

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 for encoding the Meroitic script in the SMP of the UCS

Source: Michael Everson

Status: Individual Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

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This document replaces N2134 (1999-10-02), N1638 (1997-09-18), and contains the proposal summary form.

1. Introduction. The Meroitic script appeared with the rise of the Meroitic Kingdom in the third century BCE, though Egyptian writing (both hieroglyphic and demotic) would certainly have been known and was used previously in the Nubian city of Meroë, a city which is about 6 km north-east of the modern Kabushiya station near Shendi, Sudan, about 200 km north-east of modern Khartoum. Meroitic was used until some time after the fall of the Meroitic Empire in the first half of the fourth century CE. The values of the script's characters are known, but the language itself remains unknown, apart from names and a few other words.

2. Structure. The script has a monumental form, derived from Egyptian Hieroglyphs, and a cursive form, derived from Egyptian Demotic, which was used considerably more frequently than the monumental form. Although there is a relationship between Hieroglyphic Meroitic (*l'écriture hiéroglyphique méroïtique*) and Cursive Meroitic (*l'écriture cursive méroïtique*), the argument that the two should be treated as font variants is not compelling. Publications which cite Meroitic in the original script rather than in transliteration regularly preserve the distinction between Hieroglyphic and Cursive. Essentially, there is no usage requirement where any text written in Hieroglyphic Meroitic would be converted into Cursive, or vice versa. Hieroglyphic Meroitic is only used to write texts which were written in Hieroglyphic Meroitic, and Cursive Meroitic is only used to write texts which were written in Cursive Meroitic. Like Old Nuskhuri Georgian and modern Mkhedruli Georgian, the Meroitic script is really two scripts used for the same language. Scholars distinguish, and need to be able to distinguish, in plain text, Hieroglyphic Meroitic from Demotic Meroitic.

Moreover, in origin the two scripts differ historically. Cursive Meroitic developed over a period of time. Most of its characters are very close to the old Ptolemaic demotic of Upper Egypt (332-186 BCE), in particular / O, // YA, \lessdot PA, ω RA, \exists KHA ha , \exists SA, / ϑ QA, and the numbers -- 6, -- 8, -- 9, -- 20, -- 50, -- 70, -- 80, -- 100, -- 200, -- 300, and -- 800. Rilly 2007:247-262 gives a complete discussion of the origin of each individual Cursive character.

Like Cursive Meroitic, Hieroglyphic Meroitic is first known in various forms dating to the reign of Taneyidamani, at the end of the 2nd century BCE. But whilst the goal of Cursive writing was practical, it appears that the development of the Hieroglyphic form was based in the desire to possess a monumental and decorative version of the Cursive form, and also to participate in the magic power attributed to Egyptian Hieroglyphs. The set of characters devised for Hieroglyphic all have direct parallels with

Egyptian Hieroglyphs, and is larger than that of Cursive Meroitic, which relates not to Egyptian Hieroglyphs, but to the demotic script which is not unified with the Hieroglyphs. One of the reasons Hieroglyphic Meroitic is larger is an evident uncertainty in which Egyptian characters were to be used for various sounds; both  and  are used for *b*—the former (the ram) having the value *b3* in Egyptian, the latter (the foot) simply *b*. These are also distinguished in current fonts. There is no purely one-to-one relationship between Cursive and Hieroglyphic Meroitic.

Hieroglyphic Meroitic is used only for formal inscriptions. There are no private documents written in it.

3. Directionality. The primary direction of writing is right-to-left as for Egyptian texts, though (as for Egyptian) left-to-right is used decoratively in hieroglyphic columns. Egyptian has both right-to-left and left-to-right directionality; Egyptian has been encoded with left-to-right directionality as this is the predominant modern usage for Egyptian text—but for Meroitic right-to-left directionality is preferred, in part because no bilingual texts have come to light. Unlike Egyptian, where one reads into the faces of the people and animals, in Meroitic, the reading direction follows the way the people and animals are looking.

