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Proposals from the Script Encoding Initiative

Title

Final proposal to encode Anatolian Hieroglyphs in the SMP of the UCS

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1. Introduction. Anatolian Hieroglyphs were first thought to have been used for the Hittite language, because they first appeared on personal seals from Hattusha, the capital of the Hittite Empire. While Hittites did make use of the characters on seals and on their monumental inscriptions, the characters were used as text primarily for the related language Luwian; a few glosses in Urartian and some divine names in Hurrian are known to be written in Anatolian Hieroglyphs. Most of the texts are monumental stone inscriptions, though some letters and accounting documents have been preserved inscribed on strips of lead. (See Figure 1.)



Figure 1. Anatolia, showing where the Luwian, Hittite, Urartian, and Hurrian languages were spoken.

2. Structure. Anatolian Hieroglyphs have both syllabic and logographic components. Words may be represented entirely with logographs (in particular at the earlier period), or with phonetic complements along with the logogram in a variety of configurations. For the word *wawis* ‘cow’ for instance, the following spellings occur:

BOS

(BOS)wa/i-wa/i-sa

wa/i-wa/i-sa

BOS-wa/i-sa

Characters may be written left-to-right or right-to-left, and texts longer than two lines are mostly boustrophedon; as with Egyptian, one reads a line into the faces of the people and animals. Lines are often divided from one another by horizontal rules. Within a line, characters are written in vertical columns, mostly from top to bottom, though for aesthetic reasons they may be placed out of phonetic or logical order. For modern lexicographical use it is anticipated that straightforward linear left-to-right placement of characters will find the most favour for its practicality. (See Figure 1.)

3. Punctuation and spacing. In some texts, word division is indicated with the use of U+145B5 ⠃ ANATOLIAN HIEROGLYPH A386 or its variant U+145B6 ⠄ ANATOLIAN HIEROGLYPH A386A. To mark logograms, the characters U+145CE ⠌ ANATOLIAN HIEROGLYPH A410 BEGIN LOGOGRAM MARK and U+145CF ⠋ ANATOLIAN HIEROGLYPH A410A END LOGOGRAM MARK are optionally used, flanking the logogram as in ⠌⠋⠄ ‘wood’; see Figure 2. (In Marazzi and Laroche A410 is given as a single character but it has been split into two in order to permit the two characters to flank logograms productively.) The characters U+145F7 ⠊ ANATOLIAN HIEROGLYPH A450 (which occurs very frequently) and U+144EF ⠉ ANATOLIAN HIEROGLYPH A209 (which occurs much more rarely) are occasionally used in what looks like a “space-filler” function, often at the end of a word. Often when hieroglyphs are written, the practice is to try to reproduce the layout of the original text, rather than to write text out in modern sentences. However, in such cases, U+200B ZERO-WIDTH SPACE and/or U+0020 SPACE may be used as needed. One combining character is used, namely, U+145B1 ⠈\ ANATOLIAN HIEROGLYPH COMBINING MARK A383 which attaches fairly productively to Anatolian characters (it always touches its base character). A similar character, U+145B2 ⠉\ ANATOLIAN HIEROGLYPH A383A is used as a personal determinative; it is a spacing character.

4. Repertoire. The repertoire in this proposal differs from that of N4264 in that it adds 22 characters, which are highlighted in yellow in the code chart below. Through the course of the history of the decipherment of Anatolian Hieroglyphs, a standardized catalogue of letters has been drawn up; the “Laroche set” of numbers 1–497 from Laroche 1960 form the basis for the repertoire, supplemented by additions 501–524 from Hawkins and Çambel 2000. The encoding proposed here is based on this standardized catalogue, despite the fact that several of the characters are now considered to be variants of each other. U+144D2 ⠎ A183 is now known to be a variant of U+145DC ⠎ A423 which has a reading *ku*; U+1458D ⠎ A352, U+1458E ⠎ A353, U+1458F ⠎ A354, and (possibly) U+1463B ⠎ A519 are all variants of U+14586 ⠎ A345 (a pitcher). Although this might *seem* to be “character duplication”, really it is not. The encoding of these characters will enable not only the representation of text in the Luwian language, but also the representation of the long history of Anatolian studies, where the catalogue entities have been distinguished in discussions of the decipherment. Scholars wishing to publish normalized texts will certainly wish to avoid the use of the “redundant” characters, or might choose to use them as indicative of the temporal or geographical provenance of a text. But documents relating to the decipherment itself distinguish them regularly, and that distinction must be maintained. The names list contains cross references from variants to the main character in each instance. This is considered vital information by specialists.

The characters and glyphs in this proposal largely reflect those found in Marazzi 1998, with some additions from Hawkins and Çambel 2000 (particularly pp. 617–623), and Herbordt 2005 (pp. 399–425). When a glyph was not included in Marazzi (such as *11), the shape is usually taken from Laroche (as U+1440B ⠎ ANATOLIAN HIEROGLYPH A011). Some glyphs are amalgams of various sources, particularly where there are strong similarities between characters. A few characters may have different shape when used in its syllabic value (which often appears with a simplified glyph) *vis à vis* its logographic value. These have been encoded separately, given the semantic distinction, in “monumental” and a “cursive” forms:

U+1442B		A041	U+1442C		A041A
U+14448		A066	U+14449		A066A
U+1446F		A100	U+14470		A100A
U+14476		A104	U+14477		A104A
U+1447A		A105	U+1447B		A105A
U+1447E		A107	U+1447F		A107A
U+14484		A110	U+14485		A110A.
U+144F6		A215	U+144F7		A215A
U+1457A		A336	U+1457A		A336A

A few characters are considered separate text elements in Marazzi, but were not assigned separate catalog numbers by Laroche. These have nevertheless been separately proposed for encoding and are distinguished usually by an “A” or “B” after the first element’s character number. For example, U+145F8 ḫ ANATOLIAN HIEROGLYPH A450A represents *a+ra/i* or *ra+a* and is composed of U+145F7 ḫ ANATOLIAN HIEROGLYPH A450 (a) + U+145B1 ○\ ANATOLIAN HIEROGLYPH A383. This is an extremely productive combining character which never stands alone, but which always joins to its base character, either following it or being attached below it. (Depending on the directionality of a line of text, “following it” may appear to be either on the left side (RTL) or the right side (LTR); see Figures 2, 6, and 7.) Since the encoding for Anatolian Hieroglyphs is based on the Larochian catalogue, and since three of its characters are formed of a base character plus the combining *ra/i*, canonical decompositions have been given in order to prevent multiple spellings:

U+144F0 ḫ A209A =	U+144EF ḫ A209	+ U+145B1 ○\ A383 COMBINING RA OR RI
U+145B9 Ⅲ- A389 =	U+145B8 Ⅲ A388 THREE	+ U+145B1 ○\ A383 COMBINING RA OR RI
U+145F8 ḫ A450a =	U+145F7 ḫ A450	+ U+145B1 ○\ A383 COMBINING RA OR RI

U+1457C ḩ ANATOLIAN HIEROGLYPH A336B (deriving from ḫ A378 + ḫ A336) is an example of a complex character without a decomposition.

5. Character names. The character names for Anatolian hieroglyphs are somewhat complex. A single coherent set of character names does not exist, but it has been possible to devise one in working out this proposal.

5.1 The name of the script. As suggested in the introduction above, the names “Anatolian Hieroglyphs”, “Luwian Hieroglyphs”, and “Luvian Hieroglyphs” might be applied to this script; the name “Hieroglyphic Hittite” is a misnomer for the language, and “Hieroglyphic Luwian” refers to a variety of the Luwian language (as opposed to “Cuneiform Luwian”). Since the script is used for languages other than Luwian, and since that language may be spelled “Luwian” or “Luvian”, specialists have suggested that the name “Anatolian Hieroglyphs” is the best choice, even if this is clearly a syllabic system and “hieroglyphic” has often been used for a pictorial/logographic system.

5.2 The use of catalogue numbers. Catalogue numbers were assigned by Meriggi and Güterbock but these were superseded by the numbers 1 to 497 which Laroche assigned and published in 1960 in *Les hiéroglyphes hittites*. The Laroche numbers have been taken as standard by subsequent researchers; Hawkins and Çambel 2000 augment this list with their numbers 501 to 523 and additional characters are listed in Herbordt 2005. In a number of instances, Laroche lists variants within a given catalogue number, thus: Laroche ḫ 457 (1) is distinguished from Laroche ḫ 457 (2). The naming convention followed here for this is similar to that used by Egyptologists for Egyptian characters: the first is Laroche 457, the second Laroche 457A. (Not all of the variants listed in Laroche 1960 are distinguished in this way; Laroche 𩦠 460 (1) and 𩦠 460 (2) are simply glyph variants and only a single 460 is proposed for encoding.) There is one exception: the set Anatolian Hieroglyphs U+14574 𩦠 A332A, U+14575 𩦡 A332B, and U+14576 𩦢 A332C maintain the names with “A”, “B” and “C” without any character named Anatolian Hieroglyph *A332, because Marazzi had already identified with the names 332A, 332B, and 332C, and changing the pattern for *332 could be confusing to users.

5.2.1 Recommendations for expansion. For future expansion based on newly-discovered characters, Anatolianists have two options: If the character is clearly based on an existing character, its catalogue number could be based on that. If the complete body of a horse were found, for instance, it could be given a catalogue number based on U+1446E 𩦠 A099, such as *99a. Other new signs could be added in the 500 series. It can be recommended that in scholarly publications the A- numbers be used for encoded

characters, and L- or H- or *- numbers be used in publications for new discoveries which have not been standardized in the UCS.

5.3 Annotations. Scholars traditionally use Latin names to describe the characters, and in some of them the Latin is supplemented with full stops and plus signs in order to assist identification. The full stop indicates a group in which the elements are separate (as in A107B BOS.MI) and the plus sign indicates that the elements form a graphic unit (as in A107 BOS+MI). Informative notes in the names list present these Latin glosses. In addition, characters may have one or more phonetic readings, so the readings are also presented in the notes. Though Latin names are capitalized and/or italicized in the handbooks, lowercase is maintained due to naming conventions for the annotations. The subscript “x” is identified in the annotations as “-x”, as in the annotation “= syllabic ha-x” for U+14561 ANATOLIAN HIEROGLYPH A314.

Some annotations list the character elements used in its graphic appearance. These annotations appear in the handbooks (Marazzi, CHLI and Herbordt). For example, U+1452D ANATOLIAN HIEROGLYPH A267 is identified as the Latin logogram STELE, but is actually composed of A267A+A268 + LAVIS+SCALPRUM (the plus indicates the two are graphically joined). Both STELE and LAVIS+SCALPRUM are included in the annotation. Some characters may just contain the elements that appear graphically, as in the character U+1451C ANATOLIAN HIEROGLYPH A250, which is annotated “MAGNUS.DOMUS”, indicating it is composed of two logograms (A363.A247 .A247 with the full stop indicating the two elements are not graphically joined), or a logogram with a syllabogram (U+14505 ANATOLIAN HIEROGLYPH A227A, composed of a225+a278 + URBS+li). These characters are not decomposable. No comments were included in the annotations if a particular sign was used only in certain combinations; an example is A300 which is usually preceded by A045 or followed by A488. This is a matter of orthography and specialists working with Anatolian Hieroglyphs would presumably already know this.

