This paper describes the morphosyntactic and semantic characteristics of clausal object complementation in the Great Lakes Bantu Language Ruuli (JE103). In addition to providing an overview of the complementation strategies in Ruuli, parallels will be drawn to constructions described for related languages as well as common cross-linguistic patterns in clausal complementation. Ruuli employs several different complementation strategies, including indicative, subjunctive, and infinitive constructions. Complement clauses can be either unmarked or marked with a complementizer, the most common of which is *nti*. These two options are also available for direct speech. Other less common complementizers, which cannot be used to introduce direct speech complements include *oba*, *nga* and *ni*. As individual complement-taking predicates do not allow for every complementation strategy, we will explore the semantic and morphosyntactic conditions which predict the choice of complement. To this end, we consider several predictors. We investigate the restrictions imposed by various complement-taking predicate types, e.g. knowledge predicates, phasal predicates and utterance predicates. Then we consider whether the complement expresses a proposition (a truth-valued meaning unit) or a state-of-affairs (a non-truth valued meaning unit) and whether the subject arguments in the two clauses are identical.

Keywords: Ruuli, Bantu languages, complementation, semantics

1. Introduction

This paper deals with clausal object complementation in the Great Lakes Bantu language Ruuli (also known as Ruruuli-Lunyala, ISO 639-3: ruc; JE103). We will analyze the features of the morphosyntactic and semantic characteristics of Ruuli complementation and compare them to those of other Bantu languages as well as to common cross-linguistic patterns in clausal complementation. Ruuli employs several different complementation strategies, including indicative, subjunctive, and infinitive constructions. Complement clauses can be either unmarked or marked with a complementizer, the most common of which is *nti*. These two options are also available for direct speech. Other less common complementizers are *oba*, *nga* and *ni*, which cannot be used to introduce direct speech. As individual complement-taking predicates do not allow for every complementation strategy and have preferences for specific complementation strategies, we will explore the morphosyntactic and semantic conditions which predict the choice of complement. To this end, we consider several predictors. We investigate the restrictions imposed by various complement-taking predicate types, e.g. knowledge predicates, phasal predicates and utterance predicates. Then we consider whether the complement refers to a proposition (a truth-valued meaning unit) or a state-of-affairs (a non-truth valued meaning unit) and whether the subject arguments in the two clauses are identical. We also consider the polarity of the two clauses.

The paper is structured as follows. Section 2 provides a typological overview of clausal complementation. Section 3 gives an introduction to the morphosyntax of the Ruuli language, as

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1 We are grateful to Kasper Boye and Saudah Namyalo for providing valuable feedback on the first draft of this paper.
Sections 4, 5, and 6 describe and analyze complement types, their distribution relative to different semantic classes, and the main predictors of complement choice. A conclusion and outlook are given in Section 7.

2. A typological overview of clausal complementation

This section provides a brief overview of central morphosyntactic and semantic features of clausal complementation from a cross-linguistic perspective and serves as a preliminary to placing the complementation strategies found in Ruuli in a broader typological context. We review definitions of complement clauses and complementation strategies in Section 2.1, complement-taking predicates in Section 2.2, aspects of complement verb forms (e.g., TAM-marking) in Section 2.3, complementizers in Section 2.4, as well as the semantic distinction between states-of-affairs and propositions in Section 2.5.

2.1 Complement clauses and complementation strategies. Complement constructions have been defined in both syntactic and semantic terms. In studies based on semantic definitions, terms such as complement relations and complementation strategies tend to be preferred over complement clauses. Syntactic definitions of complement constructions define complement clauses as core syntactic arguments (i.e., subject or object) of complement-taking predicates in clausal form (as opposed to NP-complements) (Dixon 2006: 15). On this account, clauses such as the one in brackets in (1) can be described as a complement clause, because it functions as the object of the matrix clause she thinks.

(1) She thinks [they are gone].

Semantically-oriented analyses of complement constructions, on the other hand, define complements as semantic (rather than syntactic) arguments of complement-taking predicates (Noonan 2007: 52) and in terms of the relationship between two states-of-affairs Cristofaro (2003: 95). The motivation for the latter definition, in particular, is that definitions of complement clauses as syntactic arguments is too narrow for typological purposes and implies that complements are syntactically embedded. English complement clauses, like the one in (1), can be analyzed as embedded syntactic arguments of a complement-taking predicate, and similar constructions exist in other languages. However, complements in certain other languages cannot be described as embedded, even though they express similar semantic relations. A case in point are languages in which reported speech constructions are ambiguous between direct reported speech and indirect reported speech. Although direct reported speech is not a syntactic argument of a complement-taking predicate and therefore would not traditionally be analyzed as a complement clause, functionally it constitutes a complement relation (Cristofaro 2003, 2013) or a complementation strategy (Dixon 2006: 6–9).

Because of the existence of constructions which are arguably instances of complementation, despite not being syntactic arguments, Cristofaro (2003: 95) prefers the term complement relations which she defines as a situation where two states-of-affairs are linked “such that one of them (the main one) entails that another one (the dependent one) is referred to.” (cf. Section 2.5 below on states-of-affairs vs. propositions). The advantage of this definition is that it functionally covers complement relations in all languages, while remaining compatible with the definition in terms of syntactic argument status.

In this article we adopt this broader conception of complementation in order to provide the most comprehensive description of the structure and semantics of complementation in Ruuli. The analysis will thus cover more traditional examples of complement constructions as well as reported speech, which would be excluded under a narrow syntactic definition of complement clauses. In
what follows, we use the term complement to refer to clausal semantic arguments of complement-taking predicates, including infinitives, as well as reported speech.

2.2 Complement-taking predicates. In cross-linguistic studies of complementation, a number of complement-taking predicate classes have been identified. Commonly identified classes include modal predicates (e.g. can, may), phasal predicates (e.g. begin, continue), manipulative predicates (e.g. force, make), desiderative predicates (e.g. want, wish), perception predicates (e.g. see, hear), knowledge predicates (e.g. know, forget), propositional attitude predicates (e.g. think, believe) and utterance predicates (e.g. say, ask) (Ransom 1986, Givón 2001, Cristofaro 2003, Dixon 2006, Noonan 2007).

Existing cross-linguistic classifications of complement-taking predicates are typically based on a combination of predicate semantics and the type of complement that occurs with a given complement-taking predicate. A downside of such classifications is that they downplay the fact that certain predicates — such as see, know and tell in English — can take more than one complement, as pointed out by e.g. Ransom (1986), Verspoor (2000), Boye (2012) and Serdobolskaya (2016). Consider the contrast between the gerund and the indicative complement of see in example (2).

(2)  
a. She saw him playing the piano.  
b. She saw that he played the piano.

The term perception predicate would be used to describe complement-taking predicates, such as see, only in cases when they occur with a complement describing direct perception, as in (2a). In contrast, see in (2b) would be described as a knowledge predicate. This classification might have the unwanted side-effect of language-specific descriptive studies focusing only on direct-perception constructions with complement-taking predicates meaning ‘see’ and overlook other complement types used with the same predicate. In the analysis of Ruuli, we make an attempt at highlighting contrasts such as the one in (2), as we describe the distribution of complement types over different predicate classes.

2.3 Complement verb forms. Typical contrasts between complement verb forms include contrasts between those forms that can be described as finite vs. non-finite ones or between balanced vs. deranked ones (cf. Stassen 1985, Cristofaro 2003). Balanced verbs are verbs that correspond to verbs in independent declarative clauses with regards to TAM-marking and/or agreement, while deranked verbs are verbs that are different from verbs in an independent declarative clause in some way in terms of tense, aspect, mood or person agreement or by having markers that are not found in independent declarative clauses (Cristofaro 2013). In contrast to Stassen (1985), Cristofaro (2003: 57) furthermore considers a number of moods, such as subjunctives and hortatives, to be deranked by default.

Languages vary considerably as to whether — and to what extent — TAM-marking is obligatory on complement verbs. On one end of the spectrum, there are verbs that need to be marked for the exact same TAM-categories as verbs in independent clauses. On the other end of the spectrum, there are verbs that do not allow any of the TAM-marking available to an independent clause verb. In intermediate cases, verbs may display a large number of TAM-markers, even when the complement does not allow all of the TAM-markers possible for an independent clause verb. In the latter case the complement would still be considered deranked in the sense of Cristofaro (2003), but finite in traditional terms.

2.4 Complementizers and quotatives. Another important point of variation in complementation is the distribution and function of complementizers. According to Noonan (2007: 55), a complementizer is “a word, particle, clitic or affix, one of whose functions it is to identify [a clause] as a complement”, such as English that and whether. Diachronically, complementizers are often derived from elements such as demonstratives or case markers and more rarely from verbs (Heine
In deviation from the cross-linguistic tendency, complementizers in Bantu languages are rather frequently derived from speech verbs but can also have other sources, such as personal pronouns (Kawasha 2007: 181).

