

Universal Multiple-Octet Coded Character Set
 International Organization for Standardization
 Organisation Internationale de Normalisation
 Международная организация по стандартизации

Doc Type: Working Group Document

Title: Proposal to encode Anatolian Hieroglyphs in the SMP of the UCS
Source: UC Berkeley Script Encoding Initiative (Universal Scripts Project)
Author: Michael Everson
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Action: For consideration by JTC1/SC2/WG2 and UTC
Date: 2007-04-09

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.


















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.

3. Punctuation and spacing. In some texts, word division is indicated with the use of U+12622  ANATOLIAN HIEROGLYPH A386 or its variant U+12623  ANATOLIAN HIEROGLYPH A386A. To mark logograms, the characters U+1263B  ANATOLIAN HIEROGLYPH A410 BEGIN LOGOGRAM MARK and U+1263C  ANATOLIAN HIEROGLYPH A410A END LOGOGRAM MARK are optionally used, flanking the logogram as in  'wood'; see Figure 2. The characters U+12664  ANATOLIAN HIEROGLYPH A450 (which occurs very frequently) and U+12564  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+1261F  ANATOLIAN HIEROGLYPH A383 COMBINING RA OR RI which attaches fairly productively to Anatolian characters (it always touches its base character).

4. Repertoire. 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.  183 is now known to be a variant of  423 which has a reading *ku*;  352,  353,  354, and (possibly)  519 are all variants of  345 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 might avoid the use of the “redundant” letters, 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.

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 hiéroglyphs hittites*. The Laroche numbers have been taken as standard by subsequent researchers; Hawkins and Çambel 2000 augment this list with their numbers 501 to 524. In a number of instances, Laroche lists variants within a given catalogue number, thus: Laroche  457 (1) is distinguished from Laroche  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  460 (1) and  460 (2) are simply glyph variants and only a single 460 is proposed for encoding.)

5.3 The use of prefixes with the catalogue numbers. As with the Linear B catalogue numbers, the Laroche entities are typically given simply as numbers. UCS naming conventions, however, require that name elements begin with a letter, not a digit. In the case of Linear B, the letter B was prefixed to each of the catalogue names. For Anatolian Hieroglyphs, the letter A has been prefixed to each of the catalogue names. But it could be useful to use a range of letters to correspond to the classification Laroche made of the characters. Alan Gardiner broke the different Egyptian Hieroglyphs into 26 categories, which he labelled with different letters of the alphabet (A, B, C ... Y, Z, AA, omitting J). Similarly, Laroche broke the different Anatolian Hieroglyphs into 10 categories which he labelled with Roman numerals. The naming convention here could assign letters to the Roman numerals:

I.	Corps humain, vêtements	→	Axxx	“The human body and clothing”
II.	Animaux	→	Bxxx	“Animals”
III.	Végétaux	→	Cxxx	“Plants”
IV.	La nature	→	Dxxx	“Nature”
V.	Bâtiments	→	Exxx	“Buildings”
VI.	Armes, outils, meubles, instruments divers	→	Fxxx	“Arms, tools, furniture, and other instruments”
VII.	Vases, récipients	→	Gxxx	“Vases and receptacles”
VIII.	Symboles	→	Hxxx	“Symbols”
IX.	Traits, numéraux, formes géométriques	→	Jxxx	“Lines, numbers, and geometric shapes”
X.	Varia	→	Kxxx	“Varia”
	Hawkins’ “Additional Signs”	→	Mxxx	“Additional Signs”.

Since no letters were traditionally assigned to these categories, the letters I and L would not used because they may be ambiguous depending on typeface and case. (As noted above, Gardiner eschewed the letter J when he assigned letters to the Egyptian classes, probably because the letter did not exist in Latin.) Because some of the characters were originally placed into classifications to which they don’t belong, it could also be possible now to use the lettering convention to make the relation of main sign and variant sign clearer; so 𐎗 519 mentioned above could named G519 because it belongs in “Vases and receptacles” along with the other pitchers, not M519 though most of the characters in 501-524 are M. Because the catalogue numbers are serial, users would also be able to determine the original group.

5.4 Latin notes in the names list. 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 𐎗 BOS.MI) and the plus sign indicates that the elements form a graphic unit (as in 𐎗 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+12952 ANATOLIAN HIEROGLYPH BVA314.

5.5 Cross-references in the names list. The cross references indicate the relationship of variant characters to the main character, such as U+12483 𐎗 ANATOLIAN HIEROGLYPH A004 > U+12561 𐎗 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 used for a normalized text, since the variant forms have been deemed obsolete. This is essential information which should be retained in the names list.

5.6 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

129C5;ANATOLIAN HIEROGLYPH A419;Lo;0;L;;;;;N;;;;;
129C6;ANATOLIAN HIEROGLYPH A420;Lo;0;L;;;;;N;;;;;
129C7;ANATOLIAN HIEROGLYPH A421;Lo;0;L;;;;;N;;;;;
129C8;ANATOLIAN HIEROGLYPH A422;Lo;0;L;;;;;N;;;;;
129C9;ANATOLIAN HIEROGLYPH A423;Lo;0;L;;;;;N;;;;;
129CA;ANATOLIAN HIEROGLYPH A424;Lo;0;L;;;;;N;;;;;
129CB;ANATOLIAN HIEROGLYPH A425;Lo;0;L;;;;;N;;;;;
129CC;ANATOLIAN HIEROGLYPH A426;Lo;0;L;;;;;N;;;;;
129CD;ANATOLIAN HIEROGLYPH A427;Lo;0;L;;;;;N;;;;;
129CE;ANATOLIAN HIEROGLYPH A428;Lo;0;L;;;;;N;;;;;
129CF;ANATOLIAN HIEROGLYPH A429;Lo;0;L;;;;;N;;;;;
129D0;ANATOLIAN HIEROGLYPH A430;Lo;0;L;;;;;N;;;;;
129D1;ANATOLIAN HIEROGLYPH A431;Lo;0;L;;;;;N;;;;;
129D2;ANATOLIAN HIEROGLYPH A432;Lo;0;L;;;;;N;;;;;
129D3;ANATOLIAN HIEROGLYPH A433;Lo;0;L;;;;;N;;;;;
129D4;ANATOLIAN HIEROGLYPH A434;Lo;0;L;;;;;N;;;;;
129D5;ANATOLIAN HIEROGLYPH A435;Lo;0;L;;;;;N;;;;;
129D6;ANATOLIAN HIEROGLYPH A436;Lo;0;L;;;;;N;;;;;
129D7;ANATOLIAN HIEROGLYPH A437;Lo;0;L;;;;;N;;;;;
129D8;ANATOLIAN HIEROGLYPH A438;Lo;0;L;;;;;N;;;;;
129D9;ANATOLIAN HIEROGLYPH A439;Lo;0;L;;;;;N;;;;;
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129DB;ANATOLIAN HIEROGLYPH A441;Lo;0;L;;;;;N;;;;;
129DC;ANATOLIAN HIEROGLYPH A442;Lo;0;L;;;;;N;;;;;
129DD;ANATOLIAN HIEROGLYPH A443;Lo;0;L;;;;;N;;;;;
129DE;ANATOLIAN HIEROGLYPH A444;Lo;0;L;;;;;N;;;;;
129DF;ANATOLIAN HIEROGLYPH A445;Lo;0;L;;;;;N;;;;;
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129E1;ANATOLIAN HIEROGLYPH A447;Lo;0;L;;;;;N;;;;;
129E2;ANATOLIAN HIEROGLYPH A448;Lo;0;L;;;;;N;;;;;
129E3;ANATOLIAN HIEROGLYPH A449;Lo;0;L;;;;;N;;;;;
129E4;ANATOLIAN HIEROGLYPH A450;Lo;0;L;;;;;N;;;;;
129E5;ANATOLIAN HIEROGLYPH A451;Lo;0;L;;;;;N;;;;;
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129E7;ANATOLIAN HIEROGLYPH A453;Lo;0;L;;;;;N;;;;;
129E8;ANATOLIAN HIEROGLYPH A454;Lo;0;L;;;;;N;;;;;
129E9;ANATOLIAN HIEROGLYPH A455;Lo;0;L;;;;;N;;;;;
129EA;ANATOLIAN HIEROGLYPH A456;Lo;0;L;;;;;N;;;;;
129EB;ANATOLIAN HIEROGLYPH A457;Lo;0;L;;;;;N;;;;;
129EC;ANATOLIAN HIEROGLYPH A457A;Lo;0;L;;;;;N;;;;;
129ED;ANATOLIAN HIEROGLYPH A458;Lo;0;L;;;;;N;;;;;
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129F9;ANATOLIAN HIEROGLYPH A470
TWELVE;N1;0;L;;;12;N;;;;;

