ii	-in

Table 2.19: Añun and Wayúu suffixal person markers related to the relativize nominalizer

Unlike for the Wayúu and Añun person markers related to the subject nominalizer, the Wayúu and Añun masculine singular suffix from the second set of suffixal person marking morphemes does not appear to exhibit morphology cognate to any masculine singular suffix in Garifuna. The consonant in the morpheme in question, Añun and Wayúu tf is part of a correspondence set where, before a front vowel, Añun tf corresponds to Wayúu tf, Lokono d, and Garifuna r. Before other vowels the expected Añun-Wayúu segment is t. These correspondences are shown in Table (2.20).

Garifuna	Lokono	Añun	Wayúu	Gloss
	fodi	wichiche	juchi'	'monkey'
arigei	dike	achee	ache'e	'ear'
arünaü	duna	atünü	ata	'arm'
eweragua	wedin	eeta	aweta	'vomit'

Table 2.20: Caribbean Northern Arawak set 2 coronal correspondences

We do not find third person masculine suffixal person markers -di in Lokono, or -ri in Garifuna, suggesting that the Wayúu and Añun forms are unrelated to third person masculine suffixes outside their subgroup.

We do, however, find the third person feminine marker -ru in Garifuna, which may be cognate to the third person feminine singular $-r\ddot{u}$ exhibited by Añun and Wayúu, as these languages also exhibit an $r \sim r \sim r$ correspondence, as shown in Table (2.21)

Garifuna	Lokono	Añun	Wayúu	Gloss
ügürügü	shikoro	iruku	e'iruku	'flesh'
jierü	ereitho	eri	eerüin	'wife'

Table 2.21: Caribbean Northern Arawak set 3 coronal correspondences

Lokono As we have already seen, Lokono actively retains the relativization strategy exhibited by the other CNA languages, and has not developed suffixal person markers based on its reflex of the proto-CNA subject nominalizer. I have argued here that the properties relevant to the availability of this diachronic development are predicate initiality and zero-copula nominal predication, both of which Lokono lacks.

2.6 Conclusions

I have shown here that modern suffixal subject agreement in the CNA languages is related to a historical nominalization construction involving a suffixal subject nominalizer that carried gender and number agreement, and that the development of this construction has served to neutralize distinctions in the alignment systems of the CNA languages, which generally exhibit a active-stative alignment. If nominalizations, like the one I propose to reconstruct for the proto-CNA subject relativization strategy, constitute subordinate clauses, we have here a detailed trajectory of one way in which insubordination might be facilitated. The typological properties that allowed for such a development are clustered in the languages of South America, namely: the use of nominalization in relativization, head marking, and zero-copula nominal predication. Given this shared set of properties, I suspect that just this type of change is quite common in the languages of South America, and likely underdiagnosed.

Chapter 3

Auxiliation and ergativity in Caribbean Northern Arawak

This chapter investigates a shift in lexical category from adposition to auxiliary in two Northern Caribbean Arawak languages, Wayúu and Garifuna. While the emergent auxiliaries bear striking similarities in terms of distribution and argument marking — both occur post-verbally and carry prefixal and suffixal verbal agreement morphology — I argue that the innovation is not joint, but independent. I draw on comparative evidence from the Northern Arawak languages subgrouped with Garifuna and Wayúu in extant classifications of the Arawak language family. While Garifuna and Wayúu share a similar typological profile, lexical phylogenetic analyses (cf Chapter 1) and comparative morphological evidence suggests they do not form a subgroup independent of the other Caribbean Northern Arawak languages, providing support for an analysis where each language independently innovated its auxiliary system. As in the case of the development of suffixal person morphology, properties of proto-CNA appear to have made such a development available. The change from adposition to auxiliary is typologically rare, and is not expected in a grammaticalization-theoretic framework. I argue here that insubordination and analogy are the formal mechanisms that allowed for this change in the CNA languages.

3.1 Introduction

An innovative set of auxiliaries has emerged in two members of the Caribbean Northern Arawak (CNA) subgroup of Northern Arawak, Wayúu and Garifuna. While the emergent auxiliaries in Wayúu and Garifuna exhibit an ergative pattern of argument marking, and while both sets of auxiliaries appear to have adpositional diachronic sources, the languages do not appear to have made use of the same adpositions in the constructions relevant to this change in grammatical category, suggesting that this change occurred independently for both

languages. For both Wayúu and Garifuna, the emergent auxiliaries appear to be cognate to adpositions in the other CNA languages that inflect prefixally for their objects. In their auxiliary uses, these lexical items only carry prefixal person markers that cross-reference the subject of a transitive verb, contra the pattern of argument marking discussed in Chapter 1 for main verbs, where the subject of an active, intransitive predicate could also be cross-referenced prefixally. The CNA languages grouped with Wayúu to the exclusion of Garifuna, Añun and Lokono, do not exhibit auxiliaries, but do exhibit adpostions that are cognate to Garifuna and Wayúu auxiliaries, suggesting the Garifuna and Wayúu auxiliaries are diachronically related to these adpositions. Further supporting this claim is the fact that Wayúu synchronically exhibits both adpositional and auxiliary uses for this set of lexical items.

As discussed in Chapter 1 of this work, every CNA language exhibits active-stative alignment. Given this fact, it is inferred that proto-CNA exhibited active-stative alignment, and that deviation from this alignment system in the daughter languages is innovative. Specifically, for the analysis presented here, ergative marking in Garifuna and Wayúu is presumed to be innovative. Support for this inference is found by observing that active-stative alignment is also found in the Northern Arawak languages outside the Caribbean subgroup. Looking to Tariana, for example, we find that the person-marking system also exhibits active-stative alignment, suggesting that active-stative alignment, but not ergative marking on auxiliaries, is inherited in CNA from an earlier ancestral state.

This analysis draws upon comparative morphological data from the CNA languages, Garifuna, Wayúu, Lokono, and Añun, as well as data from Tariana, an outgroup Norhern Arawak language. As discussed in Chapter 1, Lokono and Añun are demonstrably more closely related to Wayúu than Garifuna. Neither language exhibits a similar set of auxiliaries, even though both languages exhibit the set of adpositions from which these auxiliaries apparently developed. Further, neither language exhibits evidence that these adpositions function as auxiliaries, providing more evidence that the change from adposition to auxiliary must have occurred more than once in the history of the CNA languages. The modern Garifuna and Wayúu auxiliaries additionally appear to be related diachronically to separate adpositions, supporting an analysis where the change in grammatical category described here occurred more than once in the CNA languages.

The data examined here are of broad typological interest because the change in lexical category from adposition to auxiliary is very rare. In fact, at the time of writing, I know of no other attested cases of this trajectory. However, the phonological evidence that this change occurred in CNA is very strong, as cognates to the auxiliaries described here are attested as adpositions in Lokono and Añun. A change in lexical category from adposition to auxiliary is not an expected trajectory in the grammaticalization literature (Hopper and Traugott, 2003). Therefore, some mechanism other than grammaticalization must be appealed to here. Garrett (2012) argues that the two mechanisms for change in syntactic category are grammaticalization and analogy, parallel to phonological reduction and sound change in the phonological literature. I argue here that analogy is the formal mechanism that made the two auxiliation processes possible — many Northern Arawak languages exhibit a "dummy verb" a that hosts person markers in subordinate clause structures. This verb is distributionally

similar to adpositions in the CNA languages, in that it follows the predicate and carries prefixal agreement morphology. Further, this verb has been shown to have developed main clauses uses in several Northern Arawak languages, suggesting that *insubordination* — the conventional main-clause use of grammatical structures normally used in subordinate clauses (Evans, 2007) — has played a role in the development of these constructions. I claim here that the main-clause use of this auxiliary created an analogical template for the reanalysis of Garifuna adpositions as auxiliaries. For both Wayúu and Garifuna, I argue that transitive verbs served as the analogical template for the spread of suffixal agreement to auxilaries in these languages.

These data are of further interest because the historical emergence of ergative marking is commonly thought to involve passive constructions in which an oblique marker that historically reintroduced the external argument is reanalyzed as an ergative case marker (Garrett, 1990). Ergative marking in CNA shows no signs of being historically related to a passive construction. In fact, it is not even possible to reintroduce an external argument in a passive construction in modern Garifuna, so this avenue of analysis is not available for the language. The Cariban languages neighboring the CNA languages exhibit ergative marking that has been shown to have arisen from a process of insubordination in which a nominalized clause is reanalyzed as a main clause (Gildea, 1998). I find here that insubordination appears to have played a role in the development of auxiliaries for Garifuna, as well, though Wayúu auxiliaries appear to have emerged as the result of some degree of incorporation into the verbs with which they co-occur.

For both Garifuna and Wayúu, the lexical items I analyze as auxiliaries are post-verbal and carry prefixal and suffixal person markers cross-referencing core verbal arguments. Garifuna auxiliaries generally encode tense and aspect. Here I argue that just one Garifuna auxiliary, umu, developed from an adposition. This auxiliary is shown in example (64), where it hosts prefixal and suffixal person markers. I argue in §3.3 that other aspect denoting auxiliaries analogized to the argument-marking strategy exhibited in example (64) under negation after this auxiliary was incorporated into the tense/aspect system of the language.

(64) Hou lumutu Pablo üdüraü.

Garifuna

hou l- umu -tu Pablo üdüraü eat 3SG.M- AOR -3SG.F Pablo fish

'Pablo ate the fish.'

For Wayúu, three auxiliaries appear to have developed from adpositions: the dative marker ain, the comitative au, and locative o'u. These contribute non-compositional meanings to the verbs with which they co-occur, and have a restricted use in the language. The sense in which they exhibit an auxiliary-like distribution, distinct from other CNA adpositions, is in their ability to take suffixal person markers, like verbs, and like Garifuna umu. An example of auxiliary ain carrying suffixal person marking is shown in (65).

(65) Moto' áinchi nukúoma híntiikai.

```
moto' áin -chi n- ukúoma híntii -kai forget DAT -M.SG.PST 3.SG.M- hat boy DEF
```

'The boy forgot his hat.' \sim 'Forgotten (to him) is the boy's hat.' (Zubiri and Jusayu (1978), p.280)

Table 3.1, below, summarizes the auxiliaries discussed in this chapter, along with their CNA cognates. Items shaded in grey exhibit auxiliary uses — they carry both prefixal and suffixal person markers like verbs. We find that Garifuna and Wayúu both exhibit auxiliaries that are cognate to adpositions in the other CNA languages, and that these adpositions are not cognate to each other.

Garifuna	Lokono	Añun	Wayúu	Tariana	GL oss
a	a	_		a	DUMMY
au		ou	au		SUPERESSIVE
_		ein	ain		DATIVE
_		ou	o'u		LOCATIVE
umu	myn	mo	ümü		BENEFACTIVE

Table 3.1: CNA adpositions with auxiliary uses and their cognate forms

The analysis is broadly structured as follows: for Garifuna, insubordination led to the main-clause use of the auxiliary a as a host for verbal agreement morphology under negation. Because of the phonological similarity between the perfect verb stems (ending in ha) and the auxiliary a, the latter is reanalyzed as the locus of perfect marking under negation. This pattern holds synchronically. On analogy with transitive lexical verbs, which also inflect prefixally for core arguments, auxiliary a developed the ability to carry suffixal verbal agreement morphology. The benefactive adposition umu underwent reanalysis as verbal on analogy with auxiliary a, forming with a a class of morphemes that appears post-verbally, carrying agreement morphology, and developed the semantics of aorist (unmarked) tense.

For Wayúu, I argue that adposition ain was reanalyzed as verbal on analogy with lexical verbs, which also carry agreement marking for core arguments. Suffixal agreement morphology spread on analogy with transitive verbs, and this change in grammatical category spread to at least two other adpositions. The identification of transitive verbs as the template responsible for the spread of suffixal agreement marking is supported by the fact that most CNA verbs exhibit both intransitive and transitive uses — once a grammatical element is perceived to be verbal there is no a priori reason it should not adhere to morphosyntactic patterns that hold generally of verbs. These changes are schematized in the two analogical diagrams in Figures 3.1 and 3.1.

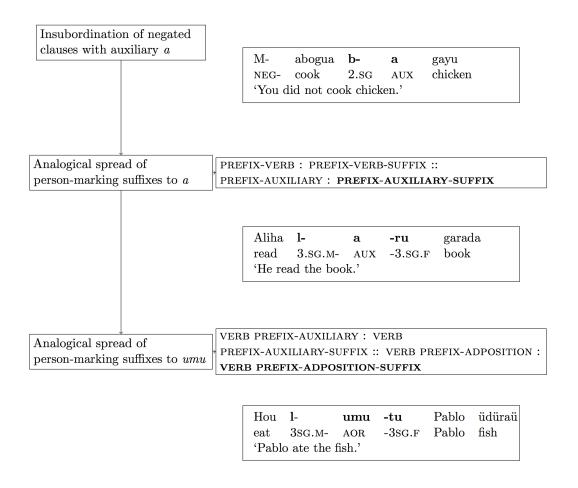


Figure 3.1: Garifuna analogical reanalysis

```
Analogical spread of
                                        PREFIX-VERB: VERB-SUFFIX::
person-marking suffixes to
                                        PREFIX-ADPOSITION: ADPOSI-
adposition ain
                                        TION-SUFFIX
                           Moto'
                                   áin
                                         -chi
                                                     n-
                                                                ukúoma
                                                                         híntii
                                                                                 -kai
                                   DAT
                                         -M.SG.PST
                                                     3.sg.m-
                                                               hat
                                                                         boy
                                                                                 DEF
                           'The boy forgot his hat.' \sim 'Forgotten (to him) is the boy's hat.'
```

Figure 3.2: Wayúu analogical reanalysis

3.2 Marking of core arguments on loci other than lexical verbs in CNA

This section examines the empirical basis of this chapter: namely, exceptional loci of argument marking in the CNA languages, given that argument marking is generally expected to appear on the verb in the Arawak languages. Here, I argue that constructions where argument-marking morphology is carried on some lexical item other than the main verb has led to the reanalysis of these items as verbal for Garifuna and Wayúu. Caribbean Northern Arawak exhibits non-verbal argument marking on both auxiliaries and adpositions. Here, I demonstrate this claim empirically. In the following section, I defend the proposal that the presence of argument marking on adpositions in proto-CNA made the development of auxiliaries from adpositions possible for Wayúu and Garifuna.

The CNA languages are head marking, and argument marking on the verb is the norm for these languages, but every CNA language exhibits person marking for a core argument on some head other than a main lexical verb (either adposition or auxiliary) in at least one construction. Every language exhibits oblique subject marking with a handful of stative predicates where the prefixal person marker encoding syntactic subject is carried by a post-verbal adposition. Añun additionally exhibits person marking for a causer on a adposition in clauses where the main predicate is a stative, quality-denoting predicate. Otherwise, Añun adpositions primarily serve to license noncore arguments. Wayúu exhibits argument marking on a adpositional head in subordinate clauses as well as argument marking of auxiliaries in perfect and present tenses in main clauses. Garifuna exhibits person marking on auxiliary verbs in certain subordinate clauses and in morphologically transitive main clauses under negation, on morphologically transitive verbs when the clause establishes new event stage (c.f., §2.5.2), and when a morphologically transitive verb is underspecified for aspect. Lokono exhibits person marking on a semantically empty auxiliary in reported speech constructions and in some negated clauses. Outgroup data from Tariana is also included for comparison. It is noted that Tariana marks an external argument on a semantically null auxiliary under passivization. The generalization is that non-verbal argument marking in at least certain constructions is a property of the CNA languages that was likely inherited, making the reanalysis of such constructions available.

This section describes person marking on auxiliaries and adpositions in the Northern Caribbean Arawak languages. For each language, I first show conventional uses of adpositions as licensers of noncore arguments, followed by a discussion of areas of the grammar where either adpositions or auxiliaries appear to carry core verbal agreement morphology. The generalization that emerges for these languages is that core argument marking on loci other than lexical verbs generally occurs in subordinate clauses, under valence decreasing constructions, like passivization, or with predicates denoting emotion. Exceptions to this generalization are found only in Wayúu and Garifuna, the only two languages in the Northern Caribbean subgroup that have innovated a class of auxiliary verbs. I argue that this is expected under the analysis presented here. If insubordination is a mechanism driving

auxiliation for Garifuna, and if, for both Wayúu, and Garifuna, analogy to verbal argument marking found for transitive verbs played a role, the modern distribution of their auxiliaries should not depend on clause type or valence-decreasing morphology.

Prior to the discussion of non-verbal argument marking that follows, it is useful to be explicit about the CNA-specific diagnostics for auxiliaries I appeal to here. Heine (1993) offers a discussion of prototypical uses of and diagnostics for auxiliaries. Among semantic categories prototypically expressed by auxiliaries are tense, aspect, mood, and voice. Syntactically, auxiliaries co-occur with verbs and exhibit verbal properties. Because languages differ in how they divide semantic meanings lexically, and in the grammatical categories they exhibit, properties of particular word classes may vary cross-linguistically. Along a syntactic axis, given that CNA adpositions, like CNA nouns, carry prefixal agreement for the dependents they introduce, I take the ability to carry suffixal agreement to be a crucial property distinguishing CNA auxiliaries from adpositions — aside from auxiliaries, only verbs can carry suffixal agreement morphology. Only Garifuna and Wayúu auxiliaries carry both prefixal and suffixal verbal agreement morphology, and in both cases, this morphology co-indexes core verbal arguments. Along a semantic axis, only Garifuna auxiliaries exhibit meanings typically discussed under the umbrella of tense and aspect. Wayúu auxiliaries either contribute desiderative or non-compositional semantics to the constructions in which they appear. Lokono and Añun adpositions never encode tense or aspect, though Añun does exhibit a desiderative construction involving an adposition. While the presence of this construction in Añun may be representative of a stage earlier exhibited by Wayúu in its development of auxiliaries, I do not treat the Anun desiderative construction as involving an auxiliary on syntactic grounds since it never carries a suffix.

Lokono Lokono exhibits several adpositions that inflect prefixally for a pronominal object, or otherwise follow the lexical noun they introduce with no agreement marker. This agreement pattern is parallel to Lokono verbal person marking, as agreement morphology is in complementary distribution with lexical arguments, as described in Chapter 1 of this work. Verbal arguments are not marked on Lokono adpositions, as they are for the other CNA languages — that is, there is no case where Lokono exhibits oblique subject marking.

Example (66) shows the Lokono locative adposition *diako* following its object *hala* 'bench' carrying no inflection, as expected in the case that a lexical object to the adposition is present, as just described. The verb *see* licenses a direct object, only (here, *no* 3.SG). The locative adposition *diako* licenses the noun *hala* 'bench', which is not a core argument of the verb.

(66) Dadykha no hala diako.

da- dykha no hala diako 1.SG- see 3.SG bench LOC 'I saw it on a bench.' (Pet (1987), p. 47) Example (67) shows a construction where two pronominal objects to the benefactive adposition myn are marked prefixally on each instantiation of the morpheme. The prefixal agreement markers da- 1.SG, and tho- 3.SG.F, each serve to co-index a pronominal referent licensed by myn, and the benefactive occurs twice in the clause. As expected, these arguments are encoded via person-number-gender agreement as prefixes to the adposition, and they do not co-refer with any free lexical or pronominal argument in the clause. Like example (66), the benefactive adposition is not carrying agreement morphology for a core argument of the verb, but instead for its own object in each of its instantiations.

(67) Dikika no thomyn damyn.

```
bi- sika no tho- myn da- myn 2sG- give 3.sG 3.sG.F- BEN 1.sG -BEN 'Give it to her for me.' (Pet (1987), p.47)
```

As we will see holds for the CNA languages, certain Lokono adpositions appear to be related to body part terminology, though Pet (1987) shows this is not the case for Lokono adpositions, generally. For Wayúu and Añun, the term for heart has developed into the locus of person marking for experiencer subjects, and has further developed auxiliary uses in Wayúu. Here, the body part term in question clearly played a role in the historical development of experiencer semantics. The fact that adpositions related to body part terms appear in every CNA language suggests this was a general property of proto-CNA. I include a partial list of Lokono adpositions related to body part terms here in Table 3.2.

Possessed body part term	Inflected adposition
ly-sibo 'his face'	<i>ly-sibon</i> 'in front of him'
da-khona 'my body'	da-khonan 'about me'
da-dike 'my tracks'	da-dike 'after me'

Table 3.2: Lokono adpositions related to body part terms

Apart from adpositions that introduce noncore arguments, Lokono exhibits one semantically empty auxiliary verb a which hosts prefixal person marking for core arguments in both main and subordinate clauses. This auxiliary co-occurs with the prefixal privative marker ma-if person marking is expressed, as in main clause example (68), where a carries prefixal agreement marking for the subject of the subordinate verb (= carries marking for a core verbal argument).

(68) Mandyn labo akharoho.

```
m- andy -n l- a -bo akharoho

NEG- arrive -SUB 3.SG.M- AUX -CONT now

'He isn't arriving now.'

(Pet (1987))
```

The auxiliary verb appears in sentences where the verb bears the privative prefix ma- and the subject is not expressed by a free lexical argument. The auxiliary a may only take prefixal person markers (and never suffixal person markers). The auxiliary always bears prefixal person marking when present, and person markers and arguments do not co-occur, as discussed in Chapter 1.

Privative ma- is widespread throughout the Arawak languages as a clausal negator — languages that exhibit ma- in this use in addition to, or instead of a privative marker have been shown to be innovative (Michael, 2014). Given the function of Lokono ma- as nominal derivational morphology, along with the areal tendency for subordinate clause structures to involve nominalization, there is a possible analysis for Arawak languages that exhibit clausal negation with ma- where the nominalization (historical or synchronic) of a subordinate predicate makes it eligible for the privative marker to serve as a clausal negator in these constructions. As discussed later in this chapter, like Lokono, Garifuna has developed the main-clause use of ma- as a general clausal negator. I cite this as evidence for insubordination-driven alignment change in the language. Here, and throughout Arawak, prefixal privative marking in subordinate clauses interacts with prefixal agreement marking on subordinated verbs — generally speaking, Arawak verbs may carry only one prefix, usually for a subject. When negated with the privative ma-, this prefixal slot is unavailable, and subject agreement morphology is carried by the auxiliary.

Though ma- functions as a clausal negator in Lokono, the language retains synchronic privative uses of the morpheme where it derives stative predicates from nouns meaning 'not having NOUN', as we see in (69), where the noun balha 'hair' carries privative ma- prefixally and perfect -ka suffixally, and exhibits the privative meaning 'to lack hair' (Pet, 1987).

```
(69) Ma- balha -ka no
ma- balha -ka no
PRIV- hair -PERF 3SG.F

'She is hairless/bald'
(Pet (1987), p. 74)
```

Lokono also exhibits auxiliary a in quotative constructions, as seen in example (70). This grammatical function of the auxiliary is not core to the analysis developed in this chapter, but its presence in Lokono is interesting because, while the general analysis of auxiliary a is

that the auxiliary is semantically vacuous (Pet, 1987; Patte, 2014), the sole auxiliary verb in Tariana is also a, and means 'say' when it appears as a lexical verb, which fits congruously with the quotative meaning expressed in (70). Further differentiating the function of the auxiliary from its use in clauses negated with private ma-, the auxiliary here appears to serve as a matrix verb that takes a clausal complement, itself exhibiting agreement marking for the quoted speaker, as in example (70). In other subordinate structures the auxiliary appears to carry agreement morphology for a subordinate verb as a clausemate. These facts indicate that, although the auxiliary in both constructions is the same phonologically, its two uses are syntactically different. Still, the similar use of the auxiliary in Lokono and Tariana suggest this lexical item is cognate in the languages that exhibit it, and therefore a lexical item that must have been present in proto-CNA.

```
(70) "Beithoa!" la.

b- eithoa l- a
2.sg- know.self 3.sg.m- Aux

"Be careful!" he said/thought/shouted.'
(Pet (1987, p. 76))
```

While the quotative use of the Lokono auxiliary warrants further investigation, for the current analysis, I set it aside, since it does not serve as the host for agreement marking of arguments licensed by a separate verb in this construction. In the following section, I turn to a discussion of exceptional loci of argument marking in Añun. I find in this section that there is potential evidence in support of an analysis where Añun has developed a single auxiliary. However, marking on this auxiliary is exclusively prefixal, unlike Wayúu and Garifuna auxiliaries. If analyzable as an auxiliary at all, its presence makes Añun alignment in these constructions nominative — all subjects are prefixes in the relevant construction, which we will see is not true for Garifuna and Wayúu auxiliaries.

Añun Like Lokono, Añun exhibits person marking on a variety of adpositions. In most of these cases, the adpositions license noncore arguments, and they encode spatial relations prototypically expected of adpositions cross-linguistically (Dixon, 2010). Añun exhibits an adposition related to the term for 'heart', ein (discussed below), which has developed the distribution of a dative marker in both Añun and Wayúu. While Añun adpositions inflect prefixally for their arguments, they never carry suffixal person-marking morphology, which I take to be a crucial difference between Añun and the CNA languages that exhibit auxiliaries sourced from adpositions — in the case that an adposition carries agreement morphology for a single argument, even for a verbal argument, its status as an adposition is defensible.

In this section, I provide examples of prototypical and non-prototypical constructions involving Añun adpositions to demonstrate their canonical and non-canonical uses. Constructions where Añun adpositions carry person-marking morphology for core arguments of the lexical

verb are argued to be inherited from proto-CNA. In §3.3, I rely on the presence of this construction in Añun to make a broader historical point about proto-CNA, generally.

Example (71) shows a prototypical example of an Añun adposition. The instrumental adposition ka precedes its object $uti\tilde{n}agar$ 'needle', and carries prefixal agreement morphology for it. The verb i 'sew' carries suffixal morphology that co-indexes the subject of the sentence te 1.SG. Here, the adposition licenses its object. It does not carry agreement morphology for any core argument of the verb.

