DEBATED ISSUES IN KARAIM HEBREW ORTHOGRAPHY

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The present study tries to elucidate how the Hebrew alphabet was used in different Karaim manuscripts. Religious and secular texts in all Karaim varieties provide a basis for the comparison. Since a comprehensive description of the relevant orthographic features would exceed the limits of this paper, only two of the most debated characteristics, namely the writing of the e and k sounds, will be discussed here. An analysis of numerous manuscripts makes it possible to provide a general description of certain tendencies and preferences in the use of certain letters or letter combinations in each Karaim variety.

Key words: Halich Karaim manuscripts, Lutsk Karaim manuscripts, Crimean Karaim manuscripts, Trakai Karaim manuscripts, Hebrew script used by the Karaim, the writing of e the sounds, the writing of the k sounds.

Introduction

The Turkic-speaking Karaim are followers of Karaitism, which is based on Karaite Judaism under the influence of Islam and lately of Christianity (Zajączkowski 1961, pp. 28–29). The main tenet of Karaite Judaism is “Search you through the Torah and do not rely on my opinion”, i.e. the Karaites accept only the Torah and reject the post-biblical literature, such as the Talmud (Nemoy 1978, pp. 603–604).

Karaitism arose in the 9th century in the territories of present-day Iraq, but its centre shifted from time to time from the Middle East to the Byzantine Empire in the

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13th century and then to Eastern Europe. With the shift of the centre, the language of Karaite scholarly literature changed as well from Arabic to Hebrew.

The scholars and leaders of the Karaim communities were educated in Hebrew and used the Hebrew alphabet for writing both in Hebrew and in their Turkic vernacular. Not only were translations of biblical texts and religious poems written in the Hebrew script, but also private letters (see Németh 2011). Although the Hebrew script remained in use until the 1940s, Karaim started to use the Cyrillic- and the Latin-based alphabets in the 19th century (Csató – Nathan 2007).

Sources Used in the Present Study

Karaim materials written with the Hebrew alphabet were first published in the 19th century and up to the 1940s. After a 30- to 50-year break, new sources – mostly religious texts – have been brought out lately by Turcologists and Hebraists (e.g. Sulimowicz 1972; Jankowski 1997; Csató 2011; Németh 2011; Shapira 2013). These publications have included texts in all varieties and sub-varieties of Karaim, which makes it possible to examine the Hebrew orthography of Karaim to determine whether overall systems or tendencies relevant to certain varieties can be described.

The following Karaim sources were used for the present paper: poems and biblical texts in Halich Karaim (Grzegorzewski 1903, 1917; Jankowski 2011; Olach 2013; 2014; forthcoming), short fragments of Bible translations in Karaim varieties (Kowalski 1929; Zajączkowski 1934), the Trakai Karaim translation of the Book of Proverbs (Firkovičius 2000), the Trakai Karaim translation of Psalm 91 (Csató 2011), Crimean Karaim translations of biblical texts (Sulimowicz 1972; Jankowski 1997), and private letters in Lutsk Karaim (Németh 2011).

In 1903, Jan Grzegorzewski published Halich Karaim religious poems written by Abraham Leonowicz, Josef Mordkowicz and Jakob Josef Leonowicz in the 19th century. Two further poems penned by Josef Ben Jeshua and Josef ben Shemuel in the 17th century were brought out in Język łach-karaitów (Grzegorzewski 1917).

Two prayers for the Day of Atonement written in Halich Karaim were made available by Jankowski (2011) with copies of the manuscripts attached.

Sixty pages of a Halich Karaim family Bible were published by Olach in 2013. The manuscript is in the possession of the Abrahamovich family who originally lived in Halich.

An evening prayer (PR2) and a morning prayer (F103 14–15) written in Halich Karaim were put out by Olach (2014 and forthcoming).

Copies of some fragments of Karaim Bible translations written in the Hebrew script were brought out by Kowalski (1929, pp. 282–289): the beginning of Genesis rendered in 1723 in Deraźnia; different fragments of the Book of Job in different

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1 See more about the history of Karaitism in Nemoy (1978).
Karaim varieties; and fragments of Halich Karaim and Crimean Karaim translations of the *Song of Songs*.

In his comparative study, Zajączkowski (1932; 1934) published short parts of four different Trakai Karaim translations of *Lamentations*.

The *Book of Proverbs* in Trakai Karaim was compiled or copied in 1798 in Šalčiai (Lithuania) by Shelumiel, the son of the aged priest Shemuel (Firkovičius 2000, pp. 169–170).

In 2011, a Trakai Karaim translation of Psalm 91 was made available by Csató. The manuscript is kept at the Library of the Lithuanian Academy of Sciences.

Prayers in Crimean Karaim translation were edited and published together with a copy of the manuscripts by Sulimowicz (1972).

Jankowski (1997) brought out the Crimean Karaim translation of *Genesis* 1:1–18; 6:9–18; 17:8–19; *Deuteronomy* 32:1–51; and *Lamentations* 4:11–15, 21. The manuscript for these biblical texts is kept in the Rylands Library collection in Manchester. Although no copy of the manuscript is attached to the article, Jankowski used a transliteration system that makes it possible to reconstruct the Hebrew orthography.

Németh (2011) published 16 letters and circulars written in Lutsk Karaim. Most of the texts were written in the 19th century, but three of them were penned in the early 20th. Six of the letters are vocalised, whereas four of the texts are only partly vocalised.

