Vlada V. Baranova, National Research University Higher School of Economics (NRU HSE), St Petersburg / Institute for Linguistic Studies, Russian Academy of Sciences (ILS RAS), St Petersburg; vbaranova@hse.ru

Daria F. Mishchenko, Institute for Linguistic Studies, Russian Academy of Sciences (ILS RAS), St Petersburg / Museum of Anthropology and Ethnography (Kunstkamera), Russian Academy of Sciences (MAE RAS), St Petersburg; zenitchiki@yandex.ru

Non-verbal negation markers and the Negative Existential Cycle in Bashkir and Kalmyk with some typological parallels[[1]](#footnote-1)

The Negative Existential Cycle presupposes involvement of negative existentials in a cyclical process whereby negative markers evolve. The aim of this paper is to show that negative markers used with noun phrases can also change their functions and, in particular, transform into verbal negators. As evidenced by Turkic languages, non-verbal negators can be used with future and some past forms as an alternative to verbal negators or instead of them. In Central Mongolic, a negative marker that was initially used as a negative existential first evolved into a nominal negation marker and then intruded into the verbal system, becoming a standard negation marker. At the same time, in Kalmyk an ascriptive negator competes with it as a verbal negator. It should be noted that similar phenomena are found cross-linguistically in genealogically different languages. At first, the markedness of the non-verbal negators contributes to their emphatic meaning in such uses, but their frequent co-occurrence with certain verbal forms can further result in them replacing a verbal negator and becoming the only negator used with these forms. Secondly, we aim to show that changes in a language system of negative markers do not necessarily close a cycle but sometimes shape a “tree”, where a new element shares functions with older elements of the system, launching a new “branch” of changes, independent of the main line.

**Keywords:** Bashkir, future tense, Kalmyk, Mongolic languages, Negative Existential Cycle, non-verbal negators, Turkic languages.

1. Introduction

1.1. General notes

As shown in Veselinova (2016), the Negative Existential Cycle (NEC) is rarely completed. Most of the sampled languages examined in her paper turned out to be at stages with variation. Even in cases when the system has already restructured completely, the former standard negation (SN) markers remain on the “periphery” of the syntax (“constructualized negation” in Payne 1985). In this paper, we argue that the scenario of the changes within the Negative Existential Cycle should include, along with negative existentials, other non-verbal negators. These are constituent negator for nouns, ascriptive negation and possessive negation markers defined further below. As demonstrated by Mongolic and Turkic languages, such markers can participate in the NEC as well, occupying their own functional niche in competition with other negators. The aim of this study is to reveal these functions and to explain what ensures stability of systems where different negators – both verbal and non-verbal – co-exist.

A special type of the use of non-verbal negative markers as SN is the intrusion of nominal negation. Payne (1985: 228) mentioned rare cases when the marker of sentential negation has nominal properties (see also Miestamo 2017). For instance, Nadëb (mbj, Makú) has a nominal negator *dooh*, which functions as a SN marker (Weir 1994: 294–295). At the same time, this grammaticalization path includes a category change and extending functions of the negation marker, so that it may acquire new properties.

Therefore, it is reasonable to say that we need to rethink the diachronic change of non-verbal negation based on Croft’s seminal article (1991) to include in the discussion some other types of inroads of non-verbal negation into the sphere of use of standard negation. Moreover, we will show that there can be two or more processes of incorporation of different types of non-standard negation into the verbal negation system, which can influence each other and do not form separate cycles. The intrusion of non-existential, non-verbal negation into the domain of SN develops in conformity with a previous process of the expansion of existential negation and *vice versa*.

According to Payne’s (1997) classification, there are six types of nominal predicates: proper inclusion, equation, attribution, location, existence and possession. The literature on negation mostly establishes a reduced distinction between adjectival, nominal and locative predicates only (see Dryer 2007). The classification that is most relevant to our purpose is that of Ljuba Veselinova (2015). According to Veselinova (2015: 550), negative counterparts for predication without a verbal predicate – i.e. negators different from SN – are used for ascriptive (negation of the sentences with a nominal or adjectival predicate conveying the meanings of class inclusion, quality or a temporary state), locative, existential and possessive negation.

To test our hypothesis on the involvement of different non-existential non-verbal negators in the development of verbal negation, we will draw upon data of several types. Thus, this article consists of two parts: in the first part, we present and analyse in detail the data of two Mongolic and Turkic languages, Bashkir (bak) and Kalmyk (xal), where non-verbal negative markers different from negative existentials intrude into the system of verbal negation. Being acquainted with these languages through long-term fieldwork, we hope to be able to comprehensively depict their systems of negators, as well as the more subtle aspects of their use. In the second part of the article, we discuss cases of some other languages of the world in which a similar phenomenon – intrusion of a non-verbal negative marker different from the existential negator into the system of verbal negation – is observed, and try to find regularities in the use of non-verbal negators as verbal negators. It should be noted that this phenomenon has not been examined before, and there are no systematic typological studies on this issue so far. Based on our fieldwork data and several descriptions of the attested phenomenon from grammars of other languages, we thus provide a first description and tentative analysis of this pattern.

Following the first, introductory section, in Section 2 the data on the use of non-verbal negative markers in Bashkir and closely related Turkic languages is presented. Section 3 treats the evolution of the ascriptive and existential negation markers of Kalmyk due to changes in the system of Mongolic negation. Section 4 offers an analysis of examples of the intrusion of non-verbal negative markers different from negative existentials into the system of verbal negation that we found in grammars of genealogically different languages, namely Bornean languages and Egyptian Arabic. In Section 5, we identify and discuss some cross-linguistic regularities regarding this intrusion.

The main conclusion of the article is that the negators normally used for nominal negation and other non-verbal non-existential negative markers, when used as verbal negators, are still associated with some more specific meanings (such as emphatic negation), which determines their predominant use with certain verbal forms, ensuring the stability of systems where verbal and non-verbal negative markers co-exist and do not replace each other.

1.2. Data and context

Bashkir belongs to the northern subgroup of the Kipchak branch of Turkic languages, and genetically it is closest to Tatar. The Bashkir people were first mentioned in the 10th century. Up to the 19th century they shared the same literary language, Volga Turki (Old Tatar, Old Bashkir), a regional variant of Turki, with the Tatars. Volga Turki used an alphabet that was based on Persian Arabic script. Spoken Volga Turki, however, had regional varieties specific to the different ethnic groups that used it. Starting from the 1920s, a literary Bashkir language formed. Initially, it continued to be written in an alphabet based on the Arabic script; this was revised in 1923. It was replaced with a Latin-based alphabet in 1930, and in 1940 an expanded Cyrillic alphabet was adopted, which has been used till the present day (Yuldashev 1981: 11–12).

Currently Bashkir is the co-official (together with Russian) language of the Republic of Bashkortostan in central Russia, west of the Urals. It is also spoken in neighbouring regions, with a total number of approximately 1,200,000 speakers. There are three major dialects: Southern, Eastern and North-western; the first two are very similar and have served as the basis for the literary language.

Bashkir field data was collected in Rahmetovo and Baimovo, two villages in the Abzelilovsky region of the Republic of Bashkortostan, in 2011–2016. It consists of the texts from the corpus of oral texts recorded, transcribed and glossed during the field trips, and elicited sentences collected by using questionnaires. As an additional source, texts from the Folklore Archive of Bashkir State University (http://lcph.bashedu.ru/editions/efolk.php?go=folk\_id.28) were used. In order to ensure compatibility, only those folklore texts recorded in the Abzelilovsky region were taken into account. In addition, some constructions and forms were retrieved from the Internet.

Kalmyk (spoken in the Republic of Kalmykia, Russian Federation) belongs to the Western or Oirat branch of the Mongolic language family and has a total number of approximately 80,000 speakers. In the 17th century, Kalmyk Oirat split off from other Oirat dialects (as are spoken today in parts of Xinjiang and Inner Mongolia, China, the western part of Mongolia and Issyk Kyl province, Kyrgyzstan) and migrated into the current area of the steppe near the Volga River.

The major dialects of Kalmyk (Dörbet, Torghut and Buzava) are close to each other, except for small lexical variations. The standard language is mostly based on the Dörbet dialect. Kalmyk is an official second language in the Republic of Kalmykia.

Kalmyk field data was collected in the Ketchenerovsky region in the Republic of Kalmykia in 2006–2008 and 2014–2015. Data was collected via questionnaires and in the form of oral narratives, which have been compiled as a small corpus of Spoken Kalmyk in Toolbox (approximately 17,000 words). Other sources for Kalmyk are two online corpora and publications of several Written Oirat / Old Kalmyk texts. The relatively small Kalmyk National Corpus by A. Vankaeva (KNC, http://web-corpora.net/KalmykCorpus) consists of 800,000 words. The National Corpus of Kalmyk Language (NCKL, http://kalmcorpora.ru) comprises approximately 8 million wordsof various text types. Written Oirat is the language of historical documents written in the *Todo bichig “Clear Script”* in the 17th–19th centuries (see Rákos2015), and the subset of such texts written in Kalmykia can be termed *Old Kalmyk*. Here we use three source collections originally written in *Todo bichig* script over the span of one century: letters of Ayuki Khan and his circle (1710–1714; Suseeva 2003), letters of Dunduk-Dashi Khan (1741–1761; Kokshaeva 2011), and letters from different correspondents to Isaac Jacob Schmidt, a missionary and translator of the Bible into Kalmyk in the early 1800s (Krueger & Service 2002).[[2]](#footnote-2)

Both Bashkir and Kalmyk have a complex morphology with a rich system of suffixes for both nouns and verbs. The morphology is agglutinative, using affixes, and there are a lot of periphrastic constructions consisting of auxiliary verbs and various participles and converbs to express TAME meanings. Complex verbs formed by a converb and head verb play an important role in expressing different, mostly aspectual, meanings. Syntactically, they are characterized by SOV word order.

