H > H IN ASSYRIA AND BABYLONIA*

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What is it about Mesopotamia that continues to hold West Semites like my distinguished friend and colleague, Prof. Barry Eichler, in thrall so many centuries after the Assyrian and Babylonian captivities? Only Barry can answer that question, and I suspect he will do so in his remarks. I wish to address a more modest question. How should Barry pronounce the word that to this day is used to refer to the devastation visited by the East Semites on his ancient homeland—the Yiddish word *khurbn*?

Semitic originally had a contrast between the voiceless pharyngeal fricative *h and the voiceless uvular fricative *h; a minimal pair that can be reconstructed for Proto-West-Semitic is * $h\bar{a}lum$ "sand" \neq * $h\bar{a}lum$ "maternal uncle." Until two or three decades ago, most Semitists assumed that uvular *h was lost already in Old Aramaic, as the result of a merger with pharyngeal *h.¹ Today, thanks to papyrus Amherst 63 (the Aramaic text in Demotic script), there is a new conventional wisdom. That text, probably dictated to an Egyptian scribe at the beginning of the third century BCE, consistently distinguishes *h from *h.² Thus, Aram. That ext, probably dictated with Demotic h in four places (cf. Ug. hmt "wine"), while Aram. That "venom" is transcribed with Demotic h in three places (cf. Ug. hmt "venom").³ Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Ug. hmt "venom"). Similarly, Aram. Thoremotic h in three places (cf. Arab. manhat "nostril" and hahtar "snort"), while Aram. Thoremotic hatar "nostril" and hahtar "snort"), while Aram. Thoremotic hatar "copper" thoremotic hatar "nostril" and hahtar "sn

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¹ See, for example, Degen, *Altaramäische Grammatik*, 37; and Segert, *Altaramäische Grammatik*, 88.

² So already Nims and Steiner, "A Paganized Version," 263: "the Proto-Semitic contrast of *h* with *h* is perfectly preserved." See now Steiner, "On the Dating," 235–37.

³ Steiner and Moshavi, "A Selective Glossary," 1256, 1257.

⁴ Steiner and Moshavi, "A Selective Glossary," 1260–61.

During the past two decades, this discovery has made its way into the handbooks.⁵ However, it would be hasty to conclude that the earlier assumption was completely wrong. After all, Amherst 63 comes from Egypt. What about the other areas where Aramaic was spoken, especially Mesopotamia? How long was uvular *h preserved there?

In this article I shall attempt to answer that question. I shall argue that Amherst 63 sheds light on the fate of *h in Mesopotamia as well as Egypt—and perhaps even in Akkadian as well as Aramaic. Examination of the evidence will suggest that the shift h > h occurred in Assyria before it occurred in Egypt and before it occurred in Babylonia.

Aramaic Renderings of Akkadian H

Amherst 63 contains several Akkadian loanwords relevant to our problem, loanwords that exhibit inconsistency in the treatment of Akk. h. In one of them, \Box "baker" (V/5 $nh.t^m$ $m.k.^m$ "your baker") < nuhatimmu"cook/baker,"⁶ Akk. h is rendered with Aram. h (written with Dem. h in this instance). This is the usual rendering of Akk. h in West Semitic both earlier and later. Thus, from Akk. $mah\bar{n}ru$ "purchase, purchase price" in the second millennium BCE, we find Ug. mhr "price" with h.⁷ Much later, in Arabic, we find four renderings with h: $fahh\bar{a}r$ "(baked) pottery" < $pah\bar{a}ru$ "potter," hazaf "(unbaked) pottery" < hasbu "clay, sherd, pot" (cf. Dan 2:41 \Box \Box \Box \Box , habiya "a large jar" < $hab\hat{u}$ "earthenware jug," and nushah "copy" < nishu "copy."⁸

In another loanword, $\exists \exists \exists \exists$ "governor" (XVIII/4 ph^m , XIX/2 ph^m) < pahatu "governor," Akk. h shows up rendered with a pharyngeal h.⁹ This is not due to mishearing; the same Akkadian word appears as *fht* in

⁵ Beyer, *Die aramäischen Texte*, 101–2; Hug, *Altaramäische Grammatik*, 51; Segert, "Old Aramaic Phonology," 118–19; Muraoka and Porten, *A Grammar of Egyptian Aramaic*, 10 nn. 36–37.