While some languages have rich systems of complementizers expressing many different morphosyntactic and semantic features, other languages have few complementizers or lack them altogether. In addition to identifying a clause as a complement, complementizers may have additional semantic functions, for instance modal functions, indicating epistemic certainty or uncertainty (Frajzyngier 1995, Frajzyngier & Jasperson 1991), or the function of distinguishing between propositions (truth-valued meaning units) and states-of-affairs (non-truth valued meaning units) (Kehayov & Boye 2016a: 812–818, cf. Section 2.5).

The identification of complementizers in any individual language is complicated by the fact that a candidate for complementizer status might also function as e.g. a relativizer or adverbializer or it might be synchronically identifiable as an adverb, verb or noun (Kehayov & Boye 2016b: 83).

The term *quotative* rather than *complementizer* is sometimes encountered in analyses of complementation. This term is often used for complementizers that introduce direct reported speech — probably motivated by the fact that within some analytical approaches to complementation, direct reported speech is not considered a type of complement. In languages with a complementizer that only occurs with direct reported speech introduced by an utterance predicate, this can make sense. However, if the so-called quotative is also found with other complement-taking predicate types and/or with indirect reported speech (or complements that do not report speech at all for that matter), the line between quotatives and complementizers begins to blur. As Güldemann (2008: 456) concludes, there is generally “no principled distinction between a quotative and a complementizer”.

In the remaining part of the paper, we will use the term complementizer to cover a morpheme which as one of its functions introduces the following clause as a complement no matter whether the complement can be characterized as reported speech or not.

### 2.5 Complement semantics

A central motivation for complement contrasts, such as finiteness or balancing-deranking contrasts and complementizer contrasts, is the semantic contrast between states-of-affairs and propositions. The contrast has traditionally been understood as a contrast between non-truth valued and truth-valued meaning units (but see Boye 2012 and the references therein for alternative cognitive-functional analyses). The terms states-of-affairs and propositions are also known as actions and facts (Lees 1960), second-order entities and third-order entities (Lyons 1977), and events and propositions (Palmer 1979, Perkins 1983). This distinction plays a central role in functional frameworks such as Functional Grammar (Hengeveld 1989) and has been shown to be analytically applicable to a number of genealogically unrelated languages across the world. Language-specific studies include analyses of clausal complementation in Mayan languages (e.g. Schüle 2000 on Akateko), Japanese and Korean (e.g. Horie 2000), Indo-European (e.g. Holvoet 2016 on Latvian), and Turkic languages (e.g. Rentzsch & Mitkovska 2017 on Balkan and Standard Turkish).

Examples (3)–(5) illustrate some morphosyntactic contrasts in English that have been linked to the semantic contrast between states-of-affairs and propositions. In (3a) *see* takes a finite complement and is used in the sense of acquisition of knowledge (also called *indirect perception*), while in (3b), *see* takes a non-finite complement and is used in the sense of direct/immediate perception. The complement in (3a) expresses a proposition, whereas the complement in (3b) expresses a state-of-affairs (Dik & Hengeveld 1991, Boye 2010).

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2 Note that the same term has also been used to describe items that are not complementizers, but rather reportive evidentials (also known as “hearsay-markers”), cf. Boye (2012: 20).

3 The role of the contrast between states-of-affairs and propositions in complement clause constructions cross-linguistically is extensively discussed in Sørensen (2018).
Clausal complementation in Ruuli (Bantu, JE103)

(3)  
   a. *She saw that he played the piano.*
   b. *She saw him playing the piano.*

   In (4a), *know* has the sense of knowledge of information, which can be called epistemic knowledge, and the finite complement expresses a proposition, while in (4b), *know* has the sense of knowledge of how to do something, which can be called action knowledge, and occurs with a non-finite complement expressing a state-of-affairs (cf. Sørensen & Boye 2015).

(4)  
   a. *She knows that he plays the piano.*
   b. *She knows how to play the piano.*

   In (5a), *tell* introduces a finite complement and is used to report on an assertion expressing a proposition, whereas in (5b), *tell* describes an order or request and occurs with a non-finite complement expressing a state-of-affairs.

(5)  
   a. *She told him that they played the piano.*
   b. *She told him to play the piano.*

   The English predicates *see*, *know* and *tell* all occur with both state-of-affairs and propositional complements, as exemplified in (3)–(5). However, in other languages that make a morphosyntactic distinction between states-of-affairs and propositions, complement-taking predicates need not be polyfunctional in this respect. Instead some languages employ different complement-taking predicates to introduce propositional and states-of-affairs complements. We will make reference to this distinction throughout the paper and in Section 5, as well as exemplify contrasts between states-of-affairs and propositions within different semantic classes of predicates.

   Cross-linguistically there is a great deal of variation in the morphosyntactic properties of complement constructions and a given language may employ several complementation strategies, each with its own semantic and distributional properties (Noonan 2007). On the other hand, there are also recurrent semantic patterns, such the contrast between states-of-affairs and the semantic classification of predicates, that have proven useful for the analysis of most languages.

3. Ruuli

Ruuli (or Ruruuli-Runyala, JE103, ISO 639-3: ruc) is a Great Lakes Bantu language mainly spoken in the Nakasongola and Kayunga districts of central Uganda. Following Schoenbrun (1994), Hammarström et al. (2018) classify Ruuli as a West Nyanza/Rutara language of the Great Lakes Bantu group of languages. However, it should be noted that Schoenbrun’s genealogical study did not include any data from Ruuli as there were none available at the time (Schoenbrun 1994: 118–119).

   The number of ethnic Baruuli and Banyara is around 237,000 according to the 2014 census (Uganda Bureau of Statistics 2016), but the actual number of Ruuli speakers is probably lower as the young population often does not speak the language (Nakayiza 2013). Most speakers of Ruuli are multilingual. In addition to often being fluent in Ganda (West Nyanza/North Nyanza, JE.15, the dominant language of the area) and English (the official language of instruction in Uganda), many speakers interviewed for the corpus used in the present study indicated that they also speak other, mostly Bantu languages of Uganda.

   Ruuli is a typical Bantu language: The dominant constituent order is SVO. Nominal and verbal inflectional morphology is primarily prefixing. Nominal morphology is characterized by a system of noun class prefixes. Every noun in singular and plural is assigned to one of twenty noun classes numbered from 1 to 23. The class numbers correspond to the reconstructed Proto-Bantu classes with their respective noun prefixes and are used to label noun classes in all Bantu languages.
Most nouns have both singular and plural forms and these belong to two different noun classes. As in many other Bantu languages, the odd-numbered classes 1, 3, 5, 7, and 9 contain singular nouns and their corresponding plural forms usually belong to the even-numbered classes 2, 4, 6, 8, and 10, respectively. To enhance readability we do not segment nominal prefixes on nouns in the examples and indicate noun classes in brackets, as e.g. on nkodoore ‘francolin(9)’ in (6), which has a nasal prefix of class 9 realized here as n-.

The nominal class determines the shape of the agreement prefixes on dependents in a noun phrase, on the verb, as well as on a number of other constituents. We indicate the class agreement prefixes on dependents by segmenting them and providing the respective class number in Arabic numerals, as in the case of the object index li- ‘5o’ on the verb in (7). We also use Arabic numerals to indicate person indexing on the verb and person information on pronouns. Notice that in these cases the Arabic numerals are always followed by the indication of number (sg or pl), for instance, both on the verb and the pronoun in (6). As in some Bantu languages, the noun-class prefixes in Ruuli are often preceded by another prefix – the so-called augment (cf. Van de Velde 2019: 247–255). The verb in Ruuli has about nine prefix slots and five suffix slots (the final analysis of the verb morphology is still pending). The verb of an independent clause obligatorily indexes its subject, as in (6), as well as optionally its object, as in (7).

(6) ǹjé ńdyà ńkóðóòrè
nje n-li-a nkodoore
1sg 1sgs-eat-FV francolin(9)
‘I eat a francolin.’

(7) nàyé ǹjé èfàmù nàlìzwììrèkù
naye nje e-ìsumù n-a-li-zw-i=ku
but 1sg AUG-spear(5) 1sg-PST-5O-leave-APPL-PFV=17.LOC
‘But I abandoned the spear.’

Like many other Bantu languages, Ruuli is a tonal language. At present, the tonal system of Ruuli is being investigated and many tonal processes pertaining to the level of word and phrase are still poorly understood and the relations between underlying and surface tone remain opaque in many cases. In what follows we indicate only surface tone in the first line of every example.4 This line also captures some regular phonological alternations not represented in the second line which represents the underlying form and closely follows the accepted orthography.