(71) Einoi te tayawin nka utiñagar.

```
a- i -naa -i te ta- yawin hi- ka uniña -kari AT.1 sew -MULT -SG.F. 1.SG 1.SG- dress 3.SG.F INSTR needle -DET.F 'I sew my dress with the needle' (Patte (1989, p. 62))
```

Similarly, examples (72) and (73) exhibit prefixal person marking on the adpositions ou (superessive) and ru (locative), both of which encode spatial relations between the predicate and a noncore argument. Example (72) shows the adposition ou introduce the noun mo 'earth', the location on which the digging action occurs. Like adpositions in the other CNA languages, ou carries prefixal person, number, and gender marking that agrees with its object, the noncore argument it introduces.

(72) Naponei hou mogor.

```
na- po -naa -i hi- ou mo -kari 3.PL- dig -MUL -SUB 3.SG.F- SUPR earth -DET.F 'They dig the earth continuously planting.' (Patte (1989, p. 87))
```

Similarly, example (73) shows the locative adposition ru introduces the noncore argument wiin 'water', and agrees in person, number, and gender with this noun.

(73) Hapitti hiru wiinkari.

```
hapitta -i hi- ru wiin -kari
fall -SG.F 3.SG.F- LOC water -DET.F
'She fell in the water.'
(Patte (1989, p. 88))
```

Añun adpositions also exhibit meanings not strictly limited to spatial relations. In example (74), the adposition ta licenses the causer of the predicate wiinari 'rum' and takes prefixal

person and number marking cross-referencing that causer, the person, number, and gender of that noun, 3.SG.F. While the translation in (74) suggests that the example is a passive construction, the example does not exhibit any passive morphology. The predicate hoto 'rot' appears to be an intransitive, stative predicate. To add in a participant that causes the action of the verb, ta is used. While semantically dissimilar to spatial adpositions, distributionally, and grammatically, ta behaves like other Anun adpositions. It follows a verb and licenses a noncore argument. Such examples show that, in certain cases, the semantics of CNA adpositions align the arguments they introduce with prototypical subject roles: minimally, causers and experiencers (Dowty, 1991), which I argue in §3.3 played a role in the availability of reanalysis for such constructions.

(74) Hotoroi wapana nta wiinar.

```
hoto-roo -i wa- pana hi- ta wiinari rot -AUM -SG.F 1.PL- liver 3.SG.F- CAUS rum 'Our livers are rotted by rum.' (Patte (1989, p. 83))
```

Aside from their function as noncore argument licensers, Añun adpositions can host morphology that indexes core verbal arguments. Añun exhibits oblique subject marking with some stative predicates. We see in (75) that the predicate payawa 'be happy' does not carry a person marker cross-referencing its subject. We find instead that the dative adposition ein carries the prefixal person marker ta, which cross-references the S_o argument of the predicate. The Añun dative adposition ein is polysemous, meaning 'heart' in non-adpositional contexts, the dative marker presumably having developed from a possessive construction meaning 'My heart is happy.' In its adpositional use, the dative adposition carries agreement marking for an experiencer subject, as in example (75).

(75) Payawii tein.

```
payawii ta- ein
be.happy 1.SG- DAT
'I am happy.'
(Patte (1989, p. 76))
```

The dative marker is also used in the desiderative construction, shown in examples (76) and (77). Here, ein cross-references the subject of the clause with a prefixal person marker. I suggest that the dative marker developed its use in desiderative constructions as a result of its association with experiencer subjects. Because verbal subject agreement, adpositional agreement, and agreement in possessive constructions is formally identical, just this type of reanalysis is made possible, providing a clear example of how non-verbal argument marking has developed in the CNA languages.

Again, this construction is notable precisely because agreement for the grammatical subject of the verb is carried by an element other than the verb, itself, not necessarily because of its semantics, interesting though they may be. If prefixal marking for core arguments is generally a property of verbs, core prefixal person marking on adpositions makes these eligible for reanalysis.

```
Akee tein.
(76)
             k
                -ee
                        ta-
                               ein
      AT.1- eat -ASP.1 1.SG- DAT
      'I want to eat.'
      (Patte (1989, p. 95))
(77)
      Akeep tein.
            k
               -ee
                                      ein
                        -pe
                               ta-
      AT.1- eat -ASP.1 -NEG 1.SG- DAT
      'I don't want to eat.'
      (Patte (1989, p. 95))
```

This particular adposition is also notable because it has an obvious cognate in Wayúu, ain, though, in Wayúu, this adposition has developed a clear auxiliary use, hosting suffixal object agreement morphology, as well as prefixal subject morphology. The Añun dative marker discussed here may be analyzable as an auxiliary in its desiderative use. However, morphosyntactically, these two analyses are indistinguishable for Añun, given that ein does not carry suffixal person markers, like adpositions, generally, in the language. Given also that Añun exhibits no other auxiliaries, generalizations about how auxiliaries pattern morphosyntactically in the language are difficult to formulate.

The examples cited in this section show only a handful of the many adpositions Añun exhibits. However, unlike Wayúu and Garifuna, none of these adpositions exhibits the verbal properties characteristic of the auxiliaries to which they seem to be historically related in Wayúu and Garifuna. In most cases, the function of these adpositions is to license a noncore argument. Dative-marked experiencer subjects, as well as the desiderative construction, provide evidence that core argument marking was likely available on a non-verbal host in proto-CNA — Añun does not appear to have undergone full reanalysis of this word class like Garifuna and Wayúu, as I will show in the following two sections.

Wayúu Like the canonical adpostions widespread throughout CNA, Wayúu adpositions license noncore arguments and carry prefixal person-marking morphology that coindexes the arguments adpositions introduce. Additionally, Wayúu exhibits constructions that appear to be instances of partial adpositional incorporation into the lexical verb. These partial

incorporation constructions distrupt canonical argument marking for both lexical verb and adposition, a situation I argue has given rise to ambiguity in the lexical category of adpositions. Agreement morphology for core verbal arguments is carried on adpositions, allowing for an interpretation of adpositions as verbal. Example (78) illustrates such a construction. The lexical verb *moto* 'forget' carries no person-marking morphology. The verb is followed by the dative adposition *ain*, which carries no prefixal person-marking morphology, and instead carries suffixal person-marking morphology cross-referencing the syntactic subject of the lexical verb *nukúoma híntiikai* 'the boy's hat'.

(78) Moto' áinchi nukúoma híntiikai.

```
moto' áin -chi n- ukúoma híntɨi -kai forget DAT -M.SG.PST 3.SG.M- hat boy DEF
```

'The boy forgot his hat.' \sim 'Forgotten (to him) is the boy's hat.' (Zubiri and Jusayu (1978, p. 280))

Zubiri and Jusayu (1978) describe three adpositions that exhibit this behavior, though it is not clear this list is exhaustive from the exposition in this grammar. Each of these three items maintains canonical adpositional uses where each introduces a noncore argument and carries prefixal agreement morphology that cross-references that argument. Adpositional meanings for each of these elements are summarized in Table 3.2.

Adposition	Meaning
au	COMITATIVE
ain	SUPERESSIVE
o' u	LOCATIVE

Table 3.3: Wayúu adpositions with auxiliary uses

Wayúu exhibits several more elements which clearly function as adpositions, only, introducing and carrying agreement for noncore arguments. Like for the other CNA languages, many of these appear to be sourced from body-part terms, historically. For example, the adposition o'u, shown in Table 3.2, also independently means 'eye' in Wayúu. An example of a canonical adposition licensing a noncore argument and carrying prefixal marking is found in (79), where the benefactive adposition $\ddot{u}m\ddot{u}$ introduces the argument Marakariita, and carries prefixal third person feminine agreement for this argument.

¹This verb may grammatically carry suffixal agreement morphology, independently, as shown in example (82).

(79) Ee'irajshi taya wanee jayeechi sümüin Marakariita.

```
ee'iraj -shi taya wanee jayeechi s- ümü -in Marakariita sing -sG.M 1.sG one song 3.sG.F BEN -PROC Margarita 'I sing a song for Margarita.' (Álvarez (2014, p. 48))
```

Each of the three lexical items listed in Table 3.2 exhibits the same range of agreement possibilities. Core arguments are cross-referenced on these items for Wayúu verbs in the present and the perfective only. In their adpositional uses, each may take prefixal person marking that encodes the argument introduced by the adposition, as in (80). This example shows the person-marking suffix -shi, attaching to the verb anta 'surprise', and cross-referencing the subject of the clause taya '1.SG', as well as prefixal third person masculine agreement n- on the adposition $\acute{a}u$, cross-referencing the object of the adposition.

(80) Antishi taya náu wané wayúu aluwahishi.²³

```
anti -shi taya n- áu wané wayúu aluwahishi surprise -SG.M 1.SG 3.SG.M- MAL one man robber 'I surprised a robber.' ~ 'I surprised one man who robs.' (Zubiri and Jusayu (1978, p. 279))
```

Since both nouns in example (80) are masculine and singular, the agreement morphology carried by the main verb in this example is technically ambiguous in terms of the noun it agrees with. Example (81) shows the same adposition (written aa'u by Álvarez) in the same syntactic function. Here, however, because the object of the adposition is plural, the adposition takes third person plural prefixal agreement, ruling out a possible analysis where the suffixal person marker carried by the verb is agreement morphology for the object of the adposition.

²This clause appears to exhibit two instances of the subject suffixing construction discussed in Chapter 2, antishi, and aluwahishi. A possible literal translation here is 'I am the surpriser of the man who robs.' If this is accurate, 1) it is possible that the suffix $-\int i$ is synchronically still active in subject relativization of the type I reconstruct for proto-CNA in Chapter 2, providing further evidence for the analysis I pursue in that chapter, and 2) the reanalysis of the subject relative-nominalizer as suffixal person morphology played a role in the development of auxiliaries in CNA. Because the subject relative-nominalization is valence decreasing, a direct object of the relativized verb would have to be reintroduced by an adposition.

³The adposition *au* is described as meaning *above*, or *over* in extent descriptions for the language (Zubiri and Jusayu, 1978; Álvarez, 2014). Given the difficulty of reconciling the translation in example (80) with such semantics, I gloss *au* as a malefactive here on parallel with the Wayúu benefactive. If the point made the above footnote is correct, a genitive interpretation of this adposition may be most correct. Both these analyses may ultimately be wrong, but this glossing convention should not affect my analysis since what I am interested in is the fact that the object of a transitive verb is marked on a lexical item other than the verb itself.

(81) Onjulaapu'ushii naya iipiinaa jaa'u wunu'ulia.

```
onjulaapu'u -shii naya iipünaa j- aa'u wunu'ulia hide -SG.M 3.SG.M high 3.PL- SUPR tree

'He hides himself high in the trees.'
(Álvarez (2014, p. 96))
```

The fact that au can carry prefixal verbal person marking that is coreferential with its object demonstrates that the word retains its adpositional function. Under the assumption that adpositions carry prefixal agreement for arguments they introduce, and under the assumption that the verb in (80) is at least morphologically intransitive, au is the licenser of the of the argument $wan\acute{e}$ $way\ddot{u}u$ alywahishi 'a robber'. The adposition therefore carries agreement marking for that argument. The same point can be made for example (81), where au appears to license the argument wunu'ulia 'trees'.

Like Añun, Wayúu exhibits dative experiencer subject marking involving the morpheme ain. As for Añun, in this use, it is ambiguous whether to analyze ain as an auxiliary or as an adposition. If analyzed as an auxiliary, this argument-marking strategy is not oblique, given the assumptions I lay out about the difference in argument structure for auxiliaries and adpositions in the introduction to this section. If a core syntactic function of auxiliaries is to host agreement morphology for verbal arguments, prefixal marking on ain that encodes a syntactic subject fulfills this function. Conversely, if the central role of adpositions is the licensing of arguments, and the subject is licensed by the verb, itself, ain is a non-canonical adposition in its role as the locus of argument marking in these constructions.

An example of a Wayúu construction with a dative-marked experiencer subject mirroring those found in Añun is shown in (82). Here, we find the lexical verb motu 'forget' carries suffixal agreement morphology. Because suffixal subject agreement is underspecified for person, this marking is compatible with either the first or second person argument in the clause. We find first-person prefixal marking, on the morpheme \acute{ain} , making the argument the verbal suffix agrees with likely to be the second person pronoun in the sentence.

```
(82) Motu'shi táin pia.
motu'-shi t- áin pia forget -SG.M 1.SG- DAT 2.SG
'I forgot you.'
(Zubiri and Jusayu (1978, p. 280))
```

We can see that disambiguation of this agreement morphology is possible in examples like (83). Here, the addressee was masculine but the suffixal morphology on the verb is SG.F, agreeing with wüin 'water'. This example demonstrates that the notional subject of the desiderative construction is truly not marked on the lexical verb, making reanalysis of this

construction available — because subject agreement is prototypically carried on verbs, an available interpretation of other lexical items carrying subject agreement morphology is that these are also verbal.

```
(83) Aseesü paa'in wüin?

asee -sü p- aa'in wüin
drink -SG.F 2.SG DAT water

'Would you like to drink water?'
(Álvarez (2014, p. 75))
```

In summary, when it carries prefixal agreement morphology, the lexical category of desiderative ain is ambiguous between adposition and an auxiliary in Wayúu. It is cognate to Añun ein, and historically related to the word for heart, as discussed above for Añun. It is possible that this morpheme is cognate to the Garifuna, Lokono, and Tariana auxiliary a, though this is unlikely (and moreover, difficult to prove), given the degree of phonological reduction that the morpheme would have had to undergo in these languages for this to be the case. However, the auxiliary ain, itself, is reduced from its full nominal form aa'in 'heart' (cf. Garifuna anigi 'heart', Lokono ansin 'like, love, want'), and phonological reduction does prototypically accompany grammaticalization (Bybee et al., 1994), so the possibility of this etymology remains.

In its use as the dative marker for experiencer verbs, as well as in the desiderative construction, the distribution of Wayúu ain differs from that of Añun ein in allowing for suffixal agreement morphology, as seen in example (84). This is the function I claim motivates a clear verbal analysis for these lexical items in Wayúu to the exclusion of their Añun cognates. Example (84) contains no person marking at all on the lexical verb moto, and instead exhibits suffixal marking co-referential with the stimulus subject of the verb, ukóma 'hat' on the auxiliary, only. Note that the experiencer subject hintii 'boy' is absent except in the complex phrase where it serves as a possessor. It is not marked with agreement morphology on the verb or on the auxiliary ain.

(84) Moto' áinchi nukúoma híntikai.

```
moto' áin -chi n- ukúoma híntii -kai forget DAT -M.SG.PST 3.SG.M- hat boy DEF

'The boy forgot his hat.' ~ 'Forgotten (to him) is the boy's hat.' (Zubiri and Jusayu (1978, p. 280))
```

Wayúu also exhibits this syntactic pattern with the other lexical items with both auxiliary and adpositional uses, as can be seen in example (85), in which wayúu 'man' (the object of motu 'surprise') is cross-referenced with the suffixal person marker -chi carried by the morpheme

au. Here, the first person subject of the verb anta 'surprise' is explicitly marked with the first person singular morpheme ta on the verb. Note that example (84) minimally contrasts with example (80), introduced at the beginning of this section in its argument-marking strategy. Whatever the internal structure of the complex involving the lexical verb and the morpheme au in example (85), this use of au suffixal agreement marking for a core argument is non-canonical for adpositions, but perfectly acceptable for verbs, suggesting an auxiliary analysis for the set of morphemes that exhibits these properties.

(85) Tánta áuchi wayúkai hinain aluwa'há kaula.⁴

```
t- ánta áu -chi wayú -kai hɨnain aluwa'há kaula.
1.SG- surprise MAL -M.SG man -DEF ?? rob goats
```

'I surprised the man (who was) robbing goats.' (Zubiri and Jusayu (1978, p. 280))

We see in this section that Wayúu exhibits both prefixal and suffixal argument marking for core arguments of lexical verbs on items that are related to adpositions. In the following section, I lay out the non-verbal core argument marking facts for Garifuna.

Garifuna Here, I introduce Garifuna constructions that exhibit person marking for core verbal arguments on items other than the verbs that introduce them. I also discuss aspects of Garifuna grammar that appear to be unique among the CNA languages, namely, the items that appear to exhibit auxiliary functions semantically encode tense, aspect, and mood (TAM), semantic features prototypically encoded by auxiliaries cross-linguistically (Heine, 1993), but features encoded affixally in the other CNA languages. In §3.3, I will argue that these auxiliaries motivate an analysis where Garifuna's auxiliary system developed differently from Wayúu's. Namely, the dual pressures of insubordination and analogically-driven reanalysis of adpositions as verbal both contributed to the development of an auxiliary system for Garifuna, but only the latter appears to be relevant for Wayúu. Here, I introduce this set of morphemes descriptively as they relate to argument marking. In §3.3, I argue that analogical pressure from Garifuna's adpositionally-sourced auxiliary led to the auxiliary use of formerly bound morphemes.

Like the other CNA languages, Garifuna exhibits a large class of adpositions that license noncore arguments, and these inflect prefixally for the person, number, and gender features of their direct objects, as shown in example (86), where the comitative adposition *uma* carries prefixal marking for its object, *Pablo*. Table 3.4 shows a number of these adpositions with masculine third person singular prefixes.

⁴For this work, I did not carry out original elicitation with Wayúu speakers. The source from which this example is drawn does not provide interlinear glosses for every example. The question marks here indicate that I was unable to determine a good gloss for the item in question.

(86) Abinahatu luma Pablo.

abinaha -tu l- uma Pablo dance -3.sg.f 3.sg.m- com Pablo

'She danced with Pablo.'

Table 3.4: Garifuna adpositions

Adposition	Gloss	
lun	'to/for/ him/it'	
lau	'of/with him/it' (instrumental)	
luma	'with him/it' (comitative)	
lida	'in/on him/it')	
luwagu	'on him/it'	
lubadu	'next to him/it'	
luwe	'from him/it'	
luba	'toward him/it'	
luwege	'above him/it'	
labu	'under him/it'	
tigibu	'in front of him/it'	
lanaga	'behind him/it'	
lauru	'beside'	

Additionally, we find that the facts about oblique subject marking in the other CNA languages also hold for Garifuna, shown in example (87). The locus of oblique experiencer marking for this example is the adposition un, which can more generally express either locative or benefactive semantics.⁵

(87) Hírugati nun.

hirugati n- un be.sad 1.SG- LOC

'I am sad.' (Munro (2007, p. 122))

Munro (2007) also observes that Garifuna oblique subject marking occurs with the adpositions au INSTR, and $uw\acute{a}gu$ BEN.

 $^{^5}$ While un is not the expected form for a Garifuna cognate to Añun ein and Wayúu ain (Añun ei, and Wayúu ai generally correspond to Garifuna a.), the fact that marking of a subject on a head other than the lexical verb occurs in at least Wayúu, Añun, and Garifuna, strongly suggest that such subject marking was a property of CNA, inherited by these languages, and was therefore an available analogical template for the extension of non-verbal marking of core arguments elsewhere in the grammars of these languages.

(88) Chúti táu. chuti t- áu be.smart 3.SG.F- INSTR 'She is smart.' (Munro (2007, p. 122))

Like for Añun and Wayúu, it is possible to make the case that the oblique subject marking, as found in (87) construction is a case where the lexical category of the morpheme in question is ambiguous between adpostion and auxiliary. In these constructions, the adposition carries agreement morphology for a core verbal argument, which is expected behavior for an auxiliary and non-canonical for an adposition. In this particular construction, Garifuna does not exhibit suffixal marking of the type found in Wayúu, leaving oblique subjects outside the scope of the diachronic changes I trace in this chapter.

Aside from items that exhibit clear adpositional functions involved in oblique subject marking, Garifuna exhibits core argument marking on a set of aspectual auxiliaries. The argument-marking patterns associated with Garifuna aspectual auxiliaries are of three types, summarized in Table 3.5, adapted from Kaufman (2010).

	Positive	Negative
Aorist umu	VERB A- umu -O	VERB A- umu -O
Perfect ha/a	VERB A- ha/a -O, -S	VERB A- ha/a -O, S
Continuative gi	VERB A- gi -O, -S	VERB A- gi -O, S
Future ba	A-, S- VERB ba -O	VERB A- ba -O, -S

Table 3.5: Summary of auxiliary person marking, adapted from Kaufman (2010)

For Garfuna, main clauses with TAM categories aorist, perfect, continuative, and future, verbal arguments are not consistently marked on the lexical verb, but instead appear on auxiliaries that express those TAM categories under particular conditions involving transitivity and polarity. The following generalizations hold about the distribution of person-marking in such clauses: Under aorist tense, the lexical verb will carry a suffixal person marker if it is morphologically intransitive, and no auxiliary or TAM morphology will appear. If the verb is morphologically transitive, prefixal and suffixal person marking is carried on the Aorist auxiliary umu, as shown in example (89).

(89) Ariha numuti mesu le. ariha n- umu -ti mesu le see 1.SG- AOR -3.SG.M cat DEM.M 'I see the cat.' (Kaufman (2010, p. 8))

Kaufman (2010) analyzes umu as 'aorist'. I preserve this glossing convention in examples citing his work, and I take this label to indicate that the auxiliary does not specify tense or aspect features, as I have found no evidence for any semantic content for the auxiliary umu, though it is cognate to Lokono, Añun, and Wayúu's benefactive adposition. The main function of Garifuna umu is to host person markers when a suffixing verb stem of the type analyzed in Chapter 2 takes a definite object and where TAM semantics are underspecified. Example (89) shows this auxiliary carrying subject and object agreement.

Under perfect and continuative aspects, the auxiliaries exhibiting these meanings carry suffixal marking cross-referencing a syntactic subject in the case that the lexical verb with which these co-occur is intransitive. In this case, these morphemes are pronounced as a phonological word with the lexical verb. In the case that the lexical verb is morphologically transitive, both prefixal marking for the subject of the lexical verb and suffixal marking for its object are carried by these auxiliaries. The transitive pattern for perfect aspect marking is shown in example (90).

(90) Aliha laru garada.

```
aliha l- a -ru garada read 3.SG.M- PERF -3.SG.F book
'He had already read the book.'
(Kaufman (2010))
```

Finally, for future marked clauses, prefixal morphology for any syntactic subject is carried by the lexical verb, except under negation, in which case, the future morpheme will carry suffixal person marking for an intransitive lexical verb's subject, and prefixal and suffixal person marking for a transitive lexical verb's core arguments. In the case that the future marker carries prefixal person marking, it is pronounced as a free phonological word, as shown in example (91).

(91) Madáru nubou gáfu.

```
m- adáru nu- ba -u gáfu
NEG- open 1.SG- FUT -3.SG.F box
'I will not open the box.'
(Munro (2007, p. 21))
```

These aspectual auxiliaries are unique to Garifuna among the CNA languages. In the following section, I argue that these were originally suffixal verbal morphology, and entered into the auxiliary system on analogy with auxiliaries a and umu once these entered into the TAM system as perfect and agrist tense, respectively.

Finally, like for Lokono main clauses, under negation, transitive complement clauses exhibit a semantically vacuous auxiliary a that hosts prefixal person markers cross-referencing the subjects of the lexical verbs with which they co-occur.

(92) Bulietina kelo mabogua ba gayu.

```
bulie -tina kelo m- abogua b- a gayu forget -1.SG COMP NEG- cook 2.SG AUX chicken 'I forgot that you did not cook the chicken.' (Chen, 2012)
```

As holds for the other CNA languages as well, the similarity of prefixal agreement marking on verbs and adpositions is precisely what provides the type of ambiguity that allows for the reanalysis of lexical category, as demonstrated by the difficulty of analytically sorting such cases as adposition or auxiliary descriptively. In the following section, I will discuss oblique argument marking of core arguments for Tariana before turning to a discussion of the diachronic analysis of auxiliation in CNA.

Tariana Here, I introduce two Tariana constructions where argument marking for core verbal arguments is not encoded on the verb, itself. Tariana exhibits oblique subject marking with certain stative predicates, as observed for Wayúu, Añun, and Garifuna, and Tariana exhibits marking of a demoted agent on an auxiliary in passive constructions. Tariana exhibits person-marking prefixes, but no suffixes. These cross-reference a syntactic subject when carried by a verb. Like for the CNA languages, adpositions and possessed nouns may also carry these prefixes, in which case these prefixes cross-reference the object of the adposition, and the nominal possessor, respectively.⁶

Example (93) shows a Tariana experiencer predicate amiri 'be drunk' where subject marking is not carried on the verb. Instead, the person marker associated with the subject is carried prefixally on the morpheme na.

(93) Amirikamha duna.

```
amiri -ka -mha du- na
be.drunk -DECL -PRES.NON.VIS 3.SG.M- OBJ
'She is drunk.'
(Aikhenvald (2001))
```

⁶Tariana is a serial verb language, so many of the canonical functions of auxiliary verbs (e.g., argument marking cross-referencing core verbal arguments) are carried out via serialization in the language. Because no other language in this study exhibits verb serialization, person marking and serial verbs fall outside the scope of the current study. Aikhenvald (1999) points out that verb serialization in Arawak is limited to the sub-branch of the Northern Arawak languages spoken in the Vaupés region of Brazil and Colombia, and claims serialization is an areal, rather than genetic feature of Tariana.

Tariana also exhibits a passive construction in which the subject of the passivized verb may be carried by the auxiliary a. The auxiliary a can be used as an independent predicate meaning 'go', 'say', 'give', or 'cause'. Crucially, in this function, it becomes the locus of person marking for the predicate. The Tariana passive is marked with the prefix ka- and the suffix -kana. The auxiliary a is optional. If it does not appear, there is no verbal person marker in the passive clause. This pattern is demonstrated in (94) and (95). Example (94) contains the active form of the verb $\tilde{n}ha$ 'eat'. It takes the prefixal person marker di-, which is coreferential with the subject of the clause. Example (95) shows the passive form of the same verb. The promoted subject of the verb is encoded by the verbal person marker di-, which now appears on the auxiliary a. The verb $\tilde{n}ha$ hosts no person markers.