2. Use of nominal negative markers with verbs in Turkic languages

2.1. General description of negation in Bashkir

There are two ways to express negation in Bashkir: morphologically and syntactically. Along with verbal suffixes, negation can be expressed by negative copulas, i.e. by auxiliaries performing supportive function with non-verbal predicates (following Hengeveld 1992).[[3]](#footnote-3) The SN marker in Bashkir is *‑ma* (*‑mä*):

(1) Bashkir (questionnaires)[[4]](#footnote-4)

a. *Kärim kitap uqə-j*.

Karim book read-ipfv

‘Karim is reading a book.’

b. *Kärim kitap uqə-ma-j*.

Karim book read-neg-ipfv

‘Karim is not reading a book.’

If forming part of a derivational stem, the suffix *-ma* can be kept in a derived word, such as a deverbal noun (2):

(2) Bashkir (questionnaires)

*fakt-tar-ðəŋ döröθ bul-ma-w-ə*

fact-pl-gen truthful be-neg-nmlz-p.3

‘unreliability of facts’

Along with the verbal suffix *‑ma* (*‑mä*), three are other verbal negative suffixes in Bashkir: a negative suffix of the so-called “potential” future (Dmitriev 1948: 148) participle *‑maθ* (*‑mäθ*) and a suffix of the negative converb of attendant circumstances *‑majənsa* (*‑mäjensä*). The suffixes *‑maθ* and *‑majənsa* have developed from a combination of the SN marker *‑ma* with other suffixes and subsequent phonological changes. The former (*‑maθ*) derives from *-ma* and the suffix of the “potential” future *-r*, which later underwent the phonological change *r → ð → θ* typical of Turkic languages (Dmitriev 1948: 149). The following pair of sentences illustrates the use of affirmative and negative “potential” future forme:

(3) Bashkir (questionnaires)

a. *Min Mäskäw-gä kit-er-gä ula-j-əm*.

I Moscow-dat leave-pot-dat think-prs-1sg

‘I think I will go to Moscow.’

b. *Min Mäskäw-gä kit-mäθ-kä ula-j-əm.*

I Moscow-dat leave-neg.pot-dat think-prs-1sg

‘I think I will not go to Moscow.’

The etymology of *‑majənsa* is not so clear. Analysing forms in *‑majənsa* as negative equivalents of the converb in *‑ɣansa* (Dmitriev 1948: 188) is probably inappropriate, at least for data from Rahmetovo Bashkir. Indeed,*‑majənsa* does not seem to paradigmatically or formally correspond to any affirmative form, and it is perhaps best considered as an independent converb marker expressing the absence of secondary action (as discussed in detail in Mishchenko 2011). This is seen in (4) and (5):

(4) Bashkir (questionnaires)

*Min däres-kä kil-de-m kitap-tǝ*

I lesson-dat come-pst-1sg book-acc

*uqə-majənsa.*

read-neg.cv.att

‘I came to the lesson without having read the book.’

(5) Bashkir (questionnaires)

*Qəð beje-mä-j* / + *beje-mäjensä malaj jərla-j.*

girl dance-neg-prs dance-neg.cv.att boy sing-prs

‘The boy is singing, while the girl is not dancing.’

All this shows that the suffixes *‑maθ* and *‑majənsa* are not negative markers proper but rather cumulative markers expressing certain TAME meanings along with negation. They are strictly limited to some specific contexts and therefore do not bear on the focus of this article.

2.2. Non-verbal negation

The group of unbound morphemes expressing negation in Bashkir consists of the negative copulas *juq* and *tügel*.[[5]](#footnote-5) The first one is a negative existential predicator. The range of meanings it can express includes existential negation (6), negative “presentative” possession (in the sense of Hengeveld 1992), and “indefinite” possession (in the sense of Stassen 2009) (7), alongside negative non-presentative locative meanings (8). Paradigmatically, it is a negative equivalent of the affirmative existential copula *bar*.

(6) Bashkir (questionnaires)

*Aš-həw-ða öθtäl juq*.

food-water-loc table neg.ex.cop

‘There is no table in the kitchen.’

(7) Bashkir (questionnaires)

*Mineŋ mašina-m juq*.

I.gen car-p.1sg neg.ex.cop

‘I haven’t got a car.’

(8) Bashkir (questionnaires)

*Mineŋ kitab-əm öθtäl-dä juq*.

I.gen book-p.1sg table-loc neg.ex.cop

‘My book is not on the table.’

As shown in Mishchenko (2017), in the latter meaning *juq* competes with the second negative copula, *tügel*. The choice of a copula depends on the information structure of the clause. If a location is the topic, then the copula *juq* is used (9). If, by contrast, the topic is a localized object while the location is a comment, then the copula *tügel* will be chosen instead (10):

(9) Bashkir (questionnaires)

*Mineŋ keθä-m-dä täŋkä juq.*

I.gen pocket-p.1sg-loc coin neg.ex.cop

{– That coin I gave you, is it in your pocket? – No,} ‘there is no coin in my pocket.’

(10) Bashkir (Mishchenko 2017: 138)

*Juq, min Räxmät-tä tügel*.

neg.ex.cop I Rahmetovo-loc neg.cop

{(Talking on a cell phone:) – Hello, where are you, are you in Rahmetovo?} ‘– No, I am not in Rahmetovo.’

One can find *tügel* connected with the expression of contrastive focus: for example, ‘Rahmetovo’ in (10) can be presented as that contrasting current location of the subject, as opposed to other possible locations.[[6]](#footnote-6) Since such contrasts are sometimes irrelevant (especially outside a wider context), the negators can be mutually interchangeable:

(11) Bashkir (Mishchenko 2017: 138)

*Min kisä-ge šəltəra-t-qən-da äsäj*

I yesterday-adj ring-caus-pc.pst-loc mother

*eš-tä tügel* *ine* / *juq ine*.

work-loc neg.cop be.pst neg.ex.cop be.pst

‘Yesterday, when I phoned, my mom wasn’t at work.’

It is also interesting that copula *juq* can be used for negating predicates referring to age, in which a regular negator is *tügel* (12). But this usage is only possible in a specific situation: when expressing a scalar meaning of unachieved age (13a). And even in this case, *tügel* is possible, as seen from (13b):

(12) Bashkir (Mishchenko 2017: 138)

*Morat-qa ös jäš tügel, ä biš jäš* Ø*.*

Murat-dat three year neg.cop but five year cop

‘Murat isn’t three, he is five years old.’

(13) Bashkir (Mishchenko 2017: 139)

a. *Min Öfö-gä bar-ɣan-da un biš juq ine*

I Ufa-dat go-pc.pst-loc ten five neg.ex.cop be.pst

‘When I went off to Ufa, I wasn’t even 15 years old.’ (lit. I wasn’t 15 years old)

b. *Min Öfö-gä bar-ɣan-da un biš tügel ine.*

I Ufa-dat go-pc.pst-loc ten five neg.cop be.pst

‘When I went off to Ufa, I wasn’t even 15 years old.’ (lit. I wasn’t 15 years old)

The capability of *juq* to be used in such “scalar” contexts is understandable if one interprets reaching a certain age as its subsequent existence. Thus, the non-existence of the unachieved age is expressed by means of *juq*, as in (13a).

To return to existential contexts, it is important to note that the use of the negative existential depends on the tense and referential status of the NP in subject/object position. While *juq* is the only possibility when referring to the present (cf. (6)), with future time references only a verbal strategy with the verb *bul-* ‘to be’ and the standard negator can be used (14):

(14) Bashkir (questionnaires)

*Donja-la bal qort-o bötön bul-ma-jasaq*.

world-loc honey worm-p.3 whole be-neg-fut

‘Soon there will be no bees in the world.’

For past time references, both copula-based and verbal strategies are employed, depending on the communicative status of the NP in subject/object position:

(15) Bashkir (questionnaires)

*Mindä at juq ine.*

I.loc horse neg.ex.cop be.pst

‘I didn’t have a horse.’

(16) Bashkir (questionnaires)

*Min awǝl-da jäšä-gän-dä traktor-ǝm*

I village-loc live-pc.pst-loc tractor-p.1sg

*bul-ma-nǝ*.

be-neg-pst

‘When I lived down in the country, I didn’t have my tractor.’

In terms of the difference between sentences like (15) and those like (16), in sentences of the former type there is a generic NP in a subject position, while in sentences of the latter type the NP expressing a possessee is specific and definite.

Thus, in this respect Bashkir should be classified as a language of A~B type in NEC (Veselinova 2016): the negative existential *juq* is used in the present tense (6) and the SN marker *-ma-* is used in the future (14), while in sentences with past reference both negators are possible, and the choice depends on the referential status of the subject, as seen in (15) and (16).

The main sphere of use of the negative copula *tügel* comprises sentences with a referential predicate, i.e. predicate based on terms (referring expressions with a nominal head) and larger referential units (predications, propositions, clauses) (Hengeveld 1992: 77–91), such as (17):

(17) Bashkir (questionnaires)

*Min jað-əw-sə tügel* / *tügel-men.*

I write-nmlz-ag neg.cop neg.cop-1sg

‘I am not a writer.’

Example (17) also illustrates the fact that, as distinct from *juq*, *tügel* can optionally agree with the subject in person and number. All the interviewed speakers considered forms of *tügel* bearing a suffix of person and number agreement to be grammatical, although they do not generate similar forms themselves.

Other meanings of *tügel* include localization at a particular point on the time axis (for example, on a particular date, day of week, or at specific time of day) (18), inner states and states of environment (19), and “non-presentative” possession (Hengeveld 1992) or “definite” possessive (Stassen 2009) (20) meanings. The copula *tügel* also competes with *juq* when expressing a non-presentative locative meaning and a meaning of age, as was shown above. In present tense affirmative sentences of this type, there is a zero copula.

