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ON THE CONSONANT ADAPTATION OF ARABIC (AND SOME PERSIAN) LOAN-WORDS IN AN OTTOMAN TURKISH DICTIONARY BY ARCANGELO CARRADORI (1650)

Keywords: Ottoman Turkish, Turkic, Arabic, Persian, transcription texts, Transkriptions-texte, Arcangelo Carradori, linguistic contact, lexicography, historical phonetics

Abstract

In this study an analysis of the phonetic adaptation of Arabic and Persian loan-words in Ottoman Turkish is continued (for the vocalic part of the analysis see Stachowski M. [forthcoming]). Five phenomena are presented in the context of the general Turkic phonetic evolution. These are: [a] palatalization of $(-)kE- > (-)çE-$; [b] varying anlaut nasality: $m- > b-$ and $b- > m-$; [c] despirantization of $f > p$; [d] epenthetic n ; [e] shortening of geminates.

1. General remarks

Luciano Rocchi's (2011) publication of a 17th century Ottoman Turkish dictionary by Arcangelo Carradori made it possible to observe certain features in the phonetic adaptation of Arabic loan-words in (mostly, as it seems, colloquial) Ottoman Turkish. The importance of his attestations and the problems connected with their analysis were discussed briefly in a previous article that focused on vowel adaptation (Stachowski M. forthcoming). There is thus no need to repeat these arguments.

In this article five phonetic phenomena are presented. The starting point is generally a set of Arabic (and sometimes Persian) words attested in Carradori's dictionary. However, the processes observed more often than not also concern native Turkic words, so that a general Turkological background is discussed as well.

2. Consonant changes

2a. Palatalization of Ar., Pers. (-)kE- > Tksh. (-)čE-¹

No Arabic example of this change could be found in Carradori's dictionary. However, in another source from the 17th century there is the following example:

Ott. *çursi* (or perhaps better: *çürsi* ? – M.S.) <csurszi> 'podium, teacher's desk' < Ar. *kursī* 'id.; chair; throne' > modern Tksh. *kürsi* ~ *kürsü* 'podium; chair, department' (N. Illésházy's 1668 dictionary, cited after ALOT II 54).

Oddly enough, Persian loan-words displaying this change are, unlike Arabic ones, recorded in Carradori's work, e.g.:

Ott. *çagat* <ciaghat> ~ *kâğid* <chiaghed> ~ *kâgat* <chiagat> ~ *kâhat* <chiahat> 'sheet of paper, card' (196) < Pers. *kâğad* ~ *kâğid* 'paper' > modern Tksh. *kâğid* 'paper'.

Ott. *çemençe* <ciemencieh> ~ *kemençe* <chiemence> 'violin with three strings' (104)² < Pers. *kamānča* id. > modern Tksh. *kemançe* ~ *kemençe* id.

Ott. *hunçarlık* (or maybe: *hünçarlık* ? – M.S.) <hunciarlich> (but <hñkârlk> in Arabic script) 'belonging to a sovereign' (179) < **hünkârlık* < **hünkâr* < Pers. *hunkâr* 'sovereign' > modern Tksh. *hünkâr(lık)* id.

Only one indigenous Turkic word exemplifying this change could be found:

Ott. *kıvırcık* <chiuirgich> ~ *çivırcık* (or possibly: *çövercık* ~ *çöviricık* ? – M.S.) <ciouergich> 'curly, frizzy' (216).

However, the Ott. *kıvırcık* should probably be excluded from further discussion because its velar vowels seem to suggest that we are not dealing with the result of a simple palatalization (*kE* - > *čE*-) but rather with assimilation at a distance (*k* - *c* > *ç* - *c*). Or perhaps just a spelling mistake: <cio...> pro *<chio...>?

As there is no reason to assume that the Ottoman Turkish pronunciation of *k*- in Persian loan-words differed significantly from that of the Arabic *k*- the lack of Arabic examples of this type in Carradori's dictionary could be nothing more than a coincidence.

