

# The Phonology of Classical Hebrew: A Linguistic Study of Long Vowels and Syllable Structure

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Occasionally in the study of details, one pulls on what appears to be a marginal thread, a thread which proves to be woven throughout the whole of the tapestry. The thread under consideration in the present work is a sometimes overlooked phonological rule in Classical Hebrew.<sup>1</sup> The task is the specification of the phonological rule as well as its implications for the history of Hebrew, the structure of the middle-glide verb, and the identification of prefix verbs in the biblical text. In order to attain this goal, three topics will be addressed in the following order: the status of long vowels in Classical Hebrew phonology, the internal structure of the middle-glide verb (henceforth the Ilwy verb), and the structure and development of the prefix verbs.

## 1. Long Vowels<sup>2</sup>

Historically long vowels<sup>3</sup> and contracted long vowels are stable in Classical Hebrew in that they survive the phenomenon of propretonic reduction.<sup>4</sup> Furthermore, it has been cursorily noted in previous grammatical works that long vowels exist only in restricted environments: they never appear in a closed, unstressed syllable (JOÜON 1993:§29b n. 1 and LONG 1997:31, n. 103). In fact, “long vowels show a *tendency to become short* when their syllable closes” (LPIŃSKI 1997:179; MOSCATI 1980:65; emphasis added).<sup>5</sup> This analysis hints at the truth, but is too vague to be useful for linguistic analysis. In fact, the story is neither so simple nor banal. This section will specify the precise environment in which long vowels or contracted diphthongs

<sup>1</sup> The use of ‘classical’ is intended to highlight the differences between the reconstructed vowel system of Classical Hebrew and that of the Tiberian Masoretes. See footnote n. 11 for further discussion.

<sup>2</sup> These vowels are often referred to as “unchangeable” (see KAUTZSCH 1910:§25; BL 1962:§67), but this is certainly not the case, as the rest of this essay will demonstrate.

<sup>3</sup> Historically long vowels are: *ī*, *ō* < \**ā/ā*, *ū*. Long vowels resulting from assimilation / contraction are: *ē* < \**ay*, *î* < \**iy*, *ô* < \**aw*, *û* < \**uw*. For the numerous nominal and verbal patterns in which long vowels exist in Proto-Semitic and Classical Hebrew, see LONG 1997:20-45; JOÜON 1993:§88; BL 1962:§61; KAUTZSCH 1910:§§83-86.

<sup>4</sup> “PS long vowels do not reduce to shwa in BH; they retain the following vowel qualities or timbres... \*/*ā*/ > *o* ... \*/*ī*/ > *i*... \*/*ū*/ > *u*...”, LONG 1997:8.

Propretonic reduction may be represented by the following notation:  $V > \emptyset / VC\_CVC(C)VC(C)$   
 $> a / +C\_CVC(C)VC(C)$

<sup>5</sup> The statement is identical in both works.



become short in pre-Classical Hebrew. Then the identified phonological rule will be situated relative to other diachronic features of Hebrew.

The following argument presupposes a few specific developments within the history of Hebrew (some of which also apply to Central Semitic, or even the whole of Semitic). First, many Semitic languages demonstrate a case system (e.g. Arabic) and it is thought that such a case system was original within the Semitic family. Presumably, Proto-Semitic distinguished three grammatical cases by means of morphological affixation (MOSCATI 1980:§12.64; LIPÍŃSKI 1997:§32.13).<sup>6</sup> Three suffixed short vowels marked the nominative case *\*-u*, the accusative case *\*-a*, and the oblique case *\*-i*. It is likely, and integral to the following argument, that pre-Classical Hebrew also distinguished three cases by means of similar morphological affixation (BL 1962:§65; KAUTZSCH 1910:§§89-90; JOÜON 1993:§93*b*; WOC 1990:§8; LONG 1997:17-18). However, the word final case vowels were lost in Central Semitic at some point after the 14<sup>th</sup> century B.C.E.<sup>7</sup>