(94) Hanenuku yawi diñhamhade.

```
ha- ne -nuku yawi di- ñha -mhade DEM:INAN- DIST -TOP.NON.A/S jaguar 3.SG.NF- eat -FUT 'A jaguar will eat that one up.' (Aikhenvald (2003))
```

(95) Hane kañhakanamhade dia.

```
ha- ne ka- ñha-kana-mhade di- a
DEM:INAN- DIST REL- eat -PASS -FUT 3.SG.NF AUX

'This one will be in the process of being eaten up by the jaguar.'
(Aikhenvald (2003))
```

While an auxiliary of the phonological shape a is fairly light, it is striking that it appears with the same shape and function in Lokono and Tariana. Given that this auxiliary is present outside of CNA, the likelihood is that it was inherited from a common ancestor by both Lokono and Tariana, making constructions involving this auxiliary, in addition to constructions where adpositions carry oblique subject markers, an available template for the reanalysis of adpositions as verbal — if true auxiliaries follow verbs and carry person marking for them, and adpositions also exhibit this function, the syntactic similarity of the two lexical categories makes their analysis as members of a single word class available for users of these languages. In the following section, I will propose that both oblique subject marking and the presence of auxiliary a played a role in the analogical reanalysis of adpositions as auxiliaries for Wayúu and Garifuna.

3.2.1 Summary

To summarize, Garifuna and Wayúu exhibit lexical items with auxiliary uses (hosts for core verbal argument marking) that appear to reconstruct as adpositions for proto-CNA. These

lexical items are summarized with cognate forms from Añun and Lokono in Table 3.2.1. Items with auxiliary uses are shaded grey, while those that only serve as adpositions are not.

Garifuna	Lokono	Añun	Wayúu	Tariana	GL oss
a	a			a	DUMMY
au		ou	au		SUPERESSIVE
_	_	ein	ain	_	DATIVE
		ou	ouu	_	LOCATIVE
umu	myn	mo	ümü	_	BENEFACTIVE

Table 3.6: CNA adpositions with auxiliary uses and their cognate forms

We saw in this section that Garifuna and Wayúu adpositions exhibit verbal properties that cognate adpositions in Lokono and Wayúu do not — beyond just oblique subject marking, Wayúu and Garifuna both exhibit constructions where both verbal arguments are encoded on auxiliaries, a subject prefixally, and an object suffixally. This use is clearly not analyzable as adpositional — adpositions do not serve to introduce two arguments, cross-linguistically. In the following section, I propose a diachronic analysis of the emergence of these properties.

3.3 Historical development of Garifuna and Wayúu auxiliaries

The preceding section examined core argument-marking patterns that involve loci of person marking other than main verbs, namely, CNA adpositions and auxiliaries. The goal of this section is to provide an analysis of how auxiliaries developed from adpositions in the histories of these languages. In the Garifuna auxiliary system we find elements that express some aspectual meaning alongside elements which are semantically empty, serving only as agreement hosts. In the Wayúu system, we find synchronic categorical ambiguity between adpositions and auxiliaries.

In this section, I argue that the diachronic source for Garifuna continuative and future auxiliaries are suffixal TAM markers, and that Garifuna's aorist auxiliary umu developed from the benefactive adposition umu. I suggest that subordinate clauses exhibited the auxiliary a as the locus of person marking in pre-Garifuna, as we find synchronically for both Lokono and Garifuna, and that subordinate clauses exhibiting this person-marking strategy underwent insubordination, allowing for the main-clause use of this auxiliary, which, in turn, provided a template for reanalysis of adpositions as verbal. I also show how negation constructions provide supporting evidence for this insubordination analysis. Following this change, I argue main clause a was reinterpreted as the locus of perfect marking in morphologically transitive perfect constructions, and benefactive umu analogized to this pattern, as a post-verbal lexical item carrying prefixal agreement morphology. The other aspectual suffixes then analogized to the perfect argument-marking pattern.

Unlike for Garifuna, Wayúu's development of auxiliaries does not require an appeal to insubordination, though there is evidence for insubordination in both languages. For Wayúu auxiliation, I argue that the morphosyntactic properties of desiderative ain allowed for a verbal interpretation of the morpheme. Ambiguity in lexical category between the auxiliary and adpositional uses of this morpheme allowed for the reanalysis of the other adpositions that appeared historically in post-verbal position. For ain, itself, the development of its use in desiderative constructions is very likely related to the fact that body part terms are the source of adpositions in the CNA languages, and ain means 'heart' in Wayúu, as discussed in §3.2.

Further distinguishing the two languages is the fact that the Wayúu auxiliaries exhibit no aspectual meanings. These auxiliaries are all synchronically related to adpositions, and there is no apparent semantically vacuous auxiliary whose argument-marking pattern extended to adpositions. Instead, it appears that constructions utilizing adpositions as the locus for argument marking underwent reanalysis, and the verbal paradigm of prefixal and suffixal argument marking was extended to adpositions.

Recalling the formal mechanisms of syntactic change, grammaticalization, and analogy, the emergence of auxiliaries from a grammatical source like an adposition or aspectual suffix might suggest a degrammaticalization trajectory. In the case of Garifuna TAM morphology, bound morphemes appear to have developed word-like properties. However, the change from adposition to auxiliary, in particular, is sufficiently rare that a grammaticalization analysis is called into question. Grammaticalization clines known to involve auxiliaries normally involve a shift from lexical verb to auxiliary and from auxiliary to aspect (Heine and Kuteva, 2004). Degrammaticalization, then, should involve a category shift from aspect to auxiliary and from auxiliary to lexical verb. In the cases of Garifuna -gi and -ba we find the beginning stage of such a shift. However, for those auxiliaries that developed from adpositional sources, we do not. Similarly, lexical nouns are commonly accepted as the source of adpositions in the grammaticalization literature (Heine and Kuteva, 2004). A degrammaticalization account involving adpositions should involve a category shift from case marker to adposition and from adposition to lexical noun.⁷

3.3.1 Insubordination

In this section, I will discuss the role of insubordination — the conventional main-clause use of structures exhibiting subordinate morphology — in the emergence of Garifuna main clause auxiliaries. I argue in this section that there is strong evidence that insubordination occurred in the history of the CNA languages, and that this insubordination played a crucial

⁷English verbs derived from adpositional sources, such as *down* (as in *he downed his beer*) or *up* (as in *he upped his ante*) have been suggested to be possible evidence for the existence of a degrammaticalization cline from adposition to lexical verb, a potential avenue of analysis for the present study. However, Hopper and Traugott (2003) contend that such verbs are morphologically derived in English, and are not indicative of a true degrammaticalization pathway.

role in the development of Garifuna auxiliaries from adpositions — namely, the main-clause use of an auxiliary historically limited to subordinate clauses where verbs were nominalized introduced an analogical template for the reanalysis of Garifuna adpositions as auxiliaries.

Garifuna Patterns of argument marking on Garifuna main-clause auxiliaries appear to have developed as a result of insubordination-driven reanalysis and analogical extension. Synchronic data support this analysis. Evans (2007) defines insubordination as, "the conventionalized main-clause use of what, on *prima facie* grounds, appear to be formally subordinate clauses."

Strong morphological evidence for a Garifuna insubordination analysis comes from the main clause negator ma-. Example (96) exemplifies the modern distribution of this morpheme: ma- is prefixed to a main verb, and arguments are marked on the auxiliary umu. Recall from the discussion of Lokono's semantically empty auxiliary a that ma- exists in Lokono as a privative marker, prefixing to nouns to derive a stative verb, and functioning as clausal negator in subordinate clauses and main clauses that appear to be diachronically related to subordinate structures. The morpheme ma- in fact reconstructs to proto-Arawak as a privative marker, and the use of the morpheme as a main clause negator has been argued to be the result of insubordination (Michael, 2014). Subordinate structures in CNA generally involve nominalization, making subordinated verbs historically eligible hosts for privative ma-. The CNA use of the morpheme to encode main clause negation is the result of insubordination-driven reanalysis of the morpheme's function.

```
(96) Máfaru n- umu -ti.

ma- afaru n- umu -ti

NEG- hit 1.SG- AOR -3.SG.M

'I didn't hit him.'

(Munro (2014, p. 17))
```

We have seen in the previous section that the auxiliary a serves as the locus of person marking in Lokono negated subordinate (nominalized) clauses. We find that this same pattern obtains in Garifuna. Example (97) contains a subordinate clause negated by ma-, with the external argument marked prefixally on the auxiliary a.

```
(97) Emenigiratu lun mabinaha ta.

emenigira -tu lun ma- abinaha t- a
hope -3.SG.F COMP NEG- dance 3.SG.F AUX

'She hopes not to dance.'

(Chen (2012, p. 7))
```

Given the necessary co-occurrence of privative ma- and auxiliary a in subordinate clauses in Lokono and Garifuna, I propose that main clause auxiliary a emerged in Garifuna as a result

of the same insubordination that led to the use of privative ma- as a general clausal negator. Example (98) shows that exactly this structure surfaces in a context where insubordination is cross-linguistically expected — namely, in imperative clauses.

```
(98) Móumuga ban!

m- oumuga b- a

NEG- sleep 2.SG- AUX

'Don't sleep!'

(Munro (2014))
```

Garifuna insubordination trajectory:

- 1. Private ma- attaches to nouns and derives stative predicates. Subordinate clauses count as nouns for ma- negation. Core arguments are marked on subordinate auxiliary a in negated subordinate structures.
- 2. Subordinate clauses negated with ma- undergo insubordination.
- 3. Main clause negation with ma- and main clause core person marking on a.

An insubordination analysis for Garifuna explains main clause negation with prefixal maand main-clause auxiliary a, which can host prefixal person markers. This analysis does
not independently explain the emergence of Garifuna aspectual auxiliaries, which will be
addressed after examining the case for Wayúu insubordination.

Wayúu As is the case for Garifuna, Wayúu exhibits the main clause negator ma-, as we see in (99). Although this is not the primary form of negation in Wayúu, the fact that ma- negation occurs at all in main clauses suggests insubordination also occurred in Wayúu. Privative ma- is only associated with nominal stems in many other Arawak languages, and a privative meaning for ma- is the generally accepted reconstruction for Arawak (Michael, 2014). The fact that it occurs on a verbal stem in a main clause construction suggests that the verb was historically nominal, supporting an insubordination analysis for Wayúu, in precisely the same way these facts support an insubordination analysis for Garifuna. Wayúu negated main-clause verbs also carry suffixal morphology that is formally nominalizing, providing more evidence that insubordination has occurred in main clauses exhibiting negation in the language.

```
(99) Ma'yataainsai Kamiirü tepialu'u.

ma- yataa -in -sa -i Kamiirú t- epia -lu'u

NEG- work -SUB -?? -SG.M Camilo 1.SG- house -LOC

'Camilo doesn't work in my house.'

(Álvarez (2014, p. 159))
```

While it is clear that insubordination has occurred in the history of Wayúu's grammar, it is not necessary to appeal to insubordination as a formal mechanism in the development of auxiliaries from adpositions for Wayúu. I argue in the section that follows that the analogical reanalysis of ain as verbal led to the extension of verbal properties to other Wayúu adpositions. However, the fact that Wayúu exhibits evidence for insubordination is relevant to the larger argument that typological properties of the CNA languages make them eligible for syntactic change driven by insubordination. The fact that Wayúu auxiliation does not appear to be related to insubordination provides evidence that Garifuna and Wayúu auxiliation was not joint.

Given that the use of ma- as a clausal negator occurs in Lokono, Garifuna, and Wayúu, but not Añun, a question of parsimony arises for the analysis presented here. Namely, it is simply more likely that proto-CNA exhibited ma- as a clausal negator in at least some contexts, and that ma- was independently lost in Añun, than it is to say that Lokono, Garifuna, and Wayúu each underwent insubordination separately. This question is left open. However, it is worth noting that the contexts in which ma- serves as a main clause negator vary across the three languages — for Garifuna, ma- serves as the main strategy for negation across clause types, while for Lokono, it is available in main clauses, but not the only option for negation. For Wayúu, main clause negation with ma- is only available with a habitual reading. This distribution suggests that proto-CNA minimally exhibited the the subordinate clause structures necessary for main clause negation with ma- to develop in the CNA languages. In the following section, I argue that analogy played a major role in auxiliation for both Wayúu and Garifuna.

3.3.2 Analogy

Returning to a view of syntactic change where grammaticalization and analogy are formal mechanisms driving reanalysis (Garrett, 2012), and having ruled out grammaticalization as playing a role in the emergence of Garifuna auxiliaries, we are left with analogy as the driving force behind reanalysis of CNA auxiliaries as adpositions.

Garifuna I propose that the remaining Garifuna auxiliaries entered the grammar in three cycles, which I lay out in detail here: first, the auxiliary a was reanalyzed as a perfect marker due to the fact that the suffixing verb stem type which co-occurs with negation and the auxiliary a has a default perfect reading; second, the suffixal TAM markers -gi and -ba were reanalyzed as auxiliaries on analogy with the perfect auxiliary a as fellow members of Garifuna's TAM system; finally, the auxiliary-marking pattern was extended to the adposition a uma in non-perfect contexts where the suffixing verb stem type is used.

In morphologically intransitive clauses, verbs that mark an A or S_a argument suffixally and carry no overt TAM marker exhibit a perfect reading, but no synchronically segmentable morpheme encoding perfect aspect for many verbs. Though many of these verbs end in

-ha, the pattern is irregular. This fact is observed in (100), where the A argument of aliha 'read' is cross-referenced on the verb with a suffixal person marker. This A and S_a suffixing verb stem is the same verb stem used under negation and so necessarily the same stem type which must have undergone insubordination with the negative marker ma- and the auxiliary a. My proposal is that this co-occurrence between unmarked perfect aspect and the semantically empty auxiliary a, along with the phonological similarity of -ha and a, allowed for the reanalysis of a as the locus of perfect marking in this construction — a stem ending in ha and carrying a perfective meaning appears in a subordinate clause with a free morpheme a, and this morpheme is then interpreted as the locus of perfective meaning.

(100) Alihali Pablo bandi garada.

```
aliha -li Pablo bandi garada
read -3.SG.M Pablo many book
'Pablo has read many books.'
(Sheil (2012, p. 12))
```

Once a developed its function as a main clause verbal element capable of carrying prefixal person marking, it also developed the ability to carry a suffixal person marker cross-referencing an O argument like the prefixing verb stem found for lexical verbs, yielding the person-marking pattern exhibited in (101).

(101) Hala tali bolu.

```
hala t- a -li bolu
break 3.SG.F- PERF -3.SG.M bowl
'She has broken the bowl.'
(Sheil (2012, p. 12))
```

I argue this change is analogical — most verbs in Garifuna exhibit both morphologically transitive and morphologically intransitive stems, where a morphologically intransitive verb exclusively takes prefixal person marking cross-referencing its subject, and its transitive version exhibits prefixal marking for its subject as well as suffixal person marking cross-referencing its direct object. Once auxiliary a exhibited a main-clause use as the locus of core argument marking, it analogized to this pattern. This analogy is schematized in (102).

(102) AGR.PRE-VERB: AGR.PRE-VERB-AGR.SUFF: AGR.PRE-a: AGR.PRE-a-AGR.SUFF

Under this analysis, one might expect to see prefixal marking of an S_a argument on the perfect auxiliary a in main clauses, like we find in subordinate clauses, exactly as we saw in example (98). However, the perfect use of the auxiliary only exhibits prefixal marking in

the case that it is transitive. The question remains open at the present. It seems likely this pattern was exhibited at some stage of the language, given the insubordination analysis I have proposed here. It is possible that the established presence of stem-alternating perfect marking as in (100) prevented such a pattern from spreading.

Turning now to the other TAM auxiliaries, I propose that the a-marking pattern was analogically extended to gi and ba, as morphemes that form a semantic class with perfect ha/a. Lokono exhibits perfect -ka, which is the expected cognate for Garifuna -ha, as well as future -fa, cognate to Garifuna -ba. For Lokono, neither of these forms carries prefixal subject marking — these only appear as suffixal verbal morphology, which I take to be the historical state of affairs for proto-CNA TAM markers. I argue here that the insubordination-driven reanalysis of auxiliary a as the free version of perfect -ha put analogical pressure on the remaining suffixal TAM morphemes, such that these, too, developed independent uses. The analogical template is schematized in (103).

(103) VERB-ha-AGR.SUFF: VERB AGR.PRE-a-AGR.SUFF: VERB-ba-AGR.SUFF: VERB AGR.PRE-ba-AGR.SUFF

Such a spread would have occurred for either a future transitive or continuative transitive clause under negation, since the negation marker ma- occupies the prefixal slot where an A argument is encoded in non-negated clauses, as discussed in §3.3.1. Table 3.5, repeated here as Table 3.7, shows the synchronic person-marking patterns available for each of these morphemes.

	Positive	Negative
Aorist umu	VERB A- umu -O	VERB A- umu -O
Perfect ha	VERB A- ha -O, -S	VERB A- ha -O, S
continuative gi	VERB A- gi -O, -S	VERB A- gi -O, S
Future ba	A-, S- VERB ba -O	VERB A- ba -O, -S

Table 3.7: Summary of auxiliary person marking adapted from Kaufman (2010)

It is observed that the auxiliaries ha and gi exhibit the same person marking pattern. Future marker ba, however, only exhibits prefixal person marking when the main verb is negated. I attribute this to the fact that ha and gi are only compatible with the Garifuna verb stem type incompatible with prefixal person morphology. Future ba, on the other hand, appears with the prefixing verb stem type in non-negated contexts, which allows for prefixal person marking on the lexical verb, itself, except under negation. The minimal difference in A-marking strategies is shown in examples (104) and (105), where the subject of the transitive, future-marked verb eihi 'see' is cross-referenced via the prefixal person marker n- on the lexical verb, itself, and the person marking cross-referencing the subject of the transitive, perfect-marked verb aliha 'read' is carried by perfect ha.

(104) Neihi bei.

```
n- eihi ba -i
1.SG see FUT SG.M
```

'I will see him.'
(Ekulona (2000, p. 26))

(105) Aliha laru garada.

```
aliha l- ha -ru garada
read 3.SG.M- PERF -3.SG.F book
```

'He had already read the book.' (Kaufman (2010))

The final step in the development of auxiliaries in Garifuna is the emergence of *umu* in transitive contexts underspecified for TAM. The relevant construction is exemplified in (106); subject and object markers are hosted by a semantically empty auxiliary *umu* and the lexically contentful verb *hou* 'eat' carries no person markers. The auxiliary *umu* only appears in transitive constructions; the A argument is always prefixed on *umu* and the O argument is always suffixed.

(106) Hou lumutu Pablo üdüraü.

Garifuna

```
hou l- umu -tu Pablo üdüraü eat 3.SG.M- AOR -3.SG.F Pablo fish
```

'Pablo ate the fish.'
(Stark, notebook 1, p.75)

I suggest that the diachronic source of this auxiliary was the benefactive adposition, umu. I propose that the a argument-marking pattern was analogically extended to umu in non-perfect contexts where the suffixing verb stem type is necessary: either under negation or under new stage, as discussed in Chapter 2. Given that adpositions canonically license noncore arguments, and that adpositions in Garifuna carry prefixal person marking for their objects, and that elsewhere in the language prefixal person marking always encodes an A or S_a argument, a context where reanalysis of a prefixal adpositional object as an agent could occur is easy to imagine. It would simply require a context where a third person subject and a third person noncore argument were both pronominal, and a lexical verb semantically encoded more than one participant. Example (108) shows such a context.

(107) Houti lumu. pre-Garifuna

```
hou -ti l- umu eat -3.SG.M 3.SG.M- BEN 'He ate for him/it.'
```

(108) Abinahatu tumu.

pre-Garifuna

```
abinaha -tu t- umu dance -3.SG.F 3.SG.F- BEN
'She danced for her/it.'
```

Here, the analogical template is, again, constructions involving auxiliary a, a post-verbal element which takes prefixal person marking cross-referencing a syntactic subject. This analogy is schematized in (109). Person-marking strategies involving main clause constructions involving auxiliary a are analogically extended to umu, as both these items were historically post-verbal elements carrying prefixal person morphology.

```
(109) VERB AGR.PRE-a : VERB AGR.PRE-a-AGR.SUFF : VERB AGR.PRE-umu : VERB AGR.PRE-umu-AGR.SUFF
```

Broadly, the regularity with which subjects are cross-referenced via prefixal agreement markers, systematic morphological ambitransitivity for verbs, and prefixal person marking on non-verbal heads all play a role in the availability of reanalysis here. For Garifuna, it appears that insubordination of a construction involving auxiliary a played a crucial role in the analogical extension of verbal person-marking strategies to non-verbal elements, and ultimately to the reanalysis of these elements as verbal.

Wayúu For Wayúu, I argue that reanalysis of adpositions as auxiliaries was facilitated by the development of the desiderative use of ain alongside its adpositional use. Like for Garifuna a, The analogical template that allowed for adposition ain to carry suffixal agreement morphology for core verbal arguments is provided by patterns of argument marking exhibited by ambitransitive verbs, where these may optionally cross-reference one argument (prefixally), or two (prefixally and suffixally). The presence of both an auxiliary and adpositional ain caused the other adpositions in the language to develop such uses by analogy.

Wayúu trajectory:

- 1. Experiencer subjects are cross-referenced prefixally on adposition ain.
- 2. ain develops suffixal cross-referencing pattern on analogy to ambitransitive verbs while retaining adpositional use in non-experiencer constructions, schematized in (110).

- 3. Adpositions *au* and *ou* develop auxiliary uses on analogy to the *ain* pattern, schematized in (111).
- (110) AGR.PRE-VERB: AGR.PRE-VERB-AGR.SUFF:: AGR.PRE-ain: AGR.PRE-ain-AGR.SUFF
- (111) AGR.PRE-ain: AGR.PRE-ain-AGR.SUFF:: AGR.PRE-AD: AGR.PRE-AD-AGR.SUFF

As in the case of Garifuna, the fact that adpostions carry prefixal agreement markers that are identical to those carried by verbs for their subjects created structural ambiguity allowing for the type of analogical change we find has occured in the Wayúu adpositional system, yielding the argument-marking patterns discussed in §3.2.

3.4 Conclusions

In this chapter, I have discussed an alignment pattern found in Wayúu and Garifuna that deviates from the CNA active-stative alignment discussed in Chapter 1. I have proposed that the development of ergative marking in the auxiliary systems of these two languages is innovative, and related to the reanalysis of adpositions as auxiliaries. Given that Garifuna and Wayúu do not form a subgroup, these auxiliaries appear to have been independently innovated in each language. Garifuna only appears to exhibit one modern auxiliary with an adpositional source while Wayúu auxiliaries all appear to have synchronic adpositional uses. While the auxiliary argument-marking patterns in these two languages is superficially similar, the diachronic sources for the auxiliaries themselves appear to be different, providing further evidence that this diachronic change was not joint. Finally, I proposed a possible diachronic path from adposition to auxiliary for each language that involves insubordination and analogy for Garifuna, and analogy, only, for Wayúu.

Garifuna and Wayúu constructions where the lexical items investigated here carry agreement morphology for two verbal participants appear to be instances of a complete change in lexical category from adposition to auxiliary. While such constructions are not found in Lokono or Añun, both languages exhibit the right ingredients for this reanalysis to occur, as both exhibit prefixal oblique subject marking on items other than lexical verbs and the same prefixal subject marking on verbs, themselves. Crucially separating the functions of Añun and Lokono adpositions from their Garifuna and Wayúu counterparts is the fact that Añun and Lokono adpositions never host suffixal person markers that co-index a main verb's syntactic object, the criterion I use here to distinguish the two categories.

A question raised by the analysis presented here is why these changes should occur independently in two closely related languages but not other members of the subgroup, given that all four CNA languages exhibit very similar, inherited morphosyntactic resources. While Lokono and Añun exhibit evidence that insubordination has occurred in their grammars, they did

not develop auxiliaries from adpositions like Garifuna and Wayúu. It is possible that the grammatical changes examined here are partially due to contact with the Cariban languages, which also exhibit effects of insubordination, and which are spoken in close proximity to both Garifuna and Wayúu. South America is a linguistic region well known for long term stable multilingualism among indigenous groups. The CNA languages provide a rich area for future research into pre-colonial contact effects among unrelated American languages.

Finally, an important finding of this chapter is that ergative alignment can arise without intermediate passivization, as also discussed in Gildea (1998). What is particularly interesting about the Northern Arawak case is that ergative marking was facilitated by a typologically uncommon change from adposition to auxiliary, where the Cariban change from adposition to case marker is fairly common. It is possible that this change is attributable to the different loci of marking for grammatical relations in head-marking versus dependent-marking languages.

Chapter 4

Conclusions and future research

This thesis has examined morphosyntactic change in the person-marking and alignment systems of the modern Caribbean Northern Arawak languages, Garifuna, Lokono, Wayúu, and Añun. Carrying out comparative analyses of morphosyntactic change in the grammars of these languages allows us to understand the diachronic sources of typologically interesting static patterns presented by the CNA languages. I investigated grammatical change in two areas in detail. Chapter 2 examined the development of a suffixal argument-marking strategy that encodes syntactic subject across verb type for Garifuna, Wayúu, and Añun in some instances, obscuring an otherwise robust pattern of active-stative alignment in CNA that encodes subjects of transitive verbs and subjects of active intransitive verbs prefixally, and subjects of stative intransitive verbs and objects suffixally. Chapter 3 examined the auxiliary systems of Garifuna and Wayúu, which exhibit typologically rare VAuxSO word order, and linked this fact to the diachronic relationship between adpositions and auxiliaries in these languages.