However, another aspect of this phenomenon seems to be even more intriguing. The *kE* > *čE* palatalization is a usual assimilation device of Ottoman Turkish loan-words in the Balkan Slavonic languages, e.g. Serbian *ćebap* < Tksh. *kebab* 'kebab' (Stachowski S. 1973: 116), Serbian *ćošk* < Tksh. *köşk* 'villa, summerhouse' (op. cit. 193), Serbian *ćepenak* < Tksh. *kepenk* 'roller shutter' (op. cit. 194). It generally seems to have always been accepted that Turkish has *k*- and the palatalization is a Slavonic matter about which Turcologists need not concern themselves. With regard to forms

¹ The symbol *E* stands for any palatal or palatalizing vowel, e.g. *e* in <ke> = [ke], *â* in <kâ> = [ka(:)].

² Double- and three-digit numbers in parentheses always refer to the pages in Rocchi (2011). Notations in <...> are either Carradori's Latin-script renderings of Ottoman Turkish words or Latin-script transliterations of a traditional Arabic spelling.

like *çursi*, *çemençe*, and so on, this view now appears to be far less certain than was previously thought.

The problem is whether or not we are actually capable of differentiating between words palatalized in Turkish dialects and borrowed with their dialectal *ç*- into Serbian on the one hand, and those that are only palatalized in Serbian, on the other. At any rate, the Turkish-speaking population must have, it would seem, been aware of the *k*- ~ *ç*- alternation because hypercorrect *k*- forms are also known, as is e.g. Ott. *çember* <cember> and its more recent hypercorrect variant *kember* <kember> ‘band’ (Rocchi 2009: 69) < Pers. *ğambar* id.

2b. Varying anlaut nasality: Ar. *m*- > Ott. *b*-; Ar. *b*- > Ott. *m*-

Only one example for each of these changes is attested in Carradori’s dictionary:

Ott. *bember* <bember> ‘pulpit (in the mosque)’ (78) = *member* id. (G. Molino’s 1641 dictionary) < Ar. *minbar* [-mb-] id. > modern Tksh. *minber* [-mb-] id.

Ott. *makra* <maqra> ‘pulley, block’ (237) < Ar. *bakra* id. ~ Syrian Ar. *bakara* id. (Tietze 1958: 265sq.) > Ott. *makara* <macchara> id. (F. Argenti’s manuscript of 1533; cited after Rocchi 2007) = modern Tksh. *makara* id.

In the case of the Ott. *bember* one might hypothesise that we are dealing with the change *m* – *mb* > *b* – *mb* which can be, at least theoretically, interpreted as both assimilation (*m* – *b* > *b* – *b*) and dissimilation (*m* – *m* > *b* – *m*). The reason for the change was without doubt the rather typical Turkish tendency to avoid sonorants in the word-initial position.

The situation with Ott. *mak(a)ra* is entirely different. There is no *m* or *b* in the non-initial syllable, and the change Ar. *b*- > Ott. *m*- runs against the principle of avoiding word-initial sonorants. Thus, the Ott. *mak(a)ra* seems to have adjusted perfectly to a whole group of Turkic words with the *m*- ~ *b*- alternation in the syllable-initial position. Various examples of such changes can be observed throughout the Turkic linguistic world, e.g. in Chulym *şımıçak* ~ *sıbıçak* ‘two-year old horse’, *şamalçak* ~ *şıbulçak* ‘little finger’ (Pomorska 2001: 98); Chulym *yerve* ‘twenty’ < **yerbe* < **yegirmi* > Ott. *yirmi* id. (op. cit. 113). Numerous examples can be also found in Schönig 2002.

