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A typological overview of Eegimaa (Jóola Banjal)¹

Abstract:

This paper examines some of the most prominent properties of Eegimaa, a Jóola/Diola² language spoken in the Basse-Casamance (Southern Senegal). The phonological features examined include [ATR] vowel harmony, backness harmony, lenition, and Eegimaa's typologically unusual geminate consonants. The paper focuses primarily on Eegimaa morphology. My analysis of the noun class system separates morphological classes from agreement classes (genders), as suggested in Aronoff (1994), and presents the most important principles of semantic categorization, including shape encoding. I also show that Eegimaa classifies nouns and verbs by the same overt linguistic means, namely, noun class prefixes. I argue that this overt classification of nouns and verbs reflects parallel semantic categorization of entities and events. Other prominent typological features include associative plural marking and nominal TAM marking with the inactualis suffix, which also expresses alienability contrasts.

Keywords: Atlantic; Jóola; noun class semantics; non-finite verb classification; alienability; nominal tense; geminates, vowel harmony

1 Introduction

Gújjolaay Eegimaa (Eegimaa for short) is a member of the Jóola cluster of languages spoken in southern Senegal. I provide an overview of selected grammatical features of Eegimaa, with a focus on morphology. Some of the grammatical phenomena are discussed within the context of related Jóola languages but also from a broader typological context. Many of the phenomena discussed here are also discussed in available descriptions of Eegimaa (Bassène 2007; Tendeng

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² The orthographic system used in the rest of this paper is based on Sagna (2011b), which is adapted from the Senegalese Code for the transcription of national languages. An acute accent is placed on the first vowel of a word to indicate that its vowels belong to the [+ATR] set. When the vowels are [-ATR] no accent is added. Since the word Jóola has [+ATR] vowels in all known Jóola language varieties, it is spelt with an acute accent on its first vowel. Note that in some works, Jóola is spelt <Joola>, disregarding the [+ATR] distinction. There are also publications where it is spelt <Diola>. This spelling, which is based on French, will not be used in this paper. The vowel [o:] in most Jóola languages is long, hence the doubling of the vowel in <Jóola>. Although Eegimaa itself lacks long vowels, I will continue to use the spelling <Jóola> to talk about these languages as a group because Eegimaa is unusual in having geminates where the other Jóola languages have long vowels. Other important orthographical notations include the following: <j> = [j], <ñ> = [ɲ], <ç> = [ʃ]. Gemination is shown by consonant doubling.

2007; Sagna 2008; Bassene 2012), but most of the phenomena I examine here are presented with a new analysis.

I begin with some comments on classification and continue with an overview of the segmental phonological system in Section 3, where I discuss processes such as vowel harmony and lenition. The morphological structure is investigated in Section 4. It includes an overview of the noun class system and the overt classification of non-finite verbs, a typologically unusual phenomenon (McGregor 2002), which in Eegimaa is characterized by the morphosyntactic classification and the semantic categorization of non-finite verbs using noun class markers. A survey of the TAM system is also provided and includes an analysis of the inactualis TAM suffix *-en*, which functions as a nominal tense marker, expressing both past possession and alienability contrasts with nouns (see Nordlinger & Sadler 2004 for a cross-linguistic survey). A brief discussion of some basic aspects of Eegimaa syntax is provided in Section 5. The discussion is summarized in Section 6.

2 Classification and genetic affiliation

2.1 Classification and location

Eegimaa is a member of the cluster of Jóola languages belonging to Sapir's (1971) BAK³ group of the Atlantic family of the Niger-Congo phylum ((Pozdniakov & Segerer, In press). Jóola languages are native to the Gambia, the Lower or (Basse) Casamance area of southern Senegal, and the north of Guinea Bissau. The term Eegimaa,⁴ as Sambou (1989) points out, is used by speakers to distinguish their language from other related Jóola languages. Other popular names for this language include *Endungo*, a name used by the neighbouring speakers of the Bayot language. But the most popular kinds of names for this language are those derived from village names and used both by speakers and outsiders. *Banjal* ('the language of Banjal'), which is the most popular of these names, is generally used by speakers from the Jóola Fógny and Búluf areas. Increasingly, native speakers of Eegimaa use its Eegimaa equivalent, the term *Gubanjalay*⁵ (Banjal), to refer to their language. *Kusiilay* ('the language of Essil') is another

³ The name *BAK* is given to a group of languages of the Atlantic family for which the plural personal marker has the form *B(V)K* (Sapir 1971), where V stands for 'vowel'.

⁴ Eegimaa means 'here is what I am telling you'. Since the term is not found in other Jóola languages in this form, it is used by Eegimaa speakers to distinguish their language from other Jóola languages.

⁵ The prefix *gu-* is the noun class prefix used for language names in Eegimaa. Its equivalent in most other Jóola languages is *ku-*.

name used for Eegimaa by speakers of Kujireray from the neighbouring village of Brin. Eegimaa is known as *Gúlaay* ('the language of Sállagi') by speakers from the area of Sállagi. This name is the one used by speakers of Jóola Kaasa (pronounced as *Kulaakiay*). In the linguistic literature the names used for Eegimaa are Gújjolaay/Jóola Eegimaa (Sambou 1989; Sagna 2008; Bassene 2012); Jóola Banjal (Sapir 1971; Bassène 2007) and Gusiilay (Tendeng 2007). Notice that Tendeng (2007) uses *Gusiilaay* ('the language of Essil') to refer to Eegimaa because many speakers argue that Gusiilay is the original name for the language, which reflects the fact that Essil was founded the first of all Mof-Ávvi villages. But this name is potentially confusing, since Gusiilaay is also used for the Jóola variety spoken in Thionk-Essil, a village located on the north bank of the river Casamance whose founders migrated from Essil.

Eegimaa is spoken in a polity (Kopytoff 1987) of ten villages, commonly called the kingdom of Mof-Ávvi ('the king's land'), traditionally governed by a sacred chief. The territory is located on the south bank of the Casamance River and extends from the west of Ziguinchor, the capital city of the southern region of Senegal, to the southwest of the city. Lects closely related to Eegimaa are spoken on the north bank of the Casamance River in villages including Affiniam, Boutam, Djilapaor, and Thionk-Essil. There are also settlements of Eegimaa speakers in multilingual villages such as Djifanghor and Bourofaye located East of the City of Ziguinchor. But today, the largest of Eegimaa diaspora communities are found in Ziguinchor and in Dakar, the capital city of Senegal.

3 Phonology

3.1 Vowels and vowel harmony

One of the most notable features of the Eegimaa phonological system compared to other Jóola languages is that there are no phonologically long vowels, in contrast with languages like Jóola Fogny (Sapir 1965) and Jóola Kaasa Esuulaalu? (Sambou 1979). Instead, Eegimaa has geminate consonants preceding short vowels that are long in other Jóola languages. This typologically unusual feature (Stuart Davis and Eric Round p.c.) is illustrated in example (1),⁶ showing that Eegimaa length is on consonants rather than on the vowels that bear the length feature in closely related languages.

⁶ Phonetic notation is used in this section only. I use the Eegimaa orthographic notation in the rest of the paper.

- (1) Eegimaa fi-ttɪx ‘war’
 Esuulaalu? xo-tɪk ‘war’
 Fogny fʊ-tɪk ‘fight/war’

Eegimaa geminates also occur in places where voiceless NC consonant clusters are found in other Jóola languages, because NC consonant clusters of this type are not permitted in the language. Example (2) illustrates these correspondences between Fogny and Eegimaa.

- (2) Eegimaa Fogny
 appa ‘dad’ **ampa** ‘dad’
 gəs**otten** ‘to treat’ kas**onten** ‘to treat’
 es**ikki** ‘to be deep’ es**inki** ‘to be deep’

3.1.1 [ATR] vowel harmony

Eegimaa has a ten-vowel system, with two sets that differ in terms of what is commonly described as [+/-] Advanced Tongue Root, as shown in Table 1.

