

The relative clause in Taglennaa (Kordofan Nubian)

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1. Introduction

Taglennaa (also known by its xenonym Kururu) is part of the Kordofan Nubian language continuum. Jakobi (in prep.) divides this continuum into two groups characterized by the length of the vowel of monosyllabic nouns. In Ilaku (Abu Jinuk), Kasha, Kaakmbee (Karko), Kunaku (Kujurja), Fanda, Wali, Kwashi (Kudur) and Warkimbee (Dilling), the vowel of a monosyllabic noun is long, in Uncunwee (Ghulfan), Dabri, Kaaral (Dabatna), Kadinnaa (Kadaru), Taglennaa (Kururu), and Dair this vowel is short.

The Kordofan Nubian languages in the Nuba Mountains, the Nile Nubian languages, and the Nubian languages of Darfur form the Nubian language family. According to Rilly's genetic classification (2010), Nubian, Nyima (Nuba Mountains, Sudan), Tama (Wadai, Chad), Nara (Eritrea) and the extinct Meroitic language of northeastern Sudan represent the northern branch of Eastern Sudanic, which is a primary branch of Nilo-Saharan.

The language name Taglennaa is composed of five morphemes, *Tagle=na ini=na aa*, which may be glossed as 'Tagle=GEN people=GEN language'¹, i.e., 'Tagle's people's language'. It is spoken in Tagle (Kororo on the map on p. 380), a village situated in the Kadero Hills, locally known as the Six Mountains (Ar. *al-ḡibāl al-sittah*), in the eastern Nuba Mountains of South Kordofan, Sudan.

¹ Abbreviations: 1, 2, 3 – 1st, 2nd, 3rd person; ACC – accusative; AN – agent noun suffix; APPL – applicative; ASP – aspect; CAUS – causative; COP – copula; DIM – diminutive; EXCL – exclusive; FRQ – frequentative; FUT – future; GEN – genitive; IMP – imperative; INCL – inclusive; INS – instrumental; LOC – locative; NEG – negation; PERF – perfect; PL – plural; PLR – plural S/P; PRO – subject pronoun; PRS – present; PRTC – participle; PST – past; Q – question marker; REL – relative marker; SG – singular; SM – subject marker; SNG – singular S/P; SSC – same subject converb.

Taglennaa is characterized by the following typological features. Its basic constituent order is Subject–Verb in intransitive clauses and Subject–Object–Verb in transitive clauses. The subject constituent is unmarked regardless of transitivity, the semantic-syntactic roles of other constituents are indicated by clitic case markers: =*gi* marks the object (glossed ACC), =*na* the Genitive (GEN), =*r* the Locative (LOC), and =*kɔ* the Instrument (INS) (for other functions of *kɔ* see section 5). Moreover, the subject is cross-referenced by person suffixes on the verb where they often fuse with the TAM morphemes.

The number (singular/plural) of arguments is often referenced by morphemes extending the verb root or by selecting suppletive roots (glossed SNG and PLR). With intransitive verbs, SNG/PLR refers to the number of the syntactic subject, with transitive verbs reference is to the object.

Using the labels S (subject of intransitive verb), A (subject of transitive verb) and P (object) one might say that Taglennaa aligns S with A with respect to nominal case marking, and S with P as regards marking the number value of core arguments on the verb.²

In view of the fact that grammatical relations are morphologically marked on the verb and on the nominal constituent, Taglennaa is both head-marking and dependent-marking on the clause level.³

Most data for this paper were provided by the first author of this paper (AI). Additional data were contributed by the first author's brother Gumma Ibrahim Gulfan and Al-Kheir Yaguub Haggaa, all of them mother-tongue speakers of Taglennaa. Cooperation between the two authors took place in Khartoum in 2011 and was continued later by email. The data are not tone-marked and the role of tone in relativization is as yet unknown.

Typological studies such as Dryer's "Order of relative clause and noun" (2011) and Comrie & Kuteva's (2011) description of relativization strategies show that there are two basic types of relative constructions, one where the relative clause follows the head noun and another one where the relative clause precedes the head noun. Languages employ different morphosyntactic devices to differentiate between the various syntactic-semantic roles of the head noun in the relative clause. According to Keenan & Comrie's Accessibility Hierarchy (1977), relativization strategies for core constituents (i.e. subject and object noun phrases) may differ from the ones employed for peripheral constituents. Core constituents are more easily accessible than peripheral constituents.