The data used in the present study come from Witzlack-Makarevich et al. (2019).5 Before the beginning of this project no description of Ruuli existed. As of May 2018 the corpus contained about 150,000 words of naturalistic speech (transcribed and translated). Further 50,000 were available from digitalized written resources produced by the speakers’ community. We first sampled about 1,000 tokens of complementation by exhaustively identifying all potential complementation strategies and complement taking verbs in a number of texts. These 1,000 tokens were annotated for such variables as the presence and form of complementizers, polarity of the two clauses, the identity of subjects in the two clauses, the semantic class of the complement-taking predicates, etc. Once the major complement-taking predicates and complementation strategies were identified and an initial hypothesis about their distribution was made, we sampled further tokens (about 500) of less common complement-taking predicates and complementation strategies. These data were supplemented by focused elicitations carried out in June 2018.

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4 We are grateful to Anatole Jesero and Saudah Namyalo for reeliciting the examples used in this article and annotating surface tone.

5 The corpus collected within the project A comprehensive bilingual talking Luruuli/LunyaEnglish dictionary with a descriptive basic grammar for language revitalisation and enhancement of mother-tongue based education (PI Saudah Namyalo, 2017–2020, funded by Volkswagen Foundation).
4. Complementation in Ruuli

In this section we will describe and exemplify the complement types found in Ruuli. There are three main complement types, given in (8).

(8) Complement types
   a. indicative complements (suffix -a)
   b. subjunctive complements (suffix -e)
   c. infinitive complements (class 15 prefix with the respective augment (o)ku-)

This distinction between indicative, subjunctive and infinitive complements is typical for Bantu languages and there is furthermore a strong tendency for it to be expressed in morphologically similar ways across individual languages (Myers 1975: 185), i.e. as affixes that are identical or near-identical to -a, -e and (o)ku- in Ruuli. In Ruuli the most frequent and versatile complement type is the infinitive, which occurs with all classes of complement-taking predicates except for perception predicates (see Section 5).

More diversity is found between individual Bantu languages when it comes to the form, distribution and function of complementizers. In Ruuli there are three major complementizers, given in (4). Complementizers mark indicative complements only.

(9) Complementizers
   a. nti
   b. oba
   c. nga

In sections 4.1–6.1 we consider each individual complement type and complementizer in turn. In Section 4.7 we furthermore consider an additional potential candidate for complementizer status, ni. Reported speech and another minor complementizer mbu will be considered in Section 5.9.

Complements generally follow the complement-taking predicate. However, on rare occasions, complements precede the complement-taking predicate, as in (10).

(10) tibikyátúkolá
    ti-bi-kyá-tu-kol-a
    NEG-8S-PERS-1PLO-work-FV
    ‘They no longer work for us, I think.’

In this case, however, lowooz ‘think’ is arguably a parenthetical verb rather than a complement-taking predicate, cf. the discussions of parentheticals vs. complement-taking predicates in Thompson (2002), Boye & Harder (2007) and Newmeyer (2015). Such constructions will therefore be exempt from our analysis of Ruuli complementation.

4.1 Indicative complements. The verb form in indicative complements corresponds to that of the verb in an independent declarative clause. The verb obligatorily indexes the subject and optionally the object and can occur with any TAM-categories the verb in an independent clause can occur with. It is negated in the same way verbs in independent clauses are negated. Indicative complements follow perception predicates, knowledge predicates, propositional attitude predicates and utterance predicates and can be marked by a complementizer (nti, oba or nga, cf. Sections 4.4, 4.5 and 4.6, respectively). Examples of indicative complements can be found throughout the article, e.g. (37b), (38), (43), and (58a).
4.2 Subjunctive complements. The subjunctive in Ruuli is formed by adding the suffix -e to a verb stem replacing the final vowel -a. Both the form and the function of this suffix are similar to the cognate ones in closely related Great Lakes Bantu languages (Nurse & Muzale 1999), as well as in many other Bantu languages (Nurse 2008: 44, 192). Final *-e has also been reconstructed for Proto-Bantu (Meussen 1967).

In Ruuli independent clauses the subjunctive is used to express hortative, optative and modal meanings, as in (11).

(11) a. túsómève syé ábáànà
tu-somesy-e a-baana
1pLS-teach-SBJV AUG-child(2)
‘Let us educate children.’

b. ókátòndà atújù
o-Katonda a-tu-jun-e
AUG-god(1) 1pLO-help-SBJV
‘May god help us.’

Similarly to the finite indicative forms (Section 4.1) and in contrast to infinitives (Section 4.3), the subjunctive shows obligatory subject agreement, as in (4.2). In contrast to the finite forms, the subjunctive is not marked for either tense or aspect.

In complement constructions, the subjunctive is found with modals, desideratives and utterance predicates. Complements with subjunctive verbs are never marked by complementizers. Subjunctives occur both in same-subject (12a) and different-subject (12b) constructions.

(12) a. òkùtáká tè ótééwó 8úí-kó̀nkò
tak-a [o-ta-e=wo] o-lukonko
2sgs-want-FV 2sgs-put-SBJV=16.LOC AUG-rift(11)
‘You want to cause a rift.’

b. ñkùtáká ań'ísèmú yá Búnyàlà ébbé
n-tak-a [ansemu] ya Bunyaala e-bba-e
1sgs-PROG-want-FV anthem(9) 9.Gen Bunyala(14) 9s-be-SBJV
ó'mw ísómérò lyàâá-mù
o-mu isomero lyà-AMU
AUG-18.LOC school(5) 5-2pPOSS
‘I want the Bunyala anthem to be in your school.’

4.3 Infinitive complements. The infinitive is formed by adding the class 15 prefix ku- to the verb stem (followed by a final vowel). The class 15 infinitive morpheme *ku is reconstructed for Proto-Bantu (see Nurse 2008: 141) and is found in many other Bantu languages, e.g. in the closely related Soga (Nabirye2016: 309) and Nkore-Kiga (Taylor1985: 20). The prefix ku- is realized as kw- when the following verb stem begins with a vowel.

In most instances, the respective augment prefix o- precedes the class 15 prefix ku-, as with o-ku-emb-a ‘to sing’ in (13). The distribution of ku- vs. o-ku- cannot be described definitively as of now, but one generalization is worth noticing: With negated complement-taking predicates only ku-occurs. However, when the complement-taking predicate is not negated, both o-ku- and ku- are possible.6

6 This is different from some other Bantu languages, which reportedly show free variation between o-ku and ku infinitives. Describing Nkore-Kiga, for example, Taylor (1985: 28) notes that “[t]he form ku is normal, and o-ku gives a more general force”.
Clausal complementation in Ruuli (Bantu, JE103)

(13) nyèndyá mûnó ókwém bá
n-endy-a muno [o-ku-emb-a]
1sg-like-FV much AUG-INF-sing-FV
‘I like to sing very much.’

(14) ábántú tìbàkýáyé ñdyá kúkòlà
a-bantu tì-ba-kya-endy-a [ku-kol-a]
AUG-person(2) NEG-2S-PERS-want-FV INF-work-FV
‘People no longer want to work.’

The infinitive does not show subject indexing and does not take any TAM marking. On the other hand, the infinitive can index objects, as well as take valency-changing affixes, as in (15). The infinitive can be negated with the prefix ta-. Additionally, instead of the regular class 15 prefix ku-, negative infinitives take class 14 prefix bu-, frequently accompanied by the respective augment o-, as in (16).

(15) nibàtáká ókútùbàǹ ñdyá ókàwúmpùlì
ni-ba-tak-a [o-ku-tu-band-isy-a] o-Kawumpuli
NAR-2s-want-FV AUG-1PlO-worship-CAUS-FV AUG-Kawumpuli(1)
‘They wanted to make us worship Kawumpuli.’

(16) òmúsàìzà a-yíńzá óbú tàlëétàwò mûkàlì
o-musaiza a-yinz-a [o-bu-ta-leet-a=wo] mukali
AUG-man(1) 1s-be.able-FV AUG-INF-NEG-bring-FV=16.LOC wife(1)
‘The man may not bring there a wife.’

The infinitive can follow all predicate types described in Section 5 below except for perception predicates, that is modals, phasals, desideratives, knowledge predicates, propositional attitude predicates, emotive predicates and utterance predicates. Infinitives are used exclusively to express states-of-affairs and occur both in same-subject and different-subject constructions, cf. Sections 5 and 6.

4.4 Complementizer nti. The most frequent complementizer in Ruuli is nti, which optionally marks indicative complements introduced by perception predicates, such as ‘see’, as in (17a), knowledge predicates, such as ‘know’, as in (18a), propositional attitude predicates, such as ‘think’, and utterance predicates, such as ‘say’. The cognate form is used in similar contexts in the closely related Ganda (Ashton et al. 1954: 93) and Soga (Nabirye 2016: 390).