Table 1. The two [ATR] vowel sets in Eegimaa

[-ATR]		[+ATR]	
ɪ	ʊ	i	u
ɛ	ɔ	e	o
a		ə	

The type of vowel harmony found in Eegimaa is, in Clement’s (2000: 135) terms, a dominant harmony system. Vowels in a word tend to be either [-ATR] or [+ATR], as exemplified in

Table 2.⁷

Table 2. [ATR] harmonic sets in Eegimaa

[-ATR]		[+ATR]	
fiɪl	‘breast’	fiil	‘palm tree inflorescence’
gæɪl	‘noise’	gæel	‘mind a child’
ambala	‘fisherman’	gəbbəβə	‘chili’

⁷ There are exceptions to this generalization: for example, the vowel [a] in words like [əxula], where it does not harmonize when it functions as an opaque vowel by blocking vowel harmony.

jəffər	‘kind of fish’	ɲondon	‘nape’
bɔtɔm	‘mouth’	ɲug:ur	‘dwarf’

In Eegimaa and other Jóola languages (Sapir 1965; Sambou 1979, 1989; Sambou and Lopis 1981; Bassène 2007; Tendeng 2007; Sagna 2008; Bassene 2012), dominant vowels in vowel harmony are those of the [+ATR] set, which occur only in roots and in certain suffixes. In general, vowels of the [-ATR] change in quality when there is a dominant vowel in the root or suffix. This is exemplified in (3), where [+ATR] forms are highlighted in boldface.

(3)	Input	Output	Gloss
	ε- ɸur -en	e-ɸur-en	‘remove’
	gu-loɓ- um	gu-loɓ-um	‘language’
	ε-ppeɣ- ul	e-ppeɣ-ul	‘open’

3.1.2 Backness harmony of high vowels

Eegimaa has a second type of vowel harmony,⁸ which targets only high vowels and accounts for the allomorphic variation between the prefixes [ɪ] and [ʊ] on noun class prefixes. As Bassène (2007) shows (see also Bassene 2012), in prefixes with an initial labial consonant, such as those in (4), the vowel [ɪ] occurs if the initial stem vowel is a front vowel ([ɪ] or [ɛ]).⁹ In all other cases (see (5)), such as when the stem vowel is [a], the vowel of the noun class prefix is [ʊ].

(4)	[bɪ-ɛb]	‘hunger’	[fɪ-ɪɲ]	‘liver’	[mɪ-sɪs]	‘salt’
(5)	[bʊ-tɔm]	‘mouth’	[fʊ-ar]	‘root’	[mʊ-sʊr]	‘urine’

In prefixes with an initial coronal consonant, the vowel is [ɪ] if the initial vowel of the stem is the front vowel [ɪ] or [ɛ] or the central vowel [a], as exemplified in (6). In all other cases the prefix vowel is [ʊ] (see (7) below).

(6)	[ɲɪ-t:ɔɲa]	‘firefinch’	[ɲɪ-xɪnd]	‘plot of rice field’	[ɲɪ-rɛm]	‘small pond’
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⁸ I previously labelled this type of vowel harmony as involving height (Sagna 2008), but it is better described as involving backness as in Bassene (2012).

⁹ These rules apply regardless of the [ATR] feature of the vowels of the roots.

(7) [ɲʊ-ssɔ] ‘shame’ [jɔ-ppɔ] ‘bird’ [ɲʊ-ttɔt] ‘cold’

3.2 Consonants and phonological processes

Eegimaa has seventeen phonemic consonants, all of which have geminate counterparts. .

Table 3 below presents an inventory (showing singleton consonants only).

Table 3. Consonant phonemes in Eegimaa (gemines not shown)¹⁰

	Bilabial	Labiodental	Alveolar	Palatal	Velar
Plosives	p/ b		t/ d	c/ ɟ	k/ g
Nasal	m		n	ɲ	ŋ
Fricative		f	s		
Lateral			l		
Approximant	w			j	

Examples of minimal pairs, like /ɛ-paŋ/ ‘shrine’ and /ɛ-ppaŋ/ ‘fishing fence’, /ɛ-fas/ ‘drain’ and /ɛ-ffas/ ‘know’, illustrate the contrast between simple consonants and geminates. For a discussion of consonantal allophonic variations and geminates see Sagna (2008: 85-94 and 95-96).

Lenition of singleton consonants is a notable allophonic process in Eegimaa (see Hantgan-Sonko (2017) for an alternative analysis to the one proposed here). It includes the fricativization of voiceless plosives in word-initial position in some words, as in [ɸajɔm] ‘my father’, but also applies consistently in intervocalic and word-final position, as in [ɛɸaɸ] ‘dust’. Voiced plosives are always fricativized in intervocalic position, as in [baβɛ] ‘around here’. In word-final position, they are devoiced, as in [ɛlab] ‘boil’.

Geminates occur in their full form in intervocalic position, as in [ga-bbut] ‘fishing rod’ and [ja-ssaw] ‘hunt/hunting’. In word-final position, geminates are phonetically simplified, as in [ɛ-βot] ‘deceive’. Their full forms are always restored in the case of suffixation, as in [ni-βutt-e] ‘I deceived’.

¹⁰ [x] is an allophone of /k/ and [r] is an allophone of /d/ (see Sagna 2008).

(8) [ɛ-mbal] 'fish net' [ɛ-ndɛ] 'thing' [ɲɲɛ] 'me' [ɛ-baŋgal] 'shield'

(9)	Input	Output	
	[ε-lat]	‘refuse’	[ni-lal-ε] ‘I have refused’
	[ε-fɔx]	‘switch	[ni-fɔy-ε] ‘I have switched off’

Consonant loss occurs in words such as in [na-lalat] ‘s/he refused’ (a minimal pair with [na-llalat] ‘s/he hung’), where the final [t] is deleted from the base [lat] ‘refuse’, because consonant clusters other than NC clusters are banned in Eegimaa. In prenasalization, a word-final nasal assimilates and becomes homorganic with the reduplicated root-initial voiced consonant, as in [nɪ-βɔmbɔŋ] ‘I sent’, which is formed from [ɛ-βɔŋ] ‘send’. This process also involves resyllabification of the final nasal consonant.

7

4.1 Nominal morphology

The typical morphological structure of the noun in Eegimaa can be represented as in (10) below and exemplified with the noun *ga-ñen-om* ‘my hand’. A noun is generally composed of a stem (in boldface), to which a prefix, traditionally referred to as a noun class marker, is attached. The stem may or may not be followed by a suffix.

(10) Noun class marker-**stem**-(suffix)

Suffixes that attach to Eegimaa nouns include possessives (see §4.1.3.1 below), the associative plural (see §4.1.3.2), and the inactualis (see §4.1.3.3). They also include suffixes such as the ‘life stage’ suffix (cf. 4.1.4.1) and the argument nominalization suffixes (§4.1.4.2). The discussion of nominal morphology begins with an overview of the Eegimaa noun class system.

4.1.1 The noun class system

Eegimaa has a noun class/gender system in which prefixes are used as noun class markers. The terms gender and noun class are often used interchangeably in the typological literature to refer to agreement-based systems of nominal classification where all nouns in the language are assigned to a class or gender based on agreement criteria (Welmers 1973; Greenberg 1978; Corbett 1991; Creissels 1999; 2001; Grinevald 2000; Aikhenvald 2000). As is typical for a Niger-Congo noun class system, there is no sex-based distinction in Eegimaa. In Eegimaa controller nouns trigger agreement on different agreement targets. This is illustrated in examples (11) to (13) below, where the gender and number feature values are the same on controller nouns, on the definite determiner, and on the subject marker on verbs.¹¹

(11) fu-jam fafu fú-ssum-e
CLfu-rainy.season(IV.SG) IV.SG.DEF IV.SG-be.good-CPL
‘The rainy season is good.’ (ss20150820_NES)

(12) fu-laor fafu fu-sassar

¹¹ In this paper, the source of the data presented in the examples is given in brackets beside the free translation. The data come from various genres, including participant observation, songs, narratives, and elicitations. Simple example sentences come from my own native speaker intuitions.

CLfu-rope(IV.SG) IV.SG.DEF IV.SG-break.REDUP

‘The rope is broken.’ (ss060409_ab)

- (13) gu-laor gagu gu-sassar
 CLfu-rope(IV.PL) IV.PL.DEF IV.PL-break.REDUP

‘The ropes are broken.’ (ss060409_ab)

The examples above illustrate syntactic or formal agreement where formal properties of the controllers are reflected on their agreement targets (Corbett 2006: 155). Formal agreement in gender and number generally comes with alliterative agreement between the nominal prefix and the agreement marker, though this is not always the case.

In the traditional approach to the analysis of Niger-Congo noun class systems, a singular and a plural form of a lexeme are assigned to different classes. Thus the singular noun *fu-laor* ‘rope’ and its plural counterpart *gu-laor* ‘ropes’ in examples (12) and (13) above belong to different classes. Singular nouns, like those in (11) and (12), belong to the same class because they trigger the same agreement markers on the same targets. Based on the traditional noun class approach in Niger-Congo languages, where singular and plural are treated as different classes, Eegimaa has 15 classes (Sagna 2008; Sagna 2010).