To establish an internal branching for the CNA languages, I carried out a lexical phylogenetic study presented in Chapter 1 that supported the analyses about joint and independent changes for these languages I developed in the rest of the dissertation. The lexical phylogenetic analysis resulted in a topology that deviates from the received view of internal branching for the clade in grouping Taino and Garifuna to the exclusion of TA-Arawak, Taino having traditionally been grouped as a member of TA-Arawak to the exclusion of Garifuna. I also reexamined morphological evidence for including Taino in TA-Arawak and found it to be compatible with the proposed structure. Future research will expand the phylogenetic analysis to include data for Island Carib. The lexical database created for the phylogenetic analysis will provide the empirical data for a phonological reconstruction of the CNA languages.

The comparative morphosyntactic work carried out for the analyses presented here allow for several avenues of future research. First, I proposed in Chapter 2 that the change from subject nominalizer to agreement morphology was available for the CNA languages because of the typological properties of being head marking, and of carrying out subordination, and in particular, relativization, via syntactic nominalization. This claim is predictive and empirically testable — many languages of the Americas carry out subordination generally via nominalization, and many are head marking. My proposal suggests we should expect to find other cases where nominalizers have been reanalyzed as agreement morphology in other languages that exhibit these features.

Related to this, in Chapter 3, I proposed that exhibiting prefixal argument marking that is identical to a possessive marker and to prefixal agreement on adpositions allowed for reanalysis of adpositions as verbal. This proposal is also predictive and empirically testable. It is possible that both these changes appear to be typologically rare precisely because not enough diachronic work has been carried out for the many South American languages that exhibit these typological properties. With the high quality descriptive work that has been generated for the South American languages in recent decades, such studies are now possible.

Bibliography

- Aikhenvald, A. Y. (1999). The Arawak language family. In C. U. Press (Ed.), *The Amazonian languages*, Chapter 3, pp. 65–106. R. M. W. Dixon and Alexandra Y. Aikhenvald.
- Aikhenvald, A. Y. (2001). Verb types, non-canonically marked arguments and grammatical relations: A Tariana perspective. In A. Y. Aikhenvald and R. M. W. Dixon (Eds.), *Non-canonical marking of subjects and objects*, pp. 177–200. John Benjamins Publishing Company.
- Aikhenvald, A. Y. (2003). A grammar of Tariana. Cambridge University Press.
- Álvarez, J. (2007). Vocalic mora augmentation in the morphology of Guajiro/Wayuunaiki. Lingua Americana 11(20).
- Álvarez, J. (2008). Esbozo grammatical de la lengua Añú.
- Álvarez, J. (2014, September). Manual de la lengua Wayuu.
- Álvarez, J. and M. Bravo (2008). *Diccionario basico de la lengua Ánú*. Maracaibo, Sinamaica, and El Moján.
- Baker, M. and N. Vinokurova (2009). On agent nominalizations and why they are not like event nominalizations. *Language* 85, 517–556.
- Barðdal, J. (2013). Construction-based historical-comparative reconstruction. In T. Hoffmann and G. Trousdale (Eds.), *Oxford Handbook of Construction Grammar*, Chapter 24, pp. 438–457. New York: Oxford University Press.
- Bowern, C. (2010, December). Historical linguistics in Australia: trees, networks and their implications. In James Steele, Peter Jordan, and Ethan Cochrane (Eds.), *Cultural and linguistic diversity: evolutionary approaches*, Volume 365, pp. 3845–3854. Philosophical transactions of the Royal Society B.
- Bowern, C., H. Haynie, C. Sheard, B. Alpher, P. Epps, J. Hill, and P. McConvell (2014). Loan and inheritance patterns in hunter-gatherer ethnobiological nomenclature. *Journal of Ethnobiology* 34(2), 195–227.
- Breton, R. (1900). Dictionaire français-caraibe. Leipzig, B.G. Teubner.

- Bybee, J., R. Perkins, and W. Pagliuca (1994). The evolution of grammar: tense, aspect, and modality in the languages of the world. University of Chicago Press.
- Campbell, L. (2012). Classification of the indigenous languages of South America. In L. Campbell and V. Grondona (Eds.), *The Indigenous Languages of South America: A comprehensive guide*, pp. 59–166. Berlin: Gruyter Mouton.
- Campbell, L. and V. Grondona (Eds.) (2012). The Indigenous Languages of South America: A comprehensive guide. Berlin: Gruyter Mouton.
- Campbell, L. and A. C. Harris (2002, November). Syntactic reconstruction and demythologizing 'Myths and the prehistory of grammars'. *Journal of Linguistics* 38(3), 559–618.
- Captain, D. M. and L. B. Captain (2005). Diccionario básico ilustrado Wayuunaiki-Español, Español-Wayuunaiki. Bogóta: Editorial Buena Semilla.
- Cayetano, E. R. (1993, February). *The People's Garifuna Dictionary*. Dangriga, Belize: National Garifuna Council.
- Chang, W., C. Cathcart, D. Hall, and A. Garrett (2015). Ancestry-constrained phylogenetic analysis supports the Indo-European steppe hypothesis. *Language* 91(1), 194–244.
- Chen, I.-H. (2012, May). Two types of Garifuna complement clauses.
- Comrie, B. and S. A. Thompson (1985). Lexical nominalization. In T. Shopen (Ed.), Language Typology and Syntactic Description. Cambridge University Press.
- de Carvalho, F. O. (2016). The diachrony of person-number marking in the Lokono-Wayuunaiki subgroup of the Arawak family: reconstruction, sound change and analogy. *Language Sciences* 55, 1–15.
- de Goeje, C. H. (1939). Nouvel examen des langues des Antilles. *Journal de la Société des Américanistes 31*(1), 1–120.
- Dixon, R. M. W. (2010). *Basic Linguistic Theory*, Volume 1. Oxford: Oxford University Press.
- Dowty, D. (1991, September). Thematic proto-roles and argument selection. *Language* 67(3), 547–619.
- Drummond, A. J. and A. Rambaut (2007). BEAST: Bayesian evolutionary analysis by sampling trees. *BMC Evolutionary Biology* 7(214).
- Ehrman, S. (1972). Wayuunaiki: a grammar of Guajiro. Ph. D. thesis, Columbia University.
- Ekulona, T. J. (2000). The ba morpheme in Garifuna. Master's thesis, UCLA.
- Epps, P. (2012). Between headed and headless relative clauses. In B. Comrie and Z. Estrada-Fernández (Eds.), *Relative Clauses in Languages of the Americas: A typological overview*, Volume 102, pp. 191–212. John Benjamins.

- Erteschik-Shir, N. (1997). The dynamics of focus structure. Oxford: Cambridge University Press.
- Erteschik-Shir, N. (2007). Information structure: The syntax-discourse interface. Oxford: Oxford University Press.
- Evans, N. (2007). Insubordination and its uses. In I. Nikolaeva (Ed.), *Finiteness: Theoretical and Empirical Foundations*, Chapter 11, pp. 366–431. Oxford University Press.
- Garrett, A. (1990, June). The Origin of NP Split Ergativity. Language 66(2), 261–296.
- Garrett, A. (2012). The historical syntax problem: Reanalysis and directionality. In D. Jonas, J. Whitman, and A. Garrett (Eds.), *Grammatical change: Origins, nature, outcomes*, pp. 55–72. Oxford University Press.
- Gijn, R. V. (2014). Subordination strategies in South America: nominalization. In L. O'Connor and P. Muysken (Eds.), *The Native Languages of South America. Origins, Development, Typology*, Chapter 274-296. Cambridge: Cambridge University Press.
- Gildea, S. (1998). On reconstructing grammar: comparative Cariban morphosyntax. Oxford University Press.
- Gray, R. D. and Q. D. Atkinson (2003). Language-tree divergence times support the Anatolian theory of Indo-European origin. *Nature* 426, 435–39.
- Harris, A. C. (2008). Reconstruction in syntax: Reconstruction of patterns. In G. Ferraresi and M. Goldbach (Eds.), *Principles of Syntactic Reconstruction*, pp. 73–95. Amsterdam: John Benjamins.
- Haurholm-Larsen (2016). A Grammar of Garifuna. Ph. D. thesis, University of Bern.
- Haurholm-Larsen, S. (2015). Why state the obvious? Tense-aspect marking as a clue to information structure in Garifuna. Portland, Oregon. SSILA.
- Hawkins, J. A. (1994). A Performance theory of order and constituency. New York: Cambridge University Press.
- Heine, B. (1993). Auxiliaries: Cognitive Forces and Grammaticalization. Oxford: Oxford University Press.
- Heine, B. (2002). On the role of context in grammaticalization. In I. Wischer and G. Diewald (Eds.), *New reflections on grammaticalization*, pp. 83–100. Amsterdam and Philadelphia: John Benjamins.
- Heine, B. and T. Kuteva (2004). World Lexicon of Grammaticalization. Cambridge, New York: Cambridge University Press.
- Higgins, F. R. (1979). The Pseudocleft construction in English. New York: Garland.

- Hopper, P. J. and E. C. Traugott (2003). *Grammaticalization*. Cambridge Textbooks in Linguistics. Cambridge University Press.
- Jusayu, M. A. and J. O. Zubiri (1981). *Diccionario de la lengua Guajira, Castellano Guajiro*. Universidad Católica Andrés Bello, Centro de Lenguas Indígenas.
- Kaufman, D. (2010). Greenberg's 16th slayed in the Bronx? Language universals and fieldwork in NYC. Talk at Harvard University.
- Kaufman, T. (1994). The native languages of South America. In C. Moseley and R. E. Asher (Eds.), *Atlas of the world's languages*, pp. 46–76. London: Routledge.
- Lewis, M. P., G. F. Simons, and C. D. Fennig (Eds.) (2016). *Ethnologue: Languages of the World, Online version: http://www.ethnologue.com.* (17th ed.). SIL International.
- Li, C. N. and S. A. Thompson (1976). Subject and topic: a new typology of language. In C. N. Li (Ed.), *Subject and topic*, pp. 457–489. New York: Academic Press.
- Lightfoot, D. (1979). Principles of Diachronic Syntax. Cambridge University Press.
- Matteson, E. (1972). Proto Arawakan. In E. Matteson, A. Wheeler, F. Jackson, N. Waltz, and D. Christian (Eds.), *Comparative Studies in Amerindian Languages*, Number 127 in Janua linguarum, Serie practica, pp. 160–242. The Hague: Mouton.
- Michael, L. (2011, October). Verbal person markers as pronouns in Matsigenka. Talk at Group in American Indian Languages (GAIL) meeting.
- Michael, L. (2014). A typological and comparative perspective on negation in Arawak languages. In L. Michael and T. Granadillo (Eds.), *Negation in Arawak Languages*, Chapter 11, pp. 235–292. Brill. In press.
- Michael, L., N. Chousou-Polydouri, K. Bartolomei, E. Donnelly, V. Wauters, S. Meira, and Z. O'Hagan (2015). A Bayesian Phylogenetic Classication of Tupí-Guaraní. *LIAMES* 15(2), 193–221.
- Mikkelsen, L. (2005). Copular clauses: specification, predication and equation. Amsterdam: John Benjamins.
- Munro, P. (2007). Oblique subjects in Garifuna. In P. Austin and A. Simpson (Eds.), *Endangered languages*, pp. 113–142. LB Sonderheft.
- Munro, P. (2014). Garifuna negatives. In L. Michael and T. Granadillo (Eds.), *Negation in Arawak Languages*, Chapter 2, pp. 11–50. Brill. In press.
- Noble, G. K. (1965). *Proto-Arawakan and its Descendants*. Bloomington, Indiana: Indiana University.
- Oswalt, R. L. (1971, December). Towards the construction of a standard lexicostatistic list. *Anthropological Linguistics* 13(9), 421–434.

- Patte, M.-F. (1989). Estudio descriptivo de la lengua Añun (o "Paraujano"). Universidad Catolica del Tachira.
- Patte, M.-F. (2011). La langue arawak de Guyane: Presentation historique et dictionnaires arawak-français et français-arawak. Marseille: Institut de recherche pour le développement.
- Patte, M.-F. (2014). Negation in Guyanese Lokono/Arawak. In L. Michael and T. Granadillo (Eds.), *Negation in Arawak Languages*, Chapter 3, pp. 51–70. Brill. In press.
- Payne, D. L. (1991a). Clasificadores nominales: La interacción de la fonología, la gramática y el léxico en la envestigación comparativa del maipurán. In I. P. Pastor (Ed.), *Revista latinoamericana de estudios etnolinguisticos*, Volume VI, pp. 241–258. Ignacio Prado Pastor.
- Payne, D. L. (1991b). A classification of Maipuran (Arawakan) languages based on shared lexical retentions. In D. C. Derbyshire and G. K. Pullum (Eds.), *Handbook of Amazonian languages*, Volume 3, pp. 356–499. Mouton de Gruyter.
- Pet, W. J. A. (1987). A Grammar sketch and lexicon of Arawak (Lokono Dian). Ph. D. thesis, Cornell University.
- Plemenitaš, K. (2015). Aspects of nominalization from a cognitive perspective. In S. Starc, C. Jones, and A. Maiorani (Eds.), *Meaning Making in Text: Multimodal and Multilingual Functional Perspectives*, Chapter 4, pp. 72–91. New York: Palgrave Macmillan.
- Prendergast, E. (2012, July). The power of one: *Aba* and predicate subordination in Garifuna. Talk at UCLA American Indian Seminar.
- Pustet, R. (2003). Copulas: universals in the categorization of the lexicon. Oxford: Oxford University Press.
- Ramirez, H. (2001). Línguas Arawak da Amazônia Setentrional. Comparação e descrição. Manaus: Editora da Universidade do Amazonas.
- Reinhart, T. (1981). Pragmatics and linguistics: An analysis of sentence topics. *Philosophica* 27, 53–94.
- Reyes, R. (2012). Garidia: Garifuna Trilingual Dictionary (Garifuna-English-Spanish). Garifuna institute.
- Rizzi, L. (2004). On the cartography of Syntactic Structures. In L. Rizzi (Ed.), *The Structure of CP and IP*, pp. 3–15. Oxford: Oxford University Press.
- Rouse, I. (1993). The Tainos: Rise and decline of the people who greeted Colombus. New Haven: Yale University Press.
- Rybka, K. (2016). The grammar of landscape. Ph. D. thesis, University of Amsterdam.
- Segerer, G. and S. Flavier (Eds.) (2011-2016). SAmLex, comparative database running RefLex framework. Paris, Lyon: Reference Lexicon, Version 1.1.

- Seki, L. (2000). Gramática Kamaiurá: Língua Tupi-Guarani do Alto Xingu. Campinas.
- Sheil, C. (2012). Case in head marking languages.
- Stark, T. (2017). Caribbean northern arawak subgrouping: lexical phylogenetics and comparative morphology. Paper presented at the Society for the Study of the Indigenous Languages of the Americas, Austin, TX, January 6.
- Swadesh, M. (1955). Towards greater accuracy in lexicostatistic dating. *International Journal of American Linguistics* 21(2), 121–137.
- Taylor, C. (2012). The Black Carib Wars: Freedom, survival, and the Making of the Garifuna. Jackson: University Press of Mississippi.
- Taylor, D. (1935, April-June). The Island Caribs of Dominica, B.W.I. American Anthropologist 37(2), 265–272.
- Taylor, D. (1951). The Black Carib of British Honduras. New York: Wenner-Gren Foundation for Anthropological Research.
- Taylor, D. (1977). Languages of the West Indies. Johns Hopkins studies in Atlantic history and culture. Baltimore: Johns Hopkins University Press.
- Taylor, D. and I. Rouse (1955). Linguistic and archeological time depth in the West Indies. *International Journal of American Linguistics* 21(2), 105–115.
- Trask, R. L. (2000). The Dictionary of Historical and Comparative Linguistics. Psychology Press.
- Uriana, J. G. and R. P. Ipuana (2000). Guajiro (Wayuu), pp. 342–397. Fundación Bigott.
- Valenti, D. M. (1986). A reconstruction of the Proto-Arawakan consonantal system. Ph. D. thesis, New York University.
- von Martius, C. F. P. (1867). Wörtersammlung Brasilianischer Sprachen. Leipzig: Martin Sändig.
- Walker, R. S. and L. A. Ribeiro (2011, January). Bayesian phylogeography of the Arawak expansion in lowland South America. *Proceedings of the Royal Society B*.
- Warnow, T. and J. Nichols (2008). Tutorial on computational linguistic phylogeny. *Language* and *Linguistics Compass* 2(5), 760–820.
- Zubiri, J. O. and M. A. Jusayu (1978). *Gramatica de la lengua Guajira*. Lenguas indígenes de Venezuela. Universidad Católica Andrés Bello, Centro de Lenguas Indígenas.

Appendix: CNA cognates

Gloss		23. Añun [pbg]	24. Lokono [arw]	25. Wapis- hana [wap]	27. Wayuu [guc]	30. Gari- funa [cab]	31. Palikur [plu]	33. Ach- agua [aca]	34. Baniwa [bwi]	32. Taino [tnq]
afternoon afternoon afternoon afternoon afternoon	n 02 n 03 n 04 n 05	jatupa	bakulama	wachuupun	aliika in	ranbaweyu	maviyvi ahawkanavi			
afternoo								táikala	14	
afternoon agouti 0	1								déepiina	aguti
agouti 03						aguri	uwan			
agouti 0	4							híiſi		mohuy
agouti 05 agouti 06			hokorhêro	sokoru				miji		
ají 01 ají 02			athi	didada	jashi'	ati	atit		áatti	
ají 03 animal 0	1			arada	üta'müin mürülü					
animal 0 ankle 01	2		khota		aaluwain					
ankle 02			karopaira		aaiuwaiii					
ankle 04 ankle 05				baruri'i		umurugutei				
ankle 06 ankle 07							gimakuyan	a		
ankle 08								kúdu∫i		gua
ankle 09 ant 01		:-~-()				L			tawirhe	
ant 01 ant 02 anteater	01	jañu(n)	kashishi tamanoa	tamanawaa	jeyuu	haü	kasis tamanwa	kée∫i	keétto	
anteater			wariti	tamanawaa	walii		wariy			
anteater aquatic	03 snail		baremu	paashim	warrutta	wadabu		walaiuta	páapali	
01					warrawa	wadabu		waiaiata		
aquatic 02	snail	karakoola								
aquatic 03	snail		alaka							
aquatic 04	$_{ m snail}$			uway						
aquatic	$_{ m snail}$						xuguway			
05 aquatic	snail								tsikówa	
07 arm 01		atüna	duna		atüna	arünaü				
arm 02			dana	anoba	avana	ar arra				
arm 03 arm 04							giwan	naa∫i		
arm 05								,	-naapa	
armadille armadille					keri			alitai	aalidali	
armadille	o 03		barhakata							
armadille armadille				kapashi		gasigamu				
armadille armadille							tat	t∫ée		
armadille		poyo			pole'			tjee		
01 armadille	n fish	araa								atatu
02										avatu
arrive 01 arrive 02		einta	andun		antaa	ábürüga				
arrive 03						ao ar aga	danuh			
arrive 04				kaawan						

arrive 05 arrow 01	jatü			o'otoo jatü				-óoka	
arrow 02	3	-L:	bairi						
arrow 03 arrow 04		shimarha		ima'lá	gimara		t∫áawideri		
arrow 05		1 . 15.1.5		. 122	1 - 12 - 2		1.7.19	kapitsiri	
ashes 01 ashes 02	parii	balishi	paritibi	pali'ı	baligi	ahewra	báali		
ashes 03								-wádzole	
ashes, dust 01 ashes, dust 02	moushirein	korheli							
ashes, dust 03			kixana'u						
ashes, dust 04 ashes, dust 05					kaliki	wayk			
,						atabd-			
ashes, dust 06						abni	pukúpukui		
ashes, dust 07								-wittale	
ask (request) 01	ouyapaa	khoyabun							
ask (request)			pishaan						
02 ask (request)				ajulijaa					
03	1								
ask 01 ask 02	asakira	thokodokoto	on	asakiraa					
ask 03			_:-1		alügüda				
ask 04 ask 05			pishaan			aya			
ask 06								-ttátha	
at, to 01 at, to 03	ami	muniro	di'iti	amüin	un				
at, to 05						aduhya		-liko	
at, to 07 axe 01				ashottaa			t∫úu∫i	-nko dzóoka	
axe 02 axe 03	poru	barho	baro	polu'	harawa				
axe 03 axe 04					Halawa	gimegwan			
back 01 back 02	ayuku	âbo							
back 03		abo	barau						
back 04 back 05				asapü	anagani				
back 06					anagani	aduhya			
back 07 back 08							wóhuna∫i	-ttáma	
		lala :		mojuu		má	máa∫i	máatshi	mayana
bad 01		wakhai		mojuu		ma	maaj r		
bad 02		waknai	idikauda'o	mojuu	wiiriba-	ma	maaj i		,
		hîwa	idikauda'o iiwa	mojuu	würiba-	ma	iwówi	iiwa	
bad 02 bad 03 bamboo 01 bamboo 02				pálua	würiba-		•		J
bad 02 bad 03 bamboo 01		hîwa			würiba-	tuwem	•		
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01	kupuntiinii				würiba-		•	íiwa	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04	kununtünü	hîwa	iiwa	pálua	würiba- uraüídibu	tuwem	•	íiwa	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 03	kununtünü	hîwa	iiwa	pálua		tuwem	•	íiwa pheelóma	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03	kununtünü	hîwa	iiwa	pálua		tuwem	iwówi	íiwa	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02	kununtünü	hîwa	iiwa mada	pálua ata		tuwem	iwówi	íiwa pheelóma	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01	kununtünü	hîwa	iiwa mada	pálua		tuwem	iwówi	íiwa pheelóma -ya	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 04 basket 04	kununtünü	hîwa	iiwa mada	pálua ata	uraŭĺdibu	tuwem	iwówi	íiwa pheelóma -ya	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 05 basket 06 basket 07	kununtünü	hîwa	iiwa mada	pálua ata	uraŭĺdibu	tuwem amar	iwówi imanafi kéemali	íiwa pheelóma -ya kaxadádali káame	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 02 basket 04 basket 05 basket 05 basket 07 basket 07 basket 07	kununtünü pürüütü	hîwa	iiwa mada dazoaniz	pálua ata	uraŭĺdibu	tuwem amar	iwówi ímana∫i	íiwa pheelóma -ya kaxadádali	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 01 basket 02 basket 03 basket 04 basket 05 basket 07 bat 01 bat 01 bat 01 bat 02 bat 03		hîwa adada	iiwa mada	pálua ata chonoi	uraŭídibu básigidi	tuwem amar	iwówi imanafi kéemali	íiwa pheelóma -ya kaxadádali káame píittiri	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 07 bat 01 bat 01 bat 02 bat 03 basket 07	pürüütü	hîwa adada buhuri	iiwa mada dazoaniz	pálua ata chonoi	uraüídibu básigidi buriri	tuwem amar kat msibyu	iwówi imanafi kéemali	íiwa pheelóma -ya kaxadádali káame	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 06 basket 07 bat 01 bat 01 bat 01 bat 02 bat 03 bat 04 bat 01 bat 01		hîwa adada	iiwa mada dazoaniz	pálua ata chonoi püsichi	uraŭídibu básigidi	tuwem amar kat	iwówi imanafi kéemali	íiwa pheelóma -ya kaxadádali káame píittiri	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 07 bat 01 bat 02 bat 03 bat 04 bathe 01 bathe 02 bathe 03	pürüütü	hîwa adada buhuri	iiwa mada dazoaniz tamaruo	pálua ata chonoi	uraüídibu básigidi buriri	tuwem amar kat msibyu	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame píittiri	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 07 bat 01 bat 01 bat 02 bat 03 bath 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 04 bathe 05	pürüütü	hîwa adada buhuri kan	iiwa mada dazoaniz tamaruo	pálua ata chonoi püsichi	uraüídibu básigidi buriri	tuwem amar kat msibyu	iwówi imanafi kéemali	íiwa pheelóma -ya kaxadádali káame píittiri	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 06 basket 07 bat 01 bat 02 bat 01 bat 02 bat 03 bat 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 05 be angry 01	pürüütü	hîwa adada buhuri	iiwa mada dazoaniz tamaruo kaokopan	pálua ata chonoi püsichi	uraüídibu básigidi buriri	tuwem amar kat msibyu	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame píittiri wayaámani	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 04 basket 05 basket 07 bat 01 bat 02 bat 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 03 bathe 04 bathe 05 be angry 01 be angry 02 be angry 03	pürüütü	hîwa adada buhuri kan	iiwa mada dazoaniz tamaruo	pálua ata chonoi püsichi	uraüídibu básigidi buriri ágawa	tuwem amar kat msibyu	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame píittiri wayaámani	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 04 basket 05 basket 06 basket 07 bat 01 bat 02 bath 03 bath 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 04 bathe 05 be angry 01 be angry 02	pürüütü	hîwa adada buhuri kan	iiwa mada dazoaniz tamaruo kaokopan	pálua ata chonoi püsichi o'oojoo	uraüídibu básigidi buriri ágawa	tuwem amar kat msibyu	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame píittiri wayaámani	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 06 basket 06 basket 07 bat 01 bat 02 bat 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 03 bathe 04 bathe 05 be angry 01 be angry 01 be angry 04 be angry 04 be angry 06	pürüütü	hîwa adada buhuri kan	iiwa mada dazoaniz tamaruo kaokopan	pálua ata chonoi püsichi o'oojoo	uraüídibu básigidi buriri ágawa	tuwem amar kat msibyu akah	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta	
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 06 basket 07 bat 01 bat 02 bat 03 bath 04 bathe 05 basket 07 bat o1 bat 02 bat 03 bath 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 05 be angry 01 be angry 01 be angry 02 be angry 03 be angry 04 be angry 05 be angry 06 be angry 07	pürüütü aawa	hîwa adada buhuri kan eimatonoan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 04 basket 05 basket 06 basket 07 bat 01 bat 02 bat 03 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 07 bat 01 bathe 01 bathe 01 bathe 05 be angry 01 be angry 04 be angry 04 be angry 06 be angry 07 be bitter 01 be black 01	pürüütü	hîwa adada buhuri kan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo	uraüídibu básigidi buriri ágawa	tuwem amar kat msibyu akah	iwówi íimanaſi kéemali híʃiri	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 03 basket 06 basket 07 bat 01 bat 02 bat 03 bath 04 bathe 01 bathe 02 bat 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 05 be angry 01 be angry 01 be angry 05 be angry 05 be angry 06 be angry 07 be bitter 01 be black 01 be black 01	pürüütü aawa ishi	hîwa adada buhuri kan eimatonoan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 04 basket 05 basket 06 basket 07 bat 01 bat 02 bat 03 bat 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 be angry 01 be angry 01 be angry 02 be angry 03 be angry 04 be angry 07 be bitter 01 be black 01 be black 01 be black 02 be black 03 be black 03 be black 04	pürüütü aawa	hîwa adada buhuri kan eimatonoan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne tiviye	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 05 basket 06 basket 07 bat 01 bat 02 bath 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 be angry 01 be angry 05 be angry 06 be angry 06 be angry 06 be bangry 07 be bitter 01 be black 01 be black 01 be black 02 be black 03	pürüütü aawa ishi	hîwa adada buhuri kan eimatonoan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta íiroa hiipítti	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 04 basket 05 basket 07 bat 01 bat 02 bath 03 bath 04 bathe 01 bathe 02 bathe 03 bathe 04 bathe 10 bathe 01 bathe 02 bathe 03 bathe 04 bathe 01 bathe 05 be angry 01 be angry 02 be angry 03 be angry 06 be angry 07 be bitter 01 be black 01 be black 01 be black 04 be black 04 be black 05 be black 06 be black 06	pürüütü aawa ishi	hîwa adada buhuri kan eimatonoan shife khareme	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne tiviye	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame piittiri wayaámani -pitéeta íiroa hiipítti	hava
bad 02 bad 03 bamboo 01 bamboo 02 bamboo 03 bamboo 04 bark 01 bark 02 bark 03 bark 04 bark 05 basket 01 basket 02 basket 05 basket 06 basket 07 bat 01 bat 02 bath 03 bath 04 bathe 01 bath 02 bath 03 bath 04 bathe 10 bathe 01 bathe 01 bathe 02 bathe 01 bathe 01 bathe 01 bathe 02 bathe 03 bathe 04 bathe 10 be angry 01 be angry 01 be angry 05 be angry 06 be angry 06 be angry 07 be bitter 01 be black 01 be black 01 be black 03 be black 04 be black 04 be black 05 be black 05 be black 06	pürüütü aawa ishi	hîwa adada buhuri kan eimatonoan	iiwa mada dazoaniz tamaruo kaokopan to'oran	pálua ata chonoi püsichi o'oojoo aashichijawa	uraüídibu básigidi buriri ágawa aa gain-	tuwem amar kat msibyu akah dagawne tiviye	iwówi iimanafi kéemali hífiri híderi	íiwa pheelóma -ya kaxadádali káame píittiri wayaámani -pitéeta íiroa hiipítti	hava