4. Punctuation. Word dividers are employed more or less regularly, to isolate not separate words, but basic elements of sentences—nominal phrases (noun and article, noun and adjective and article, etc) verbal forms, and so on. Three vertical dots are used in Hieroglyphs and early Cursive, though when the Hieroglyphs are set in vertical columns, three horizontal dots are used. It would seem that U+205D TRICOLON : and U+2026 HORIZONTAL ELLIPSIS ... can serve this function. In later Cursive texts this became reduced to a COLON :, used with some irregularity.

5. Numbers. Meroitic numbers are fairly well known. Ones, tens, hundreds, and thousands are known; characters for 60, 90, and 900 are not yet known; neither are the numbers for 4,000, 6,000, 7,000, 8,000, and 9,000, though the number for 10,000 is cited in secondary literature (a number chart, see Figure 4). There is a system to the number shapes, as there are in Egyptian Hieratic, so gaps have been left in the code table for the numbers as yet unattested.

6. Names and ordering. Most of the Meroitic letters have readings with an inherent -*a* (unless a vowel follows the consonant), though those letters may also represent their consonant without the -*a* vowel.

7. Issues. At least twenty-four symbols are known, many used in conjunction with numbers and are perhaps determinatives of different types of goods. A number of these with very similar glyphs may not be unique characters at all. Further study of these is required. They are left for future standardization.