There are, however, more complex cases where there is no similarity between a nominal prefix and the corresponding agreement marker(s). This is exemplified in (14) with the noun *ji-ggaj* ‘panther’, which takes the singular prefix *ju-/ji-*¹² and triggers agreement in the default Gender II singular *e-/y-* on all targets. Note that most nouns which take the singular prefix *ju-/ji-* normally trigger agreement markers of the form (*ju-/ji-*). Example (14) illustrates instances where nominal morphological class and agreement class do not match.

- (14) ji-ggaj yayu é-lapulaput
 CLju-panther(II.SG) II.SG.DEF II.SG-be_cruel.REDUP

‘The panther is cruel.’ (ss040918_ñuhul)

The situation is more complex with hybrid nouns, i.e., nouns which trigger different agreement marking on different targets (see e.g. Corbett 2015). This is illustrated in (15), where the noun *sú-jur* ‘young women’, which belongs to the morphological class *e-/su-*,

¹² Recall from Section 3.1.2 that the alternation between the vowels /i/ and /u/ in noun class prefixes is based on backness harmony of high vowels and does not reflect a change in nominal prefix.

triggers agreement in Gender II plural on the definite determiner, but the agreement marker on the verb is from a different gender, namely Gender I plural (*gu-*). There is a mismatch in the gender feature but not in number, since the number value is plural everywhere.

- (15) *sú-jur* *sasu* *gu-ol-e*
 CLsu-girl(II.PL/I.PL) II.PL.DEF I.3PL-go_home-CPL
 ‘The girls/young women have gone home.’ (ss11072013_MT)

Examples like (14) and (15) above illustrate the ambiguity in the use of the term ‘class’ in traditional descriptions of Niger-Congo noun classes. Corbett (1991: 45) points out that when it is said that a noun belongs to a particular class, it is unclear whether it is the morphological form of the noun or its agreement that is meant. He proposes a distinction between morphological classes, which are the sets into which nouns are divided, and genders, which are the agreement classes of the targets (Corbett 1991: 47).¹³ The identification of genders/agreement classes in this approach is essentially based on the notion of agreement class defined in Corbett (1991: 147, 2007: 243) as a set of nouns which, whenever ‘they stand in the same morphosyntactic form’ (e.g. singular) and ‘occur in the same agreement domain’ (e.g. the noun phrase) and ‘have the same lexical item as agreement target’ (e.g. adjective), have the same morphological realization on their targets. This is the approach I use in this paper.¹⁴

According to the gender approach, the nouns *ji-ggaj* ‘panther’ in (14) above and *e-joba* ‘dog’ in (16) below, which belong to different morphological classes as evidenced by the prefixes they take, belong to the same gender class, since they trigger the same agreements in the singular and the plural (compare (14) above with (18) below, and (16) with (17)).

- (16) *e-joba* *yayu* *é-lapulaput*
 CLE-dog(II.SG) II.SG.DEF II.SG-be_cruel.REDUP

¹³ The separate treatment of morphological classes in this paper, following Corbett (1991), is also comparable with the ‘paradigm approach’ (see Cobbinah 2013; Watson 2015; Pozdniakov 2010). For simplicity I present most examples using the singular forms.

¹⁴ With this approach, it is assumed that number is primarily an inflectional grammatical feature. The argument that number as expressed in noun class systems is derivational has been proposed in a number of works on Niger-Congo noun class systems (e.g. Mufwene 1980; Schadeberg 2001; Cobbinah & Lüpke 2014). I leave this issue for future research, where the criteria to be used for arguing in favour or against the inflectional or derivational properties of number can be investigated in detail.

‘The dog is cruel.’

- (17) su-joba sasu sí-lapulaput
CLsu-dog(II.PL) II.PL.DEF II.PL-be_cruel.REDUP

‘The dogs are cruel.’

- (18) si-ggaj sasu sí-lapulaput
CLsu-panther(II.PL) II.PL.DEF II.PL-be_cruel.REDUP

‘The panthers are cruel.’

Based on the approach to gender in which agreement classes are considered in pairs, Eegimaa has ten main genders which are presented in

Table 4 below, and one inquorate gender (V/IV), i.e., a gender with very few members (Corbett 1991).

Table 4. The agreement classes of the Eegimaa noun class/gender system

Gender	SG				PL			
	DEM	PRO	ADJ	VP	DEM	PRO	ADJ	VP
I	<i>m-</i>	<i>m-</i>	<i>a-</i>	<i>(n)a-</i>	<i>bug-</i>	<i>bug-</i>	<i>gu-</i>	<i>gu-</i>
II	<i>y-</i>	<i>y-</i>	<i>e-</i>	<i>e-</i>	<i>s-</i>	<i>s-</i>	<i>su-/si-</i>	<i>su-/si-</i>
III	<i>b-</i>	<i>b-</i>	<i>bu-/bi-</i>	<i>bu-/bi-</i>	<i>w-</i>	<i>w-</i>	<i>u-</i>	<i>u-</i>
IV	<i>f-</i>	<i>f-</i>	<i>fu-/fi-</i>	<i>fu-/fi-</i>	<i>g-</i>	<i>g-</i>	<i>gu-</i>	<i>gu-</i>
V/IV	<i>g-</i>	<i>g-</i>	<i>gu-</i>	<i>gu-</i>	<i>g-</i>	<i>g-</i>	<i>gu-</i>	<i>gu-</i>
V	<i>g-</i>	<i>g-</i>	<i>gu-</i>	<i>gu-</i>	<i>w-</i>	<i>w-</i>	<i>u-</i>	<i>u-</i>
VI	<i>j-</i>	<i>j-</i>	<i>ju-/ji-</i>	<i>ju-/ji-</i>	<i>m-</i>	<i>m-</i>	<i>mu-</i>	<i>mu-</i>
VII	<i>ñ-</i>	<i>ñ-</i>	<i>ñu-/ñi-</i>	<i>ñu-/ñi-</i>	<i>w-</i>	<i>w-</i>	<i>u-</i>	<i>u-</i>
VIII	<i>t-</i>	<i>t-</i>	<i>tu-/ti-</i>	<i>tu-/ti-</i>				
IX	<i>d-</i>	<i>d-</i>	-	<i>du-/di-</i>				
X	-	<i>n-</i>	-					

4.1.2 Noun class semantics

There is much controversy as to whether noun class systems are semantically motivated synchronically in Niger-Congo languages. The scepticism surrounding noun class semantics

is often fuelled by observations that nouns in semantic fields such as body parts and plants are found in different classes. Recent research has shown, sometimes using Prototype Theory, that semantic categorization is synchronically active in noun class systems in both Bantu (e.g. Contini-Morava 1997) and Atlantic languages (e.g. Breedveld 1995). In this section I present aspects of my previous findings on Eegimaa noun class semantics (see Sagna 2008; Sagna 2012)¹⁵ by arguing the following:

- Noun classes are associated with semantic content (Sagna 2011a: 2).
- Shape and size are encoded in the Eegimaa noun class system.¹⁶ This is shown by the integration of loanwords, the classification of body parts and the formation of augmentatives.
- Culture-specific principles also play a role in the semantic categorization of nouns in Eegimaa.

4.1.2.1 Shape-based classification of Eegimaa nouns

Eegimaa nouns denoting round and flat entities such as objects, body parts, and parts of things such as plants are assigned to the classes *fu-/gu-* and *ga-/u-* (see (19) and (20) respectively).

(19)	fu-la	‘buttock’	fu-how	‘head’
	fu-ttun	‘penis’	gu-ffot	‘testicles’
	fi-lej	‘tail’	fu-boŋ	‘thigh’

(20)	ga-rab	‘cheek’	ga-nnu	‘ear’
	ga-lefej	‘palm’	ga-pol	‘skin’
	ga-toj	‘leaf’	ga-pal	‘bark’

Nouns denoting fruits take the prefix pair *fu-/gu-* because of the round shape of fruits, not because there is a class for fruits. This is illustrated with the tree-fruit distinctions in (21).

bú-kkaju	‘cashew tree’	fû-kkaju	‘cashew fruit’
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¹⁵ See these works also for an account of the different semantic categories for humans and liquids.

¹⁶ See Cobbinah (2013) and Watson (2015) for similar findings in Bainounk Gubêcher and Jóola Kujireray respectively.