129FA;ANATOLIAN HIEROGLYPH A471;Lo;0;L;;;;;N;;;;;
129FB;ANATOLIAN HIEROGLYPH A472;Lo;0;L;;;;;N;;;;;
129FC;ANATOLIAN HIEROGLYPH A473;Lo;0;L;;;;;N;;;;;
129FD;ANATOLIAN HIEROGLYPH A474;Lo;0;L;;;;;N;;;;;
129FE;ANATOLIAN HIEROGLYPH A475;Lo;0;L;;;;;N;;;;;
129FF;ANATOLIAN HIEROGLYPH A476;Lo;0;L;;;;;N;;;;;
12A00;ANATOLIAN HIEROGLYPH A477;Lo;0;L;;;;;N;;;;;
12A01;ANATOLIAN HIEROGLYPH A478;Lo;0;L;;;;;N;;;;;
12A02;ANATOLIAN HIEROGLYPH A479;Lo;0;L;;;;;N;;;;;
12A03;ANATOLIAN HIEROGLYPH A480;Lo;0;L;;;;;N;;;;;
12A04;ANATOLIAN HIEROGLYPH A481;Lo;0;L;;;;;N;;;;;
12A05;ANATOLIAN HIEROGLYPH A482;Lo;0;L;;;;;N;;;;;
12A06;ANATOLIAN HIEROGLYPH A483;Lo;0;L;;;;;N;;;;;
12A07;ANATOLIAN HIEROGLYPH A484;Lo;0;L;;;;;N;;;;;
12A08;ANATOLIAN HIEROGLYPH A485;Lo;0;L;;;;;N;;;;;
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12A0E;ANATOLIAN HIEROGLYPH A491;Lo;0;L;;;;;N;;;;;
12A0F;ANATOLIAN HIEROGLYPH A492;Lo;0;L;;;;;N;;;;;
12A10;ANATOLIAN HIEROGLYPH A493;Lo;0;L;;;;;N;;;;;
12A11;ANATOLIAN HIEROGLYPH A494;Lo;0;L;;;;;N;;;;;
12A12;ANATOLIAN HIEROGLYPH A495;Lo;0;L;;;;;N;;;;;
12A13;ANATOLIAN HIEROGLYPH A496;Lo;0;L;;;;;N;;;;;
12A14;ANATOLIAN HIEROGLYPH A497;Lo;0;L;;;;;N;;;;;
12A15;ANATOLIAN HIEROGLYPH A501;Lo;0;L;;;;;N;;;;;
12A16;ANATOLIAN HIEROGLYPH A502;Lo;0;L;;;;;N;;;;;
12A17;ANATOLIAN HIEROGLYPH A503;Lo;0;L;;;;;N;;;;;
12A18;ANATOLIAN HIEROGLYPH A504;Lo;0;L;;;;;N;;;;;
12A19;ANATOLIAN HIEROGLYPH A505;Lo;0;L;;;;;N;;;;;
12A1A;ANATOLIAN HIEROGLYPH A506;Lo;0;L;;;;;N;;;;;
12A1B;ANATOLIAN HIEROGLYPH A507;Lo;0;L;;;;;N;;;;;
12A1C;ANATOLIAN HIEROGLYPH A508;Lo;0;L;;;;;N;;;;;
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12A1F;ANATOLIAN HIEROGLYPH A511;Lo;0;L;;;;;N;;;;;
12A20;ANATOLIAN HIEROGLYPH A512;Lo;0;L;;;;;N;;;;;
12A21;ANATOLIAN HIEROGLYPH A513;Lo;0;L;;;;;N;;;;;
12A22;ANATOLIAN HIEROGLYPH A514;Lo;0;L;;;;;N;;;;;
12A23;ANATOLIAN HIEROGLYPH A515;Lo;0;L;;;;;N;;;;;
12A24;ANATOLIAN HIEROGLYPH A516;Lo;0;L;;;;;N;;;;;
12A25;ANATOLIAN HIEROGLYPH A517;Lo;0;L;;;;;N;;;;;
12A26;ANATOLIAN HIEROGLYPH A518;Lo;0;L;;;;;N;;;;;
12A27;ANATOLIAN HIEROGLYPH A519;Lo;0;L;;;;;N;;;;;
12A28;ANATOLIAN HIEROGLYPH A520;Lo;0;L;;;;;N;;;;;
12A29;ANATOLIAN HIEROGLYPH A521;Lo;0;L;;;;;N;;;;;
12A2A;ANATOLIAN HIEROGLYPH A522;Lo;0;L;;;;;N;;;;;
12A2B;ANATOLIAN HIEROGLYPH A523;Lo;0;L;;;;;N;;;;;
12A2C;ANATOLIAN HIEROGLYPH A524;Lo;0;L;;;;;N;;;;;

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












*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.

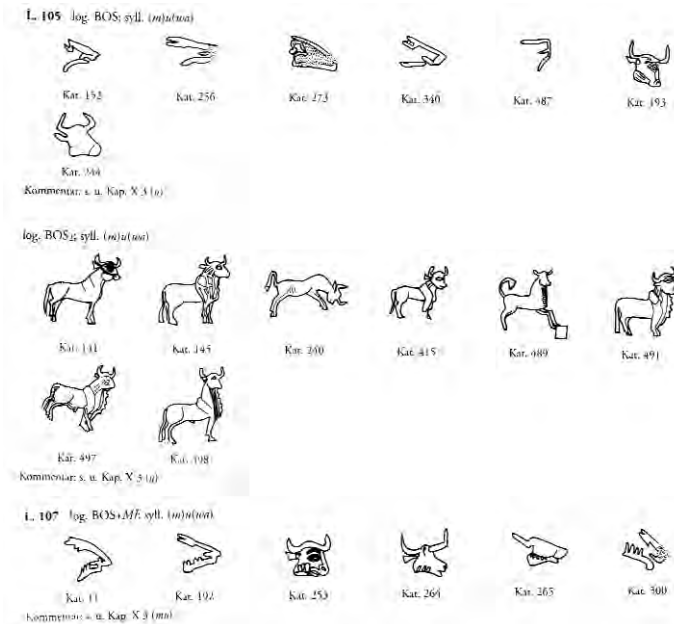


Figure 4. Sample from the sign list from Herbordt 2005, showing the readings “BOS”, “(m)u(wa)”, and “u” for A105; “BOS₂”, “(m)u(wa)”, and “u” for A105A, and “BOS+MI”, “(m)u(wa)”, and “mu” for A107.

mu (L. 107)

Occurrences. BOS: Kat. 18 (*Anani-*), 143 (*i(a) ... ni*), 146 (*i(a) ... ni*), 147 (*[i(a)] ... ni*), 148 (*i(a) ... [ni/ní]*), 149 (*i(a) ... ni*), 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 (*Šauska-*), 366 (*Šauska-*), 367 (*Šauska-*), 369 (*Šauska-*), 370 (*Šauska-*), 371 (*Šauska-*), 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 (*Pibasa-*), 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* (*Šauska-muwa*); Meskene (*Mudri-Tešub*); Nišantepe 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.

A. Administrative

1. Title

Proposal to encode Anatolian Hieroglyphs in the SMP of the UCS

2. Requester's name

UC Berkeley Script Encoding Initiative (Universal Scripts Project); author: Michael Everson

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

Liaison contribution.

4. Submission date

2007-04-09

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

557.

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.

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 Murpurgo Davies, Craig Melchert, Annick Payne.

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?

No.