5.4 Cross-references in the names list. The cross references indicate the relationship of variant characters to the main character, such as U+14403 ANATOLIAN HIEROGLYPH A004 → U+144EC ANATOLIAN HIEROGLYPH A207. This kind of annotation provides vital information to the user of the names list, namely, guidance as to the proper character to use for a normalized text, since the variant forms have been deemed obsolete. This is essential information which should be retained in the names list. The cross-reference pattern is that used in Marazzi, which typically provides a cross-reference from an Empire (early) form to the later form, where the values listed (so A320 has a cross-reference to A165, A270 has a cross-reference to A070, etc.).

5.5 Issues with Latin names and phonetic readings in the names list. Earlier drafts of this proposal received criticism regarding the annotations, and their use has been minimized here.

6. Numbers. Further research needs to be done to ensure that a sufficient quantity of Anatolian numbers are encoded to be practical in use. At present numbers for 1, 2, 3, 4, 5, 8, 9, 10, 12, 100, and 1000 have been proposed for encoding.

7. Text processing. For non-linear display of Anatolian Hieroglyphs, the conventions of the Egyptological *Manual de codage* should be sufficient, and indeed it appears that software which can support Egyptian Hieroglyph rendering can also support Anatolian.

8. Glyphs. The fonts used in this proposal were designed by Michael Everson, based on glyphs in Massimiliano Marazzi, *Il Geroglifico Anatolico* (Napoli 1998) and on glyphs in Emmanuel Laroche, *Les Hiéroglyphes Hittites* (Paris 1960) and in Suzanne Herbordt, *Die Prinzen- und Beamtenstiegel der*

hethitischen Grossreichszeit auf Tonbullen (Mainz am Rhein 2005). In the charts, as in the source tables, no particular distinction has been made in the glyphs between relief style and incised style.

9. Future expansion. The majority of the attested Anatolian Hieroglyphic characters are proposed in this document. It is certainly possible that new characters will come to light, and can be added in due course. Eighty-three unassigned code positions are allocated at the end of the block against such additions.

10. Unicode Character Properties

14612;ANATOLIAN HIEROGLYPH A475;Lo;0;L;;;;;N;;;;;	1462D;ANATOLIAN HIEROGLYPH A505;Lo;0;L;;;;;N;;;;;
14613;ANATOLIAN HIEROGLYPH A476;Lo;0;L;;;;;N;;;;;	1462E;ANATOLIAN HIEROGLYPH A506;Lo;0;L;;;;;N;;;;;
14614;ANATOLIAN HIEROGLYPH A477;Lo;0;L;;;;;N;;;;;	1462F;ANATOLIAN HIEROGLYPH A507;Lo;0;L;;;;;N;;;;;
14615;ANATOLIAN HIEROGLYPH A478;Lo;0;L;;;;;N;;;;;	14630;ANATOLIAN HIEROGLYPH A508;Lo;0;L;;;;;N;;;;;
14616;ANATOLIAN HIEROGLYPH A479;Lo;0;L;;;;;N;;;;;	14631;ANATOLIAN HIEROGLYPH A509;Lo;0;L;;;;;N;;;;;
14617;ANATOLIAN HIEROGLYPH A480;Lo;0;L;;;;;N;;;;;	14632;ANATOLIAN HIEROGLYPH A510;Lo;0;L;;;;;N;;;;;
14618;ANATOLIAN HIEROGLYPH A481;Lo;0;L;;;;;N;;;;;	14633;ANATOLIAN HIEROGLYPH A511;Lo;0;L;;;;;N;;;;;
14619;ANATOLIAN HIEROGLYPH A482;Lo;0;L;;;;;N;;;;;	14634;ANATOLIAN HIEROGLYPH A512;Lo;0;L;;;;;N;;;;;
1461A;ANATOLIAN HIEROGLYPH A483;Lo;0;L;;;;;N;;;;;	14635;ANATOLIAN HIEROGLYPH A513;Lo;0;L;;;;;N;;;;;
1461B;ANATOLIAN HIEROGLYPH A484;Lo;0;L;;;;;N;;;;;	14636;ANATOLIAN HIEROGLYPH A514;Lo;0;L;;;;;N;;;;;
1461C;ANATOLIAN HIEROGLYPH A485;Lo;0;L;;;;;N;;;;;	14637;ANATOLIAN HIEROGLYPH A515;Lo;0;L;;;;;N;;;;;
1461D;ANATOLIAN HIEROGLYPH A486;Lo;0;L;;;;;N;;;;;	14638;ANATOLIAN HIEROGLYPH A516;Lo;0;L;;;;;N;;;;;
1461E;ANATOLIAN HIEROGLYPH A487;Lo;0;L;;;;;N;;;;;	14639;ANATOLIAN HIEROGLYPH A517;Lo;0;L;;;;;N;;;;;
1461F;ANATOLIAN HIEROGLYPH A488;Lo;0;L;;;;;N;;;;;	1463A;ANATOLIAN HIEROGLYPH A518;Lo;0;L;;;;;N;;;;;
14620;ANATOLIAN HIEROGLYPH A489;Lo;0;L;;;;;N;;;;;	1463B;ANATOLIAN HIEROGLYPH A519;Lo;0;L;;;;;N;;;;;
14621;ANATOLIAN HIEROGLYPH A490;Lo;0;L;;;;;N;;;;;	1463C;ANATOLIAN HIEROGLYPH A520;Lo;0;L;;;;;N;;;;;
14622;ANATOLIAN HIEROGLYPH A491;Lo;0;L;;;;;N;;;;;	1463D;ANATOLIAN HIEROGLYPH A521;Lo;0;L;;;;;N;;;;;
14623;ANATOLIAN HIEROGLYPH A492;Lo;0;L;;;;;N;;;;;	1463E;ANATOLIAN HIEROGLYPH A522;Lo;0;L;;;;;N;;;;;
14624;ANATOLIAN HIEROGLYPH A493;Lo;0;L;;;;;N;;;;;	1463F;ANATOLIAN HIEROGLYPH A523;Lo;0;L;;;;;N;;;;;
14625;ANATOLIAN HIEROGLYPH A494;Lo;0;L;;;;;N;;;;;	14640;ANATOLIAN HIEROGLYPH A524;Lo;0;L;;;;;N;;;;;
14626;ANATOLIAN HIEROGLYPH A495;Lo;0;L;;;;;N;;;;;	14641;ANATOLIAN HIEROGLYPH A525;Lo;0;L;;;;;N;;;;;
14627;ANATOLIAN HIEROGLYPH A496;Lo;0;L;;;;;N;;;;;	14642;ANATOLIAN HIEROGLYPH A526;Lo;0;L;;;;;N;;;;;
14628;ANATOLIAN HIEROGLYPH A497;Lo;0;L;;;;;N;;;;;	14643;ANATOLIAN HIEROGLYPH A527;Lo;0;L;;;;;N;;;;;
14629;ANATOLIAN HIEROGLYPH A501;Lo;0;L;;;;;N;;;;;	14644;ANATOLIAN HIEROGLYPH A528;Lo;0;L;;;;;N;;;;;
1462A;ANATOLIAN HIEROGLYPH A502;Lo;0;L;;;;;N;;;;;	14645;ANATOLIAN HIEROGLYPH A529;Lo;0;L;;;;;N;;;;;
1462B;ANATOLIAN HIEROGLYPH A503;Lo;0;L;;;;;N;;;;;	14646;ANATOLIAN HIEROGLYPH A530;Lo;0;L;;;;;N;;;;;
1462C;ANATOLIAN HIEROGLYPH A504;Lo;0;L;;;;;N;;;;;	

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	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	144A	144B	144C	144D
0														
14400	14400	14410	14420	14430	14440	14450	14460	14470	14480	14490	144A0	144B0	144C0	144D0
1														
14401	14401	14411	14421	14431	14441	14451	14461	14471	14481	14491	144A1	144B1	144C1	144D1
2														
14402	14402	14412	14422	14432	14442	14452	14462	14472	14482	14492	144A2	144B2	144C2	144D2
3														
14403	14403	14413	14423	14433	14443	14453	14463	14473	14483	14493	144A3	144B3	144C3	144D3
4														
14404	14404	14414	14424	14434	14444	14454	14464	14474	14484	14494	144A4	144B4	144C4	144D4
5														
14405	14405	14415	14425	14435	14445	14455	14465	14475	14485	14495	144A5	144B5	144C5	144D5
6														
14406	14406	14416	14426	14436	14446	14456	14466	14476	14486	14496	144A6	144B6	144C6	144D6
7														
14407	14407	14417	14427	14437	14447	14457	14467	14477	14487	14497	144A7	144B7	144C7	144D7
8														
14408	14408	14418	14428	14438	14448	14458	14468	14478	14488	14498	144A8	144B8	144C8	144D8
9														
14409	14409	14419	14429	14439	14449	14459	14469	14479	14489	14499	144A9	144B9	144C9	144D9
A														
1440A	1440A	1441A	1442A	1443A	1444A	1445A	1446A	1447A	1448A	1449A	144AA	144BA	144CA	144DA
B														
1440B	1440B	1441B	1442B	1443B	1444B	1445B	1446B	1447B	1448B	1449B	144AB	144BB	144CB	144DB
C														
1440C	1440C	1441C	1442C	1443C	1444C	1445C	1446C	1447C	1448C	1449C	144AC	144BC	144CC	144DC
D														
1440D	1440D	1441D	1442D	1443D	1444D	1445D	1446D	1447D	1448D	1449D	144AD	144BD	144CD	144DD
E														
1440E	1440E	1441E	1442E	1443E	1444E	1445E	1446E	1447E	1448E	1449E	144AE	144BE	144CE	144DE
F														
1440F	1440F	1441F	1442F	1443F	1444F	1445F	1446F	1447F	1448F	1449F	144AF	144BF	144CF	144DF

	144E	144F	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	145A
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
A													
B													
C													
D													
E													
F													

	145B	145C	145D	145E	145F	1460	1461	1462	1463	1464	1465	1466	1467
0	145B0	145C0	145D0	145E0	145F0	14600	14610	14620	14630	14640			
1	145B1	—	145D1	145E1	145F1	14601	14611	14621	14631	14641			
2	145B2	—	145D2	145E2	145F2	14602	14612	14622	14632	14642			
3	145B3	145C3	145D3	145E3	145F3	14603	14613	14623	14633	14643			
4	145B4	145C4	145D4	145E4	145F4	14604	14614	14624	14634	14644			
5	145B5	145C5	145D5	145E5	145F5	14605	14615	14625	14635	14645			
6	145B6	145C6	145D6	145E6	145F6	14606	14616	14626	14636	14646			
7	145B7	145C7	145D7	145E7	145F7	14607	14617	14627	14637				
8	145B8	145C8	145D8	145E8	145F8	14608	14618	14628	14638				
9	145B9	145C9	145D9	145E9	145F9	14609	14619	14629	14639				
A	145BA	145CA	145DA	145EA	145FA	1460A	1461A	1462A	1463A				
B	145BB	145CB	145DB	145EB	145FB	1460B	1461B	1462B	1463B				
C	145BC	145CC	145DC	145EC	145FC	1460C	1461C	1462C	1463C				
D	145BD	145CD	145DD	145ED	145FD	1460D	1461D	1462D	1463D				
E	145BE	145CE	145DE	145EE	145FE	1460E	1461E	1462E	1463E				
F	145BF	145CF	145DF	145EF	145FF	1460F	1461F	1462F	1463F				

In the names list, most of the comments are in Latin. Those which have a Luwian phonetic value are identified as syllabic. Cross references point from a variant character to the main character which should be used in normalized texts.