It is transparent from the list of materials used in this study that the corpus contains texts reflecting a spoken variety (the Lutsk Karaim private letters) as well as religious texts written by Karaim authors and translations of biblical texts. It must be emphasised that spoken Karaim differs significantly from the written language. Since creating and/or copying Bible translations has enjoyed a long tradition among the Karaim, the orthography of the biblical texts is more consistent and systematic. The Lutsk Karaim private letters, however, due to the subjective use of the Hebrew alphabet for writing in Karaim, show a variety of orthographic features (Németh 2011, pp. 100–101). Yet basic notions about the use of the Hebrew script seem common in Karaim communities, and the different varieties and genres demonstrate shared characteristics.

In the following, two debated characteristics of Karaim Hebrew orthography, namely the writing of the *e* and *k* sounds, will be discussed in detail; further research is required to describe other characteristics.

**Notation of the *e* Sounds**

The writing of the *e* sounds shows great diversity in Karaim. Furthermore, we must distinguish the notation in vocalised and non-vocalised texts. In what follows, I discuss the forms of writing of the vowel *e* according to its occurrence in vocalised and non-vocalised texts.

In the literature, two types of *e* sounds (an open ā and a closed *e*) are distinguished in the Lutsk-Halich Karaim varieties. According to earlier studies, the occur-
rence of the closed e – due to the process of qǐ > k’e – results from the influence of the surrounding Ukrainian varieties (Grzegorzewski 1917, pp. 7–8; Pritsak 1959, p. 327; Dubiński 1978, p. 36).\(^2\) On the other hand, Dubiński (1978, p. 36) describes another process in Lutsk-Halich Karaim: a > e before a syllable with the vowel i. Németh (2011, p. 73) suggests Western Ukrainian influence in this latter process as well.

The open a and the closed e are also distinguished in Crimean Karaim (Sulimowicz 1972, p. 42; Jankowski 1997, pp. 4–5). The closed e, however, occurs only in the first syllable (Jankowski 1997, p. 8).

Descriptions of the e sounds occurring in Trakai Karaim – sometimes introducing the idea of consonant harmony (see Kowalski 1929, pp. XXX–XXXI; Pritsak 1959, p. 328) – are often rather obscure (Kowalski 1929, pp. XXVIII–XXIX; Musaev 1964, pp. 46–47). Different qualities of e sounds which are distinguished even in the present Lithuanian-based orthography (see Firkovičius 1996), however, can be described: [e], [ɛ] and [æ] (Csató 2012, p. 36).

Now let us turn to the use of the different letters and letter combinations for writing the e sounds.

### In Non-vocalised Texts

The notation of the vowel e/ä often overlaps with the writing of the vowel i/i in Karaim non-vocalised texts;\(^3\) both are written with the letter ‘ālep + yōd in initial position, e.g. 11: 20 ezī ‘himself’ (אֶזִי) and 54\(^1\): 26 engi ‘now’ (אֶנגי) vs. 11: 15 isteme ‘to ask, want’ (אִסְטָמֶה) and 54\(^1\): 38 icin ‘for’ (אִכָּנ) (Németh 2011, pp. 385, 398).\(^4\) The initial e sounds, however, can only be signified with an ālep, i.e. without yōd as well, e.g. 8: 7 ekinci ‘secondly’ (אֶכִינָצִי) and 46\(^1\): 15 elimi ‘his death’ (אֵלִימי) (Németh 2011, pp. 382, 387).

Medial e is mostly rendered by yōd; in numerous cases, however, it may not be indicated at all, e.g. 8: 7 bitiklerine ‘to your letters’ (בִּתִיקלֶרִין) and 10: 5 kelme ‘to come’ (כֵלְמֶה) vs. 10: 16 izlewci ‘the one who seeks’ (איָלֱֶווָטֱֶצֶי) and 46\(^1\): 1 men ‘I’

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\(^2\) It seems that the qǐ > k’e process is less productive in Lutsk Karaim, which is understandable since it is not recorded in the Ukrainian varieties in the region of Lutsk (Németh 2011, p. 74).

\(^3\) In another consonantal alphabet of Semitic origin used for writing Turcik, that is, in Arabic script the same letter (yā) is used both for the notation of /e/ and /i/ (Róna-Tas 1998, p. 131).

\(^4\) In the quoted examples, my own transcription system is employed. I use the following vowel signs in my transcription: a, e, å, i, ï, o and u. The following consonants occur: b, c, d, f, g, g, h, j, k, q, l, n, p, r, s, š, t, w, z and ʻ. The letter š represents the Hebrew letter šîn/shin. In my transcription, I do not mark palatalisation. The original transcription of an example is given in square brackets only when it is relevant for the discussion.

\(^5\) The word ekinci is written with ‘ālep + yōd in initial position a few lines later in the same text: 8: 14 ekinci ‘secondly’ (אֶכִינָצִי) (Németh 2011, p. 382).

\(^6\) Németh writes the word as ’elيمي, that is, ’ālep + yōd is given in initial position; see footnote 305 in Németh (2011, p. 185). In the facsimile, however, I do not see a yōd written between the ‘ālep and the lāmej (Németh 2011, p. 387).
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According to Jankowski (1997, p. 5), like the vowel a, the vowel e/ā is usually not marked in medial position in the Crimean Karaim Bible translations.

In Vocalised Texts

The notation of the vowel ā is only indicated in the Trakai Karaim and Crimean Karaim sources. In Trakai Karaim, the combination pāṯaḥ + ūḏ is used to signify the vowel ā, e.g. kečänin ‘of the night’ (קצַהנִין) from Psalm 91 (Csató 2011, p. 15), telilār ‘fools’ (תילילר) from Proverbs 1 (Firkovičius 2000, p. 97), and keräkli ‘necessary’ (כֵירַיקל) (Kowalski 1929, p. 285). Sometimes, however, the vowel ā is only written with the letter pāṭḥ, e.g. in final position in the word haleginā ‘now’ (הַלֵגִינַא) and in the third syllable in kičirāklär ‘smaller ones’ (כִיצִירַכְלַיר) (Kowalski 1929, p. 285).