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

9c. If YES, reference

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?

































































	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	128A	128B	128C	128D
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
A														
B														
C														
D														
E														
F														


	128E	128F	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	129A
0	128E0	128F0	12900	12910	12920	12930	12940	12950	12960	12970	12980	12990	129A0
1	128E1	128F1	12901	12911	12921	12931	12941	12951	12961	12971	12981	12991	129A1
2	128E2	128F2	12902	12912	12922	12932	12942	12952	12962	12972	12982	12992	129A2
3	128E3	128F3	12903	12913	12923	12933	12943	12953	12963	12973	12983	12993	129A3
4	128E4	128F4	12904	12914	12924	12934	12944	12954	12964	12974	12984	12994	129A4
5	128E5	128F5	12905	12915	12925	12935	12945	12955	12965	12975	12985	12995	129A5
6	128E6	128F6	12906	12916	12926	12936	12946	12956	12966	12976	12986	12996	129A6
7	128E7	128F7	12907	12917	12927	12937	12947	12957	12967	12977	12987	12997	129A7
8	128E8	128F8	12908	12918	12928	12938	12948	12958	12968	12978	12988	12998	129A8
9	128E9	128F9	12909	12919	12929	12939	12949	12959	12969	12979	12989	12999	129A9
A	128EA	128FA	1290A	1291A	1292A	1293A	1294A	1295A	1296A	1297A	1298A	1299A	129AA
B	128EB	128FB	1290B	1291B	1292B	1293B	1294B	1295B	1296B	1297B	1298B	1299B	129AB
C	128EC	128FC	1290C	1291C	1292C	1293C	1294C	1295C	1296C	1297C	1298C	1299C	129AC
D	128ED	128FD	1290D	1291D	1292D	1293D	1294D	1295D	1296D	1297D	1298D	1299D	129AD
E	128EE	128FE	1290E	1291E	1292E	1293E	1294E	1295E	1296E	1297E	1298E	1299E	129AE
F	128EF	128FF	1290F	1291F	1292F	1293F	1294F	1295F	1296F	1297F	1298F	1299F	129AF



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0	129B0	129C0	129D0	129E0	129F0	12A00	12A10	12A20					
1	129B1	129C1	129D1	129E1	129F1	12A01	12A11	12A21					
2	129B2	129C2	129D2	129E2	129F2	12A02	12A12	12A22					
3	129B3	129C3	129D3	129E3	129F3	12A03	12A13	12A23					
4	129B4	129C4	129D4	129E4	129F4	12A04	12A14	12A24					
5	129B5	129C5	129D5	129E5	129F5	12A05	12A15	12A25					
6	129B6	129C6	129D6	129E6	129F6	12A06	12A16	12A26					
7	129B7	129C7	129D7	129E7	129F7	12A07	12A17	12A27					
8	129B8	129C8	129D8	129E8	129F8	12A08	12A18	12A28					
9	129B9	129C9	129D9	129E9	129F9	12A09	12A19	12A29					
A	129BA	129CA	129DA	129EA	129FA	12A0A	12A1A	12A2A					
B	129BB	129CB	129DB	129EB	129FB	12A0B	12A1B	12A2B					
C	129BC	129CC	129DC	129EC	129FC	12A0C	12A1C	12A2C					
D	129BD	129CD	129DD	129ED	129FD	12A0D	12A1D	12A2D					
E	129BE	129CE	129DE	129EE	129FE	12A0E	12A1E	12A2E					
F	129BF	129CF	129DF	129EF	129FF	12A0F	12A1F	12A2F					


Note to reviewers: This is a preliminary proposal. The code points shown are merely suggestions for a possible placement. 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


- 12800  ANATOLIAN HIEROGLYPH A001
= ego
- 12801  ANATOLIAN HIEROGLYPH A002
= ego2
→ 12800  anatolian hieroglyph a001
- 12802  ANATOLIAN HIEROGLYPH A003
- 12803  ANATOLIAN HIEROGLYPH A004
= mons2
→ 128E1  anatolian hieroglyph a207
- 12804  ANATOLIAN HIEROGLYPH A005
- 12805  ANATOLIAN HIEROGLYPH A006
= adorare
- 12806  ANATOLIAN HIEROGLYPH A007
= edere
- 12807  ANATOLIAN HIEROGLYPH A008
= bibere
- 12808  ANATOLIAN HIEROGLYPH A009
= amplecti
- 12809  ANATOLIAN HIEROGLYPH A010
= caput
- 1280A  ANATOLIAN HIEROGLYPH A010A
= caput+scalprum
- 1280B  ANATOLIAN HIEROGLYPH A011
- 1280C  ANATOLIAN HIEROGLYPH A012
= statua
- 1280D  ANATOLIAN HIEROGLYPH A013
→ 1280E  anatolian hieroglyph a014
- 1280E  ANATOLIAN HIEROGLYPH A014
= praec
= syllabic pari
- 1280F  ANATOLIAN HIEROGLYPH A015
= domina
- 12810  ANATOLIAN HIEROGLYPH A016
= magnus.domina
- 12811  ANATOLIAN HIEROGLYPH A017
= rex
- 12812  ANATOLIAN HIEROGLYPH A018
= magnus.rex
- 12813  ANATOLIAN HIEROGLYPH A019
= syllabic á
- 12814  ANATOLIAN HIEROGLYPH A020
= lituus+á
- 12815  ANATOLIAN HIEROGLYPH A021
= heros
- 12816  ANATOLIAN HIEROGLYPH A022
= loqui
- 12817  ANATOLIAN HIEROGLYPH A023
- 12818  ANATOLIAN HIEROGLYPH A024
= lis
- 12819  ANATOLIAN HIEROGLYPH A025
= oculus
- 1281A  ANATOLIAN HIEROGLYPH A026
= frons
- 1281B  ANATOLIAN HIEROGLYPH A027
= libare
- 1281C  ANATOLIAN HIEROGLYPH A028
= fortis
- 1281D  ANATOLIAN HIEROGLYPH A029
= syllabic tá
- 1281E  ANATOLIAN HIEROGLYPH A030
- 1281F  ANATOLIAN HIEROGLYPH A031
= ligare, pugnus.pugnus
- 12820  ANATOLIAN HIEROGLYPH A032
= brachium
- 12821  ANATOLIAN HIEROGLYPH A033
- 12822  ANATOLIAN HIEROGLYPH A034
= post
- 12823  ANATOLIAN HIEROGLYPH A035
= syllabic na
- 12824  ANATOLIAN HIEROGLYPH A036
= lituus+na
- 12825  ANATOLIAN HIEROGLYPH A037
- 12826  ANATOLIAN HIEROGLYPH A038
- 12827  ANATOLIAN HIEROGLYPH A039
= pugnus
- 12828  ANATOLIAN HIEROGLYPH A039A
= pugnus+x
- 12829  ANATOLIAN HIEROGLYPH A040
→ 12827  anatolian hieroglyph a039
- 1282A  ANATOLIAN HIEROGLYPH A041
= capere
= syllabic tà
- 1282B  ANATOLIAN HIEROGLYPH A042
= capere2.capere2
= syllabic ta-x
- 1282C  ANATOLIAN HIEROGLYPH A043
= capere2
- 1282D  ANATOLIAN HIEROGLYPH A044
→ 12827  anatolian hieroglyph a039
- 1282E  ANATOLIAN HIEROGLYPH A045
= infans, filius, frater
- 1282F  ANATOLIAN HIEROGLYPH A045A
= filia
- 12830  ANATOLIAN HIEROGLYPH A046
= rex.infans, rex.filius
- 12831  ANATOLIAN HIEROGLYPH A046A
= rex.filia
- 12832  ANATOLIAN HIEROGLYPH A046B
= magnus.filia
- 12833  ANATOLIAN HIEROGLYPH A047
- 12834  ANATOLIAN HIEROGLYPH A048
- 12835  ANATOLIAN HIEROGLYPH A049
= syllabic a+tá
- 12836  ANATOLIAN HIEROGLYPH A050
- 12837  ANATOLIAN HIEROGLYPH A051
= pugnus.urbs
- 12838  ANATOLIAN HIEROGLYPH A052
= manus.culter
- 12839  ANATOLIAN HIEROGLYPH A053
= manus+culter, ensis
- 1283A  ANATOLIAN HIEROGLYPH A054



1283B  ANATOLIAN HIEROGLYPH A055
= syllabic ni


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→ 1283D  anatolian hieroglyph a057


