

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
Status: Liaison Contribution
Action: For consideration by JTC1/SC2/WG2 and UTC
Date: 2007-05-01

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+129A3  ANATOLIAN HIEROGLYPH A386 or its variant U+129A4  ANATOLIAN HIEROGLYPH A386A. To mark logograms, the characters U+129BC  ANATOLIAN HIEROGLYPH A410 and U+129BD  ANATOLIAN HIEROGLYPH A410A are optionally used, flanking the logogram as in   ‘wood’; see Figure 2. The characters U+129E5  ANATOLIAN HIEROGLYPH A450 (which occurs very frequently) and U+128E4  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+129A0  ANATOLIAN HIEROGLYPH COMBINING MARK A383 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 (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 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 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 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  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  BOS.MI) and the plus sign indicates that the elements form a graphic unit (as in  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 A314.

5.5 Cross-references in the names list. The cross references indicate the relationship of variant characters to the main character, such as U+12803  ANATOLIAN HIEROGLYPH A004 > U+128E1  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

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. 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.

Unicode Character Properties

12800;ANATOLIAN	HIEROGLYPH	A001;Lo;0;L; ; ; ; ;N; ; ; ;	1283E;ANATOLIAN	HIEROGLYPH	A058;Lo;0;L; ; ; ; ;N; ; ; ;
12801;ANATOLIAN	HIEROGLYPH	A002;Lo;0;L; ; ; ; ;N; ; ; ;	1283F;ANATOLIAN	HIEROGLYPH	A059;Lo;0;L; ; ; ; ;N; ; ; ;
12802;ANATOLIAN	HIEROGLYPH	A003;Lo;0;L; ; ; ; ;N; ; ; ;	12840;ANATOLIAN	HIEROGLYPH	A060;Lo;0;L; ; ; ; ;N; ; ; ;
12803;ANATOLIAN	HIEROGLYPH	A004;Lo;0;L; ; ; ; ;N; ; ; ;	12841;ANATOLIAN	HIEROGLYPH	A061;Lo;0;L; ; ; ; ;N; ; ; ;
12804;ANATOLIAN	HIEROGLYPH	A005;Lo;0;L; ; ; ; ;N; ; ; ;	12842;ANATOLIAN	HIEROGLYPH	A062;Lo;0;L; ; ; ; ;N; ; ; ;
12805;ANATOLIAN	HIEROGLYPH	A006;Lo;0;L; ; ; ; ;N; ; ; ;	12843;ANATOLIAN	HIEROGLYPH	A063;Lo;0;L; ; ; ; ;N; ; ; ;
12806;ANATOLIAN	HIEROGLYPH	A007;Lo;0;L; ; ; ; ;N; ; ; ;	12844;ANATOLIAN	HIEROGLYPH	A064;Lo;0;L; ; ; ; ;N; ; ; ;
12807;ANATOLIAN	HIEROGLYPH	A008;Lo;0;L; ; ; ; ;N; ; ; ;	12845;ANATOLIAN	HIEROGLYPH	A065;Lo;0;L; ; ; ; ;N; ; ; ;
12808;ANATOLIAN	HIEROGLYPH	A009;Lo;0;L; ; ; ; ;N; ; ; ;	12846;ANATOLIAN	HIEROGLYPH	A066;Lo;0;L; ; ; ; ;N; ; ; ;
12809;ANATOLIAN	HIEROGLYPH	A010;Lo;0;L; ; ; ; ;N; ; ; ;	12847;ANATOLIAN	HIEROGLYPH	A066A;Lo;0;L; ; ; ; ;N; ; ; ;
1280A;ANATOLIAN	HIEROGLYPH	A010A;Lo;0;L; ; ; ; ;N; ; ; ;	12848;ANATOLIAN	HIEROGLYPH	A066B;Lo;0;L; ; ; ; ;N; ; ; ;
1280B;ANATOLIAN	HIEROGLYPH	A011;Lo;0;L; ; ; ; ;N; ; ; ;	12849;ANATOLIAN	HIEROGLYPH	A067;Lo;0;L; ; ; ; ;N; ; ; ;
1280C;ANATOLIAN	HIEROGLYPH	A012;Lo;0;L; ; ; ; ;N; ; ; ;	1284A;ANATOLIAN	HIEROGLYPH	A068;Lo;0;L; ; ; ; ;N; ; ; ;
1280D;ANATOLIAN	HIEROGLYPH	A013;Lo;0;L; ; ; ; ;N; ; ; ;	1284B;ANATOLIAN	HIEROGLYPH	A069;Lo;0;L; ; ; ; ;N; ; ; ;
1280E;ANATOLIAN	HIEROGLYPH	A014;Lo;0;L; ; ; ; ;N; ; ; ;	1284C;ANATOLIAN	HIEROGLYPH	A070;Lo;0;L; ; ; ; ;N; ; ; ;
1280F;ANATOLIAN	HIEROGLYPH	A015;Lo;0;L; ; ; ; ;N; ; ; ;	1284D;ANATOLIAN	HIEROGLYPH	A071;Lo;0;L; ; ; ; ;N; ; ; ;
12810;ANATOLIAN	HIEROGLYPH	A016;Lo;0;L; ; ; ; ;N; ; ; ;	1284E;ANATOLIAN	HIEROGLYPH	A072;Lo;0;L; ; ; ; ;N; ; ; ;
12811;ANATOLIAN	HIEROGLYPH	A017;Lo;0;L; ; ; ; ;N; ; ; ;	1284F;ANATOLIAN	HIEROGLYPH	A073;Lo;0;L; ; ; ; ;N; ; ; ;
12812;ANATOLIAN	HIEROGLYPH	A018;Lo;0;L; ; ; ; ;N; ; ; ;	12850;ANATOLIAN	HIEROGLYPH	A074;Lo;0;L; ; ; ; ;N; ; ; ;
12813;ANATOLIAN	HIEROGLYPH	A019;Lo;0;L; ; ; ; ;N; ; ; ;	12851;ANATOLIAN	HIEROGLYPH	A075;Lo;0;L; ; ; ; ;N; ; ; ;
12814;ANATOLIAN	HIEROGLYPH	A020;Lo;0;L; ; ; ; ;N; ; ; ;	12852;ANATOLIAN	HIEROGLYPH	A076;Lo;0;L; ; ; ; ;N; ; ; ;
12815;ANATOLIAN	HIEROGLYPH	A021;Lo;0;L; ; ; ; ;N; ; ; ;	12853;ANATOLIAN	HIEROGLYPH	A077;Lo;0;L; ; ; ; ;N; ; ; ;
12816;ANATOLIAN	HIEROGLYPH	A022;Lo;0;L; ; ; ; ;N; ; ; ;	12854;ANATOLIAN	HIEROGLYPH	A078;Lo;0;L; ; ; ; ;N; ; ; ;
12817;ANATOLIAN	HIEROGLYPH	A023;Lo;0;L; ; ; ; ;N; ; ; ;	12855;ANATOLIAN	HIEROGLYPH	A079;Lo;0;L; ; ; ; ;N; ; ; ;