The letter pāṭḥ indicating open ā is general in Crimean Karaim, e.g. keṣā ‘night’ (כֵּצַא) mendān ‘from me’ (מֵנְדַן) in the Book of Job (Kowalski 1929, p. 287), 1 (13r°): 11 bizgā ‘to us’ (בִיזְגַה) and 2 (13v°): 15 eģār ‘if’ (אֶגְּר) (Sulimowicz 1972, pp. 65–66).

Further Hebrew letters and letter combinations are used to write the vowel e: sērē, səḡōl, sērē + ūḏ and səḡōl + ūḏ. A general overview of how the vowel e is written in Karaim manuscripts can be seen in Table 1 (see p. 188); that is, all the letters and letter combinations which have occurred in the manuscripts published so far are given here.

Now let us see whether all these forms of writing indicate any phonetic differences or not and whether there is any tendency within a certain Karaim variety?

Most of the forms mentioned above (sērē, səḡōl, sērē + ūḏ and səḡōl + ūḏ) can be attested in the Halich Karaim sources. Variants with the letter ūḏ are used in initial position, e.g. Nr. II: 8 erkim ‘my strength’ (אֶירְכִים) (Grzegorzewski 1903, p. 64), HKB 3: 13 erkek ‘male’ (אֶירֶק) (Grzegorzewski 1903, p. 66), F103 14–15: 14 elni ‘people (ACC)’ (אֶילְנִי), HKB 332: 6 enler ‘men’ (אֶנֶל), and F103 14–15: 16 ez ‘self’ (אֶז), while sērē and səḡōl only occur sporadically, e.g. HKB 489: 10 epkeyler ‘they shall kiss’ (אֶפְכֶײְלֶיר).

In final position, only variants with ūḏ are used, usually followed by the letter ālep, signifying a final vowel, e.g. Nr. II: 1 ēleme ‘to search’ (אֶלֶאַמְא), Nr. IV: 31 tirligine ‘to his life’ (גַרלִיגין) (Grzegorzewski 1903, pp. 64, 66), HKB 332: 12 sebe-otine ‘to the tribe of’ (סֶבֶיְתוֹנִין), HKB 1: 8 kece ‘night’ (כֵיצֵא), and F103 14–15: 17 klēgice ‘according to his will’ (כָּלַקְלֵיֶא). The ālep, however, is rather often omitted in this position, e.g. Nr. II: 1 yerde ‘on earth’ (יֵרְדֵא), Nr. III: 22 kelege ‘shadow’ (כֵילֶיגֶי) (Grzegorzewski 1903, pp. 64, 66), KUK: 1 kinde ‘on the day’ (כִינֶדֶא), KUK: 8 bizge ‘to

(כ) (Németh 2011, pp. 382, 384, 387). Yet this is not the case in suffixes, e.g. 541: 21 klemelēr ‘they did not want’ (כְּלֶמֶלֶר) (Németh 2011, p. 398). For final e, we find yōḏ or, slightly less frequently, ūḏ and ālep, e.g. 11: 12 haliginede ‘in these times’ (הַלֵגִינַא), 541: 18 ne ‘which’ (נֵא), and 10: 5 biyencine ‘to her wedding’ (בייֶנֶכֶיא).
Table 1. Hebrew letters and letter combinations for writing e sounds

<table>
<thead>
<tr>
<th>Hebrew orthography</th>
<th>Value of the vowel in Hebrew(^7)</th>
<th>Crimean Karaim</th>
<th>Trakai Karaim</th>
<th>Halich Karaim</th>
<th>Lutsk Karaim</th>
</tr>
</thead>
<tbody>
<tr>
<td>pāṯah ()</td>
<td>short a</td>
<td>a, ā</td>
<td>a</td>
<td>a</td>
<td>a</td>
</tr>
<tr>
<td>saḡōl ()</td>
<td>short e (open)</td>
<td>–</td>
<td>e</td>
<td>e</td>
<td>e</td>
</tr>
<tr>
<td>sērê ()</td>
<td>changeable long e (closed)</td>
<td>e</td>
<td>e</td>
<td>e</td>
<td>e</td>
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<tr>
<td>Combinations with yōḏ ()</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>pāṯah + yōḏ ()</td>
<td></td>
<td>–</td>
<td>ā</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>saḡōl + yōḏ ()</td>
<td>unchangeable long e (open)</td>
<td>–</td>
<td>e</td>
<td>e</td>
<td>e</td>
</tr>
<tr>
<td>sērê + yōḏ ()</td>
<td>unchangeable long e (closed)</td>
<td>–</td>
<td>e</td>
<td>e</td>
<td>e</td>
</tr>
</tbody>
</table>

us’ (\(נָו\)י) (Jankowski 2011, p. 166), and F103 14–15: 2 tenrige ‘to God’ (טֶנְרִיגֵי). In rare cases, the final e is written without yōḏ (and followed by ‘ālef): PR2: 8 tirlikke ‘to life’ (טירלייקֵי) (Olach 2014, p. 323), KUK: 8 hammese ‘continually’ (חֲמָמְסֵא) (Jankowski 2011, p. 166), and S: 14 yireklerinde ‘in the hearts of’ (יִירְקֶלְרֵינְדֵא) (Jankowski 2011, p. 167).