(17) Perception
a. ókúbóná ñti òtùkùsØgàlà màbëgà
o-ku-bon-a [nti te-tu-ku-sigal-a] mabega
2sgs-PROG-see-FV COMP NEG-1pS-PROG-stay-FV back(6)
‘You see that we are not staying behind.’

b. ñje ókúbóná bûlî kìmû ómwàănà àkùsóbólà
ñje n-ku-bon-a [buli kimwei o-mwana a-ku-sobol-a
1sg 1sgs-PROG-see-FV every thing(7) AUG-child(1) 1s-PROG-can-FV
ókùkitàmìbùlìyà o-ku-ki-tambuly-a]
AUG-INF-7O-perform-FV
‘I see (that) a child can perform everything.’
Knowledge

a. òmáíté ńty é ìbbäälé tutándikíré óìkúsoì-mésýá
   o-maite [nti e Ibbaaale tu-tandik-ire o-ku-somesy-a]
   2sgs-know.PFV COMP 23.LOC Ibbale 1plS-start-PFV AUG-INF-teach-FV
   ábáänà
   a-baan]
   AUG-child(2)
   ‘Do you know that we started educating children at Ibbale?’

b. òmáíté yééná áìyéndyá ókwifizùkiryá
   o-maite [ye-ena a-endy-a o-ku-yizukiry-a]
   2sgs-know.PFV 2-ADD.FOC 2s-need-FV AUG-INF-be.reminded-FV
   ‘You know (that) he also needs to be reminded.’

The presence of nti does not appear to be correlated with any semantic contrast, nor does nti disambiguate direct reported speech from indirect reported speech (cf. Section 5.9): nti is equally optional with indirect reported speech, as shown in (19a), and with direct reported speech, as in (19b).

(19) a. nákóbá bábíguùíré rípání
   ni-a-kob-a [ba-bi-gul-ire mpani]
   NAR-1S-say-FV 2S-8O-buy-PFV here
   ‘He said (that) they bought them here.’

b. mbísímólà iswè bàátulètètèré ókúkólá 1séntè
   ni-bi-simool-a [iswe ba-a-tu-leet-ire ku-kol-a sente]
   NAR-8S-say-FV 1PL 2S-PST-1plO-bring-PFV INF-make-FV money(9)
   ‘They said, “We were brought to make money.”’

In addition to its use as a complementizer, nti can be used as a quotative particle independent of the presence of a matrix predicate, which serves to present a word as a direct quote in (20).

(20) ńtı bbé
   ntí bbe
   QUOT no
   ‘(She answered) “No.”’

4.5 Complementizer oba. A less frequent complementizer is oba. It marks indicative complements and expresses doubt towards the proposition, as in (21). This morpheme is otherwise used with the meaning ‘or’ to coordinate two noun phrases, verbs, and other units of the same type.

(21) tìnmáìíté, òbá ìkíkólá
    ti-n-maite [oba ki-kola]
    NEG-1sgS-know.PFV COMP 7S-work-FV
    ‘I don’t know whether it works.’

Oba is also used for indirect reports of polar questions, as illustrated in (52) in Section 5.9.

4.6 Complementizer nga. Another less frequent complementizer is nga. The cognate form is reported to have a similar function in a number of related languages, see Kimenyi (2018).
Clausal complementation in Ruuli (Bantu, JE103)

As a complementizer, nga is used only with perception predicates *wuur* ‘hear’ and *bon* ‘see’, as well as with a single phasal predicate *sigal* ‘continue, remain’. The semantics of the complementizer *nga* is not yet clear to us, but possible semantic motivations for the distribution will be discussed in Sections 5.2 on phasal predicates and 5.5 on perception predicates.

In addition to its use as a complementizer, as in (22), *nga* is frequently used as a temporal conjunction ‘while, when’, as in (23) (see also Nabirye 2016: 390–391 on the use of the cognate form in the closely related Soga with a similar range of functions).

4.7 Other complementizers. In addition to *nti, oba* and *nga*, there are a few other less frequent complementizers, which need further study. One of them is *ni*, which is primarily used as the temporal (‘when’) and conditional (‘if’) conjunction. We have found examples of *ni* occurring with the verbs *bon* ‘see’ and *izukir* ‘remember’, as in (24) and (25).

Another very infrequent and initially overlooked complementizer is the complementizer *mbu* used exclusively with reported speech, as in (26). The complementizer *mbu* occurs with statements only and never with questions or commands. On the basis of about two dozens available examples, it seems to have a speaker-evaluative meaning: the current speaker gives an evaluation about the discourse of another speaker (or much less frequently for self-quotation) ranging from uncertainty or hesitation to disbelief or doubt of the authenticity of the reported message. Similar constructions are discussed in Spronck (2012: 79) as “quotative-with-dubitative construction”.

7 The subject index of class 14 on the verb refers to ‘children’ and class 14 is used here in its diminutive function. The noun for ‘children’ otherwise belongs to class 2 and the agreement in this class appear on the possessive pronoun *lwaabwe* “their”.

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(22) ábáánà oîzà kúbóná ngà bákwwi-líkírízà
    a-baana o-iz-a ku-bon-a [nga ba-ku-ikiriz-a]
    AUG-child(2) 2sgS-AUX-FV INF-see-FV COMP 2s-2sgo-believe-FV
    ‘You will see the children believe you.’

(23) nàsoméré ngà ŋkyálfí mútó
    n-a-som-ere nga n-ka-li mu-to
    1sgS-PST-study-PFV CONJ 1sgS-PERS-be 1-young
    ‘I studied, when I was still young.’

(24) wábówíné 'ní bükwwnì-bá ólúlí-mí lwáà-bwé
    o-a-bwón-re [ni bu-kú-emb-a o-lúlúmí lwu-abwé
    2sgS-PST-watch-FV COMP 14s-prog-sing-FV AUG-language(11)11-2poss
    ólwà bùnyàlá
    o-lwa Bunyala]
    AUG-11.gen Bunyala(14)
    ‘Did you see how [=when] they7 sang their language of Bunyala?’

(25) izúkidì-rá ní twáiri-kìrè ókú làngò èëi-yó
    izukir-a [ni tu-a-iruk-ir-ire o-ku Lango eyo]
    remember-FV COMP 1plS-PST-run-appl-PFV AUG-17.loc Lango MED
    ‘Remember how [=when] we ran to that Lango.’

(26) Naye abandi ba-kob-a mbu oBunyala bwaikanga
    naye a-ba-ndi ba-kob-a [mbu o-Bunyala bu-a-ikang-a
    but AUG-2-other 2s-say-FV COMP AUG-Bunyala(14) 14s-PST-reach-FV
oku Nammanve.
o-ku Nammanve
AUG-17.LOC Nammanve(9)

‘But others say that the Bunyala reached Nammanve.’ (written corpus)

*Mbu* can also be used as a quotative particle without any complement-taking predicates to introduce reported speech with the respective speaker-evaluative meaning, as in (27) (see Section 2.4 on the connection between complementizers and quotatives, see also Section 4.4 on how *nti* is used as a quotative).

(27) Abanyala abasookere balumire mbu ensika
a-Banyala a-ba-sook-ere ba-lum-ire mbu e-nsika
AUG-Banyala(2) REL-2S-be.first-PFV 2S-farm-PFV QUOT AUG-hoe(10)
bazitwoire Chope.
ba-zi-two-ire Chope
2S-100-get-PFV Chope(1)

‘The first Banyala did farming and (it is said that allegedly) they got the hoes from Chope.’ (written corpus)

A cognate complementizer *mbu* with a similar distribution is reported for the closely-related Ganda. Murphy (1972: 332) defined it as a conjunction used “to introduce reported speech *that, namely*. It is similar in function to *nti* but implies doubt and uncertainty”.

5. Complement-taking predicates and complement semantics

Below, we will discuss a number of complement-taking predicate classes and describe the distributional variation of complements within each class. The point of departure for the analysis of Ruuli were the classes of complement-taking predicates defined in Cristofaro (2003). However, it should be noted that we work with slightly different definitions of specifically modal, manipulative, perception, knowledge, and utterance predicates. We choose not to place complement-taking predicates occurring with several complement types in more than one category. Thus, Section 5.5 labeled perception predicates, for example, covers all constructions with complement-taking predicates that describe perception such as *bon* ‘see’ in constructions that describe ‘direct perception’ (*I saw him leave*), as well as constructions that describe ‘indirect perception’ (*I saw that he left*). In this way, we wish to display the versatility of individual complement-taking predicates, as well as systematically discuss the prevalence of contrasts between states-of-affairs and propositions in Ruuli complementation.

5.1 Modals. Modal predicates have meanings such as ‘may’ and ‘can’ and describe likelihood, possibility, ability, permission and obligation (Palmer 2001: 33). We follow Van der Auwera & Plungian (1998) and distinguish two major types of modal expression, viz. possibility and necessity, as well as four modality domains, viz. participant-internal modality, participant-external modality with a subtype of deontic modality, as well as epistemic modality.