- (21) bu-mangu ‘mango tree’ fu-mangu ‘mango’
bu-ppapa ‘papaya tree’ fu-ppapa ‘papaya fruit’

4.1.2.2 Three semantically distinct augmentatives

There are three semantically distinct augmentatives in Eegimaa. They are formed by class shift, as is typical in North-Central Atlantic and Bantu noun class systems (Di Garbo 2014: 147), and express semantic differences in size and also shape. The prefix pair *ga-/u-* is used to derive augmentative and derogatory meanings, as illustrated in (22).

- (22) fu-how ‘head’ ga-how ‘big/ugly head’
fi-rerum ‘tongue’ gá-rerum ‘big/ugly/wide tongue’
bu-tum ‘mouth’ ga-tum ‘big/ugly/wide mouth’

Augmentatives formed with the prefix pair *fu-/gu-* express roundness (fatness or thickness) and are the only types of augmentatives where size and shape are combined (see example (23)).

- (23) ga-ñen ‘hand’ fi-ñen ‘big/fat hand’
a-ññil ‘child’ fi-ññil ‘big/fat child’
ga-hait ‘paper’ fu-hait ‘big/thick sheet of paper’

The third augmentative category describes entities of enormous size (see (24)) using the prefix pair *bu-/u-*.

- (24) fu-how ‘head’ bu-how ‘enormous head’
é-ñundu ‘nose’ bú-ñundu ‘enormous nose’
é-fulum ‘backside’ bú-fulum ‘enormous backside’

4.1.2.3 Loanwords and their semantic integration

Sagna’s (2008) study of the integration of 133 loanwords showed that there are three ways by which loanwords are integrated into Eegimaa:

- Phonological integration, as with *si-garet* ‘cigarette’, which takes the prefix *si-* based its similarity with the initial syllable of the loanword ‘cigarette’.
- Default integration, whereby most borrowed nouns are put into the default class.
- Semantic integration with shape being the main criterion

Examples of the third type of integration are loanwords in the morphological class *fu-/gu-* (15.8%) denote prototypically round (spherical) or less round objects (see (25)). Those having a clear flat and thin shape are directly integrated into the morphological class *ga-/u-*¹⁷ (22.6%) (see (26)). Other semantically-based integrations, not discussed here due to space restrictions (Sagna 2008; 2012 for a detailed account), include nouns of human denotation (11.3%), trees (5.3%), and paired entities (1.5%). Note that loanwords assigned to the default class make up 43.6% of all borrowed words.

- | | | | | |
|------|------------|------------------|---------------|------------------|
| (25) | fu-baloŋ | ‘football’ | fû-ru | ‘wheel’ |
| | fû-ttuyo | ‘pipe’ | fu-vvolan | ‘steering wheel’ |
| | fu-rulo | ‘roll’ | fî-serkal | ‘rim’ |
| (26) | ga-kkart | ‘card’ | ga-pposter | ‘poster’ |
| | ga-planche | ‘plank’ | ga-bbache | ‘tarpaulin’ |
| | ga-ffay | ‘sheet of paper’ | ga-pparabrise | ‘windscreen’ |

4.1.2.4 The semantics of collectives

The prefix *ba-* is used productively as a ‘diminutive collective’ with count nouns (including loanwords) to describe assemblages of small entities viewed as a unit, as exemplified in (27).¹⁸

- | | | |
|------|------------------------------------|----------------------|
| (27) | ba-abut | bu-taf-ol |
| | CLba-ant(III.SG) | III.SG-sting-3SG.OBJ |
| | ‘A group of small ants stung him.’ | |

Another collective category is the unproductive ‘swarm collective’, which is expressed by the combination of the prefix *fa-* with nouns denoting insects such as bees, locusts, and ants that live in swarms (see example (28)).

¹⁷ Consonant clusters are not permitted in Eegimaa. In these examples, the nouns containing clusters are not fully integrated. Their transcription represents the way they are pronounced by the bilingual French speakers from whom the data were collected.

¹⁸ Collective markers are also markers of basic number values. They are glossed as singular because in most of their occurrences the prefixes are used as singular markers. Note that I do not use the term ‘triad’ (see Cobbinah 2013; Watson 2015) because not all nouns expressing collective meaning are involved in singular/plural/collective relations.

- (28) fa-abut fu-taf-ol
CLfa-ant(IV.SG) IV.SG-sting-3SG.OBJ
‘A swarm of ants stung him.’

The third kind of collective marker is expressed (productively) by means of the prefix *e-* with nouns denoting humans (including loanwords) who constitute a cohesive unit (a colony), as exemplified in (29). These include language communities, identity groups, people of the same origins, and professionals in modern jobs, e.g. *e-muse* ‘teachers’. Nouns denoting human colonies in Eegimaa are hybrid nouns, in the sense that they trigger different gender or number feature values in the plural. They exemplify culture-bound classifications and their ‘multiple agreements’ reflect multiple semantic categorizations (see Sagna 2012 for details).

- (29) é-jjola yayu gu-añ-e-añ e-mmano
CLE-jóola(II.SG) II.SG.DEF I.3PL-cultivate-HAB-REDUP CLe-rice(II.SG)
‘The Jóola people grow rice.’

The prefix *e-* is also used as a collective marker for nouns denoting colonizing plants, which grow as colonies as in (30), but these plant-denoting nouns never occur as hybrids.

- (30) e-rarah yayu e-çel-e
CLE-*Ipomea.asarifolia*(II.SG) II.SG.DEF II.SG-die-CPL
‘The *Ipomea asarifolia* colony of grass has died.’ (ss20040412_AS)

To summarize this section, semantics is still productive in Eegimaa noun classes. Where semantic categorization is still relevant, the classification of nouns is based on shape and size, as seen with loanwords.

4.1.3 Nominal inflectional suffixation

4.1.3.1 Possessive suffixes

Possessive suffixes attach to the possessum when the possessor is human, as shown in (31). Eegimaa distinguishes inclusive and exclusive first person plural.

(31)	Singular	Plural
	a-ppal-om ‘my friend’	a-ppal-olal ‘our friend (INCL)’
		a-ppal-oli ‘our friend (EXCL)’
	a-ppal-i ‘your friend’	a-ppal-ul ‘your friend’
	a-ppal-ol ‘his/her friend’	a-ppal-il ‘their friend’

With non-human possessors, the possessive pronoun *CL-o*, which shows agreement in gender and number with the antecedent noun, is used as a possessive marker. Example (32) shows a full NP, which is replaced by a pronoun in example (33).

(32)	bu-roŋ	sí-be	sasu
	CLbu-life(III.SG)	CLsu-cow(II.PL)	II.PL.DEF
	‘The life of the cows’		

(33)	bu-roŋ	s-o
	CLbu-life(III.SG)	II.PL-PRO
	‘Their (non-human) life’	

4.1.3.2 The associative plural suffix *-i*

Eegimaa has an associative plural suffix, which attaches to proper names (see (34)), personified non-human entities (35), and kin terms (36). The typical meaning of associative plurals is ‘X and associates’ (Daniel & Moravcsik 2013; Corbett 2000), where X stands for the main referent of a heterogeneous group. In (35), for example, the group is composed of a named animal and other animals of different kinds. Eegimaa singular nominals, which take the associative plural, trigger plural agreement, as can be seen in examples (34) to (36).

(34)	Ámbulat-i	gu-mund-e	gu-jow
	Ámbulat(I.SG)-ASSOC	I.3PL-do_first-CPL	I.3PL-go
	‘Ámbulat and his companions were the first to go.’(Part-Obsv-2015)		

(35)	Já-nuhureŋ-i	googe	ban	gu-kkan	bu-ffutor
	CLja-animal(I.SG)-ASSOC	I.3PL.say.CPL	IMM.FUT	I.3PL-do	CLba-association(III.SG)
	‘Animal and his companions decided that they would form an association.’(Jibas2003)				

(36)	pay-om-i	gu-mund-e	gu-jow
	father(I.SG)-1SG.POSS-ASSOC	I.3PL-do_first-CPL	I.3PL-go

‘My father and his companions were the first to go.’

4.1.3.3 The inactualis nominal TAM suffix *-en*

The suffix *-en* combines with nouns (and also verbs, as discussed in §0 below) and functions as a nominal tense marker expressing the meaning of ‘past’ (see Nordlinger and Sadler 2004 for a typology of nominal tense systems). For example, it can attach to a noun like *yaŋ* ‘house’, as in (37), to indicate a ‘former’ function.