In medial position, all graphic variants occur in the Halich Karaim sources, but the proportion of variants with yōḏ is significantly higher than that of variants without it, e.g. Nr. III: 21 raχmetlerden ‘from mercy’ (רַחְמֶלְרֵדֶין), Nr. IV: 33 dert ‘four’ (דֶּרְט) (Grzegorzewski 1903, pp. 65, 66), HKB 1:1 keklerni ‘skies (ACC’ (כֶיקְלֵרְנִי), PR2: 10 kerti ‘true’ (קְרֵיִית) (Olach 2014, p. 323), F103 14–15: 5 berdi ‘he gave’ (בֶּרְדִּי), Nr. III: 26 iwretiwci ‘teacher’ (יִוְרֶטיֶקבָא), Nr. IV: 9 tengiz ‘sea’ (טֶנְגֵיס) (Grzegorzewski 1903, pp. 65, 66), HKB 7: 27 nege ‘why?’ (נֵיגֶא), and F103 14–15: 23 hec ‘empty’ (הֵיץ).

The use of allographs without yōḏ shows certain regularities: they are preferred in certain lexical items, e.g. tenri ‘God’ (רעֶני), and in the personal pronouns ‘I’ and ‘you’ as well as in the personal suffixes for the first and second person singular, i.e. men and sen. In general, the letter saḡōl is used in these cases, e.g. Nr. II: 15 sen ‘you’ (סֶנ), Nr. III: 21 tolusen ‘you are full’ (טֶולוּסֶן) (Grzegorzewski 1903, pp. 64, 65), HKB 8: 10 men ‘I’ (מֶן), and F103 14–15: 4 kelgensen ‘you came’ (מחֶגֶשְנֶא).

Sporadically, the usual form of writing with yōḏ is replaced by allographs without yōḏ. For instance, the regular way of writing the palatal form of the locative and

\(^7\) The value of Hebrew vowels can change according to stress patterns; see, for instance, the rules of vowel reduction (Lambdin 1971, pp. XIX–XX). For more, see the chapter on Sound and Spelling in Lambdin (1971, pp. XV–XXVIII).

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the ablative suffix (i.e. -de and -den) is with yōḏ, e.g. Nr. II: yerde ‘on the earth’ (יְרֵד), HKB 328: 16 kezlerinde ‘in the eyes of’ (קְזֵלְרֵינְדֵי), Nr. III: 21 ragmetlerden ‘from mercy’ (רַגְמֶטְלְרֵינְדֵי) (Grzegorzewski 1903, p. 65), and HKB 101: 17 erkinden ‘from your power’ (הֶרְקְדֵינְדֵי); however, in the same text it is sometimes written with the letter səḡōl: HKB 487: 18 iwlerinde ‘in their houses’ (אֵיוֹלְרֵינְדֵי), HKB 160: 25 elimden ‘from Elim’ (אֵיִלְמְדֵין), and HKB 487: 17 yerinden ‘from the land of’ (ײֶרְדֶן).

Examples with more than one form of writing can also be attested: Nr. II: 16 kerers ‘you will see’ (כֵירֶירְס) vs. Nr. II: 17 ker! ‘see (IMP)’ (כֵיר) (Grzegorzewski 1903, p. 64), HKB 7: 11 haligine ‘now’ (הָלִיגִינֶיא) vs. HKB 8: 12 haligine ‘now’ (הָלִיגִינֵיא) and HKB 161: 12 ne ‘what?’ (נֶיא) vs. HKB 5: 8 ne ‘what?’ (נֵיא).

Thus, the distinction between səḡōl and ṣērê seems to be a free graphic variation in Halich Karaim.

The use of the letter ṣērê is rather limited in the Halich Karaim sources, e.g. Nr. II: 21 yeʻudlarnï ‘Jews (ACC)’ (ײֵעוּדְלָרְנִי) vs. T2: 71 keśkin! ‘cut off (IMP)’ (כֵשְכִין) (Grzegorzewski 1917, p. 23), and HKB 489: 9 ceyalïģï ‘pretension of’ (צֵײָאלִיגִיא).

In the Lutsk Karaim sources, in contrast with the Halich Karaim materials, the letter səḡōl and its combination with yōḏ are widely used and the letter ṣērê and its combination with yōḏ rarely occur (Németh 2011, p. 108).

Initial e is usually represented as səḡōl + yōḏ, preceded by an ‘ā́ lep̄ to indicate the initial vowel, e.g. 6 (81): 6 ekinci ‘second’ (אֵיכִינְצִי) and 41: 7 ezi ‘itself’ (אֵיזִי) (Németh 2011, pp. 378, 386). In rare cases, the Hebrew letter is used without yōḏ; that is, only the letter səḡōl occurs, e.g. 9/2: 8 ezimiz ‘ourselves’ (אֵזִימִז) (Németh 2011, pp. 380, 394).

In medial position, the vowel e is usually signified by səḡōl + yōḏ, e.g. 3 (78): 18 bes ‘five’ (בֵיסְ) and 52: 11 widdïχatetmedim ‘I did not take rest’ (װִידִיחַטֵיטְמֵידִים) (Németh 2011, pp. 375, 394), or, a little less frequently, only with ṣērê, specially in the environment of the consonant y, e.g. 7 (82): 36 iyer ‘he will send’ (אִײֵר) and 52: 17 meni ‘me (ACC)’ (מֵנִי) (Németh 2011, pp. 380, 394). Final e is generally written with səḡōl + yōḏ, e.g. 5 (80): 7 bitiklerde ‘in letters’ (בִיטִקלֵרְדֵי) (Németh 2011, pp. 101–102, 377). The letter ‘ā́ lep̄ representing the final vowel can also occur after the letter combination səḡōl + yōḏ, e.g. 3 (78): 21 neksigede ‘to no one’ (נֵיקְסִיגֵידֵיא) and 51 (2): 31 kere ‘according to’ (כֵירֵיא) (Németh 2011, pp. 375, 392).