(18) Bashkir (questionnaires)

*Jəjələš kisä-gä tügel ine, ä joma*

meeting yesterday-dat neg.cop be.pst but Friday

*kön-dö bul-də.*

day-acc be-pst

‘The meeting was not yesterday, but on Friday.’

(19) Bashkir (questionnaires)

*Uram-da həwəq tügel.*

street-loc cold neg.cop

‘It is not cold outside.’

(20) Bashkir (questionnaires)

*Bəl urən hineke tügel*.

this place you.poss.subst neg.cop

‘This place isn’t yours.’

Broadly stated, the distribution of negative copulas in the Bashkir non-verbal sentences can be formulated as follows: *juq* negates existence of a generic entity, while *tügel* negates the object’s identity with a referential unit. This property of *tügel* manifests in non-sentential use as well. Apart from copulative use, *tügel* can be employed for constituent negation, as, for example, in (21):

(21) Bashkir (questionnaires)

*Min ður tügel alma* *aš-tə-m.*

I big neg.cop apple eat-pst-1sg

‘I ate a small [lit. not big] apple.’

The scope of *tügel* following an NP can include only part of it, for example, an adverb, like *bik* ‘very’ in (22):

(22) Bashkir (questionnaires)

*bik=ük aqəllə tügel keše*

very=same intelligent neg.cop person

‘not a very intelligent person’

2.3. Negative copulas in verbal clauses

What is especially important for the purposes of this article is the capability of negative copulas to be used in some verbal clauses. In Bashkir, existential copula *bar* is used with the so-called past participle (which in modern Bashkir can be the head of the main – or only – clause) to express experiential meaning (23) or some perfect meanings. As a negative equivalent of *bar*, *juq* is used in corresponding negative sentences (24):

(23) Bashkir (questionnaires)

*Min unǝ osra-t-qan-ǝm bar*.

I that.acc get-caus-pc.pst-p.1sg there.is

{– Have you ever met my sister? –}‘I have met her.’ (roughly ‘there is my having met her’ )

(24) Bashkir (questionnaires)

*Unda ber qasan=da bul-ɣan-ǝm juq*

that.loc one when=emph be-pc.pst-1sg neg.ex.cop

/?? *bul-ma-ɣan-ǝm.*

be-neg-pc.pst-1sg

‘I have never been there.’

A similar situation is found in other Turkic languages; see examples from Tatar (tat) (25) and Uzbek (uzb) (26):

(25) Tatar (Poppe 1961: 126)

*Anǝ hich kür-gän-em jük*.

that.acc never see-pc.pst-1sg neg.ex.cop

‘I have never seen him.’[[7]](#footnote-7)

(26) Uzbek (Sjoberg 1963: 123)

*Men kor-gan-im yoq.*

I see-pc.pst-1sg neg.ex.cop

‘I didn’t see.’

Therefore, in this respect, Bashkir and the other Turkic languages in which negative existentials can be used in similar past tense constructions should be classified as belonging to the B~C type. Hence, Bashkir is situated simultaneously at stage A~B and B~C, depending on which part of its negation system is concerned.

However, it is not only the negative existential *juq* that intrudes into verbal negation. The non-verbal negator *tügel* participates in forming negative finite verbal clauses as well. Thus, in Bashkir, as an alternative to the regular verbal negation of future forms, nominal negation can be used; for example, see:

(27a) Bashkir (questionnaires)

*Ul miŋä aqsa bir-mä-jäsäk*.

that I.dat money give-neg-fut

‘He will not give me the money.’

(27b) Bashkir (Say 2017: 349)

*Ul miŋä aqsa bir-äsäk* *tügel*.

that I.dat money give-fut neg.cop

‘He will not give me the money.’

It is worth noting that the future form *-asak*(*-jäsäk*) is etymologically a participle (Dmitriev 1948: 152), even though in modern Bashkir it is used almost exclusively as a finite form and has lost the attributive use. The origin of this form thus explains its compatibility with the non-verbal negator *tügel*.

It seems that in Bashkir there is no semantic difference between the two variants, a future form negated by a SN marker or non-verbal negator. However, the situation is different in Turkish (tur). Here, future verbal forms that are negated by nominal negation are interpreted as expressing a kind of higher degree of confidence. Compare neutral (28a) with the SN marker and emphatic (28b) with a nominal negation marker:

(28) Turkish (Ketrez 2012: 244)

a. *Size inan-****ma****-yacağ-im.*

you.dat believe-neg-fut-1sg

‘I will not believe you.’

b. *Size inan-acak* ***değil-im****.*

you.dat believe-fut neg.cop-1sg

‘Of course I will not believe you.’

A similar situation of use of nominal negation markers along with SN markers is found in many other Turkic languages, such as Tatar (Poppe 1961), Karachay-Balkar (krc) (Seegmiller 1996), extinct Chagatay (chg) (Bodrogligeti 2001) and others. The grammatical descriptions available to us do not always provide a clear description of the difference between these two strategies of negating future forms, and sometimes it is not obvious whether a difference exists at all. However, if any semantic specifics of sentences with nominal negation are mentioned, it is emphatic prominence or a higher degree of speaker confidence that the situation will not take place. This fits well with the observation on the nature of non-verbal negators by Horn (1989). He notes that it is common for a non-verbal negation marker to be used in verbal clauses in pragmatically marked contexts, for example, for contrastive or metalinguistic negation (Horn 1989: 446, 451–452).

There are also related languages in which the nominal negation marker is used with past verbal forms. An example of this is Tatar where perfect meanings can be conveyed by combinations of a past participle with both existential (30) and nominal negation (31). Compatibility of a non-verbal negator with this form is evidently explained by the fact that even when heading a clause, it is still of a nominal origin. Unfortunately, we have no data on how exactly the two constructions are distributed, though the contrast of both to a verbal form with SN, which is aspectually neutral, is evident (see (29)).

(29) Tatar (Poppe 1961: 69)

*Men ešlä-mä-gän-men*.

I work-neg-pc.pst-1sg

‘I didn’t work.’

(30) Tatar (Poppe 1961: 126)

*Anǝ hich kür-gän-em jük*.

that.acc never see-pc.pst-1sg neg.ex.cop

‘I have never seen him.’

(31) Tatar (Poppe 1961: 126)

*Jašlǝk uŋ-gan tügel*.

crop grow-pc.pst neg.ex.cop

‘The crops haven’t grown.’

2.4. Concluding remarks about nominal negation in Turkic languages

To sum up, the data of Turkic languages proves that nominal negation can intrude into verbal systems along with the negative existential, filling its own niche. Initially, its compatibility with certain verbal forms is explained by nominal – namely, participial – origin. At the synchronic level, when used with verbal forms, the nominal negation marker is associated with emphatic negation.

3. Verbal and non-verbal Kalmyk negation

3.1. General description of negation in Kalmyk

This section starts with a short overview of negation markers in Kalmyk. Modern Kalmyk has six distinct markers to express negation: namely, the preverbal negative particle *esǝ*, the preverbal prohibitive particle *bičä* and the postverbal negation markers *uga* and *bišǝ*, which also have the respective contracted variants *‑go* and *‑šǝ*. For the emergence of these suffixes and the corresponding grammaticalization process, see Baranova 2018. There is an asymmetry in the morphosyntactic organization of positive and negated predicates in that most of the negated verb forms are participles and converbs, as opposed to the finite verbal suffixes that dominate positive sentences.

The Section further contains a detailed description of the negative copula-like markers *uga* and *bišǝ* in non-verbal and verbal clauses. The preverbal prohibitive particle *bičä* is used with the different imperative forms of a verb, including all second person imperatives and the jussive form *‑txa*.

(32) Kalmyk (Oral Corpus)

*eeǯǝ, bičä*  *jumǝ ke-tn*!

grandmmother neg.imp thingdo-imp.pl

‘Grandma, don’t do anything.’

The preverbal particle *esǝ* is used mostly in subordinate clauses (see Baranova 2019).

(33) Kalmyk (NCKL)

*oda deer-än en šin oborudovani-gə esə*

now while-p.refl this new equipment-acc neg

*av-xla, xöön-nj öŋgär ir-š-go-ʁi-nj*

take-cvb.suc after-p.3 for.free come-pc.fut-neg-acc-p.3

*med-x kergtä*

know-pc.fut must

‘While as of now [we] haven’t received this new equipment, it is important to know that later on it won’t come free of charge.’

In what follows, we discuss the distribution of only two negators, *uga* and *bišǝ*, along with their contracted variants; the other two negators, being unable to negate declarative clauses, are excluded. Both *uga* and *bišǝ*, on the other hand, can function as SN markers. The negation marker *uga* is used in a rich variety of forms to express negation and fulfil different functions, including that of a nominal, existential and verbal negator. The negation marker *bišǝ* functions as an ascriptive negator (in the sense of Veselinova 2015) but also intrudes into verbal negation.

3.2. *Uga* and and *bišǝ* as non-verbal negators[[8]](#footnote-8)

To understand the current function of the negation markers discussed in this section, it is useful to start with a historical note. The word *uga* derived from *ugwai* ‘(there is) not, none’, while the grammaticalization path of *bišǝ* includes the reanalysis of an element *bisi*/ *bišǝ* ‘other’ > ‘other than’ > ‘not the one’ (Janhunen 2012: 250–251). The negation marker *uga* has some nominal properties in that it may take case marking in contexts in which it means ‘absent’, though such forms are not very frequent in Modern Kalmyk. In (34), the form *uga-ʁar* neg.cop-ins may be translated as ‘with lack (of permission)’.