Second, the following conditioned sound changes occurred during the course of Hebrew (BL 1962:§25*l-q*; JOÜON 1993:§17*e*; GARR 1985:46): syncopation of both glides and laryngeals in intervocalic position,<sup>8</sup> and anaptyxis between consonantal clusters.<sup>9</sup> Two unconditioned sound changes which occurred in Hebrew are also important for the following analysis: *\*â/ā > ō* (by the 10<sup>th</sup> century B.C.E.)<sup>10</sup> and tonic lengthening, i.e., *\*á > ā*, *\*é/í > ē*, *\*ú/ó > ō*.<sup>11</sup> Finally, the following analysis depends on the observation of both syllable (+), morpheme (-), and word boundaries (#).<sup>12</sup>

<sup>6</sup> Cf. LIPÍŃSKI 1997:§32.1 for the proposal of an original diptotic system, rather than the traditionally proposed triptotic system.

<sup>7</sup> The case system is present and fully functional in Canaanite during the 14<sup>th</sup> century, as demonstrated by the Tell el-Amarna tablets (see RAINEY 1996a:161ff).

<sup>8</sup> Although syncopation of *w*, *y*, and *h* is a relatively early phenomenon in the history of Hebrew, it appears that it was in process during the 14<sup>th</sup> c. B.C.E. (see Rainey 1996a:23-24, 39, 108, 129, 148, 153; HESS 1993:186). See also LONG 1997:15; GARR 1985:52-54.

<sup>9</sup> It is only logical that anaptyxis was conditioned by the loss of final case vowels which resulted in the phonologically undesirable consonantal clusters. However, the evidence supplied by the Greek transcriptions of the 3<sup>rd</sup> century CE (cf. SÁENZ-BADILLOS 1993:85), reflects both anaptyctic vowels as well as consonant clusters, thus suggesting that anaptyxis was not a consistent phonological feature until a relatively late point within the history of Hebrew (e.g. the Masoretic period).

<sup>10</sup> The sound change *\*â/ā > ō* is often referred to as the 'Canaanite Shift' and it must have taken place very early; it appears to be in process within the Canaanite of the 14<sup>th</sup> century Amarna period (see RAINEY 1996a:48; also MOSCATI 1980:§8.74; LIPÍŃSKI 1997:§21.12).

<sup>11</sup> To illustrate tonic lengthening I have used macrons over the stress-lengthened vowels. However, macrons are also traditionally used over originally long vowels. Admittedly, this type of transcription may result in confusion between Hebrew *ō* (lengthened) and *ō (<\*ā)*, and also between Hebrew *ā* (lengthened) and Proto-Semitic *ā*. In the present paper, *ā* will only represent stress lengthened vowels unless noted otherwise. On the other hand, *ō* will only represent an originally long vowel (<\*ā/ā). In addition, I will represent both the *qameṣ-ḥatuf* and the stress lengthened *holem* with *o* for clarity in the present argument (see the chart below), although it deviates from common practice.

Although the PS vowel system is reconstructed as three long and three short vowels (see first column in the chart below), the complete vowel system of Classical Hebrew is presumably: *a, a, ā, ā, e, ē, ê, i, î, í, o, ō, ô, u, ū, û*. The chart below illustrates the relationships of the simple vowels



### 1.1. Nominal Evidence

Many nominal patterns in PS contained long vowels, usually in the first syllable (e.g., C $\bar{V}$ C $\bar{V}$ C) or in the final syllable (e.g., C $\bar{V}$ C, C $\bar{V}$ C $\bar{V}$ C, C $\bar{V}$ CC $\bar{V}$ C). Consider the following Hebrew realization of the underlying pattern C $\bar{V}$ C $\bar{V}$ C with the masculine singular inflectional suffix (-Ø):<sup>13</sup>

1a) *g<sup>e</sup>ḥīr* 'lord'

The feminine form is realized by two allomorphs, \*-t, \*-at (both common in Proto-Semitic and Classical Hebrew<sup>14</sup>), which are affixed to the stem before the original case vowel. Consider the following feminine forms:

2a) *g<sup>e</sup>ḥīrā* 'lady'

2b) *g<sup>e</sup>ḥéret* 'lady'

2c) *g<sup>e</sup>ḥéret* 'lady of-' [bound form]

Examples (2b-c) demonstrate that when the allomorph \*-t is added to a noun pattern with a long vowel in the final syllable, the resulting form contains a short vowel in place of the long vowel. However, (2a) shows that when the allomorph \*-at (> ā) is added, the form retains the long vowel. One possible analysis would be to identify two underlying patterns for the feminine forms listed above, one with a short vowel and one with the same long vowel seen in the masculine form. However, I would like to propose a more economical analysis. Consider the underlying (i.e., Proto-Semitic) syllabic structure of the lexemes in the chart below. The first column contains the Proto-Semitic stem, the second contains the stem plus the appropriate feminine singular allomorph and the nominative case suffix -u, the third contains the redivided syllabic structure after affixation and the loss of final short vowels, and the final column contains the Hebrew data:

within Classical Hebrew (to be distinguished from the qualitative vowel system of the Tiberian Masoretic Text):

PS Vowels	Classical Hebrew vowels			
	Long	Lengthened Short	Short	Reduced Short
*/ā/, */ā/	(> $\bar{o}$ )	$\bar{a}$ ←	→ a ←	→ $\overset{c}{a}$
*/ī/, */ī/	ī	$\bar{e}$ ←	→ e,i ←	→ $\overset{c}{e}$
*/ū/, */ū/	ū	o ←	→ o,u ←	→ $\overset{c}{o}$

<sup>12</sup> Morpheme boundaries in this paper are a reflection of linear analysis. Hence, this excludes any type of marking for the Semitic discontinuous root morpheme.

<sup>13</sup> In this paper, I will not indicate those consonants (*w*, *y*, *h* or *ʔ*) used to mark vowels, i.e. the so-called *matres lectionis*.

<sup>14</sup> There is a morpho-syntactic difference in Classical Hebrew: on the one hand, \*-t is commonly used to mark both feminine singular free and bound words; \*-at, on the other hand, is in complementary distribution with the morpheme -ā (a diachronically later morpheme), the former marking the bound form, the latter marking the free form.



Proto-Semitic	→ <sup>15</sup>	→	Hebrew
3a) *gibīr-	*gi+bīr-at-u	*gi+bī+rat#	<i>g<sup>e</sup>bīrā</i>
3b) *gibīr-	*gi+bīr-t-u	*gi+birt#	<i>g<sup>e</sup>bēret</i>
3c) *šalāš-	*ša+lōš-at-u	*ša+lō+šat#	<i>š<sup>e</sup>lōšā</i>
3d) *šalāš-	*ša+lōš-t-u	*ša+lušt#	<i>š<sup>e</sup>lōšet<sup>16</sup></i>
3e) *ʾaddīr-	*ʾad+dīr-t-u	*ʾad+dirt#	<i>ʾaddéret</i>

This evidence<sup>17</sup> suggests the following analysis:

- 4) V [+long] > V [-long] / \_ CC.<sup>18</sup>

In this way, the development of Hebrew *g<sup>e</sup>bēret* ‘lady’ (Isa 47:7), ‘lady of-’ (Isa 47:5) is: \**gibīr-t-u* > \**gi+bir+tu* > \**gi+birt#* > \**gibiret* > *g<sup>e</sup>bēret*<sup>19</sup>.

The value of this analysis lies in its ability to account for the feminine forms (see the chart above) as well as for the masculine form (\**gibīr-u* > \**gi+bī+ru* > *g<sup>e</sup>bīr*). Furthermore, we may propose a relative placement of this sound change within the historical development of Hebrew: it must have occurred after the loss of final short vowels, but before the addition of anaptyctic vowels (which open the final syllable). Now that we have analyzed the nominal evidence, the following question arises: Did the sound change given in (4) operate outside of nominal morphology? The following section treats the verbal evidence.