The letter səḡōl rarely occurs in the Lutsk Karaim manuscripts. In initial position, it is used with ‘ayin in the word 10: 8 Ešwowiczke ‘to Ešwowicz’ (ﬠֶשוֹויצְכֵי) (Németh 2011, p. 384). Sometimes səḡōl can be attested in medial position, e.g. 7 (82): 25 gezeradan ‘from the misfortune’ (גֶזְרַדָן) (Németh 2011, p. 380). The letter səḡōl does not occur in final position. As for the letter combination səḡōl + yōḏ, it can only be found in a few words, e.g. 54: 16 kemeydi ‘it does not come’ (כֶילְמֶײְדִי) (Németh 2011, p. 108).

As for the question of difference in quality indicated by the use of different letters, numerous examples seem to disprove such a hypothesis. In the Halich and Lutsk Karaim varieties, we would expect closed e in the first syllable and open ā in subse-
quent syllables. Although there are certain preferences in each variety, as the examples show, both sērē and səḡōl as well as their combinations with yōḏ are used in the first syllable in the Halich Karaim and Lutsk Karaim sources. Similarly, all the Hebrew letters and letter combinations for writing the e sounds occur in the second syllable or any syllable thereafter; however, the use of səḡōl and səḡōl + yōḏ is rather restricted in Lutsk Karaim, and no letters without yōḏ can be found in final position in the Halich Karaim texts. Thus, we cannot classify the Hebrew letters and letter combinations as being representative of certain vowel qualities. Words in several forms of writing might confirm this assertion as well.

The Crimean Karaim authors only use the letters sērē and səḡōl; letters combined with yōḏ do not occur. Both sērē and səḡōl are employed in initial and medial positions, e.g. 1 (13 v°): 5 ešitmedîk ‘we did not hear’ (אֵשִׁטְמֵדִכ), 4 (14 v°): 3 keldîm ‘I came’ (כֵלְדִם), 4 (14 v°): 12 endî ‘now’ (אֶנְדִי), and 2 (13 v°): 4 nečîk ‘as’ (נֶצִכ) (Sulimowicz 1972, pp. 65, 66, 68). There are words in which the two letters seem to be interchangeable, e.g. 3 (14 v°): 5 eģâr ‘if’ (אֵיגֵיר) vs. 2 (13 v°): 15 eģâr ‘if’ (אֶיגֵיר) and 2 (13 v°): 26 ettîk ‘we did’ (אֵטְטִכ) vs. 2 (13 v°): 14 ettîk ‘we did’ (אֶטְטִכ) (Sulimowicz 1972, p. 66). In final position, only the open ä is used (see above). Since a clear distinction exists between the writing of open ä and closed e in the Crimean Karaim orthography, the use of the letter sērē or səḡōl in different positions seems to be equivalent.

In Trakai Karaim, we mostly see the use of the letter combination sērē + yōḏ or the letter sērē (often in the environment of the consonant y), e.g. senî ‘you (ACC)’ (סֵינִי), kerâkîl ‘necessary’ (כֵירַיקִל), enûrîdîn ‘from God’ (אֶנְוָרִידִין), and âlî ‘so’ (אָלִי) (Kowalski 1929, pp. 285, 288; Firkovičius 2000, pp. 107, 110). The letter combination sērē + yōḏ usually occurs in initial position, e.g. edi ‘was’ (אֵידִי) and eger ‘if’ (אֵיגֵר) (Zająckowski 1932, p. 184; Firkovičius 2000, p. 98). In rare cases, however, the letter sērē is used in initial position, e.g. (for) etkäydim ‘I would have disdained’ (אֵטְכַיְדִימ) (Kowalski 1929, p. 285). The letter səḡōl rarely occurs, whereas the letter combination səḡōl + yōḏ is the least used form for writing the vowel e, e.g. yergâ ‘to earth’ (ײֶרְגַא) and nečîk ‘as’ (נֶצִכ) (Kowalski 1929, p. 285; Zająckowski 1932, p. 184). The latter two occur only in medial position. It is mostly open ä written with páṭhâh + yōḏ or páṭhâh that can be found in final position (see above), but, in some exceptions, the letter combination sērē + yōḏ (sometimes followed by ‘âlep) is used, e.g. vale ‘but’ (װâלֵי) and kelse ‘if he comes’ (כֵילְסֵיא) (Firkovičius 2000, pp. 103, 116).

As the examples demonstrate, the distinction indicated in the present Trakai Karaim orthography does not correspond to the distribution of the Hebrew letters and letter combinations used in the manuscripts.

To sum up, the following tendencies can be observed in the Karaim sources for writing the e sounds. Halich Karaim writers prefer to use letter combinations with yōḏ. In Lutsk Karaim and Trakai Karaim, it is mostly the letter combination sērē +

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8 Note that Firkovičius (2000, pp. 5, 14) transcribes the word kelse ‘if he comes’ as [kiel’sia], that is, sērē + yōḏ followed by ‘âlep denotes ä in this case, whereas the same letter combination is used for writing e in the word vale [valie] ‘but’.
yōḏ or the letter šērē that is used, whereas no letter combinations with yōḏ can be attested in the Crimean Karaim texts. See the details in the following table, where the sign +++ denotes the most often used form, ++ marks the rather usual form and the least used sporadically occurring letters and letter combinations are indicated with +.