1283D  ANATOLIAN HIEROGLYPH A057
= infra, sub
= syllabic ká



1283E  ANATOLIAN HIEROGLYPH A058
= cum



1283F  ANATOLIAN HIEROGLYPH A059
= manus


12840  ANATOLIAN HIEROGLYPH A060
→ 1283F  anatolian hieroglyph a059


12841  ANATOLIAN HIEROGLYPH A061


12842  ANATOLIAN HIEROGLYPH A062
= longus, manus+manus


12843  ANATOLIAN HIEROGLYPH A063
→ 1283F  anatolian hieroglyph a059


12844  ANATOLIAN HIEROGLYPH A064
→ 1283F  anatolian hieroglyph a059



12845  ANATOLIAN HIEROGLYPH A065
= ponere



12846  ANATOLIAN HIEROGLYPH A066
= dare
= syllabic pi


12847  ANATOLIAN HIEROGLYPH A066A
= mandare, dare.dare


12848  ANATOLIAN HIEROGLYPH A066B
= mandare2


12849  ANATOLIAN HIEROGLYPH A067


1284A  ANATOLIAN HIEROGLYPH A068
→ 12842  anatolian hieroglyph a062


1284B  ANATOLIAN HIEROGLYPH A069
→ 1283F  anatolian hieroglyph a059


1284C  ANATOLIAN HIEROGLYPH A070
= super



1284D  ANATOLIAN HIEROGLYPH A071


1284E  ANATOLIAN HIEROGLYPH A072


1284F  ANATOLIAN HIEROGLYPH A073
= audire, auris+tu+mi


12850  ANATOLIAN HIEROGLYPH A074


12851  ANATOLIAN HIEROGLYPH A075



12852  ANATOLIAN HIEROGLYPH A076
→ 128F1  anatolian hieroglyph a221


12853  ANATOLIAN HIEROGLYPH A077


12854  ANATOLIAN HIEROGLYPH A078
= ala


12855  ANATOLIAN HIEROGLYPH A079
= femina, mater


12856  ANATOLIAN HIEROGLYPH A080
= Sarma


12857  ANATOLIAN HIEROGLYPH A081
= Sarma2
→ 12856  anatolian hieroglyph a080



12858  ANATOLIAN HIEROGLYPH A082
= crus
= syllabic ta6



12859  ANATOLIAN HIEROGLYPH A083
= crus+flumen


1285A  ANATOLIAN HIEROGLYPH A084
= crus2


1285B  ANATOLIAN HIEROGLYPH A085
= genuflectare



1285C  ANATOLIAN HIEROGLYPH A086
= crus.crus


1285D  ANATOLIAN HIEROGLYPH A087
→ 1285C  anatolian hieroglyph a086


1285E  ANATOLIAN HIEROGLYPH A088
→ 1285F  anatolian hieroglyph a089



1285F  ANATOLIAN HIEROGLYPH A089
= syllabic tu


12860  ANATOLIAN HIEROGLYPH A090
= pes
= syllabic ti


12861  ANATOLIAN HIEROGLYPH A091
→ 12862  anatolian hieroglyph a092

12862  ANATOLIAN HIEROGLYPH A092
= pes.scale.rotae


12863  ANATOLIAN HIEROGLYPH A093
= pes2



12864  ANATOLIAN HIEROGLYPH A094
→ 12862  anatolian hieroglyph a092


12865  ANATOLIAN HIEROGLYPH A095
= pes2.pes2



12866  ANATOLIAN HIEROGLYPH A096
= pes2.pes


B. Animals


12867  ANATOLIAN HIEROGLYPH A097
= leo, bestia


12868  ANATOLIAN HIEROGLYPH A097A
= leo2
→ 12867  anatolian hieroglyph a097


12869  ANATOLIAN HIEROGLYPH A098
= canis



1286A  ANATOLIAN HIEROGLYPH A098A
= canis2
→ 12869  anatolian hieroglyph a098


1286B  ANATOLIAN HIEROGLYPH A099
= equus


1286C  ANATOLIAN HIEROGLYPH A100
= asinus
= syllabic ta


































































1286D  ANATOLIAN HIEROGLYPH A101
= asinus2

1286E  ANATOLIAN HIEROGLYPH A102
= cervus
= syllabic rú














1286F  ANATOLIAN HIEROGLYPH A102A
= cervus2
= syllabic rú
→ 1286E  anatolian hieroglyph a102

12870  ANATOLIAN HIEROGLYPH A103
= cervus3

12871  ANATOLIAN HIEROGLYPH A104
= capra
= syllabic sà

- 12872  ANATOLIAN HIEROGLYPH A104A
= capra2
→ 12871  anatolian hieroglyph a104
- 12873  ANATOLIAN HIEROGLYPH A104B
= capra2a
→ 12871  anatolian hieroglyph a104
- 12874  ANATOLIAN HIEROGLYPH A105
= bos
= syllabic u
- 12875  ANATOLIAN HIEROGLYPH A105A
= bos2
→ 12874  anatolian hieroglyph a105
- 12876  ANATOLIAN HIEROGLYPH A106
- 12877  ANATOLIAN HIEROGLYPH A107
= bos+mi
= syllabic mu
- 12878  ANATOLIAN HIEROGLYPH A107A
= bos.mi
→ 12877  anatolian hieroglyph a107
- 12879  ANATOLIAN HIEROGLYPH A107B
= bos2.mi
→ 12877  anatolian hieroglyph a107
- 1287A  ANATOLIAN HIEROGLYPH A108
= cornu
= sú
- 1287B  ANATOLIAN HIEROGLYPH A109
= vitellus
- 1287C  ANATOLIAN HIEROGLYPH A110
= syllabic ma
- 1287D  ANATOLIAN HIEROGLYPH A111
= ovis, ovis2
- 1287E  ANATOLIAN HIEROGLYPH A112
= lingere
= syllabic za4
- 1287F  ANATOLIAN HIEROGLYPH A113
→ 1281A  anatolian hieroglyph a026
- 12880  ANATOLIAN HIEROGLYPH A114
= lituus+u
- 12881  ANATOLIAN HIEROGLYPH A115
= lepus
- 12882  ANATOLIAN HIEROGLYPH A115A
= lepus2
→ 12881  anatolian hieroglyph a115
- 12883  ANATOLIAN HIEROGLYPH A116
→ 1286C  anatolian hieroglyph a100
- 12884  ANATOLIAN HIEROGLYPH A117
- 12885  ANATOLIAN HIEROGLYPH A118
- 12886  ANATOLIAN HIEROGLYPH A119
→ 1290B  anatolian hieroglyph a246
- 12887  ANATOLIAN HIEROGLYPH A120
= gryllus
- 12888  ANATOLIAN HIEROGLYPH A121
= sphinx
- 12889  ANATOLIAN HIEROGLYPH A122
- 1288A  ANATOLIAN HIEROGLYPH A123
- 1288B  ANATOLIAN HIEROGLYPH A124
= lepus2
→ 12881  anatolian hieroglyph a115
- 1288C  ANATOLIAN HIEROGLYPH A125
= syllabic lí
- 1288D  ANATOLIAN HIEROGLYPH A125A
= ungula
- 1288E  ANATOLIAN HIEROGLYPH A126
→ 1288C  anatolian hieroglyph a125
- 1288F  ANATOLIAN HIEROGLYPH A127
- 12890  ANATOLIAN HIEROGLYPH A128
= avis
= zi4
- 12891  ANATOLIAN HIEROGLYPH A129
- 12892  ANATOLIAN HIEROGLYPH A130
= avis3
- 12893  ANATOLIAN HIEROGLYPH A131
= avis5
- 12894  ANATOLIAN HIEROGLYPH A132
= avis2
- 12895  ANATOLIAN HIEROGLYPH A133
= aquila, avis4
= syllabic ara/i
- 12896  ANATOLIAN HIEROGLYPH A134
→ 12895  anatolian hieroglyph a133
- 12897  ANATOLIAN HIEROGLYPH A135
= avis-x
- 12898  ANATOLIAN HIEROGLYPH A136
→ 1282C  anatolian hieroglyph a043
- 12899  ANATOLIAN HIEROGLYPH A137
= libatio
- 1289A  ANATOLIAN HIEROGLYPH A138
= piscis
- 1289B  ANATOLIAN HIEROGLYPH A139
- 1289C  ANATOLIAN HIEROGLYPH A140
- 1289D  ANATOLIAN HIEROGLYPH A141
- 1289E  ANATOLIAN HIEROGLYPH A142
- 1289F  ANATOLIAN HIEROGLYPH A143
→ 128E9  anatolian hieroglyph a214
- 128A0  ANATOLIAN HIEROGLYPH A144
- 128A1  ANATOLIAN HIEROGLYPH A145
- 128A2  ANATOLIAN HIEROGLYPH A146
- 128A3  ANATOLIAN HIEROGLYPH A147
- 128A4  ANATOLIAN HIEROGLYPH A148
= Janus