## 1.2 Verbal Evidence

Consider the development of the causative (Hif'il) imperative (5a-c) and jussive (6a-c):

<sup>15</sup> I am including the Canaanite Shift (\**ā* > *ō*) in this column.

<sup>16</sup> This datum presents ambiguous evidence. According to the current analysis, \**ā* > *ō* (Canaanite Shift) > *u* (reduction of long vowel) > *o* (tonic lengthening of short vowel).

<sup>17</sup> More evidence lies in the forms of these nouns with pronominal suffixes: *g<sup>e</sup>bīrī* ‘my mistress’ (Gen 16:8); *g<sup>e</sup>bīrātāh* ‘her lady’ (Gen 16:4); *g<sup>e</sup>bīrētēk* ‘your mistress’ (Gen 16:9); *š<sup>e</sup>lōšām* ‘three of them’ (Ezek 40:10); *š<sup>e</sup>lōšēkēm* ‘three of you’ (Num 12:4); *ʾaddartō* ‘his mantle’ (1 Kgs 19:13); *ʾaddartām* ‘their glory’ (Zec 11:3); cf. *n<sup>e</sup>hōšī* ‘my bronze (fetters)’ (Lam 3:7); *n<sup>e</sup>hūšātāh* ‘its copper’ (Ezek 24:11).

<sup>18</sup> In their historical grammar, Bauer and Leander note the shortening of long vowels in both nominal and verbal stems, “Lange Vokale in geschlossener Silbe wurden im Ursem. gekürzt... Drucklose, lange Vokale in offener Silbe wurden gekürzt, wenn sie einer betonten Länge vorangingen...” (BL 1962:§26; cf. BERGSTRÄSSER 1962:§23). While this observation accurately accounts for the Hebrew data, the evidence of Biblical Aramaic, e.g., *qāmī* ‘you arose’, should prohibit us from declaring this to be an “Ursemitischen” principle. In his *Student’s Manual*, Long also observed this phenomenon, specifically in regard to *n<sup>e</sup>hōšet* ‘bronze’, “the Arabic cognate *nuḥās*, supports a historical development from \**qutāl(+at?)* as follows: \**nuḥās(+at?)* > \**nuḥōš(+atā)* > \**nuḥūš+t...* > \**nuḥōšt* > *n<sup>e</sup>hōšet*” (p. 28). Unfortunately, Long categorizes this as an “obscure development” (p. 31).

<sup>19</sup> Anticipatory assimilation of *i* > *e* and the reduction of the propretonic short vowel in an open syllable.















- 12a) \*qawam-a > \*qa+wa+ma+ > \*qaa+ma+ > qām+ 'he stood'  
 12b) \*yašwub-u > \*ya+šuu+bu+ > yā+šūb+ 'he will return'

An important implication of this analysis is that the rule given in (11) must be applied to pre-Classical Hebrew forms. If it applied to the Classical Hebrew realizations, then the long vowels in (12a-b) should have reduced.

In summary, this phonological rule must have operated after the Canaanite Shift, but before both the loss of the case vowels (which provided the necessary syllabic structure) and anaptyxis (which effectively destroyed the conditioning environment of closed syllables).

Many of the features of the Hebrew prefix verbal system have been introduced in the course of the this section. It will now be fruitful to step back and approach the prefix verb as a whole in order to demonstrate the explanatory value of the specified sound change: V [+long] > V [-long] / \_ C+.

### III. The Classical Hebrew Prefix Verb

The following reconstruction of the prefix verb is based upon comparative Arabic data (see MOSCATI 1980:131ff.; LIPÍŃSKI 1997:§§38-39), internal Hebrew reconstruction, and the particularly important Canaanite evidence of Tell el-Amarna (RAINEY 1996b:220).<sup>34</sup> Rainey has proposed the schema outlined below for the prefix verbal system in the Canaanite of the Amarna letters:

	Indicative		Injunctive
Preterite:	<i>yaqtul, -û</i>	Jussive <sup>35</sup>	<i>yaqtul, -û</i>
Imperfect:	<i>yaqtulu, -ûna</i>	Volitive	<i>yaqtula, -û</i>
Energic:	<i>yaqtulun(n)a</i>	Energic	<i>yaqtulan(n)a</i>

Using the Ilwy verb with its revealing morphology (cf. JOÛON 1993:§117c), the following chart shows the relationship between the Canaanite and the Hebrew systems:

Furthermore, it should be noted that this is not a novel concept to those who have studied Arabic morphology (see WRIGHT §§25,151; MOSCATI 1980:§10.3; and ARISTAR 1979:211).