Various explanations for this phenomenon were proposed over the course of the history of Turkic linguistics, beginning with a suggestion that this consonant was originally a type of affricate **m^b* (or maybe **mb*), rather than just **m* or **b* (Ramstedt 1957: 74sq.), which is the only explanation that allows for word pairs like Ott. *buz* ~ Yak. *mus* ‘ice’. However, neither this conjecture nor the idea of assimilation (**b* – *N* > *m* – *N*)³ or dissimilation (**m* – *N* > *b* – *N*) can convincingly explain why some Arabic, Persian and Russian loan-words have also undergone this change, even if they show no nasal consonant in a non-initial syllable and cannot possibly reflect Proto-Altaic shapes with an affricate **m^b* or **mb*, e.g. Arabic *bakra* (see above); Ott. *bala* ~

³ The symbol N stands for any nasal consonant.

mala ‘headscarf’ < **bala* < Pers. *vāla* ‘a sort of silk cloth’ (Tietze, Tekin 1994: 161); Tuvinian *batrās* ~ *matrās* ‘mattress’ < Russ. *matrac* id. (Schönig 2002: 263), Tobolsk-Tatar *müts* ‘oven’ < Russ. *peč*’ id. (Anikin 2003: 448).⁴

2c. Despirantization of the Ar. *f* > Ott. *p*

In view of the fact that the Turkic languages did not originally possess a labial spirant *f*, as well as that this sound is, in loan-words, more often than not replaced in Anatolian Turkish dialects by a stop *p*, it is quite remarkable that only one such example is attested in Carradori’s dictionary:

Ott. *pāna* ‘panah’⁵ ~ *fena* ‘fenah’ ‘abuse, misuse’ (152) < Ar. *fanā*’ id. > modern Tksh. *fena* ‘bad’.

On the other hand, the consonant *-p-* in the Turkish reflexes of Ar. *maṭbah* ‘kitchen’ still remained occlusive in 17th century Turkish, as confirmed by Ott. *motpak* ‘motpach’ id. (246) ~ *mutbak* (G. Molino’s 1641 dictionary) [in reality certainly pronounced *-tp-*] = *mutpah* or *mutpak* ‘mutpach’ id. (F. Argenti’s data of 1533) (all records cited after Rocchi 2011: 246) even if it is a spirant in modern Tksh. *mutfak* id.

The situation could be interpreted to the effect that Ottoman Turks had learned to pronounce the spirant *f* by the mid-17th century but despite this were still treating it as a foreign consonant that sometimes could be replaced by *p* (as, e.g. in *pāna*) but generally did not occur in lieu of *p* in loan-words (cf. *motpak*).

The latter formulation is possibly a touch too rigorous. The example of Ott. *sulfet-* (1sg.aorist: ‘sulf ederum’) ‘to (be)calm, soothe’ (300) < Ar. *ṣulḥ* ‘peace’ (> standard Ott. *sulh* id.) shows that the consonant *f* could, at least as the second member of an intervocalic consonant cluster, replace another consonant in an Arabic etymon. Such cases, however, are extremely rare, and any attempt at generalization appears premature.

Ott. *ness* ‘ness’ ‘greed, lust, craving, desire’ (256) < Ar. *nafs* id. does not belong to this group. Instead, it results from the simple assimilation of the Ar. *-fs* > Ott. *-ss*, i.e., *-s#* and *-s + C-* but *-ss + V*, cf. [2e].

2d. Epenthetic *n*

The *n* epenthesis is an irregular phenomenon that only rarely affects Arabic loan-words. The most frequent examples in Carradori’s dictionary are native derivatives with the nomina agentis suffix *-(i)ci*, as e.g. Ott. *yudancı* ‘iudangi’ ~ *yudacı* ‘iudagi’ ~ *yutuci* ‘ywtwǵy’, etc. ‘swallower, swallowing’ (357) < *yut-* ‘to swallow’, amongst others.