C. Plants

- 128A5  ANATOLIAN HIEROGLYPH A149
- 128A6  ANATOLIAN HIEROGLYPH A150
- 128A7  ANATOLIAN HIEROGLYPH A151
= Telipinu
- 128A8  ANATOLIAN HIEROGLYPH A152
- 128A9  ANATOLIAN HIEROGLYPH A153
= syllabic nu
- 128AA  ANATOLIAN HIEROGLYPH A154
- 128AB  ANATOLIAN HIEROGLYPH A155
- 128AC  ANATOLIAN HIEROGLYPH A156
- 128AD  ANATOLIAN HIEROGLYPH A157
- 128AE  ANATOLIAN HIEROGLYPH A158
- 128AF  ANATOLIAN HIEROGLYPH A159
- 128B0  ANATOLIAN HIEROGLYPH A160
= vitis
= syllabic wi
- 128B1  ANATOLIAN HIEROGLYPH A161

128B2 𐎡 ANATOLIAN HIEROGLYPH A162
 128B3 𐎢 ANATOLIAN HIEROGLYPH A163
 128B4 𐎣 ANATOLIAN HIEROGLYPH A164
 128B5 𐎤 ANATOLIAN HIEROGLYPH A165
 = bonus
 = syllabic wà/i
 128B6 𐎥 ANATOLIAN HIEROGLYPH A166
 = syllabic wá/i
 128B7 𐎦 ANATOLIAN HIEROGLYPH A167
 → 12877 𐎦 anatolian hieroglyph a107
 128B8 𐎧 ANATOLIAN HIEROGLYPH A168
 → 12961 𐎧 anatolian hieroglyph a329
 128B9 𐎨 ANATOLIAN HIEROGLYPH A169
 → 1299E 𐎨 anatolian hieroglyph a382
 128BA 𐎩 ANATOLIAN HIEROGLYPH A170
 → 1284F 𐎩 anatolian hieroglyph a073
 128BB 𐎪 ANATOLIAN HIEROGLYPH A171
 128BC 𐎫 ANATOLIAN HIEROGLYPH A172
 = syllabic ta5
 128BD 𐎬 ANATOLIAN HIEROGLYPH A173
 = hastarius
 128BE 𐎭 ANATOLIAN HIEROGLYPH A174
 = syllabic si
 128BF 𐎮 ANATOLIAN HIEROGLYPH A175
 = lingua
 = syllabic la
 128C0 𐎯 ANATOLIAN HIEROGLYPH A176
 = syllabic la+la
 128C1 𐎰 ANATOLIAN HIEROGLYPH A177
 = lingua+clavus
 128C2 𐎱 ANATOLIAN HIEROGLYPH A178
 = syllabic la+ra+a
 128C3 𐎲 ANATOLIAN HIEROGLYPH A179
 = hordeum
 = syllabic hwi-x
 128C4 𐎳 ANATOLIAN HIEROGLYPH A180
 128C5 𐎴 ANATOLIAN HIEROGLYPH A181
 = panis
 = syllabic pa-x

D. Nature

128C6 𐎵 ANATOLIAN HIEROGLYPH A182
 = caelum
 128C7 𐎶 ANATOLIAN HIEROGLYPH A183
 → 129C9 𐎶 anatolian hieroglyph a423
 128C8 𐎷 ANATOLIAN HIEROGLYPH A184
 128C9 𐎸 ANATOLIAN HIEROGLYPH A185
 128CA 𐎹 ANATOLIAN HIEROGLYPH A186
 → 129DF 𐎹 anatolian hieroglyph a445
 128CB 𐎺 ANATOLIAN HIEROGLYPH A187
 128CC 𐎻 ANATOLIAN HIEROGLYPH A188
 128CD 𐎼 ANATOLIAN HIEROGLYPH A189
 128CE 𐎽 ANATOLIAN HIEROGLYPH A190
 = sol2
 128CF 𐎾 ANATOLIAN HIEROGLYPH A191
 = sol
 128D0 𐎿 ANATOLIAN HIEROGLYPH A192
 = oriens
 128D1 𐏀 ANATOLIAN HIEROGLYPH A193
 = luna

128D2 𐏁 ANATOLIAN HIEROGLYPH A194
 128D3 𐏂 ANATOLIAN HIEROGLYPH A195
 128D4 𐏃 ANATOLIAN HIEROGLYPH A196
 = Hatti
 = syllabic há
 128D5 𐏄 ANATOLIAN HIEROGLYPH A197
 = Hatti+li, Hattusili
 128D6 𐏅 ANATOLIAN HIEROGLYPH A198
 128D7 𐏆 ANATOLIAN HIEROGLYPH A199
 = tonitrus
 128D8 𐏇 ANATOLIAN HIEROGLYPH A200
 = fulgur
 128D9 𐏈 ANATOLIAN HIEROGLYPH A201
 = terra, locus
 = syllabic wa/i6
 128DA 𐏉 ANATOLIAN HIEROGLYPH A202
 = via+terra.scalprum
 128DB 𐏊 ANATOLIAN HIEROGLYPH A202A
 = via+terra+scalprum
 128DC 𐏋 ANATOLIAN HIEROGLYPH A202B
 = deus via+terra
 128DD 𐏌 ANATOLIAN HIEROGLYPH A203
 128DE 𐏍 ANATOLIAN HIEROGLYPH A204
 = syllabic wa/i5
 128DF 𐏎 ANATOLIAN HIEROGLYPH A205
 128E0 𐏏 ANATOLIAN HIEROGLYPH A206
 128E1 𐏐 ANATOLIAN HIEROGLYPH A207
 = mons
 = syllabic wa/i5
 128E2 𐏑 ANATOLIAN HIEROGLYPH A207A
 = leo+mons.tu+leo
 128E3 𐏒 ANATOLIAN HIEROGLYPH A208
 128E4 𐏓 ANATOLIAN HIEROGLYPH A209
 = syllabic i
 128E5 𐏔 ANATOLIAN HIEROGLYPH A210
 = syllabic ia
 128E6 𐏕 ANATOLIAN HIEROGLYPH A211
 128E7 𐏖 ANATOLIAN HIEROGLYPH A212
 = flumen
 128E8 𐏗 ANATOLIAN HIEROGLYPH A213
 → 128E7 𐏖 anatolian hieroglyph a212
 128E9 𐏘 ANATOLIAN HIEROGLYPH A214
 = syllabic ní
 128EA 𐏙 ANATOLIAN HIEROGLYPH A215
 = fons
 = syllabic ha
 128EB 𐏚 ANATOLIAN HIEROGLYPH A216
 = fines
 = syllabic arha
 128EC 𐏛 ANATOLIAN HIEROGLYPH A216A
 = fines+ha
 128ED 𐏜 ANATOLIAN HIEROGLYPH A217
 128EE 𐏝 ANATOLIAN HIEROGLYPH A218
 128EF 𐏞 ANATOLIAN HIEROGLYPH A219
 128F0 𐏟 ANATOLIAN HIEROGLYPH A220
 128F1 𐏠 ANATOLIAN HIEROGLYPH A221
 = via
 128F2 𐏡 ANATOLIAN HIEROGLYPH A222
 → 128F1 𐏠 anatolian hieroglyph a221
 128F3 𐏢 ANATOLIAN HIEROGLYPH A223
 = syllabic sa6

128F4 ✱ ANATOLIAN HIEROGLYPH A224
= syllabic ha? pa?