8. Unicode Character Properties.

```
10980;MEROITIC HIEROGLYPHIC LETTER A;Lo;0;R;;;;;N;;;;;
10981;MEROITIC HIEROGLYPHIC LETTER E;Lo;0;R;;;;;N;;;;;
10982;MEROITIC HIEROGLYPHIC LETTER I;Lo;0;R;;;;;N;;;;;
10983;MEROITIC HIEROGLYPHIC LETTER O;Lo;0;R;;;;;N;;;;;
10984;MEROITIC HIEROGLYPHIC LETTER YA;Lo;0;R;;;;;N;;;;;
10985;MEROITIC HIEROGLYPHIC LETTER WA;Lo;0;R;;;;;N;;;;;
10986;MEROITIC HIEROGLYPHIC LETTER BA;Lo;0;R;;;;;N;;;;;
10987;MEROITIC HIEROGLYPHIC LETTER BA-2;Lo;0;R;;;;;N;;;;;
10988;MEROITIC HIEROGLYPHIC LETTER PA;Lo;0;R;;;;;N;;;;;
10989;MEROITIC HIEROGLYPHIC LETTER MA;Lo;0;R;;;;;N;;;;;
1098A;MEROITIC HIEROGLYPHIC LETTER NA;Lo;0;R;;;;;N;;;;;
1098B;MEROITIC HIEROGLYPHIC LETTER NA-2;Lo;0;R;;;;;N;;;;;
1098C;MEROITIC HIEROGLYPHIC LETTER NE;Lo;0;R;;;;;N;;;;;
1098D;MEROITIC HIEROGLYPHIC LETTER NE-2;Lo;0;R;;;;;N;;;;;
1098E;MEROITIC HIEROGLYPHIC LETTER RA;Lo;0;R;;;;;N;;;;;
1098F;MEROITIC HIEROGLYPHIC LETTER RA-2;Lo;0;R;;;;;N;;;;;
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10990;MEROITIC HIEROGLYPHIC LETTER LA;Lo;0;R;;;;;N;;;;;
10991;MEROITIC HIEROGLYPHIC LETTER KHA;Lo;0;R;;;;;N;;;;;
10992;MEROITIC HIEROGLYPHIC LETTER HHA;Lo;0;R;;;;;N;;;;;
10993;MEROITIC HIEROGLYPHIC LETTER SA;Lo;0;R;;;;;N;;;;;
10994;MEROITIC HIEROGLYPHIC LETTER SA-2;Lo;0;R;;;;;N;;;;;
10995;MEROITIC HIEROGLYPHIC LETTER SE;Lo;0;R;;;;;N;;;;;
10996;MEROITIC HIEROGLYPHIC LETTER KA;Lo;0;R;;;;;N;;;;;
10997;MEROITIC HIEROGLYPHIC LETTER QA;Lo;0;R;;;;;N;;;;;
10998;MEROITIC HIEROGLYPHIC LETTER TA;Lo;0;R;;;;;N;;;;;
10999;MEROITIC HIEROGLYPHIC LETTER TA-2;Lo;0;R;;;;;N;;;;;
1099A;MEROITIC HIEROGLYPHIC LETTER TE;Lo;0;R;;;;;N;;;;;
1099B;MEROITIC HIEROGLYPHIC LETTER TE-2;Lo;0;R;;;;;N;;;;;
1099C;MEROITIC HIEROGLYPHIC LETTER TO;Lo;0;R;;;;;N;;;;;
1099D;MEROITIC HIEROGLYPHIC LETTER DA;Lo;0;R;;;;;N;;;;;
1099E;MEROITIC DEMOTIC LETTER A;Lo;0;R;;;;;N;;;;;
1099F;MEROITIC DEMOTIC LETTER E;Lo;0;R;;;;;N;;;;;
109A0;MEROITIC DEMOTIC LETTER I;Lo;0;R;;;;;N;;;;;
109A1;MEROITIC DEMOTIC LETTER O;Lo;0;R;;;;;N;;;;;
109A2;MEROITIC DEMOTIC LETTER YA;Lo;0;R;;;;;N;;;;;
109A3;MEROITIC DEMOTIC LETTER WA;Lo;0;R;;;;;N;;;;;
109A4;MEROITIC DEMOTIC LETTER BA;Lo;0;R;;;;;N;;;;;
109A5;MEROITIC DEMOTIC LETTER PA;Lo;0;R;;;;;N;;;;;
109A6;MEROITIC DEMOTIC LETTER MA;Lo;0;R;;;;;N;;;;;
109A7;MEROITIC DEMOTIC LETTER NA;Lo;0;R;;;;;N;;;;;
109A8;MEROITIC DEMOTIC LETTER NE;Lo;0;R;;;;;N;;;;;
109A9;MEROITIC DEMOTIC LETTER RA;Lo;0;R;;;;;N;;;;;
109AA;MEROITIC DEMOTIC LETTER LA;Lo;0;R;;;;;N;;;;;
109AB;MEROITIC DEMOTIC LETTER KHA;Lo;0;R;;;;;N;;;;;