⁶ P.-A. Beaulieu informs me (email communication, March 16, 2009) that "in LB temple archives, it seems that the *nuhatimmu* is the baker, as he is responsible for preparing cakes, sweets, and bread."

⁷ CAD M/1, 97; Del Olmo Lete and Sanmartin, A Dictionary of the Ugaritic Language, 539–40. Cf. Hoch, Semitic Words in Egyptian Texts, 150–51.

⁸ Kaufman, Akkadian Influences, 53, 54, 78, 79. Note that most of these words do not seem to be scholastic borrowings, borrowed from a dead or dying language; four of them relate to everyday occupations such as baking and pottery. They must have been borrowed by Babylonian Aramaic before the Late Babylonian period (from 625 BCE until the disappearance of cuneiform documents). At that period, Akkadian was "an imperfectly learned, dying language" (ibid., 169).

⁹ Steiner and Nims, "Ashurbanipal and Shamash-shum-ukin," 71, 73, as corrected in Steiner, "The Aramaic Text in Demotic Script," 323, 324.

a Liḥyanite inscription of the Persian period (mid-fifth century BCE).¹⁰ We may also note the absence of χ in the Septuagint's rendering of three names of Akkadian origin: (1) A σ op($\alpha\delta$) $\delta\alpha\nu = \neg$ \neg Kgs 19:37, Isa 37: 38) < *Assur-ah-iddina*, (2) A $\lambda\alpha\varepsilon = \neg$ \neg \neg (2 Kgs 17:6, 18:11) < *Halahhu*, and (3) A $\beta\omega\rho = \neg$ \Box (2 Kgs 17:6, 18:11) < *Hābūr*.¹¹ In all three names, there is a zero-rendering of Hebrew \neg ; in \neg \neg \neg , there is also a rendering with ε . Both are normal renderings of pharyngeal h in the LXX; for uvular h, the LXX uses χ .¹²

Why do שהה "governor" and אסר חרן "Esarhaddon" differ from "baker" and הבית "jar" in their treatment of Akk. h? The first explanation that comes to mind is chronological: we might assume that and הבית (with Aram. h for Akk. h) were exported from Mesopotamia earlier than הביח (with Aram. h for Akk. h), i.e., before the sound [h] was lost in Akkadian and/or Aramaic. This is hardly likely, however, since מחר ברוק and אסר הרן is first attested in Amherst 63 (beginning of the third century BCE)¹³ and הבית is not attested until the Nisa ostraca (first century BCE)¹⁴ A more likely explanation is geographical: the forms with pharyngeal h come from Assyria rather than from Babylonia.

¹⁰ For the dating of the Lihyanite inscription, see Winnett, A Study of the Lihyanite and Thamudic Inscriptions, 50–51; Grimme, "Neubearbeitung," 311; Albright, "Dedan," 4; Winnett and Reed, Ancient Records from North Arabia, 115–16; Eph'al, The Ancient Arabs, 212; and id., "Syria-Palestine under Achaemenid Rule," 163. The later dating of Caskel (Lihyan und Lihyanisch, 101–2) is part of a downward revision of Lihyanite chronology that has not been accepted; see Müller, "Das Frühnordarabische," 21, 22. Note also LXX φααθμωαβ for the name and but the absence of χ proves little here, since the Greek translation of Ezra-Nehemiah, in which this transcription appears, reflects a stage of Hebrew in which *h has already merged with h; see Blau, On Polyphony, 65–67; and Steiner, "On the Dating," 261. Blau (On Polyphony, 67) adds that the word already shifted to h," thereby anticipating our conclusion.