E. Buildings

128F5 ▲ ANATOLIAN HIEROGLYPH A225
= urbs

128F6 ⚙ ANATOLIAN HIEROGLYPH A226

128F7 ▲ ANATOLIAN HIEROGLYPH A227
= urbs+ra/i+li

128F8 ▲ ANATOLIAN HIEROGLYPH A227A
= urbs+li, Mursili

128F9 ▲ ANATOLIAN HIEROGLYPH A228
= regio

128FA ⚙ ANATOLIAN HIEROGLYPH A229
= syllabic mí.regio

128FB ▲ ANATOLIAN HIEROGLYPH A230
= syllabic tu4

128FC ▲ ANATOLIAN HIEROGLYPH A231
= castrum

128FD ▲ ANATOLIAN HIEROGLYPH A232
→ 128EF ⚙ anatolian hieroglyph a231

128FE ▲ ANATOLIAN HIEROGLYPH A233
→ 128EF ⚙ anatolian hieroglyph a231

128FF ⚙ ANATOLIAN HIEROGLYPH A234

12900 ⚙ ANATOLIAN HIEROGLYPH A235
= turris

12901 ⚙ ANATOLIAN HIEROGLYPH A236
= murus

12902 ⚙ ANATOLIAN HIEROGLYPH A237
= porta

12903 ⚙ ANATOLIAN HIEROGLYPH A238
→ 12902 ⚙ anatolian hieroglyph a237

12904 ⚙ ANATOLIAN HIEROGLYPH A239
= porta2

12905 ⚙ ANATOLIAN HIEROGLYPH A240

12906 ⚙ ANATOLIAN HIEROGLYPH A241
= syllabic ki-x

12907 ⚙ ANATOLIAN HIEROGLYPH A242
→ 129D2 ⚙ anatolian hieroglyph a432

12908 ⚙ ANATOLIAN HIEROGLYPH A243
= cubitum

12909 ⚙ ANATOLIAN HIEROGLYPH A244
= aedificium

1290A ⚙ ANATOLIAN HIEROGLYPH A245
= vacuus, aedificium+minus

1290B ⚙ ANATOLIAN HIEROGLYPH A246
= aedificare, aedificium.ponere

1290C ⚙ ANATOLIAN HIEROGLYPH A247
= domus

1290D ⚙ ANATOLIAN HIEROGLYPH A248
= delere, domus+minus

1290E ⚙ ANATOLIAN HIEROGLYPH A249
= deus.domus

1290F ⚙ ANATOLIAN HIEROGLYPH A250
= magnus.domus

12910 ⚙ ANATOLIAN HIEROGLYPH A251
= domus+x

12911 ⚙ ANATOLIAN HIEROGLYPH A252
= domus+scala

12912 ⚙ ANATOLIAN HIEROGLYPH A253
→ 12911 ⚙ anatolian hieroglyph a252

12913 ⚙ ANATOLIAN HIEROGLYPH A254
= eunuchus2
→ 129FD ⚙ anatolian hieroglyph a474

