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

Doc Type: Working Group Document

Title: Revised proposal to encode four historic Latin letters for Sakha (Yakut)

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Status: Expert Contribution

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

Date: 2012-01-29 Replaces: L2/11-340

"Notes on the character names" were added to the section "2. Proposed characters" in answer to the question raised in L2/11-340.

(The repertoire of proposed characters and all their properties are left unchanged.)

1. Introduction

Sakha (ISO 639: sah, also known as Yakut) is a language spoken by 456.288 people according to the 2002 census [2], mainly in the area which today is the Sakha Republic, a federal subject of Russia located in the north east of Siberia.

Some Cyrillic orthographies devised in the 19th century did not yield a larger success in alphabetization. Based on this fact and the feeling that the former orthographies did not reflect the phonemes of the language sufficiently, the linguist Semyon Andreyevich Novgorodov (semen nəʃurɪwdap, Səmən Noğoruodap, 1892–1924) devised a Latin orthography using a subset of IPA, augmented by four letters for specific diphthongs which are proposed here. This orthography did use lowercase letters only (like IPA).

This orthography was introduced 1917 in the wake of the Russian revolution, and it was the official orthography of the Sakha language until 1927, when the alphabet was changed again.

Details can be found in [3].

2. Proposed Characters

Block: Latin Extended-E

Historic letters for Sakha (Yakut)

These letters were used 1917–1927 in the official IPA-based Latin orthography of that era.

C U+AB60 LATIN SMALL LETTER SAKHA IE

U+AB61 LATIN SMALL LETTER SAKHA IA

U+AB62 LATIN SMALL LETTER OPEN OE

→ 0254 latin small letter open o

U U+AB63 LATIN SMALL LETTER UO

Notes on the character names

The names of the characters proposed here as "LATIN SMALL LETTER OPEN OE" and "LATIN SMALL LETTER UO" are derived from their shape. It is not unlikely that such letters are found when still unencoded repertoires of dialectological transcriptions are researched (see e.g. some examples of similar letters in recent proposals for German dialectology).

Thus, names which describe their obvious composition are proposed here.

The two other characters, which are not derivable as obviously and concisely from their shape, are named according to their use in the Sakha orthography which they are part of.

Properties:

```
AB60; LATIN SMALL LETTER SAKHA IE; Ll; 0; L;;;; N;;;; AB61; LATIN SMALL LETTER SAKHA IA; Ll; 0; L;;;; N;;;; AB62; LATIN SMALL LETTER OPEN OE; Ll; 0; L;;;; N;;;; AB63; LATIN SMALL LETTER UO; Ll; 0; L;;;; N;;;;
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3. References

Here, references are listed which are used in the introduction part of this proposal. References applying to single figures are given in the figure legend.

- [1] Юшманов, Николай Владимирович: Определитель Языков. Москва/Ленинград 1941
- [2] <a href="http://ru.wikipedia.org/wiki/%do%af%do%ba
- [3] http://ilin-yakutsk.narod.ru/1999-12/50-2.htm (retrieved 2011-09-05; in Russian)
- [4] Новогородов С.А. Первые шаги якутской письменности. Статьи и письма. М.: Наука, 1977.
- [5] saqalu: suruk bicik, Yakutsk 1917
- [6] nəʃurwdap, semen (Novgorodov, S. A.); et al., suruk bicik. mɔskuba (Moscow) 1923
- [7] Будищев, И. П.; Русско-якутский словар. Якутск 1926

4. Examples and Figures

Fig. 1: [1], p. 28/29. This table shows a compilation of special Latin letters used in orthographies of languages of the Soviet Union before the publication of [1] (1941). The Yakut letters proposed here are marked. (The table shows several other letters not contained in Unicode 6.0, which are not subject of this proposal.)

Таблица II Латиницы языков СССР

В алфавитный список не включены первичные латиницы, замененные впоследствии другими: абхазская (особенности — ә, ћ, і, ј, ф, ш, Ә, у; буквы с точками, как і, ў, кружками, как пр. зубчиками, как р, черточкой, как t); кабардинская (особенности — à, è, ỳ; ç, l, ş; х; h; сочетания типа fh, хи, qhu); якутская букв и знаков препинания нет).

Ингушская, осетинская и чеченская латиницы употребляли много сочетаний согласных с -h взамен особых букв кавказских языков. Языки народов Севера пользовались значками: — над гласными (удэйский, эвенкийский, эвенский), под согласными (ительменский, ненецкий, нивхский, саамский, селькупский) и ' после согласных (ительменский, ниежский, нымыланский, эскимосский).