be l	born 03				jemeiwaa					
	born 04				3		wayvuka		,	
	born 05							1.441.1	hiiko	
be 01	dark/night			aiwaka'an				katáwakai	daawáka	
	dark/night		orharho							
02	1. 1 / 1.14				,					
be 03	dark/night				sa'wai					
	dark/night					búrigi-				
04	-ll-/:l-4									
be 05	dark/night						msanap			
	full 01	amira								
	full 02			paidan		, .				
	full 03 full 04					buin	kivunsa			
	full 05							káawai		
	full 06								-keettadáta	
	full 07 hanging 01	kacheta			pirataa kachetaa					
	hanging 02		nukudan		Racifetaa					
be l	hanging 03			sawikinan						
	hanging 04 hanging 05					adibira	kuwigiwh			
	hanging 05						Kuwigiwii	kúahideriu		
be l	hanging 07								írokawa	
	hanging 08		1 -1-11 -1 -							koiro
	hарру 01 hарру 02	payawa	halekhebe							
	happy 03	payawa		konaukia'o						
	happy 04				talataa					
	hарру 05 hарру 06					gúnda-	bateke			
	парру 00						Dateke	sáitai		
be l	парру 08								kattiima	
	hot 01				ja'iwaa					
	not 02 not 03	kamaira				sü-				
	hot 04	1431114114						amuái		
	hot 05								hámo	
	hot 06 hot 07		there	wichan						
	hot 08			wichan			awahne			
	nungry 01						mativwa		mawittákai	
	hungry 02 hungry 03	jaamüka	funasha		jamü					
	hungry 04		Tuliaslia	zamazin						
be l	hungry 05					a\$láma\$cha				
	nungry 06 inclined 01		faroreken		amo'rrolouá	2 Group Gra			mepinaa	
	intoxicated	apera	laroreken		eperaa	афточнфта				
01										
bе 02	intoxicated			po'idipan						
	intoxicated					bacharua-				
03										
be 04	intoxicated						uwkya			
	intoxicated							kámaimau		
05									,	
	intoxicated								idewanakaita	ι
06 be l	lost 01	moto								
be l	lost 02		kashina							
	lost 03 lost 04			pozawatan	amüloulii					
	lost 04				amuloulli	álüda				
	lost 06						biyukavye			
	lost 07								máanali	
	ying 01 ying 02	oüraa	burhê							
be l	ying 03			washatinan						
	ying 04				eisalawaa					
	ying 05 ying 06					roun		rúweriu		
	lying 07							rawerra	-koawa	
be o	odorous 01	emewa	kame			héme-				
he '	odorous 02			damainan	eejuu					
	odorous 03			damaman			imihe			
	odorous 04							íisani∫i		
	odorous 05 pointy 01	kamenaa	kamana						pomeni	
		poüra	minand		ipuoluu					
be p	oregnant 02			kaudanin						
	oregnant 03 oregnant 04		kadibeyo			dageina-				
	oregnant 04 oregnant 05					augema-	kamukanyo			
be p	oregnant 06								kewédani	
be 1	ripe 01		hebe		je'wee				éewa	

be ripe 02							híirii	íitta	
be ripe 03 be ripe 04	jaküta	korhe							
be ripe 05		Korne	ozokan						
be ripe 06 be ripe 07				ja'yumuu	funá-				
be ripe 08					iuna-	muwebdi			
be sad 01				mujuu aa'in					
be sad 02	japüya			aa III					
be sad 03 be sad 04					híru-	bawki			
be sad 04 be sad 05						Dawki	káiwii		
be sad 06		l	1:		h		1-4:	iinónaa kemána	
be sharp 01 be sharp 02		kamana	dimana'o	kasaa	hamana-		kéemai	кешапа	
be sharp 03						guyawmu			
be shiny 01 be shiny 02	aruusa							kéraa	
be shiny 03		helodon	,.,						
be shiny 04 be shiny 05			wizi'i'o	jotaa					
be shiny 06					miri-	1.1.4.2			
be shiny 07 be sick 01		haboa		aapuwaa		kabutnih			
be sick 02		kari	karinaan	1::					
be sick 03 be sick 04	aya			ayuulii	sándi-				
be sick 05						kakahrip	L 21::		
be sick 06 be small 01	chon			jo'uuchon			bálineriu	tsóo	
be small 02			1.						nianti
be small 03 be small 04		ibi	sodi		ñübüri-				
be small 05						nopsesa	,		
be small 06 be small 07							piituituu	tíki	
be smooth 01	sirata			sinataa				OIKI	
be smooth 02 be smooth 03		tele	midoda'o						
be smooth 04			midoda o			akikin			
be smooth 05 be smooth 06							hunihuni	Irántti	
be sour 01		boraha						kéetti	
be sour 02 be sour 03			diri'o	inghii'iiwan	aariihii				
be sour 04				jashü'üwaa	garunu-	suwiyno			
be sour 05							ihí∫i	káama	
be sour 06 be standing 01				sha'wataa	araramaha			кааша	
be standing 02	atoüntaa	dinabun							
be standing 03 be standing 04	atountaa		kadishitan						
be standing 05						kannikaw	bárueriu		
be standing 06 be standing 07							Darueriu	hiníko	
be stinky 01	jaüwa	1 1.							
be stinky 02 be stinky 03		kashi	kapowun						
be stinky 04 be stinky 05									
be stinky 05 be stinky 06				keejuwaa•eej					
				keejuwaa•ee	juu hingi-	sunap			
be strong 01	kachin		•			sunap		-áa ttoa	
be strong 01 be strong 02	kachin		ma'ozaka'o	keejuwaa eej				-áa ttoa khedzáako	
be strong 01 be strong 02 be strong 03	kachin	tata				sunap			
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05	kachin	tata				datyo			
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06	kachin	tata			hingi-				carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08	kachin	tata			hingi-	datyo	kadánaniinir	khedzáako	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01	kachin				hingi-	datyo	kadánaniini	khedzáako	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08		tata			hingi-	datyo	kadánaniini	khedzáako	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04					hingi- gabafu-	datyo		khedzáako	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 06			ma'ozaka'o	katchinwaa	hingi- gabafu-	datyo	kadánaniini húht∫ai	khedzáako	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 05 be sweet 06 be sweet 07	jarera			katchinwaa	hingi- gabafu-	datyo		khedzáako u	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 06 be sweet 07 be tasty 01 be tasty 01			ma'ozaka'o bishoa'o	katchinwaa	hingi- gabafu-	datyo		khedzáako u	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 07 be tasty 01 be tasty 01 be tasty 02 be tasty 03	jarera	seme	ma'ozaka'o	katchinwaa	hingi- gabafu- bime-	datyo awaygye kitere		khedzáako u	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 06 be sweet 07 be tasty 01 be tasty 02 be tasty 03 be tasty 04 be tasty 05	jarera	seme	ma'ozaka'o bishoa'o	katchinwaa püsiaa jemetaa	hingi- gabafu- bime-	datyo		khedzáako u	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 07 be tasty 01 be tasty 01 be tasty 03 be tasty 04 be tasty 04 be tasty 04 be tasty 05 be thirsty 01	jarera	seme	ma'ozaka'o bishoa'o kaduunu'o	katchinwaa püsiaa jemetaa miyaasüü	hingi- gabafu- bime-	datyo awaygye kitere		khedzáako u poottídza	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 06 be sweet 07 be tasty 01 be tasty 02 be tasty 03 be tasty 04 be tasty 05 be thirsty 01 be thirsty 01 be thirsty 03	jarera jameta	seme	ma'ozaka'o bishoa'o	katchinwaa püsiaa jemetaa miyaasüü	gabafu- bime- semé-	datyo awaygye kitere		khedzáako u poottídza hóiwi	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 06 be sweet 07 be tasty 01 be tasty 01 be tasty 02 be tasty 03 be thirsty 01 be thirsty 01 be thirsty 03 be thirsty 03 be thirsty 04	jarera jameta	seme seme	ma'ozaka'o bishoa'o kaduunu'o	katchinwaa püsiaa jemetaa miyaasüü	hingi- gabafu- bime-	datyo awaygye kitere maguye		khedzáako u poottídza	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 03 be sweet 04 be sweet 05 be sweet 06 be sweet 07 be tasty 01 be tasty 02 be tasty 03 be tasty 04 be tirsty 05 be thirsty 01 be thirsty 02 be thirsty 03 be thirsty 03 be thirsty 03 be thirsty 04 be thirsty 05 be thirsty 05 be thirsty 05 be thirsty 05	jarera jameta miyaawa	seme	ma'ozaka'o bishoa'o kaduunu'o	katchinwaa püsiaa jemetaa miyaasüü	gabafu- bime- semé-	datyo awaygye kitere maguye		khedzáako u poottídza hóiwi mákaale	carib
be strong 01 be strong 02 be strong 03 be strong 04 be strong 05 be strong 06 be strong 07 be strong 08 be sweet 01 be sweet 02 be sweet 04 be sweet 05 be sweet 06 be sweet 07 be tasty 01 be tasty 01 be tasty 02 be tasty 04 be tasty 04 be thirsty 01 be thirsty 01 be thirsty 02 be thirsty 03 be thirsty 04 be thirsty 05	jarera jameta	seme seme	ma'ozaka'o bishoa'o kaduunu'o	katchinwaa püsiaa jemetaa miyaasüü	gabafu- bime- semé-	datyo awaygye kitere maguye arabyu		khedzáako u poottídza hóiwi	carib

be tired 04			mizainan					
be tired 05		12-1 - 1			bucharua-			
be used to 01 be used to 02		dishadonoan	naudinan					
be used to 02 be used to 03			naudman	eki'rrajiishi				
be used to 04				3	hechu-			
be used to 05						ihuhak		
be used to 06								-dzéeka
be visible 01			aidinan					kathinaa
be warm 01	kamaira		wiicha'o			awahne	amuái	hámo
be warm 02 be warm 03			wiicha o		hárouga-			
be weak 01	kachimpe				narouga			
be weak 02	•					mabimne		
be weak 03								móki
be weak 04		khole						
be weak 05 be weak 06			kakuta'o	matsüinwaa				
be weak 07				matsumwaa	débili-			
be wet 01	jonta							
be wet 02		yoyo						
be wet 03			zabi'o					
be wet 04				chü'laa	anan			
be wet 05 be wet 06					düdü-	sabaptibet		
be wet 07						ваваривее	íisabii	
be wet 08								póotsia
be white 01	kasuu			kasuwaa				
be white 02		harhira			harú-			
be white 03			baraka'o			1		
be white 04 be white 05						seyboye		yalánawi
be wide 01	raüta							yalallawi
be wide 02		biloko						
be wide 03			kazoa'o					
be wide 04				jerulaa	. 14			
be wide 05 be wide 06					tulé-	kirikad		
be wide 00						KIIIKau	manú∫idai	
be wide 08							manaj raar	maka-
be yellow 01	amariiya							
be yellow 02		hehe						
be yellow 03 be yellow 04			oparita'o			kuwikwiye		
be yellow 05						Kuwikwiye	meréekii	
be yellow 06								éewa
be yellow 07				mariiyaa	_			
bead 01 beard 01	oima	kasorhô tîma	kashoroo	kaa'ürüi e'iima	gachuru			
beard 02	eima	tima	dino	ешна				
beard 03					ídiumaü			
beard 04						gisuyum		
beard 05								tsinoma
bee 01	wapa	maba	maaba	mapa	maba		máaba	máapa
bee 02		oyo				ahayak		
						anayak		
beetle 01		adurhukurhi	1					
beetle 01 beetle 02		adurhukurhu	u daadaro					
beetle 02 beetle 03		adurhukurhu				waraym		
beetle 02 beetle 03 beetle 04			daadaro			waraym		táapaliko
beetle 02 beetle 03 beetle 04 belch 01		adurhukurhu rharhaidoan	daadaro	anopias		waraym		táapaliko
beetle 02 beetle 03 beetle 04			daadaro	anoujaa	afienra	waraym		táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3			daadaro	anoujaa	afienra	waraym		táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4		rharhaidoan	daadaro aidan	anoujaa	afienra		é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6			daadaro	anoujaa	afienra		é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01	ayure	rharhaidoan kishidin	daadaro aidan	anoujaa	afienra		é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02	ayure	rharhaidoan	daadaro aidan	anoujaa	afienra		é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01	ayure	rharhaidoan kishidin	daadaro aidan mishidan	anoujaa ale'e	afienra		é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05	ayure	rharhaidoan kishidin	daadaro aidan mishidan		afienra uragei	iha	é?wideri	táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06	ayure	rharhaidoan kishidin	daadaro aidan mishidan					táapaliko
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 06 belly 07	ayure	rharhaidoan kishidin	daadaro aidan mishidan			iha	é?wideri jawai∫i	
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08		rharhaidoan kishidin	daadaro aidan mishidan	ale'e		iha		táapaliko -xáda
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 06 belly 07	ayure	rharhaidoan kishidin	daadaro aidan mishidan			iha		
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly 08 belly button 01 belly button		rharhaidoan kishidin	daadaro aidan mishidan	ale'e		iha		
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 07 belly 08 belly button 01 belly button 02		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha		
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly 09 belly button 01 belly button		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e		iha		
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap		
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha		
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 04 belly button 04		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap		
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 6 belly 01 belly 02 belly 03 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 05		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap	jawai∫i	-xáda
beetle 02 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly 09 belly 001 belly 001 belly 005 belly 005 belly 006 belly 07 belly 08 belly 09 belly 09 belly 09 button 001 belly button 002 belly button 003 belly button 004 belly button 04 belly button 05 belly button 05 belly button 05		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap	jawai∫i	
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 6 belly 01 belly 02 belly 03 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 05		rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap	jawai∫i mudui∫i	-xáda
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 08 belly 08 belly 08 belly 08 belly 09 belly 09 button 01 belly button 03 belly button 04 belly button 04 belly button 05 belly button 05 belly button 06 bent 01 big 01		rharhaidoan kishidin dibeyo	daadaro aidan mishidan toba	ale'e	uragei	iha atunmarap	jawai∫i	-xáda -héepole
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 04 belly button 05 belly button 05 belly button 06 bent 01 big 01 big 01 big 01	amoyo	rharhaidoan kishidin	daadaro aidan mishidan toba	ale'e omocho	uragei	iha atunmarap	jawai∫i mudui∫i	-xáda -héepole
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 04 belly button 05 belly button 04 belly button 05 belly button 04 belly button 05 belly button 06 bent 01 big 01 big 02 big 03	amoyo	rharhaidoan kishidin dibeyo	daadaro aidan mishidan toba	ale'e omocho	uragei ari	iha atunmarap	jawai∫i mudui∫i	-xáda -héepole
beetle 02 beetle 03 beetle 03 beetle 04 belch 01 believe 1 believe 2 believe 3 believe 4 believe 6 belly 01 belly 02 belly 03 belly 04 belly 05 belly 06 belly 07 belly 08 belly button 01 belly button 02 belly button 03 belly button 04 belly button 04 belly button 04 belly button 05 belly button 05 belly button 06 bent 01 big 01 big 01 big 01	amoyo	rharhaidoan kishidin dibeyo	daadaro aidan mishidan toba	ale'e omocho	uragei	iha atunmarap	jawai∫i mudui∫i	-xáda -héepole

big 05 big 06 big 07 bird 01 bird 02 bird 03 bird 04 bird 05	wüchii	kodibio	kotu'uza	wuchii	dunuru	nopsad kuhivra	máanuii mí∫idu	maka-	
bird 06 bird 07 bite 01 bite 02 bite 03	ajoruta	rudun	arookan	ojottaa	gürü	kagah		képira -mhoa	bogiaet
biting gnat 01 biting gnat 02 biting gnat 03 biting gnat 04			ziiziba	ja'yumuleri	i	yu			gúnga
biting gnat 05 biting gnat 06 blood 01 blood 02 blood 03	aawa	thuna	iza	isha	hitaü	gimig	hulédiru íirai	dóota -iiranaa	
blood 04 blow 01 blow 02	ouruta	fudun	awaru kaawan	waawataa	ahuracha	kamayghaw			moinaly
blow 03 blow, (shoot blowgun) 01 boil 01		bokoan	pootan		fu	puh		-phia	
boil 02 boil 03 boil 04 boil 05			warakan	opoolojoo	áhuraha	kudis			
boil 06 boil 07 bone 01 bone 02 bow 01	eipiya	buna	niwa'uzi	jiipü	l\$abu\$	avit	jáhi∫i	-thia -áapi	calalu
bow 02 boy 01 boy 02	aapüra mayiichi	shimarhâbo	somara	(w)uraichi	gimara		t∫áawidau∫i t∫íit∫i	-dzawithiapo	0
boy 03 boy 04 boy 05 boy 06 boy 07		wadilikhan	tominnaru	jintür	wügüri			aatsiáda	
boy 08 brain 01 brain 02	akii	shîtoko	aukuo	ekiisholoin	lisasa	bakimni awayg			
brain 03 brain 04 brain 05					ichügü	givirik	késue∫i	-hiwideéta	
branch 1 branch 2 branch 3 branch 4 branch 5	atüna		waoda daakori	atüna	uburébu	ah			
branch 6 branch 7 branch 8						atawni	dubái∫i t∫íkiri	-ke	
break (VT) 1 break (VT) 2 break (VT) 3 break (VT) 4			ramitan	oso'lujaua	halagua	kukwa			
break (VT) 5 break (VT) 6 break 1 break 2		thoyadun	ramitan				túukueri	-tokométa	
break 3 break 4 break 5 break 7 break 8				ojuichajaa apüttaa	dagügua	dunih		dálheme	
break 9 breast 01 breast 02 breast 03	achüra		dunu	achira	aniguagu	dunih	kúta∫i	towháme	too
breast 04 breast 05 breathe 1 breathe 2		dio akubun	nizoan					-íini	
breathe 3 breathe 4 breathe 5 breathe 6 breathe 7				asanalaa aa'in	awaragua	kahekanaw		-hiraa -kaalewa	

bring 01	einka				anüga				
bring 02 bring 03		andunabo		antiraa					
bring 04					anaha barü				
bring 05			kaawa-kidar	1	bara				
bring 06						ewk			
bring 07							índeri		
bring 08 bring 09				asaajaa					
brother 01			azu	alü'üjaa					
brother 02				awala					
brother 03					ibiri				
brother 04						yey	1 · · · · · · ·		
brother 06 brother 07							éenahiri∫i	mhéreeri	
brother 08									guatiao
brother of fa-		ithi		ashi					
ther 01									
brother of fa- ther 2			paapai						
brother of fa-					nuguchihaña	a			
ther 4					Ü				
brother of fa-								-haniri	
ther 5 brother of fa-									
ther 7									
brother-in-law	arei	reneithi		aleshi					
01									
brother-in-law			yakon						
3 brother-in-law					ibamu				
5					ibaina				
brother-in-law					-uguñou				
6									
brother-in-law 7						ganig			
brother-in-law								-limáttairi	
8									
burn (VT) 3				asijaa					
burn (VT) 4					guda	1 . 1 . 1			
burn (VT) 5 burn 01	jata			jotaa		bukah			
burn 02	amoraa		kawaodan	Jouan			éemairi	mháita	
burst 1		wakudonoar							
burst 10								-ka	
burst 2 burst 3			shaazotan su'ukan						
burst 4			su ukan	oso'nojo					
burst 5				oso'toua					
burst 6					bougua				
burst 7					aducha				
burst 8 burst 9						matis patuk			
bury 1	ojorita			ojoitaa		parak			
bury 2		karatun							
bury 3			didan		1 /				
bury 4 bury 5					buná	mutuw			
bury 6						avuh			
bury 7							kéeniri		
bury 8								-dawa	
butterfly 1 butterfly 2		kambana laliwa							
butterfly 3		laliwa	tam tam						
butterfly 4				julirü					
butterfly 5					warigabaga	,			
butterfly 6 butterfly 7						kuru	áatutuma		
butterfly 8							aatutuma	makálo	
buttocks 1	auyi								
buttocks 2		înasa							
buttocks 3 buttocks 4		îtorha	dilane						
buttocks 5			dikapo dozon						
buttocks 6			•	einalu'u					
buttocks 7						gihpumna	144 4**		
buttocks 8							dúiwi∫i	:::	
buttocks 9 caiman 01	keiwi	kayakothi		kayúshi				-iiwáaphi	cayman
caiman 3		arharhâ		,					,
caiman 4		durhudurhu							
caiman 5			atoru						
caiman 6 caiman 7			kanawada		agare				
caiman 8					agare	punamna			
caiman 9						-	kanápanalu		
call 01	aapira								
call 02		chimole						-wana	
call 03 call 04		shimakun	dakotan						
call 05			dapadan						
call 06			-	eenakaa					