<sup>34</sup> Many will recognize the influence of A.F. Rainey's 1986 study. Valuable contributions were also made in the symposium responding to his article: RAINEY 1988; GREENSTEIN 1988; HUEHNERGARD 1988; and ZEVIT 1988.

<sup>35</sup> HUEHNERGARD (1988) argues for one verbal form representing both the preterite and the jussive rather than two homophonous forms (p. 20).



	Canaanite	→	→	Hebrew
Preterite:	*yašwub-Ø	>	*ya+šúb+	> *ya+šúb+ > yāšób <sup>36</sup> (Isa 12:1) <sup>37</sup> / wayyāšób (Gen 22:19; cf. yāšēb, Ps 90:3 [Hif'il])
Imperfect:	*yaqwum-u	>	*ya+qú+mu+	> yāqúm (Isa 40:8)
Energic:	*yaqwum-un(n)a	>	*ya+qú+mun+	> yeqúmún (Deut 33:11)
Jussive:	*yašwub-Ø	>	*ya+šúb+	> *ya+šúb+ > yāšób (Num 25:4)
Volitive:	*yaḥwiš-a	>	yā+ḥî+šā+	> yāḥīšā (Isa 5:19 [Hif'il])
Energic:	*yaqwum-an(n)a	–	unattested	

Considering the above data, we see that the short vowel in the Classical Hebrew preterite/jussive demonstrates the effect of the historically closed syllable upon the *û*. The imperfect and volitive forms support the corollary – open syllables allow the retention of long vowels. One further example is instructive:

- 13) \*yašwub-û > \*ya+šú+bû > yašúbû ‘let them return’ (1 Kgs 22:17), ‘they will return’ (Jer 22:27), ‘they returned’ (*imperfective*, Jdg 2:19; *preterite*, 2 Sam 23:10)<sup>38</sup>

Example (13) demonstrates the length of the vowel underlying the Hebrew data and the resulting ambiguity of the Classical Hebrew realization when V [+long] > V [-long] / \_ C+ does not apply (i.e. the jussive, preterite, and imperfective have homophonous forms).

What is particularly relevant for the study of the prefix verbal system is what can now be said about forms other than the third masculine singular. In his grammar, Joüon states that the jussive form “cannot be seen” in many cases (114g n. 1) and also that it does not appear with suffixation but is replaced by the indicative form (§46a). However, this conclusion is misguided. In such cases, it is not that the morphological form identified as the jussive disappears or is replaced by a non-jussive form. Rather, the preterite/jussive forms *become* homophonous with the “long” prefix verb. For example, in 1 Sam 27:11 and Prov 4:25, the context makes it clear that the verbs *yaggîdû* and *yayšîrû* are semantically jussive since they are bracketed by imperatives. I would argue that they should also be *parsed* as jussives even though they no longer exhibit the “short” form. Furthermore, when suffixes are added to the preterite/jussive (e.g. the preterite *yarkîbêhû* in Deut 32:13), the “short” forms (i.e. \**yarkêb*) also “disappear”; or better, the final syllable of the verb is opened allowing the paradigmatic long vowel (of the Hif'il in this case) to be preserved. Therefore, rather than drawing the conclusion that there is paradigm “mixing”, we should allow for the possibility of a full jussive/preterite paradigm

<sup>36</sup> The realized form exhibits ‘tonic lengthening’ (see above in section I and footnote n. 11). Also cf. *tāšób* ‘let her/you (ms) return’.