(34) Kalmyk (Oral Corpus)

*xörǝ-n tavǝ-n duuna-d komendant-in selvǝg*

20-ext five-ext kilometer-dat commander-gen advise

***uga-ʁar*** *madǝn-dǝ jov-dǝg* ***alj uga***

neg.cop-ins 1pl-dat go-pc.hab where neg.cop

*bää-sǝn bol-ǯa-na*

be-pc.pst become-prog-prs

‘Without the commander’s permission, we could not get out anywhere (more than) 25 kilometres.’

Both markers, *uga* and *bišǝ*, may function as constituent negators, as in the second part of (34) where *uga* is postposed to the word *alj*  ‘where/which’ and expresses the spatial reference ‘nowhere’. The negation marker *bišǝ* mostly occurs with words that express attributive or adverbial meaning. It should be noted that Kalmyk adjectives are morphologically similar to nouns. There are a few roots in Kalmyk that in combination with *bišǝ* can be used attributively, such as *sän* ‘good’ versus *sän bišǝ* ‘bad’.

In negative non-verbal sentences, both negation markers correlate with the copula verb *bää-nä* ‘be-prs’, carrying the verbal markers in existential affirmative clauses and locative predicates. In spoken Kalmyk, the copula verb *bää-nä* ‘be-prs’ is often omitted, as in (35):

(35) Kalmyk (Oral Corpus)

*madn-də, un-är temän uga,*

1.pl-dat true-ins camel neg.ex.cop

*mörə-n, xö-n, bod-malə*

horse-ext sheep-ext cattle

‘Honestly speaking, there are no camels (on our farms), (only) horses, sheep, cattle.’

The negation marker *uga* occurs in non-verbal existential clauses.

(36) Kalmyk (Oral Corpus)

*sän jumǝ-n uga*

good thing-ext neg.ex.cop

‘There is nothing good.’

The negation marker *bišǝ* is functionally more diverse; it occurs in non-verbal sentences that negate a quality/attribute (37) or identity (38).

(37) Kalmyk (Oral Corpus)

*donta biš-i*

crazy neg-q

‘Isn’t she crazy?’

(38) Kalmyk (Oral Corpus)

*oda cag-tə uvəl uvel bišǝ*

now time-dat winter winter neg

‘Nowadays the winter is not (a real) winter.’

# *Bišǝ* can also be used to negate temporal localization (39).

(39) Kalmyk (questionnaires)

*asx-na hotə dolan čas-la*  *bišǝ*

evening-gen meal seven hour-com neg

‘The dinner is not at 7 o’clock (it will be at 8 p.m.).’

The negation marker *bišǝ* also occurs in the construction ‘not only … but also’; here it is an expletive or pleonastic negation (that is, a marker of negation without negative meaning, according to Horn 2010: 126).

(40) Kalmyk (Oral Corpus)

*terǝ ʁancxǝn gergǝ-nj bišǝ alj  ezǝvltǝ*

that single wife-p.3 neg.prs or property

*ol-ǯǝ av-čǝ*

find-cvb.ipfv take-evd

‘He has not only obtained his wife but also a kingdom.’

There is the context of locative predication where both negation markers occur. Example (41a) may be negated either by the existential negator *uga* or the negation marker *bišǝ*. The example (41b) with marker *uga* means that whatever is designated by the nominal in object position cannot be found under the table, so with a negative existential the object nominal receives a generic reading. In the variant in (41c) with the non-verbal negation marker *bišǝ*, ‘the ball’ is interpreted as specific and definite and it denies its particular location. Similar competition between a non-verbal negator and 'an existential negator that depends on focus can also be found in Slavonic languages (see Veselinova 2010: 197).

(41) Kalmyk (questionnaires)

a. *širä doorǝ mečik bää-nä*

table under ball be-prs

‘There is a / the ball under the table.’ / ‘The ball is under the table.’

b. *mečik širä doorǝ uga*

ball table under neg.ex.cop

‘There is no ball under the table.’

c. *mečik širä doorǝ bišǝ*

ball table under neg.prs

‘The ball is not under the table.’

As for the formal properties of the negators *uga* and *bišǝ* in non-verbal clauses, negation markers function as a copula which stands at the end of the clause and may carry personal verbal affixes (i.e. as *bišǝ* in example (42)). It should be noted that regular predicative adjectives or nouns cannot take such suffixes.

(42) Kalmyk (KNC)

*bi čon bišə-v*

1.sg.nom wolf neg-1sg  
‘I’m not a wolf.’

In a similar way, the negation marker *uga* may receive a personal marker. It also can take an indirect evidential marker *=č* (which clitisized from a former copula).

(43) Kalmyk (Oral Corpus)

*xojr kövü-n xojr küükǝ-n däkčǝ tedn-ä*

two boy-ext two girl-ext again 3pl-gen

*ǯil-in küük-tǝ uga=č*

year-gen child-pl neg.cop=evd

‘There are 2 boys and 2 girls and it looks like there is no more children with that year (of birth).’

It should be stressed again that the marker *uga* combines properties of a noun and a copula: when used in nominal negation, it may undergo nominal declination, while when used as a copula-like negation marker it combines with personal verbal affixes or the evidential clitic, which normally could be added to verbs.

Thus, to summarize, *bišǝ* functions as an ascriptive negator in non-verbal predications, while *uga* in non-verbal clauses states the absolute absence of the predicated entities. In the next section, we examine these markers in the function of verbal negators.

3.3. Negative copulas in verbal clauses

The main focus of this article is the capability of negation markers which originated as non-verbal negation to be used in some verbal clauses. The existential negator *uga* has extended to verbal clauses with non-finite verbal forms, including the past participle ending in-*sǝn* (it occurs as a counterpart for a form of past tense ending in-*v* in affirmatives), an anterior converb ending in-*ad* (for remote past ending in-*la*) and some other, more rare forms. The combination of the non-finite form with the negative copula *uga* is the neutral and only way to negate past-referring forms.

(44) Kalmyk (Oral Corpus)

*däkčǝ zarʁ-dǝ od-sǝn uga*

again court-dat go-pc.pst neg.cop

‘He hasn’t gone to court again.’

(45) Kalmyk (Oral Corpus)

*a*[[9]](#footnote-9) *madǝn tüü-n-dǝ tas mu ke-ʁäd*

but 3.sg that-ext-dat very bad do-cv.ant

*uga-vidn*

neg.cop-1pl

‘But we did not do anything awfully bad to him.’

There are several ways to negate verbs with non-past time reference: the copula-like *bišǝ* and the negative affixes -*go* and -*šǝ*. *Bišǝ* occurs with two participles: the future participle ending in*-x* and the habitual participle ending in-*dəg*. The etymologically participial forms in Modern Kalmyk can be used predicatively but tend to co-occur with an affirmative affix or clitic -*n/mən* (derived from the old copula *mön*). Even with the future participle, *bišǝ* negates the present states. When *bišǝ* occurs in the verbal predication with a future participle or a habitual participle, it has a modal component of meaning (obligation or permission) or leads to an emphatic expression. It should be noted that the negation marker *bišǝ* with the habitual participle and the future participle predominantly includes the affirmative affix -*n*, and the modal meaning may come from the combination of -*ǝm bišǝ*.

(46) Kalmyk (KNC)

*tednä tuskar mart-x-mǝn bišǝ*

3pl.gen about forget-pc.fut-aff neg.prs

‘One should not forget about them.’

(47) Kalmyk (questionnaires)

*sään kövü-d tii-gd-ǝm bišǝ!*

good boy-pl do.so-pc.hab-aff neg.prs

‘Good boys do not act like this!’

Another way of expressing SN with a non-past time reference in Kalmyk is the use of contracted suffixes that emerged from shortening the full negation markers during the grammaticalization process. The affixes are mostly used interchangeably with the whole negation markers *uga* and *bišǝ*, but there is a tendency in the distribution.

The affix *‑šǝ* is mostly used within the negated form of the future participle in *–x*, while the affix *‑go* occurs with the habitual participle in -*dǝg*, with the deverbal affix in -*l* or modal converb in -*l*, with the anterior converb in -ad and, most frequently, with the affix -*š* (Baranova 2018: 13), which is usually considered as a future participle allomorph with changing *x*>*š* before the negation marker -*go.* There isanother understanding of an element -*š* before the negation marker as the deverbal affix (Brosig, in preparation). Interestingly, the future participle ending in *-x* with affix *‑šǝ* expresses the negation of present tense (48), whereas the affix *‑go* with the same participle, as in (49), has a more straightforward meaning in that it tends to negate a future event.

(48) Kalmyk (Oral Corpus)

*nan-ta xamdan* ***unt-ča-x-šǝ***

1.sg-assoc together sleep-prog-pc.fut-neg

‘(She) does not sleep together with me {she is not laying on the bed now}.’

(49) Kalmyk (Oral Corpus)

*meklä-tä us-ar xotǝ ke-ǯǝ*

frog-assoc water-ins food do-cvb.ipfv

***bol-š-go***

become-pc.fut-neg

‘(She/he) cannot cook with water containing frogs.’

The negation marker -*güi* or other contracted variants from the cognate *ügei* (Kalmyk *uga*) have intruded into verbal negation in all Central Mongolic languages, and it is also attested in some Southern Mongolic languages (Brosig 2015: 70–81), thus suggesting a development that already started in the Middle Mongol period. But the extension of the ascriptive negator *bišǝ* and its contracted form *‑šǝ* into SN is only attested for Kalmyk/Oirat, Southern Mongolic Bonan (peh; Wu 2003) and Central/Southern Mongolic Eastern Shira Yughur (yuy; Nugteren 2003). In Bonan and Eastern Yughur, the marker -*ši* attaches to the future participle, too, but then negates future events. Only in Kalmyk/Oirat does the combination of the future participle plus *‑šǝ* have present time reference. So, the first steps in the grammaticalization of the existential negator *ügei* took place in several related languages, including all of Central Mongolic, while the second variant (from *bišǝ*) developed only in OiratEastern Yugur and Bonan, which as a Southern Mongolic language should only have participated in this innovation if at some historically indeterminate point in the past it was spoken many hundred kilometres north-west of its current position in the south-eastern Qinghai province of China. Thus, the non-compositional present tense meaning with the future participle developed only in Kalmyk/Oirat.