Table 2. Tendencies for writing the e sounds

<table>
<thead>
<tr>
<th>Preferences</th>
<th>Crimean Karaim</th>
<th>Trakai Karaim</th>
<th>Halich Karaim</th>
<th>Lutsk Karaim</th>
</tr>
</thead>
<tbody>
<tr>
<td>pāṯah</td>
<td>+++</td>
<td>+</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>pāṯah + yōḏ</td>
<td>–</td>
<td>+++</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Letters without yōḏ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>šērē</td>
<td>+++</td>
<td>+++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>šōḡōl</td>
<td>+++</td>
<td>+</td>
<td>++</td>
<td>+</td>
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<tr>
<td>Letters with yōḏ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>šērē + yōḏ</td>
<td>–</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>šōḡōl + yōḏ</td>
<td>–</td>
<td>+</td>
<td>+++</td>
<td>+</td>
</tr>
</tbody>
</table>

Although the way in which the Hebrew letters and letter combinations are used does not always reflect the linguistic descriptions of Karaim varieties, certain tendencies can be observed. With regard to the writing of the vowel e in the Karaim manuscripts that use the Hebrew alphabet, the Crimean Karaim (i.e. the Eastern Karaim) orthography preferring letters without yōḏ is distinct from the orthographic features of the other Karaim varieties (i.e. of the Western Karaim). Meanwhile, a tendency can be observed among the Western Karaim varieties in the use of either šērē + yōḏ or simply šērē.

The Use of the Letters kap̄ and qōp

Two letters are used to write the consonant k in Hebrew: kap̄ כ and qōp ק. In Biblical Hebrew, the phonetic value of kap̄ is front k, while that of qōp is back q (Lambdin 1971, p. XXIII). In the Karaim sources, both letters are used to indicate the k sounds. Is it the case that the phonetic values represented by kap̄ and qōp in Hebrew are also represented as such in the Karaim manuscripts? Or are they used for signifying some other phonetic differences?

The question of the k sounds is not well described in the early literature on the Karaim varieties. It is usually the palatalising effect of ki and k’e on the preceding consonant which is noted (Grzegorzezki 1917, p. 6; Kowalski 1929, p. XLI; Zajączkowski 1931, p. 8). In the table of Karaim consonants, Pritsak only lists q, k’ and y as elements of the Halich Karaim consonant inventory. However, according to him, the
following \( k \) sounds can be found in initial position: \( q \)- and \( k \)-. Pritsak (1959, p. 328) observes that consonants become palatalised before the vowel \( i \) and that the palatalised consonants \( ĺ, ś, ź \) and \( ň \) occur before certain syllables, among them \( k,i \) and \( k,ā \). The vowel \( ā \) has basically no palatalising influence on surrounding consonants, except on the preceding \( k \) (Pritsak 1959, p. 327). According to Dubiński (1978, pp. 38–39), consonants in Halich Karaim undergo palatalisation in the environment of palatal vowels but the consonant \( k \) becomes palatalised only before the vowel \( e \), e.g. \( k,erme \) ‘to see’ and \( i,sk,ė \) ‘to work’.

As for a description of the notation of the \( k \) sounds in the Karaim manuscripts written with the Hebrew alphabet, there is a common point in the literature: \( kap̄ \) is basically used to write the \( k \) sounds in front words and \( qōp \) to represent \( k \) in back words (Munkácsi 1909, p. 192; Pritsak 1959, p. 327; Németh 2011, pp. 103–104). The occurrence of \( qōp \) in front words, however, is described and explained in different ways. Munkácsi (1909, p. 192) states that the letter \( qōp \) can occur between a palatal vowel and a consonant, i.e. in word-internal position. Pritsak (1959, p. 327) observes that \( k \) can be written with \( qōp \) in the syllable-final position. According to Sulimowicz (1972, p. 45), in Halich Karaim, \( kap̄ \) and \( qōp \) were used interchangeably and no rules defined their usage. Németh (2011, pp. 103–104) has proposed that the two letters in Lutsk Karaim tend to render the palatalised and the non-palatalised \( k \) sounds; that is, \( kap̄ \) is used for palatalised \( k \) and \( qōp \) represents non-palatalised \( k \).

In the Halich Karaim manuscripts, the letter \( kap̄ \) is generally used – mostly in initial and medial positions – to signify the consonant \( k \) in front words, e.g. in Nr. II: ‘\( klet \)!’ ‘want (IMP)’ (Grzegorzewski 1903, p. 64), T1: ‘\( keldim \) ‘I came’ (Grzegorzewski 1917, p. 19), HKB 393: ‘\( kelme \) ‘to come’ (Grzegorzewski, F103 14–15: ‘\( kleginbe \) ‘with your will’ (Grzegorzewski, Nr. IV: ‘\( miśkin \) ‘poor’ (Grzegorzewski 1903, p. 66), and HKB 1: ‘\( ekinci kin \) ‘the second day’ (T1: ‘\( qoyun \) ‘lamb’ (Grzegorzewski 1903, p. 65), T1: ‘\( qorqtum \) ‘I feared’ (Grzegorzewski 1917, p. 19), HKB 1: ‘\( garangiftu \) ‘darkness’ (Grzegorzewski, HKB 397: ‘\( cuqcumaği̱n \) your fomentation’ (Olach 2014, p. 323), and F103 14–15: ‘\( gabulluq \) ‘acceptance’ (Olach 2014, p. 323). It appears, however, even in palatal words, mostly in syllable- or word-final positions, e.g. T1: ‘\( kekten \) ‘from the sky’ (Grzegorzewski 1917, p. 20), S: ‘\( esiklerimi \) ‘my gates (ACC)’ (Jankowski 2011, p. 167), HKB 239: ‘\( ekśilśin \) ‘shall be cut off’ (Grzegorzewski 1903, p. 65), HKB 3: ‘\( erkek \) ‘male’ (Olch 2014, p. 323), and F103 14–15: ‘\( śirinlik \) ‘forgiveness’ (Olch 2014, p. 323).