11. 0.7					,				
call 07 call 08					áwara	humak			
call 09						kanum			
call 10						Kanan	máideri		
canoe 01	anuwa	yorhadoakoa	a ka nawa	anu'a	ugunei	ginawya	húna∫i		canoa
capybara 01		3	kasho			5	kéesu	kéetto	
carry 01	einka	onakun	na'akan		anagua				
carry 10					-	hiyuh			
carry 11							waákueri		
carry 12							júwaderi		
carry 13							téeri		
carry 14								-dee	
carry 3			dowautan						
carry 5				alü'üjaa					
carry 6				o'otoo					
carry 8					abayaraha	. 1			
carry 9		11 1				tavah			
caterpillar 1		khalise							
caterpillar 2		komakati							
caterpillar 3			taruwiin			*4 .			
caterpillar 4		marakaro				itey		áakoro	
caterpillar 5		шагакаго	sishiba'i	Imaina				аакого	
centipede 03 centipede 1		bayabo	Sisiiiba i	kasipa					
centipede 1		kasekêro							
		Kasekero			íluba				
centipede 4 centipede 5					пира		awát∫a		
centipede 6							áakuru		
cheek 1	awakare						aakuru		
cheek 2	awanait	walaina							
cheek 2		·······································	kaozoo						
cheek 4			-110200	awalapa'a					
cheek 5				ра а	ubuyubu				
cheek 6					,	gihepka			
cheek 7						JF		-kakóda	
chest 08							kúta∫i	-kóda	
chest 1	eetti								
chest 2		uloashibo							
chest 3		loabana							
chest 4			dokoriba						
chest 5				aluuwain					
chest 6					aniguogu				
chest 7						aduk			
chew 01		khurhutan	kuzotan					-kholitta	
chew 3					chagú				
chew 4					-	guhbete			
chew 6					-	guhbete		-mhoa	
chew 6 chew 7					-	guhbete		-mhoa -ñhakóta	
chew 6	ariinaükü		kuruku	kalínashuku	-	guhbete			
chew 6 chew 7 chicken egg 01	ariinaükü		kuruku dani	kalínashuku		guhbete			
chew 6 chew 7 chicken egg 01 chief 1		shî		kalínashuku		guhbete			
chew 6 chew 7 chicken egg 01 chief 1 chief 10	ariinaükü $\operatorname{hur\'aure}(\operatorname{h})$	shî		kalínashuku		guhbete			
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11				kalínashuku	dus:	guhbete			mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12		shî afodo	dani	kalínashuku	ábuti	guhbete			mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3					ábuti	guhbete			mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4			dani	alaülashi	ábuti	guhbete			mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5			dani		ábuti				mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7			dani	alaülashi	ábuti	guhbete	wákalifi		mato
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8			dani	alaülashi	ábuti		wákalifi	-ñhakóta	
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7			dani	alaülashi			wákali∫i		
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01			dani	alaülashi	ábuti ñugucharu			-ñhakóta -aapidzáwali	i
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9			dani	alaülashi			wákali∫i ishidu	-ñhakóta	i
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02		afodo	dani	alaülashi				-ñhakóta -aapidzáwali	i
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 10		afodo	dani	alaülashi ekiipü'ü				-ñhakóta -aapidzáwali	i
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2		afodo ilontho korhelia ibili	dani	alaülashi ekiipü'ü				-ñhakóta -aapidzáwali	i
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 10 child 11 child 2 child 3		afodo ilontho korhelia	dani toshao koraidaonaa	alaülashi ekiipü'ü				-ñhakóta -aapidzáwali	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 12 child 3 child 3 child 4		afodo ilontho korhelia ibili	dani	alaülashi ekiipü'ü	ñugucharu			-ñhakóta -aapidzáwali	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 10 child 10 child 3 child 3 child 3 child 3 child 3 child 4 child 5		afodo ilontho korhelia ibili	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu irahü			-ñhakóta -aapidzáwali	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 5 child 5		afodo ilontho korhelia ibili	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu	wewkisne		-ñhakóta -aapidzáwali	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 5 child 5 child 6 child 7		afodo ilontho korhelia ibili	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu irahü			-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 10 child 10 child 3 child 4 child 5 child 5 child 5 child 6 child 7 child 8	huráure(h)	afodo ilontho korhelia ibili	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 4 child 5 child 6 child 7 child 8 child 7 child 8		afodo ilontho korhelia ibili usa	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 10 child 10 child 3 child 4 child 5 child 5 child 5 child 6 child 7 child 8	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa	alaülashi ekiipü'ü	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 15 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 17 child 8 child 9 child 9 child 19	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 7 child 7 child 8 child 9 child 1 child 2 child 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa	alaülashi ekiipü'ü tepichi	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 5 child 5 child 6 child 7 child 8 child 9 child 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü	ñugucharu irahü igiramaü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 10 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 1 child 9 child 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü tepichi	ñugucharu irahü	wewkisne		-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 7 child 8 child 9 child 17 child 8 child 9 child 1 child 17 child 18 child 5 child 6 child 7 child 8 child 9 chin 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü tepichi	ñugucharu irahü igiramaü	wewkisne	ishidu	-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 5 child 5 child 6 child 7 child 8 child 9 child 9 child 9 child 10 child 10 child 10 child 10 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 1 child 9 child 1 child 9 child 1 child 2 child 3 child 6 child 7 child 8 child 9 child 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü tepichi	ñugucharu irahü igiramaü	wewkisne		-aapidzáwali iittíto ienipétti	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 child 9 chin 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü tepichi	ñugucharu irahü igiramaü	wewkisne	ishidu	-ñhakóta -aapidzáwali iittíto	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 22 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 10 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chi	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani	alaülashi ekiipü'ü tepichi	ñugucharu irahü igiramaü	wewkisne	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 child 9 chin 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi	ñugucharu irahü igiramaü	wewkisne	ishidu	-aapidzáwali iittíto ienipétti	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 02 child 1 child 10 child 11 child 10 child 17 child 2 child 3 child 4 child 5 child 5 child 6 child 7 child 8 child 9 child 9 child 10 child 17 child 8 child 9 child 7 child 8 child 9 child 9 child 10 chil	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü igiramaü	wewkisne	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 child 9 chin 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü igiramaü	wewkisne	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 10 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 17 child 8 child 9 child 17 child 8 child 9 child 7 child 8 child 9 child 1 child 9 child 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü igiramaü	wewkisne	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 02 child 1 child 10 child 11 child 10 child 17 child 2 child 3 child 4 child 5 child 4 child 5 child 5 child 6 child 7 child 8 child 9 child 19 child 8 child 9 child 10 child 11 child 10 child 11 child 10 child 11 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 chin 2 chin 3 chin 4 chin 5 chin 6 chin 7 chin 8 clear 7 clear land 1 clear land 1 clear land 2 clear land 3	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü ígiramaü áribügü	wewkisne	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 10 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 child 9 chin 1 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü ígiramaü áribügü	wewkisne bakimni gikuveyni	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 4 chief 5 chief 7 chief 8 chief 9 chigger 01 child 10 child 11 child 10 child 17 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 10 child 11 child 2 child 3 child 10 child 11 child 2 child 10 child 11 child 2 child 10 child 11 child 2 child 3 child 10 child 11 child 2 child 10 child 2 child 3 child 4 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 10 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 child 10 chil	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü ígiramaü áribügü	wewkisne bakimni gikuveyni	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda -pharáka	i nigua
chew 6 chew 7 chicken egg 01 chief 1 chief 10 chief 11 chief 12 chief 3 chief 5 chief 5 chief 7 chief 8 chief 9 chigger 01 chigger 02 child 1 child 10 child 11 child 2 child 3 child 4 child 5 child 6 child 7 child 8 child 9 chin 1 chin 2 chin 3 child 9 chin 1 chin 2 chin 3 chin 4 chin 5 chin 6 chin 7 chin 8 clear 7 clear land 1 clear land 2 clear land 2 clear land 4 clear land 5 clear land 6	huráure(h)	afodo ilontho korhelia ibili usa	dani toshao koraidaonaa dani awa'u	alaülashi ekiipü'ü tepichi e'iyeinse	ñugucharu irahü ígiramaü áribügü áchuaha	wewkisne bakimni gikuveyni	ishidu	-āhakóta -aapidzáwali iittíto ienipétti -wéeda -pharáka	i nigua

-1 (VT) 4							rí:		
close (VT) 4 close 01	asürüta	tatadun	taratan	asürülaa	adoura		∫imiri		
cloth 1	ayawin								
cloth 2 cloth 3		bokorhoho		kuluulu					
cloth 4				naraara	anaguni				
cloth 5					gamisa				
cloth 6 cloth 7						giybet			cochio
cloth 8									yaguas
cloth 9								yamakátti	
cloud 1 cloud 2		orharho	isha						
cloud 3			isiid		dúrari				
cloud 4					kuloudu				
cloud 5 cloud 6						ukuhne	cánnai		
cloud 7	jürüma			siruma			sáanai		
cockroach 1	kaachera								
cockroach 2 cockroach 3		hababaro kakalaka							
cockroach 4		hokôko							
cockroach 5		îshibéro							
cockroach 6			basharao		c 1:			14	
cockroach 7 cockroach 8					fudi	masumsu	piriito	poléta	
cockroach 9						masamsa		aráwe	
coconut 01		kokoronoto	kokonoto	kóko	guguedi				coquillas
cold 01 cold 02	jamira	mimili		jemiai					
cold 03		1111111111	wadidi'o						
cold 04					dilí				
cold 05						kisepehe			
cold 06 cold 07							kasárinii		ymizui
cold 08							1000011111	hápe	
collared pec-		abuya							
cary 1 collared pec-		matúla							
cary 2		macara							
collared pec-			bakuru						
cary 3 collared pec-					gegéu				
cary 4					gegeu				
collared pec-						kavine			
cary 5									zaino
collared pec-									zaino scuna
								dzamolíto	
collared pec- cary 6 collared pec- cary 7		1.1.1.						dzamolíto	
collared pec- cary 6 collared pec- cary 7 comb 1		barhudoan	maodan					dzamolíto	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4		barhudoan	maodan	epéinajauá	fañei			dzamolíto	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5		barhudoan	maodan	epéinajauá	fañei amuriga	alassas.		dzamolíto	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6		barhudoan	maodan	epéinajauá		akuyva	ſiába	dzamolíto	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7					amuriga		∫iába	dzamolíto -pia	
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1	einta	barhudoan	maodan wa'atin	epéinajauá antaa	amuriga anate	akuyva ayta	∫iába		
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2	einta				amuriga				
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1	einta				amuriga anate		∫iába íinueri		
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01	einta yoota	andun			amuriga anate			-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02				antaa	amuriga anate ñübi			-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 03		andun		antaa	amuriga anate ñübi ayanuha árügüda			-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 04 converse 04		andun		antaa	amuriga anate ñübi ayanuha	ayta		-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 04 converse 05 converse 05		andun		antaa	amuriga anate ñübi ayanuha árügüda		íinueri	-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 04 converse 05 converse 06 converse 07 converse 07		andun		antaa	amuriga anate ñübi ayanuha árügüda	ayta		-pia	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 04 converse 05 converse 06 converse 07 converse 08		andun	wa'atin	antaa	amuriga anate ñübi ayanuha árügüda	ayta	íinueri	-pia -no	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 04 converse 05 converse 07 converse 07 converse 08 cook 01 cook 02		andun diâbon		antaa	amuriga anate nübi ayanuha árügüda yanu	ayta	íinueri	-pia -no	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04		andun diâbon	wa'atin	antaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri	-pia -no	
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 06 converse 07 converse 08 cok 01 cok 02 cok 03 cok 04 cok 05		andun diâbon	wa'atin	antaa	amuriga anate nübi ayanuha árügüda yanu	ayta	íinueri táanieri	-pia -no	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 03 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06		andun diâbon	wa'atin	antaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri	-pia -no kaakopéda	
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 07 converse 07 converse 08 cok 01 cok 02 cok 03 cok 04 cok 05 cok 06 cok 07 cok 08		andun diâbon	wa'atin	antaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri táanieri	-pia -no	
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01		andun diâbon	wa'atin	antaa yootoo a'lakajawaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri táanieri	-pia -no kaakopéda -dzána	scuna
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 02 converse 03 converse 05 converse 06 converse 07 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02		andun diâbon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri táanieri	-pia -no kaakopéda	scuna
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02 copula 03 copula 04		andun diâbon	wa'atin	antaa yootoo a'lakajawaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa	íinueri táanieri	-pia -no kaakopéda -dzána	scuna
collared pec- cary 6 collared pec- cary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 02 converse 03 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02 copula 03 copula 03 copula 04 copula 05		andun diâbon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri	-pia -no kaakopéda -dzána	scuna calalu zi
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cok 02 cok 03 cok 04 cok 05 cok 06 cok 07 cok 08 copula 01 copula 02 copula 03 copula 04 copula 04 copula 05 copula 06		andun diâbon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri	-pia -no kaakopéda -dzána	scuna
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 02 converse 03 converse 05 converse 06 converse 06 converse 07 converse 08 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02 copula 03 copula 04 copula 05 copula 06 copula 06 copula 07 copula 08		andun diâbon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri	-pia -no kaakopéda -dzána -éema	scuna calalu zi el
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 07 converse 08 cock 01 cok 02 cock 03 cok 04 cok 05 cock 06 cock 07 cock 08 copula 01 copula 02 copula 03 copula 04 copula 05 copula 06 copula 07 copula 07 copula 08 copula 07 copula 08 copula 09		andun diâbon bokon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri t∫áneri	-pia -no kaakopéda -dzána	scuna calalu zi el
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 05 converse 05 converse 06 converse 07 converse 08 cook 01 cook 09 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02 copula 03 copula 04 copula 05 copula 06 copula 07 copula 08 copula 07 copula 08 copula 08 copula 09 copula 08 copula 09 copula 08		andun diâbon	wa'atin	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri t∫áneri	-pia -no kaakopéda -dzána -éema	scuna calalu zi el
collared peccary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 04 converse 05 converse 06 converse 07 converse 08 cook 01 cok 02 cok 03 cok 04 cok 05 cok 06 cok 07 cok 08 copula 01 copula 02 copula 03 copula 04 copula 05 copula 06 copula 07 copula 07 copula 09 copulate 01 copulate 01 copulate 01 copulate 01		andun diâbon bokon	wa'atin warakīīpan tomĩan	antaa yootoo a'lakajawaa amaa	amuriga anate nübi ayanuha árügüda yanu	ayta kinetihwa marahpa sakah	íinueri táanieri t∫áneri	-pia -no kaakopéda -dzána -éema	scuna calalu zi el
collared cary 6 collared peccary 7 comb 1 comb 2 comb 4 comb 5 comb 6 comb 7 comb 8 come 1 come 2 come 3 come 4 converse 01 converse 02 converse 05 converse 06 converse 07 converse 08 cook 01 cook 02 cook 01 cook 02 cook 03 cook 04 cook 05 cook 06 cook 07 cook 08 copula 01 copula 02 copula 03 copula 06 copula 06 copula 07 copula 08 copula 09 copula 09 copulate 01 copulate 01 copulate 02		andun diâbon bokon	wa'atin warakīīpan tomĩan	antaa yootoo a'lakajawaa amaa	amuriga anate ñübi ayanuha árügüda yanu abougua	ayta kinetihwa marahpa sakah	íinueri táanieri t∫áneri	-pia -no kaakopéda -dzána -éema	scuna calalu zi el

copulate 06								-ti	
copulate 07								-dakíta -kawiiléta	
copulate 08 corn 01	mayikü	marishi	maziki	maikkü	awasi	gimayka		-kawineta	mayz
corn 02	may ma	1110110111	1110001111		COTT CALLS	giiidyild	káana	káana	IIIGJ L
cotton 01		yaho							
cotton 02			kinaridi						
cotton 03 cotton 04				maawüi	mouru	mawru			mapu
cotton 05									zeiba
cotton 06								ttáawaali	
cough 1	enkata								
cough 2 cough 3		thondon	oshowan						
cough 6			Oshowan				dákieri		
cough 7								-tékhia	
count 1		kishidan							
count 10 count 2			oitopop					-wa	
count 3			aitapan	ayaawajaa					
count 4				aküjaa					
count 5					abahüda				
count 6						ekkene			
count 7 count 8						pukuha	hútaderi		
count 9							Travacci i	niwéeta	
cousin 1				wáirrá					
cousin 2				ashi'uá					
cousin 3 cousin 4	apaya			apü'rrimas	5				
cousin 5				apu mmas	-			-iiténaa	
crab 01	wiiwicha								
crab 02					gaguchi			kaátsi	
crab 03								kalámaa	
crab 04 crab 05		koa			auco	kuwa		ttiido	
crab 06		KOd	barara		gusa	Kuwa			
crab 07			wauru		magüre				
crab 08				jórrolo	harouru				
crab 09 crab 10					heringe				taracola
crawl 1		rhoadun							taracoia
crawl 2		lebesen							
crawl 3			kozootĩan						
crawl 4 crawl 5				lemütaa					
crawl 6					awariha	huwiksa			
crawl 7							járderiu		
cricket 1		foti		ju'i					
cricket 2		kodokodo							
cricket 3 cricket 4		shikishiki	pi'isoro						
cricket 5			pr isoro		diru				
cricket 6						wayayka			
cricket 7						tanan			
						nopses-			
cricket 8						niye		píito	
cricket 9								dziiro	
crush 1		sapadun							
crush 10								-patóita pá	tshia
crush 11			1 111					tsirhia	
crush 2 crush 3			chadikan	apo'tolujau	2				
crush 6				apo torajad	···	kumuk			
crush 7						sibuh			
1 0						kiyhaw	1.171		
crush 8 crush 9							kabádanaa	bíkhia	
cry (animal) 1	ayaraa			a'yalajaa				DIKIIIa	
cry (animal) 2	,	shimakan		- y y					
cry (animal) 3			imodan						
cry (animal) 4					wagua	1.11			
cry (animal) 5 cry (animal) 6						kabiman	máidaderi		
cry (animal) 7								áapoa	
cry 1		uyin		óin					
cry 2	üira		zaadinan						
cry 3 cry 4			Laaulliäll	a'yalajaa	ayahua				
cry 5				,ujuu	-,	tih			
cry 6							íit∫eri	-íidza	
cut (ampu-			chootan						
tate) 1 cut (ampu-						ivuk			
tate) 2						ivun			
cut (ampu-								matáka	
tate) 3								, /	
cut (ampu- tate) 4								aakaapita	
cut (carcass) 1			shazodan						

cut (carcass) 2					adüragua				
cut (carcass) 3						masere			
cut (carcass) 4						hiwhbeta			
cut (carcass) 5								-matáka	
cut (carcass) 6								-aakaapita	
cut (fell) 1	achawata				áchuaha				
cut (fell) 2			baropan						
cut (fell) 3		ladun							
cut (fell) 5						ivuk			
cut (fell) 6							káraleriu		
cut (fell) 7								-óoka	
cut (pieces) 1			dazaapan						
cut (pieces) 2			sa'ukan		L:				
cut (pieces) 3					bigua	bukihbeta			
cut (pieces) 4 cut (pieces) 5						bukinbeta	kaaleri		
cut (pieces) 6							Kaaierr	-matáka	
cut (pieces) 7								-aakaapita	
cut (pieces) 8								-keéta	
cut 1		sokon						-RCC04	
cut 10		5011011						-matáka	
cut 11								-aakaapita	
cut 12				o'yotowaa				аанаарта	
cut 2			kurutan	- 3					
cut 3					adürüra				
cut 4						bukih			
cut 5						hiwh			
cut 6						ivuk			
cut 7						tigah			
cut 8							wít∫ueri		
cut 9								-tákhaa	
daughter 01	achon	oto		achon					
daughter 02			dani						
			zuna						
daughter 03					hianru				rahen
					irahü				
daughter 04						gikamkayh			
						tino			
daughter 05							kírakua	,	
daughter 06								-iito	
daughter-in-law	aürü			a'üi					
01									
daughter-in-law		tio	dinizo		ídiun				
02		taboatho							
daughter-in-law									
		taboatno							
03		cascaciio				aihinna			
03 daughter-in-law		tuboutilo				gihinyo			
03 daughter-in-law 04		aboutile				gihinyo	nirufi		
03 daughter-in-law 04 daughter-in-law						gihinyo	niru∫i		
03 daughter-in-law 04 daughter-in-law 05		cascaciio				gihinyo	niru∫i	-iríino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law						gihinyo	niru∫i	-iriino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06	urikeu					gihinyo	niru∫i	-iríino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1	urikeu		wakanakana	anin		gihinyo	niru∫i	-iríino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06	urikeu		wakanakana			gihinyo	niru∫i	-iríino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2	urikeu		wakanakana	anin jayua	lidawamari	gihinyo	niru∫i	-iríino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5	urikeu	asaalo	wakanakana		lidawamari	hewkepka	niru∫i	-iriino	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6	urikeu		wakanakana		lidawamari		niru∫i		
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7	urikeu		wakanakana		lidawamari	hewkepka	niru∫i	-haaléta	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8	urikeu				lidawamari	hewkepka	niru∫i		
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01	urikeu	morhididn		jayua		hewkepka	niru∫i	-haaléta pidzóome	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02	urikeu	morhididn			lidawamari eyeda	hewkepka	niru∫i	-haaléta	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1	urikeu		mariidan	jayua		hewkepka	niruſi	-haaléta pidzóome	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2	urikeu	morhididn		jayua emeejaa		hewkepka	niru∫i	-haaléta pidzóome	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3	urikeu	morhididn tola	mariidan kaana'o	jayua	eyeda	hewkepka	niru∫i	-haaléta pidzóome	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2	urikeu	morhididn	mariidan	jayua emeejaa		hewkepka	niru∫i néeri	-haaléta pidzóome	
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01	urikeu	morhididn tola	mariidan kaana'o	jayua emeejaa	eyeda	hewkepka		-haaléta pidzóome -mañéeta	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02	urikeu	morhididn tola	mariidan kaana'o	jayua emeejaa	eyeda usari	hewkepka	néeri	-haaléta pidzóome -mañéeta	mabuya
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01		morhididn tola kakashiro	mariidan kaana'o	jayua emeejaa kéinolú	eyeda usari	hewkepka	néeri	-haaléta pidzóome -mañéeta	mabuya
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2		morhididn tola kakashiro	mariidan kaana'o	jayua emeejaa kéinolú	eyeda usari	hewkepka hiyavaweke	néeri	-haaléta pidzóome -mañéeta	mabuya
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 1 deep 2 deep 3 deer 01 demon 1 demon 1 demon 2 die 2 die 3	yaaruwa	morhididn tola kakashiro yawahu	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa	eyeda usari	hewkepka hiyavaweke	néeri	-haaléta pidzóome -mañéeta	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1	yaaruwa	morhididn tola kakashiro yawahu ahodon	mariidan kaana'o	jayua emeejaa kéinolú yolujaa	eyeda usari mafia	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2	yaaruwa outa	morhididn tola kakashiro yawahu	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa aponoo	eyeda usari	hewkepka hiyavaweke	néeri	-haaléta pidzóome -mañéeta	mabuya
03 daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 1 deep 2 deep 3 deer 01 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1	yaaruwa outa	morhididn tola kakashiro yawahu ahodon	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa	eyeda usari mafia achiga	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2	yaaruwa outa	morhididn tola kakashiro yawahu ahodon	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa	eyeda usari mafia	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1	yaaruwa outa aponaa	morhididn tola kakashiro yawahu ahodon	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua	eyeda usari mafia achiga wíe-	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01	yaaruwa outa aponaa apüta	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa	eyeda usari mafia achiga	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1	yaaruwa outa aponaa	morhididn tola kakashiro yawahu ahodon	mariidan kaana'o	jayua emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 01	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe-	hewkepka hiyavaweke giwavitira miyop	néeri	-haaléta pidzóome -mañéeta néeri	mabuya
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 01 dog 02	yaaruwa outa aponaa apüta	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o koshara	jayua emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 1 deep 2 deep 1 deep 2 deep 3 deer 01 der 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 0 1 dog 01 dog 02 dog 03	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 do 0 1 dog 02 dog 03 dog 04	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 1 demon 1 demon 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 02 dog 03 dog 04 dog 05	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri -hika	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 1 deep 2 deep 1 deep 2 deep 3 deer 01 der 02 demon 01 demon 1 demon 2 die 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 01 dog 02 dog 03 dog 04 dog 05 dog 06	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin anin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura ounli	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 01 dog 02 dog 03 dog 04 dog 05 dog 06 domesticated	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri -hika	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 1 demon 1 demon 1 diff 2 diff 2 diff 3 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 02 dog 03 dog 04 dog 05 dog 06 domesticated animal 1	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin anin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura ounli	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i auli	-haaléta pidzóome -mañéeta néeri -hika	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 demon 1 demon 2 die 2 die 3 dig 1 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 02 dog 03 dog 04 dog 05 dog 06 domesticated animal 1 domesticated	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin anin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura ounli	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i	-haaléta pidzóome -mañéeta néeri -hika	
daughter-in-law 04 daughter-in-law 05 daughter-in-law 06 dawn 1 dawn 2 dawn 3 dawn 4 dawn 5 dawn 6 dawn 7 dawn 8 deceive 01 deceive 02 deep 1 deep 2 deep 3 deer 01 deer 02 demon 01 demon 1 demon 1 demon 1 demon 1 demon 1 diff 2 diff 2 diff 3 dig 2 dirty 1 dirty 2 disappear 1 discard 01 do 1 dog 02 dog 03 dog 04 dog 05 dog 06 domesticated animal 1	yaaruwa outa aponaa apüta aiña	morhididn tola kakashiro yawahu ahodon thikin anin	mariidan kaana'o koshara	emeejaa kéinolú yolujaa ouktaa aponoo yerüttaa amoutaua ojutaa aainjaa	eyeda usari mafia achiga wíe- átura ounli	hewkepka hiyavaweke giwavitira miyop atik	néeri wawa∫i auli	-haaléta pidzóome -mañéeta néeri -hika	aon