In Kalmyk, the marker *bišǝ* is less frequent than the negative copula *uga*, as shown in Table 1. The frequency of the negative affix -*šǝ*, in turn,is also lower than the affix -*go*.

Table 1: Frequency of *bišǝ* and *uga* and negation affixes in the written corpora.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *bišǝ* | *-šǝ* | *uga* | *-go* |
| NCKL | 17321 (2156 ipm) | 18288 (2286 ipm) | 67649 (8456 ipm) | 42260 (5282 ipm) |
| KNC | 1771 (2213 ipm) | 970 (1212 ipm) | 6390 (7987 ipm) | 2330 (2912 ipm) |

Nevertheless, the less frequent negation marker also can be used in some verbal clauses. So, the frequency of use itself is not the sole determining factor for the expansion into the verbal domain. This nominal negator intruded into the verbal system along with the negative existential marker. Analogically to the contracted variant -*go* from *uga*, it developed into an affix which is now used as SN. This requires some comments about SN in Middle Mongolian and its diachronic development.

3.4. The historical development of Mongolic and Old Kalmyk negation

Two different types of negatives in Mongolic languages are distinguished according to their position. Yu (1991: 3) called this the principle of “preverbal and postnominal” negativity marking in Mongolic. The original and (in terms of 13th-century synchronic morphology) non-derived verbal negators *ese* and *ülü* were used in Middle Mongolian (xng, 13th–15th centuries) and consistently placed before the predicate. Similarly, the prohibitive particles *bü*/ *bütügei* (> Modern Kalmyk *bičä*) always preceded the imperative form of a verb. On the other hand, the nominal negators *ügei*, *busu*/ *busi* and *üdü’üi* in Middle Mongolian were placed after the word that they negated. The main transformation of this negative system in Mongolic was the gradual replacement of the preverbal particles by the extension of the use of the existential negator *ügei* to verbal clauses (see esp. Yu 1991; Brosig 2015). This functional extension of *ügei* to verbal negation occurred with converbal and participial forms and is thus cross-linguistically typical for negative existentials intruding into the SN domain through their use with nominalized verbs, as stated by Veselinova (2016: 155).

The negation marker *ügei* took over SN. In terms of Croft’s model (1991), Central Mongolic languages including Kalmyk belong to type C, while in most other Mongolic languages an existential negation marker makes inroads into verbal negation (stage B~C) (as summarized in Brosig 2015: 128). Thus, the SN marker in most modern Central Mongolic languages developed from existential negation. But in addition to this process of expansion of negative existential negation into verbal negation, another grammaticalization process has taken place that involves the simultaneous extension of the ascriptive negator *bišǝ* into SN. That will be examined in the rest of this section.

In “The Secret History of the Mongols” (13th century), there are the words *busu* and *buši* ‘other’, which Yu (1991: 134) states were just phonological variants, with a prevalence of *busu* in early MM texts. Most contemporary Mongolic languages have inherited some variants of the item *buši* > *biši*.

The grammaticalization of the element *busu ‘*other’ into a negator of nouns starts in late MM (from the 14th century). Yu (1991: 127) mentions that as a lexical word ‘other’ it precedes the NP, while as a negation marker *busu* always follows the NP. In postnominal position, *busu* negates nouns, as in example(50):

(50) MM: Twelve deeds of the Buddha F40v (Poppe 1967: 49, 141, glossed by Brosig 2015: 105)

*ene mör ber jobalang-i maγad*

dem.prox path foc suffering-acc certain

*γar-γa-n cida-qu mör* ***busu*** *bu-i*.

exit-caus-cvb can-npst.pc path asc.neg cop-prs

‘This path is not the path that can save from suffering.’

In Old Written Kalmyk (17th–19th centuries), there was a negation marker *biši* and sometimes *bišai* (from MM *busu*). It was used in two ways: in some texts, *biši* functionsas a constituent negator, while in others it is a copula in non-verbal sentences.

In the letters written by Kalmyks in Kalmyk to Isaac Jacob Schmidt, the missionary and Mongolist who lived among that people between 1804 and 1806 (Krueger & Service 2002), in particular, it functions as a constituent negator which always directly follows the negated noun (i.e. has scope only over it). In 19 out of 23 examples in these manuscripts, it occurs as part of the formula *erke* *biši* capricousness neg ‘inadvertently, at once, immediately, without fail’. So, this usage looks similar to other expressions with a comparable meaning with negation *ügei*,which are more common, including a construction that is very typical for mail: *udal* *ügei* take.time-vrbl neg ‘without delay’ (Ibid.: 57).

Apart from this construction, the negation marker *biši* occurred in non-verbal predication.

(51) Old Written Kalmyk (Krueger & Service 2002: 27, Letter 9, lines 7–8)

*ike sayin mör-in* *bišai* *bilei*

very good horse-gen neg.prs be.pst

‘This is not [a sign] of a very good horse.’

In a stage of evolution that is probably subsequent to this stage, the negation marker *biši* occurs in verbal predication. In some less known manuscripts, such as the letters of Donduk-Dashi (1741–1761) (Kokshaeva 2011), there are some interesting cases of the use of *biši* with participles and other verbal forms.

(52) Old Written Kalmyk (Kokshaeva 2011: 167)

*ünen xudal-iyini labla-ji mede-kü biši*

true lie-p.3 specify-cvb.ipf know-pc.fut neg.prs

‘We do not know if it is true or false.’

The later manuscript “Legend about pilgrimage to Tibet Baaza-bakshi from Maloderbet” (from the late 19th or early 20th century) contains an example in which *bišǝ* occurs with a past participle in -*gsan* (53), which more commonly was negated by *ügei* (54).[[10]](#footnote-10) The form -*gsan* *bišǝ* is semantically rather different from -*gsan ügei*: it has an emphatic meaning with more broad scope and describes the negation of a presupposition, while the form -*gsan ügei* just negates an event designated by a verb; see (53) and (54):

(53) Old Written Kalmyk (Bembeev 2004: 103)

*sedkil-d-e:n sana-qu-du*

heart- dat-p.refl think-pc.fut-dat

*maniyi-gi küün küči:r* ***yabu-ulu-gsan******biši***

3pl-acc man by.force go-caus-pc.pst neg

‘(Although I am suffering so much I always) remember in my heart that that it was not so that a person sent us by force.’

(54) Old Written Kalmyk (Bembeev 2004: 103)

. *beye-ni cu-γa:r šarrqu bol-o:d od-bai ge-be*

body-p.3 all-ins wound become-cv.ant go-pst say-pst

*čigi* ***ükü-gsen ügei***

conc die-pc.pst neg.ex.cop

‘Although (our camels) went there becoming covered with wounds, they did not die.’

As shown in Sections 3.2–3.3, in Modern Kalmyk, the marker *bišǝ* is used as both a verbal and non-verbal negator. Compared to closely related languages, it looks more frequent than in Khalkha Mongolian, where it is used mostly in nominal sentences (Yu 1991: 123–125) or it is relatively seldom used as a verbal negator with participles (Janhunen 2012: 251).

The last point of interest is the emergence of the affixes -*go* and especially -*šə* from *uga* and *bišə*. In the absence of reliable data, it is hard to identify the period when the development of the contracted form and its dissemination in spoken Oirat took place. In the Old Kalmyk texts of the 18th–19th centuries which we analysed, there are no negative affixes. Probably they were used in the spoken Kalmyk of that time. According to Bembeev (2004: 114), there is a trace of the use of negative affixes in a manuscript on the verge of the 20th century.

3.5. Concluding remarks about Kalmyk negation

To sum up, the Kalmyk data shows a co-existence of two negation markers functioning on the synchronic level, both in non-verbal clauses and in verbal predication with non-finite form. Both markers developed a contracted form which is restricted to verbal clauses. The evolution of an existential negation into the verbal negation is typical of the NEC, and the negation marker *ügei* follows the cline. At the same time, Kalmyk is arguably particularly suited for the discussion, because its other non-verbal negator, *bisə*, evolved into a SN marker as well.

The item *bišǝ* developed in Middle Mongolian from an adjective *busu / bisu* ‘other’ into a negator for non-verbal negation*.* Thus, in Old Written Kalmyk, the negation marker *bišǝ* is used as a constituent negation with nouns and in non-verbal sentences. Then, it occurs with participles, in particular with future participles and occasionally with a past participle. So, the negation marker *bišǝ* extends its function and intrudes into the verbal negation. It is frequent in Kalmyk (possibly more so than in other Central Mongolic languages); unlike in most of those other languages, there it has grammaticalized to the affix of SN -*šǝ* in parallel with the contraction of *ügei* /*uga* to *‑go*.

4. Other cases of non-verbal negators developing into SN markers

4.1. General notes

The penultimate section of the paper deals with other possible types of evolution of nominal negation and its inroads into the domain of SN in some other, unrelated languages. As mentioned in Section 1, relatively little attention has been paid to the cross-linguistic description of non-verbal negation markers that have intruded into the verbal clause. The selection of cases was partly determined by the data available to the authors. Due to the limited number of sources, we focus on two aspects of the evolution of originally nominal negation to verbal negators: their use as emphatic negative markers and their compatibility with future verbal predicates.

Section 4.2 deals with emphatic negation as found in Bornean languages. Section 4.3 treats the asymmetric use of negators or, more precisely, cases when nominal negators “occupy” future tense negation, like in Bashkir (see Section 2 above), as exemplified by Egyptian Arabic.