² The labels S, A and P are adopted from Comrie (2011).

³ For 'head-marking' and 'dependent-marking' see Nichols (1986).

This is the first study of relative constructions in Taglennaa. Special attention is given to the linear order of the head noun and the relative clause and to the morphosyntactic means by which Taglennaa differentiates between the syntactic-semantic roles of the head noun in the relative clause.

The paper is arranged as follows. Section 2 briefly deals with the morphophonemic changes triggered by the relative marker *-r*. Section 3 is concerned with the relativization of core constituents. The relativization of Beneficiaries and various peripheral constituents is considered in sections 4, 5, and 6. Section 7 summarizes the findings of this paper.

2. Morphophonemic changes triggered by *-r*

The relative clause marker *-r* is a suffix attached to the verb which occupies the final position in the relative clause and is fully inflected (rather than being a non-finite verb or participle).

A sequence of two distinct consonants turns into a geminate by anticipatory assimilation. This applies also to the relative marker *-r*, e.g., *-r=gi* → *ggi* (ACC), *-r=na* → *nna* (GEN). Apart from these phonological changes, *-r* triggers several morphophonemic changes.

(i) Verb roots ending in *r* such as *jir-* 'lie (SNG)', *jer-* 'lie (PLR)', *ηer-* 'cut', *ir-* 'give birth' delete the nasal of the 3rd person suffix of the Present tense *-un* when the relative marker *-r* attaches to that form. The inflectional suffix and the relative marker are assumed to fuse with the root, e.g. *jir-un-r* → *jir*, *jer-un-r* → *jer*, *ηer-un-r* → *ηer*, *ir-un-r* → *ir*. This rule does not appear to be obligatory. At least in case of *ηer-* 'cut' and *ir-* 'give birth', there are alternative 3rd person Present tense forms, *ηer-u-r* and *ir-u-r*.

(ii) In another group of verb roots ending in *r* such as *bir-* 'circumcise', *bir-* 'revolve', *er-* 'fear', *kir-* 'strangle', *ter-* 'change', *tir-* 'sow', *ur-* 'kill (SNG)' the fusion of the root with the 3SG/3PL marker of the Present tense *-un* and with the relative marker *-r* results in a form with a short vowel (and an extra-high tone, whereas the corresponding verb forms in paragraph (i) above have a high tone), e.g. *bir-un-r* → *bir*, *bir-un-r* → *bir*, *kir-un-r* → *kir*, *ter-un-r* → *ter*.

(iii) If the finite verb form ends in the velar nasal *ŋ*, the relative marker is deleted, as attested in the 2SG and 2PL forms: *kun-ir-ŋ-r* → *kun-ir-ŋ* and *kun-ir-uŋ-r* → *kun-ir-uŋ*. If the finite verb form ends in the alveolar nasal *n*, the relative marker triggers the deletion of that nasal, as attested in the 3SG and 3PL forms, *kun-un-r* → *kun-u-r*.

If the finite verb of the relative clause ends in a vowel, the relative marker simply attaches to that verb form, as attested in the 1SG and 1PL forms of the Present tense, *kuj-ire-r* and *kuj-iro-r*.

Apart from the changes triggered by *-r*, the verb in the relative clause does not differ from the verb in the main clause. Even the neutralisation of 3SG, 3PL and 1PL INCL verb forms, which occur in the Present (Table 1) and Future (Table 3), are mirrored by the corresponding relativized forms.