¹¹ See Blau, On Polyphony, 44–45, 48; cf. also Wutz, Die Transkriptionen von der Septuaginta, 139.

¹² Blau, On Polyphony; Steiner, "On the Dating"; id., "A-Coloring Consonants."

¹³ Also from the third century BCE is an Egyptian ostracon in which a man is identified as כהתנא ; see Porten and Yardeni, *TAD*, 4.202–3, RÉS 1301 l. 7.

¹⁴ Hoftijzer and Jongeling, *Dictionary*, 357 s.v. *hwt*.

H and H in Assyria

Let us look first at Assyria. According to P. V. Mankowski, "the BH and Aramaic forms [of $\exists \exists \exists \exists \exists$] are certain loans from Assyrian."¹⁵ This seems plausible: the loanword derives from an Akkadian term that came to be widely used at the time of the Neo-Assyrian empire,¹⁶ and two of its literary occurrences are in speeches of Assyrians (an Assyrian official in 2 Kgs 18:17 and an Assyrian king in Amherst 63, XIX/2). An Assyrian origin is even more likely for the examples from the Septuagint; one, $A\sigma op(\alpha\delta)\delta\alpha\nu$, is the name of an Assyrian king and the other two, $A\lambda\alpha\epsilon$ and $A\beta\omega\rho$, are toponyms mentioned in connection with Assyrian kings. The evidence suggests that there was a shift h > h in Assyria before the fall of Nineveh in 612 BCE. However, from the evidence presented thus far, it is not clear whether this shift took place in Aramaic (with phonemic merger) or Akkadian (without phonemic merger) or both. Any one of these scenarios would account for the h in ph^m/ph ." and fht and for the absence of χ in $A\sigma op(\alpha\delta)\delta\alpha\nu$, $A\lambda\alpha\epsilon$, and $A\beta\omega\rho$.

Evidence that seems to bear on this question comes from a Neo-Assyrian inscription of Esarhaddon in which the Median name **Xsa0rita*-appears with an initial *k*: *Ka-áš-ta-ri-ti*, *Kaš-ta-ri-ti*.¹⁷ Assuming that the Median name was really pronounced with an initial [x],¹⁸ it is difficult to understand why *k* would be used to render it. Why not use *h* as in *Ha-šá-at-ri-tu*₄, the Late Babylonian (Darius I) rendering of the same name?¹⁹ This evidence suggests that the shift affected the Akkadian spoken in Assyria, at the very least. I came to this conclusion before I knew that the shift had already been posited, on independent grounds, for that dialect. According to J. Hämeen-Anttila, "*h* (velar [*h*]) has probably been changed in Neo-Assyrian to pharyngeal *h* or even to laryngeal *h*."²⁰ Since two pieces of evidence for the shift involve Esarhaddon, we may conclude that it probably occurred during his reign (681–669 BCE) at the latest.

What about the *Aramaic* spoken in Assyria? We cannot rule out the possibility that the shift occurred only in the Assyrian dialect of Akka-

¹⁵ Mankowski, Akkadian Loanwords, 128.

¹⁶ See, for example, Henshaw, "The Office of Saknu," 465, 479–83; Mankowski, *Akkadian Loanwords*, 128–29; and the literature cited in these sources.

 ¹⁷ Zadok, *The Ethno-linguistic Character*, 66 (§6.10); Borger, "Kas/štarita," 476. The Assyrian form is probably to be read *Kastarita* rather than *Kaštarita*.
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¹⁸ See n. 41 below.

¹⁹ Malbran-Labat, *La version akkadienne*, 103 (§41); Hinz, "Kyaxares," 399.

²⁰ Hameen-Anttila, A Sketch of Neo-Assyrian Grammar, 15.

dian, leaving *h unchanged in the Assyrian dialect of Aramaic. That scenario would suffice to account for the appearance of the Akkadian loanword are with a pharyngeal h in Egypt and Arabia. Nevertheless, since the entire population of Assyria spoke Aramaic by the beginning of the seventh century BCE, the speakers of Akkadian being bilingual,²¹ it seems more likely that the two languages would have changed their pronunciation in tandem. Moreover, the shift would have been far more natural in Aramaic, since it already possessed the rare and difficult pharyngeal sound [h].