12914 ⚙ ANATOLIAN HIEROGLYPH A255

12915 ⚙ ANATOLIAN HIEROGLYPH A256
→ 12914 ⚙ anatolian hieroglyph a255

12916 ⚙ ANATOLIAN HIEROGLYPH A257
= argentum

12917 ⚙ ANATOLIAN HIEROGLYPH A258
→ 12916 ⚙ anatolian hieroglyph a257

12918 ⚙ ANATOLIAN HIEROGLYPH A259

12919 ⚙ ANATOLIAN HIEROGLYPH A260
→ 12916 ⚙ anatolian hieroglyph a257

1291A ⚙ ANATOLIAN HIEROGLYPH A261

1291B ⚙ ANATOLIAN HIEROGLYPH A262

1291C ⚙ ANATOLIAN HIEROGLYPH A263

1291D ⚙ ANATOLIAN HIEROGLYPH A264
= podium

1291E ⚙ ANATOLIAN HIEROGLYPH A265

1291F ⚙ ANATOLIAN HIEROGLYPH A266

12920 ⚙ ANATOLIAN HIEROGLYPH A267
= stele, lapis+scalprum

12921 ⚙ ANATOLIAN HIEROGLYPH A267A
= lapis

12922 ⚙ ANATOLIAN HIEROGLYPH A268
= scalprum

F. Arms, tools, furniture, and other instruments

12923 ⚙ ANATOLIAN HIEROGLYPH A269
= exercitus

12924 ⚙ ANATOLIAN HIEROGLYPH A270
→ 1284C ⚙ anatolian hieroglyph a070

12925 ⚙ ANATOLIAN HIEROGLYPH A271

12926 ⚙ ANATOLIAN HIEROGLYPH A272
= scutum

12927 ⚙ ANATOLIAN HIEROGLYPH A273

12928 ⚙ ANATOLIAN HIEROGLYPH A274

12929 ⚙ ANATOLIAN HIEROGLYPH A275

1292A ⚙ ANATOLIAN HIEROGLYPH A276
= frater2

1292B ⚙ ANATOLIAN HIEROGLYPH A277
= iustitia.la, iudex.la

1292C ⚙ ANATOLIAN HIEROGLYPH A278
= syllabic li

1292D ⚙ ANATOLIAN HIEROGLYPH A279

1292E ⚙ ANATOLIAN HIEROGLYPH A280
= malleus
= syllabic wa/i9

1292F ⚙ ANATOLIAN HIEROGLYPH A281
= ascia



12930 ⚙ ANATOLIAN HIEROGLYPH A282


12931 ⚙ ANATOLIAN HIEROGLYPH A283


12932 ⚙ ANATOLIAN HIEROGLYPH A284


12933 ⚙ ANATOLIAN HIEROGLYPH A285
= syllabic zu, zuwa


12934 ⚙ ANATOLIAN HIEROGLYPH A286
= syllabic wa/i7


12935  ANATOLIAN HIEROGLYPH A287
→ 129B0  anatolian hieroglyph a399


12936  ANATOLIAN HIEROGLYPH A288
= currus


12937  ANATOLIAN HIEROGLYPH A289
= auriga


12938  ANATOLIAN HIEROGLYPH A290
= syllabic hara/i


12939  ANATOLIAN HIEROGLYPH A291
= syllabic li


1293A  ANATOLIAN HIEROGLYPH A292
= rota
= syllabic hala/i



1293B  ANATOLIAN HIEROGLYPH A293


1293C  ANATOLIAN HIEROGLYPH A294
= thronus, mensa


1293D  ANATOLIAN HIEROGLYPH A294A
= thronus, mensa2


1293E  ANATOLIAN HIEROGLYPH A295


1293F  ANATOLIAN HIEROGLYPH A296
= mons.Sarpa


12940  ANATOLIAN HIEROGLYPH A297
→ 1293F  anatolian hieroglyph a296



12941  ANATOLIAN HIEROGLYPH A298
= thronus2


12942  ANATOLIAN HIEROGLYPH A299
= solium
= syllabic í


12943  ANATOLIAN HIEROGLYPH A299A
= syllabic íá


12944  ANATOLIAN HIEROGLYPH A300
= nepos


12945  ANATOLIAN HIEROGLYPH A301
= lectus


12946  ANATOLIAN HIEROGLYPH A302
→ 129B0  anatolian hieroglyph a399


12947  ANATOLIAN HIEROGLYPH A303
= syllabic sara/i


12948  ANATOLIAN HIEROGLYPH A304
= syllabic mà



12949  ANATOLIAN HIEROGLYPH A305
= fusus


1294A  ANATOLIAN HIEROGLYPH A306
= syllabic hí



1294B  ANATOLIAN HIEROGLYPH A307
= syllabic hu


1294C  ANATOLIAN HIEROGLYPH A308


1294D  ANATOLIAN HIEROGLYPH A309
= crux


1294E  ANATOLIAN HIEROGLYPH A310
→ 128D9  anatolian hieroglyph a201


1294F  ANATOLIAN HIEROGLYPH A311


12950  ANATOLIAN HIEROGLYPH A312
→ 12951  anatolian hieroglyph a313


12951  ANATOLIAN HIEROGLYPH A313
= vir
= syllabic zí


12952  ANATOLIAN HIEROGLYPH A314
= syllabic ha-x



12953  ANATOLIAN HIEROGLYPH A315
= syllabic kar


12954  ANATOLIAN HIEROGLYPH A316
= syllabic sa7


12955  ANATOLIAN HIEROGLYPH A317



12956  ANATOLIAN HIEROGLYPH A318
= Tesub


12957  ANATOLIAN HIEROGLYPH A319
= syllabic ta4, li-x?


12958  ANATOLIAN HIEROGLYPH A320
→ 128B5  anatolian hieroglyph a165


12959  ANATOLIAN HIEROGLYPH A321


1295A  ANATOLIAN HIEROGLYPH A322
= purus


1295B  ANATOLIAN HIEROGLYPH A323
→ 1295A  anatolian hieroglyph a322


1295C  ANATOLIAN HIEROGLYPH A324



1295D  ANATOLIAN HIEROGLYPH A325
= syllabic tú


1295E  ANATOLIAN HIEROGLYPH A326
= scriba
= syllabic tù


1295F  ANATOLIAN HIEROGLYPH A327
= sigillum
= syllabic sa5


12960  ANATOLIAN HIEROGLYPH A328
= syllabic pu


12961  ANATOLIAN HIEROGLYPH A329
= relative
= syllabic kwi/a


12962  ANATOLIAN HIEROGLYPH A329A
→ 12A1B  anatolian hieroglyph a508

12963  ANATOLIAN HIEROGLYPH A330
= capere+scalprum


12964  ANATOLIAN HIEROGLYPH A331
= avus


12965  ANATOLIAN HIEROGLYPH A332A
= negative


12966  ANATOLIAN HIEROGLYPH A332B
= negative2
= syllabic ná


12967  ANATOLIAN HIEROGLYPH A332C
= negative3


G. Vases and receptacles


12968  ANATOLIAN HIEROGLYPH A333


12969  ANATOLIAN HIEROGLYPH A334
= syllabic pa



1296A  ANATOLIAN HIEROGLYPH A335
= syllabic zá

1296B  ANATOLIAN HIEROGLYPH A336
= annus, pithos.scutella
= syllabic zì

1296C  ANATOLIAN HIEROGLYPH A336A
= syllabic zà

1296D  ANATOLIAN HIEROGLYPH A337
= pithos

1296E  ANATOLIAN HIEROGLYPH A338
= culter

1296F  ANATOLIAN HIEROGLYPH A339
→ 12957  anatolian hieroglyph a319

12970 𐎗 ANATOLIAN HIEROGLYPH A340
= annus.annus

12971 𐎘 ANATOLIAN HIEROGLYPH A341
= vas

12972 𐎙 ANATOLIAN HIEROGLYPH A342
→ 1294B 𐎗 anatolian hieroglyph a307

12973 𐎚 ANATOLIAN HIEROGLYPH A343

12974 𐎛 ANATOLIAN HIEROGLYPH A344
= contractus

12975 𐎜 ANATOLIAN HIEROGLYPH A345
= urceus

12976 𐎝 ANATOLIAN HIEROGLYPH A346
= poculum

12977 𐎞 ANATOLIAN HIEROGLYPH A347
= syllabic hú

12978 𐎟 ANATOLIAN HIEROGLYPH A348
→ 12979 𐎟 anatolian hieroglyph a349

12979 𐎠 ANATOLIAN HIEROGLYPH A349

1297A 𐎡 ANATOLIAN HIEROGLYPH A350

1297B 𐎢 ANATOLIAN HIEROGLYPH A351

1297C 𐎣 ANATOLIAN HIEROGLYPH A352
→ 12975 𐎜 anatolian hieroglyph a345

1297D 𐎤 ANATOLIAN HIEROGLYPH A353
→ 12975 𐎜 anatolian hieroglyph a345

1297E 𐎥 ANATOLIAN HIEROGLYPH A354
→ 12975 𐎜 anatolian hieroglyph a345

1297F 𐎦 ANATOLIAN HIEROGLYPH A355
= sacerdos

12980 𐎧 ANATOLIAN HIEROGLYPH A356

12981 𐎨 ANATOLIAN HIEROGLYPH A357

12982 𐎩 ANATOLIAN HIEROGLYPH A358
= dies

12983 𐎪 ANATOLIAN HIEROGLYPH A359
→ 12982 𐎩 anatolian hieroglyph a358

12984 𐎫 ANATOLIAN HIEROGLYPH A359A

H. Symbols

12985 𐎬 ANATOLIAN HIEROGLYPH A360
= deus

12986 𐎭 ANATOLIAN HIEROGLYPH A361

12987 𐎮 ANATOLIAN HIEROGLYPH A362
= syllabic má

12988 𐎯 ANATOLIAN HIEROGLYPH A363
= magnus
= syllabic ur

12989 𐎰 ANATOLIAN HIEROGLYPH A364
= syllabic u
→ 12874 𐎰 anatolian hieroglyph a105

1298A 𐎱 ANATOLIAN HIEROGLYPH A364A
= syllabic mu
→ 12877 𐎱 anatolian hieroglyph a107