12818;ANATOLIAN	HIEROGLYPH	A024;Lo;0;L; ; ; ; ;N; ; ; ;	12856;ANATOLIAN	HIEROGLYPH	A080;Lo;0;L; ; ; ; ;N; ; ; ;
12819;ANATOLIAN	HIEROGLYPH	A025;Lo;0;L; ; ; ; ;N; ; ; ;	12857;ANATOLIAN	HIEROGLYPH	A081;Lo;0;L; ; ; ; ;N; ; ; ;
1281A;ANATOLIAN	HIEROGLYPH	A026;Lo;0;L; ; ; ; ;N; ; ; ;	12858;ANATOLIAN	HIEROGLYPH	A082;Lo;0;L; ; ; ; ;N; ; ; ;
1281B;ANATOLIAN	HIEROGLYPH	A027;Lo;0;L; ; ; ; ;N; ; ; ;	12859;ANATOLIAN	HIEROGLYPH	A083;Lo;0;L; ; ; ; ;N; ; ; ;
1281C;ANATOLIAN	HIEROGLYPH	A028;Lo;0;L; ; ; ; ;N; ; ; ;	1285A;ANATOLIAN	HIEROGLYPH	A084;Lo;0;L; ; ; ; ;N; ; ; ;
1281D;ANATOLIAN	HIEROGLYPH	A029;Lo;0;L; ; ; ; ;N; ; ; ;	1285B;ANATOLIAN	HIEROGLYPH	A085;Lo;0;L; ; ; ; ;N; ; ; ;
1281E;ANATOLIAN	HIEROGLYPH	A030;Lo;0;L; ; ; ; ;N; ; ; ;	1285C;ANATOLIAN	HIEROGLYPH	A086;Lo;0;L; ; ; ; ;N; ; ; ;
1281F;ANATOLIAN	HIEROGLYPH	A031;Lo;0;L; ; ; ; ;N; ; ; ;	1285D;ANATOLIAN	HIEROGLYPH	A087;Lo;0;L; ; ; ; ;N; ; ; ;
12820;ANATOLIAN	HIEROGLYPH	A032;Lo;0;L; ; ; ; ;N; ; ; ;	1285E;ANATOLIAN	HIEROGLYPH	A088;Lo;0;L; ; ; ; ;N; ; ; ;
12821;ANATOLIAN	HIEROGLYPH	A033;Lo;0;L; ; ; ; ;N; ; ; ;	1285F;ANATOLIAN	HIEROGLYPH	A089;Lo;0;L; ; ; ; ;N; ; ; ;
12822;ANATOLIAN	HIEROGLYPH	A034;Lo;0;L; ; ; ; ;N; ; ; ;	12860;ANATOLIAN	HIEROGLYPH	A090;Lo;0;L; ; ; ; ;N; ; ; ;
12823;ANATOLIAN	HIEROGLYPH	A035;Lo;0;L; ; ; ; ;N; ; ; ;	12861;ANATOLIAN	HIEROGLYPH	A091;Lo;0;L; ; ; ; ;N; ; ; ;
12824;ANATOLIAN	HIEROGLYPH	A036;Lo;0;L; ; ; ; ;N; ; ; ;	12862;ANATOLIAN	HIEROGLYPH	A092;Lo;0;L; ; ; ; ;N; ; ; ;
12825;ANATOLIAN	HIEROGLYPH	A037;Lo;0;L; ; ; ; ;N; ; ; ;	12863;ANATOLIAN	HIEROGLYPH	A093;Lo;0;L; ; ; ; ;N; ; ; ;
12826;ANATOLIAN	HIEROGLYPH	A038;Lo;0;L; ; ; ; ;N; ; ; ;	12864;ANATOLIAN	HIEROGLYPH	A094;Lo;0;L; ; ; ; ;N; ; ; ;
12827;ANATOLIAN	HIEROGLYPH	A039;Lo;0;L; ; ; ; ;N; ; ; ;	12865;ANATOLIAN	HIEROGLYPH	A095;Lo;0;L; ; ; ; ;N; ; ; ;
12828;ANATOLIAN	HIEROGLYPH	A039A;Lo;0;L; ; ; ; ;N; ; ; ;	12866;ANATOLIAN	HIEROGLYPH	A096;Lo;0;L; ; ; ; ;N; ; ; ;
12829;ANATOLIAN	HIEROGLYPH	A040;Lo;0;L; ; ; ; ;N; ; ; ;	12867;ANATOLIAN	HIEROGLYPH	A097;Lo;0;L; ; ; ; ;N; ; ; ;
1282A;ANATOLIAN	HIEROGLYPH	A041;Lo;0;L; ; ; ; ;N; ; ; ;	12868;ANATOLIAN	HIEROGLYPH	A097A;Lo;0;L; ; ; ; ;N; ; ; ;
1282B;ANATOLIAN	HIEROGLYPH	A042;Lo;0;L; ; ; ; ;N; ; ; ;	12869;ANATOLIAN	HIEROGLYPH	A098;Lo;0;L; ; ; ; ;N; ; ; ;
1282C;ANATOLIAN	HIEROGLYPH	A043;Lo;0;L; ; ; ; ;N; ; ; ;	1286A;ANATOLIAN	HIEROGLYPH	A098A;Lo;0;L; ; ; ; ;N; ; ; ;
1282D;ANATOLIAN	HIEROGLYPH	A044;Lo;0;L; ; ; ; ;N; ; ; ;	1286B;ANATOLIAN	HIEROGLYPH	A099;Lo;0;L; ; ; ; ;N; ; ; ;
1282E;ANATOLIAN	HIEROGLYPH	A045;Lo;0;L; ; ; ; ;N; ; ; ;	1286C;ANATOLIAN	HIEROGLYPH	A100;Lo;0;L; ; ; ; ;N; ; ; ;
1282F;ANATOLIAN	HIEROGLYPH	A045A;Lo;0;L; ; ; ; ;N; ; ; ;	1286D;ANATOLIAN	HIEROGLYPH	A101;Lo;0;L; ; ; ; ;N; ; ; ;
12830;ANATOLIAN	HIEROGLYPH	A046;Lo;0;L; ; ; ; ;N; ; ; ;	1286E;ANATOLIAN	HIEROGLYPH	A102;Lo;0;L; ; ; ; ;N; ; ; ;
12831;ANATOLIAN	HIEROGLYPH	A046A;Lo;0;L; ; ; ; ;N; ; ; ;	1286F;ANATOLIAN	HIEROGLYPH	A102A;Lo;0;L; ; ; ; ;N; ; ; ;
12832;ANATOLIAN	HIEROGLYPH	A046B;Lo;0;L; ; ; ; ;N; ; ; ;	12870;ANATOLIAN	HIEROGLYPH	A103;Lo;0;L; ; ; ; ;N; ; ; ;
12833;ANATOLIAN	HIEROGLYPH	A047;Lo;0;L; ; ; ; ;N; ; ; ;	12871;ANATOLIAN	HIEROGLYPH	A104;Lo;0;L; ; ; ; ;N; ; ; ;
12834;ANATOLIAN	HIEROGLYPH	A048;Lo;0;L; ; ; ; ;N; ; ; ;	12872;ANATOLIAN	HIEROGLYPH	A104A;Lo;0;L; ; ; ; ;N; ; ; ;
12835;ANATOLIAN	HIEROGLYPH	A049;Lo;0;L; ; ; ; ;N; ; ; ;	12873;ANATOLIAN	HIEROGLYPH	A104B;Lo;0;L; ; ; ; ;N; ; ; ;
12836;ANATOLIAN	HIEROGLYPH	A050;Lo;0;L; ; ; ; ;N; ; ; ;	12874;ANATOLIAN	HIEROGLYPH	A105;Lo;0;L; ; ; ; ;N; ; ; ;
12837;ANATOLIAN	HIEROGLYPH	A051;Lo;0;L; ; ; ; ;N; ; ; ;	12875;ANATOLIAN	HIEROGLYPH	A105A;Lo;0;L; ; ; ; ;N; ; ; ;
12838;ANATOLIAN	HIEROGLYPH	A052;Lo;0;L; ; ; ; ;N; ; ; ;	12876;ANATOLIAN	HIEROGLYPH	A106;Lo;0;L; ; ; ; ;N; ; ; ;
12839;ANATOLIAN	HIEROGLYPH	A053;Lo;0;L; ; ; ; ;N; ; ; ;	12877;ANATOLIAN	HIEROGLYPH	A107;Lo;0;L; ; ; ; ;N; ; ; ;
1283A;ANATOLIAN	HIEROGLYPH	A054;Lo;0;L; ; ; ; ;N; ; ; ;	12878;ANATOLIAN	HIEROGLYPH	A107A;Lo;0;L; ; ; ; ;N; ; ; ;
1283B;ANATOLIAN	HIEROGLYPH	A055;Lo;0;L; ; ; ; ;N; ; ; ;	12879;ANATOLIAN	HIEROGLYPH	A107B;Lo;0;L; ; ; ; ;N; ; ; ;
1283C;ANATOLIAN	HIEROGLYPH	A056;Lo;0;L; ; ; ; ;N; ; ; ;	1287A;ANATOLIAN	HIEROGLYPH	A108;Lo;0;L; ; ; ; ;N; ; ; ;
1283D;ANATOLIAN	HIEROGLYPH	A057;Lo;0;L; ; ; ; ;N; ; ; ;	1287B;ANATOLIAN	HIEROGLYPH	A109;Lo;0;L; ; ; ; ;N; ; ; ;