Table 1. Morphophonemic changes in Present tense forms

1SG	<i>id</i>	<i>tɪ</i>	<i>ɾɪ</i>	<i>kuj-irer</i>	(< <i>kuj-ire-r</i>)	<i>ak-un</i>
2SG	<i>id</i>	<i>tɪ</i>	<i>ar</i>	<i>kuj-iroŋ</i>	(< <i>kuj-iroŋ-r</i>)	<i>ak-un</i>
3SG	<i>id</i>	<i>tɪ</i>	<i>tɪ</i>	<i>kuj-ur</i>	(< <i>kuj-un-r</i>)	<i>ak-un</i>
1PL EXCL	<i>id</i>	<i>tɪ</i>	<i>ayi</i>	<i>kuj-iror</i>	(< <i>kuj-iro-r</i>)	<i>ak-un</i>
1PL INCL	<i>id</i>	<i>tɪ</i>	<i>ini</i>	<i>kuj-iror</i>	(< <i>kuj-iro-r</i>)	<i>ak-un</i>
~	<i>id</i>	<i>tɪ</i>	<i>ini</i>	<i>kuj-ur</i>	(< <i>kuj-un-r</i>)	<i>ak-un</i>
2PL	<i>id</i>	<i>tɪ</i>	<i>uyi</i>	<i>kuj-iruŋ</i>	(< <i>kuj-iruŋ-r</i>)	<i>ak-un</i>
3PL	<i>id</i>	<i>tɪ</i>	<i>tɪ</i>	<i>kuj-ur</i>	(< <i>kuj-un-r</i>)	<i>ak-un</i>
	person	that	PRO	look.at-PRS.SM.REL		sit-PRS.3
	the person at whom I am (you are, etc.) looking is sitting					

Table 2. Morphophonemic changes in Past tense forms

1SG	<i>id</i>	<i>tɪ</i>	<i>ɾɪ</i>	<i>kuj-er</i>	(< <i>kuj-e-r</i>)	<i>ak-un</i>
2SG	<i>id</i>	<i>tɪ</i>	<i>ar</i>	<i>kuj-oŋ</i>	(< <i>kuj-oŋ-r</i>)	<i>ak-un</i>
3SG	<i>id</i>	<i>tɪ</i>	<i>tɪ</i>	<i>kuj-umir</i>	(< <i>kuj-umi-n-r</i>)	<i>ak-un</i>
1PL EXCL	<i>id</i>	<i>tɪ</i>	<i>ayi</i>	<i>kuj-or</i>	(< <i>kuj-o-r</i>)	<i>ak-un</i>
1PL INCL	<i>id</i>	<i>tɪ</i>	<i>ini</i>	<i>kuj-or</i>	(< <i>kuj-o-r</i>)	<i>ak-un</i>
~	<i>id</i>	<i>tɪ</i>	<i>ini</i>	<i>kuj-amir</i>	(< <i>kuj-ami-n-r</i>)	<i>ak-un</i>
2PL	<i>id</i>	<i>tɪ</i>	<i>uyi</i>	<i>kuj-uŋ</i>	(< <i>kuj-uŋ-r</i>)	<i>ak-un</i>
3PL	<i>id</i>	<i>tɪ</i>	<i>tɪ</i>	<i>kuj-amir</i>	(< <i>kuj-ami-n-r</i>)	<i>ak-un</i>
	person	that	PRO	look.at-PST.SM.REL		sit-PRS.3
	the person at whom I (you, etc.) looked is sitting					

Table 3. Morphophonemic changes in Future tense forms

1SG	<i>id</i>	<i>tɪ</i>	<i>ɾɪ</i>	<i>kuj-ifa-rer</i>	(< <i>kuj-ifa-re-r</i>)	<i>ak-un</i>
2SG	<i>id</i>	<i>tɪ</i>	<i>ar</i>	<i>kuj-ifa-roŋ</i>	(< <i>kuj-ifa-roŋ-r</i>)	<i>ak-un</i>
3SG	<i>id</i>	<i>tɪ</i>	<i>tɪ</i>	<i>kuj-ifa-ar</i>	(< <i>kuj-ifa-an-r</i>)	<i>ak-un</i>
~	<i>id</i>	<i>tɪ</i>	<i>ini</i>	<i>kuj-ifa-ŋur</i>	(< <i>kuj-ifa-ŋun-r</i>)	<i>ak-un</i>