The evidence for the loss of **h* in Assyria is surprisingly inconsistent. (19:37) < Assur-ah-iddina, we find $\Sigma \varepsilon v \alpha \chi \eta \rho \mu = 360 (19:36) < Sin$ *ahhe-eriba*.²² Sennacherib appears with χ in other sources, as well: Herodotus' Histories (2.141.2 Σαναχαριβος) and Josephus' Antiquities (10.1.1 \$1, etc. Σεναχειριμος). Similarly, Esarhaddon appears with χ in Tobit (1:21 Σαχερδονος) and in Josephus' Antiquities (10.1.5 §23 Ασαραχοδδας). Finally, the Habor River appears with χ in the Septuagint to 1 Chronicles (5:26 Χαβωρ) and in Ptolemy's Geography (5.18 §3 Χαβωρας), with ch in Pliny's Natural History (31.22, 32.7 Chabura), and with h in Arabic sources (al-Hābūr).²³ A similar inconsistency is found in Amherst 63, which contains another Akkadian loanword whose form and meaning point to Neo-Assyrian as its source: $\forall n \neq n$ "temple servitor" (VII/12 $r. h.n^m$ "temple servitors") < NA lahhinu "temple official."²⁴ The h in this Demotic rendering of 7π contrasts with the *h* in the Demotic rendering of JUDE. Assyrian renderings of velar fricatives in foreign names also exhibit inconsistency. In some foreign names, the Assyrians use h rather

²¹ See Parpola, "National and Ethnic Identity," 5–49 and the literature cited there. We might add that, already in the late eighth century BCE, Sargon II was fighting a losing battle against Aramaic. In one letter, he chastises his correspondent for writing to him "on an Aramaic document," asking: "Why did you not write on an Akkadian tablet?" (*CAD* S s.v. *sepēru*). Nine hundred years later we find R. Judah the Prince fighting a similar battle and asking a similar question: "Why (use) the Syrian language in the Land of Israel?" (Soţa 49b, BQ 83a).

²² This form is the only evidence cited by Mankowski (*Akkadian Loanwords*, 157) in support of his claim that "Akkadian PNs containing *x* that are attested in BH show χ in the LXX."

²³ For medieval attestations of the Arabic name, see Lassner, "Khābūr," 897– 98.

²⁴ Steiner and Moshavi, "A Selective Glossary," 1259; AHw 528; CAD A/1, 294; Porten, Archives from Elephantine, 200–1; Kaufman, Akkadian Influences, 66 n. 176.

than *k* to render initial velar fricatives, e.g, *Hi-lak/la-ak/-ku/i* = $\neg \neg$ (') $\neg \neg$ "Cilicia."²⁵

What are we to make of this inconsistency? It is possible that $^{*}h$ was not completely lost in Assyria—that some speakers in that ethnically heterogeneous land²⁶ never carried out the shift.²⁷ It is also possible that the shift took place (at least in part) during Esarhaddon's reign and that his name made its way to the West in two forms: with h before the shift and with h after it.

H and H in Babylonia

In Babylonia, there were apparently three mergers involving Aramaic □. First, *h merged with *h, as in Assyria and Palestine. Subsequently, h lost its pharyngeal constriction, merging with h. Finally, h became silent in at least some positions, merging with zero. Evidence of the second and third mergers in Mandaic and Jewish Babylonian Aramaic texts, including the magic bowls (ca. 5th–7th centuries CE), has frequently been noted.²⁸ The second merger is reflected already in the Hebrew pronunciation of R. Hiyya (late second century CE), a Babylonian disciple of R. Judah the Prince. The latter once suggested to his son that he tease R. Hiyya about his inability to distinguish \Box from \Box , with the claim that it led him to commit blasphemy when, instead of 'דרכיתי לה' I shall wait for the Lord" (Isa 8:17), he read 'והכיתי לה "I shall smite the Lord" (Megilla 24b)! The evidence for the second merger is also, indirectly, evidence for the first, since it affected \sqcap from both *h (e.g., Mandaic haila "force, army"; cf. Amherst 63, passim hyr^m "force, troop") and *h (e.g., Mandaic hiia "life"; cf. Amherst 63, XVII/7 *h.yn*^m "life").²⁹

