1. Introduction. This proposal requests the addition of a number of letters used for Ossetian and Abkhaz. These include:

- four Khutsuri letters (U+10C7, U+2D27, U+10CD, and U+2D2D) which were used as casing pairs in the nineteenth century by Jalguzidze for Ossetian. These letters correspond to Cyrillic ỳ and ì.
- one Mkhedruli letter (U+10FD) which was used in an Ossetian orthography of the 1940s. This letter corresponds to Cyrillic æ.
- two Mkhedruli letters (U+10FE and U+10FF) which were used to form digraphs in Abkhaz orthography of the 1940s.

1.1. Khutsuri additions for Ossetian

- U+10C7 GEORGIAN CAPITAL LETTER YN
- U+2D27 GEORGIAN SMALL LETTER YN
- U+10FD GEORGIAN LETTER AEN
- U+10CD GEORGIAN CAPITAL LETTER AEN
- U+2D2D GEORGIAN SMALL LETTER AEN

1.2. Mkhedruli additions for Ossetian and Abkhaz

- U+10FD GEORGIAN LETTER AEN
- U+10FE GEORGIAN LETTER HARD SIGN
- U+10FF GEORGIAN LETTER LABIAL SIGN
2. Unicode Character Properties.

3. Character names. The letters YN and AEN represent [ɨ] and [æ] respectively. The Georgian names for the HARD SIGN and the LABIAL SIGN are magari ‘hard, strong’ and labializebuli ‘labialized’ respectively. Note that the relative code positions of YN and AEN are the same in all three charts (Khutsuri and Mkhedruli).

Jalguzidze 1820–1824.
Бигулаев, Б. Б. 1952. Краткая история осетинского письма. Государственное издательство Северо-Осетинской АССР, Дзауджикау.
Чочуа А. М. & В. Н. Маан. 1939. Абхазский букварь. Сухуми.

5. 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) in respect of the Georgian encoding. Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of the National Endowment of the Humanities.
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Capital letters (Khutsuri)

This is the uppercase of the old ecclesiastical alphabet. The style shown in the code charts is known as Asomtavruli. See the Georgian Supplement block for lowercase Nuskhuri.

10A0 მ GEORGIAN CAPITAL LETTER AN
10A1 ღ GEORGIAN CAPITAL LETTER BAN
10A2 გ GEORGIAN CAPITAL LETTER GAN
10A3 ხ GEORGIAN CAPITAL LETTER DON
10A4 ჰ GEORGIAN CAPITAL LETTER EN
10A5 ჴ GEORGIAN CAPITAL LETTER VIN
10A6 ჵ GEORGIAN CAPITAL LETTER ZEN
10A7 ჶ GEORGIAN CAPITAL LETTER TAN
10A8 ჷ GEORGIAN CAPITAL LETTER RAE
10A9 ჸ GEORGIAN CAPITAL LETTER SAN
10AA ჹ GEORGIAN CAPITAL LETTER TAR
10AB ჺ GEORGIAN CAPITAL LETTER UN
10AC ჻ GEORGIAN CAPITAL LETTER PHAR
10AD ჼ GEORGIAN CAPITAL LETTER KHAR
10AE ჾ GEORGIAN CAPITAL LETTER GHAN
10AF ჷ GEORGIAN CAPITAL LETTER QAR
10B0 ჸ GEORGIAN CAPITAL LETTER SHIN
10B1 ი GEORGIAN CAPITAL LETTER CHIN
10B2 ჹ GEORGIAN CAPITAL LETTER CAN
10B3 ჺ GEORGIAN CAPITAL LETTER JIL
10B4 ჻ GEORGIAN CAPITAL LETTER CIL
10B5 ჼ GEORGIAN CAPITAL LETTER CHAR
10B6 ჴ GEORGIAN CAPITAL LETTER XAN
10B7 ჵ GEORGIAN CAPITAL LETTER JHAN
10B8 ჶ GEORGIAN CAPITAL LETTER HAE
10B9 ჷ GEORGIAN CAPITAL LETTER HE
10BA ჸ GEORGIAN CAPITAL LETTER HIE
10BB ჹ GEORGIAN CAPITAL LETTER WE
10BC ჺ GEORGIAN CAPITAL LETTER HAR
10BD ჻ GEORGIAN CAPITAL LETTER HOE
10BE ჼ GEORGIAN CAPITAL LETTER YN
10BF ჾ GEORGIAN CAPITAL LETTER ELIFI

Additional letters for Ossetian

10C7 ᲆ GEORGIAN CAPITAL LETTER YN
10C8 <reserved>
10C9 <reserved>
10CA <reserved>
10CB <reserved>
10CD Ᲊ GEORGIAN CAPITAL LETTER AEN

Mkhedruli

This is the modern secular alphabet, which is caseless.