1PL EXCL	<i>id</i>	<i>ti</i>	<i>ayi</i>	<i>kujn-ifa-ror</i> (< <i>kujn-ifa-ro-r</i>)	<i>ak-on</i>	
1PL INCL	<i>id</i>	<i>ti</i>	<i>ini</i>	<i>kujn-ifa-ror</i> (< <i>kujn-ifa-ro-r</i>)	<i>ak-on</i>	
~	<i>id</i>	<i>ti</i>	<i>ini</i>	<i>kujn-ifa-ar</i> (< <i>kujn-ifa-an-r</i>)	<i>ak-on</i>	
~	<i>id</i>	<i>ti</i>	<i>ini</i>	<i>kujn-ifa-ɲur</i> (< <i>kujn-ifa-ɲun-r</i>)	<i>ak-on</i>	
2PL	<i>id</i>	<i>ti</i>	<i>uyi</i>	<i>kujn-ifa-ruŋ</i> (< <i>kujn-ifa-ruŋ-r</i>)	<i>ak-on</i>	
3PL	<i>id</i>	<i>ti</i>	<i>ti</i>	<i>kujn-ifa-ar</i> (< <i>kujn-ifa-an-r</i>)	<i>ak-on</i>	
~	<i>id</i>	<i>ti</i>	<i>ti</i>	<i>kujn-ifa-ɲur</i> (< <i>kujn-ifa-ɲun-r</i>)	<i>ak-on</i>	
		person	that	PRO	look.at-FUT-SM.REL	sit-PRS.3
		the person at whom I will look is sitting				

Two alternative forms exist for 1PL INCL in the Present and Past tenses, three in the Future tense. In the Future tense, there are also alternative forms for 3SG and 3PL. In the Past tense, the distinction between 1PL INCL and 3PL is neutralized; in Table 2 these forms are realized as *kujamin* in the main clause and as *kujamir* in the relative clause.

3. Relativization of core arguments

In this section, examples are provided illustrating the formation of relative clauses (enclosed in square brackets) by simply suffixing the relative marker *-r* to the finite verb of the relative clause. This strategy is attested by all kinds of subjects and objects, including the Recipient “indirect object” of the verb *ʃi-* ‘give’, see examples (10) and (11).

The examples offer several insights. (i) The head noun generally precedes the relative clause but there is also one example attesting the head noun following the relative clause, see (30a,b). (ii) The head is outside the relative clause. (iii) The relative clause does not require a pronominal element expressing the syntactic-semantic role of the head noun. That is, there are no relative pronouns such as English *who*, *which*, *whom*. (iv) The syntactic role of the head noun in the main clause is expressed by the presence or absence of case markers attached to the relative clause.

In (1), the head noun *ti* is the unmarked subject of the main clause, and it is taken up as the subject of the relative clause.

- (1) *ti* [*keer=ur* *jer*] *ɔna-ni*
 cow [cattle.pen = LOC lie.PLR.PRS.3PL.REL] mine-COP.3
 The cows which lie in the cattle pen are mine.

In (2), the head noun *ti* is the object of the main clause; its object status is marked by the ACC clitic =*gr* which follows the relative clause. Within the

relative clause, *tu* functions as subject. Since subjects are always indexed by a person suffix on the verb, the presence of the subject pronoun in the main clause is optional.

- (2) *(ɪyɪ) tu [kire = r jɛg] = gr kun-e-fa-re*
 (1SG) cow [stable = LOC lie.PLR.PRS.3PL.REL] = ACC look.at-PLR-FUT-1SG
 I will look at the cows which lie in the stable.

In (3) the head noun *ɪdʊ* is the subject of the main clause, which is taken up as the subject of a transitive relative clause. The object of the relative clause hosts the ACC case marker.

- (3) *ɪdʊ [katʊ = gr ʃʊm-mɪ-r] bar-bol-mi-n*
 woman [field = ACC weed-PST.3SG-REL] tire-ASP.SNG-PST-3SG
 The woman who weeded the field has become tired.

The sentences in (4) show the word order in the main clause with a lexical subject and a lexical object that is qualified by a relative clause. Example (4a) represents the unmarked order which is Subject – Object [relative clause] – Verb. In (4b) the main clause object together with its relative clause precedes the subject. This deviation from the unmarked SOV order puts the object constituent in focus. Separation of the head noun from the relative clause as in (4c) is not admitted, unless the whole main clause precedes the relative clause, as illustrated in (5).