129CB;ANATOLIAN	HIEROGLYPH	A424;Lo;0;L;;;;;N;;;;;	129FD;ANATOLIAN	HIEROGLYPH	A473;Lo;0;L;;;;;N;;;;;
129CC;ANATOLIAN	HIEROGLYPH	A425;Lo;0;L;;;;;N;;;;;	129FE;ANATOLIAN	HIEROGLYPH	A474;Lo;0;L;;;;;N;;;;;
129CD;ANATOLIAN	HIEROGLYPH	A426;Lo;0;L;;;;;N;;;;;	129FF;ANATOLIAN	HIEROGLYPH	A475;Lo;0;L;;;;;N;;;;;
129CE;ANATOLIAN	HIEROGLYPH	A427;Lo;0;L;;;;;N;;;;;	12A00;ANATOLIAN	HIEROGLYPH	A476;Lo;0;L;;;;;N;;;;;
129CF;ANATOLIAN	HIEROGLYPH	A428;Lo;0;L;;;;;N;;;;;	12A01;ANATOLIAN	HIEROGLYPH	A477;Lo;0;L;;;;;N;;;;;
129D0;ANATOLIAN	HIEROGLYPH	A429;Lo;0;L;;;;;N;;;;;	12A02;ANATOLIAN	HIEROGLYPH	A478;Lo;0;L;;;;;N;;;;;
129D1;ANATOLIAN	HIEROGLYPH	A430;Lo;0;L;;;;;N;;;;;	12A03;ANATOLIAN	HIEROGLYPH	A479;Lo;0;L;;;;;N;;;;;
129D2;ANATOLIAN	HIEROGLYPH	A431;Lo;0;L;;;;;N;;;;;	12A04;ANATOLIAN	HIEROGLYPH	A480;Lo;0;L;;;;;N;;;;;
129D3;ANATOLIAN	HIEROGLYPH	A432;Lo;0;L;;;;;N;;;;;	12A05;ANATOLIAN	HIEROGLYPH	A481;Lo;0;L;;;;;N;;;;;
129D4;ANATOLIAN	HIEROGLYPH	A433;Lo;0;L;;;;;N;;;;;	12A06;ANATOLIAN	HIEROGLYPH	A482;Lo;0;L;;;;;N;;;;;
129D5;ANATOLIAN	HIEROGLYPH	A434;Lo;0;L;;;;;N;;;;;	12A07;ANATOLIAN	HIEROGLYPH	A483;Lo;0;L;;;;;N;;;;;
129D6;ANATOLIAN	HIEROGLYPH	A435;Lo;0;L;;;;;N;;;;;	12A08;ANATOLIAN	HIEROGLYPH	A484;Lo;0;L;;;;;N;;;;;
129D7;ANATOLIAN	HIEROGLYPH	A436;Lo;0;L;;;;;N;;;;;	12A09;ANATOLIAN	HIEROGLYPH	A485;Lo;0;L;;;;;N;;;;;
129D8;ANATOLIAN	HIEROGLYPH	A437;Lo;0;L;;;;;N;;;;;	12A0A;ANATOLIAN	HIEROGLYPH	A486;Lo;0;L;;;;;N;;;;;
129D9;ANATOLIAN	HIEROGLYPH	A438;Lo;0;L;;;;;N;;;;;	12A0B;ANATOLIAN	HIEROGLYPH	A487;Lo;0;L;;;;;N;;;;;
129DA;ANATOLIAN	HIEROGLYPH	A439;Lo;0;L;;;;;N;;;;;	12A0C;ANATOLIAN	HIEROGLYPH	A488;Lo;0;L;;;;;N;;;;;
129DB;ANATOLIAN	HIEROGLYPH	A440;Lo;0;L;;;;;N;;;;;	12A0D;ANATOLIAN	HIEROGLYPH	A489;Lo;0;L;;;;;N;;;;;
129DC;ANATOLIAN	HIEROGLYPH	A441;Lo;0;L;;;;;N;;;;;	12A0E;ANATOLIAN	HIEROGLYPH	A490;Lo;0;L;;;;;N;;;;;
129DD;ANATOLIAN	HIEROGLYPH	A442;Lo;0;L;;;;;N;;;;;	12A0F;ANATOLIAN	HIEROGLYPH	A491;Lo;0;L;;;;;N;;;;;
129DE;ANATOLIAN	HIEROGLYPH	A443;Lo;0;L;;;;;N;;;;;	12A10;ANATOLIAN	HIEROGLYPH	A492;Lo;0;L;;;;;N;;;;;
129DF;ANATOLIAN	HIEROGLYPH	A444;Lo;0;L;;;;;N;;;;;	12A11;ANATOLIAN	HIEROGLYPH	A493;Lo;0;L;;;;;N;;;;;
129E0;ANATOLIAN	HIEROGLYPH	A445;Lo;0;L;;;;;N;;;;;	12A12;ANATOLIAN	HIEROGLYPH	A494;Lo;0;L;;;;;N;;;;;
129E1;ANATOLIAN	HIEROGLYPH	A446;Lo;0;L;;;;;N;;;;;	12A13;ANATOLIAN	HIEROGLYPH	A495;Lo;0;L;;;;;N;;;;;
129E2;ANATOLIAN	HIEROGLYPH	A447;Lo;0;L;;;;;N;;;;;	12A14;ANATOLIAN	HIEROGLYPH	A496;Lo;0;L;;;;;N;;;;;
129E3;ANATOLIAN	HIEROGLYPH	A448;Lo;0;L;;;;;N;;;;;	12A15;ANATOLIAN	HIEROGLYPH	A497;Lo;0;L;;;;;N;;;;;
129E4;ANATOLIAN	HIEROGLYPH	A449;Lo;0;L;;;;;N;;;;;	12A16;ANATOLIAN	HIEROGLYPH	A501;Lo;0;L;;;;;N;;;;;
129E5;ANATOLIAN	HIEROGLYPH	A450;Lo;0;L;;;;;N;;;;;	12A17;ANATOLIAN	HIEROGLYPH	A502;Lo;0;L;;;;;N;;;;;
129E6;ANATOLIAN	HIEROGLYPH	A451;Lo;0;L;;;;;N;;;;;	12A18;ANATOLIAN	HIEROGLYPH	A503;Lo;0;L;;;;;N;;;;;
129E7;ANATOLIAN	HIEROGLYPH	A452;Lo;0;L;;;;;N;;;;;	12A19;ANATOLIAN	HIEROGLYPH	A504;Lo;0;L;;;;;N;;;;;
129E8;ANATOLIAN	HIEROGLYPH	A453;Lo;0;L;;;;;N;;;;;	12A1A;ANATOLIAN	HIEROGLYPH	A505;Lo;0;L;;;;;N;;;;;
129E9;ANATOLIAN	HIEROGLYPH	A454;Lo;0;L;;;;;N;;;;;	12A1B;ANATOLIAN	HIEROGLYPH	A506;Lo;0;L;;;;;N;;;;;
129EA;ANATOLIAN	HIEROGLYPH	A455;Lo;0;L;;;;;N;;;;;	12A1C;ANATOLIAN	HIEROGLYPH	A507;Lo;0;L;;;;;N;;;;;
129EB;ANATOLIAN	HIEROGLYPH	A456;Lo;0;L;;;;;N;;;;;	12A1D;ANATOLIAN	HIEROGLYPH	A508;Lo;0;L;;;;;N;;;;;
129EC;ANATOLIAN	HIEROGLYPH	A457;Lo;0;L;;;;;N;;;;;	12A1E;ANATOLIAN	HIEROGLYPH	A509;Lo;0;L;;;;;N;;;;;
129ED;ANATOLIAN	HIEROGLYPH	A457A;Lo;0;L;;;;;N;;;;;	12A1F;ANATOLIAN	HIEROGLYPH	A510;Lo;0;L;;;;;N;;;;;
129EE;ANATOLIAN	HIEROGLYPH	A458;Lo;0;L;;;;;N;;;;;	12A20;ANATOLIAN	HIEROGLYPH	A511;Lo;0;L;;;;;N;;;;;
129EF;ANATOLIAN	HIEROGLYPH	A459;Lo;0;L;;;;;N;;;;;	12A21;ANATOLIAN	HIEROGLYPH	A512;Lo;0;L;;;;;N;;;;;
129F0;ANATOLIAN	HIEROGLYPH	A460;Lo;0;L;;;;;N;;;;;	12A22;ANATOLIAN	HIEROGLYPH	A513;Lo;0;L;;;;;N;;;;;
129F1;ANATOLIAN	HIEROGLYPH	A461;Lo;0;L;;;;;N;;;;;	12A23;ANATOLIAN	HIEROGLYPH	A514;Lo;0;L;;;;;N;;;;;
129F2;ANATOLIAN	HIEROGLYPH	A462;Lo;0;L;;;;;N;;;;;	12A24;ANATOLIAN	HIEROGLYPH	A515;Lo;0;L;;;;;N;;;;;
129F3;ANATOLIAN	HIEROGLYPH	A463;Lo;0;L;;;;;N;;;;;	12A25;ANATOLIAN	HIEROGLYPH	A516;Lo;0;L;;;;;N;;;;;
129F4;ANATOLIAN	HIEROGLYPH	A464;Lo;0;L;;;;;N;;;;;	12A26;ANATOLIAN	HIEROGLYPH	A517;Lo;0;L;;;;;N;;;;;
129F5;ANATOLIAN	HIEROGLYPH	A465;Lo;0;L;;;;;N;;;;;	12A27;ANATOLIAN	HIEROGLYPH	A518;Lo;0;L;;;;;N;;;;;
129F6;ANATOLIAN	HIEROGLYPH	A466;Lo;0;L;;;;;N;;;;;	12A28;ANATOLIAN	HIEROGLYPH	A519;Lo;0;L;;;;;N;;;;;
129F7;ANATOLIAN	HIEROGLYPH	A467;Lo;0;L;;;;;N;;;;;	12A29;ANATOLIAN	HIEROGLYPH	A520;Lo;0;L;;;;;N;;;;;
129F8;ANATOLIAN	HIEROGLYPH	A468;Lo;0;L;;;;;N;;;;;	12A2A;ANATOLIAN	HIEROGLYPH	A521;Lo;0;L;;;;;N;;;;;
129F9;ANATOLIAN	HIEROGLYPH	A469;Lo;0;L;;;;;N;;;;;	12A2B;ANATOLIAN	HIEROGLYPH	A522;Lo;0;L;;;;;N;;;;;
129FA;ANATOLIAN	HIEROGLYPH	A470;N1;0;L;;;;;12;N;;;;;	12A2C;ANATOLIAN	HIEROGLYPH	A523;Lo;0;L;;;;;N;;;;;
129FB;ANATOLIAN	HIEROGLYPH	A471;Lo;0;L;;;;;N;;;;;	12A2D;ANATOLIAN	HIEROGLYPH	A524;Lo;0;L;;;;;N;;;;;
129FC;ANATOLIAN	HIEROGLYPH	A472;Lo;0;L;;;;;N;;;;;			