A. The human body and clothing

- 14400 ⚡ ANATOLIAN HIEROGLYPH A001
= ego
- 14401 ⚢ ANATOLIAN HIEROGLYPH A002
= ego²
→ 14400 ⚡ anatolian hieroglyph a001
- 14402 ⚤ ANATOLIAN HIEROGLYPH A003
- 14403 ⚥ ANATOLIAN HIEROGLYPH A004
= mons²
→ 144EC ⚪ anatolian hieroglyph a207
- 14404 ⚦ ANATOLIAN HIEROGLYPH A005
- 14405 ⚧ ANATOLIAN HIEROGLYPH A006
= adorare
- 14406 ⚨ ANATOLIAN HIEROGLYPH A007
= edere
- 14407 ⚩ ANATOLIAN HIEROGLYPH A008
= bibere
- 14408 ⚪ ANATOLIAN HIEROGLYPH A009
= amplexi
- 14409 ⚫ ANATOLIAN HIEROGLYPH A010
= caput
- 1440A ⚱ ANATOLIAN HIEROGLYPH A010A
= caput+scalprum
- 1440B ⚲ ANATOLIAN HIEROGLYPH A011
- 1440C ⚳ ANATOLIAN HIEROGLYPH A012
= statua
- 1440D ⚴ ANATOLIAN HIEROGLYPH A013
→ 1440E ⚵ anatolian hieroglyph a014
- 1440E ⚶ ANATOLIAN HIEROGLYPH A014
= prae
= logosyllabic pari
- 1440F ⚷ ANATOLIAN HIEROGLYPH A015
= domina
- 14410 ⚸ ANATOLIAN HIEROGLYPH A016
= magnus.domina
- 14411 ⚹ ANATOLIAN HIEROGLYPH A017
= rex
- 14412 ⚺ ANATOLIAN HIEROGLYPH A018
= magnus.rex
- 14413 ⚻ ANATOLIAN HIEROGLYPH A019
= syllabic á
- 14414 ⚼ ANATOLIAN HIEROGLYPH A020
→ 14413 ⚻ anatolian hieroglyph a019
→ 145AB ⚽ anatolian hieroglyph a378
- 14415 ⚾ ANATOLIAN HIEROGLYPH A021
= heros
- 14416 ⚿ ANATOLIAN HIEROGLYPH A022
= loqui
- 14417 ⚿ ANATOLIAN HIEROGLYPH A023
- 14418 ⚿ ANATOLIAN HIEROGLYPH A024
= lis
- 14419 ⚿ ANATOLIAN HIEROGLYPH A025
= oculus
- 1441A ⚿ ANATOLIAN HIEROGLYPH A026
= frons

- 1441B ⚑ ANATOLIAN HIEROGLYPH A026A
= versus
- 1441C ⚒ ANATOLIAN HIEROGLYPH A027
= libare
- 1441D ⚓ ANATOLIAN HIEROGLYPH A028
= fortis
- 1441E ⚔ ANATOLIAN HIEROGLYPH A029
= syllabic tá
- 1441F ⚕ ANATOLIAN HIEROGLYPH A030
- 14420 ⚖ ANATOLIAN HIEROGLYPH A031
= ligare, pugnus+pugnus
- 14421 ⚗ ANATOLIAN HIEROGLYPH A032
= bracchium
- 14422 ⚘ ANATOLIAN HIEROGLYPH A033
- 14423 ⚙ ANATOLIAN HIEROGLYPH A034
= post
- 14424 ⚚ ANATOLIAN HIEROGLYPH A035
= syllabic na
- 14425 ⚛ ANATOLIAN HIEROGLYPH A036
= lituus+na
- 14426 ⚜ ANATOLIAN HIEROGLYPH A037
- 14427 ⚝ ANATOLIAN HIEROGLYPH A038
- 14428 ⚞ ANATOLIAN HIEROGLYPH A039
= pugnus
- 14429 ⚟ ANATOLIAN HIEROGLYPH A039A
= pugnus+x
- 1442A ⚠ ANATOLIAN HIEROGLYPH A040
→ 14428 ⚞ anatolian hieroglyph a039
- 1442B ⚡ ANATOLIAN HIEROGLYPH A041
= capere
= syllabic tà
- 1442C ⚢ ANATOLIAN HIEROGLYPH A041A
= syllabic tà
- 1442D ⚣ ANATOLIAN HIEROGLYPH A042
= capere2.capere2
= syllabic ta-x?
- 1442E ⚤ ANATOLIAN HIEROGLYPH A043
= capere2
- 1442F ⚥ ANATOLIAN HIEROGLYPH A044
→ 14427 ⚝ anatolian hieroglyph a038
→ 14441 ⚞ anatolian hieroglyph a059
- 14430 ⚦ ANATOLIAN HIEROGLYPH A045
= infans, filius, frater
- 14431 ⚧ ANATOLIAN HIEROGLYPH A045A
= filia
- 14432 ⚨ ANATOLIAN HIEROGLYPH A046
= rex.infans, rex.filius
- 14433 ⚩ ANATOLIAN HIEROGLYPH A046A
= rex.filia
- 14434 ⚪ ANATOLIAN HIEROGLYPH A046B
= magnus.filia
- 14435 ⚪ ANATOLIAN HIEROGLYPH A047
- 14436 ⚭ ANATOLIAN HIEROGLYPH A048
→ 1441E ⚔ anatolian hieroglyph a029
- 14437 ⚮ ANATOLIAN HIEROGLYPH A049
= syllabic a+tá
- 14438 ⚯ ANATOLIAN HIEROGLYPH A050
- 14439 ⚯ ANATOLIAN HIEROGLYPH A051
→ 1441E ⚔ anatolian hieroglyph a029
- 1443A ⚰ ANATOLIAN HIEROGLYPH A052
= manus.culter

1443B	ፊ	ANATOLIAN HIEROGLYPH A053 = manus+culter, ensis
1443C	❖	ANATOLIAN HIEROGLYPH A054
1443D	❖	ANATOLIAN HIEROGLYPH A055 = syllabic n̄i
1443E	❖	ANATOLIAN HIEROGLYPH A056 = syllabic k̄á → 1443F ❖ anatolian hieroglyph a057
1443F	❖	ANATOLIAN HIEROGLYPH A057 = infra, sub = syllabic k̄á
14440	❖	ANATOLIAN HIEROGLYPH A058 = cum
14441	❖	ANATOLIAN HIEROGLYPH A059 = manus
14442	❖	ANATOLIAN HIEROGLYPH A060 → 14441 ❖ anatolian hieroglyph a059
14443	❖	ANATOLIAN HIEROGLYPH A061
14444	❖	ANATOLIAN HIEROGLYPH A062 = longus, manus+minus?
14445	❖	ANATOLIAN HIEROGLYPH A063 → 14441 ❖ anatolian hieroglyph a059
14446	❖	ANATOLIAN HIEROGLYPH A064 → 14441 ❖ anatolian hieroglyph a059
14447	❖	ANATOLIAN HIEROGLYPH A065 = ponere
14448	❖	ANATOLIAN HIEROGLYPH A066 = dare = syllabic pi
14449	❖	ANATOLIAN HIEROGLYPH A066A = syllabic pi
1444A	❖	ANATOLIAN HIEROGLYPH A066B = mandare, dare.dare
1444B	❖	ANATOLIAN HIEROGLYPH A066C = mandare2
1444C	❖	ANATOLIAN HIEROGLYPH A067
1444D	❖	ANATOLIAN HIEROGLYPH A068 → 14444 ❖ anatolian hieroglyph a062
1444E	❖	ANATOLIAN HIEROGLYPH A069 → 14441 ❖ anatolian hieroglyph a059
1444F	❖	ANATOLIAN HIEROGLYPH A070 = super = logosyllabic sara/i
14450	❖	ANATOLIAN HIEROGLYPH A071
14451	❖	ANATOLIAN HIEROGLYPH A072
14452	❖	ANATOLIAN HIEROGLYPH A073 = audire, auris+tu+mi
14453	❖	ANATOLIAN HIEROGLYPH A074
14454	❖	ANATOLIAN HIEROGLYPH A075
14455	❖	ANATOLIAN HIEROGLYPH A076 → 144FE ❖ anatolian hieroglyph a221
14456	❖	ANATOLIAN HIEROGLYPH A077
14457	❖	ANATOLIAN HIEROGLYPH A078 = ala
14458	❖	ANATOLIAN HIEROGLYPH A079 = femina, mater
14459	❖	ANATOLIAN HIEROGLYPH A080 = Sarma
1445A	❖	ANATOLIAN HIEROGLYPH A081 = Sarma2

1445B	❖	ANATOLIAN HIEROGLYPH A082 = crus
		= syllabic ta6
1445C	❖	ANATOLIAN HIEROGLYPH A083 = crus+flumen
1445D	❖	ANATOLIAN HIEROGLYPH A084 = crus2
		= syllabic n̄a
1445E	❖	ANATOLIAN HIEROGLYPH A085 = genuflectere
1445F	❖	ANATOLIAN HIEROGLYPH A086 = crus.crus
14460	❖	ANATOLIAN HIEROGLYPH A087 → 1445F ❖ anatolian hieroglyph a086
14461	❖	ANATOLIAN HIEROGLYPH A088 → 14462 ❖ anatolian hieroglyph a089
14462	❖	ANATOLIAN HIEROGLYPH A089 = syllabic tu
14463	❖	ANATOLIAN HIEROGLYPH A090 = pes
		= syllabic ti
14464	❖	ANATOLIAN HIEROGLYPH A091 = pes.scala.rotae
14465	❖	ANATOLIAN HIEROGLYPH A092 → 14464 ❖ anatolian hieroglyph a091
14466	❖	ANATOLIAN HIEROGLYPH A093 = pes2
14467	❖	ANATOLIAN HIEROGLYPH A094 → 14464 ❖ anatolian hieroglyph a091
14468	❖	ANATOLIAN HIEROGLYPH A095 = pes2,pes2
14469	❖	ANATOLIAN HIEROGLYPH A096 = pes2.pes