4.2. Bornean languages

According to Kroeger (2014), Bornean languages,[[11]](#footnote-11) especially Malayic Dayak and languages of the Northeast Borneo subgroup, distinguish rather consistently between nominal and non-nominal negation. That is, different negators are used for verbal and adjectival predicates on the one hand and nominal predicates on the other, as in the following examples from Malay (ind, zsm; Kroeger gives examples from Standard Malay and from Indonesian, labelling both of them as “Malay”):

(55) Malay (Sneddon 1996: 195, cit. by Kroeger 2014: 1)

*Mereka tidak menolong kami.*

3pl neg help 1pl.excl

‘They didn’t help us.’

(56) Malay (Sudaryono 1993: 88, cit. by Kroeger 2014: 1)

*Saya tidak lapar.*

1sg neg hungry

‘I am not hungry.’

(57) Malay (Sneddon 1996: 195, cit. by Kroeger 2014: 1)

*Dia bukan* /\**tidak guru*.

3sg neg neg teacher

‘She isn’t a teacher.’

Thus, in Malay *tidak* is used with verbal (55) and adjectival (56) predicates, but it cannot be used with nominal predicates (57) – this function is fulfilled by *bukan*. The latter can also be used with verbs, but only if there is any emphatic meaning in the sentence, like in (58):

(58) Malay (Asmah 1982: 145, cit. by Kroeger 2014: 1)

*Dia bukan tidur tetapi ber-baring sahaja.*

3sg neg sleep but mid-lie.down only

‘He is not sleeping, but only lying down.’

The same is true for most Bornean languages: the nominal negation marker, which normally does not negate verbs and adjectives, can be used in verbal clauses to mark emphatic negation. Specific types of “emphatic” uses may include contrastive negation (59b), contradiction of a proposition that has been asserted or could be assumed (60b), focus marking of an argument (61b), or just unspecified emphasis (62b). The (a) cases in each pair of examples illustrate the use of the correspondent negator for negating nominal predicates.

(59) Mualang (mtd) (Tjia 2007, examples 9–102, 110, cit. by Kroeger 2014: 5)

a. *Ia’ ukay uma ku.*

that neg rice.field 1sg

‘That is not my rice field.’

b. *Ku ukay pulay. Baru’ ka’ angkat.*

1sg neg go.home just fut go

‘I am not going home; I am just about to leave.’

(60) Kimaragang Dusun (kqr) (Kroeger 2014: 7–8)

a. *Kada matagur, okon.ko’ tidi ku ika!*

don’t scold neg mother 1sg.gen 2sg.nom

‘Don’t scold me, you are not my mother!’

b. *Okon.ko’ bobogon dialo ilot tanak yo*

neg beat.ov 3sg that child 3sg

*dat maanakaw, suuon nogi.*

rel steal.habit order.ovprtcl

‘He doesn’t beat that child of his who keeps on stealing, he actually orders / sends him (to steal)!’

(61) Timugon Murut (tih) (example a in Brewis 1988: 10, cit. by Kroeger 2014: 8); (example b in R. Brewis et al. 2004: 612, cit. by Kroeger 2014: 8)

a. *Sala’=ka lalaing ku io.*

neg=prtcl child 1sg.gen 3sg.nom

‘He is not my child.’

b. *Sala’=ka aku mangansak ra kaluu’.*

neg=prtcl 1sg.nom cook acc rice

‘*I* didn’t cook rice.’

(62) Tatana’ (txx) (Chan & Pekkanen 1989: 6, 44, cit. by Kroeger 2014: 11)

a. *Loin ko disio baloi dino.*

neg prtcl his house that

‘That house is not his.’

b. *Loin ko idagang ku anak ku.*

neg prtcl be.sold 1sg.gen child 1sg.gen

‘It’s not like I’m selling my child.’ (said during bride-price negotiations)

Interestingly, Bornean languages also provide an example of the nominal negator being used as a part of double negation (together with SN) conveying a positive meaning. In Begak-Ida’an (dbj), *(a)pon*[[12]](#footnote-12) serves as a SN marker (63). The nominal negator is *pǝngka*, a contracted form of *(a)pon* with a discourse particle *ka*[[13]](#footnote-13) (64). In sentences with double negation like (65), both *(a)pon* and *pǝngka* are used, where *pǝngka* serves as the first negative marker with scope over the SN marker *(a)pon* as the second negator.

(63) Begak-Ida’an (Goudswaard 2005: 300, cit. by Kroeger 2014: 15)

*Siti apon mangan bakas*.

Siti neg eat wild.pig

‘Siti does not eat pork.’

(64) Begak-Ida’an (Goudswaard 2005: 304, cit. by Kroeger 2014: 15)

*Ino pa asu matay, pon.ka*[[14]](#footnote-14) *anak mo*.

yonder prt dog dead neg child 2sg.gen

‘This is a dead dog hey, this is not your child.’ [[15]](#footnote-15)

(65) Begak-Ida’an(Goudswaard 2005: 305, cit. by Kroeger 2014: 16)

*aku pǝngka pon atow muli, aku atow, ...*

1sg neg neg know return 1sg know

‘It is not the case that I do not know how to go home, I do know.’ (lit. I do not not know (how) to go home, I do know)

On the one hand, such use of nominal negation markers is just a logical extension of their emphatic use and/or their compatibility with focus markers. But at the same time, they demonstrate that nominal negators are considered by the speaker as an additional opportunity to express verbal negation when another means has already been employed. It seems that this opens the door for subsequent expansion of nominal negative markers into the verbal system.

To sum up, according to the current information, in almost all the Bornean languages nominal negators can be used to negate verbal clauses.[[16]](#footnote-16) However, their use with verbal predicates is limited to pragmatically marked contexts. There is some parallelism with the Turkic data discussed in Section 2, where nominal markers can be used with some specific verbal forms along with SN markers, bringing emphatic meaning, and more broadly with typological observations on the development of negative markers, such as that by Horn (1989), which testifies to the tendency for non-verbal negators to be used in verbal clauses for contrastive and narrow focus negation.

4.3. Egyptian Arabic

Egyptian Arabic (arz) and particularly its Cairene dialect differ from Standard Arabic in several domains of grammar, including negation. In Egyptian Arabic, there is a negative particle *muš*, which negates the nouns and adjectives which it precedes. This item is a result of grammaticalization of a negative particle plus a word meaning ‘thing’. Wilmsen (this volume) shows the broader context of negation *muš* in Arabic languages. It covers the meanings of negation of identification and attribution.

(66) Egyptian Arabic (Ramazan Mamedshakhov, pers. commun.)

a. *huwwa* *muš tˤaalib* *huwwa farraaf*

3.sg neg student 3.sg messenger

‘He is not a student, he is a messenger.’

b. *ʔil-beet=da* *muš kibir*

def-house=dem neg big

‘This house is not big.’

*Muš* as used in (66b) is not an existential negator, for which Egyptian Arabic employs a circumflex or doubled negative markers on the locative word *fii* ‘in’, as in (67a). It differs from Standard Arabic, which uses a particle *laa* ‘no’, as in (67b) for existential negation, which is also used as a SN for present tense events (Gadalla 2000: 232).

(67) Egyptian and Standard Arabic (Gadalla 2000: 234)

a.  *ma-fii-š riggaala fi-l-madiin-a*

neg-in-neg men in.the-city

‘There are no men in the city.’

b.  *laa rijaal-a fi-l-madiin-at-(i)*

no men-acc in.the.city-(gen)

‘There are no men in the city.’

SN in Egyptian Arabic is expressed by the combination of the proclitic *ma-* and affix -*š* (it also can be treated as a circumflex / discontinuous morpheme; see Gadalla 2000: 234), as in (68a). This combination of negative markers occurs in the past and present, but the only way to express verbal negation in the future is via the nominal negator *muš*, which co-occurs with the finite form of the future tense,[[17]](#footnote-17)as in (68b):

(68) Egyptian (Cairine) Arabic (Ramazan Mamedshakhov, pers. commun.)

a. *ʔil-raagil=da ma=rga<a>ˤ*-ø-*š*

def-man=dem neg=return<prf>return-3sg.m-neg

‘This man did not return.’

b. *ʔil-raagil=da muš ha-ji-rga<a>ˤ-*∅

def-man=dem neg fut-3sg.m-return<ipfv>return-3sg.m

‘This man will not return.’

Other examples of the negator *miš*/ *muš* as verbal negation in Egyptian Arabiccan be found in Wilmsen (this volume: PAGE). He states that *miš*/ *muš* with a verb instead of *mā- …* -*š* has pragmatic meanings, such as rhetorical or metalinguistic negation (Wilmsen, this volume). Meanwhile, our data – as well as examples from Wilmsen’s paper itself – show that in some cases it is a quite neutral way of negating future events.

4.4. Discussion of the typological context

The use of nominal negation markers with verbal predicates can be conditioned pragmatically, as can be seen from the data of the Bornean languages, or grammatically, as in Egyptian Arabic. The reasons for the first type of use seem to be more understandable: if a language possesses several negative markers, one can expect that the use of a marker originally supposed to be used as a non-verbal negation marker in a new context will be pragmatically marked – and, indeed, there are examples of this among the world’s languages. In contrast, the possibility of grammatical motivation towards the use of nominal negation markers requires explanations. We suggest that one such explanation may be in the nature of certain grammatical meanings (and, consequently, forms) that makes them “predisposed” to become negators other than standard verbal negators. Cross-linguistically, the future tense is an outstanding category, often being weaker and grammaticalized later than past and present tense (Lindstedt 2001: 771), with its semantics close to modality (Bybee et al. 1994: 280). This possibly makes future forms the best candidates to combine with new negative markers which intrude from non-verbal forms to standard negation, but further research is necessary in order to prove or disprove this speculation.