Bibliography

- Hawkins, John David. 2003. "Scripts and Texts" in *The Luwians*, ed. H. Craig Melchert. (Handbook of Oriental Studies, Section 1: The Near and Middle East, vol. 68). Leiden: Brill.
- Hawkins, John David, and Halet Çambel. 2000. *Corpus of hieroglyphic Luwian inscriptions*. Berlin & New York: Walter de Gruyter. ISBN 3-11-010864-X
- Herbordt, Suzanne. 2005. *Die Prinzen- und Beamtsiegel der hethitischen Grossreichszeit auf Tonbullen aus dem Nişantepe-Archiv in Hattusa*. Mit Kommentaren zu den Siegelinschriften und Hieroglyphen von J. David Hawkins. Mainz am Rhein: Verlag Philipp von Zabern. ISBN: 3-8053-3311-0
- Laroche, Emmanuel. 1960. *Les hiéroglyphes hittites. Première partie: L'écriture*. Paris: Éditions du Centre National de la Recherche Scientifique.
- Marazzi, Massimiliano, Natalia Bolatti-Guzzo, & Paola Dardano. 1998. *Il geroglifico Anatolico: sviluppi della ricerca a venti anni dalla sua "ridecifrazione". Atti del Colloquio e della tavola rotonda Napoli-Procida, 5-9 giugno 1995*. (Istituto Universitario Orientale, Dipartimento di Studi Asiatici, Series Minor; 57) Napoli: Istituto Universitario Orientale.
- Melchert, H. Craig. 1996. "Anatolian Hieroglyphs" in *The World's Writing Systems*, ed. Peter T. Daniels & William Bright. New York; Oxford: Oxford University Press. ISBN 0-19-507993-0
- Meriggi, Piero. 1962. *Hieroglyphisch-hethitisches Glossar*. Zweite, völlig umgearbeitete Auflage. Wiesbaden: Otto Harrassowitz.
- Payne, Annick. 2004. *Hieroglyphic Luwian*. (Elementa Linguarum Orientis; 3) Wiesbaden: Harrassowitz. ISBN 3-447-05026-8

Acknowledgements

This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley).