In rare cases, the letter \( qōp \) occurs in initial position in front words, e.g. HKB 155: ‘\( 19\)’

\[9\] In the list of Halich Karaim consonants, there is no consonant \( k \), and \( kˊ \) is not mentioned in initial position; however, the examples provided by Pritsak (1959, pp. 327–329) include \( k,āl-gānālar \) ‘those who came’.

\[10\] Consider Dubiński’s (1978, pp. 38–39) examples with the consonant \( k \) before the vowel \( i: i,čki \) ‘drink’, \( i,čli \) ‘strong’ and \( miśkin \) ‘poor’.

kezlerin ‘your eyes’ (קֶיזְלֶירִין) and PR2: 6 kiri (tutqay!) ‘may he keep (me) alive’ (קִירִי) (Olagh 2014, p. 323).

In the Lutsk Karaim sources, there is also a tendency attested in the use of kap̄ and qōp. Similarly to the Halich Karaim materials, the letter kap̄ is used in front words and the letter qōp in back words, e.g. 41: 5 keldi ‘it came’ (קֵילְדִי), and 46: 11 terk ‘quick, quickly’ (טֵירְק), on the one hand, and 10: 4 golamen ‘I ask’ (גֶלָּמַן), 6 (81): 12 basga ‘other’ (בָּסַגֶא), and 9: 13 bas yapmaq ‘to cover (the bride’s) head’ (בָּסַפָּא) on the other (Németh 2011, pp. 378, 383–384, 386–388).

The letter kap̄, however, is also used in a few back words of foreign origin, e.g. 5 (80): 6 kabul ‘acceptance’ (כַבוּל), 10: 16 kanuzğa ‘to sire’ (כַנְוָצִּּגֶא) and 51: 11: 5 kawodlarïzga ‘to sire (PL)’ (כַבּוֹדְלָרִינִizoּ) (Németh 2011, pp. 377, 384, 391).

Nevertheless, the letter qōp often occurs in medial and final positions in front words, e.g. 3 (78): 28 ezinkileri ‘his (relatives)’ (אֵיזִינְקִילֵירוֹ), 54: 11: 31 kerkli ‘beautiful’ (כִירֵלָא), 2 (77): 25 terk ‘quick’ (כֵירֵיקָ), 2 (77): 25 kerek ‘necessary’ (כֵירֵיק), and 5 (80): 8 bitik ‘letter’ (בִיטִיק) on the one hand, and 10: 7 laskawïy ‘generous’ (לאסקאװײ), 8: 9 laskawïy ‘generous’ (לַאַסקאװײ), 2 (77): 3 necik ‘as’ (נֵיצִיק), and 7 (82): 22 yiśraellik ‘Karaims’ (ישראללִיק) on the other (Németh 2011, pp. 372, 376–377, 380, 398). Furthermore, the letter qōp is used rather often in initial position in front words, e.g. 3 (78): 11 kezlerinizde ‘in your eyes’ (כֵזְלֶרִינִיזְדֵא) and 52: 11: 9 kirgeysiz ‘you shall go in (PL)’ (קִירְגֵײְסִיז), and in derivatives of the verbal stem kle- ‘to want, wish’, e.g. 47: 11: 32 klep ‘wishing’ (כָּלַפָא) (Németh 2011, pp. 375, 389, 394).

There are items which are sometimes written with the letter kap̄ and other times with the letter qōp. The word kerkli ‘beautiful’, for instance, occurs five times in the Lutsk Karaim texts: four times with kap̄ in medial position and once with qōp. Derivatives of kle- ‘to want, wish’ appear seventeen times: twelve times written with kap̄ and five times with qōp. Further examples are 10: 7 laskawïy ‘generous’ (לאסקאװײ) vs. 8: 9 laskawïy ‘generous’ (לַאַסקאװײ), 2 (77): 3 necik ‘as’ (נֵיצִיק), and 54: 11: 38 kin ‘day’ (כַּיֶּנ) vs. 6 (81): 6 kin ‘day’ (כֵיָנ) (Németh 2011, pp. 372, 382, 384, 387).

Németh (2011, pp. 103–104) suggests that the reason behind the use of qōp in front words is the phonetic rule that it is always k that is signified by qōp in word-final position, not palatalised k'. Exceptions, on the other hand, can also be attested, e.g. 3 (78): 28 ezinkileri [ezinkileri] ‘the relatives of’ (אֵיזִינְקִילֵירוֹ).

The consonant k is always written with the letter kap̄ in front words in Trakai Karaim, e.g. kičiräklär ‘smaller ones’ (כַּלְרָכִיאָלְרָא), kibik ‘like’ (כִּיבִּיק), and emnilik ‘certainty’ (אֶמִילְּיָיק) (Kowalski 1929, p. 285; Firkovicius 2000, p. 100). In initial position in back words, back q is preserved in Trakai Karaim, while it changes to g in syllable- and stem-final positions (Pritsak 1959, p. 329). The phonetic difference, however, is not indicated in any position; the letter qōp represents both back q and k, e.g. yağširaq ‘better’ (יָאָגְסִירָאָק) and qorχmaq ‘fear’ (קוֹרְקַמְאָק) (Kowalski 1929, p. 288; Firkovicius 2000, p. 97). Thus, this characteristic in Halich and Lutsk Karaim orthography cannot be observed in Trakai Karaim. The only exception occurs in a translation which was in the possession of Zacharja Mickiewicz in 1929: eşeklär ‘donkeys’ (אֵשֵׁקְלַרָא) (Kowalski 1929, p. 282).
In general, front *k* is written with the letter *kap̄* in Crimean Karaim, and back *q* is represented by the letter *qōp*, e.g. 2 (13 v°): 2 köp ‘many’ (*קופ*), 5 (15 r°): 22 fikirimdän ‘from my thought’ (*פִֿיכִרִמְדַן*), 1 (13 r°): 6 qullarï ‘the slaves of’ (*וּלְלַרִיאק*). The distinction is also made in syllable- and stem-final positions; that is, front *k* is written with *kap̄* and back *q* with *qōp*, e.g. 2 (13 v°): 12 kökgä ‘to the sky’ (*כוֹכְ*), 3 (14 r°): 6 kibik ‘like’ (*כִיבִכ*), 1 (13 r°): 10 yaziqli ‘sin’ (*יַזִיקְלִי*), and 7 (16 r°): 4 bošatlïq ‘forgiveness’ (*בֹוֹשַׁטְלִק*). Thus, syllable- or stem-final front *k* is never written with the letter *qōp* in Crimean Karaim. In loanwords, however, the letter *kap̄* may occur in back words as well, e.g. 4 (14 v°): 21 aškaradïrlar ‘they are clean’ (*אָשְׁכַרָהדִרְלר*).  