⁴ The word pair Mo. *bolǵa-* ‘to depend’ ~ Khakass *molǵa-* id. probably displays the same relationship, i.e. Mo. *b-* > Khakass *m-* (Rassadin 1980: 39); however, one might consider a Pro-Altaistic solution like: Proto-Alt. **m^b* >> Mo. *b-* ~ Khakass *m-*, as well.

⁵ The symbol *ä* is used by L. Rocchi (2011) to render a vowel that is generally expected to be *e* but is spelled ⟨a⟩ in Carradori’s dictionary.

Interestingly enough, one does not find the form *yudancı* in a historical dictionary of Ottoman Turkish *-(i)cı* derivatives which, instead, adduces a 1499 record *yuduncı* ⟨yud-un-ıǧı⟩ id. (Stachowski S. 1996: 179). As *-(i)cı* derivatives are at the same time “amazingly frequently subject to elision in Carradori’s dictionary” (e.g. Ott. *unutcı* ⟨vnutgi⟩ ‘oblivious’ (332) < **unutcı* < *unut-* ‘to forget’, see Stachowski M. forthcoming: § 2e) their composition and phonotactic evolution deserve further detailed investigation.

Only one Arabic example in this group is perfectly clear: Ott. *manzul* ⟨manzul⟩ ‘dismissed’ (237) < Ar. *ma’zūl* id. > modern Tksh. *mazul* id.

Another word, namely Ott. *musarif* seems at first sight to display no *-n-* at all. However, its evolution, as based on Rocchi’s (2011: 250) suggestion, can be summarized in the following manner:

Ott. *musarif* ⟨musarif⟩ ~ *munsarif* ⟨mṣnrif⟩ ‘author’ (250) < **munsarif* < **munsannif* < Ar. *muṣannif* id. > standard Ott. *musannif* id.

The form **munsannif* will, unlike Ott. *manzul*, have resulted from the anticipation of a nasal, i.e., Ar. *-C - nC-* > Ott. **-nC - nC-* which is in essence just a case of assimilation.

In contrast to this word, Ott. *daimanlı* ⟨daimanlı⟩ (~ *daimalı* ⟨daimalı⟩) ‘endless’ and Ott. *daimanlık* ⟨daimanlich⟩ (~ *daimalık* ⟨daimalich⟩) ‘continuation’ (114) seem to display a simple *-n-* epenthesis in derivatives of Ott. *daima* ‘always’. However, this simple explanation does not in truth hold water since Ott. *daimalı(k)* and *daimanlı(k)* reflect two different starting points: Pers. *dāyimā* ‘always’ and its source: Ar. *dā’iman* id. (Tietze 2002: 548).

Yet another case is Ott. *getavrez* ⟨ghetaures⟩ ‘centaur’ (161)⁶ = *gentavres* ⟨ghentaures⟩ id. (1641 dictionary by G. Molino) = *kentavriş* (1687 *Onomasticon* by F. Meninski) id. (all attestations adduced after Rocchi 2011: 161) < Greek *kéntauros* id. One might suspect a hypercorrect elision of *-n-* if Turkish-speaking informants were more or less aware of the existence of the *-n-* epenthesis. This does not, however, appear very realistic because the epenthesis seems to have been a relatively rare phenomenon. In addition, the word *centaur* will certainly have extremely seldom occurred in Turkish conversations. In this situation, Luciano Rocchi’s conjecture that the form without *-n-* is probably nothing other than a careless notation appears to be the best solution. However, the *-n-* is lacking in both the Latin and the Arabic spelling – can both be a matter of carelessness?