1298B 𐎲 ANATOLIAN HIEROGLYPH A365

1298C 𐎳 ANATOLIAN HIEROGLYPH A366
= omnis

1298D 𐎴 ANATOLIAN HIEROGLYPH A367
= syllabic tal

1298E 𐎵 ANATOLIAN HIEROGLYPH A368
= malus

1298F 𐎶 ANATOLIAN HIEROGLYPH A368A
= malus2

12990 𐎷 ANATOLIAN HIEROGLYPH A369
= vita

12991 𐎸 ANATOLIAN HIEROGLYPH A370
= bonus2
= syllabic su

12992 𐎹 ANATOLIAN HIEROGLYPH A371
= iustitia, iudex

12993 𐎺 ANATOLIAN HIEROGLYPH A372
= sacerdos2

12994 𐎻 ANATOLIAN HIEROGLYPH A373

12995 𐎼 ANATOLIAN HIEROGLYPH A374

12996 𐎽 ANATOLIAN HIEROGLYPH A375

12997 𐎾 ANATOLIAN HIEROGLYPH A376
= syllabic zi

12998 𐎿 ANATOLIAN HIEROGLYPH A377
= syllabic za

12999 𐏀 ANATOLIAN HIEROGLYPH A378
= lituus

1299A 𐏁 ANATOLIAN HIEROGLYPH A379
= occidens
= syllabic tà

J. Lines, numbers, and geometric shapes

1299B 𐏂 ANATOLIAN HIEROGLYPH A380 ONE
= unus
= syllabic sa8

1299C 𐏃 ANATOLIAN HIEROGLYPH A381
= minus

1299D 𐏄 ANATOLIAN HIEROGLYPH A381A
= mori, vir2.minus

1299E 𐏅 ANATOLIAN HIEROGLYPH A382
= lignum

1299F 𐏆 ANATOLIAN HIEROGLYPH A383 COMBINING RA
OR RI

129A0 𐏇 ANATOLIAN HIEROGLYPH A384 TWO

129A1 𐏈 ANATOLIAN HIEROGLYPH A385 TWO2

129A2 𐏉 ANATOLIAN HIEROGLYPH A386
= vir2
= word divider

129A3 𐏊 ANATOLIAN HIEROGLYPH A386A
= vir2a

129A4 𐏋 ANATOLIAN HIEROGLYPH A387
= servus
= syllabic mi

129A5 𐏌 ANATOLIAN HIEROGLYPH A388 THREE
= tara/i

129A6 𐏍 ANATOLIAN HIEROGLYPH A389
= tara/i

129A7 𐏎 ANATOLIAN HIEROGLYPH A390
= dominus

129A8 𐏏 ANATOLIAN HIEROGLYPH A391 FOUR
= syllabic mi

129A9 𐏐 ANATOLIAN HIEROGLYPH A392 FIVE

129AA 𐏑 ANATOLIAN HIEROGLYPH A393 EIGHT

129AB 𐏒 ANATOLIAN HIEROGLYPH A394

129AC 𐏓 ANATOLIAN HIEROGLYPH A395 NINE
= syllabic nú

129AD 𐏔 ANATOLIAN HIEROGLYPH A396




































129AE 𐏕 ANATOLIAN HIEROGLYPH A397 TEN
= decem

129AF 𐏖 ANATOLIAN HIEROGLYPH A398


















- 129B0 ☒ ANATOLIAN HIEROGLYPH A399 HUNDRED
= centum
- 129B1 ☉ ANATOLIAN HIEROGLYPH A400 THOUSAND
= mille
- 129B2 ☽ ANATOLIAN HIEROGLYPH A401
→ 12A00 ☽ anatolian hieroglyph a477
- 129B3 ☉ ANATOLIAN HIEROGLYPH A402
= scutella
= syllabic sa4
- 129B4 ☉ ANATOLIAN HIEROGLYPH A403
- 129B5 ☉ ANATOLIAN HIEROGLYPH A404
= animal
- 129B6 ☉ ANATOLIAN HIEROGLYPH A405
- 129B7 ☉ ANATOLIAN HIEROGLYPH A406
- 129B8 ☉ ANATOLIAN HIEROGLYPH A407
- 129B9 ☉ ANATOLIAN HIEROGLYPH A408
→ 12855 ☉ anatolian hieroglyph a079
- 129BA ☉ ANATOLIAN HIEROGLYPH A409
- 129BB ☉ ANATOLIAN HIEROGLYPH A410 BEGIN
LOGOGRAM MARK
- 129BC ☉ ANATOLIAN HIEROGLYPH A410A END
LOGOGRAM MARK
- 129BD ☉ ANATOLIAN HIEROGLYPH A411
= syllabic ni
- 129BE ☉ ANATOLIAN HIEROGLYPH A412
= syllabic ru
- 129BF ☉ ANATOLIAN HIEROGLYPH A413
= syllabic hi
- 129C0 ☉ ANATOLIAN HIEROGLYPH A414
- 129C1 ☉ ANATOLIAN HIEROGLYPH A415
= syllabic sa
- 129C2 ☉ ANATOLIAN HIEROGLYPH A416
→ 12957 ☉ anatolian hieroglyph a319
- 129C3 ☉ ANATOLIAN HIEROGLYPH A417
= syllabic sa-x
- 129C4 ☉ ANATOLIAN HIEROGLYPH A418
- 129C5 ☉ ANATOLIAN HIEROGLYPH A419
= syllabic mí
- 129C6 ☉ ANATOLIAN HIEROGLYPH A420
→ 129C5 ☉ anatolian hieroglyph a419
- 129C7 ☉ ANATOLIAN HIEROGLYPH A421
= syllabic us
- 129C8 ☉ ANATOLIAN HIEROGLYPH A422
= panis.scutella
- 129C9 ☉ ANATOLIAN HIEROGLYPH A423
= syllabic ku
- 129CA ☉ ANATOLIAN HIEROGLYPH A424
- 129CB ☉ ANATOLIAN HIEROGLYPH A425
- 129CC ☉ ANATOLIAN HIEROGLYPH A426
- 129CD ☉ ANATOLIAN HIEROGLYPH A427
- 129CE ☉ ANATOLIAN HIEROGLYPH A428
- 129CF ☉ ANATOLIAN HIEROGLYPH A429
= syllabic tana
- 129D0 ☉ ANATOLIAN HIEROGLYPH A430
= omnis2
= syllabic pú
- 129D1 ☉ ANATOLIAN HIEROGLYPH A431
- 129D2 ☉ ANATOLIAN HIEROGLYPH A432
= syllabic zu?

K. Varia

- 129D3 ☉ ANATOLIAN HIEROGLYPH A433
= syllabic sá
- 129D4 ☉ ANATOLIAN HIEROGLYPH A434
= syllabic ka
- 129D5 ☉ ANATOLIAN HIEROGLYPH A435
= syllabic a-x
- 129D6 ☉ ANATOLIAN HIEROGLYPH A436
- 129D7 ☉ ANATOLIAN HIEROGLYPH A437
- 129D8 ☉ ANATOLIAN HIEROGLYPH A438
= pastor
- 129D9 ☉ ANATOLIAN HIEROGLYPH A439
= syllabic wa/i
- 129DA ☉ ANATOLIAN HIEROGLYPH A440
- 129DB ☉ ANATOLIAN HIEROGLYPH A441
- 129DC ☉ ANATOLIAN HIEROGLYPH A442
- 129DD ☉ ANATOLIAN HIEROGLYPH A443
- 129DE ☉ ANATOLIAN HIEROGLYPH A444
→ 12808 ☉ anatolian hieroglyph a009
- 129DF ☉ ANATOLIAN HIEROGLYPH A445
= syllabic la, li, lu
- 129E0 ☉ ANATOLIAN HIEROGLYPH A446
= syllabic ki
- 129E1 ☉ ANATOLIAN HIEROGLYPH A447
= versus
= syllabic ni-x
- 129E2 ☉ ANATOLIAN HIEROGLYPH A448
= syllabic sù, zù?
- 129E3 ☉ ANATOLIAN HIEROGLYPH A449
- 129E4 ☉ ANATOLIAN HIEROGLYPH A450
= syllabic a
= end of a word
- 129E5 ☉ ANATOLIAN HIEROGLYPH A451
= syllabic hur
- 129E6 ☉ ANATOLIAN HIEROGLYPH A452
- 129E7 ☉ ANATOLIAN HIEROGLYPH A453
→ 128C3 ☉ anatolian hieroglyph a179
- 129E8 ☉ ANATOLIAN HIEROGLYPH A454
→ 128C3 ☉ anatolian hieroglyph a179
- 129E9 ☉ ANATOLIAN HIEROGLYPH A455
= syllabic la-x
- 129EA ☉ ANATOLIAN HIEROGLYPH A456
= syllabic sí?
- 129EB ☉ ANATOLIAN HIEROGLYPH A457
→ 1288C ☉ anatolian hieroglyph a125
- 129EC ☉ ANATOLIAN HIEROGLYPH A457A
- 129ED ☉ ANATOLIAN HIEROGLYPH A458
- 129EE ☉ ANATOLIAN HIEROGLYPH A459
- 129EF ☉ ANATOLIAN HIEROGLYPH A460
- 129F0 ☉ ANATOLIAN HIEROGLYPH A461
- 129F1 ☉ ANATOLIAN HIEROGLYPH A462
= syllabic pá? ma-x?
- 129F2 ☉ ANATOLIAN HIEROGLYPH A463
- 129F3 ☉ ANATOLIAN HIEROGLYPH A464
- 129F4 ☉ ANATOLIAN HIEROGLYPH A465
→ 128CF ☉ anatolian hieroglyph a191
- 129F5 ☉ ANATOLIAN HIEROGLYPH A466
- 129F6 ☉ ANATOLIAN HIEROGLYPH A467
→ 128CF ☉ anatolian hieroglyph a191

- 129F7  ANATOLIAN HIEROGLYPH A468
→ 129F8  anatolian hieroglyph a469
- 129F8  ANATOLIAN HIEROGLYPH A469
- 129F9  ANATOLIAN HIEROGLYPH A470 TWELVE
- 129FA  ANATOLIAN HIEROGLYPH A471
- 129FB  ANATOLIAN HIEROGLYPH A472
- 129FC  ANATOLIAN HIEROGLYPH A473
→ 129FD  anatolian hieroglyph a474
- 129FD  ANATOLIAN HIEROGLYPH A474
= eunuchus
→ 12913  anatolian hieroglyph a254
- 129FE  ANATOLIAN HIEROGLYPH A475
- 129FF  ANATOLIAN HIEROGLYPH A476
- 12A00  ANATOLIAN HIEROGLYPH A477
= flammae
- 12A01  ANATOLIAN HIEROGLYPH A478
- 12A02  ANATOLIAN HIEROGLYPH A479
→ 12A00  anatolian hieroglyph a477
- 12A03  ANATOLIAN HIEROGLYPH A480
- 12A04  ANATOLIAN HIEROGLYPH A481
- 12A05  ANATOLIAN HIEROGLYPH A482
- 12A06  ANATOLIAN HIEROGLYPH A483
- 12A07  ANATOLIAN HIEROGLYPH A484
- 12A08  ANATOLIAN HIEROGLYPH A485
- 12A09  ANATOLIAN HIEROGLYPH A486
= falx
- 12A0A  ANATOLIAN HIEROGLYPH A487
→ 12800  anatolian hieroglyph a001
- 12A0B  ANATOLIAN HIEROGLYPH A488
= syllabic tí
- 12A0C  ANATOLIAN HIEROGLYPH A489
- 12A0D  ANATOLIAN HIEROGLYPH A490
- 12A0E  ANATOLIAN HIEROGLYPH A491
- 12A0F  ANATOLIAN HIEROGLYPH A492
- 12A10  ANATOLIAN HIEROGLYPH A493
- 12A11  ANATOLIAN HIEROGLYPH A494
- 12A12  ANATOLIAN HIEROGLYPH A495
- 12A13  ANATOLIAN HIEROGLYPH A496
- 12A14  ANATOLIAN HIEROGLYPH A497

M. Additional signs

- 12A15  ANATOLIAN HIEROGLYPH A501
- 12A16  ANATOLIAN HIEROGLYPH A502
- 12A17  ANATOLIAN HIEROGLYPH A503
- 12A18  ANATOLIAN HIEROGLYPH A504
- 12A19  ANATOLIAN HIEROGLYPH A505
- 12A1A  ANATOLIAN HIEROGLYPH A506
= syllabic hana
- 12A1B  ANATOLIAN HIEROGLYPH A507
- 12A1C  ANATOLIAN HIEROGLYPH A508
= syllabic hwi/a
- 12A1D  ANATOLIAN HIEROGLYPH A509
- 12A1E  ANATOLIAN HIEROGLYPH A510
- 12A1F  ANATOLIAN HIEROGLYPH A511
- 12A20  ANATOLIAN HIEROGLYPH A512
- 12A21  ANATOLIAN HIEROGLYPH A513
- 12A22  ANATOLIAN HIEROGLYPH A514
- 12A23  ANATOLIAN HIEROGLYPH A515
- 12A24  ANATOLIAN HIEROGLYPH A516
- 12A25  ANATOLIAN HIEROGLYPH A517