- (4) a. *Ali ɪdʊ [katʊ = gr ʃʊm-mɪ-g] = gr onʃiŋ-ŋi-n*
 Ali woman [field = ACC weed-PST.3SG-REL] = ACC greet-PST-3SG
 b. *ɪdʊ [katʊ = gr ʃʊm-mɪ-g] = gr Ali onʃiŋ-ŋi-n*
 woman [field = ACC weed-PST.3SG-REL] = ACC Ali greet-PST-3SG
 c. **ɪdʊ-gr Ali [katʊ = gr ʃʊm-mɪ-g] = gr onʃiŋ-ŋi-n*
 woman Ali [field = ACC weed-PST.3SG-REL] = ACC greet-PST-3SG
 Ali greeted the woman who weeded the field.

In (5), the relative clause is separated from its head noun and follows after the main clause; the head noun *ɪlɪ* is case-marked as the object of the main clause and the postposed relative clause is also case-marked.

- (5) *Ali ɪlɪ = gr onʃiŋ-e-mi-n*
 Ali woman.PL = ACC greet-PLR-PST-3SG
 [katʊ = gr ʃʊr-amɪ-g] = gr
 [field = ACC weed-PST.3PL-REL] = ACC
 Ali greeted the women who weeded the field.

The head noun *id* functions as the subject of an intransitive relative clause in (6) and a transitive one in (7). In the main clauses *id* has a Possessor role marked by the clitic =*na* which attaches to the relative clause.

- (6) *id* [bol-*i=gi* *εr-ε-n*] = *na* *tujan*
 man [dog-PL = ACC fear.PLR-PRS.3SG-REL] = GEN children

fakk-ar-i-ni
 fear-AN-PL-COP.3

The children of a man who fears dogs are cowards.

- (7) *id* [fakk-*u-n*] = *na* *faal = or* *bol-i*
 man [be.fearful-PRS.3SG-REL] = GEN homestead = LOC dog-PL

bog-en
 bark-PRS.3

The dogs bark at the homestead of the man who is fearful.

The preceding examples show intransitive and transitive sentences whose subject and object constituents are modified by relative clauses in which the antecedent functions as subject. The relative clause is marked by the suffix *-r*, which is followed by the ACC case marker whenever the head noun functions as the object of the main clause.

The same strategy is also used for object relatives, i.e., relative clauses in which the antecedent functions as object. Object relatives are exemplified in Tables 1 to 3; the same construction occurs in (8).

- (8) *tuu* [kanen *etir-e-r*] *ta-min*
 child [past.time send-PST.1SG-REL] come-PST.3SG

The child that I sent some time ago has returned.

If the head noun (antecedent) of a relative functions as the object of the main clause, this is marked by the ACC clitic following the relative clause. This is true for subject relatives and for object relatives.

- (9) *id* [(*iyi*) *kun-e-g*] = *gi* *bid-i*
 man [(1SG) look.at-PST.1SG-REL] = ACC follow-IMP

Follow the man at whom I looked.

Both objects of the ditransitive verb *ti-* 'give' have ACC case marking (10a). The relativization of the Recipient (10b, 11) follows the same strategy as the one shown above for subjects and direct objects.

- (14) *tɛɛndu* [*ʊŋʊ kitʊ = gi fan-ɖi-re-g*] = *gi*
 girl.SG.DIM [this cloth = ACC buy.SNG-APPL-PRS.1SG-REL] = ACC

it-ta-rɛ
 marry-FUT-1SG

I will marry the girl for whom I am buying this cloth.

Locatives are generally marked by the enclitic =*r* (15a). However, locative Goal arguments may also be licensed by applicative verbs in which case they carry the ACC case marker (15b). There is a semantic difference between the two strategies: the LOC-marked Goal is indefinite, the ACC-marked APPL-licensed Goal is definite. Relativized Goal arguments are built on applicatives and do not formally differ from relativized Beneficiaries; see examples (15c) to (17).

- (15) a. *ayi too ɖejji = r ʃɛ-rɔ*
 1PL.EXCL place far = LOC go.PLR-PRS.1PL
 We are going to a distant place.
- b. *ayi too ɖejji = gi ʃɛ-n-irɔ*
 1PL.EXCL place far = ACC go.PLR-APPL-PRS.1PL
 We are going to the distant place.
- c. *too [ʃɛ-n-irɔ-r] ɖejji = n-ndi ʃɔ-n*
 place [go.PLR-APPL-PRS.1PL-REL] far = LOC-COP.3 be.there.SNG-PRS.3SG
 The place where we are going to is far away.
- (16) *katʊ [ar ayi = gi et-e-n-iro-r]*
 field [2SG 1PL.EXCL = ACC send-PLR-APPL-PRS.2SG-REL]

dɛ = na katʊ-a
 who = GEN field-Q

Whose field is it that you are sending us to?