B. Animals

1446A	❖	ANATOLIAN HIEROGLYPH A097 = leo, bestia
1446B	❖	ANATOLIAN HIEROGLYPH A097A = leo2 → 1446A ❖ anatolian hieroglyph a097
1446C	❖	ANATOLIAN HIEROGLYPH A098 = canis
1446D	❖	ANATOLIAN HIEROGLYPH A098A = canis2 → 1446C ❖ anatolian hieroglyph a098
1446E	❖	ANATOLIAN HIEROGLYPH A099 = equus
1446F	❖	ANATOLIAN HIEROGLYPH A100 = asinus
		= syllabic ta
14470	❖	ANATOLIAN HIEROGLYPH A100A = syllabic ta
14471	❖	ANATOLIAN HIEROGLYPH A101 = asinus2
14472	❖	ANATOLIAN HIEROGLYPH A101A = asinus2a
14473	❖	ANATOLIAN HIEROGLYPH A102 = cervus
		= syllabic r̄ú

14474		ANATOLIAN HIEROGLYPH A102A = cervus2 = syllabic rú → 14473	14487		ANATOLIAN HIEROGLYPH A111 = ovis3
14475		ANATOLIAN HIEROGLYPH A103 = cervus3 = syllabic rú	14488		ANATOLIAN HIEROGLYPH A112 = lingere = syllabic za4
14476		ANATOLIAN HIEROGLYPH A104 = capra = syllabic sà	14489		ANATOLIAN HIEROGLYPH A113 → 1441A
14477		ANATOLIAN HIEROGLYPH A104A = syllabic sà	1448A		ANATOLIAN HIEROGLYPH A114 = lituus+u
14478		ANATOLIAN HIEROGLYPH A104B = capra2 = syllabic sà → 14476	1448B		ANATOLIAN HIEROGLYPH A115 = lepus = logosyllabic tapa
14479		ANATOLIAN HIEROGLYPH A104C = capra2a = syllabic sà → 14476	1448C		ANATOLIAN HIEROGLYPH A115A = lepus2 = logosyllabic tapa → 1448B
1447A		ANATOLIAN HIEROGLYPH A105 = bos = syllabic u	1448D		ANATOLIAN HIEROGLYPH A116 → 1446F
1447B		ANATOLIAN HIEROGLYPH A105A = bos = syllabic u	1448E		ANATOLIAN HIEROGLYPH A117
1447C		ANATOLIAN HIEROGLYPH A105B = bos2 = syllabic u → 1447A	1448F		ANATOLIAN HIEROGLYPH A118
1447D		ANATOLIAN HIEROGLYPH A106	14490		ANATOLIAN HIEROGLYPH A119 → 14518
1447E		ANATOLIAN HIEROGLYPH A107 = bos+mi = syllabic mu = logosyllabic muwa	14491		ANATOLIAN HIEROGLYPH A120 = gryllus
1447F		ANATOLIAN HIEROGLYPH A107A = syllabic mu = logosyllabic muwa	14492		ANATOLIAN HIEROGLYPH A121 = sphinx
14480		ANATOLIAN HIEROGLYPH A107B = bos.mi = syllabic mu = logosyllabic muwa → 1447E	14493		ANATOLIAN HIEROGLYPH A122
14481		ANATOLIAN HIEROGLYPH A107C = bos2.mi = syllabic mu = logosyllabic muwa → 1447E	14494		ANATOLIAN HIEROGLYPH A123
14482		ANATOLIAN HIEROGLYPH A108 = cornu = sú	14495		ANATOLIAN HIEROGLYPH A124 → 1448C
14483		ANATOLIAN HIEROGLYPH A109 = vitellus = syllabic ma-x	14496		ANATOLIAN HIEROGLYPH A125 = ungula = syllabic li-x
14484		ANATOLIAN HIEROGLYPH A110 = ovis = syllabic ma	14498		ANATOLIAN HIEROGLYPH A126 → 14496
14485		ANATOLIAN HIEROGLYPH A110A = syllabic ma	14499		ANATOLIAN HIEROGLYPH A127
14486		ANATOLIAN HIEROGLYPH A110B = ovis2 = syllabic ma	1449A		ANATOLIAN HIEROGLYPH A128 = avis = zi4
			1449B		ANATOLIAN HIEROGLYPH A129
			1449C		ANATOLIAN HIEROGLYPH A130 = avis3
			1449D		ANATOLIAN HIEROGLYPH A131 = avis5
			1449E		ANATOLIAN HIEROGLYPH A132 = avis2
			1449F		ANATOLIAN HIEROGLYPH A133 = aquila, avis4 = syllabic ara/i
			144A0		ANATOLIAN HIEROGLYPH A134 = syllabic ara/i → 1449F
			144A1		ANATOLIAN HIEROGLYPH A135 = avis-x
			144A2		ANATOLIAN HIEROGLYPH A135A
			144A3		ANATOLIAN HIEROGLYPH A136 → 1442E
			144A4		ANATOLIAN HIEROGLYPH A137 = libatio

- 144A5 ANATOLIAN HIEROGLYPH A138
= piscis
144A6 ANATOLIAN HIEROGLYPH A139
144A7 ANATOLIAN HIEROGLYPH A140
144A8 ANATOLIAN HIEROGLYPH A141
144A9 ANATOLIAN HIEROGLYPH A142
144AA ANATOLIAN HIEROGLYPH A143
→ 144F5 anatolian hieroglyph a214
144AB ANATOLIAN HIEROGLYPH A144
144AC ANATOLIAN HIEROGLYPH A145
144AD ANATOLIAN HIEROGLYPH A146
144AE ANATOLIAN HIEROGLYPH A147
144AF ANATOLIAN HIEROGLYPH A148
= Janus

C. Plants

- 144B0 ANATOLIAN HIEROGLYPH A149
144B1 ANATOLIAN HIEROGLYPH A150
144B2 ANATOLIAN HIEROGLYPH A151
= Telipinu
144B3 ANATOLIAN HIEROGLYPH A152
144B4 ANATOLIAN HIEROGLYPH A153
= syllabic nu
144B5 ANATOLIAN HIEROGLYPH A154
144B6 ANATOLIAN HIEROGLYPH A155
144B7 ANATOLIAN HIEROGLYPH A156
144B8 ANATOLIAN HIEROGLYPH A157
→ 144BB anatolian hieroglyph a160
→ 144EF anatolian hieroglyph a209
→ 14599 anatolian hieroglyph a363
144B9 ANATOLIAN HIEROGLYPH A158
144BA ANATOLIAN HIEROGLYPH A159
144BB ANATOLIAN HIEROGLYPH A160
= vitis
= syllabic wi(ya)
144BC ANATOLIAN HIEROGLYPH A161
144BD ANATOLIAN HIEROGLYPH A162
144BE ANATOLIAN HIEROGLYPH A163
144BF ANATOLIAN HIEROGLYPH A164
144C0 ANATOLIAN HIEROGLYPH A165
= bonus
= syllabic wà/i
144C1 ANATOLIAN HIEROGLYPH A166
= syllabic wá/i
144C2 ANATOLIAN HIEROGLYPH A167
→ 1447E anatolian hieroglyph a107
144C3 ANATOLIAN HIEROGLYPH A168
→ 14570 anatolian hieroglyph a329
144C4 ANATOLIAN HIEROGLYPH A169
→ 145B0 anatolian hieroglyph a382
144C5 ANATOLIAN HIEROGLYPH A170
→ 14452 anatolian hieroglyph a073
144C6 ANATOLIAN HIEROGLYPH A171
144C7 ANATOLIAN HIEROGLYPH A172
= syllabic ta/i5, lá/i
144C8 ANATOLIAN HIEROGLYPH A173
= hastarius
144C9 ANATOLIAN HIEROGLYPH A174
= syllabic si

- 144CA ANATOLIAN HIEROGLYPH A175
= lingua
= syllabic la
144CB ANATOLIAN HIEROGLYPH A176
= syllabic la+la
144CC ANATOLIAN HIEROGLYPH A177
= lingua+clavus
144CD ANATOLIAN HIEROGLYPH A178
= syllabic la+ra+a
144CE ANATOLIAN HIEROGLYPH A179
= hordeum
= syllabic hwi-x
144CF ANATOLIAN HIEROGLYPH A180
144D0 ANATOLIAN HIEROGLYPH A181
= panis
= syllabic pa-x

D. Nature

- 144D1 ANATOLIAN HIEROGLYPH A182
= caelum
144D2 ANATOLIAN HIEROGLYPH A183
→ 145DC anatolian hieroglyph a423
144D3 ANATOLIAN HIEROGLYPH A184
144D4 ANATOLIAN HIEROGLYPH A185
144D5 ANATOLIAN HIEROGLYPH A186
→ 145F2 anatolian hieroglyph a445
144D6 ANATOLIAN HIEROGLYPH A187
144D7 ANATOLIAN HIEROGLYPH A188
144D8 ANATOLIAN HIEROGLYPH A189
144D9 ANATOLIAN HIEROGLYPH A190
= sol2
144DA ANATOLIAN HIEROGLYPH A191
= sol
144DB ANATOLIAN HIEROGLYPH A192
= oriens
144DC ANATOLIAN HIEROGLYPH A193
= luna
144DD ANATOLIAN HIEROGLYPH A194
144DE ANATOLIAN HIEROGLYPH A195
144DF ANATOLIAN HIEROGLYPH A196
= Hatti
= syllabic há
144EO ANATOLIAN HIEROGLYPH A197
= Hatti+li, Hattusili
= logosyllabic há-li
144E1 ANATOLIAN HIEROGLYPH A198
144E2 ANATOLIAN HIEROGLYPH A199
= tonitrus
144E3 ANATOLIAN HIEROGLYPH A200
= fulgor
144E4 ANATOLIAN HIEROGLYPH A201
= terra, locus
= syllabic wa/i6
144E5 ANATOLIAN HIEROGLYPH A202
= via+terra.scalprum
144E6 ANATOLIAN HIEROGLYPH A202A
= via+terra+scalprum
144E7 ANATOLIAN HIEROGLYPH A202B
= (deus)via+terra
144E8 ANATOLIAN HIEROGLYPH A203
144E9 ANATOLIAN HIEROGLYPH A204
= syllabic wa/i5
144EA ANATOLIAN HIEROGLYPH A205