10D0 ᆀ GEORGIAN LETTER AN
10D1 ᆁ GEORGIAN LETTER BAN
10D2 ᆂ GEORGIAN LETTER GAN
10D3 ᆃ GEORGIAN LETTER DON
10D4 ᆄ GEORGIAN LETTER EN
10D5 ᆅ GEORGIAN LETTER VIN
10D6 ᆆ GEORGIAN LETTER ZEN
10D7 ᆇ GEORGIAN LETTER TAN
10D8 ᆈ GEORGIAN LETTER IN
10D9 ᆉ GEORGIAN LETTER KAN
10DA ᆊ GEORGIAN LETTER LAS
10DB ᆋ GEORGIAN LETTER MAN
Small letters (Khutsuri)
This is the lowercase of the old ecclesiastical alphabet. See the Georgian block for uppercase Asomtavruli.

| 2D00 | 2D01 | 2D02 | 2D03 | 2D04 | 2D05 | 2D06 | 2D07 | 2D08 | 2D09 | 2D0A | 2D0B | 2D0C | 2D0D | 2D0E | 2D0F | 2D10 | 2D11 | 2D12 | 2D13 | 2D14 | 2D15 | 2D16 | 2D17 | 2D18 | 2D19 | 2D1A | 2D1B | 2D1C | 2D1D | 2D1E | 2D1F |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| GEORGIAN SMALL LETTER AN | GEORGIAN SMALL LETTER BAN | GEORGIAN SMALL LETTER GAN | GEORGIAN SMALL LETTER DON | GEORGIAN SMALL LETTER EN | GEORGIAN SMALL LETTER VIN | GEORGIAN SMALL LETTER ZEN | GEORGIAN SMALL LETTER TAN | GEORGIAN SMALL LETTER IN | GEORGIAN SMALL LETTER KAN | GEORGIAN SMALL LETTER LAS | GEORGIAN SMALL LETTER MAN | GEORGIAN SMALL LETTER NAR | GEORGIAN SMALL LETTER ON | GEORGIAN SMALL LETTER PAR | GEORGIAN SMALL LETTER ZHAR | GEORGIAN SMALL LETTER RAE | GEORGIAN SMALL LETTER SAN | GEORGIAN SMALL LETTER TAR | GEORGIAN SMALL LETTER UN | GEORGIAN SMALL LETTER PHAR | GEORGIAN SMALL LETTER Khar | GEORGIAN SMALL LETTER GHAN | GEORGIAN SMALL LETTER QAR | GEORGIAN SMALL LETTER SHIN | GEORGIAN SMALL LETTER CHIN | GEORGIAN SMALL LETTER CAN | GEORGIAN SMALL LETTER JIL | GEORGIAN SMALL LETTER CIL | GEORGIAN SMALL LETTER CHAR | GEORGIAN SMALL LETTER XAN | GEORGIAN SMALL LETTER JHAN | GEORGIAN SMALL LETTER HAE | GEORGIAN SMALL LETTER HE | GEORGIAN SMALL LETTER HIE | GEORGIAN SMALL LETTER WE | GEORGIAN SMALL LETTER HAR | GEORGIAN SMALL LETTER HOE |

Additional letters for Ossetian

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<td>2D2C</td>
<td>&lt;reserved&gt;</td>
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<tr>
<td>2D2D</td>
<td>GEORGIAN SMALL LETTER AEN</td>
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</table>
Figures.

Figure 1. Sample showing GEORGIAN LETTER AEN in Ossetian. In the title it is shown in the mtavruli style.
Figure 2. Sample showing GEORGIAN LETTER AEN in Ossetian.
Figure 3. Sample showing GEORGIAN LETTER AEN in Ossetian.
Figure 4. Sample showing GEORGIAN LETTER HARD SIGN in Abkhaz.
Figure 5. Sample showing GEORGIAN LETTER LABIAL SIGN in Abkhaz.
Figure 6. Sample showing GEORGIAN LETTER HARD SIGN and GEORGIAN LETTER LABIAL SIGN in Abkhaz.
Figure 7. Sample showing GEORGIAN LETTER HARD SIGN in Abkhaz.
Figure 8. Sample showing GEORGIAN LETTER LABIAL SIGN in Abkhaz.
Figure 9. Abkhaz alphabet table (*apsua alfavit*) showing GEORGIAN LETTER HARD SIGN and GEORGIAN LETTER LABIAL SIGN in Abkhaz.
Figure 10. Sample of Ossetian text in Nuskhuri, showing GEORGIAN CAPITAL LETTER YN and GEORGIAN SMALL LETTER YN indicated with plain arrows and what appears to be GEORGIAN SMALL LETTER AEN indicated with the fletched arrow. From Ialguzidze 1820–1824. In this example the capital YNs are not properly designed; they are not meant to descend below the line.
Figure 11. Sample of Ossetian text in Nuskhuri, showing GEORGIAN CAPITAL LETTER AEN and GEORGIAN SMALL LETTER AEN with plain arrows alongside GEORGIAN CAPITAL LETTER YN and GEORGIAN SMALL LETTER YN with fletched arrows. From Ialguzidze 1820–1824.

The letters here are designed with correct proportions and position, as Ⴧ ⴧ Ⴭ ⴭ.
A. Administrative
1. Title
Proposal for encoding Georgian and Nuskhuri letters for Ossetian and Abkhaz
2. Requester’s name
UC Berkeley Script Encoding Initiative (Universal Scripts Project)
3. Requester type (Member body/Liaison/Individual contribution)
Liaison contribution.
4. Submission date
2010-02-17
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)
No.
1b. Proposed name of script
1c. The proposal is for addition of character(s) to an existing block
Yes
1d. Name of the existing block
Georgian, Georgian Supplement
2. Number of characters in proposal
7.
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 A.
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?
The authors.
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?
Linguists, Caucasianists.

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

Used historically and in modern editions.

4b. Reference

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

Yes.

5b. If YES, where?

Scholarly publications.

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

Yes.

6b. If YES, is a rationale provided?

Yes.

6c. If YES, reference

 Accordance with the Roadmap. Keep with other Georgian characters.

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

No.

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)?

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?