2e. Shortening of geminates

The shortening of geminates in word-final syllables is completely regular in Turkish. One of the examples is Ott. *ness*, see [2c] above. Another example is Ott. *af* ⟨af⟩ ~

⁶ Rocchi (2011: 161) identifies the Latin notation with the Arabic one in that he writes: “ghetaures = kṭāwrz” which seems to be two spellings of the same phonetic shape *getavrez*. I would prefer to read the Arabic-script notation with *k-* in Turkish. Nevertheless, both forms lack an *-n-*.

afv (i.e., = [af:]) <fw> ‘forgiveness’ (50sq.) that has, unlike *ness*, partially retained the geminate before an anlaut vowel in certain words: Ott. *afv iste-* (1sg.aorist: <afu is-derum>) ‘to ask for forgiveness’ (50) but *afet-* (1sg.aorist: <af ederum>) ‘to forgive’ (51). This situation is the opposite to what exists today. The modern distribution of *af* and *aff* also depends on the character of the next element but in another way: [α] *af* becomes *aff* if the next element is a possessive suffix (e.g. *affim* ‘my forgiveness’) or an auxiliary verb (*affet-* ‘to forgive’, *affolun-* ‘to be forgiven/condoned’) but [β] it remains *af* if followed by an inflectional suffix (e.g. dative *af+a* albeit the accusative form usually is *aff+i*) or a non-auxiliary verb (e.g. *af iste-* ‘to ask for forgiveness’).⁷

Is, thus, the impression correct that the distribution of geminate and degeminated consonants in a word-final position was either different or at least not yet stable in the year 1650?

Word-medial geminate consonants are even more interesting. Let us first study the examples recorded in Carradori’s dictionary:

1) *-k-* group:

Ott. *dükân* <duchian> ‘shop’ (133) < Ar. *dukkân* id. > modern Tksh. *dükkân* id.

Ott. *hoka* <hhoqa(h), hoch> ‘pot, cup’ (177) < Ar. *hukka* id. > modern Tksh. *hokka* id.

Ott. *hokabaz* <hochabaz> ~ *hokbaz* <hoqbaz> ‘illusionist, magician’ (177sq.) < Ar. *huk-ḳabāz* id. > modern Tksh. *hokkabaz* id.

Ott. *moşekil* <moscehil> ‘appearance, look’ (246) < (? Pers. <) Ar. *muşakkil* ‘well-shaped’ > standard Ott. *müşekkel* id.

Ott. *mürekeb* [‘ink’], in: *basma mürekeb* <basma murechieb> ‘printing ink’ (75) < Ar. *murakkab* ‘composite’ > modern Tksh. *müreккеп* ‘ink’.

2) *-d-* group:

Ott. *hidet* <hidet> ‘anger’ (177) < Ar. *hidda(t)* id. > modern Tksh. *hiddet*

3) *-b-* group:

Ott. *lübe* (*lube?*), in: *boğaz lübesi* (*lubesi?*) <boğhas lubesi>⁸ ‘base of the neck’ (234) < **lúbbe* < **libbe* < Egyptian Ar. *libba* id. (l.c.) = Classical Ar. *labba* id. > standard Ott. *lebbe* id.

The Ott. *zubon* <zubon> ~ *zubun* <zubun> ‘a sort of jacket’ (369) is a distinct word which admittedly displays a single *-b-* when compared with the Ar. *-bb-* in *ğubba* ‘a sort of outer garment, gown’. However, the degemination occurred in Venetian rather than in Turkish: Ott. *zubon* ~ *zubun* (= modern Tksh. *zıbm*) < **zubon* ~ **zıbon* < Venetian *zupòn* ~ *zipòn* = standard It. *giubbone* id., demin. < *giubba* id. < Ar. *ğubba* (Stachowski S. 1996: 118).

⁷ This is a modern Turkish synchronic perspective, of course. Historically, one would say that the original *aff* <fw> remains unchanged in [a] and becomes degeminated in [β].

⁸ Rocchi (2011: 234) puts *lubbe* in the first place but the etymology points to *lúbbe* as the more probable variant.

4) *-z-* group:

Ott. *lezetli* <lezetli> ‘tasty, spicy’ (233) ~ *lezetlik ile* <lezetlich ile> ‘tastily, with taste’ (l.c.) ~ *lezetle-* (1sg.aorist: <lezetlerum>) ‘to flavour, season, add some seasoning’ (l.c.) < **lezet* < Ar. *laḏḏat* id. > modern Tksh. *lezzet* id.

