MORPHEME-BASED RENDAKU AS A RHYTHMIC STABILIZER IN EASTERN OLD JAPANESE POETRY

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Abstract

This paper explores the functions of morpheme-based *rendaku*, or "sequential voicing", in Eastern Old Japanese poetry, with a focus on its function of maintaining rhythmic stability in poetic verse. It is argued that this function is implemented to avoid a hypermetrical line when no adjacent vowels exist as candidates for synchronic elision. Furthermore, a comparison with synchronic vowel elision is conducted. Based on the results, it is argued that morpheme-based *rendaku* is preferred to synchronic vowel elision when both are available options for maintaining the rhythmic stability of a line. Linguistic constraints blocking morpheme-based *rendaku* are also discussed to explain hypermetrical examples with potential, yet unrealized, morpheme-based *rendaku*.

Keywords

phonology; phonetics; Old Japanese; rendaku; poetry

Izvleček

Raziskava se osredotoča na funkcijo t.i. "sequential voicing" ali zvenečnjenja na nivoju morfemov v stari vzhodno-japonski poeziji, in sicer daje poudarek funkciji, ki ohranja ritmično stabilnost verza. Avtor pokaže, da se v primeru, ko ni okoliških samoglasnikov, ki bi sodelovali pri sinhronem izpadu samoglasnikov, z uporabo te funkcije izognemo hipermetrični vrstici. Vzporedno avtor primerja zvenečnjenje in sinhroni izpad samoglasnikov in ugotovi, da je v primeru, ko sta za ohranjanje ritmične stabilnosti možni obe vrsti posredovanja, zvenečnjenje bolj željena izbira. Nazadnje so analizirane lingvistične omejitve, ki preprečujejo uporabo zvenečnjenja, in s tem tudi hipermetrični primeri s hipotetičnim obstojem zvenečnjenja.

Ključne besede

fonologija; fonetika; stara japonščina; zvenečnjenje; poezija

1. Introduction¹

The Eastern Old Japanese (EOJ) dialects were spoken in the first half of the 8th century CE in Kamitukeno, Sagamu, Simotukeno, Muzasi, Pitati, Michinöku, Simotupusa, and Kamitupusa provinces², all of which were located in the Eastern (Azuma) region of Japan. The language is markedly different in many aspects of grammar and lexicon compared to Western Old Japanese (WOJ), Central Old Japanese, and Töpo-Suruga Old Japanese, all of which were spoken in Japan at the same time.

EOJ is attested exclusively in poetry in books 14 and 20 of the Man'yōshū poetry anthology, and has been an important subject of interest for Japanese linguists for over half a century, beginning with the early seminal works by Fukuda (1965), Hōjō (1966), and Mizushima (1972, 1984a, 1984b, 1986) and continuing on in recent studies by Mizushima (1996, 2003, 2005, 2009), Vovin (2005, 2009a, 2009b), and Kupchik (2011). Also notable are the important commentaries by Nakanishi (1981, 1983), Omodaka (1984a, 1984b), Itō (1997, 1998), and Aso (2011). Long heralded as a language that contains crucial pieces of information necessary for the reconstruction of Proto-Japonic and Proto-Japanese, much previous linguistic research has focused on its array of retentions, some of which are shared with Ryukyuan languages (Pellard, 2008). However, an equally interesting, yet seldom discussed, characteristic of the language is that it displays some of the earliest attested examples of rendaku, or "sequencial voicing." In Modern Japanese rendaku is a morphophonological process that voices the initial consonant of the second element of a compound. For example, when ao "blue" and sora "sky" combine the output is not aosora but aozora. There are phonological and lexical restrictions on Modern Japanese rendaku and it is not completely regular. In EOJ there are two types of *rendaku*: morpheme-based and process-based. These are described in Section 2 of this paper.

The goal of this paper is to explore the functions of morpheme-based *rendaku* in EOJ through a comprehensive analysis of the corpus. In particular, attention will be paid to its use in speech rhythm, and how it interacts with synchronic vowel elision in hiatus contexts. A comparison between morpheme-based *rendaku* and synchronic vowel elision will also be made to see if their effects in speech rhythm are different, or if one is preferred over the other for any particular function.