- (37) *dáuru* *y-aŋ-en*
 this CL_E-house-INACT
 ‘This is a former house.’

In possessive constructions, it attaches to the head (the possessum) and expresses an alienability contrast (Haspelmath, To appear) with the meaning of ‘former’. With kinship terms, it combines with nouns denoting relatives by marriage (see (38)a), where the relationship can be terminated, but not with consanguineal kinship terms as in (38)b. The only way (38)b can be interpreted is in a joking context.

- (38) a. *aar-en* Nestor b. *??a-ññol-en* Nestor
 [CL_A-]wife-INACT Nestor CL_A-child- INACT Nestor
 ‘Nestor’s ex-wife’ ‘Nestor’s former child.’

The inactualis is not acceptable with body part terms even in the case of amputation (see (39)b). It is acceptable, however, in constructions where a relationship of ownership can be terminated, as in (39)a. Without the *-en* suffix, (39)a would mean ‘Nestor’s house’.

- (39) a. *y-aŋ-en* Nestor b. **ga-ñen-en* Nestor
 CL_E-house- INACT Nestor CL_{ga}-hand-INACT Nestor
 ‘Nestor’s former house’ ‘Nestor’s former hand’.

4.1.4 Nominal suffixal derivation

4.1.4.1 The life stage suffix *-e*

The suffix *-e* is an unproductive derivational suffix, which has been found on the three nouns presented in (40), used to denote life stages.

- (40) fi-ññil-e 'childhood'
fu-pput-e 'early childhood'
fu-ffan-e 'adulthood'

It is productive when used with stative verbs (see (41)) to derive abstract nouns describing a state or condition that the verb refers to.

- (41) ma-pul-e 'rot/that which is rotten'
má-sup-e 'hot part/that which is hot'
má-ssum-e 'good//that which is good'

4.1.4.2 Argument nominalization

The main argument nominalizations (see Sagna (2008) for details) include agentive nouns formed with the suffix *-a* (42); instrumental nominalizations formed with the suffix *-úm* (43); manner nominalizations formed with the circumfix *ba-...-er* (44); and abstract noun formation with the suffix *-ay* (cf. (45)).

- (42) á-kkuj-a 'wrestler' a-rem-a 'drinker'

- (43) fi-hiç-um 'pen' fú-rovv-um 'seat'

- (44) ba-lluj-er 'manner of looking' ba-bog-er 'manner of dancing'

- (45) e-ssum-ay 'joy' ma-mandiñ-ay 'the Mandinka way'

4.2 Non-finite verbs and their overt classification

Eegimaa non-finite verbs are formed using several of the noun class prefixes found on nouns. This phenomenon is illustrated in (46) and (47), which show that subject markers like *na-* and the noun class prefix *ba-* alternate in the same slot.

- (46) Appu na-vvu-e e-ssal yayu
Appu(I.SG) REAL.I.3SG-sweep-CPL CL_e-hall(II.SG) II.SG.DEF
'Appu has swept the village hall.' (ss20140404_AmT)

- (47) Appu na-ban-e ba-vvu e-ssal yayu
 Appu(I.SG) REAL.I.3SG-finish-CPL CLba-sweep CLe-hall(II.SG) II.SG.DEF
 ‘Appu has finished sweeping the hall.’ (ss20140404_AmT)

In addition to taking different types of prefixes, Eegimaa non-finites differ from their finite counterparts in that TAM markers can be found only on finite verbs, as in (46), but not on non-finite verbs. Syntactically, non-finite verbs can take objects just like their finite counterparts as shown in examples (48) and (49), but non-finite verbs occur after complement-taking predicates and cannot function as the main verbs in a clause, while the finite counterparts can.

We can see the use of prefixes with both nouns and verbs in (48) and (49). The prefix *e-* is attached to the non-finite verb *e-kkotten* ‘smoke out’ in (48), and to the noun *e-ssal* ‘hall’ in (49). Likewise, the prefix *ba-* attaches to a noun in *ba-hola* ‘midges’ (48), whereas in (49) it is found with the non-finite verb *ba-vvu* ‘sweep’.

- (48) Appu umu ni e-kkotten ba-hola babu
 Appu(I.SG) COP.I.SG.MED PREP CLe-smoke_out CLba-midge(III.SG) III.SG.DEF
 ‘Appu is chasing midges with smoke.’

- (49) Appu na-ban-e ba-vvu e-ssal
 Appu(I.SG) REAL.I.3SG-finish-CPL CLba-sweep CLe-hall(II.SG)
 ‘Appu has finished sweeping a hall.’ (ss20140404_AmT)

In (50) and (51), the prefixes *ma-* and *ga-* are used with the non-finite verbs ‘drink’ and ‘rake up’ respectively. Note that the combination of prefixes with different roots on non-finite verbs is lexically determined. So the prefixes *ma-* and *ga-* cannot alternate on the same verb.¹⁹

- (50) Nestor na-kke Gájjigay ma-rem ga-jjo
 Nestor(I.SG) REAL.I.3SG-go Gájjigay CLba-drink CLga-mead(V.SG)
 ‘Nestor has gone to Gájjigay to drink mead.’ (Songs_Pop)

¹⁹ The use of several markers to form non-finite verbs (‘infinitives’ or ‘verbal nouns’, depending on the author) has been reported in Jóola Kwaatay (Kennedy 1964), Jóola Fógny (Sapir 1965), Eegimaa (Bassène 2007; Sagna 2008), and in neighbouring languages like Bainounk Gubêcher (Cobbinah 2013). This suggests that this phenomenon may be an areal feature.

- (51) aare-aw na-kkumasi-e ga-rato ma-fos mamu
[CLa]woman-I.SG.DEF REAL.I.3SG-begin-CPL CLga-rake_up CLma-weed(VI.PL) VI.PL.DEF
‘The woman has started raking up the grass.’

Typologically, non-finite verbs occur after complement-taking predicates such as desiderative (‘want’) verbs and phrasal-aspectual verbs (‘start, continue, finish’) (Noonan 2007; Haspelmath 1989; Koptjevskaja-Tamm 1993). They have both verbal properties, as in (52), where *ja-ssaw* ‘hunt/hunting’ occurs as a verb taking an indefinite plural object; and nominal properties, as in (53), where it occurs in argument position as a subject and triggers gender and number agreement on the verb.

- (52) Appu na-hal-e ja-ssaw si-tahalla
Appu(I.SG) REAL.I.3SG-stop-CPL CLja-hunt CLsu-gazelle(II.PL)
‘Appu has stopped hunting gazelles.’(ss20140404_AmT)

- (53) googe ja-ssaw nahi ji-lalat
I.3PL.say.CPL CLja-hunt(VI.SG) HAB VI.SG-refuse.redup
‘They say that hunting brings bad luck.’(ss20090512_Jassaw)

There are possible alternations between prefixes on the same verbal stem. These alternations are only attested between the prefix *e-* (the default marker with nouns) and the other prefixes, for example *ba-*, *ga-*, and *ma-*. In a broad characterization of these alternations, I argue (following Sagna (2013)) using Hopper and Thompson’s (1980; see also Næss 2007) terms, that when alternations are permissible, that the prefix *e-* is used to express high transitivity (e.g. definiteness, telicity, specificity, punctuality), whereas the other prefixes like *ba-*, *ga-*, *ma-* or *ja-* are preferred in the expression of low transitivity (e.g. indefiniteness, atelicity, non-specificity, durativity). In example (54), the non-finite verb takes the prefix *e-* and a definite singular object that refers to a specific entity. In general, the prefix *e-* is strongly preferred for the description of events which are construed as individuated and as having an inherent endpoint. In this example, the activity has a built-in goal, which will be reached when the woman has weeded the field in question from beginning to end. In example (55), on the other hand, the prefix *ba-* is used with the non-finite verb in an objectless clause. Here the event is not individuated; there is no built-in endpoint to the activity described by the verb. So the activity may be carried out on any number of fields for an undefined period.

- (54) aare ahu na-kkumasi-e é-fosul ga-al gagu
[CLa]woman(1.SG) 1.SG.DEF REAL.1.3SG-begin-CPL CLe-weed CLga-furrow(V.SG) V.SG.DEF
‘The woman has begun weeding the furrow.’ (ss20130819_RB)

- (55) aare ahu na-kkumasi-e bá-fosul
[CLa]woman(1.SG) 1.SG.DEF REAL.1.3SG-begin-CPL CLba-weed
‘The woman has begun weeding.’ (ss20130819_RB)

The fact that several noun class markers are used to form non-finite verbs suggests a morphological classification of these non-finite verbs. I argue that Eegimaa has a system of overt verb classification, which is defined as a phenomenon whereby ‘verbs and/or the events they refer to are overtly categorized into types the grammatical means’ (McGregor 2002: 1-2).