```
а вепс., ижор., ингуш., карел.
                                   1 хакасский
                                                                       й чеченский
а адыгейский
                                   1 тувинский
                                                                       ū cm. ŭ, ů
а ингуш., кетский, осет., сель-
                                   к кавказские, курдский
                                                                       й казах., каракалпакский
     купский, удэйский
                                   ћ, в адыгейский
                                                                       й таджикский
č ингуш., осет., чеченский
                                   с адыг., кабардинский
                                                                       х ингуш., чеченский
€ курдский, саамский
                                   й авар., ительм., хант., эским.
                                                                       х дагестанские
1 абаз., авар., адыг., кабард.
                                                                       х дагест., шугнанский
đ абхаз., адыг., башк., шугн.
                                   ў хантыйский
                                                                       🗙 абаз., адыг., кабард.
d адыг., белуджский
                                   п, ингуш., тюркские, чеченский
                                                                       ž ингуш., осет., чеченский

ә [большинство ²]

                                   у языки народов Севера
                                                                       д кавказские
э курдский

вепс., ижор., карел., чеченский

                                                                      и дунганский
1 абаз., абхаз., адыг., кабард.
                                   ө Гбольшинство 57
                                                                       ф абазинский, абхазский
                                   Р адыгейский
                                                                       г даргинский, табасаранский
д адыгейский
                                                                       з кавказские, нанайский, саам..
                                   р абаз., абхаз., кабард.
от [большинство 3]
                                                                            удэйск., эвенк., эвенск.
                                   р дагест. (кроме авар.), курд.
ћ абаз., адыг., дагест., курд.,
                                   р адыгейский
                                                                      3 коми
                                   q абаз., абхаз., дагест., ка-
                                                                      з саамский, шугнанский
h дагест., татск., шугнанский
                                        бард.
                                                                       ч, ч абазинский, абхазский
ћ абаз., кабардинский
                                   ғ нивхский
                                                                      ь [большинство 8]
ћ абаз., адыг., кабардинский
                                   š адыг., ингуш., чеченский
                                                                      г, ў адыгейский
в ингуш., кабардинский, кет-
                                                                      т, д абаз., абхаз., кабард.

§ [большинство <sup>6</sup>]