It should be noted that the situation is different in Egyptian Arabic and Bashkir. In the latter, future verbal forms are the only grammatical context where nominal negators can be used along with verbal SN markers, and no semantic difference is observed. In the former, the nominal negator has established itself as the only grammatical means to form negative future forms. In both languages a nominal negator does not add an emphatic semantic component. Alongside the languages described in this paper, there are other examples of use of the non-verbal negation marker in the function of verbal negation with future tense. For instance, “the attributive negator *gə̀nyi* has been grammaticalized as the SN negator for verbs with future and near-past time reference” in Kanuri (Veselinova 2016: 172). The traces of this pattern are also attested in a number of languages. However, a detailed description of the relation between non-verbal negators, their uses as focus markers and their subsequent uses as negators for the future tense still remains to be made.

One can expect that the markedness of the nominal negation marker will gradually wear out, it will expand its functional scope, and a new emphatic negative marker will arise (a well-known example of a similar semantic weakening of a negative marker is French *pas* in *ne … pas*, which has come a long way from the emphatic to a neutral strategy of negation). However, no evidence of such a process is observed in any of the languages examined here, though a more thorough investigation of the diachronic sources is necessary to definitively conclude this.

5. Conclusion

In this paper we have discussed several issues related to Croft’s Negative Existential Cycle. First, do the processes of change really occur cyclically, and if so, is there only one cycle? Second, what elements can be involved in it? Our initial data from Kalmyk and Bashkir bore evidence that changes taking place in a language system of negative markers do not necessarily close a cycle. The development of negation systems includes different new markers, where a newly introduced element shares functions with older elements of the system. Moreover, not only negative existentials but also other types of non-verbal negation can participate in this process.

One of the interesting points is a place taken by a new negation marker in the system of negation, as well as the relationship between nominal negators intruding into the verbal negation and negative existentials, which typically develop the function of SN in languages of the world. Observed cases show that there are different possibilities. For Kalmyk, we postulate an analogical evolution. The marker *bišə* develops from a marker in the non-verbal identity/ascriptive predication to assume the function of negation of verbal predication with participles and converbs in parallel with the development of the marker *ügei* / *uga*, which started this development earlier and underwent it in more Mongolic varieties. As for the Bornean languages and Egyptian Arabic, the intrusion of negative existentials into the domain of SN is not attested.

According to typological data, involvement of the non-verbal negative markers into the system of verbal negation can first exploit their markedness to express emphatic negation. It may be supposed that at the first step, they can be just another way to negate a verbal predicate, with an additional emphatic meaning, as compared to a neutral verbal negator. But their frequent co-occurrence with certain forms or high compatibility of the emphatic meaning with certain grammatical semantics can allow them to replace a verbal marker initially used with certain verbal forms and become the only way to negate them.

In particular, we have considered examples of the use of nominal negative markers with future forms, which seems to be a relatively frequent situation. Our sampled languages show different statuses of forms of nominal negation with future forms. In Bashkir and some other Turkic languages, the nominal negation competes with SN in the future tense. Egyptian Arabic displays a common way to negate an event in the future with the nominal negator *muš*. Thus, Egyptian Arabic should be classified as situated at a more advanced stage of the nominal negation’s intrusion into the verbal system, as compared to Bashkir and other Turkic languages, where a similar phenomenon is found. We suggest that such an association of the future with noun negation is explained by specific properties of the future tense as a grammatical category.

Abbrevations

1, 3 – 1, 3 person; acc – accusative; an – adjective-noun word order; aff – affirmative clitic; ag – agentive nominal; asc – ascriptive (negation); assoc – associative; caus – causative; com – comitative case; conc – concessive; cop – copula; cvb.ant – anterior converb; cv.att – converb of attendant circumstance; cvb.ipf – imperfective converb; cvb.mod – modal converb; dat – dative; def – definite; dem – demonstrative; evd – evidential; excl – exclusive; ext – extension (unstable consonant *-n* in nominative of some nouns which disappears in oblique cases); fut – future; gen – genitive; habit – habitualis; ins – instrumental case; ipfv – imperfective form; ipm – instances per million words; knc – Kalmyk National Corpus; loc – locative; m – masculine; mid – middle voice; mir – mirative / evidential; mm – Middle Mongolian; nckl – National Corpus of Kalmyk Language; nec – Negative Existential Cycle; neg – negation; neg.cop – negative copula; neg.ex – negative existential; neg.ex.cop – negative existential copula; neg.prs – negation of present tense; nmlz – nominalizaton; nom – nominative; npst – nonpast; ov – object voice; p – possessive; pc.fut – future participle; pcl.emph – emphatic particle; pc.hab – habitual participle; pc.pst – past participle; pl – plural; poss.subst – possessive substantivation; pot – potential future; prf – perfective; prog – progressive aspect; prt – discourse particle; prtcl – particle; prs – present; pst – past; q – question marker; rel – relative; rem – remote past («past temporal frame»); sg – singular; sov – subject-object-verb word order; sn – standard negation; tam – tense, aspect, modality.

Bibliography

1. Asmah Hj., Omar. 1982. *Nahu Melayu mutakhir* [Modern Malay Grammar]. 2nd ed. Kuala Lumpur: Dewan Bahasa dan Pustaka.
2. Auwera, Johan van der*.* 2009. The Jespersen cycles*.* In Elly van Gelderen (ed.), *Cyclical change*, 35–71. Amsterdam: John Benjamins.
3. Baranova, Vlada V. 2015. Negation markers in Kalmyk. *Preprint NRU HSE.* *Series WP BRP “Linguistics”.* 24. https://wp.hse.ru/data/2015/11/18/1082029038/24LNG2015.pdf.

# Baranova, Vlada V. 2018. Kak voznikayut novye formy otricaniya v kalmyckom yazyke [On the origin of new negative forms in Kalmyk]. *Uralo-altayskiye issledovaniya* 2(29). 7–17.

1. Baranova, Vlada V. 2019. The preverbal negation particle *esə* in Kalmyk: Historical development and typological context of negators in subordinate clause. *International Journal of Eurasian Linguistics*. 1(1). 21–45.

Bembeev, Evgeny V. 2004. *Lingvisticheskoe opisanie pamyatnika starokalmytskoy (oyratskoy) pismennosti: “Skazanie o khozhdenii v Tibetskuyu stranu Maloderbetovskogo Baaza-bakshi”* [Linguistic description of the Old Kalmyk (Oirat) writing: ‘Legend about pilgrimage to Tibet of Baaza-bakshi from Maloderbet’]. Moscow, Institute for Linguistic Studies RAS: PhD Thesis.

Bodrogligeti, András J. E. 2001. *A grammar of Chagatay* (Languages of the World, Materials 155). München: Lincom Europa.

Brewis, Kielo A. 1988. *Learn to Speak Timugon Murut: A Series of 25 Language Lessons*. Sabah Museum and State Archives, Series C no. 1.

Brewis, Richard, Majius, Philippa Silipah & Brewis, Kielo A. (eds.). 2004. *Kamus Murut Timugon–Melayu: dengan ikhtisar etnografi* [Timugon Murut – Malay Dictionary: With Ethnographic Sketch). Kota Kinabalu: Kadazandusun Language Foundation.

Brosig,Benjamin. 2015. Negation in Mongolic. *SUSA / Journal de la Société Finno-Ougrienne* 95. 67–136.

Brosig, Benjamin, in preparation. Negation in Khalkha Mongolian. In: Ljuba Veselinova & Matti Miestamo (eds.). *Negation in the languages of the world*. Berlin: Language Science Press.

Bybee, Joan L. & Perkins, Revere & Pagliuca, William. 1994. *The evolution of grammar: Tense, aspect and modality in the languages of the of the world*. Chicago.

Chan, Phyllis D. & Pekkanen, Inka. 1989. *Learn to Speak Tatana’. A Series of Twenty-Five Language Learning Lessons*. Sabah Museum series C, 3. Kota Kinabalu: Sabah Museum and State Archives.

Croft, William. 1991. The evolution of negation. *Journal of Linguistics* 27. 1–27.

Dmitriev, Nikolay. 1948. *Grammatika bashkirskogo yazyka* [A grammar of Bashkir]. Moscow – Leningrad: AS USSR Press.

Dryer, Matthew S. 2007. Clause types. In Timothy Shopen (ed.), *Clause structure* (Language Typology and Syntactic Description 1), 224–275. 2nd edn. Cambridge – New York – Melbourne – Madrid – Cape Town – Singapore – São Paulo: Cambridge University Press.

Gadalla, Hassan A. H. 2000. *Comparative morphology of Standard and Egyptian Arabic.* München: Lincom Europa.

1. Gelderen, Elly van. 2016. Cyclical change continued: Introduction. In Elly van Gelderen (ed.), Cyclical change continued, 3–17. Amsterdam: John Benjamins.

Goudswaard, Nelleke. 2005. *The Begak (Ida’an) language of Sabah*. Utrecht: LOT: Netherlands Graduate School of Linguistics.

# Hengeveld, Kees. 1992. *Non-verbal predication: Theory, typology, diachrony* (Functional Grammar Series 15). Berlin – New York: Mouton de Gruyter.

Horn, Laurence R. 1989. *A natural history of negation*. Chicago: University of Chicago Press.

Janhunen, Juha. 2012. Mongolian. (London Oriental and African language library 19.) Amsterdam: John Benjamins

Ketrez, F. Nihan. 2012. *A student grammar of Turkish*. Cambridge: Cambridge University Press.

Kokshaeva, Nina O. 2011. *Yazykovye osobennosti epistolyarnogo naslediya kalmytskogo khana Dokduk-Dashi (seredina XVIII veka)* [Linguistic features of epistolary archive by Kalmyk Khan Donduk-Dashi (mid-18th)]. Elista: Gerel.

