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Relators of comparison in Karaim and in Kazakh as spoken in China

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The paper deals with comparative constructions in Karaim as compared to Kazakh as spoken in China. It is demonstrated that through contact-induced changes highly endangered languages may become more complex than their more vigorous large cognates.

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The aim of this article

The aim of this article is to study how comparative constructions are coded in the moribund West Kipchak Turkic language Karaim. Another much more vigorous Kipchak language, Kazakh, will serve as a standard of comparison. Endangered languages are often claimed to be structurally less elaborate and morphologically less complex than large vigorous languages. In several articles, we have argued that the Karaim morphological system is still complex and exhibits, for instance, the typical Turkic categories in the field of modality (Csató 2012). Here, a review of the basic types of comparative constructions in Karaim will illustrate that this exceedingly small language employs an extended set of construction types in order to express comparison. Compared to Kazakh, Karaim constructions show great variation owing to the fact that the language has partly preserved the typical Turkic types and partly introduced new ones as a result of contact with non-Turkic languages.

The constructions of comparison will be described with respect to what relators they employ for marking the predicate and the nominal phrases representing Comparee and Standard NPs. Bound and free relators will be distinguished. Furthermore, we will distinguish between preposed and postposed free relators, i.e. those preceding and those following their complement.

1 We thank Irina Nevskaya for her valuable comments on a previous version of this paper.

Degree of grammaticalization

Johanson (in print) deals with the grammaticalization of nominal relators in Kazakh, suggesting a new kind of systematic classification that distinguishes between various degrees of grammaticalization. The highest level of grammaticalization is represented by case relators. The old opaque postpositional relators represent the second degree of grammaticalization followed by less grammaticalized and complex relators. In the following presentation of the Karaim comparative relators, we will refer to these degrees of grammaticalization.

Comparative constructions. Some basic typological distinctions

Comparative constructions typically consist of two noun phrases (NP) and a predicate. One of the noun phrases serves as the standard of comparison, NP^{stand}, and the other as the object of comparison, the comparee, NP^{comp}. Semantically, comparisons of inequality, equality and similarity can be distinguished (Stassen 2001: 993). Though role phrases are not comparatives, we also include them in this description because their coding can be similar to that of the comparative constructions. Comparative constructions of inequality and equality are illustrated here with English examples.

(1) English comparison of inequality

(2) English comparison of equality

 $\begin{array}{cccc} \textit{Mary} & \textit{is} & \textit{as} & \textit{beautiful} \\ \textit{NP}^{\textit{comp}} & & \textit{FREE COMPARATIVE RELATOR.AS} & \\ \textit{as} & & \textit{Judy.} \\ \textit{FREE COMPARATIVE RELATOR.AS} & \textit{NP}^{\textit{stand}} & \end{array}$

In (1) and (2), the NPs^{stand} are introduced by the free comparative relators *than* and *as*, respectively. The predicates are construed differently. In comparisons of inequality, the predicative adjective is in the comparative form, whereas in comparisons of equality, the predicate is introduced by the relator *as*. In the equality construction the predicate is also marked by the free relator *as*. Thus, in both constructions, both the predicate and the NPs^{stand} are marked by a relator.

In comparative constructions expressing inequality, either the standard of comparison may be assigned a fixed case, or the case corresponds to that assigned to the NPcomp (Stassen 2001: 994). Turkic languages typically represent the first type and apply an adverbial case, the ablative, to NPs^{stand}. The predicate is optionally marked by the free relator *daha* 'more' in Turkish. See below for more about the type in which the standard NP gets its case from the comparee.

(3) Turkish comparison of inequality

```
Ali Meryem'-den (daha)

NP<sup>comp</sup> NP<sup>stand</sup>-BOUND RELATOR.ABL FREE COMPARATIVE RELATOR.MORE büyük.
old

'Ali is older than Meryem.'
```

In Kazakh, the predicate in comparisons of inequality may optionally be marked by

a bound relator, i.e. the comparative suffix $\{-L^3A^2w\}$ or $\{-(I^2)rA^2K^2\}$, as in the following example; see Zhang (2004: 111–113). The NP^{stand} is marked with a bound relator, the ablative case suffix.