109AC;MEROITIC DEMOTIC LETTER HHA;Lo;0;R;;;;;N;;;;;
109AD;MEROITIC DEMOTIC LETTER SA;Lo;0;R;;;;;N;;;;;
109AE;MEROITIC DEMOTIC LETTER SE;Lo;0;R;;;;;N;;;;;
109AF;MEROITIC DEMOTIC LETTER KA;Lo;0;R;;;;;N;;;;;
109B0;MEROITIC DEMOTIC LETTER QA;Lo;0;R;;;;;N;;;;;
109B1;MEROITIC DEMOTIC LETTER TA;Lo;0;R;;;;;N;;;;;
109B2;MEROITIC DEMOTIC LETTER TE;Lo;0;R;;;;;N;;;;;
109B3;MEROITIC DEMOTIC LETTER TO;Lo;0;R;;;;;N;;;;;
109B4;MEROITIC DEMOTIC LETTER DA;Lo;0;R;;;;;N;;;;;
109B5;MEROITIC FRACTION ONE HALF;No;0;R;;;;;1/2;N;;;;;
109B6;MEROITIC FRACTION ONE TWELFTH;No;0;R;;;;;1/12;N;;;;;
109B7;MEROITIC FRACTION TWO TWELFTHS;No;0;R;;;;;2/12;N;;;;;
109B8;MEROITIC FRACTION THREE TWELFTHS;No;0;R;;;;;3/12;N;;;;;
109B9;MEROITIC FRACTION FOUR TWELFTHS;No;0;R;;;;;4/12;N;;;;;
109BA;MEROITIC FRACTION FIVE TWELFTHS;No;0;R;;;;;5/12;N;;;;;
109BB;MEROITIC FRACTION SIX TWELFTHS;No;0;R;;;;;6/12;N;;;;;
109BC;MEROITIC FRACTION SEVEN TWELFTHS;No;0;R;;;;;7/12;N;;;;;
109BD;MEROITIC FRACTION EIGHT TWELFTHS;No;0;R;;;;;8/12;N;;;;;
109BE;MEROITIC FRACTION NINE TWELFTHS;No;0;R;;;;;9/12;N;;;;;
109BF;MEROITIC FRACTION TEN TWELFTHS;No;0;R;;;;;10/12;N;;;;;
109C1;MEROITIC NUMBER ONE;No;0;R;;;;;1;N;;;;;
109C2;MEROITIC NUMBER TWO;No;0;R;;;;;2;N;;;;;
109C3;MEROITIC NUMBER THREE;No;0;R;;;;;3;N;;;;;
109C4;MEROITIC NUMBER FOUR;No;0;R;;;;;4;N;;;;;
109C5;MEROITIC NUMBER FIVE;No;0;R;;;;;5;N;;;;;
109C6;MEROITIC NUMBER SIX;No;0;R;;;;;6;N;;;;;
109C7;MEROITIC NUMBER SEVEN;No;0;R;;;;;7;N;;;;;
109C8;MEROITIC NUMBER EIGHT;No;0;R;;;;;8;N;;;;;
109C9;MEROITIC NUMBER NINE;No;0;R;;;;;9;N;;;;;
109CA;MEROITIC NUMBER TEN;No;0;R;;;;;10;N;;;;;
109CB;MEROITIC NUMBER TWENTY;No;0;R;;;;;20;N;;;;;
109CC;MEROITIC NUMBER THIRTY;No;0;R;;;;;30;N;;;;;
109CD;MEROITIC NUMBER FORTY;No;0;R;;;;;40;N;;;;;
109CE;MEROITIC NUMBER FIFTY;No;0;R;;;;;50;N;;;;;
109D1;MEROITIC NUMBER SEVENTY;No;0;R;;;;;70;N;;;;;
109D2;MEROITIC NUMBER EIGHTY;No;0;R;;;;;80;N;;;;;
109D4;MEROITIC NUMBER ONE HUNDRED;No;0;R;;;;;100;N;;;;;
109D5;MEROITIC NUMBER TWO HUNDRED;No;0;R;;;;;200;N;;;;;
109D6;MEROITIC NUMBER THREE HUNDRED;No;0;R;;;;;300;N;;;;;
109D7;MEROITIC NUMBER FOUR HUNDRED;No;0;R;;;;;400;N;;;;;
109D8;MEROITIC NUMBER FIVE HUNDRED;No;0;R;;;;;500;N;;;;;
109D9;MEROITIC NUMBER SIX HUNDRED;No;0;R;;;;;600;N;;;;;

109DA;MEROITIC NUMBER SEVEN HUNDRED;No;0;R;;;;700;N;;;;;
109DB;MEROITIC NUMBER EIGHT HUNDRED;No;0;R;;;;800;N;;;;;
109DD;MEROITIC NUMBER ONE THOUSAND;No;0;R;;;;1000;N;;;;;
109DE;MEROITIC NUMBER TWO THOUSAND;No;0;R;;;;2000;N;;;;;