144EB	𒋩	ANATOLIAN HIEROGLYPH A206
144EC	𒋪	ANATOLIAN HIEROGLYPH A207 = mons = syllabic wa/i5
144ED	𒋪	ANATOLIAN HIEROGLYPH A207A = leo+mons.tu+leo
144EE	𒋪	ANATOLIAN HIEROGLYPH A208
144EF	𒋪	ANATOLIAN HIEROGLYPH A209 = syllabic i, i(a)
144F0	𒋪	ANATOLIAN HIEROGLYPH A209A = syllabi i+ra/i, ri+i ≡ 144EF 𒋪 145B1 ◂
144F1	𒋪	ANATOLIAN HIEROGLYPH A210 = syllabic ia
144F2	𒋪	ANATOLIAN HIEROGLYPH A211
144F3	𒋪	ANATOLIAN HIEROGLYPH A212 = flumen
144F4	𒋪	ANATOLIAN HIEROGLYPH A213 → 144F3 𒋪 anatolian hieroglyph a212
144F5	𒋪	ANATOLIAN HIEROGLYPH A214 = syllabic ni
144F6	𒋪	ANATOLIAN HIEROGLYPH A215 = fons
144F7	𒋪	ANATOLIAN HIEROGLYPH A215A = syllabic ha
144F8	𒋪	ANATOLIAN HIEROGLYPH A216 = fines = syllabic arha
144F9	𒋪	ANATOLIAN HIEROGLYPH A216A = fines+ha, arha
144FA	𒋪	ANATOLIAN HIEROGLYPH A217
144FB	𒋪	ANATOLIAN HIEROGLYPH A218
144FC	𒋪	ANATOLIAN HIEROGLYPH A219
144FD	𒋪	ANATOLIAN HIEROGLYPH A220
144FE	𒋪	ANATOLIAN HIEROGLYPH A221 = via
144FF	𒋪	ANATOLIAN HIEROGLYPH A222 → 144FE 𒋪 anatolian hieroglyph a221
14500	𒋪	ANATOLIAN HIEROGLYPH A223 = syllabic sa6
14501	𒋪	ANATOLIAN HIEROGLYPH A224 = syllabic ha? pa?

E. Buildings

14502	𒋩	ANATOLIAN HIEROGLYPH A225 = urbs
14503	𒋩	ANATOLIAN HIEROGLYPH A226 = Ishuwa
14504	𒋩	ANATOLIAN HIEROGLYPH A227 = urbs+ra/i?+li, urbs+ra/i?-li
14505	𒋩	ANATOLIAN HIEROGLYPH A227A = urbs+li, urbs-li, Mursili
14506	𒋩	ANATOLIAN HIEROGLYPH A228 = regio = syllabic tu4
14507	𒋩	ANATOLIAN HIEROGLYPH A229 = syllabic mi.regio
14508	𒋩	ANATOLIAN HIEROGLYPH A230 → 14506 𒋩 anatolian hieroglyph a228
14509	𒋩	ANATOLIAN HIEROGLYPH A231 = castrum

1450A	𒋩	ANATOLIAN HIEROGLYPH A232 → 14509 𒋩 anatolian hieroglyph a231
1450B	𒋩	ANATOLIAN HIEROGLYPH A233 → 14509 𒋩 anatolian hieroglyph a231
1450C	𒋩	ANATOLIAN HIEROGLYPH A234
1450D	𒋩	ANATOLIAN HIEROGLYPH A235 = turris?
1450E	𒋩	ANATOLIAN HIEROGLYPH A236 = murus?
1450F	𒋩	ANATOLIAN HIEROGLYPH A237 = porta
14510	𒋩	ANATOLIAN HIEROGLYPH A238 → 1450F 𒋩 anatolian hieroglyph a237
14511	𒋩	ANATOLIAN HIEROGLYPH A239 = porta2
14512	𒋩	ANATOLIAN HIEROGLYPH A240
14513	𒋩	ANATOLIAN HIEROGLYPH A241 = syllabic ki-x
14514	𒋩	ANATOLIAN HIEROGLYPH A242 → 145E5 𒋩 anatolian hieroglyph a432
14515	𒋩	ANATOLIAN HIEROGLYPH A243 = cubitum
14516	𒋩	ANATOLIAN HIEROGLYPH A244 = aedificium
14517	𒋩	ANATOLIAN HIEROGLYPH A245 = vacuus, aedificium+minus
14518	𒋩	ANATOLIAN HIEROGLYPH A246 = aedificare, aedificium.ponere
14519	𒋩	ANATOLIAN HIEROGLYPH A247 = domus
1451A	𒋩	ANATOLIAN HIEROGLYPH A248 = delere, domus+minus
1451B	𒋩	ANATOLIAN HIEROGLYPH A249 = deus.domus
1451C	𒋩	ANATOLIAN HIEROGLYPH A250 = magnus.domus
1451D	𒋩	ANATOLIAN HIEROGLYPH A251 = domus+x
1451E	𒋩	ANATOLIAN HIEROGLYPH A252 = domus+scala
1451F	𒋩	ANATOLIAN HIEROGLYPH A253 → 1451E 𒋩 anatolian hieroglyph a252
14520	𒋩	ANATOLIAN HIEROGLYPH A254 = eunuchus2 → 14611 𒋩 anatolian hieroglyph a474
14521	𒋩	ANATOLIAN HIEROGLYPH A255 = horreum
14522	𒋩	ANATOLIAN HIEROGLYPH A256 → 14521 𒋩 anatolian hieroglyph a255
14523	𒋩	ANATOLIAN HIEROGLYPH A257 = argentum
14524	□	ANATOLIAN HIEROGLYPH A258 → 14523 ◻ anatolian hieroglyph a257
14525	◻	ANATOLIAN HIEROGLYPH A259
14526	◻	ANATOLIAN HIEROGLYPH A260 → 14523 ◻ anatolian hieroglyph a257
14527	◻	ANATOLIAN HIEROGLYPH A261
14528	◻	ANATOLIAN HIEROGLYPH A262
14529	◻	ANATOLIAN HIEROGLYPH A263
1452A	◻	ANATOLIAN HIEROGLYPH A264 = podium

- 1452B ☧ ANATOLIAN HIEROGLYPH A265
 1452C ☧ ANATOLIAN HIEROGLYPH A266
 = pes.regio
 1452D ☧ ANATOLIAN HIEROGLYPH A267
 = stele, lapis+scalprum
 1452E ☧ ANATOLIAN HIEROGLYPH A267A
 = lapis
 1452F ☧ ANATOLIAN HIEROGLYPH A268
 = scalprum

F. Arms, tools, furniture, and other instruments

- 14530 ☧ ANATOLIAN HIEROGLYPH A269
 = exercitus
 14531 ☧ ANATOLIAN HIEROGLYPH A270
 → 1444F ☧ anatolian hieroglyph a070
 14532 ☧ ANATOLIAN HIEROGLYPH A271
 14533 ☧ ANATOLIAN HIEROGLYPH A272
 = scutum
 14534 ☧ ANATOLIAN HIEROGLYPH A273
 14535 ☧ ANATOLIAN HIEROGLYPH A274
 14536 ☧ ANATOLIAN HIEROGLYPH A275
 14537 ☧ ANATOLIAN HIEROGLYPH A276
 = frater2
 14538 ☧ ANATOLIAN HIEROGLYPH A277
 = iudex.la, iudex+la
 14539 ☧ ANATOLIAN HIEROGLYPH A278
 = syllabic li
 1453A ☧ ANATOLIAN HIEROGLYPH A279
 1453B ☧ ANATOLIAN HIEROGLYPH A280
 = malleus
 = syllabic wa/i9
 1453C ☧ ANATOLIAN HIEROGLYPH A281
 = ascia
 1453D ☧ ANATOLIAN HIEROGLYPH A282
 1453E ☧ ANATOLIAN HIEROGLYPH A283
 = logosyllabic tuzzi
 1453F ☧ ANATOLIAN HIEROGLYPH A284
 → 14540 ☧ anatolian hieroglyph a285
 14540 ☧ ANATOLIAN HIEROGLYPH A285
 = iaculum
 = syllabic zu?
 = logosyllabic zuwa
 14541 ☧ ANATOLIAN HIEROGLYPH A286
 = syllabic wa/i7
 14542 ☧ ANATOLIAN HIEROGLYPH A287
 → 145C3 ☧ anatolian hieroglyph a399
 14543 ☧ ANATOLIAN HIEROGLYPH A288
 = currus
 14544 ☧ ANATOLIAN HIEROGLYPH A289
 = auriga
 14545 ☧ ANATOLIAN HIEROGLYPH A289A
 = auriga2
 14546 ☧ ANATOLIAN HIEROGLYPH A290
 = syllabic hara/i
 14547 ☧ ANATOLIAN HIEROGLYPH A291
 = syllabic li
 14548 ☧ ANATOLIAN HIEROGLYPH A292
 = rota
 = logosyllabic hala/i
 14549 ☧ ANATOLIAN HIEROGLYPH A293

- 1454A ☧ ANATOLIAN HIEROGLYPH A294
 = thronus, mensa
 1454B ☧ ANATOLIAN HIEROGLYPH A294A
 = thronus, mensa2
 = Sarpa
 1454C ☧ ANATOLIAN HIEROGLYPH A295
 = sol2.thronus/mensa
 1454D ☧ ANATOLIAN HIEROGLYPH A296
 = (deus)mons.Sarpa, (deus)mons.mensa
 = thronus
 1454E ☧ ANATOLIAN HIEROGLYPH A297
 → 1454D ☧ anatolian hieroglyph a296
 1454F ☧ ANATOLIAN HIEROGLYPH A298
 = thronus2
 14550 ☧ ANATOLIAN HIEROGLYPH A299
 = solium
 = syllabic í
 14551 ☧ ANATOLIAN HIEROGLYPH A299A
 = syllabic iá
 14552 ☧ ANATOLIAN HIEROGLYPH A300
 = nepos
 14553 ☧ ANATOLIAN HIEROGLYPH A301
 = lectus
 14554 ☧ ANATOLIAN HIEROGLYPH A302
 → 145C3 ☧ anatolian hieroglyph a399
 14555 ☧ ANATOLIAN HIEROGLYPH A303
 = syllabic sara/i?
 14556 ☧ ANATOLIAN HIEROGLYPH A304
 = syllabic mà
 14557 ☧ ANATOLIAN HIEROGLYPH A305
 = fusus
 14558 ☧ ANATOLIAN HIEROGLYPH A306
 = syllabic hí
 14559 ☧ ANATOLIAN HIEROGLYPH A307
 = syllabic hu
 1455A ☧ ANATOLIAN HIEROGLYPH A308
 1455B ☧ ANATOLIAN HIEROGLYPH A309
 = crux
 1455C ☧ ANATOLIAN HIEROGLYPH A309A
 = crux2
 1455D ☧ ANATOLIAN HIEROGLYPH A310
 → 144E4 ☧ anatolian hieroglyph a201
 1455E ☧ ANATOLIAN HIEROGLYPH A311
 1455F ☧ ANATOLIAN HIEROGLYPH A312
 → 14560 ☧ anatolian hieroglyph a313
 14560 ☧ ANATOLIAN HIEROGLYPH A313
 = vir
 = syllabic zí
 14561 ☧ ANATOLIAN HIEROGLYPH A314
 = syllabic ha-x
 14562 ☧ ANATOLIAN HIEROGLYPH A315
 = syllabic kar
 14563 ☧ ANATOLIAN HIEROGLYPH A316
 = syllabic sa7
 14564 ☧ ANATOLIAN HIEROGLYPH A317
 14565 ☧ ANATOLIAN HIEROGLYPH A318
 = Teshub
 14566 ☧ ANATOLIAN HIEROGLYPH A319
 = syllabic ta/i4, la/i
 14567 ☧ ANATOLIAN HIEROGLYPH A320
 → 144C0 ☧ anatolian hieroglyph a165
 14568 ☧ ANATOLIAN HIEROGLYPH A321