In Ruuli at least six different verbs are regularly used as modal predicates. Some of these verbs are attested in other West Nyanza languages with similar meanings (see e.g. Nabirye 2016: 313, Kawalya et al. 2018). Possibility is expressed in Ruuli by the modal verbs *sobol* and *yinz* both

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*Kawalya et al. (2018) claim that the verb *yinz* is only attested in North Nyanza languages and is not found in Rutara, the branch of West Nyanza to which Ruuli belongs. However, Ruuli data, which were not available to the authors of that paper, contradict this claim.*
translated as ‘can, may, be able’. These two verbs can express all possibility domains: participant-internal possibility, as in (28a) and (17b), non-deontic participant-external possibility, deontic participant-external possibility, as well as epistemic possibility, as in (28b).

(28) a. ñsóbólá ókússõ sóótórara  omúntw ekióbóló
    n-sobola [o-ku-sosootoor-a o-muntu e-kiibulo]
    1sgS-can-FV AUG-INF-serve-FV AUG-person(1) AUG-meal(7)
    ‘I can serve a person a meal’

b. òbà é kídérà éyó omú kátélé gāyińzá
   obe e Kidera eyo o-mu katala ga-yinz-a
   perhaps 23.LOC Kidera there AUG-18.LOC market(12) 6S-can-FV
   òkúbbáyókù [o-ku-bba-a=yo=ku]
   AUG-INF-be-FV=23LOC=17LOC
   ‘There may be some (spears to buy) at Kidera in the market.’

Necessity is expressed by the modal verbs lin and teek(w) both translated as ‘must, have to’. Both these verbs are used to express deontic (29a) and non-deontic participant-external necessity. Only teek(w) is found in our corpus to express epistemic necessity, as in (29b).

(29) a. òlìnà kùsálá mūsāàyì
    o-lin-a [ku-sal-a musaayi]
    2sgS-have.to-FV INF-sacrifice-FV blood(3)
    ‘You have to sacrifice blood.’

b. kátééká ókú Địa bātāmù omú kīdōndóórò
    ka-tek-a [o-ku-bba-a=mu o-mu kidondooro]
    12S-must-FV AUG-INF-be-FV=18.LOC AUG-18.LOC granary(7)
    ‘It must be there in the granary.’

All the modal verbs discussed above occur exclusively with infinitive complements (introduced in Section 4.3).

To express participant-internal necessity the verb endy and occasionally tak are used. However, in most cases these two verbs are used with the meaning ‘want’ and in this meaning they take both infinitive and subjunctive complements primarily conditioned by whether the subject of the matrix clause and the complement verb are identical (see Section 5.4). In their modal meaning, they primarily also allow for these two complementation strategies under the same conditions.

With the same subject in the two clauses we find an infinitive complement, as in (30a), whereas with different subjects the subjunctive is used, as in (30b). In addition to these two verbs, the corpus contains a few tokens of the verb etaag ‘need’, which is also used to express participant-internal necessity. Cognates of this verb are found in a number of closely related languages (see e.g. Nabirye 2016:313, Kawalya et al. 2018).

(30) a. ñkwèńdyá kútā nákà
    n-ku-enty-a [ku-tanak-a]
    1sgS-PROG-need-FV INF-vomit-FV
    ‘I need to vomit.’

Though the possibility of a borrowing from the dominant Ganda cannot be excluded, the verb yinz is frequently used in the corpus and occurs in a wide array of contexts building an integral part of Ruuli grammar.
b. ǹkwëndyá  àtújú́nè
n-ku-enty-a  [a-tu-jun-e]
1sgS-PROG-need-FV  1s-1plo-help-SBJV
‘I need him to help us.’

Of the verbs discussed above, only some are also found as lexical verbs taking nominal objects. Sobol has the meaning ‘manage smth./smb.’ when used as the main verb, eetag is used as ‘need smth.,’ lin is common as ‘have smth./smb.,’ tak and endy both meaning ‘want smth./smb.’

5.2 Phasals. Phasal predicates are predicates that describe the beginning, continuation or end of an event. There are at least five phasal predicates in Ruuli: tandik ‘start/begin’, mal ‘finish’, lek ‘stop/leave’, onger ‘continue’ and sigal ‘remain, continue’.

Phasal predicates are primarily used with infinitives, as in (31).

(31) a. bàtándikíré ókùtù ↓ bùlyábúlyà
   ba-tandik-ire  [o-ku-tu-bulyabuly-a]
   2s-start-PFV  AUG-INF-1plO-confuse-FV
   ‘They started confusing us.’

b. nì  ntándiká  òikuúbínà
   n-ntandik-a  [o-ku-bin-a]
   when  1sgS-start-FV  AUG-INF-dance-FV
   ‘When I start dancing, …’

In contrast to other phasal predicates sigal ‘remain, continue’ prefers a different construction, namely a complement marked by the complementizer nga presented in Section 4.6, as in (32). The complementizer nga is otherwise only found with perception predicates (cf. Section 5.5).

(32) a. nińsigä́lá  ngå  nēeęgó́ńba
   ni-n-sigal-a  [nga  n-eegomb-a]
   NAR-1sgS-reain-FV  COMP  1sgS-admire-FV
   ‘I was left admireing.’

b. bàásigäářé  ngå  bàżá  ókuün̄syóó̄mà
   ba-sigal-ire  [nga  ba-iz-a  o-ku-n-syom-a]
   2s-reain-PFV  COMP  2s-AUX-FV  AUG-INF-1sgO-hire-FV
   ‘They could still hire me.’

5.3 Manipulatives. Manipulative predicates are predicates with meanings such as ‘make’ and ‘force’. They describe the coercion of a participant into carrying out an action. Ruuli appears to lack specialized manipulative predicates like English force or prevent. Functions of constructions with these kinds of complement-taking predicates are primarily carried out by the morphological causative constructions, i.e. by using verbs with the dedicated causative suffix, as in (15) and (41a). The best candidate for a manipulative predicate in Ruuli is yamb ‘help’, as in (33), which occurs with infinitive complements. Note also that it is possible to use utterance predicates in a manipulative sense as described in Section 5.9.

(33) túbáyáń́mbá  ókuulimá  èmwàánì
    tu-ba-yamb-a  [o-ku-lim-a  e-mwani]
    1plS-2o-help-FV  AUG-INF-cultivate-FV  AUG-coffee(10)
    ‘We help them to cultivate coffee plantations.’
5.4 Desideratives. Desiderative predicates are predicates with meanings like ‘want’ and ‘wish’. Ruuli frequently employs two desiderative predicates, viz. *tak* ‘want, desire’ and *endy* ‘want, like’. These predicates *tak* ‘want, desire’ and *endy* ‘want, like’ most often introduce infinitive complements, as in (34a), but subjunctive complements, as in (34b), are also frequent. The two predicates are also used to express participant-internal necessity and in these function they were discussed and exemplified in Section 5.1.

\[(34)\]  
\begin{align*}
a. & \text{ tǔ-kǔtākā kūkī-yíündūlā} \\
& \text{tu-ku-tak-a [ku-ki-yindul-a]} \\
& \text{1plS-PROG-want-FV INF-7O-change-FV} \\
& \text{‘We want to change it.’}
\end{align*}

\begin{align*}
b. & \text{ tǔ-kǔtākā mù-i tééwò érésōni} \\
& \text{tu-ku-tak-a [mu-ta-e=wo e-lesoni]} \\
& \text{1plS-PROG-want-FV 2pl=:SBJV=LOC AUG-lesson(9)} \\
& \text{‘We want you to introduce a lesson.’}
\end{align*}

According to Haspelmath (1999: 41–42) there is a cross-linguistic tendency for same-subject and different-subject constructions with so-called ‘want’ complements to take morphosyntactically asymmetric complements. Among others, Swahili (Bantu) is given as an example of a language, where infinitives are used in same-subject constructions, while subjunctives are used in different-subject constructions. Also in Ruuli we find a correlation between same vs. different subject and the type of complement: Most of the different-subject constructions found with *tak* ‘want, desire’ and *endy* ‘want, like’ are subjunctive, whereas same-subject constructions with these verbs tend to have infinitive complements. However, there is still a non-negligible amount of examples of different-subject constructions involving infinitives, as well as same-subject constructions involving subjunctives. Possible motivating factors for the distribution of infinitives and subjunctives are discussed further in Section 6.1 below.