Kroeger, Paul. 2014. Nominal and emphatic negation in Borneo. In Peter Sercombe, Michael Boutin, Adrian Clynes (eds.), *Advances in research on linguistic and cultural practices in Borneo (A memorial to Peter Martin)*. Borneo Research Council. Pre-publication draft. http://www.gial.edu/wp-content/uploads/paul\_kroeger/Kroeger-Borneo-neg-BRC-prepub.pdf (31 January, 2018).

Krueger, John R. & Robert G. Service. 2002. Kalmyk old*-*script documentsof Isaac Jacob Schmidt 1800–1810. Todo Biciq texts, transcription, translation from the Moravian Archives at Herrnhut. Wiesbaden: Harrassowitz.

Lindstedt, Jouko. 2001. Tense and aspect. In Martin Haspelmath, Ekkehard König, Wulf Oesterreicher & Wolfgang Raible (eds). Language Typology and Language Universals: An International Handbook, 768–783. Berlin: Walter de Gruyter.

Miestamo, Matti. 2017. Negation. In Alexandra Yu. Aikhenvald, Robert M. W. Dixon (eds), *The Cambridge Handbook of Linguistic Typology*, 405–439. Cambridge: Cambridge University Press.

Mishchenko, Daria F. 2011. Otritsanie v bashkirskom yazyke [Negation in Bashkir]. Report on the work done during the field trip to the village of Rahmetovo, Abzellovsky region, Republic of Bashkortostan. July 2011. Manuscript.

Mishchenko, Daria F. 2017. Neglagolnye predlozheniya bashkrskogo yazyka i sposoby vyrazheniya otritsaniya v nikh [Non-verbal predication in Bashkir and the ways of its negation]. *Acta linguistica petropolitana. Transactions of the Institute for Linguistic Studies of Russian Academy of Sciences*. XIII, 1, 110–146.

Nugteren, Hans. 2003. Shira Yughur. In Juha Janhunen (ed.), *The Mongolic languages*, 265-285. London – New York: Routledge.

Payne, John R. 1985. Negation*.* In Timothy Shopen (ed.), *Language typology and syntactic description*. Vol. 1: *Clause Structure*, 197–242. Cambridge – New York: Cambridge University Press.

Poppe, Nicholas. 1961. *Tatar manual. Descriptive grammar and texts with a Tatar-English glossary* (Indiana University Publications. Uralic and Altaic Series 25). Bloomington: Indiana University; the Hague: Mouton & Co.

Rákos, Attila. 2015. *Synchronic and diachronic comparative analysis of the Oirad dialects*. Budapest, Eötvös Loránd University: Doktori disszertáció.

Say, Sergey S. 2017. Lichno-chislovoe soglasovanie nezavisimykh glagolnykh skazuemykh v bashkirskom yazyke [Person and number agreement in Bashkir independent verbal clauses]. *Acta linguistica petropolitana. Transactions of the Institute for Linguistic Studies of Russian Academy of Sciences.* XIII, 1, 308–352.

Seegmiller, Steve. 1996. *Karachay* (Languages of the World, Materials 109). München – Newcastle: Lincom Europa.

Sjoberg, Andrée F. 1963. *Uzbek structural grammar* (Indiana University Publications. Uralic and Altaic Series 18). Bloomington: Indiana University; the Hague: Mouton & Co.

Sneddon, James. 1996. *Indonesian reference grammar*. London – New York: Routledge; St. Leonards NSW: Allen & Unwin.

1. Stassen, Leon. 2009. *Predicative possession* [Oxford Studies in Typology and Linguistic Theory]. Oxford: Oxford University Press.
2. Sudaryono. 1993. *Negasi dalam bahasa Indonesia: suatu tinjauan sintaktik dan semantik*. Jakarta: Pusat Pembinaan dan Pengembangan Bahasa.
3. Suseeva, Danara A. 2003. *Pisma Khana Ayuki i ego sovremennikov (1714–1724 gg.): opyt lingvosotsiologicheskogo issledovaniya* [Khan Ayuki and his contemporaries’ letters (1714–1724): An essay in linguo-social study]. Elista: Jangar.
4. Tjia, Johnny. 2007. *A Grammar of Mualang: An Ibanic Language of Western Kalimantan, Indonesia*. Leiden: LOT (Netherlands Graduate School of Linguistics).
5. Veselinova, Ljuba. 2010.Standard and special negators in the Slavonic languages: Synchrony and diachrony. In Björn Hansen (ed.), *Diachronic syntax of the* Slavonic languages, 197–210. Vienna: Wiener Slawistischen Almanach.
6. Veselinova, Ljuba. 2015. Special Negators in the Uralic Languages: Synchrony, Diachrony and Interaction with Standard Negation. In Matti Miestamo, Anne Tamm, Beáta Wagner-Nagy (eds), *Negation in Uralic Languages*, 547–600. Amsterdam: John Benjamins.
7. Veselinova, Ljuba. 2016. *The Negative Existential Cycle through the lens of comparative data*. In E. van Gelderen (ed.), *The Linguistic Cycle Continued*, 139–187. Amsterdam – New York: John Benjamins.
8. Weir, E. M. Helen. 1994. Nadëb. In Peter Kahrel & René van den Berg (eds.), *Typological Studies in Negation*, 291–323. Amsterdam: John Benjamins.
9. Wilmsen, David (this volume) Extensions and commonalities of negative existential cycles in Arabic. *This volume*
10. Wu, Hugjiltu. 2003. Bonan. In Juha Janhunen (ed.), *The Mongolic languages*, 325–345. London – New York: Routledge.

Yu, Wonsoo*.* 1991. *A study of Mongolian negation*. Bloomington: Indiana University, Department of Central Eurasian studies. Unpublished doctoral thesis.

Yuldashev, Akhnef A. 1981. *Grammatika sovremennogo bashkirskogo literaturnogo yazyka* [A grammar of the modern Standard Bashkir]. Moscow: Nauka.

1. We would like to thank the editors of this volume, Benjamin Brosig, and an anonymous reviewer for their valuable comments on earlier versions of this chapter, Ramazan Mamedshakhov and Sergey Klimenko for their help in interpreting the data of Arabic and Bornean, and our Bashkir and Kalmyk informants. This study was supported by the Russian Foundation for Basic Research, grant 16-34-01015 ‘Negation in Bashkir, Kalmyk and Nanai and its interaction with tense and aspect’. [↑](#footnote-ref-1)
2. We use transcriptions for our own data from texts and questionnaires, as well as for sentences from the online corpora. Examples from grammars and other publications are given in the author’s or editor’s transcription and with auhtor’s/editor’s translations, while parsing and glosses are ours. We translate sources in Russian into English. [↑](#footnote-ref-2)
3. According to Hengeveld, strictly speaking, one can distinguish between two subclasses of such auxiliaries, copulas (in a narrower sense) and semi-copulas. The first ones are semantically empty, while the second ones are not, i.e. the difference between the subclasses consists in that “the semi-copula adds an element of meaning to the construction in which it occurs, whereas the copula does not” (1992: 35). In this vein Bashkir negative predicators are actually semi-copulas. However, for the sake of brevity, we will call them copulas in a broader sense and gloss respectively, which is not an exceptional situation – even Hengeveld himself, “in a rather loose way” (Ibid.: 32), calls auxiliaries of the both subclasses copulas throughout his book. [↑](#footnote-ref-3)
4. Unless otherwise mentioned, all examples from Bashkir present the authors’ own data. [↑](#footnote-ref-4)
5. In an unpublished report on fieldwork (Mishchenko 2011), it is argued that one should postulate two homonymous units *tügel* at the synchronic level, particle and copula, because of the differences in their syntactic functions. However, it is not the only possible interpretation; *tügel* can be regarded as a single polyfunctional negative marker as well. Here we will not touch upon this question and will regard *tügel* in all types of use as one and the same unit. [↑](#footnote-ref-5)
6. As Ljuba Veselinova rightly notes, the same is true for its Turkish cognate *değil*. [↑](#footnote-ref-6)
7. Here and throughout this section, examples borrowed from grammars are given with our glosses and original translation; the spelling and punctuation of the original are kept. [↑](#footnote-ref-7)
8. This part of the section is an extended version of a description of Kalmyk negative markers in Baranova 2015. [↑](#footnote-ref-8)
9. Russian adversative conjunction. [↑](#footnote-ref-9)
10. In modern Kalmyk, the form of the past participle ending in *-sən* normally occurs with the negation marker *uga* or its contracted version *-go.* [↑](#footnote-ref-10)
11. “Bornean languages” are a group of Austronesian languages clustered according to a geographic principle. These include languages spoken on Borneo (Kalimantan), an island divided between Malaysia, Indonesia and Brunei. [↑](#footnote-ref-11)
12. This occurs along with *(n)inga’*, another SN marker. The author discusses the subtle differences between the two forms; however, they seem to be irrelevant for the purposes of the present study. [↑](#footnote-ref-12)
13. As Goudswaard (2005: 304) states, “The combination *pon ka* is most of the times pronounced as *pǝngka* rather than as *pon ka*: the vowel /o/ of *pon* being reduced to schwa.” [↑](#footnote-ref-13)
14. In the original work (Goudswaard 2005), this unit is written separately as two words, *pon ka*, according to its interpretation as a combination of the marker of sentential negation *(a)pon* with a discourse particle *ka* [↑](#footnote-ref-14)
15. Kroger’s translation of this sentence is not clear, but it is supposed to convey a general “emphatic” meaning, as in other cases. [↑](#footnote-ref-15)
16. Exceptions seem to be very few; Kroeger (2014) mentions Tombonuwo. [↑](#footnote-ref-16)
17. It should be noted that future tense in Egyptian Arabic is made up of two elements: the preterite of the grammaticalized verb *raaħ* ‘to go’ together with a verb in the present tense: e.g. *raaħ jiktib* ‘(he) will write’. [↑](#footnote-ref-17)