Figures

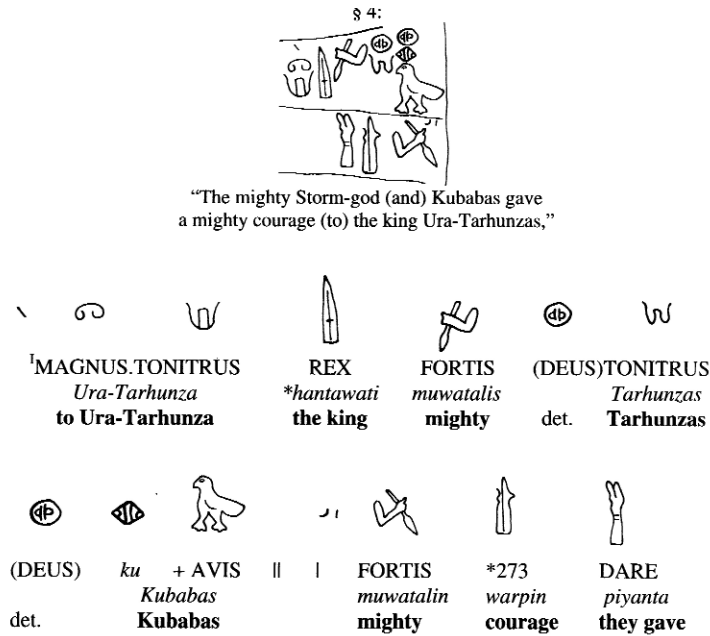


Figure 1. Sample of Luwian text from Payne 2004. Set as a sentence in a modern font it reads:

∩∞∩ ∆ ∞ ⊕∞∩ ⊕∩∩ ∩ ∞ ∩ ∩. Set as in the inscription it reads: ∩∞∩ ∆ ∞ ⊕∞∩ ⊕∩∩ ∩ ∞ ∩ ∩

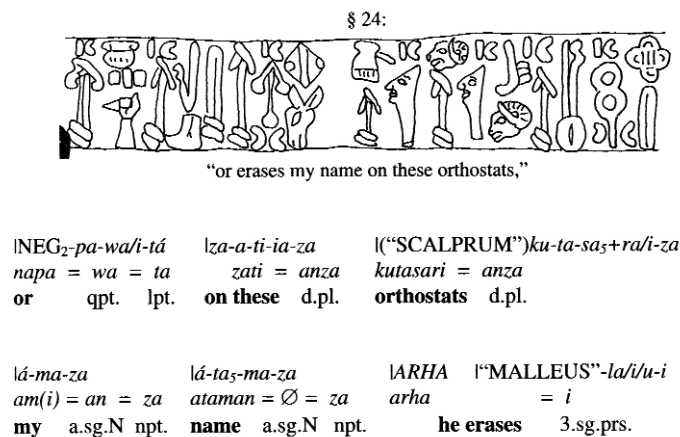


Figure 2. Sample of Luwian text from Payne 2004, showing the logogram marks in two different configurations: ∩ ‘chisel’, ∩ ‘hammer’.






















*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 (<u>MA_x</u> in MA _x - LI _x -zi, '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.

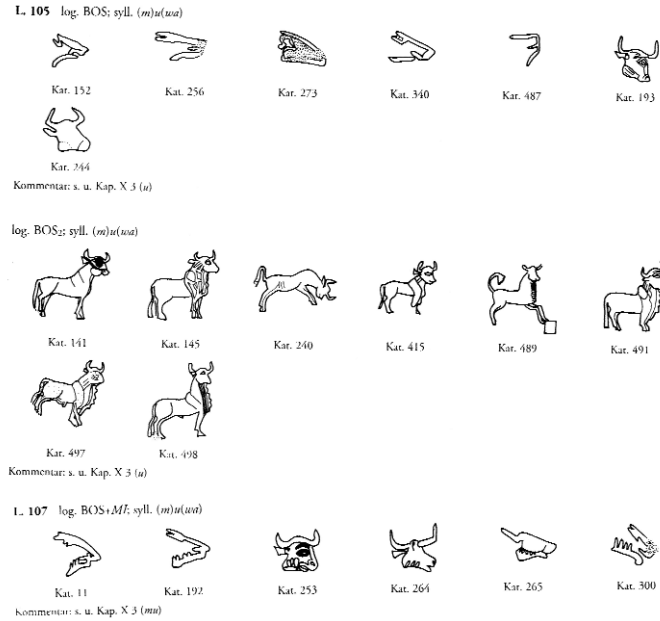


Figure 4. Sample from the sign list from Herbordt 2005, showing the readings “BOS”, “(m)u(wa)”, and “u” for A105; “BOS₂”, “(m)u(wa)”, and “u” for A105A, and “BOS+MI”, “(m)u(wa)”, and “mu” for A107.

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 (*Ini-*), 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* (*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.

	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

















	129B	129C	129D	129E	129F	12A0	12A1	12A2	12A3	12A4	12A5	12A6	12A7
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						
F	129BF	129CF	129DF	129EF	129FF	12A0F	12A1F						

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

- 1283C  ANATOLIAN HIEROGLYPH A056
→ 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
= genuflectere
- 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 A097A
= leo, bestia
- 12868  ANATOLIAN HIEROGLYPH A097B
= leo2
→ 12867  anatolian hieroglyph a097a
- 12869  ANATOLIAN HIEROGLYPH A098A
= canis
- 1286A  ANATOLIAN HIEROGLYPH A098B
= canis2
→ 12869  anatolian hieroglyph a098a
- 1286B  ANATOLIAN HIEROGLYPH A099
= equus
- 1286C  ANATOLIAN HIEROGLYPH A100
= asinus
= syllabic ta
- 1286D  ANATOLIAN HIEROGLYPH A101
= asinus2
- 1286E  ANATOLIAN HIEROGLYPH A102A
= cervus
= syllabic rú
- 1286F  ANATOLIAN HIEROGLYPH A102B
= cervus2
= syllabic rú
→ 1286E  anatolian hieroglyph a102a
- 12870  ANATOLIAN HIEROGLYPH A103
= cervus3
- 12871  ANATOLIAN HIEROGLYPH A104A
= capra
= syllabic sà
- 12872  ANATOLIAN HIEROGLYPH A104B
= capra2
→ 12871  anatolian hieroglyph a104a






























- 12873  ANATOLIAN HIEROGLYPH A104C
= capra2a
→ 12871  anatolian hieroglyph a104a
- 12874  ANATOLIAN HIEROGLYPH A105A
= bos
= syllabic u
- 12875  ANATOLIAN HIEROGLYPH A105B
= bos2
→ 12874  anatolian hieroglyph a105a
- 12876  ANATOLIAN HIEROGLYPH A106
- 12877  ANATOLIAN HIEROGLYPH A107A
= bos+mi
= syllabic mu
- 12878  ANATOLIAN HIEROGLYPH A107B
= bos.mi
→ 12877  anatolian hieroglyph a107a
- 12879  ANATOLIAN HIEROGLYPH A107C
= bos2.mi
→ 12877  anatolian hieroglyph a107a
- 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 A115A
= lepus
- 12882  ANATOLIAN HIEROGLYPH A115B
= lepus2
→ 12881  anatolian hieroglyph a115a
- 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 a115a
- 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
= syllabic 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  ANATOLIAN HIEROGLYPH A162
- 128B3  ANATOLIAN HIEROGLYPH A163
- 128B4  ANATOLIAN HIEROGLYPH A164





