14569	☞ ANATOLIAN HIEROGLYPH A322 = purus	14586	☞ ANATOLIAN HIEROGLYPH A345 = urceus
1456A	☞ ANATOLIAN HIEROGLYPH A323 → 14569 ☞ anatolian hieroglyph a322	14587	☞ ANATOLIAN HIEROGLYPH A346 = poculum
1456B	☞ ANATOLIAN HIEROGLYPH A324	14588	☞ ANATOLIAN HIEROGLYPH A347 = syllabic hú
1456C	☞ ANATOLIAN HIEROGLYPH A325 = syllabic tú	14589	☞ ANATOLIAN HIEROGLYPH A348 → 1458A ☞ anatolian hieroglyph a349
1456D	☞ ANATOLIAN HIEROGLYPH A326 = scriba	1458A	☞ ANATOLIAN HIEROGLYPH A349
	= syllabic tú	1458B	☞ ANATOLIAN HIEROGLYPH A350
1456E	☞ ANATOLIAN HIEROGLYPH A327 = sigillum	1458C	☞ ANATOLIAN HIEROGLYPH A351
	= syllabic sa5	1458D	☞ ANATOLIAN HIEROGLYPH A352 → 14586 ☞ anatolian hieroglyph a345
1456F	☞ ANATOLIAN HIEROGLYPH A328 = syllabic pu	1458E	☞ ANATOLIAN HIEROGLYPH A353 → 14586 ☞ anatolian hieroglyph a345
14570	☞ ANATOLIAN HIEROGLYPH A329 = relative	1458F	☞ ANATOLIAN HIEROGLYPH A354 → 14586 ☞ anatolian hieroglyph a345
	= syllabic kwi/a	14590	☞ ANATOLIAN HIEROGLYPH A355 = sacerdos
14571	☞ ANATOLIAN HIEROGLYPH A329A → 14630 ☞ anatolian hieroglyph a508	14591	☞ ANATOLIAN HIEROGLYPH A356
14572	☞ ANATOLIAN HIEROGLYPH A330 = capere+scalprum	14592	☞ ANATOLIAN HIEROGLYPH A357
14573	☞ ANATOLIAN HIEROGLYPH A331 = avus	14593	☞ ANATOLIAN HIEROGLYPH A358 = dies
14574	☞ ANATOLIAN HIEROGLYPH A332A = negative	14594	☞ ANATOLIAN HIEROGLYPH A359 → 14593 ☞ anatolian hieroglyph a358
14575	☞ ANATOLIAN HIEROGLYPH A332B = negative2	14595	☞ ANATOLIAN HIEROGLYPH A359A → 14517 ☞ anatolian hieroglyph a245
14576	☞ ANATOLIAN HIEROGLYPH A332C = negative3		

G. Vases and receptacles

14577	☞ ANATOLIAN HIEROGLYPH A333	14596	☞ ANATOLIAN HIEROGLYPH A360 = deus
14578	☞ ANATOLIAN HIEROGLYPH A334 = syllabic pa	14597	☞ ANATOLIAN HIEROGLYPH A361
14579	☞ ANATOLIAN HIEROGLYPH A335 = syllabic zá	14598	☞ ANATOLIAN HIEROGLYPH A362 = syllabic má
1457A	☞ ANATOLIAN HIEROGLYPH A336 = annus, pithos.scutella, pithos = syllabic zì	14599	☞ ANATOLIAN HIEROGLYPH A363 = magnus = syllabic ur
1457B	☞ ANATOLIAN HIEROGLYPH A336A = syllabic zì	1459A	☞ ANATOLIAN HIEROGLYPH A364 = syllabic u → 1447A ☞ anatolian hieroglyph a105
1457C	☞ ANATOLIAN HIEROGLYPH A336B = syllabic zà	1459B	☞ ANATOLIAN HIEROGLYPH A364A = syllabic mu → 1447E ☞ anatolian hieroglyph a107
1457D	☞ ANATOLIAN HIEROGLYPH A336C = syllabic za-x	1459C	☞ ANATOLIAN HIEROGLYPH A365
1457E	☞ ANATOLIAN HIEROGLYPH A337 = pithos	1459D	☞ ANATOLIAN HIEROGLYPH A366 = omnis(+mi)
1457F	☞ ANATOLIAN HIEROGLYPH A338 = culter	1459E	☞ ANATOLIAN HIEROGLYPH A367 = logosyllabic tala
14580	☞ ANATOLIAN HIEROGLYPH A339 → 14566 ☞ anatolian hieroglyph a319	1459F	☞ ANATOLIAN HIEROGLYPH A368 = malus
14581	☞ ANATOLIAN HIEROGLYPH A340 = annus+annus	145A0	☞ ANATOLIAN HIEROGLYPH A368A = malus2
14582	☞ ANATOLIAN HIEROGLYPH A341 = vas	145A1	☞ ANATOLIAN HIEROGLYPH A369 = vita
14583	☞ ANATOLIAN HIEROGLYPH A342 → 14559 ☞ anatolian hieroglyph a307	145A2	△ ANATOLIAN HIEROGLYPH A370 = bonus2 = syllabic su
14584	☞ ANATOLIAN HIEROGLYPH A343 = pithos	145A3	☞ ANATOLIAN HIEROGLYPH A371 = iustitia, iudex
14585	☞ ANATOLIAN HIEROGLYPH A344 = contractus	145A4	☞ ANATOLIAN HIEROGLYPH A371A = iudex+ra/i, tara/i-x

145A5		ANATOLIAN HIEROGLYPH A372 = sacerdos2
145A6		ANATOLIAN HIEROGLYPH A373
145A7		ANATOLIAN HIEROGLYPH A374
145A8		ANATOLIAN HIEROGLYPH A375
145A9		ANATOLIAN HIEROGLYPH A376 = syllabic zi, zi/a
145AA		ANATOLIAN HIEROGLYPH A377 = syllabic za
145AB		ANATOLIAN HIEROGLYPH A378 = lituus
145AC		ANATOLIAN HIEROGLYPH A379 = occidens = syllabic ia

J. Lines, numbers, and geometric shapes

145AD		ANATOLIAN HIEROGLYPH A380 = one
		= unus
		= syllabic sa8
145AE		ANATOLIAN HIEROGLYPH A381 = minus
145AF		ANATOLIAN HIEROGLYPH A381A = mori, vir2.minus
145B0		ANATOLIAN HIEROGLYPH A382 = lignum
145B1		ANATOLIAN HIEROGLYPH A383 COMBINING RA OR RI
145B2		ANATOLIAN HIEROGLYPH A383A = personal determinative
145B3		ANATOLIAN HIEROGLYPH A384 = two
145B4		ANATOLIAN HIEROGLYPH A385 = two
145B5		ANATOLIAN HIEROGLYPH A386 = vir2
		= word divider
145B6		ANATOLIAN HIEROGLYPH A386A = vir2a
145B7		ANATOLIAN HIEROGLYPH A387 = servus
		= syllabic mi
145B8		ANATOLIAN HIEROGLYPH A388 = three
		= tara/i?
145B9		ANATOLIAN HIEROGLYPH A389 = tara/i
		≡ 145B8 145B1
145BA		ANATOLIAN HIEROGLYPH A390 = dominus
145BB		ANATOLIAN HIEROGLYPH A391 = four
		= syllabic mi
145BC		ANATOLIAN HIEROGLYPH A392 = five
145BD		ANATOLIAN HIEROGLYPH A393 EIGHT = eight
145BE		ANATOLIAN HIEROGLYPH A394
145BF		ANATOLIAN HIEROGLYPH A395 = nine
		= syllabic nu
145C0		ANATOLIAN HIEROGLYPH A396

145C1		ANATOLIAN HIEROGLYPH A397 = ten
		= decem
145C2		ANATOLIAN HIEROGLYPH A398
145C3		ANATOLIAN HIEROGLYPH A399 = hundred
		= centum
145C4		ANATOLIAN HIEROGLYPH A400 = thousand
		= mille
145C5		ANATOLIAN HIEROGLYPH A401 → 14614 145A4 anatolian hieroglyph a477
145C6		ANATOLIAN HIEROGLYPH A402 = scutella
		= syllabic sa4
145C7		ANATOLIAN HIEROGLYPH A403
145C8		ANATOLIAN HIEROGLYPH A404 = animal
145C9		ANATOLIAN HIEROGLYPH A405
145CA		ANATOLIAN HIEROGLYPH A406
145CB		ANATOLIAN HIEROGLYPH A407
145CC		ANATOLIAN HIEROGLYPH A408 → 14458 145A4 anatolian hieroglyph a079
145CD		ANATOLIAN HIEROGLYPH A409
145CE		ANATOLIAN HIEROGLYPH A410 BEGIN LOGOGRAM MARK
145CF		ANATOLIAN HIEROGLYPH A410A END LOGOGRAM MARK
145D0		ANATOLIAN HIEROGLYPH A411 = syllabic ni
145D1		ANATOLIAN HIEROGLYPH A412 = syllabic ru
145D2		ANATOLIAN HIEROGLYPH A413 = syllabic hi
145D3		ANATOLIAN HIEROGLYPH A414 → 145D2 145A4 anatolian hieroglyph a413
145D4		ANATOLIAN HIEROGLYPH A415 = syllabic sa
145D5		ANATOLIAN HIEROGLYPH A416 → 14566 145A4 anatolian hieroglyph a319
145D6		ANATOLIAN HIEROGLYPH A417 = syllabic sa-x
145D7		ANATOLIAN HIEROGLYPH A418
145D8		ANATOLIAN HIEROGLYPH A419 = syllabic mi
		= logosyllabic urhi
145D9		ANATOLIAN HIEROGLYPH A420 → 145D8 145A4 anatolian hieroglyph a419
145DA		ANATOLIAN HIEROGLYPH A421 = syllabic us
145DB		ANATOLIAN HIEROGLYPH A422 = panis.scutella
145DC		ANATOLIAN HIEROGLYPH A423 = syllabic ku
145DD		ANATOLIAN HIEROGLYPH A424
145DE		ANATOLIAN HIEROGLYPH A425
145DF		ANATOLIAN HIEROGLYPH A426
145E0		ANATOLIAN HIEROGLYPH A427
145E1		ANATOLIAN HIEROGLYPH A428
145E2		ANATOLIAN HIEROGLYPH A429 = syllabic tana

- 145E3 ⚫ ANATOLIAN HIEROGLYPH A430
= omnis2
= syllabic pú
145E4 ⚪ ANATOLIAN HIEROGLYPH A431
145E5 ⚭ ANATOLIAN HIEROGLYPH A432
= syllabic zu?