The type of overt verb classification found in Eegimaa is a system that operates at two levels. The first level is shown by alternations between the prefix *e-* and other prefixes like *ba-* and *ja-*. Generally, high transitivity (e.g. individuation) is expressed using the prefix *e-*, while low transitivity (e.g. non-individuation) is expressed with prefixes like *ba-*. The second level may be called ‘within low transitivity’ and reflects a categorization of different kinds of events (Schultze-Berndt & Sagna 2010; see also Cobbinah 2013; and Watson 2015 for similar conclusions). On this level, the different prefixes used with non-finite verbs indicate different semantic categories. For example, the prefix *ba-* is used to express multiplicity of actions and participants, showing parallels with its use as a diminutive collective marker in the nominal domain to express multiplicity of entities. As for the prefix *ma-*, this is generally used with verbs that refer to unbounded events such as bodily processes (e.g. verbs of ingestion and digestion). The categorization of unbounded events with the prefix *ma-* parallels that of non-count nouns denoting unbounded entities like liquids and masses in the nominal domain, as argued in Schultze-Berndt & Sagna (2010) and Sagna (2017).

4.3 Verbal morphology

The minimal structure of the verbal word in Eegimaa is prefix+stem, as in the imperative *u-tiñ* ‘eat (2SG)’. The maximal structure of verb is broadly characterized in the position class diagram in §4.3.1 below.

4.3.1 Verbal morphology schema

The diagram presented here is not intended as a complete fine-grained presentation of the suffix slots. Rather it is provided to give the reader a sense of the complex structure of the verbal morphology. All the slots presented here can be filled on a single verb. Note that Safir and Bassene (2014) provide a different and more detailed analysis of the affix ordering rules in Eegimaa.

Table 5. Broad characterization of the morphological structure of the Eegimaa verb

sm	Verb root	Deriv1	Deriv2	Deriv3	tam	ven	neg	om/pass	redup
----	-----------	--------	--------	--------	-----	-----	-----	---------	-------

The diagram shows that in the finite form of the verb, the verb root is preceded by the subject marker, and followed by different verb extensions. As shown in (56) and (57), the verb root (in boldface) is followed by the causative suffix *-en*, which fills a slot (Deriv1) that can also be occupied by the middle suffix *-o*. The second slot (Deriv2), which is filled by the reciprocal suffix *-or* in the examples given here, can also be filled by the reflexive *-oro*. It is followed by the ‘anticipative’ suffix, which occurs in the Deriv 3 slot and which describes an event which took place earlier, before a given time. The TAM slot is filled by suffixes such as the inactualis/non-factual marker *-en* and the completive marker *-e*. The ‘VEN’ slot is filled by the venitive suffix *-ul* ‘towards the speaker’ or the venitive completive *-ulo* ‘completed before moving towards the speaker’. In a negation construction, as in example (56), the negative suffix *-at* must follow the venitive if they co-occur, followed by the passive suffix *-i*. Depending on the context, the object marker can occur in the slot where the passive is found.

(56) si-vval	sasu	sú-hol-en-or-ali-en-ul-at-i
CLsu-stone(II.PL)	II.PL.DEF	II.PL.DEF-stick-CAUS-REC-ANTIC-INACT-VEN-NEG-PASS

‘The stones were not stuck together earlier’ (ss201505012_IT)

In case of verb reduplication in an affirmative clause, the venitive or venitive completive can be followed by an object marker like *-so* and the reduplicated stem (e.g. *-hol-en-or* ‘stick together’), with the Deriv1 and Deriv2 slots also filled. This is exemplified in (57), where the reduplicated verbal stem is in boldface.

gu-**hol-en-or**-ali-en-ulo-so-**hol-en-or**

- (57) II.PL.DEF-STICK-CAUS-REC-ANTIC-INACT-VEN.CPL-II.PL.PRO-STICK-CAUS-REC
'They stuck them together early (and came back)'

As pointed out above, the examples above are only intended to show the complexity of Eegimaa verbal morphology rather than provide a full account of the structure of the verb.

4.3.2 Verbal prefixes

4.3.2.1 Subject markers

In their finite form, verbs take subject markers, which, in the third person, show agreement in gender, number and person with an antecedent noun that may or may not be present in the clause (see (58) and (59)).

- (58) a-ppal-om a-let
CLA-friend-1SG.POSS(1.SG) I.3SG-not_be
'My friend is absent.'

- (59) a-let
I.3SG-not_be
'S/he is absent'

4.3.3 Verb extensions

4.3.3.1 Summary of verb derivational suffixes

The most common Eegimaa derivational suffixes are summarized in Table 6. The verb extensions presented here include those used in valence changing operations like the passive, which, strictly speaking, may not be classed as derivational because they do not create new lexemes (Spencer 2013).

Table 6. The most common verb extensions

Extensions	Label	Examples	Gloss	Translation
-úl	Venitive	é-pur-ul	CLe-go.out-VEN	'come out'
-ul	Reversative	e-gub-ul	CLe-cover-REV	'uncover'
-úm	Directive	é-jow-um	CLe-go-DIR	'go through'

-áli	Anticipative	é-kkan-ali	CLe-do-ANTIC	‘do early’
-akken	Repetitive	é-ssil-akken	CLe-cook-REP	‘cook another time’
-en	Causative	e-rokk-en	CLe-work-CAUS	‘make work’
-o	Middle	e-jal-o	CLe-unfasten-MID	‘unfasten’
-or	Reciprocal	bu-jug-or	CLbu-see-RECIP	‘see each other’
-oro	Reflexive	e-kkan-oro	CLe-do-REFL	‘do for oneself’
-i	Passive	e-saen-i	CLe-burn-PASS	‘it has been burnt’

4.3.3.2 Pluractional verbs

Eegimaa has an unproductive derivational strategy of reduplication, as exemplified in (60) where the stems are in boldface. The derived reduplicated lexemes are ‘pluractional’ verbs which describe a multiplicity of actions (Newman 1990: 53-54).

- (60) e-**tey** ‘run’ e-**teteyor** ‘run from place to place’
e-**ber** ‘laugh’ e-**bebberor** ‘spend time laughing’
e-**maen** ‘touch’ e-**mamaen** ‘palpate’

4.3.3.3 Derivation by stem alternation and prefix change

An interesting but as yet unstudied aspect of the lexicons of Jóola languages is a derivational process that combines [ATR]-based stem alternation and prefix change as exemplified in

Table 7. All the verbs in the “-ATR realization” section of the table take the prefix *e-* as a marker of non-finiteness. Nouns or action/state nominalizations like those on the right-hand side of the table (“+ATR realization”) are derived from the same verbal roots through a process that includes a change in prefix and a modification of the stem vowels from [-ATR] to [+ATR], as indicated by the acute accent on the first vowel of the derived words. This process cannot be captured by the synchronic phonological rules discussed in §3.1.1 above, nor by any morphological rule of concatenation. I leave this issue for future research.

Table 7. Alternations between [+ATR] and [-ATR] in derivations

-ATR realization		+ATR realization	
e-emor	‘to meet’	bí-emor	‘to encounter/confrontation’
e-yab	‘to receive/to marry’	bú-yab	‘to marry/marrying’
e-yab	‘to receive/to marry’	bú-yabo	‘to get married/marriage’
e-eh	‘to say’	bú-oh	‘saying’
e-eh	‘to say’	bú-ogor	‘to quarrel/quarrelling’
e-cceɲor	‘to debate/fight over something’	sí-cceɲor	‘debating’
e-omen	‘to assemble’	já-omen	‘gathering cattle’
e-llar	‘to work’	bú-llar	‘work/job’

4.3.3.4 Noun to verb causative formation with *-en*

The causative suffix *-en* can also be used less productively with noun stems to derive verbs with the meaning of ‘make an X’ or ‘put X on’, as in (61).

- (61) á-vvi ‘king’ já-vvi-en ‘enthroned king’
 é-lluh ‘mud’ é-llutt-en ‘put mud on’

4.3.3.5 The polysemous verbalizer *-et*

Verbs can be derived from nouns using the productive verbalizer *-et*. The meanings of the derived forms include ‘collect X’ or ‘be X’, as illustrated in (62).