The first merger seems to have occurred later in Babylonia than it did in Assyria. One piece of evidence comes from the Aramaic version of Darius's Bisitun inscription (ca. 510 BCE), in which the scribe uses the Aramaic letter \sqcap to render Iranian x in the toponym $\land \urcorner$, corresponding

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²⁵ For הלכין / הילכיא "Cilicians" in the Arsham letters, see Driver, Aramaic Documents, 25–28 (5:1*, 5:2, 6:4), 61; Porten and Yardeni, TAD, 1.110–11, 114–15; cf. הילך "Cilicia" in Ezek 27:11.

²⁶ See Postgate, "Ancient Assyria," and Parpola, "National and Ethnic Identity."

²⁷ One might speculate that Assyrians of Anatolian and Iranian origin did not carry out the shift because they realized /h/as[x] in their Aramaic speech.

²⁸ For discussion and literature, see Macuch, Handbook of Classical and Modern Mandaic, 79–88; Morgenstern, הארמית הבבלית היהורית, 60–61, 64–65; id., "On some Non-Standard Spellings," 251–54.

²⁹ Drower and Macuch, A Mandaic Dictionary, 120, 143; Steiner and Moshavi, "A Selective Glossary," 1256–57.

to $Rax\bar{a}$ in the Old Persian version.³⁰ This transcription suggests that uvular *h still existed in Babylonian Aramaic in ca. 510 BCE. If the letter \sqcap represented only pharyngeal h at the time, the scribe should have used \beth , which, as I have shown elsewhere, already had the value [x] in postvocalic position in Babylonian Aramaic.³¹ Indeed, the Akkadian version of the Bisitun inscription uses cuneiform k for the presumed Iranian [x] in the name U-ma-ku-is-tar,³² corresponding to Huvaxstra"Cyaxares" in the Old Persian version. Thus, the Aramaic version of the Bisitun inscription seems to provide a late-sixth-century terminus post quem for the loss of uvular h in Babylonian Aramaic.

³⁰ Greenfield and Porten, *The Bisitun Inscription*, 38–39, 60. Similarly, in the Persepolis texts (Bowman, *Aramaic Ritual Texts*, 64, 115), we find the personal name סחררה rendering an otherwise unattested *Suxra-raθa* in a document dated to year 13 of Artaxerxes I (452/51 BCE).

³² Malbran-Labat, *La version akkadienne*, 97, 99, 103; however, see n. 41 below. ³³ Driver, *Argungic Documente*, 10, 11

³³ Driver, *Aramaic Documents*, 10–11.

³⁴ Driver, *Aramaic Documents*, 34 (11:1*, 11:2), 61; Porten and Yardeni, *TAD*, 1.124.

³⁵ Driver, Aramaic Documents, 67.

³⁶ See Grelot, Documents araméens, 476; Kornfeld, Onomastica aramaica, 34; Muraoka and Porten, A Grammar of Egyptian Aramaic, 19; cf. Houwink ten Cate, The Luwian Population Groups, 149–50.

³⁷ It was a stop in initial position, but the fact that it was a fricative in postvocalic position may have promoted its use even in initial position.

ryngeal fricative \sqcap (to capture the *manner* of articulation).³⁸ If this is correct, the change would seem to have occurred before the late fifth century BCE. When we combine this terminus ante quem with the terminus post quem suggested above, we are left with the early/mid-fifth century BCE as the date of the change.