The main clause in (16) contains two instances of *katʊ* ‘field’, one being the subject and the other the nominal predicate (“the field ... is whose field”).

In (17), the head of the relative clause is *too ʊŋʊ = r*, a complex noun phrase composed of the noun *too*, the demonstrative *ʊŋʊ* and the locative clitic =*r*. The inherently Source-oriented verb *ta-* ‘come’ is extended by the applicative marker *-n* which licenses the Goal constituent. In the main clause, *too ʊŋʊ-r* is a locative object which is shown by the ACC marker following the relative clause.

- (17) *too* *uŋu=r* [*ta-n-iro-r*]=*gi* *ini* *bii* *kɔ*
 place this=LOC [come-APPL-PRS.1PL-REL]=ACC people some INS
ak-mɔr-bɛl-jɛ-n
 sit-PLR-ASP.PLR-PRF-3PL

Some people have settled at this place which we are coming to.

5. Relativization of oblique arguments with *kɔ*=

The morpheme *kɔ* is known from various grammatical contexts:

- (i) =*kɔ* serves as an enclitic case marker for peripheral constituents, primarily those with an Instrument role; see (18) to (21).
 (ii) *kɔ*= is preposed to verbs resulting in fixed lexicalized combinations; see Table 4.
 (iii) -*kɔ* (and its allomorph -*cɔ*) is employed as a suffix deriving adverbs from adjectives and nouns; see Table 5.
 (iv) *kɔ* indicates the simultaneousness of events expressed by a converb and a finite verb (see Gulfan, this volume).

The different but presumably related meanings of *kɔ* and its occurrence in distinct grammatical contexts are called heterosemy (cf. Lichtenberk 1991).

- (18) *kɔkar=kɔ* *jil-ɪ*
 stone=INS throw-IMP
 Throw at it with a stone!
- (19) *ifi=kɔ* *aŋ-ir-i*
 hand=INS grab-SNG-IMP
 Grab it with (your) hands!
- (20) *tɛndu* *tiri-nɪ=gi* *kɔŋɛ=kɔ* *eŋ-e-nam-mi-n*
 girl.SG.DIM girl.PL-DIM.PL=ACC beauty=INS exceed-PLR-ASP-PST-3
 The girl exceeded the girls in beauty.
- (21) *tnna* *ɔkɔɔ=kɔ* *bag-i*
 3SG.GEN vicinity=INS pass-IMP
 Pass near to it. (lit. pass in its vicinity)

Table 4 shows some fixed *kɔ*=verb combinations. In some cases, e.g., *kɔda*- and *kufu*-, the connection has become so close that the phonological shape of the original root (*ta* → *da*) and preclitic (*kɔ* → *ku*) has changed.

Table 4. *kɔ* = verb

<i>ak-</i>	sit	<i>kɔ</i> = <i>ak-</i>	sit with, sit on
<i>jer-</i>	lie	<i>kɔ</i> = <i>jer-</i>	lie on
<i>fu-</i>	go (SNG)	<i>kɔ</i> = <i>fu-</i>	go with, go by (SNG)
<i>fu-</i>	go (SNG)	<i>kufu-</i>	take to, lit. go with (SNG)
<i>ta-</i>	come	<i>kɔda-</i>	come with, come by

The close connection between *kɔ* and the verb root has prosodic and grammatical motivations. It is common for a monosyllabic morpheme to attach to a polysyllabic host morpheme.⁴ Here the host is a verb and *kɔ* has become its proclitic (rather than a prefix which functions on the morphological level whereas a clitic works on the phrase or clause level). The proclitic *kɔ*= indicates that the verb has a grammatical relation to a peripheral constituent.