¹ Research for this work was supported by Grants-in-Aid for Scientific Research (*Kakenhi*) #23.11784 from the Japan Society for the Promotion of Science (JSPS).

² I write all province names in their reconstructed 8th century pronunciations (note that /ö/ represents a schwa). These correspond to the present-day names Kōzuke 上野, Sagami 相模, Shimotsuke 下野, Musashi 武蔵, Hitachi 常陸, Mutsu 陸奥, Shimōsa 下総 and Kazusa 上総, respectively.

1.1 Methodology

Kupchik (2011, pp. 871-1013)'s annotated EOJ corpus was used for this study. The total corpus used consists of 234 poems from *Man'yōshū* books 14 and 20, most of which contain 31 syllables in a syllabic rhythm of 5-7-5-7-7. Any of the poems were marked if they showed morpheme-based *rendaku* or hypermetricality, and then digital searches were conducted to find all examples for each particular type. Examples are written in the IPA, and follow Kupchik (2011, pp. 29-482)'s reconstruction of EOJ phonology and phonetics. Logographic morphemes are written in italics. The original *Man'yōgana*³ orthography is also given. Textual attestations are given in the following format:

(book:poem.line - province)

For example, if the example is from $Man'y\bar{o}sh\bar{u}$ book 14, poem 3384, line 4, from Simotupusa province, it will be shown as (14:3384.4 - Simotupusa). Sequential lines are marked with a hyphen, while non-sequential lines are separated by a backslash. Thus 14:3506.1-2/5 indicates the poem is from book 14, poem 3506, lines 1, 2 and 5 (but not 3 or 4).

Some poems have no overt province attribution. These are called "unknown dialect" poems, abbreviated as UD.

1.2 The rhythm of EOJ poetry

EOJ poetry is almost exclusively in the *tanka* style, which most often consists of five lines of verse in a sequence of 5-7-5-7-7 syllables. Hypermetrical lines are permitted, at least superficially, but almost never in excess of one syllable⁴. Depending on the scribe or dialect hypermetrical lines may have either been firmly restricted or conditionally permitted.

In order to maintain a stable metrical rhythm, two strategies are used. First, we find quite frequently the synchronic⁵ elision of one of two adjacent vowels in hiatus across word boundaries, with V_2 elision being the most prominent (Kupchik, 2011, p. 483), which is typologically rare (Casali, 1997, 1998). I will refer to this as synchronic vowel elision (SVE) in this paper. The second strategy is the use of morpheme-based *rendaku* to contract the line.

³ *Man'yōgana* is a system of Chinese characters used for either their meaning or sound values. Most of the EOJ poems are written in purely phonographic *Man'yōgana*, though a small set of logographic characters appear in some poems as well.

⁴ One example with nine syllables in a line is found in 14:3423.5, from Kamitukeno province.

⁵ It is important to distinguish between synchronic and diachronic elisions. Synchronic elisions are those that occur optionally at the boundary between two separate word-forms and they are not lexicalized. Diachronic elisions occur in compounds, verbal morphophonology, and lexicalized collocations in the language, and they are completely lexicalized. Many diachronic elisions are shared with Western Old Japanese and certainly go back at least to Proto-Japanese times.

2. Types of rendaku

In this paper I distinguish between two types of *rendaku*: process-based and morpheme-based. Process-based *rendaku* is described in section 2.1, while morpheme-based *rendaku* is described in section 2.2.

2.1 Process-based rendaku

Process-based *rendaku* involves reduplicating the root and prenasalizing and voicing the onset of the reduplicant. It has a function of pluralization, and there is no derivable morpheme from the resulting prenasalized onset of the reduplicant. This is only attested a few times. An example is shown below.

(i) 20:4391.1-3 – Simotupusa 久尔具尔乃 / 夜之里乃加美尔 / 奴作麻都理 kuni- ⁿguni-nə / yasiri-nə kami-ni / nusa matur-i province-REDUP-GEN / shrine-GEN deity-DAT / paper_offering offer-INF "I make paper offerings to the deities in the shrines of [many] provinces."