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- 145E6 ⚮ ANATOLIAN HIEROGLYPH A433
= syllabic sá
145E7 ⚯ ANATOLIAN HIEROGLYPH A434
= syllabic ka
145E8 ⚰ ANATOLIAN HIEROGLYPH A435
= syllabic a-x?
145E9 ⚱ ANATOLIAN HIEROGLYPH A436
145EA ⚲ ANATOLIAN HIEROGLYPH A437
145EB ⚳ ANATOLIAN HIEROGLYPH A438
= pastor
145EC ⚴ ANATOLIAN HIEROGLYPH A439
= syllabic wa/i
145ED ⚵ ANATOLIAN HIEROGLYPH A440
145EE ⚶ ANATOLIAN HIEROGLYPH A441
145EF ⚷ ANATOLIAN HIEROGLYPH A442
145F0 ⚸ ANATOLIAN HIEROGLYPH A443
145F1 ⚹ ANATOLIAN HIEROGLYPH A444
→ 14408 ⚺ anatolian hieroglyph a009
145F2 ⚺ ANATOLIAN HIEROGLYPH A445
= syllabic la, li, lu
145F3 ⚻ ANATOLIAN HIEROGLYPH A446
= syllabic ki
145F4 ⚼ ANATOLIAN HIEROGLYPH A447
= syllabic ni-x
→ 1441B ⚽ anatolian hieroglyph a026a
145F5 ⚾ ANATOLIAN HIEROGLYPH A448
= syllabic sù?, zú?
145F6 ⚿ ANATOLIAN HIEROGLYPH A449
145F7 ⚿ ANATOLIAN HIEROGLYPH A450
= syllabic a
= end of a word
145F8 ⚿ ANATOLIAN HIEROGLYPH A450A
= a+ra/i, ra+a
≡ 145F7 ⚿ 145B1 ⚘
145F9 ⚿ ANATOLIAN HIEROGLYPH A451
= logosyllabic huru
145FA ⚿ ANATOLIAN HIEROGLYPH A452
145FB ⚿ ANATOLIAN HIEROGLYPH A453
→ 144CE ⚿ anatolian hieroglyph a179
145FC ⚿ ANATOLIAN HIEROGLYPH A454
→ 144CE ⚿ anatolian hieroglyph a179
145FD ⚿ ANATOLIAN HIEROGLYPH A455
= syllabic la-x
145FE ⚿ ANATOLIAN HIEROGLYPH A456
= syllabic si?
145FF ⚿ ANATOLIAN HIEROGLYPH A457
→ 14496 ⚿ anatolian hieroglyph a125
14600 ⚿ ANATOLIAN HIEROGLYPH A457A
14601 ⚿ ANATOLIAN HIEROGLYPH A458
14602 ⚿ ANATOLIAN HIEROGLYPH A459
14603 ⚿ ANATOLIAN HIEROGLYPH A460
14604 ⚿ ANATOLIAN HIEROGLYPH A461
→ 14605 ⚿ anatolian hieroglyph a462

- 14605 ⚿ ANATOLIAN HIEROGLYPH A462
= syllabic ma-x?
14606 ⚿ ANATOLIAN HIEROGLYPH A463
14607 ⚿ ANATOLIAN HIEROGLYPH A464
14608 ⚿ ANATOLIAN HIEROGLYPH A465
→ 144DA ⚿ anatolian hieroglyph a191
14609 ⚿ ANATOLIAN HIEROGLYPH A466
1460A ⚿ ANATOLIAN HIEROGLYPH A467
→ 144DA ⚿ anatolian hieroglyph a191
1460B ⚿ ANATOLIAN HIEROGLYPH A468
→ 1460C ⚿ anatolian hieroglyph a469
1460C ⚿ ANATOLIAN HIEROGLYPH A469
1460D ⚿ ANATOLIAN HIEROGLYPH A470
= twelve
1460E ⚿ ANATOLIAN HIEROGLYPH A471
1460F ⚿ ANATOLIAN HIEROGLYPH A472
14610 ⚿ ANATOLIAN HIEROGLYPH A473
→ 14611 ⚿ anatolian hieroglyph a474
14611 ⚿ ANATOLIAN HIEROGLYPH A474
= eunuchus
→ 14520 ⚿ anatolian hieroglyph a254
14612 ⚿ ANATOLIAN HIEROGLYPH A475
14613 ⚿ ANATOLIAN HIEROGLYPH A476
14614 ⚿ ANATOLIAN HIEROGLYPH A477
= flammae?
14615 ⚿ ANATOLIAN HIEROGLYPH A478
14616 ⚿ ANATOLIAN HIEROGLYPH A479
→ 14614 ⚿ anatolian hieroglyph a477
14617 ⚿ ANATOLIAN HIEROGLYPH A480
14618 ⚿ ANATOLIAN HIEROGLYPH A481
14619 ⚿ ANATOLIAN HIEROGLYPH A482
1461A ⚿ ANATOLIAN HIEROGLYPH A483
1461B ⚿ ANATOLIAN HIEROGLYPH A484
1461C ⚿ ANATOLIAN HIEROGLYPH A485
1461D ⚿ ANATOLIAN HIEROGLYPH A486
= falx?
1461E ⚿ ANATOLIAN HIEROGLYPH A487
→ 14400 ⚿ anatolian hieroglyph a001
1461F ⚿ ANATOLIAN HIEROGLYPH A488
= syllabic ti
14620 ⚿ ANATOLIAN HIEROGLYPH A489
14621 ⚿ ANATOLIAN HIEROGLYPH A490
14622 ⚿ ANATOLIAN HIEROGLYPH A491
14623 ⚿ ANATOLIAN HIEROGLYPH A492
14624 ⚿ ANATOLIAN HIEROGLYPH A493
14625 ⚿ ANATOLIAN HIEROGLYPH A494
14626 ⚿ ANATOLIAN HIEROGLYPH A495
14627 ⚿ ANATOLIAN HIEROGLYPH A496
14628 ⚿ ANATOLIAN HIEROGLYPH A497

M. Additional signs

- 14629 ⚿ ANATOLIAN HIEROGLYPH A501
1462A ⚿ ANATOLIAN HIEROGLYPH A502
1462B ⚿ ANATOLIAN HIEROGLYPH A503
1462C ⚿ ANATOLIAN HIEROGLYPH A504
1462D ⚿ ANATOLIAN HIEROGLYPH A505
1462E ⚿ ANATOLIAN HIEROGLYPH A506
= syllabic hana
1462F ⚿ ANATOLIAN HIEROGLYPH A507

14630	 ANATOLIAN HIEROGLYPH A508	
	= currere	
	= syllabic hwi/a	
14631	 ANATOLIAN HIEROGLYPH A509	
14632	 ANATOLIAN HIEROGLYPH A510	
14633	 ANATOLIAN HIEROGLYPH A511	
14634	 ANATOLIAN HIEROGLYPH A512	
14635	 ANATOLIAN HIEROGLYPH A513	
14636	 ANATOLIAN HIEROGLYPH A514	
14637	 ANATOLIAN HIEROGLYPH A515	
14638	 ANATOLIAN HIEROGLYPH A516	
14639	 ANATOLIAN HIEROGLYPH A517	
1463A	 ANATOLIAN HIEROGLYPH A518	
	→ 14487  anatolian hieroglyph a111	
1463B	 ANATOLIAN HIEROGLYPH A519	
	→ 14586  anatolian hieroglyph a345	
1463C	 ANATOLIAN HIEROGLYPH A520	
1463D	 ANATOLIAN HIEROGLYPH A521	
1463E	 ANATOLIAN HIEROGLYPH A522	
1463F	 ANATOLIAN HIEROGLYPH A523	
14640	 ANATOLIAN HIEROGLYPH A524	
	= propheta?, cornu+caput	
14641	 ANATOLIAN HIEROGLYPH A525	
	= princeps	
14642	 ANATOLIAN HIEROGLYPH A526	
	= Güterbock G195	
14643	 ANATOLIAN HIEROGLYPH A527	
	= aper	
14644	 ANATOLIAN HIEROGLYPH A528	
	= ti	
14645	 ANATOLIAN HIEROGLYPH A529	
	= lingua+x	
14646	 ANATOLIAN HIEROGLYPH A530	

Figures



Figure 1. Sample of Luwian text from Payne 2004. Set as a sentence in a modern font it reads: ⤷⤵⤸⤹⤻⤼⤽⤿. Set as in the inscription it reads: ⤷⤸⤹⤻⤼⤽⤿.

The first character in the sentence is the determinative U+145B2 ANATOLIAN HIEROGLYPH A383A.

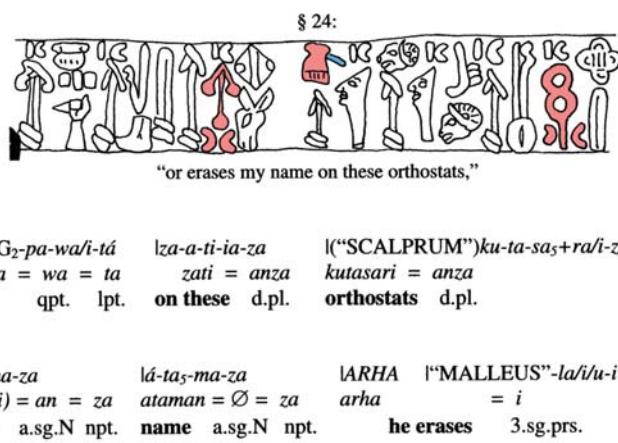


Figure 2. Sample of Luwian text from Payne 2004, showing the logogram marks in two different configurations in ⤷⤸ ‘chisel’ (SCALPRUM) and ⤷⤹ ‘hammer’ (MALLEUS). In the centre ⤷ + ⤸ *sari* (SA5+RA/I) can be seen with the *ra/i* coloured in blue.