109DF;MEROITIC NUMBER THREE THOUSAND;No;0;R;;;;3000;N;;;;;
109E0;MEROITIC NUMBER FIVE THOUSAND;No;0;R;;;;5000;N;;;;;
109E5;MEROITIC NUMBER TEN THOUSAND;No;0;R;;;;10000;N;;;;;
109E6;MEROITIC LOGOGRAM RMT;Lo;0;R;;;;N;;;;;
109E7;MEROITIC LOGOGRAM IMN;Lo;0;R;;;;N;;;;;
109E8;MEROITIC SYMBOL VIDJ;So;0;R;;;;N;;;;;
109E9;MEROITIC SYMBOL VIDJ-2;So;0;R;;;;N;;;;;

9. Bibliography.

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	1098	1099	109A	109B	109C	109D	109E	109F
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

Hieroglyphic alphabet

10980	අ	MEROITIC HIEROGLYPHIC LETTER A → 13000 අ egyptian hieroglyph a001
10981	ඇ	MEROITIC HIEROGLYPHIC LETTER E → 13184 ඇ egyptian hieroglyph h006
10982	ඉ	MEROITIC HIEROGLYPHIC LETTER I → 1301E ඉ egyptian hieroglyph a026
10983	ඈ	MEROITIC HIEROGLYPHIC LETTER O → 130FE ඈ egyptian hieroglyph f001
10984	ඊ	MEROITIC HIEROGLYPHIC LETTER YA → 131CC ඊ egyptian hieroglyph m017a
10985	උ	MEROITIC HIEROGLYPHIC LETTER WA → 1336F උ egyptian hieroglyph v004
10986	ඌ	MEROITIC HIEROGLYPHIC LETTER BA → 130DE ඌ egyptian hieroglyph e011
10987	ඍ	MEROITIC HIEROGLYPHIC LETTER BA-2 → 130C0 ඍ egyptian hieroglyph d058
10988	ඎ	MEROITIC HIEROGLYPHIC LETTER PA → 132AA ඎ egyptian hieroglyph q003
10989	ඏ	MEROITIC HIEROGLYPHIC LETTER MA → 13153 ඏ egyptian hieroglyph g017
1098A	ඐ	MEROITIC HIEROGLYPHIC LETTER NA → 13216 ඐ egyptian hieroglyph n035
1098B	එ	MEROITIC HIEROGLYPHIC LETTER NA-2
1098C	ඒ	MEROITIC HIEROGLYPHIC LETTER NE → 131D2 ඒ egyptian hieroglyph m022a
1098D	ඓ	MEROITIC HIEROGLYPHIC LETTER NE-2
1098E	ඔ	MEROITIC HIEROGLYPHIC LETTER RA → 1308B ඔ egyptian hieroglyph d021
1098F	ඕ	MEROITIC HIEROGLYPHIC LETTER RA-2
10990	ඖ	MEROITIC HIEROGLYPHIC LETTER LA → 130ED ඖ egyptian hieroglyph e023
10991	඗	MEROITIC HIEROGLYPHIC LETTER KHA → 1340D ඗ egyptian hieroglyph aa001
10992	඘	MEROITIC HIEROGLYPHIC LETTER HHA → 133BC ඘ egyptian hieroglyph w011
10993	඙	MEROITIC HIEROGLYPHIC LETTER SA → 131B7 ඙ egyptian hieroglyph m008
10994	ක	MEROITIC HIEROGLYPHIC LETTER SA-2 → 13283 ක egyptian hieroglyph o034
10995	ඛ	MEROITIC HIEROGLYPHIC LETTER SE → 13283 ඛ egyptian hieroglyph o034
10996	ග	MEROITIC HIEROGLYPHIC LETTER KA → 1316C ග egyptian hieroglyph g038
10997	ඝ	MEROITIC HIEROGLYPHIC LETTER QA → 1320E ඝ egyptian hieroglyph n029
10998	ඞ	MEROITIC HIEROGLYPHIC LETTER TA → 1337F ඞ egyptian hieroglyph v013
10999	ඟ	MEROITIC HIEROGLYPHIC LETTER TA-2 → 131FE ඟ egyptian hieroglyph n016
1099A	ඟ	MEROITIC HIEROGLYPHIC LETTER TE → 131FE ඟ egyptian hieroglyph n016 → 13254 ඟ egyptian hieroglyph o004