5.5 Perception predicates. Perception predicates are predicates describing a physical sensation, such as ‘see’, ‘hear’ and ‘feel’. Ruuli has at least two perception predicates, viz. *bon* ‘see’ and *wuur* ‘hear’. They can occur with complements that express states-of-affairs and signify ‘direct perception’ (also called ‘immediate perception’), as well as complements expressing propositions that signify information acquired via perception (known as ‘indirect perception’ or ‘knowledge acquired’) (Dik & Hengeveld 1991, Boye 2010). Indicative complements, as in (35), – with or without complementizer *nti* – are most common. The complementizer *nti* can only be used to indicate an ‘indirect perception’ reading.

\[(35)\]  
\begin{align*}
m \text{ pūúrá } & \text{ nti } ñdóówó màyèmbé ãgãšímoólá} \\
& \text{n-wuur-a [nti ndoo=wo mayembe a-ga-simool-a} \\
& \text{1sgS-hear-FV COMP NEG.COP=16.LOC spirit(6) REL-6S-speak-FV} \\
& \text{ólulíimí lu-ndi òkwíi’yákwa òlùgàndà lwónkài} \\
& \text{o-lulimi lu-ndi okwiyaku o-Luganda lu-onkai] \\
& \text{AUG-language(11) 11-other except AUG-Ganda(11) 11-only} \\
& \text{‘I hear that there are no spirits that speak any other language except Ganda.’}
\end{align*}

In contrast to other predicate types, perception predicates often take complements with *nga*, but it is not yet clear whether there is a morphosyntactic or semantic explanation for the distribution of *nga*. With *wuur* ‘hear’ it seems that the presence and absence of *nga* contrasts direct and indirect perception, as in (36a) and (36b), respectively. Example (36a) describes the perception
of the sound of the wind, whereas example (36b) describes knowledge acquired through hearsay rather than the perception of sound.

(36) a. ńpúúrá épéwò ng ĕkũñ+nyákáláŋkú
  n-wuur-a [e-mpewo nga e-ku-n-yakal-a=ku]
  1sgS-hear-FV AUG-wind(9) COMP 9S-PROG-1sgO-pass-FV=17LOC
  ‘I heard/felt wind passing over me.’

b. ńpúúrá àzwààmú olúbááwò
  n-wuur-a [a-zwamu a-lubaawo]
  1sgS-hear-FV 1S-produce AUG-timber(11)
  ‘I hear it (a specific type of tree) produces timber.’

However, with bon ‘see’ we find complements that express indirect perception marked by nga, as in (37a), parallel to examples without a complementizer, as in (37b).

(37) a. ńkúkírolēérá ngà kiyíńzá ókúbá
    n-ku-ki-lool-er-a [ngà ki-yinz-a o-ku-bba-a]
    1sgS-PROG-7O-see-APPL-FV COMP 7S-may-FV AUG-INF-be-FV
    ē'kíźfbù. ngàkiyinz@[o-ku-bba-a]
    e-ki-zibu
    AUG-7-difficult
    ‘I am seeing (observing) that it may be difficult.’

b. babóíné 1tέkyááńli yà mûgaśò
    ba-boine [ti-e-kyá-li ya mugaso]
    2plS-see.PFV NEG-9S-PERS-be 9.GEN importance(3)
    ‘They have seen they are no longer of importance.’

It is clear that perception predicates differ from other predicate classes due to their relatively frequent co-occurrence with the complementizer nga, which is otherwise only found with the phasal predicate sigal ‘remain/continue’. The contrast between direct and indirect perception seems to play a role in constructions with wuru ‘hear’, but not so much with bon ‘see’. At present, it is not yet clear whether a comprehensive semantic analysis of nga is really tenable or whether the synchronic distribution of nga is simply what is left of a previously more widespread use.

5.6 Knowledge predicates. Knowledge predicates are predicates with meanings such as ‘know’, ‘learn’ and ‘teach’ that signify the state, acquisition or transfer of knowledge. Predicates describing knowledge of information (epistemic knowledge) or ‘know how’ (action knowledge) are included in this class. There are at least ten complement-taking knowledge predicates in Ruuli, they include many ‘know’, izukir ‘remember’, ebeer ‘forget’, ebw ‘forget’, etej ‘understand’, tegeer ‘realize, understand’, egesy ‘teach’, tendek ‘train’, somey ‘teach’, and lang ‘show’.

As a group, knowledge-predicates most often take indicative complements with or without nti as in (38) and (39), in which case they describe epistemic knowledge.

(38) òmáíte ñty ábáńtú bâàkômèrè múi ábáńtú
    o-maita [nti a-bantu ba-kom-ire múi a-bantu]
    2sgS-know.PFV COMP AUG-person(2) 2S-select-PFV here AUG-person(2)
    ‘Do you know that people have selected elders and they are in Kayunga at Katikoomu?’
Clausal complementation in Ruuli (Bantu, JE103)

(39) náyé izúkìrà nty ọmwaànà yààlì ọmwoójò
naye izukir-a [nti o-mwana a-a-li mwojo]
but remember-FV COMP AUG-child(1) IS-PST-be boy(1)

'But remember that the child was a boy.'

As for the complementizer *nti*, we find an equal number of complements with and without *nti* with complements of *many* ‘know’ and it thus appears that it is completely optional. On the other hand, *izukir* ‘remember’ is more frequently used without the complementizer *nti*. Finally, complements of *lang* ‘show’ are always marked by *nti*, as in (40).

(40) ngà báìùlùáŋá nty è kyáümúgànwà
ga ba-tu-lang-a [nti e Kyamuganwa
wàbbààŋí=gàwò énjà̃i
wa-bba-ang-a=wo enjazi]
16sgs-be-HAB-FV=16.LOC

'And they showed to us that there were wells at Kyamuganwa.'

Infinitives, though infrequent with knowledge predicates, are used when the complement-taking predicate means ‘know how to’, as in (41a), ‘teach how to’, as in (41b) and (41c), and ‘forget to’, as in (41d). Note that the same complement-taking predicate *many* ‘know’ is used in (38) and (41a). It can be seen how the choice of complement type (indicative vs. infinitive) makes a difference to the meaning of the complement construction (epistemic knowledge vs. know how).

(41) a. òmúnyálá yàmàìté ókúlyà
o-munyala a-a-maite [o-ku-ly-a
AUG-Munyala(1) 1S-PST-know.PFV AUG-INF-eat-FV
ókúlísíyà 1ámákà
o-ku-li-isy-a a-maka]
AUG-INF-eat-CAUS-FV AUG-HOME(6)

‘A Munyala knew how to eat, how to feed the home.’

b. ómwáàlà tûmúwéègè èsyá ókúlàmúcà
o-muwaala tu-mu-egesy-a [o-ku-lamuc-a]
AUG-girl(l) 1plS-1sgO-teach-FV AUG-INF-greet-FV

‘We teach the girl to greet.’

c. bàkússómésyé ábáántú ókúyínídúlá
ba-ku-somesy-e a-bantu [o-ku-yindul-a
2s-PROG-teach-SBJV AUG-person(2) AUG-INF-translate-FV
èdïkisốnà ré bágité ómú lúlími
e-dikisonare ba-gi-te o-mu lulimi
AUG-dictionary(9) 2s-9o-put-SBJV AUG-18.LOC language(11)
Iwái swé ólúnyálá
lu-aíswe o-Lunyala]
11-1plPOSS AUG-Lunyala(11)

‘They may teach people how to translate a dictionary into Lunyala, our language.’

d. nì twèèrấbírá ókússùníbísíyà
ni tu-erahibí-a o-ku-semb-isy-a
CONJ 1plS-forget-FV AUG-INF-cook-CAUS-FV

‘And we forget how to cook food.’
Knowledge predicates occasionally occur with the complementizer *oba* ‘whether’ discussed and illustrated in Section 4.5. This complementizer marks indicative complements and expresses doubt towards the proposition.

### 5.7 Propositional attitude predicates

Propositional attitude predicates are predicates with meanings like ‘think’ and ‘believe’. There are at least two propositional attitude predicates in Ruuli: *lowooz* ‘think’, illustrated in (42), and *ikiriz* ‘accept, agree to, allow, believe, permit’, illustrated in (43). Propositional attitude predicates most often occur with indicative complements with or without *nti*, as in (42a) and (42b).

(42) a. ǹdówóózá bákúfúnámù kidóòlì
n-lowooz-a [ba-ku-fun-a=mu ki-dooli]
1sgs-think-FV 2s-prog-get-FV=18.loc 7-little
‘I think they benefit little.’

b. ǹkúlówóózá ntí tükútàndikáwó épůlọyèkitì
n-ku-lowooz-a [nti tu-ku-tandik-a=wo e-puloyekiti]
1sgs-prog-think-FV comp 1pls-prog-start-FV=16.loc aug-project(9)
‘I was thinking that we start up projects.’

(43) ǹkwììkírízá ntí wàbbáàwòkw iibbaàlè
n-ku-ikiriz-a [nti wa-bba-a=ku e-ibbaale]
1sgs-prog-believe-FV comp 16sg-cop-FV=16.loc 17.loc aug-stone(5)
‘I believe that there will be a stone.’

Both *lowooz* and *ikiriz* also occur with infinitive complements. The infinitive is possible with *lowooz* ‘think’ when the complement expresses something that is planned to happen, as in (44).