(4) Kazakh comparison of inequality

```
      Adil
      Maryam-nan
      aķīldī /

      NPcomp
      NPstand -BOUND RELATOR.ABL
      intelligent

      aķīldī-law /
      kṛṣṣ-rek.

      intelligent-BOUND COMPARATIVE RELATOR.LAW /
      small-BOUND COMPARATIVE RELATOR.RAK

      'Adil is more intelligent / more intelligent / smaller than Meryem.'
```

Another type of comparative construction expresses similarity; see (5). Example (6) illustrates the similar coding of role phrases.

(5) English comparison of similarity

(6) English role phrase

The most frequently used Kazakh comparative constructions are illustrated by examples (7–9). In equative type of constructions, the relator birdey 'equally', based on the numeral bir 'one' and the similative suffix $\{-D^2A^2y\}$, is frequently used following the NP^{stand}, which is marked by $\{-M^3A^2n\}$, the suffixed form of the postposition 'with'.

(7) Kazakh comparison of equality

MenMäryäm-menbirdeyakildi-min. NP^{comp} NP^{stand} -BOUND RELATOR.WITH FREE RELATORintelligent-COP1SG'I am as intelligent as Meryem.'

In constructions of similarity, the similative suffix {-D²A²y} marks the NP^{stand} itself.

(8) Kazakh comparison of similarity

Adilbulbul-daysayra-y-dï.NPcompNPstand-BOUND SIMILATIVE RELATOR.DAYsing-PRES-COP3SG'Adil sings like a nightingale.'

(9) Gül-dey jäynä!
flower- BOUND SIMILATIVE RELATOR.DAY bloom.IMP2SG
'May you bloom like a flower!'

Similarity constructions can also be built with postposed free relators. The postpositions serving as relators in such constructions are siyakti 'like, similar' $\leftarrow siyak$ 'appearance, image', sikildi 'like, similar' $\leftarrow sikil$ 'color', sekildi 'like, similar' $\leftarrow sekil$ 'form', alpetti 'like, similar' $\leftarrow alpet$ 'appearance'.

(10) ķar sivakti NP^{stand}snow FREE SIMILATIVE RELATOR.AS sïkïldï bala NP^{stand} child FREE SIMILATIVE RELATOR.AS sekildi kün NP^{stand} sun FREE SIMILATIVE RELATOR.AS adam älpettį NP^{stand} man FREE SIMILATIVE RELATOR.AS

'as snow / as a kid / as the sun / as a man'

In Kazakh, role phrases are based on *bolup* 'being', the converb form of the copula *bol*- 'to become, be'. Zhang describes *bolup* used in this function as a structural particle (2004: 692).

(11) Kazakh role phrase

```
Adilenjenerbol-upjumus iste-y-di.AdilNProle engineerFREE ROLE RELATOR.BOLUPwork-PRES-COP3SG'Adil works as an engineer.'
```

Karaim relators of comparison

Karaim comparisons of inequality

Karaim still employs the Turkic type of construction to express comparison of inequality by marking the NP^{stand} with a bound relator, the ablative suffix, and the predicate with the comparative suffix $\{-R^2A^2K^2\}$.

(12) Trakai Karaim proverb

```
Bügün-ńu čipčä yaχšī-raχ
today-ACC chicken good-BOUND COMPARATIVE RELATOR.RAK
tanda-γï tavuχ-tan.
tomorrow-KI NP<sup>stand</sup> hen-BOUND RELATOR.ABL
'A chicken today is better than a hen tomorrow.'
```

This construction, however, occurs less frequently than corresponding ones with free relators; for more about these see below. The use of the comparative suffix seems to be obligatory.

The similative suffix

The first opaque postposition dealt with by Johanson (in print) is a highly grammaticalized bound relator which goes back to the East Old Turkic postposition $t\ddot{a}$: g 'like'. In Kazakh, this old postposition is employed as a suffix $\{-D^2A^2y\}$. Zhang considers it to be a case marker (2004: 78–81). In Karaim, the suffix is found in the form H. $\{-\text{diy}\}$, T. $\{-\text{d'i}(y)\}$, but its occurrence is restricted to the following pronominal forms: H. $bu\acute{n}d\ddot{i}y$ [buŋuji] 'such' and H. $a\acute{n}d\ddot{i}y$ [aŋuji] 'such' (Musaev 1964: 177) and also T. $\acute{n}\acute{e}n\acute{d}\ddot{i}y$ [$n^ien^id^j$ ij] 'what a'. Zajączkowski (1932) does not mention this suffix. Deny et al. (1959) denote this suffix 'équatif, comparatif'. According to Pritsak, for instance, South Siberian Altay Turkic has a 'casus comparativus' $\{-DIy\}$ (1959: 583) and Khakas an 'Äquativ' $\{-DIy\}$. In the Karaim pronominal forms, the suffix is non-harmonic, always front. The change $\ddot{a} > i$ could take place in Karaim, in which low vowels preceding a [j] are raised in certain suf-