The reduplication itself is not adequate to indicate plurality – indeed, without the *rendaku* prenasalization and voicing, reduplication usually has an iterative function in EOJ (Kupchik, 2011, p. 566). Due to the fact process-based *rendaku* is not used to stabilize the rhythm of a line of poetry, it will not be discussed further in this paper.

2.2 Morpheme-based rendaku (MBR)

Morpheme-based *rendaku* (henceforth abbreviated as MBR) refers to the word-boundary contraction of the vowel of a nasal-initial syllable of a grammatical morpheme or word form (in the case of the copula *n*-), which in turn fuses with the following voiceless onset, prenasalizing and voicing it in the output. Prenasalized-voiced onsets are restricted from participating, as they are already prenasalized and voiced⁶. This is extremely useful when confronted with a fairly rigid meter and no other allowable contractive processes other than SVE. MBR is well attested in all dialects of Old Japanese and it is the historical source of many of the *rendaku* forms found in Modern Japanese.

The grammatical morphemes and word-forms that may participate in MBR are shown in Table 1 below. While they are not numerous, they are some of the most frequently attested morphemes in the corpus.

⁶ EOJ is a language that has the uncommon contrast between voiceless and prenasalized-voiced obstruents, but no plain voiced obstruents.

Table 1: Grammatical morphemes that trigger morpheme-based rendaku

Dative/Locative -ni
Genitive -nə
Copula-infinitive <i>n-i</i>
Copula-adnominal <i>n-</i> ∂
Demonstrative pronoun "this" kənə

All contracted *rendaku* forms of the above morphemes are well attested except $k \ni n \ni r$, which is only attested once. An example of each is given below in examples (1) - (5).

(1) 14:3506.1-2/5 – UD 尔比牟路能 / 許騰伎尔伊多礼婆/見延奴己能許呂 nipi muro-nə / kəⁿ-dəki-ni itar-e-^mba⁷ / mi-ye-n-u kənə kərə new house-GEN / this-time-LOC arrive-EV-CONJ / see-PASS-NEG-ATTR this time "Since the time of the new house has arrived, this is a time when I am unable to see you."

The underlying form of line 2 in example (1) is /kənə təki-ni itar-e-^mba/.

(2) 20:4368.1-2 – Pitati 久自我波々 / 佐氣久阿利麻弖 kuⁿzi-ⁿ-gapa pa / sake-ku ari-mat-e PN-GEN-river TPT / be.safe-AVINF ITER-wait-IMP "Be waiting for me safely, [at] Kuⁿzi river!"

The underlying form of line 1 in example (2) is /kuⁿzi-nə gapa pa/.

(3) 14:3537b.1-2 – UD 宇麻勢胡之 / 牟伎波武古麻能 uma-se-[¶]-gos-i / mu[¶]gi pam-u koma-nə horse-fence-**LOC**-cross-INF / grain munch-ATTR stallion-COMP "Like a stallion that crosses the horse-fence to munch on grain."

The underlying form of line 1 in example (3) is /uma-se-ni kos-i/.

⁷ There is another interpretation of this line mentioned by Mizushima (1986, p. 307), in which the first three syllables, $ks^n daki$, are a reduction of ka-na taki "silkworm-GEN time". The problem with this is "silkworm; child" is ko, not ka. We would therefore have to conclude the vowel change was due to a regressive assimilation to the vowel in taki "time", but I am skeptical due to the fact $ka^n daki$ is attested just once in all of the Old Japanese corpus. Furthermore, while progressive vowel assimilations are well attested in the EOJ corpus, other examples of a regressive vowel assimilation are not attested.

(4) 14:3412.4-5 – Kamitukeno 可奈師家兒良尔 / 伊夜射可里久母 kanasi-ke *ko*-ra-ni / iya ⁿ-zakar-i-k-umo be.adorable-AVATTR girl-DIM-DAT / more.and.more **COP.INF**-be.far.from-INF-go-EXCL "I am going further and further away from my adorable girl!"