(44) àlówóózá ókwààbà n’-òmwíìbbì
a-lowooz-a [o-ku-aba na-o-mwibbi]
1s-think-FV aug-inf-go com-aug-thief(1)
‘He thinks (i.e. intends) to go with the thief.’

Thus, the complement-taking predicate in (44) does not actually express an ‘attitude’ towards a proposition as the name of the class would suggest. It means ‘intend’ rather than ‘think’. However, we chose to keep the class name to mirror the ones used in Cristofaro (2003).

The infinitive is very common with *ikiriz* and then *ikiriz* has the meaning of ‘allow, to permit’, as in (45).

(45) eíkúrúhááni čìkírízá ókú-gúlá ómúkázi
e-Kurūhaní e-ikiriz-a [o-ku-gul-a o-mukazi]
AUG-Koran(9) 9s-accept-FV aug-inf-buy-FV aug-woman(1)
‘The Koran accepts (i.e. permits) buying a woman.’

### 5.8 Emotive predicates

Emotive predicates are predicates describing an emotion with meanings such as ‘hate’, ‘love’ etc. There are at least four emotive predicates in Ruuli: *tiin* ‘fear, to be afraid’ (46), *sanyuk* ‘be happy, to be glad’ (47), *smeerw* ‘be happy, to be glad’ (48), and *eyanz* ‘thank, to be grateful’ (49). Emotive predicates always occur with infinitives.
5.9 Utterance predicates. Utterance predicates have meanings such as ‘say’, ‘ask’ and ‘tell’ and signify information transfer, information requests or orders and directions delivered by means of speech. There is more than a dozen utterance predicates in Ruuli, the most common are kob ‘to say, to tell’, buuly ‘ask (a question)’, sab ‘ask (for), request, pray (for)’ and gaan ‘refuse, reject’.

In principle, it is possible to distinguish between direct and indirect reported speech in Ruuli, although many tokens in the corpus are ambiguous due to ambiguous reference of deictic elements. The most reliable criteria are shifts in pronominal reference, as in (50a) vs. (50b), as well as the use of imperatives. Temporal deixis is less reliable. Further investigations are needed to assess the reliability of spatial deixis and of other discourse features in distinguishing between the two types of reported discourse (for a discussion of criteria for the distinction between direct and indirect discourse see e.g. Güldemann 2008: 27–28). Direct speech is especially frequent with kob ‘say, tell’ and buuly ‘ask (a question)’.

Utterance predicates are the most versatile of all complement-taking predicates in Ruuli. For instance, the most common utterance predicate by far, kob ‘say, tell’, occurs with direct and indirect reports of assertions, questions and commands. Structurally, it can occur with indicatives, subjunctives and infinitives. In what follows we provide examples of direct and indirect reports of assertions, direct and indirect reports of questions, as well as of direct and indirect reports of commands introduced by utterance predicates.

Reported assertions are often introduced by nti, but the presence or absence of nti is not indicative of the complement being a direct or indirect report, cf. (50a) and (50b). Direct speech complements are marked by nti slightly more often than indirect speech complements.

50a) and (50b). Direct speech complements are marked by indicative of the complement being a direct or indirect report, cf. (50a) vs. (50b), as well

(46)  një  ntiインァ  okúbirmyakályá  âmù  1kánwá  kàngè  
    nje  n-ti-in-a  [o-ku-nyakaly-a  o-mu  kanwa  ka-ne]  
    1sg  1sgS-be.afraid-FV  AUG-INF-pass-FV  AUG-18LOC  mouth(12)  12-1sg.POSS  
    'As for me, I fear to pass it through my mouth.'

(47)  òkyötó  nàsáInyúká  okúfùná  âbáànà  
    o-Kyoto  n-i-a-sanyak-a  [o-ku-fun-a  a-baana]  
    AUG-Kyoto(1)  NAR-1S-be.happy-FV  AUG-INF-get-FV  AUG-child(2)  
    'Kyoto was happy to get children.'

(48)  njeééná  nsèmèléréfrwé  okúbbá  àni  
    nje-ena  n-semereirwe  [o-ku-bba  an]  
    1sg-ADD.FOC  1sgS-be.happy.PFV  AUG-INF-COP  here  
    'I’m also glad to be here.'

(49)  nèyánziré  mûnò  okúlsàngà  
    n-e-yanz-ire  muno  [o-ku-sang-a]  
    1sgS-appreciate-PFV  much  AUG-INF-2sgO-meet-FV  
    'I am pleased to meet you.'

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    'As for me, I fear to pass it through my mouth.'

(47)  okyótó  násá-Inyúká  okúfùná  èbáànà  
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Reported assertions are often introduced by nti, but the presence or absence of nti is not indicative of the complement being a direct or indirect report, cf. (50a) and (50b). Direct speech complements are marked by nti slightly more often than indirect speech complements.
ómú máká ñáyábè
AUG 18.LOC home(6) 1S-go-SBJV
‘He decided to say that he’d rather leave home and go away.’

Indicative complements of utterance predicates marked by *ntí* do not have any special characteristics in comparison to indicative complements of other complement-taking predicates that co-occur with *ntí* (perception, knowledge and propositional attitude predicates).

Direct reports of polar questions (yes/no-questions) do not have any special characteristics distinguishing them from reported assertions. This follows naturally from the fact that independent clause polar questions are morphosyntactically identical to independent clause assertions in Ruuli. Direct reports of questions can be marked by *ntí* as in (51).

(51) Direct report of question
nàmìbúñýà ni-ntí mwààná wàngè ñóyàbìrèkù
AUG-1S-nti-swana wa-ange o-ab-ire=ku
NAR-1S-1sGO-ask-FV COMP child(1) 1-1sgPOSS 2sgs-go-PFV=17.LOC
ómù ńkwíi
AUG-18.LOC firewood(10)
‘She asked me, “My child have you ever gone to collect firewood?”’

Indirect reports of questions, as in (52) are introduced by *obra*. In such cases *obra*, which is otherwise used as a conjunction ‘or’ in Ruuli, functions as a complementizer somewhat similar in meaning to English whether (cf. Section 4.5). The occurrence of a morpheme functioning both as a conjunction ‘or’ and as a complementizer used to report polar questions is not surprising: Meanings such as ‘or’ are related to uncertainty and uncertainty is related to polar questions (cf. Boye 2012).

(52) Indirect report of question
òpúrezìdèńtì tükúmûsâbà ñóba átúwèêryéêyó
AUG-president(1) 1plS-PROG-10-ask-FV whether 1s-1plO-Give-FV=23.LOC
ákáséèrà kàdyòfòlì
AUG-time(12) 12-little
‘We ask the president whether he gives us a moment.’

In direct reports of commands and requests the imperative form of the verb (stem and final vowel, no subject indexing) is used, exactly as in the imperative main clause.

(53) Direct report of command/request
nànkóbá séeñyá éńkwí
AUG-1S-nkob-a [seeny-a e-nkwi]
NAR-1S-1sgS-say-FV collect-FV AUG-firewood(10)
‘She said, “Collect firewood!”’

Indirect reports of commands are achieved by employing a subjunctive verb form as in (54) or – less frequently – by an infinitive.
(54) Indirect report of command/request
nàyé twààmùkòbèré àtúwèèryééyo ómusááyì
naye tu-a-mu-kob-ire [a-tu-weery-e=yo o-musaayi]
but 1plS-PST-1O-say-PFV 1s-1plO-give-SBJV=23LOC AUG-blood(3)
‘But we told him to give us some blood.’

Utterance predicates also occur with the infrequent complementizer *mbu* presented in Section 4.7. Further research is needed to describe its distribution in more detail.

5.10 Other complement-taking predicates. In this final section we provide some examples of less frequent complement-taking predicates yombok ‘struggle’ and the inherently reflexive ebaly ‘thank’. These predicates occur with infinitive complements.

(55) túkú↓gádà o↓kwómbòká òlùbìrì
tu-ku-gad-a [o-ku-yombok-a o-lubiri]
1plS-PROG-struggle-FV AUG-INF-build-FV AUG-palace(11)
‘We are struggling to build a palace.’

(56) wéébá↓lélé kúbýáłá
o-ebaly-e [ku-byal-a]
2sgS-thank-SBJV INF-give.birth-FV
‘Thank you for giving birth.’

6. Discussion

In the previous sections we have pointed out two main predictors of complement choice with different predicate classes: 1) different-subject and same-subject constructions and 2) the semantic distinction between states-of-affairs and propositions. This section summarizes the most important analytic points and discusses the predictions further.

6.1 Comparison of the subjunctive and the infinitive: different-subject vs. same-subject constructions. As described in Section 4 subjunctive complements follow a limited number of predicates, namely modals, phasals, desideratives, and utterance predicates, but infinitives combine with all predicate classes except for perception predicates. Some complement-taking predicates in Ruuli thus allow both infinitive and subjunctive complements.