- (62) e-soɲ ‘mad person/fool’ bu-soɲ-et ‘be a fool’
 fu-mangu ‘mango’ ga-mangu-et ‘pick up/collect mangoes’

4.3.4 Survey of the TAM system

The tense-aspect-mood marking of Jóola languages in general is very poorly understood, and its interaction with lexical aspect has never been subject to any investigation. In this section I provide a brief survey of the Eegimaa TAM system.

4.3.4.1 The completive *-e*

The completive *-e* (*l’accompli* in (Bassène 2007)) combines with dynamic verbs to describe events that are carried out thoroughly and to completion, and in which the object is totally affected (Bybee et al.1994). This is illustrated in (63), where the ‘baobab tree’ is totally affected by the action carried out (to completion) by the subject-agent *Jiñappu*.

- (63) Jiñappu na-bel-e bu-bah babu
 Jiñappu(I.SG) REAL.I.3SG-fell-CPL CLbu-baobab(III.SG) III.SG.DEF
 ‘Jiñappu has felled the baobab tree.’ (ss20140404_AmT)

With stative verbs, the suffix *-e* indicates emphasis or surprise, which is a property of completives (Bybee et al. 1994). This is exemplified in (64) below.

- (64) Jiñappu na-sojet-e
 Jiñappu(I.SG) REAL.I.3SG-be.stupid-CPL
 ‘Jiñappu is (really) stupid!’

4.3.4.2 The perfective aspect – reduplication

Verbal stem reduplication is a strategy used to express perfective meaning. With the perfective, the event may or may not be completed but is construed as a complete unit (Frawley 1992). This is exemplified in (65) and (66), which report bounded events with no real relevance to the current situation.

- (65) Jiñappu na-be-bet bu-bah babu
 Jiñappu(I.SG) REAL.I.3SG-fell-REDUP CLbu-baobab(III.SG) III.SG.DEF
 ‘Jiñappu has felled the baobab tree.’ (ss20140404_AmT)

- (66) Jiñappu na-bba-bah
 Jiñappu(I.SG) REAL.I.3SG-be.tall-be.tall
 ‘Jiñappu is tall.’ (ss20140404_AmT)

4.3.4.3 The venitive-completive *-ulo*

The venitive-completive *-ulo*, exemplified in (67), is a TAM suffix composed of the venitive *-úl* and the middle suffix *-o*. It indicates completion of a situation away from the here and now, but whose results are evident from the deictic centre.

- (67) Jiñappu na-lo-ulo
 Jiñappu(I.SG) REAL.I.3SG-fall-VEN.CPL
 ‘Jiñappu fell down where he was’ (he is here now).

4.3.4.4 The habitual suffix *-e*

The habitual suffix *e-* occurs only between the base and the reduplicant, as in (68). When habitual aspect is expressed by verbal morphology it is negated with the verbal suffix *-érit* (see (69)).

- (68) Jiñappu na-lo-e-lo
 Jiñappu(I.SG) REAL.I.3SG-fall-HAB-fall
 ‘Jiñappu (habitually) falls.’ (Epileptic crisis) (ss20140404_AmT)

- (69) Jiñappu a-lo-erit
 Jiñappu(I.SG) I.3SG-fall-HAB.NEG
 ‘Jiñappu does not (habitually) fall.’

The habitual aspect can also be expressed analytically using the free morpheme *nahi* and its negative equivalent *indi* (see (70) and (71)).

- (70) nahi gu-roddokk ni fuh
 HAB I.3PL-work.REDUP PREP [CLfu-]night(IV.SG)
 ‘They work at night.’(Part-obsv_2005)

- (71) indi gu-rokk ni bu-jom
 HAB.NEG I.3PL-work PREP CLbu-morning(III.SG)
 ‘They do not work in the morning.’

4.3.4.5 The inactualis TAM suffix *-en*

The inactualis suffix *-en* combines with both nouns and verbs, as pointed out in §4.1.3.1 above. With verbs, it expresses the meaning of past, and describes events or states which are no longer true, as in (72). In counterfactual conditional clauses, as in (73), it combines with the verbs in both the ‘if clause’ and the ‘then clause’, to refer to an event which failed to happen.

- (72) pay-om na-ju-en-e já-kkuj
 father(I.SG)-1SG.POSS REAL.I.3SG-be_able-INACT-CPL CLja-wrestle
 ‘My father was good at wrestling.’ (ss20140404_AmT)
- ú-pur-en-ut me pan u-jug-en-ol

(73) 2SG-go_out-INACT-NEG NEG FUT 2SG-SEE-INACT-3SG.OBJ

‘If you hadn’t gone out you would have seen him/her’

4.3.4.6 The anterior marker *ba-...er*

The prefix *ba-* and the suffix *-er* (also realized in free variation as *mba-...-er*)²⁰ jointly occur in the same verbal stems to express meanings which are cross-linguistically associated with the pluperfect (see (74)) or the future perfect (75). They signal past or future events which are relevant to another past or future event (see e.g. Bybee 1985).

(74) ni-ttog-ol o ba-yog-er
REAL.1SG-find-3SG.OBJ I.SG.PRO CLba-be_tired-PERF

‘(When I arrived) I found that he was already tired.’(Part-Obsv-2015)

(75) pan i-ttogol o ba-kkay-er
FUT REAL.1SG-find-3SG.OBJ I.SG.PRO CLba-leave-PERF

‘I will find him already gone.’

Though the prefix *ba-* and the suffix *-er* co-occur, I do not analyse them as TAM circumfixes, since the suffix *-er* can occur independently to describe anteriority comparable to the experiential perfect (Comrie 1976).

(76) nu-und-er-e a-cce gu-fog-e ni sí-ralam-ol?
REAL.2SG-hear-PERF-CPL I.SG-other I.3PL-bury-CPL PREP CLsu-money(II.PL)-3SG.POSS

‘Have you ever heard that someone has been buried with their money?’ (ss20130620_JBB)

4.3.4.7 Verbal negation

Verbal morphology is a common way to mark negation in African languages (Watters 2000; Childs 2003; Creissels et al. 2008). Three suffixes can mark negation in Eegimaa. (a) The suffix *-ut/-at* negates declarative sentences describing properties, as in (77), or occurrences, as exemplified in (78).

²⁰ As can be seen in example (76) the suffix *-er* can appear without the prefix *ba-* in the expression of anteriority. Thus, it should be distinguished from the construction *ba- ... -er* discussed in 4.1.4.2, which functions as a circumfix only in the context of the derivation of manner nominalization, a context in which the elements *ba-* and *-er* cannot be separated.

- (77) Appu a-bbag-ut
Appu I.3SG-be_tall-NEG

‘Appu is not tall.’

- (78) Appu a-tiñ-ut
Appu I.3SG-eat-NEG

‘Appu has not eaten.’

(b) The suffix *-érit* marks negation of habitual aspect, as exemplified in (79).

- (79) Appu á-tiñ-erit
Appu I.3SG-eat-NEG.HAB

‘Appu does not eat.’

Eegimaa also has (c) a negative suffix *-erut*, which may be glossed as ‘not yet’ and which expresses the idea that an event has not yet occurred, as in (80).

- (80) Appu a-tiñ-erut
Appu I.3SG-eat-NOT.YET

‘Appu has not eaten yet.’

4.3.4.8 The future

The future is formed with the particles *pan* and *ban*, which express ‘general future’ and ‘immediate future’ respectively (see (81) and (82)). Both general and immediate future expressions are negated using the particle *mati* (83).

- (81) pan i-lob ni ja-om
FUT 1SG-speak PREP mother(I.SG)-1SG.POSS

‘I will speak with my mother.’

- (82) ban i-lob ni ja-om
IMM.FUT 1SG-speak PREP mother(I.SG)-1SG.POSS

‘I am going to speak with my mother.’

- (83) mati i-lob ni ja-om
NEG.FUT 1SG-speak PREP mother(I.SG)-1SG.POSS

‘I will not/ I am not going to speak with my mother.’

5 Basic Syntax

This section provides a discussion of some aspects of the syntax of Eegimaa. I give an overview of NP structure and discuss verbal and non-verbal clauses. For a more detailed account of both simple and complex clauses in Eegimaa, see Bassène (2007) and Sagna (2008).

5.1 Noun phrases

5.1.1 General structure of the noun phrase

The basic structure of the NP in Eegimaa is presented in (84). A noun phrase consists minimally of a noun, with optional modifiers presented in brackets.