*102	<u>CERVUS</u> / a) CERVUS, b) CERVUS ₂ ; <i>rú</i>	a)  b) 
*103	<u>CERVUS₂</u> / CERVUS ₃ ; <i>rú</i>	
*104	<u>GAZELLA</u> / a) CAPRA, b) CAPRA ₂ , c) CAPRA _{2A} ; <i>sà</i>	a)  , b)  c) 
*105	<u>BOS</u> / a) BOS b) BOS ₂ ; <i>u</i>	a)  ,  b) 
*106	--	
*107 (*167)	a) BOS+MI, b) BOS.MI; c) BOS ₂ .MI; <i>mu</i>	a)  ,  b)  c) 
*108	CORNU; <i>sú</i>	
*109	VITELLUS (<i>MA_x</i> in <i>MA_x-LI_x-zi</i> , 'Malatya')	
*110	<i>ma</i>	 , 
*111 (*518?)	a) OVIS, b) OVIS ₂ (=*518?)	a)  , b) 

Figure 3. Sample of a sign list from Payne 2004, showing the complex suite of identifiers commonly used by Anatolianists to transliterate and transcribe Anatolian Hieroglyphs.

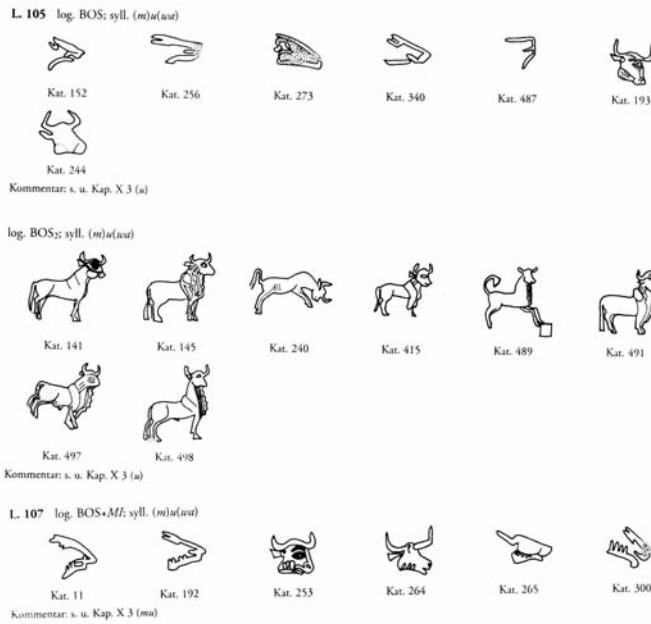


Figure 4. Sample from the sign list from Herbordt 2005, showing the readings “BOS”, “(m)u(wa)”, and “u” for A105; “BOS₂”, “(m)u(wa)”, and “u” for A105A, and “BOS+MI”, “(m)u(wa)”, and “mu” for A107.

mu (L. 107)

Occurrences. BOS: Kat. 18 (*Anani-*), 143 (*i(a) ... ni*), 146 (*i(a) ... ni*), 147 ([*i(a)] ... ni]), 148 (*i(a) ... [ni/n̄i]*), 149 (*i(a) ... n̄i*), 193 (EXERCITUS-), 244 (*Mizri-*), 245 (*Mizri-*), 247 (*Mizri-*), 255 (-*wa/i-á*), 267 (-*ti*), 268 (-*ti*), 269 (-*ti*), 270 (-*ti*), 275 (-*zi/a-runtiya*), 276 (-*zi/a-runtiya*), 301 (*Piba-*), 342 (*Pu-*), 365 (*Šauška-*), 366 (*Šauška-*), 367 (*Šauška-*), 369 (*Šauška-*), 370 (*Šauška-*), 371 (*Šauška-*), 416 (TONITRUS-), 417 (TONITRUS-), 460 (SOL-), 499(?).*

BOS+MI: Kat. 253 (-*tá-ziti*), 264 (-*ti*), 265 (-*ti*).

BOS.MI: Kat. 254 (-*tá-ziti*), 299 (*Piba-*).

BOS₂: Kat. 141 (*Ini-*), 142 (*I-ni-*), 144 (*i(a) ... ni*), 145 (*i(a) ... ni*), 234 (*Masa-*), 240 (*Mira-*), 259 (alone), 275 (-*zi/a-runtiya*), 276 (-*zi/a-runtiya*), 303 (*Pihasa-*), 415 (TONITRUS-), 417 (TONITRUS-), 523 (*zi/a ... la*).

BOS₂+MI: -

BOS₂.MI: Kat. 243 (*Mizri-*), 246 (*Mizri-*), 248 (*Mizri-*), 249(?), 274(?).

mi internal (+*MI*) or external (.*MI*); also, since *mu* properly consists of *u* + *mi*, if *mi* is omitted, as frequently, *mu* becomes indistinguishable from *u* (i. e. some of the forms BOS/BOS₂, cursive).

Reading. Long recognized, though the variants caused problems, confirmed by digraphs, Ras Shamra Hier. *mu* (cursive + *MI*) = Cun. -*mu-wa* (*Šauška-muwa*); Meskene (*Mudri-Tesub*); Nişantepe Kat. 248 = SBo II no. 81, cf. 80 (*Mizri-muwa*).

Usage. Syllabographic *mu* straightforward (e.g. Kat. 11), but *mu* final usually represents *mu(wa)* (Kat. 18, 27–28, 141–143 and 145–149, 192–193, 204, 234, 240, 242–249, 299–302, 303, 365–372, 415–417, 454–455, 460); initial *mu* is also often *mu(wa)* (Kat. 260–271, 272–273). Note the writing *mu-wa/i-á* for *Muwa* (Kat. 255–259). Uncertain: *la-mu* (Kat. 201–202); *pu-(m)u* (Kat. 339–342); *tu-mu* (Kat. 466).

Figure 5. Discussion of the reading of “*mu*” from Herbordt 2005.

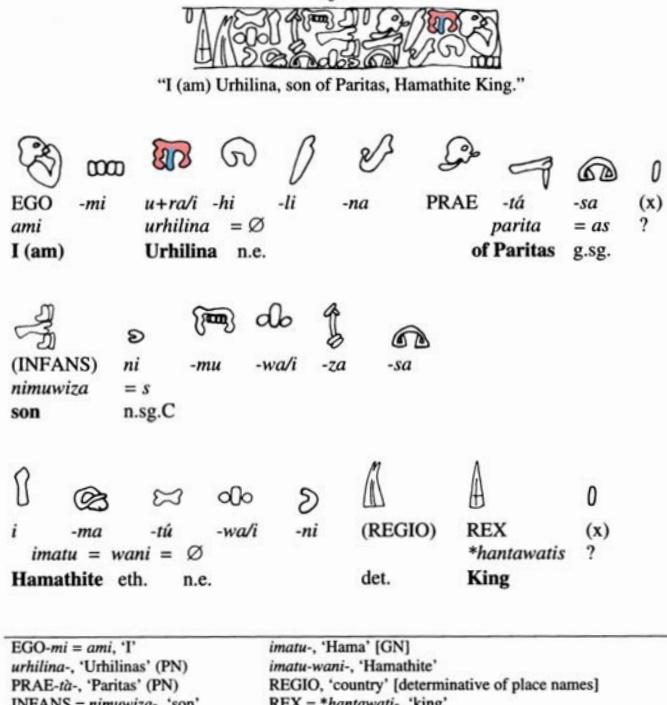


Figure 6. Sample of Luwian text from Payne 2004, showing COMBINING RA OR RI in vertical orientation in 𒌨 + 𒌵 ur (U + RA/I). Payne describes the combination as a “ligature” but she is not using UCS terminology.

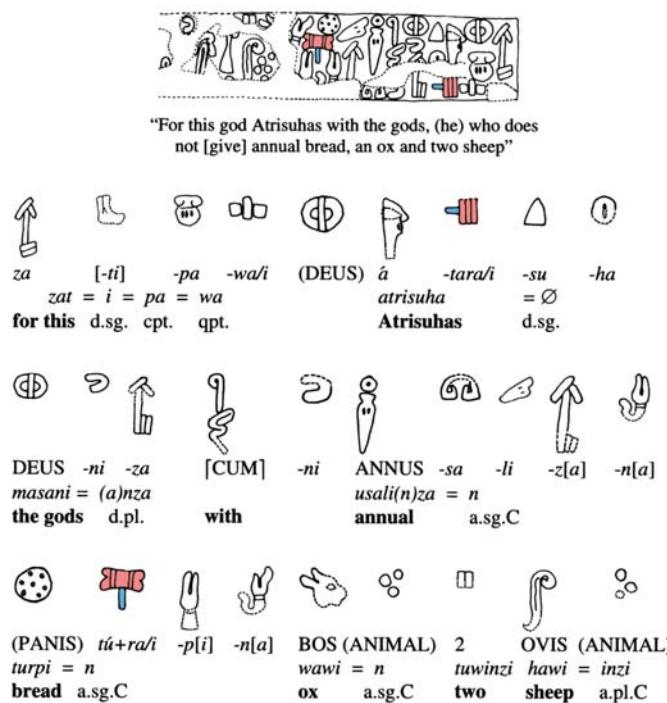


Figure 7. Sample of Luwian text from Payne 2004, showing COMBINING RA OR RI in two different orientations in 𒌨 + 𒌵 tur (TÚ+RA/I) and ॥ + 𒌵 tara/i (||+RI).

A. Administrative

1. Title

Revised proposal to encode Anatolian Hieroglyphs in the SMP of the UCS

2. Requester's name

UC Berkeley Script Encoding Initiative (Universal Scripts Project); authors: Michael Everson and Deborah Anderson

3. Requester type (Member body/Liaison/Individual contribution)

Liaison contribution.

4. Submission date

2012-07-15

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

1b. Proposed name of script

Anatolian Hieroglyphs.

1c. The proposal is for addition of character(s) to an existing block

No.

1d. Name of the existing block

2. Number of characters in proposal

583.

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category F.

4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document?

Yes.

4c. Are the character shapes attached in a legible form suitable for review?

Yes.

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer and FontLab.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes, see bibliography above.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes, see above.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

Yes. See N3144, N3236R, N4264.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Anna Murpurga Davies, Craig Melchert, Annick Payne, Mark Weeden.

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

Indo-Europeanists researching Anatolian languages using this script.

4a. The context of use for the proposed characters (type of use; common or rare)

Anatolian scripts are fairly rare as these things go.

4b. Reference

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

By scholars worldwide.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

Yes.

9b. If YES, is a rationale for its inclusion provided?

Yes.

9c. If YES, reference

Section 4 above.

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

Yes.

11b. If YES, is a rationale for such use provided?

Yes.

11c. If YES, reference

See above.

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?