1099B	ඟ	MEROITIC HIEROGLYPHIC LETTER TE-2 → 13254 ඟ egyptian hieroglyph o004
1099C	ඟ	MEROITIC HIEROGLYPHIC LETTER TO → 13205 ඟ egyptian hieroglyph n021
1099D	ඟ	MEROITIC HIEROGLYPHIC LETTER DA → 1307B ඟ egyptian hieroglyph d006

Cursive alphabet

1099E	අ	MEROITIC CURSIVE LETTER A
1099F	ඇ	MEROITIC CURSIVE LETTER E
109A0	ඉ	MEROITIC CURSIVE LETTER I
109A1	ඉ	MEROITIC CURSIVE LETTER O
109A2	එ	MEROITIC CURSIVE LETTER YA
109A3	ඒ	MEROITIC CURSIVE LETTER WA
109A4	ඓ	MEROITIC CURSIVE LETTER BA
109A5	ඔ	MEROITIC CURSIVE LETTER PA
109A6	ඔ	MEROITIC CURSIVE LETTER MA
109A7	ඔ	MEROITIC CURSIVE LETTER NA
109A8	ඔ	MEROITIC CURSIVE LETTER NE
109A9	ඔ	MEROITIC CURSIVE LETTER RA
109AA	ඔ	MEROITIC CURSIVE LETTER LA
109AB	ඔ	MEROITIC CURSIVE LETTER KHA
109AC	ඔ	MEROITIC CURSIVE LETTER HHA
109AD	ඔ	MEROITIC CURSIVE LETTER SA
109AE	ඔ	MEROITIC CURSIVE LETTER ARCHAIC SA
109AF	එ	MEROITIC CURSIVE LETTER SE
109B0	ඔ	MEROITIC CURSIVE LETTER KA
109B1	ඔ	MEROITIC CURSIVE LETTER QA
109B2	ඔ	MEROITIC CURSIVE LETTER TA
109B3	ඔ	MEROITIC CURSIVE LETTER TE
109B4	ඔ	MEROITIC CURSIVE LETTER TO
109B5	ඔ	MEROITIC CURSIVE LETTER DA

Logograms

109BC	ර	MEROITIC LOGOGRAM RMT
109BD	ශ	MEROITIC LOGOGRAM IMN

Symbols

109BE	♀	MEROITIC SYMBOL VIDJ → 2625 ♀ ankh → 132F9 ♀ egyptian hieroglyph s034
109BF	✳	MEROITIC SYMBOL VIDJ-2

Fractions

109C0	၁	MEROITIC FRACTION ONE HALF
109C1	၂	MEROITIC FRACTION ONE TWELFTH
109C2	၃	MEROITIC FRACTION TWO TWELFTHS
109C3	၄	MEROITIC FRACTION THREE TWELFTHS
109C4	၅	MEROITIC FRACTION FOUR TWELFTHS
109C5	၆	MEROITIC FRACTION FIVE TWELFTHS
109C6	၇	MEROITIC FRACTION SIX TWELFTHS
109C7	၈	MEROITIC FRACTION SEVEN TWELFTHS
109C8	၉	MEROITIC FRACTION EIGHT TWELFTHS
109C9	၁၀	MEROITIC FRACTION NINE TWELFTHS
109CA	၁၁	MEROITIC FRACTION TEN TWELFTHS

Numbers**Ones**

109CC	I	MEROITIC NUMBER ONE
109CD	II	MEROITIC NUMBER TWO
109CE	III	MEROITIC NUMBER THREE
109CF	IV	MEROITIC NUMBER FOUR
109D0	V	MEROITIC NUMBER FIVE
109D1	VI	MEROITIC NUMBER SIX
109D2	VII	MEROITIC NUMBER SEVEN
109D3	VIII	MEROITIC NUMBER EIGHT

109D4 ⠈ MEROITIC NUMBER NINE

Tens

- 109D5 → MEROITIC NUMBER TEN
- 109D6 ← MEROITIC NUMBER TWENTY
- 109D7 × MEROITIC NUMBER THIRTY
- 109D8 ↘ MEROITIC NUMBER FORTY
- 109D9 ↙ MEROITIC NUMBER FIFTY
- 109DA ⠉ <reserved>
- 109DB ↗ MEROITIC NUMBER SEVENTY
- 109DC ↖ MEROITIC NUMBER EIGHTY

Hundreds

- 109DE ↗ MEROITIC NUMBER ONE HUNDRED
- 109DF ↘ MEROITIC NUMBER TWO HUNDRED
- 109E0 ↛ MEROITIC NUMBER THREE HUNDRED
- 109E1 ↚ MEROITIC NUMBER FOUR HUNDRED