The underlying form of line 5 in example (4) is /iya n-i sakar-i-k-umo/.

(5) 14:3489.5 – UD 左祢度波良布母 sa-ne ⁿ-do parap-umo LOC-sleep.NML **COP.ATTR**-place clear.away-EXCL "I'll clear away a place for us to sleep."

The underlying form of the line in example (5) is /sa-ne n-ə to parap-umo/.

Normally we only find one occurrence of MBR in a line, but there is one extreme case where the underlying line is nine syllables and two instances of MBR are used to contract it into seven syllables, shown below in example (6).

(6) 14:3497.1-2 – UD 可波加美能 / 袮自路多可我夜 kapa kami-nə / ne-ⁿ-ziro taka ⁿ-gaya ⁸ river upper.part-GEN / root-**GEN**-white high **COP.ATTR**-grass "Like the tall grass with white roots in the upper part of the river."

The underlying form of line 2 in example (6) is /ne-nə siro taka n-ə kaya/.

It should also be noted that MBR only occurs when an underlying line is hypermetrical and it never occurs at the boundary between two lines. Due to this, we can conclude its primary function was to stabilize the rhythm of a single line of verse.

2.2.1 Evidence for the lack of lexicalization of MBR

To show that MBR is not implemented unless needed, examples are given below in (7) - (11) where the underlying line is metrical, and consequently no MBR occurs. While, due to the small size of the corpus, it is difficult to find examples containing all of the same morphemes as in the MBR examples, the following examples are phonologically similar as well as morphosyntactically similar.

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⁸ While I mark the morpheme boundaries between the prenasalization and the following onset in order to clearly indicate the morphemes involved (i.e. /n-ziro/ "GEN-white"), we must remember prenasalized voiced consonants were unit phonemes. Thus the post-*rendaku* forms are completely fusional and consequently should be understood as being portmanteau morphs.

(7) 14:3460.3-5 – UD

尔布奈未尔 / 和我世乎夜里弖 / 伊波布許能戸乎 nipu nami-ni / wa-¹ga se-wo yar-i-te / ipap-u **kənə** to-wo new taste.NML-LOC / 1.S-POSS lover-ACC send-INF-SUB / pray-ATTR **this** door-ACC "I pray to this door after sending my husband away during the new [rice] tasting."

(8) 14:3369.1-4 - Sagamu

阿之我利乃 / 麻万能古須氣乃 / 須我麻久良 / 安是加麻可左武 asiⁿgari-nə / mama-**nə** ko-suke-nə / suⁿga-makura / aⁿze ka mak-as-am-u PN-GEN / cliff-GEN DIM-sedge-GEN / sedge-pillow / why QPT use.as.a.pillow-HON-TENT-ATTR "Why would you use a sedge pillow made of sedge from the cliffs of Asigari as a pillow?"

(9) 14:3514.4-5 – UD

和礼左倍尔 / 伎美尔都吉奈那 / 多可称等毛比弖 ware sape n-i / kimi-**ni** tuk-i-n-ana / taka ne tə mop-i-te 1.S RPT COP-INF / lord-LOC attach-INF-PERF-DES / high peak COP think-INF-SUB "I, too, would like to be with you, my lord. I think of you as a high peak."

(10) 14:3350.4-5 - Pitati

伎美我美家思志 / 安夜尓伎保思母 kimi-ⁿga mi-kesi si / aya **n-i** ki posi-mo lord-POSS HON-clothes FPT / extremely COP-INF wear.NML be.desired-EXCL "I so desperately want to put on my lord's clothes!"

(11) 20:4420.4-5 - Muzasi

安我弖等都氣呂 / 許礼乃波流母志 a-¹ga te-tə tuke-rə / kəre **n-ə** paru məs-i REFL-POSS hand-COM affix-IMP / this COP-ATTR needle hold-INF "Put it together again with your own hands, holding this needle."