Table 5: *kɔ* as adverbializer

<i>kɛn</i>	good	<i>kɛŋkɔ</i>	well (adverb)
<i>bur</i>	strong	<i>bukkɔ</i>	firmly
<i>uggun</i>	loud	<i>ugguŋkɔ</i>	(speak) loudly
<i>kɔlal</i>	night	<i>kɔlalcɔ</i>	by night
<i>firin</i>	morning	<i>firiŋkɔ</i>	in the morning

The relativization of peripheral constituents with semantic roles such as Instrument, Location, Goal and Source requires, in addition to the suffixed relative marker *-r*, the proclitic *kɔ*= which immediately precedes the verb of the relative clause. This morpheme has a low tone and a [-ATR] vowel.

The following examples illustrate that the proclitic *kɔ*= assigns different semantic roles to the relativized peripheral constituent referred to by the head noun of the relative clause. The identification of a specific semantic role strongly depends on the semantics of the verb in the relative clause.

The head nouns in (22c) and (23) designate objects that are often used as instruments. *kɔ*= assigns an Instrument role to those head nouns, *kɔʔar* and *kɔkar*. These nouns are the subjects of the main clauses.

- (22) a. *eri* = *gi* *kɔʔar* = *kɔ* *ʃid-dɛ-mun*
 rope = ACC knife = INS cut-SNG-PST.3SG
 He cut the rope with a knife.

⁴ We are grateful to Gerrit Dimmendaal (p.c. 26-01-2012) for explaining the possible prosodic motivation for the behaviour of *kɔ* and its proclitic status.

The motion verb *ta-* (*taa-* in the Present tense) designates motion away from a source.⁵ Its Source argument is marked by the general locative clitic =*r* within a multiverb construction, see (27a). The corresponding relative clause in (27b) employs the preverbal clitic *kɔ=* pointing to a peripheral argument represented by the head noun *too*.

- (27) a. *ayi iri = n-ndi fɛ-I ta-rɔ*
 1PL.EXCL river = LOC-COP.3 be.there.PL-SSC come.from-PST.1PL
 We came from the river.
 (lit. we have been at the river and came from it)
- b. *too [ayi kɔ=fɛ-I taa-rɔ-r] ɖɛjji-ni*
 place [1PL.EXCL INS = be.there.PLR-SSC come-PRS.1PL-REL] far-COP.3
 The place where we are coming from is far away.
 (lit. the place where we have been and come from is far away)

The sentences in (28) provide another example where an argument that has the LOC marker =*r* in a main clause is represented by the clitic *kɔ=* when relativized.

- (28) a. *ɔŋʊ too = r ayi ee = gi ɖug-iro*
 this place = LOC 1PL.EXCL sorghum = ACC thresh-PRS.1PL
 We thresh sorghum in this place.
- b. *ɔŋʊ ter-ndi too [ayi ee = gi*
 this it-COP.3 place [1PL.EXCL sorghum = ACC
kɔ= ɖug-iro-r]
 INS = thresh-PRS.1PL-REL]
 Here is the place where we thresh sorghum.
- c. *too [ayi ee = gi kɔ= ɖug-iro-r]*
 place [1PL.EXCL sorghum = ACC INS = thresh-PRS.1PL-REL]
ɔŋʊ ter-ndi
 this it-COP.3

The place where we thresh sorghum, it is here.

The transfer verb *kufu-* ‘take to’ is a lexicalized fusion of the proclitic *kɔ=* and the motion verb *fu-* ‘go’. Its Goal argument is marked with the LOC clitic =*r* or its allomorph =*ɔr* as in (29a). The corresponding relative clause employs the applicative verbal derivation to point to the Goal argument, here represented by the head noun *kul* ‘well’.

⁵ The applicative derived from *ta-* designates motion towards a goal, cf. (17).

(29) a. *tɪ = ɡɪ* *kʊl-la-ɑɡul = ʊr* *kufu-nk-un*
 cows = ACC well-GEN-mouth = LOC take.to.SNG-FRQ-3SG
 He drives the cows to the well.

b. *kʊl* [*tɪ = ɡɪ* *kʊm-ɪ* *kufu-n-i-r*]
 well [cow = ACC guide-SSC take.to.SNG-APPL-PRS.3-REL]

dɛʝi = n-ndi *ʃɔ-n*
 far = LOC-COP.3 be.there.SNG-PRS.3

The well that he drives the cows to is far.