128B5		ANATOLIAN HIEROGLYPH A165 = bonus = syllabic wà/i	128D4		ANATOLIAN HIEROGLYPH A196 = Hatti = syllabic há
128B6		ANATOLIAN HIEROGLYPH A166 = syllabic wá/i	128D5		ANATOLIAN HIEROGLYPH A197 = Hatti+li, Hattushili
128B7		ANATOLIAN HIEROGLYPH A167 → 12877  anatolian hieroglyph a107a	128D6		ANATOLIAN HIEROGLYPH A198
128B8		ANATOLIAN HIEROGLYPH A168 → 12961  anatolian hieroglyph a329	128D7		ANATOLIAN HIEROGLYPH A199 = tonitrus
128B9		ANATOLIAN HIEROGLYPH A169 → 1299F  anatolian hieroglyph a382	128D8		ANATOLIAN HIEROGLYPH A200 = fulgur
128BA		ANATOLIAN HIEROGLYPH A170 → 1284F  anatolian hieroglyph a073	128D9		ANATOLIAN HIEROGLYPH A201 = terra, locus = syllabic wa/i6
128BB		ANATOLIAN HIEROGLYPH A171	128DA		ANATOLIAN HIEROGLYPH A202A = via+terra.scalprum
128BC		ANATOLIAN HIEROGLYPH A172 = syllabic ta5	128DB		ANATOLIAN HIEROGLYPH A202B = via+terra+scalprum
128BD		ANATOLIAN HIEROGLYPH A173 = hastarius	128DC		ANATOLIAN HIEROGLYPH A202C = (deus) via+terra
128BE		ANATOLIAN HIEROGLYPH A174 = syllabic si	128DD		ANATOLIAN HIEROGLYPH A203
128BF		ANATOLIAN HIEROGLYPH A175 = lingua = syllabic la	128DE		ANATOLIAN HIEROGLYPH A204 = syllabic wa/i5
128C0		ANATOLIAN HIEROGLYPH A176 = syllabic la+la	128DF		ANATOLIAN HIEROGLYPH A205
128C1		ANATOLIAN HIEROGLYPH A177 = lingua+clavus	128E0		ANATOLIAN HIEROGLYPH A206
128C2		ANATOLIAN HIEROGLYPH A178 = syllabic la+ra+a	128E1		ANATOLIAN HIEROGLYPH A207 = mons = syllabic wa/i4
128C3		ANATOLIAN HIEROGLYPH A179 = hordeum = syllabic hwi-x	128E2		ANATOLIAN HIEROGLYPH A207A = leo+mons.tu+leo
128C4		ANATOLIAN HIEROGLYPH A180	128E3		ANATOLIAN HIEROGLYPH A208
128C5		ANATOLIAN HIEROGLYPH A181 = panis = syllabic pa-x	128E4		ANATOLIAN HIEROGLYPH A209 = syllabic i, i(a)
			128E5		ANATOLIAN HIEROGLYPH A210 = syllabic ia
			128E6		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 A216A = fines = syllabic arha
			128EC		ANATOLIAN HIEROGLYPH A216B = 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?

D. Nature




















128C6		ANATOLIAN HIEROGLYPH A182 = caelum	128E9		ANATOLIAN HIEROGLYPH A214 = syllabic ní
128C7		ANATOLIAN HIEROGLYPH A183 → 129CA  anatolian hieroglyph a423	128EA		ANATOLIAN HIEROGLYPH A215 = fons = syllabic ha
128C8		ANATOLIAN HIEROGLYPH A184	128EB		ANATOLIAN HIEROGLYPH A216A = fines = syllabic arha
128C9		ANATOLIAN HIEROGLYPH A185	128EC		ANATOLIAN HIEROGLYPH A216B = fines+ha
128CA		ANATOLIAN HIEROGLYPH A186 → 129E0  anatolian hieroglyph a445	128ED		ANATOLIAN HIEROGLYPH A217
128CB		ANATOLIAN HIEROGLYPH A187	128EE		ANATOLIAN HIEROGLYPH A218
128CC		ANATOLIAN HIEROGLYPH A188	128EF		ANATOLIAN HIEROGLYPH A219
128CD		ANATOLIAN HIEROGLYPH A189	128F0		ANATOLIAN HIEROGLYPH A220
128CE		ANATOLIAN HIEROGLYPH A190 = sol2	128F1		ANATOLIAN HIEROGLYPH A221 = via
128CF		ANATOLIAN HIEROGLYPH A191 = sol	128F2		ANATOLIAN HIEROGLYPH A222 → 128F1  anatolian hieroglyph a221
128D0		ANATOLIAN HIEROGLYPH A192 = oriens	128F3		ANATOLIAN HIEROGLYPH A223 = syllabic sa6
128D1		ANATOLIAN HIEROGLYPH A193 = luna	128F4		ANATOLIAN HIEROGLYPH A224 = syllabic ha? pa?
128D2		ANATOLIAN HIEROGLYPH A194			
128D3		ANATOLIAN HIEROGLYPH A195			




























































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, Murshili
- 128F9  ANATOLIAN HIEROGLYPH A228
= regio
- 128FA  ANATOLIAN HIEROGLYPH A229
= syllabic mi.regio
- 128FB  ANATOLIAN HIEROGLYPH A230
= syllabic tu4
- 128FC  ANATOLIAN HIEROGLYPH A231
= castrum
- 128FD  ANATOLIAN HIEROGLYPH A232
→ 128FC  anatolian hieroglyph a231
- 128FE  ANATOLIAN HIEROGLYPH A233
→ 128FC  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
→ 129D3  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
→ 129FE  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
→ 129B1  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 iá
- 12944  ANATOLIAN HIEROGLYPH A300
= nepos
- 12945  ANATOLIAN HIEROGLYPH A301
= lectus
- 12946  ANATOLIAN HIEROGLYPH A302
→ 129B1  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
= Teshub
- 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
→ 12A1D  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 zi
- 1296C  ANATOLIAN HIEROGLYPH A336A
= syllabic zà
- 1296D  ANATOLIAN HIEROGLYPH A336B
= syllabic za-x
- 1296E  ANATOLIAN HIEROGLYPH A337
= pithos
- 1296F  ANATOLIAN HIEROGLYPH A338
= culter
- 12970  ANATOLIAN HIEROGLYPH A339
→ 12957  anatolian hieroglyph a319