<sup>37</sup> Cf. *wattāšób* ‘and she/you (ms) returned’ and *wannāšób* ‘and we returned’. The preterite with and without the conjunction *wa*: are identical in underlying form; the difference lies in the shift in word stress in preterite with the conjunction which results in the final closed unstressed syllable (a syllable type which may carry only a short vowel in Classical Hebrew).

<sup>38</sup> Cf. *wayyāšúbû* ‘and they returned’.



which happens to be homophonous with the imperfective paradigm in many of the forms. In these cases, morphology can no longer be used to disambiguate verbal forms; context and syntax are the best recourse.

#### IV. Conclusion

The explanatory value of the rule  $V [+long] > V [-long] / \_ C+$  is at least fivefold. First, recognition that its application was limited to pre-Classical Hebrew (or possibly to 'Canaanite') explains why Aramaic (a non-Canaanite language) differs – it does not share this phonological innovation with Hebrew.<sup>39</sup> Second, it explains the retention of the long vowels in the IIwy verbs in particular verbal forms (i.e., those with historically open syllables). Third, the effect of this rule on the morphological structure of the prefix verbs suggests the possible existence of previously unidentified jussive/preterite prefix verbs in the biblical material. Fourth, the relative ordering of this change among other historical developments (Canaanite Shift, loss of case vowels, and anaptyxis) contributes to our understanding of history of the Hebrew language. Finally, by demonstrating the general nature of the rule  $V [+long] > V [-long] / \_ C+$  (i.e., it clearly operated in both nominal and verbal morphology), I have made a case for its inclusion in any grammar which introduces basic historical data and reconstructions.

#### Bibliography

- ANTTILA, RAIMO: 1989. *Historical and Comparative Linguistics*. Amsterdam: John Benjamins Publishing Company.
- ARISTAR, A.M.R.: 1979. *The IIwy Verbs and the Vowel System of Proto-West Semitic*. *Afroasiatic Linguistics* 6, n. 6: 209-225.
- BAUER, HANS; LEANDER, PONTUS: 1962. *Historische Grammatik der hebräischen Sprache des Alten Testaments*. Hildesheim: Georg Olms Verlagsbuchhandlung, 1922 [reprinted, 1962]. [=BL]
- BERGSTRÄSSER, GOTTHELF: 1962. *Hebräische Grammatik*. 2 vols. 29th ed. Leipzig: Vogel, 1918-29 [reprinted, Hildesheim: Georg Olms Verlagsbuchhandlung, 1962].
- BERGSTRÄSSER, GOTTHELF: 1995. *Introduction to the Semitic Languages*. Translated by Peter T. Daniels. Winona Lake: Eisenbrauns.
- BROWN, FRANCIS; DRIVER, S. R.; BRIGGS, C. A.: 1979. *The New Brown-Driver-Briggs Hebrew-English Lexicon*. Peabody: Hendrickson.
- CROWLEY, TERRY: 1997. *An Introduction to Historical Linguistics*. 3rd ed. Oxford: Oxford University Press.

<sup>39</sup> An examination of even the rather small lexicon of Biblical Aramaic produces many examples of long vowels existing in closed syllables. However, it may be argued that it is Aramaic which is innovative and Hebrew which is conservative. Either way, the languages differ in this regard.