Examples (30a) and (30b) are interesting because the head noun *too = r* follows the relative clause. It is interpreted as the Location of the event described in the relative clause, and as the Goal of the event described in the main clause. In (30b), remarkably, *too = r* has an additional possessor role as indicated by the genitive case maker *= na* on the relative clause.

(30) a. [*tɪ id kɔ = ɑk-ʊ-r*] *too = r* *ʃu-ɲɔ-ndɛ*
 [that man INS = stay-PRS.3SG-REL] place = LOC go.SNG-PRF-NEG.3

b. [*tɪ id kɔ = ɑk-ʊ-r*] = *na* *too = r* *ʃu-ɲɔ-ndɛ*
 [that man INS = stay-PRS.3SG-REL] = GEN place = LOC go.SNG-PRF-NEG.3

I have never gone to the place where that man is living.

6. Relativization of temporal expressions

The preceding examples illustrate the use of *kɔ* with relativized peripheral constituents having a variety of semantic roles. Constituents having a Time role, however, are not attested with *kɔ*. Rather, the relative clause is marked by the compounded clitic *= n = dɔɔ* following the relativizer *-r*. Its elements are the genitive marker *= n* and the noun *tɔɔ* ‘top’.

In (31), the head of the relative clause is *too ʃiiri = r*, a phrase marked by the locative case marker *-r*. The verb of the relative clause is marked by the compound clitic *-r = n = dɔɔ* which assigns the Time role to the relativized constituent.

(31) *too ʃiiri = r* [*ta-rɛ-n = n = dɔɔ*]
 time early.morning = LOC [come-PST.1SG-REL = GEN = top]

ar ʃɔ-nnɔŋ
 2SG be.there.SNG-NEG.PST.2SG

In the early morning when I came, you were not there.

The head noun of the relative clause in (32), *kanʃm*, is a Time expression that it is not marked by the locative case marker =*r*.⁶ Again, the verb of the relative clause is marked by *-r=n=qɔɔ* assigning the Time role to the head of the relative clause. In the main clause *kanʃm* is an unmarked constituent.

- (32) *kanʃm* [Tagle=*r* ʃu-e-n=n=qɔɔ] *otu*
 last.year [Tagle=LOC go.SNG-PST.1SG-REL=GEN=top] water
 ʃe-nna-mi-n
 be.there.PLR-NEG-PST-3

Last year when I went to Tagle there was no water.

7. Findings

The paper shows that there is one basic relativization strategy recurring in all relative clauses. This strategy involves the verbal suffix *-r* that is attached to the inflected verb occurring at the end of the relative clause.

The head noun is outside of the relative clause. Most often the head noun precedes the relative clause (but see 30a,b).

Core arguments, i.e. subjects and objects do not require any additional morphological marking to be interpreted as being coreferential with the head noun of a relative clause. The recipient of the verb ‘give’ as well as objects licensed by the applicative verb extension behave in all respects like other (“direct”) objects: they are ACC marked in the main clause and leave no overt trace in the relative clause.

The paper further investigates relativization of several kinds of peripheral arguments:

- Relativization of arguments marked with the instrumental clitic =*kɔ* leaves the clitic stranded in pre-verbal position in the relative clause; see (22)-(26).
- The same proclitic *kɔ=* also appears when arguments marked with the LOC clitic =*r* are relativized; see (27)-(28).
- Use of applicative verbs is an alternative strategy for relativizing LOC marked Goal arguments of certain motion verbs; see (15)-(17) and (29).

⁶ The presence or absence of locative case markers on Time expressions is probably lexicalized (comparable to English ‘at night’, ‘in the morning’, ‘last year’).

- Time arguments in main clauses have various morphological markers including =kɔ (see Table 5). They are relativized by the compound clitic =n = dɔɔ following the relativizer -r; see (31)-(32).

The different amount of morphological “material” required for the relativization of core and peripheral arguments suggests that relative clause formation is sensitive to a hierarchy of grammatical relations. According to Keenan and Comrie’s noun phrase accessibility hypothesis (1979), core constituents are more easily accessible for relativization than oblique ones. This is confirmed by Taglennaa relative clauses.

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