downriver 01			apoa'a					pókoalhe	
drink 1 drink 2				asaa	ata		íireri	-íira	
drip 01		sorhokodoai	n	shottaa			iireri	-IIIa	
dull 01		mamana	mamuna'o	Shottaa			kéemai		
dust 01						atabdabni		dáaphe	
ear 01	achee	dike		ache'e	arigei				
earring 01					arigeila\$+\$				guarique
earring 02				che'esaa					
earring 03	acheepüran		121 4						
earring 04 earring 05		dikehe	iši-tain						
earring 06		dikelle						heenitáda	
earth 01	mmo			mma	múa			noomoada	
eat 1	aka			ekaa	eiga	ax			
egg 1							éewi∫i	-éewhe	
egg 2	aükü			ashuku				4.3	
elbow 01	eetoru		patori			1.	natúera∫i	-nawáthere	
emit noise 01 enemy 01	aünü			a'ünüü	ágani	kiman		khéma	akani
enemy 02	adiid		$-t^hari^?ba$	a unuu					amin
enemy 03			-t ali ba			gitimni			
enemy 04						grammi		hipónda	
enter 01	ekerota	kodonoan		ekerolaa					
existential	ee			eewaa	ñeini				ei
verb 1									
exit 01	oota			1	1 /			-mótto	
expand 01		koshi	awunii	achüütá o'u	dará		4.4:C:	-thi	izi
eye 1 face 01	ou apanaa	KOSIII	awun	o'upünaa	agu		túi∫i	-0111	IZI
-300 01	Spanac		baara	- apanaa					
face 02		shibo			igibu				
fall 01	eekota		waotan	ojuttaa	éiguada				
far 01	watta	taha		wattaa					
fast 01		kahulu		akua					
fat 1 fat 2	aüti		1.1111						
fat 3			kiwinii		dibune	dibe			
father 1	ei	ithi		ashi	dibune	dibe			ahia
father 2					uguchi				nucu-chili
father-in-law	ashimiya			ashimia	-				
01									
fear 1		1		momoluu					
fear 2 feces 01	achaa	hamaro		acha'a					
feces 02	aciida			aciia a		gasis	íija∫i		
feed 01				ekiraa	eigagüda	gasis	njaj i		
feel 1				CHILDO	ergagada	awahni			
ferment 01				áshüüja	achouha				
fight 01					ıagieru	ker			
fight 02			mizaapan						
fight 03		0.1.11							huctu
find 01		ôthikin ibira			liráü	uti			
finger 01	aapa	IDIra		ejepira	úhobu				
fingernail 01			bazi	apato'u	unobu				
finish.VI 01	üüta		aotan						
finish.VI 02						madika		-wadzáka	
finish.VT 01		îbidin	ipaian					,	
fire 02	shikü	ikihi	tikazi	siki		tiket	t∫it∫ái	ttidzee	
firewood 01	shikü 	ikhikhodo		siki 		tiketka gitin	ıkplit∫ába	ttidzéena	
fish 01 fish 02	üyü	hime	okotan	jima		gima ikuna			
fish hook 1		bodehe	J110 0011		uburei				
fish hook 2	kuir(e)			kulira			kulupa		
fish poison 01			oko			ikun	kúuna	kóona	
flame 01	jata			jotaa		.,		háaka	
flesh 01	iruku	shiroko		e'iruku	ügürügü	arih			
flow 01 flower 1	asii	mala		pala'náuá asii					
fly 01	3011			awataa	ahamaha	amara		-áara	
fly 02	mooka	morodon							
food 01	aküürü	khotaha		eküülü	eigini				
foot 01	aawi	koti		oo'ui	ugudi			,	kotara
foot 02			kidiba				íiba∫i	-hiipa	
forehead 01	eiporu	shibaroko	lron = 1	e'ipo'u					
forest 01	kununuriya	konoko êbera	konoko						
friend 01		madianthi			umadaü				
frog 01	okoro	akhorâ							
frog 02					húa				tua
fruit 1	achon	ada iwi	aka	achon					
fruit 2					furuda				
garden 1					ichari	adam		déans	chali
genipa 01 germinate 01		borhodones	npa'ashizodii	nan		adamna		dáana	
giant ar-		POLITOGOLIOS	upa asinzudli	10411		tat	t∫ée	adzána	
madillo 01							bat∫áida		
girl 01	jümaayi			jimo'olu			-		
give 1	aapa			aapaa					
give birth 01	amüra	hemeyo		jemeyuluu	emeiliha				
8									

go 01	auna	ôsun	4.1	o'unaa				-áa(wa)	
go down 01 go up	ootaa	thokodon mudun	tokan	o'otowaa	rari amudeira			-ooróko	
godfather 01	oupa	maaan		ootowaa	ebenenei				
good 01	anaa			anaa					
gourd 01	_	kodo	moto	_					
gourd 02	arit			ita	rida				1.11
gourd 03 grandchild 01	arin			hapúi alüin					hibuera
grandfather 01	atüyü	dokothi	dokozu	atuushi	áruguti				aroko
grandmother	auwi	kuthu	uuzo	oushu	agütü				
01					_				
grandson 01		lukunthi		alüin					
grandson 02 grass 01	arama	karhô	takaan					-dákeeri	
green 01	wüita	Karno		wüittaa	wurigi-				
grub 01	jokoma	otokoma		jokoma	warigi				
hair 01	awareeya	barha		walashi					
hammock 01	jamaa	hamaka	zamaka	jama'a			áamaka		amaca
hammock 02	aura	koraha	1 2	o'ula	ügüraü			1-4:	
hand 01 hang 01	aapü akachera	khabo	ka'u kazadan	ajapü akacheraa	úhobu			-káapi	
hard 01	anacircia	tata	dadara	akaciiciaa	dere-			táara	
he 01	nü-			nia					
he 02		lu			li-		lijá	lhía	li
head 1	akii	shî		ekii	ichügü		wíta∫i		
hear 01	aapa		abatan	aapajaa			, .	1.	
hear 02 heart 01	jiichü			aa'in	oniai		éemeri	-himeeta	nanichi
neart 01	ein			aa III	anigi				пашсш
heart 02		washina					wówa∫i		
heat 01					isü		-		zechon
heavy 01	jawata			jawataa					
heavy 02		kudu			hürü-				
help 01 here 01	apüitaa	aburatun yara	dii'a	jaa-já	ya	ay		áa	
nere or		yara	un a	jaa ja	ya	ay		yaahã	
hide 01	anuuraa			anujulawaa					
hide 02	anuuraa			anujulaa					
high 01		diako					aakai		
hill 01 hit 01	achaata	ayumun sabadun	zo'itan	namüna ashe'etaa	wübü afara				huibo
hoe 01	aciiaata	sabadun	zo itan	asne etaa	hu				koa
hoe 02			$samp^h a$			mpuri			
hoe 03			•			•		poróle	
hoe 04		kasarona							
hold 01	ataüra		dokobatan	ata'ülaa	árügüda				
honey 02 honey 1	wapa	maba	maaba	mapa	maba	anunu		-doni	
horn 01	wapa	koa	OZOO	o'uwa	шара	atuw		-tsówa	
horsefly 01					mabarawa		mápata		
hot pepper 01		shi	didada	jashi'	ati	atit	-	áatti	aji
house 01		bahu	kabaun	epia	uba			-pana	boa
how? 01	ama			jamaa			hika?a	kóame	
howler mon- key 01				alá?ala	arawada				
hummin?bird			piimuda					píimi	
01			piiiiaaa					P	
hummin?bird				chünü'ü	yürüdü				
02									
hurt 01	eichi	kari	kaziwan	eechin	agarida			-kadzaanáat	
husband 01	eicni	reithi		eecnin	eyeritei		íiniri	-íiniri	eyeri
husband 02 husband 03	eimüchi			a'wayuuse			1111111	-1111111	
I 01	ta-	da-		taya					tacha
I 02				-		nah	nujá	nhóa	
I 03			õgaru ~		nuguya				
I 04			Õ-		nu-	nu-	nu-	nu-	ni-
I 05 if 01			ana		au anhein				
imitate 01			ana		abadühada			wadzéeta	
in 01	ou	rako	di'ii	o'u	idan		ríku	-liko	hiqui
infant 01	jouchei	korheli-		jo'uu	irahüraü				•
Inga 1					wariafa				
Inga 2								hawádza	
Inga 3								iitsi-páateni	
Inga 4 Inga 5								kawiápali konópa	
Inga 6								ooni-pateni	
Inga 7								paate	
Inga 8								potto-xapi	
Inga 9								wiritéekhe	
intestines 01 intestines 02	ashaa		okori		isasaü		íijakua∫i		
island 01			ORUII		ubouhu		njakuaji wówai∫i		
jaguar 01							t∫áawi	dzáawi	
jaguar 02	kareira	${\it rhoathe}$		kalai'rra					
jaw 01			awa'u	awalainse	12 - 21 - 1				
jewel 01 jewel 02			k ^h aiwad-ĩĩ-a	h. 1.h::	iñarihabu				yari
Jewei UZ			K aiwaq-11-2	ър а-к mai					

jump 01	awata		zaka'utan	awataa		padakwa		-kádaa	
kick 01			dakazatan	ashe'etaa	dügüti		4 C41 - C:		
kidney 01 kill 01	achüü			achü'ü			t∫ále∫i íinueri	-íinoa	
kill 02	outa ein		zowian	o'utaa			muerr	-IIIIOa	
				aa'in					
kin?fisher 01			sara'oo		sada		t∫alí́ri	dzáaliro	
knee 01		korho	kodoro					-hóorhi	
knife 01	meeya		marii	rüi				maliye	manaya
know 01	ataa	eithin	aitapan	atüjaa				•	-
know 02							jaléenaa	-áanhee	
lake 01			karishii					kalitta	
lake 02	jawaru								haguai
land 01					giúa	gikasguwa			
laugh 01	,			asirajaa	éheraha			6	
laugh 02	joika	shikin				iki		-ikaa	
lay down 01 lazy 01	shokura	SHIKIH		shukulaa		IKI			
lazy 02	SHOKULA			Siiukulaa			íinui	íino	
leaf 01	apana	bana		apana	ubanaü	avan	bánabai	panaphe	
left 01	apee	bana		epe'e	abanaa	avan	banabar	panapne	
leg 01							káwaſi	-kawa	
let?s go 01				joo'uya		uyay			
liana 01		hikorhi		jiiku					
lick 01				eerra'jauá	ehelucha				
lick 02		bêlin					1 (21 . 62	-péro	
live 01	1			14			káwika∫i	káawhi	
live 02	katouwa			kataa o'u					
liver 1	apana	bana	kubaa	apana	ubanaü	giban		-xópana	
long 01	арапа	wadi	Kubaa	арапа	abanaa	giban	mat∫éenii	жорана	
look for 01		wâdun	dorotan		ariha		macjoom		
louse 01	eekü	uye			íein				
love 01		anshin			Ísiein		níinaſi		
lung 01	ososo	thorha		ososo	íhuaraü				
macaw 01			kazaru		gararawa	karru	éeta	áadaro	
macaw 02	wakamaaya			waama'ya					
mahogany 01	u				goubana				cahoba
make 01	aiña	anin		aainjaa					
make 02		marhitin			. 1"		méderi	1 1 . (
make 03 make wet 01				chü'laa	adüga düdü			-dzeekáta	
man 01	eichi	wadili		Ciru iaa	dudu				
manioc 01	üi	waciii		ai			aaliri		
manioc beer					ugui		kuliáa		
01					Ü				
manioc beer									chicha
02									
manioc bread							béeri	peéthe	
01									
manioc bread					ereba	awebru			
02 manioc bread			badhi						
03			badiii						
manioc bread									maru
04									
manioc juice					ienli				hyen
01									
manioc, bitter			kanuzu		gain	gikengi	keeniru	káini	
01									
manioc, sweet									
01 many 01					yuga				yuka
many 01			nau	ma'i	yuga				yuka
maternal			pau	ma'i			kúiriſi	-khiri	уика
maternal uncle 01			pau	ma'i	iáwüritei		kúiri∫i	-khiri	yuka
	iruku	shiroko	pau	ma'i e'iruku				-khiri	yuka
uncle 01 meat 01 medicine 01	iruku		pau			avey	díbe	-khiri tápee	yuka
uncle 01 meat 01 medicine 01 millipede 01		hiwara	pau	e'iruku epi		avey			yuka
uncle 01 meat 01 medicine 01 millipede 01 monkey 01	wichiche	hiwara fodi		e'iruku epi juchi'	iáwüritei		dí́be awát∫a	tápee	
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01	wichiche keichi	hiwara	kauzu	e'iruku epi juchi' kashi	iáwüritei hati	avey kayg	díbe		yuka
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01	wichiche keichi müi	hiwara fodi		e'iruku epi juchi' kashi mei	iáwüritei		dí́be awát∫a	tápee	
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 01	wichiche keichi	hiwara fodi	kauzu	e'iruku epi juchi' kashi	iáwüritei hati marín		dí́be awát∫a	tápee	kati
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 01 mother 02	wichiche keichi müi een	hiwara fodi	kauzu	e'iruku epi juchi' kashi mei ei	iáwüritei hati marín uguchuru		díbe awát∫a kéeri	tápee kéeri	
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 01	wichiche keichi müi	hiwara fodi	kauzu	e'iruku epi juchi' kashi mei	iáwüritei hati marín		dí́be awát∫a	tápee	kati
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 01 mother 02 mother-in-law	wichiche keichi müi een	hiwara fodi	kauzu	e'iruku epi juchi' kashi mei ei	iáwüritei hati marín uguchuru		díbe awát∫a kéeri	tápee kéeri	kati
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 01 mother-in-law 02	wichiche keichi müi een	hiwara fodi	kauzu miso	e'iruku epi juchi' kashi mei ei a'ülü	iáwüritei hati marín uguchuru		díbe awát∫a kéeri	tápee kéeri	kati
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother 02 mother-in-law 01 mother-in-law 02 mountain 01	wichiche keichi müi een aürü	hiwara fodi	kauzu miso	e'iruku epi juchi' kashi mei ei a'ülü	iáwüritei hati marín uguchuru		díbe awát∫a kéeri	tápee kéeri	kati
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 mosquito 01 mother 01 mother 02 mother-in-law 01 mother-in-law 02 mountain 01 mountain 01	wichiche keichi müi een	hiwara fodi kathi	kauzu miso	e'iruku epi juchi' kashi mei ei a'ülü	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 01 mother-in-law 02 mountain 01	wichiche keichi müi een aürü	hiwara fodi kathi	kauzu miso	e'iruku epi juchi' kashi mei ei a'ülü emeshi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 mosquito 01 mother 01 mother 02 mother-in-law 02 mountain 01 mountain 02 mountain 03	wichiche keichi müi een aürü	hiwara fodi kathi	kauzu miso imauzo	e'iruku epi juchi' kashi mei ei a'ülü emeshi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 mosquito 01 mother 01 mother 02 mother-in-law 01 mother-in-law 02 mountain 01 mountain 01	wichiche keichi müi een aürü	hiwara fodi kathi	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 01 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04	wichiche keichi müi een aürü	hiwara fodi kathi	kauzu miso imauzo	e'iruku epi juchi' kashi mei ei a'ülü emeshi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri néeru∫i	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 monon 01 mosquito 01 mother 02 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05	wichiche keichi müi een aürü uuchi	hiwara fodi kathi	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 01 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05 mouth 1	wichiche keichi müi een aürü uuchi	hiwara fodi kathi	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri néeru∫i	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 monon 01 mosquito 01 mother 02 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05	wichiche keichi müi een aürü uuchi	hiwara fodi kathi	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi	iáwüritei hati marín uguchuru ágürü	kayg	díbe awát∫a kéeri néeru∫i	tápee kéeri	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 02 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05 mouth 1 much 01	wichiche keichi müi een aŭrü uuchi	hiwara fodi kathi abo	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi	iáwüritei hati marín uguchuru ágürü w'ub'u	kayg	díbe awát∫a kéeri néeru∫i	tápee kéeri -ñhero -nóoro	kati nucu-churon
uncle 01 meat 01 medicine 01 millipede 01 monkey 01 moon 01 mosquito 01 mother 02 mother-in-law 02 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05 mouth 1 much 01 name 01 neck 01 nephew 01	wichiche keichi müi een aŭrü uuchi	hiwara fodi kathi abo	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi aanükü ma'i anülia	iáwüritei hati marín uguchuru ágürü w'ub'u	kayg	díbe awát∫a kéeri néeru∫i	tápee kéeri -ñhero	kati nucu-churon
uncle 01 meat 01 meat 01 melicine 01 millipede 01 monkey 01 mos quito 01 mother 01 mother 02 mother-in-law 02 mountain 01 mountain 02 mountain 03 mountain 04 mountain 05 mouth 1 much 01 name 01 neck 01	wichiche keichi müi een aŭrü uuchi	hiwara fodi kathi abo	kauzu miso imauzo $\mathbf{m}^?\mathbf{d}\mathbf{i}\mathbf{k}^\mathbf{h}\mathbf{i}\mathbf{u}^.$	e'iruku epi juchi' kashi mei ei a'ülü emeshi uuchi aanükü ma'i anülia	iáwüritei hati marín uguchuru ágürü w'ub'u	kayg	díbe awát∫a kéeri néeru∫i duuii	tápee kéeri -ñhero -nóoro	kati nucu-churon

new 01		emelia					wáalii	wali-	
night 01		emena			ariebu		waaiii	déepi	
non-indigenous					baranagüre				
person 01 nose 01	.:.1.:	shiri		e'ichi	f_+_				
ocean 01	eichi paraa	barha	p^h aran	palaa	igiri barana	paraw			balana
ocean 02	paraa	Darna	p aran	paraa	Darana	paraw	manúa		Dalalla
ocean 03								kaida	
one 01 open 01	mana	aba thorhodon	bauda'apa dadata		aban	pahá	áabai	a(a)pa-	
open 02		thornodon	dadata		adarara				
order 01	aruwataa			aluwatawaa					
other 01 outside 01	mane anoomi	aba	ba'oran	wane'eya anooipa'a	le aban		áabi	a(a)pa-	
paca 01	anoomi		oran	апоогра а		uwan			
paddle 01					fágayu				pagaya
paddle 02 paint 01	nahara			acha iarraa			ténieriu	-dénaa	
paint 01 palm 01	ashara			ashajawaa				ponáma	
papaya 01		papâya	ma'apai		ubabai	pavay	mapája	•	papaya
parasitic worm 01					héweraü				
parasitic worm			iinii				éeni∫i		
02							-		
parasitic worm 03							úumai		
parrot 01			waro					wáaro	
pass 01	arata			alataa					
paternal aunt	eira			ei					
01 paternal aunt							kúu	-koiro	
02									
path 01	wopu	waboroko		wopu					
path 02 peck 01		tokon	ponaa	apüna ocho'tó					
peel 01		sodon		oshojoo					
penis 01	aure	wera		érrá	éun				
penis 02 penis 03		firo wishi	chiy		fitaru		t∫í́pit∫i		
pineapple 01		nana	naan				náanana		
pineapple 01					yéyewa				yayagua
pineapple 02 pineapple 03	piiña							maawiro	
pineapple 03 pineapple 04		nana						maawiro	
piranha 01		oma						ómai	
pitch 01	2000	uba	min		abaii			máini	
pitch 01 placenta 01 placenta 02	amuyoo aura	uba	min wubo	o'ula	abaü			maini	
placenta 01 placenta 02 placenta 03	aura	uba			abaü		jebá∫i	máini -yáapa	
placenta 01 placenta 02 placenta 03 plant 01				apünajaa		bara	jáabaneri	-yáapa	banana
placenta 01 placenta 02 placenta 03	aura	uba pratna			abaü baruru	bara			banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02	aura apünaa	pratna		apünajaa püla'ana	baruru áhurera	bara arehwa	jáabaneri	-yáapa	banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03	aura apünaa amiyawa			apünajaa püla'ana emi'ijaa	baruru		jáabaneri	-yáapa	banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02	aura apünaa	pratna		apünajaa püla'ana	baruru áhurera		jáabaneri	-yáapa	banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 port 01	aura apünaa amiyawa	pratna biran	wubo sawadan	apünajaa püla'ana emi'ijaa	baruru áhurera	arehwa	jáabaneri	-yáapa	banana
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01	aura apünaa amiyawa	pratna	wubo sawadan	apünajaa püla'ana emi'ijaa	baruru áhurera	arehwa tawan uyakri	jáabaneri palátuna	-yáapa palána	banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 port 01	aura apünaa amiyawa	pratna biran	wubo sawadan	apünajaa püla'ana emi'ijaa	baruru áhurera	arehwa tawan	jáabaneri	-yáapa palána	banana
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 01 pot 02 powder 01 push 01	aura apünaa amiyawa	pratna biran kadikedoad	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa	baruru áhurera	arehwa tawan uyakri	jáabaneri palátuna karáhi	-yáapa palána	banana
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01	aura apünaa amiyawa	pratna biran kadikedoad	wubo sawadan a dowada	apünajaa püla'ana emi'ijaa	baruru áhurera adibiriha ádaha	arehwa tawan uyakri kasru	jáabaneri palátuna karáhi	-yáapa palána	
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 01 pot 02 powder 01 push 01	aura apünaa amiyawa	pratna biran kadikedoad	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa	baruru áhurera adibiriha	arehwa tawan uyakri kasru	jáabaneri palátuna karáhi	-yáapa palána	banana balza
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01	aura apünaa amiyawa	pratna biran kadikedoad	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa	baruru áhurera adibiriha ádaha	tawan uyakri kasru takah umuh wanag-	jáabaneri palátuna karáhi	-yáapa palána	
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02	aura apiinaa amiyawa iima	pratna biran kadikedoad	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa	baruru áhurera adibiriha ádaha burari	tawan uyakri kasru takah	jáabaneri palátuna karáhi	-yáapa palána	
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 01 raft 02	aura apünaa amiyawa	pratna biran kadikedoad	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa	baruru áhurera adibiriha ádaha	tawan uyakri kasru takah umuh wanag-	jáabaneri palátuna karáhi pukúpukui	-yáapa palána óñai	
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 01	aura apiinaa amiyawa iima	pratna biran kadikedoad bokorhoton	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa	baruru áhurera adibiriha ádaha burari áhuya	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi	-yáapa palána	
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 raft 01 raft 02 rain 01 rat 01 rat 01 rat 01 rat 01 rat 02	aura apiinaa amiyawa iima	pratna biran kadikedoad bokorhoton	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa	baruru áhurera adibiriha ádaha burari áhuya huya	tawan uyakri kasru takah umuh wanag-	jáabaneri palátuna karáhi pukúpukui	-yáapa palána óñai	
placenta 01 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 01	aura apiinaa amiyawa iima	pratna biran kadikedoad bokorhoton	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa	baruru áhurera adibiriha ádaha burari áhuya	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui	-yáapa palána óñai	
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 port 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01	aura apünaa amiyawa iima eita uuya	pratna biran kadikedoad bokorhoton	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa juya	baruru áhurera adibiriha ádaha burari áhuya huya	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri	-yáapa palána óñai híiri iñaa	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 put 01 raft 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01	aura apiinaa amiyawa iima eita uuya	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa juya isira iyaa	baruru áhurera adibiriha ádaha burari áhuya huya	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui	-yáapa palána óñai híiri	
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 red 01 reply 01	aura apünaa amiyawa iima eita uuya	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri	-yáapa palána óñai híiri iñaa	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 put 01 raft 01 raft 02 rain 01 rat 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 rety 01 rest 01 return 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 reply 01 rest 01 return 01 return 02	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apünajaa püla'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 put 01 raft 01 raft 02 rain 01 rat 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 rety 01 rest 01 return 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 red 01 return 01 return 02 rib 01 right 01 river otter 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota	pratna biran kadikedoad bokorhoton korhihi marhaka	wubo sawadan a dowada po'oka'o	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eitawaa eitae'eraa lotaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 return 01 return 01 return 02 rib 01 right 01 river otter 01 roast 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota eiya	pratna biran kadikedoad bokorhoton korhihi marhaka iya	wubo sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eite'eraa lotaa asijaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 red 01 red 01 return 01 return 02 rib 01 right 01 river otter 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota	pratna biran kadikedoad bokorhoton korhihi marhaka iya	wubo sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eitawaa eitae'eraa lotaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 02 powder 01 push 01 raft 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 return 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüthera apare(n) rota	pratna biran kadikedoad bokorhoton korhihi marhaka iya	sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eite'eraa lotaa asijaa ourala	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki kuruku	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai -díeta -peréma	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 reply 01 rest 01 return 01 return 01 return 02 rib 01 right 01 right 01 right 01 right 01 return 01 return 01 return 01 return 01 return 01 roast 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota eiya aurula aututa	pratna biran kadikedoad bokorhoton korhihi marhaka iya	wubo sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eitawaa lotaa asijaa ourala awatawaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen- emeragua	tawan uyakri kasru takah umuh wanag- bohaki kuruku	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 02 powder 01 push 01 raft 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 return 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota eiya aurula aututa	pratna biran kadikedoad bokorhoton korhihi marhaka iya	sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eitawaa lotaa asijaa ourala awatawaa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen-	tawan uyakri kasru takah umuh wanag- bohaki kuruku	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai -díeta -peréma	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 point 01 pot 01 pot 02 powder 01 push 01 put 01 raft 01 raft 02 rain 01 rat 02 rattle 01 red 01 red 01 red 01 red 01 return 01 return 01 return 01 return 01 right 01 right 01 root 01 rand 02 sandfly 01 say 01 say 02	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota eiya aurula aututa jasai	pratna biran kadikedoad bokorhoton korhihi marhaka iya	sawadan a dowada po'oka'o oaumorokodan	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eite'eraa lotaa asijaa ourala awatawaa jasai maa	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira ien- emeragua	tawan uyakri kasru takah umuh wanag- bohaki kuruku	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai -díeta -peréma	balza
placenta 01 placenta 02 placenta 02 placenta 03 plant 01 plantain 01 play 02 play 03 Pleiades 01 port 01 pot 02 powder 01 push 01 raft 01 raft 01 raft 02 rain 01 rat 02 rattle 01 rattle 02 raw 01 red 01 return 01 roast 01 roast 01 roast 01 rand 01 sand 02 sandfly 01 say 01	aura apünaa amiyawa iima eita uuya kiira asokuta aütaa aüchera apare(n) rota eiya aurula aututa jasai	pratna biran kadikedoad bokorhoton korhihi marhaka iya	sawadan a dowada po'oka'o oamorokodan saaro kaatu	apiinajaa piila'ana emi'ijaa iiwa a'itaa juya isira iyaa asouktaa eemerawaa eitawaa eitawaa lotaa asijaa ourala awatawaa jasai	baruru áhurera adibiriha ádaha burari áhuya huya maraga sísira íen- emeragua	tawan uyakri kasru takah umuh wanag- bohaki kuruku	jáabaneri palátuna karáhi pukúpukui íiri kírai	-yáapa palána óñai híiri iñaa iirai -díeta -peréma	balza