12971	𐎗	ANATOLIAN HIEROGLYPH A340 = annus.annus
12972	𐎘	ANATOLIAN HIEROGLYPH A341 = vas
12973	𐎙	ANATOLIAN HIEROGLYPH A342 → 1294B 𐎗 anatolian hieroglyph a307
12974	𐎚	ANATOLIAN HIEROGLYPH A343
12975	𐎛	ANATOLIAN HIEROGLYPH A344 = contractus
12976	𐎜	ANATOLIAN HIEROGLYPH A345 = urceus
12977	𐎝	ANATOLIAN HIEROGLYPH A346 = poculum
12978	𐎞	ANATOLIAN HIEROGLYPH A347 = syllabic hú
12979	𐎟	ANATOLIAN HIEROGLYPH A348 → 1297A 𐎗 anatolian hieroglyph a349
1297A	𐎠	ANATOLIAN HIEROGLYPH A349
1297B	𐎡	ANATOLIAN HIEROGLYPH A350
1297C	𐎢	ANATOLIAN HIEROGLYPH A351
1297D	𐎣	ANATOLIAN HIEROGLYPH A352 → 12976 𐎜 anatolian hieroglyph a345
1297E	𐎤	ANATOLIAN HIEROGLYPH A353 → 12976 𐎜 anatolian hieroglyph a345
1297F	𐎥	ANATOLIAN HIEROGLYPH A354 → 12976 𐎜 anatolian hieroglyph a345
12980	𐎦	ANATOLIAN HIEROGLYPH A355 = sacerdos
12981	𐎧	ANATOLIAN HIEROGLYPH A356
12982	𐎨	ANATOLIAN HIEROGLYPH A357
12983	𐎩	ANATOLIAN HIEROGLYPH A358 = dies
12984	𐎪	ANATOLIAN HIEROGLYPH A359 → 12983 𐎩 anatolian hieroglyph a358
12985	𐎫	ANATOLIAN HIEROGLYPH A359A

H. Symbols

12986	𐎬	ANATOLIAN HIEROGLYPH A360 = deus
12987	𐎭	ANATOLIAN HIEROGLYPH A361
12988	𐎮	ANATOLIAN HIEROGLYPH A362 = syllabic má
12989	𐎯	ANATOLIAN HIEROGLYPH A363 = magnus = syllabic ur
1298A	𐎱	ANATOLIAN HIEROGLYPH A364 = syllabic u → 12874 𐎗 anatolian hieroglyph a105a
1298B	𐎲	ANATOLIAN HIEROGLYPH A364A = syllabic mu → 12877 𐎗 anatolian hieroglyph a107a
1298C	𐎳	ANATOLIAN HIEROGLYPH A365
1298D	𐎴	ANATOLIAN HIEROGLYPH A366 = omnis
1298E	𐎵	ANATOLIAN HIEROGLYPH A367 = syllabic tal
1298F	𐎶	ANATOLIAN HIEROGLYPH A368 = malus

12990	𐎷	ANATOLIAN HIEROGLYPH A368A = malus2
12991	𐎸	ANATOLIAN HIEROGLYPH A369 = vita
12992	𐎹	ANATOLIAN HIEROGLYPH A370 = bonus2 = syllabic su
12993	𐎺	ANATOLIAN HIEROGLYPH A371 = iustitia, iudex
12994	𐎻	ANATOLIAN HIEROGLYPH A372 = sacerdos2
12995	𐎼	ANATOLIAN HIEROGLYPH A373
12996	𐎽	ANATOLIAN HIEROGLYPH A374
12997	𐎾	ANATOLIAN HIEROGLYPH A375
12998	𐎿	ANATOLIAN HIEROGLYPH A376 = syllabic zi
12999	𐏀	ANATOLIAN HIEROGLYPH A377 = syllabic za
1299A	𐏁	ANATOLIAN HIEROGLYPH A378 = lituus
1299B	𐏂	ANATOLIAN HIEROGLYPH A379 = occidens = syllabic tà

J. Lines, numbers, and geometric shapes

1299C	𐏃	ANATOLIAN HIEROGLYPH A380 ONE = unus = syllabic sa8
1299D	𐏄	ANATOLIAN HIEROGLYPH A381 = minus
1299E	𐏅	ANATOLIAN HIEROGLYPH A381A = mori, vir2.minus
1299F	𐏆	ANATOLIAN HIEROGLYPH A382 = lignum
129A0	𐏇	ANATOLIAN HIEROGLYPH COMBINING MARK A383 = syllabic ra/i • combines with other hieroglyphs
129A1	𐏈	ANATOLIAN HIEROGLYPH A384 = 2
129A2	𐏉	ANATOLIAN HIEROGLYPH A385 = 2?
129A3	𐏊	ANATOLIAN HIEROGLYPH A386 = vir2 = word divider
129A4	𐏋	ANATOLIAN HIEROGLYPH A386A = vir2a
129A5	𐏌	ANATOLIAN HIEROGLYPH A387 = servus = syllabic mi
129A6	𐏍	ANATOLIAN HIEROGLYPH A388 = 3 = tara/i
129A7	𐏎	ANATOLIAN HIEROGLYPH A389 = tara/i
129A8	𐏏	ANATOLIAN HIEROGLYPH A390 = dominus
129A9	𐏐	ANATOLIAN HIEROGLYPH A391 = 4 = syllabic mi
129AA	𐏑	ANATOLIAN HIEROGLYPH A392 = 5