2.2.2 Unrealized MBR in hypermetrical lines

While there are dozens of cases of unrealized SVE in a hypermetrical line, there are only a few cases where MBR seems to be possible, but remains unrealized in a hypermetrical line. An example is shown in (12) below.

(12) 14:3418.5 – Kamitukeno 伊麻波伊可尔世母 ima pa ika **n-i se**-m-o now TPT how **COP-INF do**-TENT-ATTR "Whatever shall I do now?"

In example (12) we find a hypermetrical line even though theoretically the copulainfinitive n-i could be contracted to $[^n]$, and voice the following onset to [z]. However, I could not find a single example of the onset of se- "do" becoming prenasalized to $[^nz]$ in EOJ or WOJ, so it is possible that there was a lexical prohibition on this root becoming prenasalized. We should note that SVE in the sequence [ai] also does not occur in example (12).

In example (13) below we find a hypermetrical line 5, but no MBR occurring between the copula-infinitive n-i and the emphatic particle si to create an output of $[^nzi]$. SVE in the sequence [ia] also does not occur in this example.

(13) 20:4351 – Kamitupusa

多妣己呂母 / 夜倍伎可佐袮弖 / 伊努礼等母 / 奈保波太佐牟之/ 伊母尔志阿良袮婆 ta^mbi kərəmo / ya-pe ki-kasane-te / i-n-ore-ⁿdəmo / napo paⁿda samu-si / imo **n-i si ar**-an-e-^mba journey garment / eight-CL wear.INF-pile.INF-SUB / sleep-sleep-EV-CONC / still skin be.cold-FIN / darling COP-INF EPT exist-NEG-EV-CONJ "Although I do sleep wearing the many layers [of my] travel garment, still my bare skin is cold, because my darling is not here!"

As there are no attested examples of a particle undergoing MBR, they were likely restricted from participating in the process, much like words with voiced onsets and the verb *se*- "do". Further strengthening this idea is example (14) below, where we see the same string of morphemes (*n-i si ar-* "COP-INF EPT exist-") with the occurrence of SVE, but not MBR.

(14) 20:4393.1-2 – Simotupusa 於保伎美能 / 美許等尔作例波 opo kimi-nə / mikətə **n-i s-ar**-e-^mba great lord-GEN / command COP-INF EPT-exist-EV-CONJ "When [my] great lord's command came to be."

2.2.3 Hypermetricality in the wake of MBR

There is one attestation in the corpus where the application of MBR is not enough to make a line metrical. This example is given in (15) below, where both lines are hypermetrical. There are a few interesting things to note about this example. First, there is nothing to contract in line 1 – the conditions necessary for MBR or SVE to occur are non-existent. Second, in line 2 both MBR and SVE are possible, but only MBR occurs. It is unclear why the adjacent vowels in the sequence *kumo ar-* remain in the output. It is possible that some lexical items were not permitted to undergo SVE (recall, also, the point that there appears to be a restriction on *se-* "do" and particles participating in MBR). Further to this point, as far as I can tell there are no attestations of *kumo* "cloud" losing its final vowel or eliding an adjacent vowel in any Old Japanese text. The verb *ar-* "exist" is similarly unattested in OJ with a synchronically elided vowel.

(15) 14:3516.1-2 – UD 對馬能袮波 / 之多具毛安良南敷 tusima-nə ne pa / sita-^ŋ-gumo ar-an-ap-u PN-GEN peak TPT / below-GEN-cloud exist-NEG-ITER-FIN "There are no clouds below the peaks of Tusima."

2.2.4 Lexical parallels to MBR

A few lexical morphemes are also attested behaving similar to MBR. These nouns lose the vowel in their nasal-initial syllable when combined with another word. This is a rare phenomenon in EOJ, but one relevant to the present discussion. One example is *yumi* "bow". An example of its contracted form yu^n - is provided below in example (16).