fixes. In Halich Karaim, this change may result in an i, e.g. $k\acute{e}t$ -fi- $yd\ddot{i}$ - $m < k\acute{e}t$ - $s\ddot{a}$ - $yd\ddot{i}$ -m 'had I left' (Csató & Johanson 2015).

The Karaim pronouns *buńd'iy*, *and'iy*, and *ńeńd'iy* function as pronominal adjectives and do not play any role in building comparative constructions of any type. Thus, the suffix {-d'iy} no longer functions as a relator but serves instead as a derivational suffix. These adjectival pronouns may be inflected, e.g. in number and case, like other nominal categories, or they can serve as complements of a postposition. See the following examples (according to Olach 2013).

(13) Halich Karaim biblical text

```
Kińi et-me-y-d'i an-d'iy-lär-ńi
envy-NEG-PRES-3SG that-DER-PL-ACC
kaysï-lar-ï kayt-ma-y-dïlar
which-PL-POSS3 return-NEG-PRES-3PL
'X does not envy those who do not return.'
```

(14) Halich Karaim biblical text

```
Buń-d'iy išt'inä män baγ-a-män.
this-DER POSTPOSITION.ON I look-PRES-1SG
'I look at such things.'
```

The opaque postposition kibik 'like'

One of the postpositions used in similative expressions—as in Turkic languages belonging to the southwestern branch—is $\acute{k}ibik$ 'like, as' in both variants of Karaim.

(15) Trakai Karaim comparison of similarity

```
arslan kibik

NP<sup>stand</sup> lion FREE SIMILATIVE RELATOR.AS

'as a lion'
```

The relator kibik assigns the genitive case to pronouns just as the corresponding postpositions do in other Turkic languages.

(16) Trakai Karaim comparison of similarity

```
an-ïn kibik
PRONOUN<sup>stand</sup>X-GEN FREE SIMILATIVE RELATOR.AS
'as X'
```

The following example illustrates the use of a similative construction in a sentence.

(17) Trakai Karaim comparison of similarity

mäń mači kibik

NP^{comp} I NP^{stand} cat FREE SIMILATIVE RELATOR.AS

ayač üśńü miń-äl'-mim.

tree POSTPOSITION.ON climb-POTENTIAL-NEGATION.PRES1SG

Kibik is used as a postposition, as, for instance, Turkish *gibi*. In Karaim, it has developed new syntactic properties. *Kibik* 'like, as' in Karaim functions as a comparative particle. Thus, the NP^{stand} derives its case from the NP^{comp}. In the following two examples, the NPs^{comp} *meńimki bayča-m-ni* [my garden-POSS1SG-ACC] 'my garden' and *ačuvun* [anger-POSS3SG-ACC] 'X's anger' are both assigned the accusative case by the verbs *saban śürd'u* 'X ploughed' and *tökt'u* 'X poured'. The NPs^{stand}, *baxča-sï-n* [own garden-POSS3-ACC] 'own garden' and *ot-nu* [fire-ACC] 'fire' derive their case from the NPs^{comp} (Csató 2001).

(18) Trakai Karaim

Dost-um

friend-POSS1SG

meń-im-ki bayča-m-nï

NP^{comp} [I-GEN-KI garden-POSS1SG-ACC]

öź bayča-sï-n kibik

 NP^{stand} [own garden-POSS3-ACC] FREE SIMILATIVE RELATOR.AS

saban śür-d'ü.

plough-PAST.3SG

'My friend ploughed my garden just like (he ploughs) his own.'

(19) Trakai Karaim

Tök-t'ü ot-nu kibik

 $pour-past 3 \quad NP^{stand} \; fire\text{-ACC} \quad \; \text{FREE SIMILATIVE RELATOR.AS}$

ačuv-u-n.