Unfortunately, this argument is weakened by the fact that the Luwian name happens to have a prefixed \neg 1 in Arsham letter 11; thus, strictly speaking, we are dealing with a postvocalic \supset . Moreover, it is not certain that the evidence from that letter reflects the linguistic situation in Babylonia; the spellings of the Luwian name could derive also from Cilicia or northern Syria. Indeed, we find a very similar hesitation between \neg and \supset in the coins of Pharnabazus, the Persian satrap of Cilicia in ca. 379–374 BCE. Some of these have $\neg \neg \neg$ for Cilicia, while others have $\neg \neg \bigcirc$ On the other hand, the use of initial \supset to render [x] is not limited to Cilician names. The same rendering is found in the word Although we cannot exclude the possibility that the explanation of this rendering is to be found in Iranian dialectal variation,⁴¹ it gives some legitimacy to our use of Arsham letter 11 to assign a late-fifth-century terminus ante quem to the sound change.

The evidence of Arsham letter 11 is contradicted by evidence from Greek transcriptions of Akkadian, which seem to suggest a later date. Westenholz has pointed to the rendering of Akk. h with χ in two examples: Aδαδναδιναχης = *Adad-nādin-ahhē and Σεχες (for *Σεχετ) = šihţu "Mercury."⁴² The so-called "Graeco-Babyloniaca" texts use Greek ξ to render Babylonian h with one exception.⁴³ In one tablet, we find γισιμαρ

³⁸ It is also possible that, by the late fifth century, the use of π to write Luwian h was a historical spelling.

³⁹ Cooke, A Text-Book of North-Semitic Inscriptions, 343–44 (cf. 346).

⁴⁰ This etymology, proposed by M. Schaeder, is universally accepted today. The existence in BA (Dan 5:29) of a denominative verb from the same root shows that the borrowing was not a recent one.

⁴¹ S. Shaked informs me (email communication, July 15, 2003) that "in *xrausa*the initial *x* is etymologically a *k* realized as a fricative because it forms a cluster with the following consonant. This is true, incidentally, of most other cases of *x* in Iranian.... It is arguable that in one of the Iranian dialects Iranian *k* was not pronounced *x* in the case of **krausa*- (and possibly in other cases as well), and that it was from this dialect that Aramaic borrowed the word."

⁴² Westenholz, "Graeco-Babyloniaca," 283.

⁴³ Knudsen, "Akkadian in Greek Orthography," 73, 75; Geller, "Last Wedge," 67; Westenholz, "Graeco-Babyloniaca," 282. This rendering is unique. Elsewhere we find ξ used for s or s; see Steiner, *Affricated Sade*," 69.

Mηλω Mηλ^τω¹ = gišimmar Meluhha Meluhhū "date-palm of Meluhha" and $\sigma_{OO\zeta} = suhuššu$ "young date-palm."⁴⁴ Here we see Sumerian and Akkadian h rendered by zero, even when geminated.⁴⁵ If these exceptional renderings are the result of a sound change in Babylonian *Aramaic*, we might have to date that sound change to the first century BCE or CE, around the time that it occurred in Palestinian Aramaic.

Conclusions

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⁴⁴ Sollberger, "Graeco-Babyloniaca," 66; Geller, "Last Wedge," 70.

⁴⁵ It is difficult to accept the view of Westenholz ("Graeco-Babyloniaca," 291) that the zero-rendering is found with Sumerian *h* but not Akkadian *h*, because it is difficult to understand how Sumerian phonology could have escaped the influence of Akkadian phonology once Sumerian became a dead language, and how both of them could have escaped the influence of Aramaic phonology once Akkadian became a dead language. The influence of spoken languages on dead languages is well known from Latin and Hebrew. For Latin in France, see Smith, "The English Language," 168: "Every change in the vernacular extended simultaneously to the pronunciation of Latin." For Latin in England, see Brittain, *Latin in Church*, 55: "Since the time of Erasmus, it has followed the changes in English phonetics step by step." For Hebrew examples, see Steiner, "Variation, Simplifying Assumptions," *60 n. 30.

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