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(16) 14:3567 – UD

於伎弖伊可婆 / 伊毛婆麻可奈之 /

母知弖由久 / 安都佐能由美乃 / 由都可尔母我毛

ok-i-te ik-a<sup>m</sup>ba / imo pa ma kanasi /

mot-i-te yuk-u / a<sup>n</sup>dusa-nə yumi-nə / yu<sup>n</sup>-duka n-i mo<sup>n</sup>gamo
leave.behind-INF-SUB go-COND / darling TPT so be.sad.FIN /
hold-INF-SUB go-ATTR / catalpa-GEN bow-GEN / bow-grip COP-INF DPT

"If [I] go leaving [her] behind, my darling will be so sad. I wish she could be
the grip of the catalpa bow, which I will take with me."
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However, this form is probably lexicalized, as the form *yumi tuka* "bow grip" is unattested in OJ. Thus it is not a good analog to MBR, which occurs synchronically.

A more intriguing example is *miti* "road", which we often find synchronically contracted to ${}^{n}di$ as the second part of many compounds. This is more relevant to MBR as this contraction only occurs when needed to stabilize the rhythm of the line. This is shown, for example, in example (17):

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(17) 14:3405a.3 – Kamitukeno
可波治尔毛
kapa-<sup>n</sup>di-ni mo
river-road-LOC FPT
"Even on the river road"
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The underlying form of example (17) is [kapa-miti-ni mo], with six syllables instead of the rhythmically ideal five. By contracting *miti* into ⁿdi the desired five syllable rhythm for the line is achieved. This word is not contracted unless metrically required, as demonstrated in example (18), which is already metrical with its underlying five syllables that surface in the output:

(18) 14:3477.1 – UD 安都麻道乃 aⁿduma **miti**-nə PN road-GEN "Of Aduma road"

An alternate analysis of *miti*'s contracted form "di is presented by Vovin (2009c, p. 49; 2010, p. 200), who segments it as -"-di "-GEN-road" (a contraction of -nə ti "id."), which would make it an example of MBR. I disagree with this analysis for the following reasons: *miti* "road" is often not preceded by the genitive -nə when it is uncontracted and preceded by a nominal (such as a place name), as shown in example (18) above; ti "road" is unattested preceded by an uncontracted genitive -nə; ti "road" does not appear at all outside of the compound ti-mata "road-fork", which is only attested logographically in WOJ, the place name 當芸麻知 tangima-ti "Tagima Road" attested once in Kojiki Kayō 77, and possibly also naga-ti "long road", though that also seems to be only attested logographically. Also note the parallelism with yumi "bow" ~ yun-duka "bow-grip", which shows an identical phonological contraction of [mit] > [nd] in compounds. While historically the evidence for "road" being *ti in Proto-Japonic is strong, synchronically only miti and its contracted allomorph "di exist in EOJ.

3. MBR or SVE: is one preferred over the other?

The data suggests MBR is preferred over SVE. One piece of evidence can be seen in line 2 of example (1) above, as the adjacent vowels [ii] do not elide, but MBR occurs at the start of the line. Similarly, as mentioned before, MBR occurs in line 2 of example (15) above but no SVE occurs in the adjacent vowels [oa]. In addition, examples (19) and (20) below show MBR, but adjacent vowels remain in the output:

(19) 14:3527.4-5 – UD 伊伎豆久伊毛乎 / 於伎弖伎努可母 iki-ⁿ-duk-**u i**mo-wo / ok-i-te k-i-n-o kamo breath-LOC-breathe-ATTR beloved_girl-ACC / leave_behind-INF-SUB come-INF-PERF-ATTR EPT "I left my darling weeping and came [here]!"

In example (19) we find the underlying form [iki-ni tuk-u] realized as *iki-ⁿduk-u* due to the implementation of MBR, but no SVE of the following vowel sequence [ui]. Similarly, in example (20) below we find the underlying form [ura-ni tat-i] realized as *ura-ⁿ-dat-i* due to the implementation of MBR, with no SVE in the preceding vowel sequence [eu].