NP^{comp}anger-POSS3-ACC

'X poured his anger like fire.'

With regard to its syntactic position, i.e. the fact that it follows the noun phrase, kibik still behaves as a postposition. However, as the above examples illustrate, the construction NP + kibik is in this case different despite the fact that kibik itself can assign case to pronominal complements; see (16). These mixed syntactic properties of this relator make it especially interesting from a contact-linguistic point of view.

^{&#}x27;I cannot climb on trees like a cat'.

Opaque relators

The opaque relator *moro* 'like, as if', a global copy of Polish (miarą) 'measure', is used as a preposed particle in Karaim.

(20) Trakai Karaim comparison of similarity

t'üš-üp moro kök-t'äń, fall-IP.CONVERB FREE SIMILATIVE RELATOR.AS sky-ABL 'falling as if from the sky'

(21) Trakai Karaim comparison of similarity

an-in bol-du moro dost-u

X-GEN become-PAST3 FREE SIMILATIVE RELATOR.AS friend-POSS3

'X became for Y something like a friend.'

Pronouns following the particle are in the nominative. Compare this to the case-assigning property of $\acute{k}ibik$, as in (15).

(22) Trakai Karaim

moro biź FREE SIMILATIVE RELATOR.AS we 'like us'

The relator $\chi az / \chi as$ 'like, the same way, similarly' can be used in the same sense as *moro* 'as, like, as if' and may even modify *moro* to express 'just like'. We assume that χas is a colloquial and further grammaticalized variant of the relator kiyas / kiyasa to be presented below. The following examples of its usage are quoted from Baskakov et al. (1974).

(23) Trakai Karaim

χas erińčäk ešäk FREE SIMILATIVE RELATOR.AS lazy donkey 'like a lazy donkey'

(24) Trakai Karaim

Less grammaticalized relators

The Trakai Karaim relator T. kiyas [also occuring as kiyas] and its Halich Karaim form kiyasa [also kiyasa] are copies from Persian/Arabic. The form $\langle kiyasen \rangle$ is used in Turkish in the meaning 'by comparison, by analogy [with)'. In Uyghur, the form $\langle kiyasa\rangle$ is used as a relator meaning 'as, like'. The meaning of this relator is 'by comparison, like'. As mentioned above, this relator is used in the contracted forms $\langle xaz \rangle / \langle xas \rangle$ in the spoken language. This is also confirmed by the distribution of $\langle xiyas \rangle$ and $\langle xiyas \rangle / \langle xis \rangle / \langle xis \rangle$ and $\langle xiyas \rangle / \langle xis \rangle$

(25) Trakai Karaim biblical translation

```
Κi
         küń
               da
                     kečä avurlan-dï
                                                   üśťü-m-ä
because
         day
               and
                     night become.heavy-PAST3SG upon-POSS1SG-DAT
kudrat-ïy,
omnipotence of God-POSS2SG
buzul-du
               yašarmay-im;
decay-PAST3SG youth-POSS1SG
kïyasa
                            kuryaxliy-in-da
                                                   vaz-nin
```

FREE SIMILATIVE RELATOR.AS dryness-POSS3-LOCATIVE summer-GEN

'For your omnipotence is upon me day and night, my youth has decayed, as in the dryness of the summer.'

Firkovičius 1998: 46-47.

The interrogative relator of comparison

The interrogative pronoun *nečik* 'how' functions in Karaim as a comparative relator. As a result of selective copying from Slavic languages, interrogative pronouns are also used as subjunctors in embedded clauses. Thus, in the following examples, *nečik* 'how' is employed as a functional equivalent of the Russian relator *kak* 'how' as a subjunctor (26) and as a comparative relator (27).

(26) Trakai Karaim literary language

```
Da ayt, \acute{n}e \center{c}ik \acute{s} \cut{i}v-\ddot{a}-m an-\ddot{i}. and say.IMP2SG how love-PRES-1SG X-ACC 'And tell (X) how I love X.'
```

When functioning as a comparative relator, the interrogative pronoun $\acute{n}e \check{c}ik$ 'how' precedes the NP^{stand}. The predicative adjective is assigned the comparative suffix.