- 109E2 ↢ MEROITIC NUMBER FIVE HUNDRED
- 109E3 ↤ MEROITIC NUMBER SIX HUNDRED
- 109E4 ↥ MEROITIC NUMBER SEVEN HUNDRED
- 109E5 ↦ MEROITIC NUMBER EIGHT HUNDRED

Thousands

- 109E7 ⠈ MEROITIC NUMBER ONE THOUSAND
- 109E8 ↖ MEROITIC NUMBER TWO THOUSAND
- 109E9 ↖ MEROITIC NUMBER THREE THOUSAND
- 109EA ⠉ <reserved>
- 109EB ↖ MEROITIC NUMBER FIVE THOUSAND
- 109EC ⠉ <reserved>
- 109ED ⠉ <reserved>
- 109EE ⠉ <reserved>
- 109EF ⠉ <reserved>
- 109F0 ↖ MEROITIC NUMBER TEN THOUSAND

Figures

435 { 043:1135/1143 } 5/118:119
 : 405 27 523:5 111 6 7 0 5 W 119:119
 135 27 5 111 6 31235:15
 5 262:3 1245 { 5/112/14 58/132
 REM 0089

5 C 2 15 472/3:48 15 52 46 14 3:48 113 43 5/115
 5 W 5/111 43 452 17/5 4:48 15 52:3 476:435/114:48 13
 135 27 5 111 6 31235:48 15 52 3 5 5 111:115 C:111 113:12:2
 REM 0088

: 445 5/13 8 3 18
 5 2 5 8:5 2 5 8:5 2 5 8
 : 48 113/5/1143:48 5/13:113

REM 0133

Figure 1. Text in Demotic Meroitic from Hofmann 1991.

مفردات من اللغات القديمة مكتوبة كتابة محرادية: المروية

سابعاً : (١) المروية (المختزلة) مرتبة ترتيباً هجائياً مرويّاً

62 (الهمزة) ، 52

16: 47/1W142

4/1/15W13 & 4/1/15W1352

(أُنْظَرَ 5W1352) .

(اسم "أُون عبّتاً" في 4-14-352)

5362 (انظر بعدها) .

5362 (15: ("خبز") = "خبز") .

("قربان خبز") في 356336362 .

204 16: 847/114-14-28352

10: 4/1/15W1352

28352 (انظر 5W1352) .

4/1/15W13 14: 4/1/15W1352

("با أوربر" . وانظر 5W1352) .

254 6W13

313452، 645 62، 52 (النيل") .

("أرض النيل" . قائد") .

Figure 2. Text in Demotic Meroitic from 'Abd Allāh 1986.

مفردات من اللغات القديمة مكتوبة كتابة تصويرية (هيروغليفية) : المروية

٢٥١ (= اقديس) ؛ (= اقديسلو) (= اسم خنس ؟) .

سادساً (١) : المروية الهieroغليفية
(حسب الترتيب الهجائي المروي)

(الهمزة) 

٢٥٣ : ﴿تِي تَحْمِلُهُ رَبُّكُمْ بِرَبِّكُمْ مُّنْدُثٌ﴾
 (= اتَّخْمَلُو)

٢٠٣، ١٢٩، ١٢٨، ١٢٦، ١٢٥، ٢١٩، ٢٠٤، أمني (اسم أمون)

• ۲۰۳ : ﻒـ ﺔـ ﻢـ ﻪـ ﻮـ ﻮـ ﻮـ

၁၀၈:၂၇၆။

تُوكِيْتِيل : أمون اريتيل الندي

٢٠٤ بالنقعة

الـ : أمني : توثيق ٢٠٤ ، ٢١٩ (امون)

ا۔ ریکھرور ۲۳۸

(و) ٨٧

وَانْظُرْ إِلَيْهِمْ فَإِنَّمَا هُنَّ أَمْنَىٰ .

فی سُلَطَنَةِ (وُوشِیٰ، یا ایزہ) ۲۲۳، ۲۵۳ (ایزہ)

۲۱۹، ۲۰۷، ۲۱۶، ۲۰۲ # فیلم ۴
۲۰۱، ۲۰۲ # فیلم ۸

Figure 3. Text in Hieroglyphic Meroitic from 'Abd Allāh 1986.

Figure 4. Table of Meroitic numbers.

Tableau 8 : Équations de Griffith permettant d'établir la valeur des signes

équation	mot méroïtique	graphie méroïtique	équivalents égyptiens et démotiques	équivalents coptes et grecs	donne valeur de
(a)	<i>Natakamani</i> Natakamani	𢃥𢃤𢃥𢃤𢃥𢃤𢃥			𢃥, 𢃤, 𢃥