5) *-v-* group:

Ott. *evel* <euel> ~ *evvel* (euuel) ‘(shortly) before’ (177) < Ar. *awwal* ‘first’ > modern Tksh. *evvel* ‘before’.

Ott. *kovet* <chouet, couet, qouet> ‘power, strength’ (223) ~ *kuvet* <quuet> id. (229) < Ar. *kūwwat* d. > modern Tksh. *kuvvet* id.

6) *-l-* group:

Ott. *zavalık* <zaulich> ‘poverty’ (366)⁹ < **zavallık* < **zavallılık* id. < **zavallı* ‘poor’ < **zaval* < Ar. *zawāl* ‘death, destruction’ > Ott. *zaval* > modern Tksh. *zavallı* ‘poor’, *zavallılık* ‘poverty’.

Ott. *zelilik* <selilich> ‘weakness’ (366) < **zelillik* < Ar. *ḏalīl* ‘humbled, abased; obedient’ > modern Tksh. *zelil* id.

No degemination is observed in the trill *rr* or the nasal stop *nn* (no records with *-mm-* could be found in the source). These consonants always seem to retain these geminates, e.g.:

Ott. *sarraḥ* <sarraḥ> ‘money-changer’ (286) < Ar. *ṣarrāḥ* id. > standard Ott. *sarraḥ* id.

Ott. *minnet* <minnet> ‘thanks, indebtedness’ (245) < Ar. *minnat* id. > modern Tksh. *minnet* id.

Even if the degemination of *-ll-* was exemplified above, the examples in group (6) differ considerably from all the other records in groups (1)-(5) in that they only show the *-ll-* > *-l-* change at morpheme borders between a borrowed Arabic word and a native Turkish suffix *+lık*. By contrast, the *-ll-* group never seems to be subject to degemination if it occurs in the word-medial position in an Arabic word, as for instance in the following case:

Ott. *millet* <millet> ‘nation’ (245) < Ar. *millat* id. > modern Tksh. *millet* id.

Thus, a Degemination Resistance Hierarchy (= DRH) can be established:

- 1) The velar stop *k* (numerous examples);
- 2) The spirants *v, z* and non-velar stops *b, d* (fewer examples);
- 3) The lateral *l* (degeminated only in derivatives);
- 4) The trill *r* and the nasal stops *m* (?) and *n* (no known examples).

⁹ Rocchi (2011: 366) also allows the reading *zavallık* which is not totally out of the question but, on the other hand, there is no suggestion of a necessity of reading *-ll-* here.

The lower the group number (= the DRH index), the more frequent the degemination. Actually, group [3] and group [4] can even be considered one group consisting of sonorant consonants. At the opposite end of the DRH axis one finds the velar voiceless stop *k*. This seems to suggest that the most important factor in the degemination process is the voicedness of the consonants involved. Another important factor, it would seem, is the degree of “consonantism”, that is syllabic consonants have a higher DRH index. The mutual relationship between the two factors can only be understood when more examples are found and analysed in the future.

Nevertheless, even these insights can be used in a discussion of more general topics in Turkic linguistics, as well as in arguments for or against certain claims. When wondering at W. Heschke’s suggestion that the Turkic postposition *syɧaru* ‘towards’ goes back to **syɧar+ru* (< *syɧar* ‘direction’ + directive suffix *+ru*) I have argued that “the *-r r-* sequence (as in Tksh. *nar reçeli* ‘pomegranate marmelade’ [...]) is never shortened to *-r-*” (Stachowski M. 2012: 131). These concerns are now supported by the fact that both the sandhi *-r r-* sequences and the word-medial *-rr-* in Arabic loan-words in Turkish have the highest possible DRH index.

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