- EVEN-SHOSHAN, ABRAHAM: 1990. *A New Concordance of the Old Testament*. 2nd ed. Jerusalem: Kiryat Sefer Publishing House.
- GARR, W. RANDALL: 1985. *Dialect Geography of Syria-Palestine: 1000-586 B.C.E.* Philadelphia: University of Pennsylvania Press.
- GREENSTEIN, EDWARD. L.: 1988. *On the Prefixed Preterite in Biblical Hebrew*. HS 29:7-17.
- HESS, RICHARD S.: 1993. *Amarna Personal Names*. Vol. 9. American Schools of Oriental Reserach Dissertation Series. Winona Lake: Eisenbrauns.
- HUEHNERGARD, JOHN: 1988. *The Early Hebrew Prefix-Conjugations*. HS 29:19-23.
- JOÜON, PAUL: 1993. *A Grammar of Biblical Hebrew*. Translated and revised by Takamitsu Muraoka. Rome: Editrice Pontificio Istituto Biblico. [=JM]
- KAUTZSCH, EMIL: 1910. *Gesenius' Hebrew Grammar*. Translated by A. E. Cowley. Second English ed. Oxford: Clarendon Press, 1910. [=GKC]
- LIPÍNSKI, EDWARD: 1997. *Semitic Languages: Outline of a Comparative Grammar*. Leuven: Peeters Publishers.
- LONG, GARY: 1997. *A Student's Manual for a Historical Linguistic Foundation in Biblical Hebrew*, manuscript.
- MOSCATI, SABATINO: 1980. *An Introduction to the Comparative Grammer of the Semitic Languages: Phonology and Morphology*. Wiesbaden: Otto Harrassowitz.
- RAINEY, ANSON F.: 1986. *The Ancient Hebrew Prefix Conjugation in the Light of Amarnah Canaanite*. HS 27:4-19.
- RAINEY, ANSON F.: 1988. *Further Remarks on the Hebrew Verbal System*. HS 29:35-42.
- RAINEY, ANSON F.: 1996a. *Canaanite in the Amarna Tablets: A Linguistic Analysis of the Mixed Dialect Used by the Scribes from Canaan. Vol. 1: Orthography, Phonology, Morphosyntactic Analysis of the Pronouns, Nouns, Numerals*. 4 vols. Leiden: E.J. Brill.
- RAINEY, ANSON F.: 1996b. *Canaanite in the Amarna Tablets: A Linguistic Analysis of the Mixed Dialect Used by the Scribes from Canaan. Vol. 2: Morphosyntactic Analysis of the Verbal System*. 4 vols. Leiden: E.J. Brill.
- SÁENZ-BADILLOS, ANGEL: 1993. *A History of the Hebrew Language*. Cambridge: Cambridge University Press.
- SEGERT, STANISLAV: 1984. *A Basic Grammar of the Ugaritic Language*. Berkeley: University of California Press.
- WALTKE, BRUCE K.; O'CONNOR, MICHAEL P.: 1990. *An Introduction to Biblical Hebrew Syntax*. Winona Lake: Eisenbrauns. [=WOC]
- WRIGHT, WILLIAM: 1898. *A Grammar of the Arabic Language*. Vol. 1. 2 vols. 3rd ed. Cambridge: University Press.
- ZEVIT, ZIONY: 1988. *Talking Funny in Biblical Hebrew and Solving a Problem of the Yaqtûl Past Tense*. HS 29:25-33.



*Abstract:*

The task of the present work is the specification of a sometimes overlooked phonological rule in Classical Hebrew: V [+long] > V [-long] / \_ C+. This phonological rule is analyzed in relation to the status of long vowels in Classical Hebrew phonology, the internal structure of the middle-glide verbs (Ilwy verbs) and the structure and development of the prefix verbs. It was found that the explanatory value of the rule V [+long] > V [-long] / \_ C+ is at least fivefold. First, recognition that its application was limited to pre-Classical Hebrew (or possibly to 'Canaanite') explains why Aramaic (a non-Canaanite language) differs - it does not share this phonological innovation with Hebrew. Second, it explains the retention of the long vowels in the Ilwy verbs in particular verbal forms (i.e., those with historically open syllables). Third, the effect of this rule on the morphological structure of the prefix verbs suggests the possible existence of previously unidentified jussive / preterite prefix verbs in the biblical material. Fourth, the relative ordering of this change among other historical developments (Canaanite Shift, loss of case vowels, and anaptyxis) contributes to our understanding of the Hebrew language. Finally, by demonstrating the general nature of the rule V [+long] > V [-long] / \_ C+ (i.e., it clearly operated in both nominal and verbal morphology), a case is made for its inclusion in any grammar which introduces basic historical data and reconstructions.

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