(b)	<i>Amanitère</i> Amanitore	𢃤.𢃥𢃤𢃥𢃤𢃥			𢃥, 𢃤, 𢃥, .𢃥
(c)	<i>Amani Amon</i>	𢃥𢃤, 𢃥𢃤𢃥		ѧਮօγն, -ամենից	𢃥, 𢃤, 𢃥
(d)	<i>Wēš Isis</i>	3/𢃥, 3 4/𢃥		հՅԵ, *հՅԻ	3
(e)	<i>Aséri Osiris</i>	4w/3s2		օյցիրէ, *օյցիրի	3, w
(f)	<i>Ar Horus</i>	w s2	Hr	շՈՐ, չԱՐ-	s2, w
(g)	<i>Pilege,</i> <i>Pilage, Pilagē</i> Philae	5/3s3 4/𢃥 5/3s 4/𢃥 1/1s3 4/𢃥	dém. P-3ylq	πΠΛΑΚ	ξ, 4, 5./3
(h)	<i>Atiye</i> Sedeinga	5/11 4/5s2	H.t Tiy = /ha-teye/ (?)		1/1.52.4
(i)	<i>tewisti</i> adoration	4/5v/11 4/3/1/5	dém. t-wšte	τΟΥΛΙΨΤԵ *ΤΟΥԵՍՏԻ	1/5, 3, VII., 4
(j)	<i>pelamēš</i> stratège	3/3s5/2	dém. p-mr-mš'	ΠΛΕΜΗΗΨԵ *ΠԼԵՄԻԿ	ξ, Տ, 5, 3, 1/3
(k)	<i>perite</i> agent	1/5 4w s/4	dém. p-r̄t	Π-ΡԻՏ	ξ, Տ, w, 1/5
(l)	<i>qēreñ</i> un titre	8s w/1/7	transcr. dém. qrnj		1/7, w, 8
(m)	<i>Paḥaras</i> Faras	VIII w 3/4		ΠΑΧՎՐԱԾ, Πաշվրած	ξ, 3, w, VII
(n)	<i>Šaye</i> Saī	9/11 3		ԶԱՒ	3, 1/1

Figure 5. Table from Rilly 2007 showing texts in both Hieroglyphic and Cursive Meroitic.

A. Administrative

1. Title

Proposal for encoding the Meroitic script in the SMP of the UCS

2. Requester's name

Michael Everson

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

Individual contribution.

4. Submission date

2009-04-14

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

No.

6b. More information will be provided later

Yes.

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

Meroitic.

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

30.

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 E.

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.

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

Yes.

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.

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.

No.

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?

Richard Lobban, Reginald Smith, Claude Rilly, Michael Zach

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?

Small community, scholars and historians.

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

Scholarly use.

4b. Reference

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

Yes.

5b. If YES, where?

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?

Yes.

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

Yes.

10c. If YES, reference

Similarity to Egyptian hieroglyphs is genetic but superficial.

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)?

No.

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

11c. If YES, reference

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?