(27) Trakai Karaim spoken language

```
Yaxsi'-rax öź ńečik
good- BOUND COMPARATIVE RELATOR.RAK own FREE SIMILATIVE RELATOR.HOW köp da yat-nïn.
many and alien-GEN
'It is better (to have) less of one's own than more of others.'
```

Comparisons of equality, i.e. of the 'as Y as' type, have the same pattern in Karaim as in "Standard Average European" languages (Haspelmath 1998: 325), in which the relator consists of two elements, one modifying the predicate and the other modifying the NP^{standard}.

(28) Trakai Karaim spoken language

```
Ńečikandabar-t,aleyFREE SIMILATIVE RELATOR.HOW thereCOP.BAR-3SGFREE SIMILATIVE RELATOR.SObar-t.COP.BAR-3SG'It is just as it is.'
```

Role phrases

To express role phrases, some languages use constructions of the comparative type; see, for instance, the English example (6). In Karaim, a non-Turkic pattern has been copied. This implies that the predicative noun denoting the role is in the instrumental case. Karaim employs $\{-B^2A^2\}$, the suffixed form of the postposition meaning 'with', in this function.

(29) Trakai Karaim spoken language

```
Išle-y-t' ürät'üvčü-bä.
work-PRES-3SG teacher-bOUND ROLE RELATOR.WITH
'X works as a teacher.'
```

(30) Trakai Karaim spoken language

```
Išlä-d'i ürät'uvču-bä.
work-PRES-3SG teacher-BOUND ROLE RELATOR.WITH
'X worked as a teacher.'
```

The typology of comparison in Karaim

Compared to Kazakh, Karaim comparative constructions display features that can be explained as selective and global copies from non-Turkic contact languages. The old bound relator {-DIy} is no longer used as a comparative relator in similative constructions. The old postposition *kibik* 'like' is in use, but its syntactic properties

have been influenced by selectively copied combinational properties of contact languages. The old global copy kiyasa 'as', which goes back to Arabic, has been further grammaticalized and become an opaque free relator in the form χas . Its use and combinational features have been reinforced by corresponding comparative relators of contact languages, for example, of moro 'as', which has been globally copied from Polish. The Turkic pattern of marking role phrases has been replaced by case assigning.

Table. Types of comparative constructions

Constructions	English	Turkish	Kazakh	Karaim		
Inequality relators						
Predicate	bound or	none or	none or	none or		
	preposed free: more	preposed free: daha	bound relators: $\{-L^3A^2w\}$ $\{-(I^2)rA^2K^2\}$	bound relator: $\{-R^2A^2\dot{K}^2\}$		
NP ^{stand}	preposed free: than	bound: ablative case	bound: ablative case	bound: ablative case or preposed free: ńečik		
Equality relator	Equality relators					
Predicate	preposed free: as	none	none	none or preposed free: aley, etc		
NP ^{stand}	preposed free: as	postposed free: gibi, ka- dar	bound: {-M ³ A ² n} and free postposed: birdey	postposed free: kibik or preposed free: nečik, kiyasa, xas, moro		
Role phrase relator						
NP ^{role}	preposed free: as	postposed free: <i>olarak</i>	postposed free: bolup	bound: $\{-B^2A^2\}$		

Similative relators

Predicate	none	none	none	none
NPstand	preposed	postposed	bound: $\{-D^2A^2y\}$	postposed free:
	free: like	free: gibi,	postposed free:	kibik
		kadar	siyaķtï, sïķïldï,	or
			sekildi, alpetti	preposed free:
				kiyasa, γas, moro

The frequency of the various comparative constructions in Karaim has been influenced by the frequency of corresponding constructions in contact languages. Thus, for instance, in comparisons of inequality the NP^{stand} is less frequently marked by a bound than a free relator.

Notations

Graphic forms are given in angle brackets of the type ⟨ ⟩

Morphophonemic transcriptions are given in curly brackets of the type { }

Phonetic transcriptions are given in square brackets of the type []

← means 'is derived from'; < means 'has developed from'

Abbreviations

ACC	accusative	NP^{comp}	comparee
COP	copula	NEG	negation
DAT	dative	PL	plural
DER	derivation	POSS	possessive
GEN	genitive	PRES	present
н.	Halich Karaim	SG	singular
NPstand	standard of comparison	Т.	Trakai Karaim
		X	he she it

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