Although the usual way of writing spirant *χ* in Crimean Karaim is with the letter *ḥēṯ*, e.g. 2 (13 v°): 18 gûnaχnï ‘sin (ACC)’ (*גוּנָחנִי*), sometimes the letter *kap̄* is used in conjunction with the diacritical mark *rāp̄ eh*, e.g. 3 (14 r°): 8 yazîliq ‘goodness’ (*יַכְֿשִילִק*).  

In summary, the Hebrew letters *kap̄* and *qōp*, based on the frontness and backness of a particular word, are used rather consistently in Trakai Karaim and Crimean Karaim. In Halich Karaim and Lutsk Karaim, on the other hand, besides the typical distribution of the Hebrew letters, *qōp* also occurs in front words and *kap̄* in back words. Table 3 illustrates the occurrences in the Halich Karaim and Lutsk Karaim manuscripts.

### Table 3. The use of the letters *kap̄* and *qōp* in the Halich Karaim and Lutsk Karaim sources

<table>
<thead>
<tr>
<th></th>
<th>In front words</th>
<th>In back words</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The letter <em>kap̄</em></td>
<td>The letter <em>qōp</em></td>
</tr>
<tr>
<td>Halich Karaim</td>
<td>+++</td>
<td>+</td>
</tr>
<tr>
<td>Lutsk Karaim</td>
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<tr>
<td>Lutsk Karaim</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

Given the results of my research, I cannot agree with Sulimowicz’s statement about the interchangeability of the letters *kap̄* and *qōp* in the Halich Karaim and Lutsk Karaim manuscripts. Numerous examples seem to contradict Németh’s assumption that *kap̄* signifies palatalised *k*’ and that *qōp* is used for non-palatalised *k*, for instance, the occurrence of *qōp* in initial and medial positions in front words which are transcribed with a palatal *k*’ by Németh (2011, pp. 375, 376, 377, 394): 3 (78): 11 kezlerinîzde [k’ezleriñizde] ‘in your eyes’ (*קֵזְלֵירִינִיזֵדֵיא*), 5 (80): 4 kelsen [k’elsen] ‘if you come’ (*קֵלְשֵין*), 5 (80): 4 Kiwerecki [Kiweŕeck´i] ‘being from Kiwerce’ (*קִיוֵרֵצְכִי*).  

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The unexpected use of the letter kap̄ in initial position in certain front words, e.g. the twelve occurrences in words derived from the stem kle- – which, applying Németh’s rule, had to be transcribed as k’le- ‘to want, wish’ – might be due to the reflection of the original front k- in this position: tile- ‘to want, wish’ > k’ile- > kle-. Most of the unusual appearances of the letter kap̄ in back words can be explained by the maintenance of the original form of writing, e.g. in the original Hebrew word kawod ‘sir, sire’ and its derivation kanuz ‘sir, sire’ (< kawnuz < kawodunuz) < Hebrew ḫāwōd ‘honour, splendour, glory’ (כַּוֹד).

It seems that the orthography does not reflect the theories and assumptions on the representations of the k sounds and that there are still many questions left open about the use of the letters kap̄ and qōp. Involving new manuscripts in the research might bring us new results.

Conclusion

As the examples have demonstrated, new editions of texts in different Karaim varieties provide a good basis for a description of Karaim orthography. Based on the writing of the e sounds and the use of different Hebrew letters for realising the k sounds, we can see that it is not possible to describe a unified orthography applicable to all Karaim varieties. On the contrary, a different writing system is used for each Karaim variety. An analysis of the Karaim manuscripts, as we have seen, makes it possible to describe dialectal tendencies. So far, the Crimean Karaim orthography, which avoids the use of several letter combinations and complicated rules, seems to be the simplest one, whereas the most complicated rules and most letter combinations are employed in the Halich Karaim and Lutsk Karaim varieties.

Abbreviations

Sources

F103 14–15 a morning prayer written in Halich Karaim, published by Olach (forthcoming)
HKB Halich Karaim Bible, the Halich Karaim translation of biblical texts published by Olach (2013)
KUK Ki uspu kinde, a prayer for the Day of Atonement written in Halich Karaim, published by Jankowski (2011)
Nr. II a poem written in Halich Karaim, published by Grzegorzewski (1903)
Nr. III a poem written in Halich Karaim, published by Grzegorzewski (1903)
Nr. IV a poem written in Halich Karaim, published by Grzegorzewski (1903)
PR2 an evening prayer written in Halich Karaim, published by Olach (2014)
S Sandyr, a prayer for the Day of Atonement written in Halich Karaim, published by Jankowski (2011)

T1 a poem written in Halich Karaim, published by Grzegorzewski (1917)

T2 a poem written in Halich Karaim, published by Grzegorzewski (1917)

Glosses of Karaim examples

<table>
<thead>
<tr>
<th>ACC</th>
<th>Accusative</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMP</td>
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<tr>
<td>PL</td>
<td>Plural</td>
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</table>

References