Several other Bantu languages have complement-taking predicates that can introduce both subjunctive and infinitive complements, but the motivation for choosing one over the other is likely language-specific. For Bemba (East Bantu, M42; Zambia), for example, Givón (1969: 224) has noted that the meaning difference between subjunctive and infinitive complements of manipulative predicates is that with subjunctives the event in the complement may or may not have happened, whereas with infinitives it has happened (at some point). In Nzadi (Narrow Bantu, B30; DR Congo) infinitives are generally used in same-subject constructions, while subjunctives are used in different-subject constructions (Crane et al. 2011: 180–182). Such an analysis does not comprehensively account for the distribution of infinitives and subjunctives in Ruuli. Realis status does not seem to be a motivating factor at all, and while the account in terms of the distinction between different-subject and same-subject constructions does indeed motivate the distribution to some degree, it cannot stand on its own. Complements in different-subject constructions with desiderative predicates, for example, are almost always subjunctive, but same-subject complements are not always infinitives, as shown in (57a).
(57) a. àkwèǹdyá áyábé òkú ↓ yúnívásítè
   a-ku-endy-a [a-ab-e o-ku university] 1S-PROG-want-FV 1S-go-SBJV AUG-17.LOC university(9)
   ‘She wants to go to university.’

b. ñjè ñkwèǹdyá kúsómà ↓ kátèrìng
   nje n-ku-endy-a [ku-som-a katering] 1sg 1sgS-PROG-want-FV INF-study-FV catering(9)
   ‘For me, I want to study catering.’

It is not yet entirely clear what motivates the use of a subjunctive instead of an infinitive in same-subject constructions, but one possibility is that the choice is motivated by a rather subtle semantic difference: when endy introduces an infinitive complement as in (57b) it resembles English ‘want’, whereas when endy introduces subjunctive complements the meaning of endy is more akin to ‘would like to’, as in (57a).

6.2 States-of-affairs and propositions. In Section 2 above we discussed the connection between semantic contrasts and morphosyntactic contrasts in complementation, in particular the contrasts between states-of-affairs and propositions as found in complement constructions with perception predicates (direct perception vs. indirect perception), knowledge predicates (epistemic knowledge vs. action knowledge/know how) and utterance predicates (reports of assertions or questions vs. reports of commands/requests). In this section we relate the contrast between state-of-affairs and propositions to Ruuli complementation.

Several tests for identifying whether a complement clause expresses a state-of-affairs or a proposition have been proposed in the literature. Among them are the distribution of complements on specific predicate types and the acceptability of epistemic modification of the complement (e.g. insertion of maybe in English) (for discussions of appropriate tests cf. Boye 2012, Serdobolskaya 2016). We will focus on the distribution of complement types and complementizers over predicate classes.

In Ruuli the contrast between propositions and states-of-affairs is found within different complement-taking predicate classes, namely knowledge-predicates, propositional attitude predicates, utterance-predicates and perception-predicates.

For example, (58a) and (58b) illustrate the contrast between propositional and state-of-affairs complements in Ruuli knowledge-predicate complementation. The indicative complement of many ‘know’ in (58a) represents epistemic knowledge, whereas the infinitive complement of many ‘know’ in (58b) designates ‘know how’. (Note that the infinitive construction does not have any element corresponding to English how).

(58) a. Proposition (epistemic knowledge)
   òmáíté yeénà áyéndyá ókwáàyà
   o-maite [ye-ena a-endy-a o-ku-yizukiry-a]
   2sgs-know.PFV 1-ADD.FOC 1S-need-FV AUG-INF-be.reminded-FV
   ‘You know he also needs to be reminded.’

b. State-of-affairs (action knowledge/know how)
   âmáíté ókú↓sáányà
   a-maite [o-ku-sany-a]
   1S-know.PFV AUG-INF-swim-FV
   ‘He knew how to swim.’

A parallel contrasts from utterance-predicate complementation is given in example (59). In this case too, a morphosyntactic contrast is accompanied by a semantic contrast. Example (59a)
Clausal complementation in Ruuli (Bantu, JE103) illustrates an indicative complement (marked by the complementizer *nti*) contrasting with a state-of-affairs complements (a subjunctive in (59b))

(59) a. Proposition (report of assertion)
   a-Baganda  ni-ba-kob-a  [nti bamafûnbè] ni-bo
   AUG-Baganda(2) NAR-2S-say-FV COMP African.civet.clan(2) COP-2
   bàbyàalá  ò-kawúnpûlì
   ba-byal-a  o-Kawumpuli]
   2S-produce-FV AUG-Kawumpuli(1)

   ‘And the Baganda said that the African civet clan are the mothers of Kawumpuli.’

b. State-of-affairs (report of command/request)
   ñìbâkóbá  ákírì  tûbyålè
   ni-ba-kob-a  [akírì tu-byal-e]
   NAR-2S-say-FV at.least 1pls-give.birth-SBJV

   ‘They said, (that) we should at least produce.’

The morphosyntactic and semantic contrasts in examples (58), (59) as well as those found with propositional attitude predicates (propositional attitude vs. intention) and perception predicates (direct vs. indirect perception) (see sections 5.7 and 5.5) are comparable to e.g. English contrasts such as *She knows that he plays the piano* vs. *She knows how to play the piano* (see Section 2.5). As discussed in Section 5.5, the picture is somewhat less clear for perception-predicate complementation, a predicate class that has otherwise received much attention in studies of contrasts between states-of-affairs and propositions (specifically direct and indirect perception) in relation to other languages (Dik & Hengeveld 1991, Schüle 2000, Boye 2010).

Indicative complements and the complementizers *nti* and *oba* occur in constructions where the complement is arguably propositional (for an example with *oba* see Section 5.9). When the complement is indicative the complement-taking predicate functions as the kind of predicates that have been related to propositions, e.g. epistemic knowledge predicates, propositional attitude predicates and assertive utterance predicates (Cristofaro 2003, 2013, Noonan 2007, Boye 2012, Sørensen 2013, Sørensen & Boye 2015). Infinitives and subjunctives on the other hand generally express states-of-affairs. Non-epistemic modals as well as phasals, desideratives and directive utterance-predicates, which have been related to state-of-affairs (Cristofaro 2003, Noonan 2007, Boye 2012), occur with infinitives and/or subjunctives and do not occur with complementizers.

On the basis of the available data, the contrast between states-of-affairs and propositions can be said to be expressed quite systematically in Ruuli. Infinitive and subjunctive complements express states-of-affairs in contrast to indicative complements which express propositions. Thus, no one complement type appears to be completely polyfunctional between the two readings as is the case in some languages (Boye 2010: 407) – with the exception that epistemic modals can take infinitives expressing a proposition (but note that epistemic modals are not included in the class of modals in Cristofaro 2003, Noonan 2007). But there is tendency for complement-taking predicates to be polyfunctional and take more than one type of complement.

7. Conclusion and outlook

We have made a first attempt at a description of the morphosyntax and semantics of clausal complementation in Ruuli. We have identified and characterized the main complement-taking predicates and complement types and discussed the distribution of complements and complementizers. We have also discussed semantic features motivating complement structures, in particular the contrast between states-of-affairs and propositions.
Ruuli has a wide range of complement-taking predicates spanning most of the semantic classes identified cross-linguistically (Givón 2001, Cristofaro 2003, Dixon 2006, Noonan 2007). As in many other Bantu languages the main complement types are indicatives, subjunctives and infinitives, marked by final vowel -a, final vowel -e and class marker (o)ku-, respectively. We found that the infinitive affix has the form ku when the complement-taking predicate is negated and that there is free variation between oku and ku when the complement-taking predicate is not negated.

The most frequent complementizer is nti, which optionally introduces indicative complements, followed by nga, which typically follows perception predicates, and oba which indicates doubt towards the proposition in the complement.

We have shown that many types of complement-taking predicates systematically take morphosyntactically different complement types according to whether the complement expresses a proposition or a state-of-affairs. Classes of complement-taking predicates which have been associated with state-of-affairs complements cross-linguistically, like modals and phasals, take infinitive complements in Ruuli, while other predicate classes like knowledge predicates and utterance predicates take both indicative and infinitive complements with an associated semantic contrast between propositions and state-of-affairs. Indicative complements are generally used to express propositions while subjunctive and infinitive complements express state-of-affairs (except perhaps for perception-predicate complementation). The distribution of complement types relative to predicate types thus appears to be semantically motivated by the contrast between states-of-affairs and propositions and thus adds evidence to already observed cross-linguistic trends.

Similar complement contrasts, such as contrasts between indicatives and infinitives used to describe epistemic knowledge and ‘know how’, respectively, are found in existing descriptions of Bantu languages. However, future studies might benefit from systematically looking for possible contrasts with all predicate classes although they might be rare.

References


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