(20) 14:3552 – UD 麻都我宇良尔 / 佐和恵宇良太知 / 麻比登其等 / 於毛抱須奈母呂 / 和賀母抱能須毛 matu-¹ga ura-ni / sawawe ura-¹-dat-i / ma-pitə-¹-gətə / omop-os-unam-ə rə / wa-¹ga mop-o-nəsu mo pine-POSS bay-LOC / noisy tip-LOC-rise-NML / INT-people-word / think-HON-TENT2-ATTR COP / 1.S-POSS think-ATTR-COMP FPT "You surely think that people's rumors are like the noisiness rising to the tips [of the tree branches] in the bay of pines. My thoughts are also like that."

Importantly, metrical lines with SVE along with unrealized MBR are unattested in the corpus. It should also be noted that there are no examples of a hypermetrical line with unrealized MBR (when the aforementioned restrictions on MBR are taken into account), but there are many examples of hypermetrical lines with unrealized SVE.

4. Summary and conclusion

This paper has given evidence that suggests the primary function of MBR was to stabilize the rhythm of a single line of verse. The evidence also suggests that MBR is preferred over SVE when both are available to contract a line into the ideal rhythm of the *tanka* verse. This patterns well with the fact that SVE is not strongly preferred over hypermetricality in the language.

Still, the question remains: why is there a preference for MBR over SVE? One possibility is that SVE and MBR have different stylistic functions in the language. The specific type of SVE found in EOJ quite possibly only occurred in poetic verse (there is no evidence to the contrary), while it seems MBR was something more central to the grammar, due to the fact it continues on in later forms of Japanese while SVE does not. In fact, historically *rendaku* becomes far more prevalent in Japanese as time goes on with morpheme-based and process-based *rendaku* eventually merging into one. Based on this, it is not unrealistic to conclude SVE was mainly a poetic device employed by scribes for verse composition, while MBR was a more basic element of the grammar more widely used in the language. Therefore, this hypothesis maintains MBR had grammatical primacy to stabilize the rhythm of verse, while SVE was a more artificial device used for the same effect mainly when the conditions necessary for MBR to occur were not met. It is unsurprising, then, that when both are equal candidates to stabilize the rhythm of a single line of verse, the primary device is preferred.

Another element that may be at play in these data is the cross-linguistic initial-syllable positional privilege (Beckman, 1998, pp. 50–58) which maintains there is a preference to retain initial syllables of words rather than final syllables. MBR preserves the initial syllable of words, while EOJ's SVE is mainly of the type that elides V_2 , which deletes the initial syllable of a word. However, it is difficult to explain the predominantly V_2 elision operating in EOJ if the language really followed this typological trend.

Abbreviations

Linguistic terms

MBR Morpheme-based *rendaku* SVE Synchronic vowel elision

Grammatical terms

1.S First person singular pronoun

ACC Accusative case
ATTR Attributive marker

AVATTR Adjectival verb attributive AVINF Adjectival verb infinitive

CL Classifier

COM Comitative case
COMP Comparative case
CONC Concessive gerund
CONJ Conjunctive gerund

COP Copula
DAT Dative case
DES Desiderative
DIM Diminutive

DPT Desiderative particle EPT Emphatic particle

EV Evidential EXCL Exclamative

FIN Final predication marker

FPT Focus particle
GEN Genitive case
HON Honorific
IMP Imperative
INF Infinitive
INT Intensifier
ITER Iterative

LOC Locative case
NEG Negative
NML Nominalizer
PASS Passive

PERF Perfective aspect
PN Place name
POSS Possessive case

QPT Question particle REDUP Reduplication REFL Reflexive

RPT Restrictive particle
SUB Subordinative gerund

TENT Tentative mood

TENT2 Second tentative mood

TPT Topic particle

Languages

COJ	Central Old Japanese (8 th century CE, central Yamato)
EOJ	Eastern Old Japanese (8 th century CE, Azuma region)
PJ	Proto-Japanese

13 Troto-sapanese

TS Töpo-Suruga Old Japanese (8th century CE, Töpotuapumi (=Tōtōmi)

and Suruga provinces)

UD Azuma poems from an unspecified dialect

WOJ Western Old Japanese (8th century CE, Nara region)

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