129AB	𐎀	ANATOLIAN HIEROGLYPH A393 = 8	129CD	𐎀	ANATOLIAN HIEROGLYPH A426
129AC	𐎁	ANATOLIAN HIEROGLYPH A394	129CE	𐎁	ANATOLIAN HIEROGLYPH A427
129AD	𐎂	ANATOLIAN HIEROGLYPH A395 = 9 = syllabic nú	129CF	𐎂	ANATOLIAN HIEROGLYPH A428
129AE	𐎃	ANATOLIAN HIEROGLYPH A396	129D0	𐎃	ANATOLIAN HIEROGLYPH A429 = syllabic tana
129AF	𐎄	ANATOLIAN HIEROGLYPH A397 = 10 = decem	129D1	𐎄	ANATOLIAN HIEROGLYPH A430 = omnis2 = syllabic pú
129B0	𐎅	ANATOLIAN HIEROGLYPH A398	129D2	𐎅	ANATOLIAN HIEROGLYPH A431
129B1	𐎆	ANATOLIAN HIEROGLYPH A399 = 100 = centum	129D3	𐎆	ANATOLIAN HIEROGLYPH A432 = syllabic zú?
129B2	𐎇	ANATOLIAN HIEROGLYPH A400 = 1000 = mille	K. Varia		
129B3	𐎈	ANATOLIAN HIEROGLYPH A401 → 12A01 𐎈 anatolian hieroglyph a477	129D4	𐎇	ANATOLIAN HIEROGLYPH A433 = syllabic sá
129B4	𐎉	ANATOLIAN HIEROGLYPH A402 = scutella = syllabic sa4	129D5	𐎈	ANATOLIAN HIEROGLYPH A434 = syllabic ka
129B5	𐎊	ANATOLIAN HIEROGLYPH A403	129D6	𐎉	ANATOLIAN HIEROGLYPH A435 = syllabic a-x
129B6	𐎋	ANATOLIAN HIEROGLYPH A404 = animal	129D7	𐎊	ANATOLIAN HIEROGLYPH A436
129B7	𐎌	ANATOLIAN HIEROGLYPH A405	129D8	𐎋	ANATOLIAN HIEROGLYPH A437
129B8	𐎍	ANATOLIAN HIEROGLYPH A406	129D9	𐎌	ANATOLIAN HIEROGLYPH A438 = pastor
129B9	𐎎	ANATOLIAN HIEROGLYPH A407	129DA	𐎍	ANATOLIAN HIEROGLYPH A439 = syllabic wa/i
129BA	𐎏	ANATOLIAN HIEROGLYPH A408 → 12855 𐎏 anatolian hieroglyph a079	129DB	𐎎	ANATOLIAN HIEROGLYPH A440
129BB	𐎐	ANATOLIAN HIEROGLYPH A409	129DC	𐎏	ANATOLIAN HIEROGLYPH A441
129BC	𐎑	ANATOLIAN HIEROGLYPH A410 • marks start of logogram	129DD	𐎐	ANATOLIAN HIEROGLYPH A442
129BD	𐎒	ANATOLIAN HIEROGLYPH A410A • marks end of logogram	129DE	𐎑	ANATOLIAN HIEROGLYPH A443
129BE	𐎓	ANATOLIAN HIEROGLYPH A411 = syllabic ni	129DF	𐎒	ANATOLIAN HIEROGLYPH A444 → 12808 𐎒 anatolian hieroglyph a009
129BF	𐎔	ANATOLIAN HIEROGLYPH A412 = syllabic ru	129E0	𐎓	ANATOLIAN HIEROGLYPH A445 = syllabic la, li, lu
129C0	𐎕	ANATOLIAN HIEROGLYPH A413 = syllabic hi	129E1	𐎔	ANATOLIAN HIEROGLYPH A446 = syllabic ki
129C1	𐎖	ANATOLIAN HIEROGLYPH A414	129E2	𐎕	ANATOLIAN HIEROGLYPH A447 = versus = syllabic ni-x
129C2	𐎗	ANATOLIAN HIEROGLYPH A415 = syllabic sa	129E3	𐎖	ANATOLIAN HIEROGLYPH A448 = syllabic sù, zù?
129C3	𐎘	ANATOLIAN HIEROGLYPH A416 → 12957 𐎘 anatolian hieroglyph a319	129E4	𐎗	ANATOLIAN HIEROGLYPH A449
129C4	𐎙	ANATOLIAN HIEROGLYPH A417 = syllabic sa-x	129E5	𐎘	ANATOLIAN HIEROGLYPH A450 = syllabic a = end of a word
129C5	𐎚	ANATOLIAN HIEROGLYPH A418	129E6	𐎙	ANATOLIAN HIEROGLYPH A451 = syllabic hur
129C6	𐎛	ANATOLIAN HIEROGLYPH A419 = syllabic mí	129E7	𐎚	ANATOLIAN HIEROGLYPH A452
129C7	𐎜	ANATOLIAN HIEROGLYPH A420 → 129C6 𐎜 anatolian hieroglyph a419	129E8	𐎛	ANATOLIAN HIEROGLYPH A453 → 128C3 𐎛 anatolian hieroglyph a179
129C8	𐎝	ANATOLIAN HIEROGLYPH A421 = syllabic us	129E9	𐎜	ANATOLIAN HIEROGLYPH A454 → 128C3 𐎜 anatolian hieroglyph a179
129C9	𐎞	ANATOLIAN HIEROGLYPH A422 = panis.scutella	129EA	𐎝	ANATOLIAN HIEROGLYPH A455 = syllabic la-x
129CA	𐎟	ANATOLIAN HIEROGLYPH A423 = syllabic ku	129EB	𐎞	ANATOLIAN HIEROGLYPH A456 = syllabic sí?
129CB	𐎠	ANATOLIAN HIEROGLYPH A424	129EC	𐎟	ANATOLIAN HIEROGLYPH A457 → 1288C 𐎟 anatolian hieroglyph a125
129CC	𐎡	ANATOLIAN HIEROGLYPH A425	129ED	𐎠	ANATOLIAN HIEROGLYPH A457A
			129EE	𐎡	ANATOLIAN HIEROGLYPH A458
			129EF	𐎢	ANATOLIAN HIEROGLYPH A459
			129F0	𐎣	ANATOLIAN HIEROGLYPH A460

129F1		ANATOLIAN HIEROGLYPH A461	12A1B		ANATOLIAN HIEROGLYPH A506 = syllabic hana
129F2		ANATOLIAN HIEROGLYPH A462 = syllabic pá? ma-x?	12A1C		ANATOLIAN HIEROGLYPH A507
129F3		ANATOLIAN HIEROGLYPH A463	12A1D		ANATOLIAN HIEROGLYPH A508 = syllabic hwi/a
129F4		ANATOLIAN HIEROGLYPH A464	12A1E		ANATOLIAN HIEROGLYPH A509
129F5		ANATOLIAN HIEROGLYPH A465 → 128CF	12A1F		ANATOLIAN HIEROGLYPH A510
129F6		ANATOLIAN HIEROGLYPH A466	12A20		ANATOLIAN HIEROGLYPH A511
129F7		ANATOLIAN HIEROGLYPH A467 → 128CF	12A21		ANATOLIAN HIEROGLYPH A512
129F8		ANATOLIAN HIEROGLYPH A468 → 129F9	12A22		ANATOLIAN HIEROGLYPH A513
129F9		ANATOLIAN HIEROGLYPH A469	12A23		ANATOLIAN HIEROGLYPH A514
129FA		ANATOLIAN HIEROGLYPH A470 = 12	12A24		ANATOLIAN HIEROGLYPH A515
129FB		ANATOLIAN HIEROGLYPH A471	12A25		ANATOLIAN HIEROGLYPH A516
129FC		ANATOLIAN HIEROGLYPH A472	12A26		ANATOLIAN HIEROGLYPH A517
129FD		ANATOLIAN HIEROGLYPH A473 → 129FE	12A27		ANATOLIAN HIEROGLYPH A518 → 1287D
129FE		ANATOLIAN HIEROGLYPH A474 = eunuchus → 12913	12A28		ANATOLIAN HIEROGLYPH A519 → 12976
129FF		ANATOLIAN HIEROGLYPH A475	12A29		ANATOLIAN HIEROGLYPH A520
12A00		ANATOLIAN HIEROGLYPH A476	12A2A		ANATOLIAN HIEROGLYPH A521
12A01		ANATOLIAN HIEROGLYPH A477 = flammae	12A2B		ANATOLIAN HIEROGLYPH A522
12A02		ANATOLIAN HIEROGLYPH A478	12A2C		ANATOLIAN HIEROGLYPH A523
12A03		ANATOLIAN HIEROGLYPH A479 → 12A01	12A2D		ANATOLIAN HIEROGLYPH A524 = propheta, cornu+caput
12A04		ANATOLIAN HIEROGLYPH A480			
12A05		ANATOLIAN HIEROGLYPH A481			
12A06		ANATOLIAN HIEROGLYPH A482			
12A07		ANATOLIAN HIEROGLYPH A483			
12A08		ANATOLIAN HIEROGLYPH A484			
12A09		ANATOLIAN HIEROGLYPH A485			
12A0A		ANATOLIAN HIEROGLYPH A486 = falx			
12A0B		ANATOLIAN HIEROGLYPH A487 → 12800			
12A0C		ANATOLIAN HIEROGLYPH A488 = syllabic tí			
12A0D		ANATOLIAN HIEROGLYPH A489			
12A0E		ANATOLIAN HIEROGLYPH A490			
12A0F		ANATOLIAN HIEROGLYPH A491			
12A10		ANATOLIAN HIEROGLYPH A492			
12A11		ANATOLIAN HIEROGLYPH A493			
12A12		ANATOLIAN HIEROGLYPH A494			
12A13		ANATOLIAN HIEROGLYPH A495			
12A14		ANATOLIAN HIEROGLYPH A496			
12A15		ANATOLIAN HIEROGLYPH A497			

M. Additional signs

12A16		ANATOLIAN HIEROGLYPH A501
12A17		ANATOLIAN HIEROGLYPH A502
12A18		ANATOLIAN HIEROGLYPH A503
12A19		ANATOLIAN HIEROGLYPH A504
12A1A		ANATOLIAN HIEROGLYPH A505

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

2007-05-01

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

558.

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?