see 02					.1		káberi	-kápa	
seed 01 she 01	aü	th\$+\$-	u-	a'ü s\$+\$-	ilaü tu-	gu-	du-	zu-	
she 02	na-	ιπφ-μ-	u-	σψ∓ψ-	cu-	gu-	du-	zu-	
shore 01	oru			olu					
shout 01	awaata			a'waataa	áwaha				
sibling 01					íbiri			-pheeri	
sing 01	eiraa			ee'irajaa	eremuha				
sister-in-law	eerü			e'erü					
01 sister-in-law				-1:::					
02	arinyu			alüinyuu					
sister-in-law							nítua∫i	-nídoa	
03							model i	maoa	
skin 01	atünü	uda	mada	ata	uraü				
sky 01				siruma	seiri		éeri		
sky 02					dúei				turei
sleep 01		donkon		atunkaa					
sleep 02 smell 01	atüma emewa			jemetaa	arumuga			-eemia	
smell 02	eejura			aataa				ccina	
	,			eejuu					
smoke 01	achita			akaijaa					
smoke 02							íisa	iitta	
smoke 03		dibaledun	diparu		_				
snake 01	wüi	ôri		wüi	hewe		. e		
sneeze 01 sneeze 02		eithidin	achawan	ashoujaa	átiunha		ée∫ineri		
son 01	achon		aciiawaii	achon	atiumia				
son 02	arin	aithi						-íri	
son-in-law 01	ashimiya			ashimia					
spider 01				walekerü		waraku			
spider 02							éeni	éeni	
spirit 01	ein			aa'in	C.				1
spirit 03 spit 01	awaawa			awaa	ufioun				hupia
split apart 01	awaawa			awaa	bougua	bukihbeta			
squeeze 01		foroton	raudan		3				
star 01					waruguma	warukma			
star 02							sáalii		starei
steal 01	arüwaa		,	a'luwajaa	, ,				
stir 01			kopoan		agubudagua		ć.,	1 1	.,
stone 01 stop 01	jüpa	shiba	kuba shaabatan	ipa asha'walawa	dübü	tip	iiba	hiipada	ziba
storm 01		akhorakhali		asiia waiawa	urou	hawkri			urogan
		annorannan							
		sodan	zoroan						
strain 01 strain 02		sodan	zoroan		áseiha	akehne			
strain 01	achura	sodan	zoroan	atu'laa		akehne			
strain 01 strain 02 suck 01 suck 02	achura	soroton	zoroan	atu'laa	áseiha chu	sus		-tsóotso	
strain 01 strain 02 suck 01 suck 02 sugar cane 01	achura		soozoan	atu'laa	áseiha	sus siku	1.4.		ŭ
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01		soroton			áseiha chu	sus	káiwia	-tsóotso kámoi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02	achura kai	soroton shikharho	soozoan	atu'laa ka'i	áseiha chu	sus siku	káiwia		kachi
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03		soroton	soozoan		áseiha chu asigaru	sus siku	káiwia		
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02		soroton shikharho	soozoan		áseiha chu	sus siku	káiwia		
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02	kai amira	soroton shikharho	soozoan	ka'i emiralaa	áseiha chu asigaru weyu agarunchagu	sus siku kamuw	káiwia		
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01	kai	soroton shikharho	soozoan kamoo	ka'i	áseiha chu asigaru weyu	sus siku kamuw	káiwia		
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02	kai amira	soroton shikharho adali	soozoan	ka'i emiralaa awareejaa	áseiha chu asigaru weyu agarunchagu	sus siku kamuw	káiwia	kámoi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02	kai amira awareeta	soroton shikharho	soozoan kamoo	ka'i emiralaa	áseiha chu asigaru weyu agarunchagu abeidaha	sus siku kamuw	káiwia		
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01	kai amira awareeta ourura	soroton shikharho adali	soozoan kamoo	ka'i emiralaa awareejaa haíſ	áseiha chu asigaru weyu agarunchagu	sus siku kamuw	káiwia	kámoi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01 swim 01	kai amira awareeta	soroton shikharho adali halithi	soozoan kamoo	ka'i emiralaa awareejaa haíſ katünaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda	sus siku kamuw		kámoi kalíri	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01	kai amira awareeta ourura	soroton shikharho adali	soozoan kamoo	ka'i emiralaa awareejaa haíſ	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili	sus siku kamuw	káiwia íiſiſi	kámoi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01 swim 01 tail 01 take 01 tapir 01	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi	soozoan kamoo paraupan	ka'i emiralaa awareejaa haíj' katünaa asi	áseiha chu asigaru weyu agarunchagu abeidaha áluda	sus siku kamuw	iififi éema	kámoi kalíri -iittípi héema	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swim 01 tail 01 take 01 tayra 01	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili	sus siku kamuw	նրր	kámoi kalíri -iittípi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tear 01	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili	sus siku kamuw ia	íi∫i∫i éema t∫úukui	kámoi kalíri -iittípi héema	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw	iififi éema	kámoi kalíri -iittípi héema	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweet potato 1 swim 01 tail 01 take 01 tayra 01 tear 01 tear 02 tear 03	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili	sus siku kamuw na	íiſiſi éema tſúukui ipákieri	kámoi kalíri -iittípi héema	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 02 sweet potato 1 swell 01 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw ia	íiſiſi éema tſúukui ipákieri	kámoi kalíri -iittípi héema	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 01 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan	ka'i emiralaa awareejaa haij katiinaa asi e'ikaa	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na	íiſiſi éema tʃúukui ipákieri ^{sa}	kámoi kalíri -iittípi héema dzóowe	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 01 sun 02 sun 03 sun 04 swallow 01 swallow 02 sweep 01 sweep 01 sweil 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01	kai amira awareeta ourura katüna	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan kuzuan	ka'i emiralaa awareejaa haíʃ katünaa asi e'ikaa amá	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na	íififi éema tJúukui ipákieri ia kamára	kámoi kalíri -iittípi héema dzóowe kamára	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweet potato 1 swin 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 ther 01	kai amira awareeta ourura katiina einka	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan kuzuan	ka'i emiralaa awareejaa haíʃ katünaa asi e'ikaa amá ashûuá chira	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na	íi∫i∫i éema t∫úukui ipákieri ia kamára a?a	kámoi kalíri -iittípi héema dzóowe	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 02 sweet potato 1 swell 01 take 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 testicles 01 that 01 there 01 there 02	kai amira awareeta ourura katüna einka	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan kuzuan	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na bak pukuhpawas	íififi éema tfúukui ipákieri sa kamára a?a tféra	kámoi kalíri -iittípi héema dzóowe kamára yaataha	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweep 10 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 01 there 02 they 01	kai amira awareeta ourura katüna einka shirü aa nana	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na bak pukuhpawas	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 testicles 01 that 01 there 01 there 02 they 01 they 02	kai amira awareeta ourura katüna einka	soroton shikharho adali halithi ihi nukun	soozoan kamoo paraupan na'akan kuzuan	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw la bak pukuhpawas ayte	íififi éema tfúukui ipákieri sa kamára a?a tféra	kámoi kalíri -iittípi héema dzóowe kamára yaataha	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweep 10 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 01 there 02 they 01	kai amira awareeta ourura katüna einka shirü aa nana	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw na bak pukuhpawas	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 01 they 02 they 03 thigh 01 thigh 02	kai amira awareeta ourura katüna einka shirü aa nana	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na-	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw la bak pukuhpawas ayte	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweet potato 1 swill 01 take 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 thete 01 there 02 they 01 they 02 they 03 thigh 01 thigh 02 think 01	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw la bak pukuhpawas ayte	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá na-	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweet potato 1 swill 01 take 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 01 there 02 they 03 thigh 01 thigh 02 think 01 this 01	kai amira awareeta ourura katüna einka shirü aa nana	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na-	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw la bak pukuhpawas ayte	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá na-	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 03 thigh 01 thigh 02 think 01 this 01 this 01 this 01 this 02	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga	sus siku kamuw la bak pukuhpawas ayte	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweet potato 1 swil 01 tail 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 01 they 02 they 03 thigh 01 thigh 02 think 01 this 02 this 03	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama na- buku	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw la bak pukuhpawas ayte	íiſiʃi éema tʃúukui ipákieri ia kamára a?a tʃéra najá na-	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 03 thigh 01 thigh 02 think 01 this 01 this 01 this 01 this 02	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw la bak pukuhpawas ayte	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 01 there 02 they 03 thigh 01 this 02 think 01 this 01 this 02 this 03 this 04	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama na- buku	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao ĩ-	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw la bak pukuhpawas ayte	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 02 sun 03 sun 03 sun 04 swallow 02 sweep 01 sweep 02 sweet potato 1 swim 01 tail 01 take 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 there 01 there 02 they 01 they 02 they 03 thigh 01 this 01 this 02 this 03 this 04 this 05 this 06 this 07	kai amira awareeta ourura katüna einka shirü aa nana na- apüye shi	soroton shikharho adali halithi ihi nukun kama na- buku	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao ĩ-	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü chi(i)	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw bak pukuhpawas ayte gi-	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa na-	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 tail 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 03 thigh 01 thigh 02 think 01 this 02 this 03 this 04 this 05 this 05 this 06 this 07 thorn 01	kai amira awareeta ourura katüna einka shirü aa nana na- apüye	soroton shikharho adali halithi ihi nukun kama na- buku	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao ĩ-	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw bak pukuhpawas ayte gi-	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa nakótshi	
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 01 sweep 01 sweep 01 tail 01 take 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 01 there 02 they 03 thigh 01 this 01 this 01 this 01 this 01 this 01 this 03 this 04 this 05 this 06 this 07 thorn 01 thorn 01	kai amira awareeta ourura katüna einka shirü aa nana na- apüye shi	soroton shikharho adali halithi ihi nukun kama na- buku li to	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao ĩ-	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü chi(i)	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw bak pukuhpawas ayte gi-	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa nakótshi	kachi
strain 01 strain 02 suck 01 suck 02 sugar cane 01 sun 03 sun 03 sun 04 swallow 01 sweep 02 sweep 01 sweep 02 sweet potato 1 swill 01 tail 01 tail 01 tapir 01 tayra 01 tear 01 tear 02 tear 03 tell 01 termite 01 testicles 01 that 01 there 02 they 03 thigh 01 thigh 02 think 01 this 02 this 03 this 04 this 05 this 05 this 06 this 07 thorn 01	kai amira awareeta ourura katüna einka shirü aa nana na- apüye shi	soroton shikharho adali halithi ihi nukun kama na- buku	soozoan kamoo paraupan na'akan kuzuan kuu ĩnao ĩ-	ka'i emiralaa awareejaa haif katünaa asi e'ikaa amá ashûuá chira cha'aya naya na- apü'ü chi(i)	áseiha chu asigaru weyu agarunchagu abeidaha áluda ili anüga heiri	sus siku kamuw bak pukuhpawas ayte gi-	éema tʃúukui ipákieri ia kamára a?a tʃéra najá na- húiſi	kámoi kalíri -iittípi héema dzóowe kamára yaataha nháa nakótshi	

throw 01 thunder 01	eichü			ajutaa atûttá	achüra				
tick 01	eichu			atutta	gubari	kuvar		kóopali	
tie 01					gürá				
tie 02			sukuruupan						
tie 03 to, ben 01	apürü	boran		apüla		avit	báhieri		
to, ben 01	apuru	boran	di'iti	apuia		avit			
tobacco 01		yorhi		yüi	iúri				
toe 01		koti			líraü				
		ibira			ugudi				
toe 02		koti ibira		ejepira					
toe nail 01		bada	bazi	apato'u	ubaraü				
tomato 01	tomaate				dumadi				tomates
tomorrow 01	wattaa			watta'a	_	_			
tomorrow 02	~				haruga	takuwa	í e.		
tongue 01 tooth 01	aweña ai	uyê ari		ayee ai	ieñei ari	ginen aybut	inanee∫i ée∫i	-eenene -eetsha	
tree 01	kunu(n)	arr		wunu'u	arr	aybut	eeji	-eetsna	
tree 02							áikuba	haiko	
trunk 01	eipiya			eje'püse			,		
turtle, sea 01					higidi		íit∫ali		icotea
twist 01 twist 02			sorian		guribi				
two 01	pími	bian	borrair	piama	biama				bem
two 02			dya'utam	1			t∫ámata	dzama-	
two 04						mmukna			
two 05						pebkak			
unripe 01 unripe 02		tomore		wüittüsü	würigi				
untie 01		tomore			fará				
urinate 01	eita			ashiitaa	asisiha				
urinate 02		dakan			áragua	.1.1	tákeri	-dáka	
urinate 04 urinate 05			zuni			ahinap			
urinate 06	auriyacha		zum						
vein 01	asüra			asüla					
village 01							t∫akále∫i	dzakálee	
village 02 village 03	kanüye					paytwempu			
village 04	Marraye	shikoahu							
village 05			wiizai						
village 06				wayuu					
village 07 village 08				pueulo	aüdü				
village 09					ageiraü				
vomit 01	aweta	wedin		eetaa	eweragua				
vomit 02							kétairi	-kátha	
vomit 03 vomit 04			taitaan			gihikakni			
vulture 1		anoana	anoan						
vulture 2	mátarin		wato		wadubi		wáat∫uli	wáadzoli	aura
waist/hips 01					íbiri		wálibe∫i	-wali	
wait 01	ayaapaa	obadunbo	or z audapan	a'atapajaa	agurabaha				
wait 02 wake 01						wahap	káwederi	-wapa -kawhieta	
wake 02							káweriu	-kawhieta	
want 01	achaka			achekaa					
wash 01	achijaa	,		ashijawaa	achiba	, , .		1.4.3	
wash 02 water 01	wiin	sokoson oni			duna	sukuheku		-kótsho	
water 01 water 02	wiili	JIII	wunu	wüin	dulla			óoni	ama
we 01	we	we	faa	waya		wiy	wajá	whía	-
we 02	wa-	wa-	wa-	wa-	wa-	u-		wa-	
what? 01	keeta	halileh-			katei				
when? 01 when? 02		halikha			ida me				
when? 03	jeere								
when? 04			dono						
when? 05			na'apainim						
when? 07 when? 08						aysaw	háikta		
when? 09								koame	
								kawálhi	
when? 6				jouja		lrinov			
where 04 where? 01	jara ya	alon		jalaa	halía	kiney			
where? 02	jara ya	aion	na'iam	Jaiaa	nana				
where? 03						kiney			
where? 05							. of .	kálhe	
where? 07	le			Images of			t∫íte•tá		
white 02 white 03	kasuu	harhira		kasúu-si	haruti			hále	
white 04			baraka'o						
white 05						seyboye			
white 06									luca
white 07 white 09							kabálai	yalanawi	
white-lipped.p	eccary			püülükü	buiruhu				
01									

03 Nite-lipped.peccary kerun	white-lipped.pec	caannyatiyara								
04 white-lipped peccary	03									
white-ipped peccary of the polymorphy of the pol		cary	keerun							
white lipped pec	white-lipped.pec	cary								
white import peccary of the whole of the who		cary		bichi			pakir		aapídza	
107		rarv								
who? 02		ary								
who? 03		ioro			iarai	ká	ka-			
who? 05 who? 07 who? 07 who? 07 who? 08 who? 09 who? 08 who? 09 who? 08 who? 09 who? 08 who? 09 who? 0	who? 03	Jara	halikan		Jarai					
who? 06 who? 08				kanom			parive			
wheof 08							pariye			hiqui
wife 01 eri creitho daiaro certiin jarii imn -fino wife 04 4 1 2 jani jinu -fino wife 06 4 2 4 jani káuli kawaale wife 06 4 3 awadoli awaru may káuli kawaale wind 02 5 awadoli awaru may may may wind 03 joutei wind 06 garabali may may anaphe wing 01 atina duna 4 tina rina -naphe wing 03 aurera rödun ragá run máabají -naphe wing 03 aurera rödun ragá barew -naphe wipe 04 aurera rödun juna juna hanh wipe 05 aurera rödun juna juna juna juna juna wipe 06 aurera								tána	kánka	
wife 05		eri	ereitho	daiaro	eerüin	jierü			KUdKd	
wife 05 wife 06 Image of the property								íinu	-iino	inuya
wife 06 wife 06 wind 01 wadoli awaru wind 02 kâuli kawaale wind 03 joutei						umarı	gihavo			
wind 02 waw of 1 waw of 1 waw of 1 wind 05 joutei wind 06 wind 02 wind 02 wind 02 wind 02 wind 03 wind 04 wind 04 wind 05 wind 06 wind 06 wind 07 wind 06 wind 07 wind 08 wind	wife 06					$_{ m -iani}$	5			liani
wind 03 wind 04 youte'			awadoli	awaru				káuli	kawaale	
wind 05 joutei jouktai garabali	wind 03		awadon	awara			mayg			
wind 06		ioutei			iouktai					banzex
wing 02	wind 06	jouter			jouktai					
wing 03		atüna	duna		atüna	arünaü	ahanni	náabaifi	-naphe	
wipe 02 wipe 03 wipe 04 wipe 04 wipe 05 wipe 06 wipe 06 wipe 06 wipe 07 wipe 08 with 01 also amo with 02 aka idi ojuichajaa barew barew shada jatfa haatha pidzo shada	wing 03			wion			ananpi	naabanji	парис	
wipe 03 rôdun inoan ojuichajas serent sere		aurora				ragá				
wipe 05 wipe 07 wipe 08 wipe 08 wipe 08 wipe 08 with 01		aurera	rôdun							
wipe 06 wipe 07 - hatha wipe 08 - hatha pidzo - hatha pidzo wipe 08 aka - idi - akak játja - hatha pidzo with 02 aka - idi - abohri - apídza - inai with 03 - idi - abohri - apídza - inai - inai with 05 - idi - idi - idi - idiai - inai				inoan	o i vieho i o o					
wipe 08 with 01 amo oma tuma amaa úma úma akak játfa with 02 aka idi idi amo with 04 aka idi akak játfa with 05 with 05 aka with 06 aka idi akak játfa abohri akapitha akapith					Ojuiciiajaa		barew			
with 01 amo oma tuma amaa úma with 03 aka idi akak játfa with 04 idi abohri —aapídza with 06 with 06 —aapídza —imai with 07 with 07 —yo —yo woman 01 ñeerü hiyaro gierü jierü —imai woman 02 zuna würi gitinora —yo woman 03 woman 04 —yo kaudian —yo work 01 work 02 work 03 atarawaa work 04 —déenhi work 04 work 05 awadigimarida —déenhi work 06 pazaro pazaro heweraü kawri —omápi worm 07 pazaro heweraü kawri —omápi worm 05 pazaro heweraü kawri —omápi worm 07 ariya alio'u —omápi —omápi worm 05 pariya bariya —omápi										
with 03 with 04 abohri —aapídza with 05 —aapídza —imai with 06 —imai —imai with 07 —yo —yo woman 01 ñeerü hiyaro jierü jierü jiinai woman 02 woman 03 würi —yo woman 04 —yo würi —yo woman 07 work 01 —wiri gitinora —yo work 01 —wiri gannivwi —wiri work 03 atarawaa mekhebon awadigimarida —déenhi work 05 —work 06 —wiri —déenhi —déenhi work 07 —worm 03 usehi —gikawa —déenhi worm 07 poxaro —wiri —gikawa —déenhi worm 07 ariya alio'u —wiri —wiri worm 07 ariya —wiri —wiri —wiri worm 07 ariya —wiri —wiri —wiri wound		amo	oma	tuma	amaa	úma			-pidzo	
with 04		aka		:3:			akak	ját∫a		
with 06 -final with 07 -final with 08 fierü woman 01 fierü woman 02 jierü woman 03 würi woman 03 würi woman 04 gitinora woman 07 würi work 01 kaudian work 02 mekhebon work 03 atarawaa work 04 gannivwi work 05 gannivwi work 06 gannivwi work 07 gannivwi worm 04 gikawa worm 05 gikawa worm 04 pazaro worm 05 kawi worm 07 pazaro worm 08 kawi worm 09 alio'u wound 01 ariya wound 02 jina wound 03 alio'u wound 04 pauna wound 05 gibuskana wound 06 ganiniwi wound 07 ganiniwi </td <td></td> <td></td> <td></td> <td>101</td> <td></td> <td></td> <td>abohri</td> <td></td> <td></td> <td></td>				101			abohri			
with 07 -final -yo with 08 fieerü hiyaro jierü jierü fina finao woman 02 woman 03 würi würi jimora würi woman 04 woman 04 würi gitinora würi work 01 kaudian gitinora würi work 02 mekhebon a'yatawaa gannivwi déenhi work 03 atarawaa mekhebon a'yatawaa gannivwi -déenhi work 05 work 06 work 07 word 07 awadigimarida -déenhi worm 07 jokoma worm 08 gikawa -déenhi worm 07 pazaro heweraü kawri oomápi worm 05 worm 05 comápi comápi worm 07 ariya kori payaga chaünti domápi wound 03 ariya kodikitin gibuskana -dzáana wound 05 kodikitin kodróloo (h)ouburagua -deñápa	with 05									
Second S										
Suma 1										
Woman 03 Woman 04 Würi Gitinora Gi		ñeerü	hiyaro		jierü	jierü		íina		inaru
Woman 04				zuna		würi				churon
Mork 01	woman 04						gitinora			
work 02 mekhebon work 03 atarawaa a'yatawaa gannivwi work 06 -déenhi work 06 swrk 06 awadigimarida -déenhi awadigimarida -déenhi worm 07 jokoma usehi gikawa -omápi worm 03 pazaro heweraü kawri -omápi worm 05 ariya alio'u -omápi wound 01 ariya alio'u -omápi wound 03 ikorihi -omápi -deăana wound 05 chaünti -omápi -dzáana wound 06 -omápi -dzáana -dzáana wound 07 bazobatan -dzáana -dzáana wrap 04 -omápi -deñápa -kaarophéta wrap 05 -omápi -deñápa -kaarophéta wrap 07 -omápi -deñápa -kaarophéta wrist 01 apuna -omápi -pokóda				kaudian						bibi
work 04	work 02		mekhebon							
work 05 work 06 work 07 worm 01 jokoma worm 02 usehi worm 03 worm 04 worm 05 worm 07 ariya wound 01 ariya wound 01 wound 03 wound 04 wound 05 wound 06 wound 06 wound 07 wound 07 wound 07 wound 07 wound 08 wound 09 wound		atarawaa			a'yatawaa		gannivwi			
work 07	work 05						3			boria
worm 01						awadigimar	ida		-déenhi	
worm 03		jokoma				awaaagamaa	144			
worm 04			usehi				gikawa			cusi
worm 07	worm 04			pazaro			gilland			
wound 01 ariya alio'u wound 02 ikorihi wound 03 bauzaian wound 04 yaga wound 05 chaünti wound 06 jusana wound 07 dezáanaa wrap 01 kodikitin wrap 02 bazobatan wrap 03 kodikitin wrap 04 kanuk wrap 05 kanuk wrap 06 kanuk wrap 07 deñápa kara ophéta wrist 01 apuna wrist 01 apuna wrist 02 kahabokoto wrist 03 ka'u dikoi- jpan						heweraü	kawri		oománi	
wound 03 bauzaian wound 04 yaga wound 05 chaünti wound 06 gibuskana wound 07 -dzáanaa wrap 01 kodikitin wrap 02 bazobatan wrap 03 (h)ouburagua wrap 04 kanuk wrap 05 kanuk wrap 06 kanuk wrap 07 -deñápa wrist 01 apuna wrist 01 apuna wrist 02 khabokoto wrist 03 ka'u dikoi- ipan	wound 01	ariya			alio'u				oomapi	
wound 04			îkorihi	hauraian						
wound 05 chaünti wound 06 gibuskana wound 07 -dzáanaa wrap 01 kodikitin wrap 02 bazobatan wrap 03 oko'oloo wrap 04 (h)ouburagua wrap 05 kanuk wrap 06 wowaneri wrap 07 -deñápa wrap 08 -deñápa wrist 01 apuna wrist 02 khabokoto wrist 03 ka'u dikoi- ipan				Dauzaiaii		yaga				
wound 07							211			
wrap 02 bazobatan wrap 03 oko'oloo wrap 04 (h)ouburagua wrap 05 kanuk wrap 06 wówaneri wrap 07 -deñápa wrap 08 -kaarophéta wrist 01 apuna ufuñei wrist 02 khabokoto -pokóda wrist 03 ka'u dikoi- ipan ijkoi- ipan							gibuskana		-dzáanaa	
wrap 03 wrap 04 wrap 05 wrap 06 wrap 06 wrap 07 wrap 08 wrap 08 wrist 01 apuna kanuk wówaneri wrist 02 khabokoto wrist 03 ka'u dikoi- ipan			kodikitin	1 1 . 4						
wrap 04 (h)ouburagua wrap 05 kanuk wrap 06 wówaneri wrap 07 -deñápa wrap 08 -kaarophéta wrist 01 apuna ufuñei wrist 02 khabokoto -pokóda wrist 03 ka'u dikoi- ipan ipan ipan				bazobatan	oko'oloo					
wrap 06	wrap 04					(h)ouburag				
wrap 07 -deñápa wrap 08 -kaarophéta wrist 01 apuna ufuñei wrist 02 khabokoto -pokóda wrist 03 ka'u dikoi- ipan							kanuk	wówaneri		
wrist 01 apuna ufuñei wrist 02 khabokoto -pokóda wrist 03 ka'u dikoi- ipan	wrap 07									
wrist 02 khabokoto -pokóda wrist 03 ka'u dikoi- ipan		anuna				ufuñei			-kaarophéta	b.
dikoi- ipan	wrist 02	эрини	khabokoto			aranoi			-pokóda	
ipan	wrist 03									
wrist 04 ajapkii										
wrist 05 gikan					ajapkii		aikan			
wrist 06 -kaapi							g		-kaapi	

you.pl 02 you.pl 03	jaña	hi	unao	jia		yis	iha	hia	
you.pl 04 you.sg 02 you.sg 03 you.sg 04 you.sg 05 young woman	piya	bi	pugaru	pia	hugaya bugaya amürü	pis gitinora	ijá	phia	te
young woman 03 young woman 04 young woman 05		satho	mawuusa			gitinora	mijákau		
young woman 06 younger brother 01 younger brother 02 younger brother 03 younger brother 4	ta-muiñi	dikhidi	dawiichan	emülia	amuleñei	gisamwi		iinaróda	
younger brother 5								-mhereeri	