(84) (Pnl-modifier) N (DEF) (modifier) (DEF) (REL-CLAUSE)

Nominal modifiers include the indefinite determiner/pronoun *CL-cce*, which can be found in both pre-nominal (Pnl) and postnominal positions, showing agreement with the head of the NP, as exemplified in (85) and (86). There are minor semantic differences between the prenominal and postnominal uses of the determiner *CL-cce*, the clearest semantic distinction being that the latter tends to have an incremental meaning.

(85) u-sen-om bi-cce bu-ra
2SG-give-1SG.OBJ III.SG-other CLbu-bed(III.SG)

‘Give me another bed’ (different from the first one)

(86) u-sen-om bu-ra III.SG-other
2SG-give-1SG.OBJ CLbu-bed(III.SG) bi-cce

‘Give me yet another bed’ (different from and in addition to the first one)

All other NP modifiers such as definite articles, demonstratives, and adjectives occur in postnominal position. There is no indefinite article in Eegimaa. Eegimaa has a small category of around twenty non-derived adjectives, which occur in post-nominal position and must take a definite determiner in definite NPs, as in (87).

(87) ga-rafa gagu ga-vugul gagu ga-fum-o me
CLga-bottle(V.SG) V.SG.DEF V.SG-new V.SG.DEF V.SG.REL-break-MID SUBORD

‘The new bottle that broke.’ (ss2014-Introsp_009)

5.1.2 Possessive phrases

Possessive phrases are formed either by the juxtaposition of two nouns, as in (88), in which case the possessor follows the possessum (the head), or by inserting the connective *CL-ala* between the possessor and the possessum (89), showing agreement with the head of the possessive phrase.

- (88) fu-how bu-ra
CLfu-head(IV.SG) CLbu-bed(III.SG)
lit.: ‘a bed’s head (top)’

- (89) ju-ppu j-ala fi-ttit
CLju-bird(VI.SG) VI.SG-of CLfu-mangrove(IV.SG)
lit.: ‘a bird of the mangrove swamp’

5.1 Declarative clauses

Eegimaa has a fixed basic SVO constituent order. Subjects are obligatorily indexed on finite verbs with a subject marker which shows agreement in gender; number, and (third) person, with a controller noun which may or may not be present (see (90) and (91)). Transitive and intransitive clauses differ through the presence or absence of an object. Clausal negation is, as pointed out above, formed by adding the suffix *-ut* to the verb to negate properties and the occurrences of events.

- (90) Amisa **na**-bba-bah
Amisa(I.SG) **REAL.I.3SG**-be_tall-REDUP
‘Amisa is tall.’

- (91) Amisa **a**-mug-**ut** e-jjamen yayu
Amisa(I.SG) **I.3SG**-kill-NEG CLe-goat(II.SG) II.SG.DEF
‘Amisa has not killed the goat.’

5.1.1 Non-verbal predications

This survey of Eegimaa non-verbal predications draws on Dryer’s (2007) typology of non-verbal predicates. Nouns and adjectives function as predicates in non-verbal clauses with or without copulas. Nominal predicates do not show agreement with their subjects, but copulas do agree with subjects whenever they occur. Copulas are optional, with adjectival

and indefinite nominal predicates ('true nominal predicates' (Dryer 2007)), as exemplified in (92) and (93). Where copulas do occur, they follow the predicate.

- (92) Amisa é-gutum (naam)
Amisa(I.SG) CL_e-hooded.vulture(II.SG) (REAL.I.3SG.be)
'Amisa is a vulture.' (ss07_ufulunh-013)
- (93) fí-jjin fafu fu-vvugul (foom)
CL_{fu}-bull(IV.SG) IV.SG.DEF IV.SG.new (IV.SG-be)
'The bull is new.' (ss20150504_Yaag)

With definite nominal predicates (true equational predicates in Dryer's (2007: 233) terms) it is possible to reverse the order between the subject and the predicate, and any semantic difference is likely to be one involving topic and focus, as in (94) and (95). Here, the copula is obligatory and it must occur between the subject and the predicate.

- (94) Amisa aam me é-gutum yayu
Amisa(I.SG) I.3SG.be SUBORD CL_e-hooded_vulture(II.SG) II.SG.DEF
'Amisa is the vulture.'
- (95) é-gutum yayu yoom me Amisa
CL_e-hooded_vulture(II.SG) II.SG.DEF II.SG.be SUBORD Amisa(I.SG)
'The vulture is Amisa.'

All non-verbal predicative constructions are negated by obligatorily using the negative copula *let* 'not be', which agrees with the subject of the clause, as in (96). Such negative copulas are common in African languages (Creissels et al. 2008).

- (96) Amisa a-let é-gutum
Amisa(I.SG) I.3.SG-not_be CL_e-hooded_vulture(II.SG)
'Amisa is not a vulture.'

Locative clauses are formed by the obligatory use of the pronominal copula *u.CL.u* 'be located at', followed by a place name or preposition plus a noun denoting a location. This is exemplified in (97).

- (97) Honore umu tían
 Honore(1.SG) COP.1.SG.MED outside
 ‘Honore is outside.’ (Part-obsv_2015)

5.2 Imperatives and prohibitives

The imperative mood is formed by attaching a verbal prefix to the verbal stem, as in *u-jow* ‘go!(2SG)’ and *ju-jow* ‘go!(2PL)’; it is negated using the prohibitive marker *jambi*, as illustrated in (98) and (99).

- (98) jambi u-jow
 PROH 2SG-go
 ‘Don’t go! (SG)’

- (99) Jambi ju-jow
 PROH 2PL-go
 ‘Don’t go! (PL)’

5.3 Negation outside verbal morphology

Negation outside the verbal word includes the use of the negative copula *let* (discussed in 5.1.1) which is also used to negate constituents as exemplified in (100). It also includes negative particles such as the prohibitive particle *jambi* (see Section 5.2), the habitual negative particle *indi* (see (101)) and the negative marker for futurity *mati* exemplified in (102).

- (100) let-i fu-nah f-anur
 not_be-PASS CLfu-day(IV.SG) IV.SG-one
 ‘It is not one day.’
- (101) indi gu-lob
 HAB.NEG 1.3PL-speak
 ‘They not do not speak.’
- (102) mati gu-lob
 FUT.NEG 1.3PL-speak
 ‘They will not speak.’

6 Summary

The phonology of Eegimaa is characterized by the typologically unusual occurrence of geminate consonants before vowels that are long in related Jóola languages. Other interesting phonological characteristics discussed here include [ATR] vowel harmony, the backness harmony of high vowels, lenition, nasal assimilation, and degemination. Most of the paper has, however, focused on the Eegimaa morphology. Among the most interesting phenomena surveyed in this section are the noun class system, analysed using the gender approach of Corbett (1991). A brief overview of the shape-based noun class semantics has also been provided. The other salient morphological phenomena examined here include affix ordering, but also, and mainly, the typologically uncommon expression of nominal tense and alienability contrasts with the TAM suffix *-en*, and the overt classification of non-finite verbs using the same linguistic means as nouns, thus reflecting parallel semantic categorizations in the nominal and verbal domains. A discussion of the Eegimaa verbal extensions is also given, along with a diagram presenting the morphological structure of the verb. The brief overview of the syntax of Eegimaa focused on a discussion of different kinds of non-verbal predicative constructions and summaries of the NP structure and the simple clauses. Affix ordering and the semantics of the classification of non-finite verbs require further investigation.

Abbreviations

Roman numerals show Agreement classes/Genders (as defined in Corbett 1991). The sources of the examples are given on the free translation line. When no source is given, it means that as a native speaker I have provided the example myself.

ANTIC	Anticipative	NP	Noun phrase
ASSOC	Associative	OBJ	Object
ATR	Advanced Tongue Root	PASS	Passive
CAUS	Causative	PERF	Perfect
CL	Nominal morphological class	PL	Plural
COP	Copula	POSS	Possessive
CPL	Completive	PREP	Preposition
DEF	Definite (determiner)	PROH	Prohibitive
FUT	Future	REAL	Realis
HAB	Habitual	REC	Reciprocal
IMM	Immediate	REDUP	Reduplication
INACT	Inactualis	REFL	Reflexive
MED	Medial demonstrative	REL	Relative
MID	Middle voice	SG	Singular
N	Noun	SUBORD	Subordinate
NEG	Negation	VEN	Venitive

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