     ский, маньс., ненецкий,
                                   в дагест., маньс., саам., хант.
                                                                      J абаз., абхаз., адыгейский
     нивх., осет.
                                   Г абазинский, абхазский
                                                                      т, адыгейский
ы адыгейский
                                   t белудж., кавк., курд., сир.
                                                                       ц, ц абаз., абхаз., кабард.
1 абазинский, абхазский
                                   т адыг., башк., шугнанский
                                                                        вепс., таджикский, тюркские
ї таджикский
                                   Р, р абхазский
                                                                            (реже другие).
```

ě

¹ Вепсский, ижорский, иранские, кавказские, карельский, сирийский, тюркские (кроме башк., ногайск., тувин.).
2 Иранские (кроме талжик.), кавказские (кроме абаз., авар., кабард.), северные (кроме ительм., маньс., нымыл.), сирийский, тюркские (кроме карач.-балк., киргиз., крым.-тат., кумык., ногайск., ойрот., тувин., узбек., хакас., шор., якут.).
3 Иранские, кавказские (кроме адыг.), тюркские (кроме ойрот., туркмен., хакас., шор.).
4 Кроме азербайджанского.
5 То ркские (кроме узбек.) и еще: бурятский, калмыцкий, лакский, лезгинский, селькупский, удэйский, ханыйский, шугнанский.

Вепсский, ижорский, иранские, кавказские (кроме адыг.), карельский, сирийский, тюркские (кроме казах.). Вепсский, ижорский, иранские (кроме татск.), кавказские (кроме адыг.), карельский, кетский, саамский, сирийский, тюрк-

ские (кроме казах., каракали.). 8 Ижорский, курдский, северные (кроме маньс., нанайск., нивх., удэйск., эвенк.), сирийский, тюркские (кроме узбек., уйгур.).

Fig. 2: Title page and alphabet page from [5], pictures taken from [4].



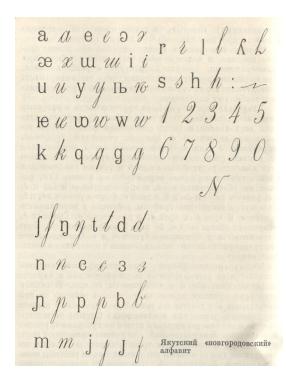


Fig. 3: Title page from [6].

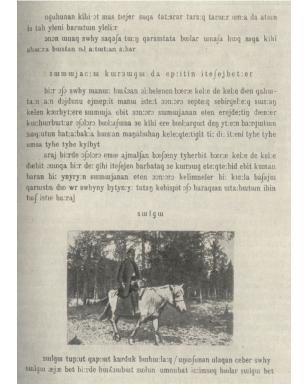


Fig. 5: Sample pages from several books using the Sakha orthography containing the proposed letters..









iJe u:hun atu:lu:r artıla

J

əfə ifetin y:tyn ispetitten xlxr

tıb sənə bulbut astarum, bulbut bultarum tuği eugahuma: fur atu: huttarga atu: lu: llar. atu: huttus tuspa ələrər səntən qaja bafarar albumna: twkejde:n ulan bejetin bassum qaŋatar budar. atu: hut bassum qaŋatar ərduk buluq ete. ənuqafa ije u: ha ije u: hunan qələbələn artısl əŋəstən, bular talar astarum wllerin, bultarum altarum keppereti: pke isənen du:, kæmyske tiejen issen du:, siŋ sıbnatugar atu: la:n tuhanısıq etiler. tıb kihite bular talar aha wle elbeq—aru:, y:t, qajaq, swhytyn ete tir: ite, baha tujafa. tıb kihite bultur bulta alta da: elbeq—tıb bultuttan tabata tajafa, kæter kumatta: qtan kuha, qa: ha, u: bultuttan eŋin eŋin taŋnaru qaju: la: fum ara: ha... tuq da: kıbma suq... artısı bu manu barutum tymen qəlbə: n tupsaran əŋənrə, barar siriger keppereti: pterqe du: kemysterge du: atu: lu: turdafuna, bu baruta ulaqan kæsy: ske turu ete. bu mantan kura sən ulaqannuk tuhanıb etiler.

qəmu:nasa qəlbəhən ələqputun əŋəstərbut əruskwta swq bwlwqta:q.

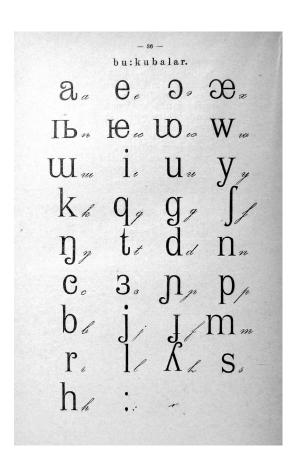
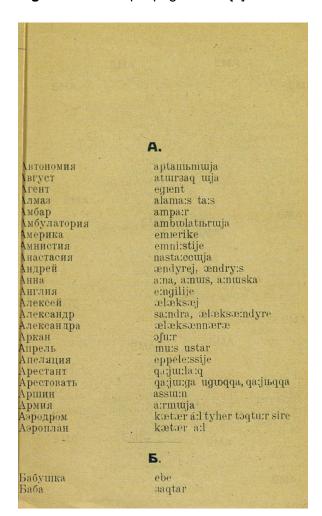


Fig. 6: Two sample pages from [7].



84.	
Большие шали есть?	ulaqan sa:l buda:t ba:r
	dio?
Покажите одеяла?	surfanna kærdær?
Шапка есть?	bergehe ba:r dw?
Картуз есть?	? (with distribution)
Покажите шарфы?	sa;rta kærdær ere? kur ba;r du?
Пояс есть? Машинные нитки есть?	massu:na saba b :r duo?
Серые нитки есть?	dwn sap ba:r dw?
Полушубки есть?	kulgas bara:n sən ba:r
Что стоит?	sınata təhənyj? (tuguj?)
Дайте кирпич чаю?	bi:r kippi:cee ca:jda afal?
Дайте три фунта чаю	ys mu:nta ot caida afal?
байхового	
Дайте два фунта сахару?	ikki mu:nta sa:qarda afal?
Свесьте карамели	su:la:q qampıstta uıja:
Дайте мониасье	lampasыj qampыtta afal
Рубашечные пуговицы есть?	arba:fut timefe ba:r duo?
Пуговицы для пальто есть?	son timefe ba:r dw?
Какие пуговицы пужны?	gajdag timeg na:da?
Что стоит дюжина?	su:hunata qaska turar?
Сапоги есть?	sappuku ba:r dw?
Катанки есть?	ka:tunka ba:r duo?
Войлок есть?	Sub r:sd pcs?aud
Почем цена?	sьnata tæhænyj?
Покажите швейные ма- шины	i:stener massu:nata kærdær ere?
Хорошая машина?	ycygej massu:na dw?
Что стонт?	sınata tæhænyj?
Машинные иголки есть?	massu:na innete ba:r dw?
Отпустите мне один	miege bi:r mu:nta bwraftii
фунт пороху и пять	kutta bies mu:nta dara-
фунтов дроби	mw:nata wja: ere
Все это что стоит?	bu baruta tæhæfæ turar?

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 106461

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

Δ Administrative

A. Administrative			
	historic Latin letters for Sakha (Yakut)		
	rlan Jumagueldinov, Karl Pentzlin		
Requester type (Member body/Liaison/Individual contribution)	individual contribution		
4. Submission date:	2012-01-29		
5. Requester's reference (if applicable):			
6. Choose one of the following:			
This is a complete proposal:	Yes		
(or) More information will be provided later:			
B. Technical – General			
Choose one of the following:			
a. This proposal is for a new script (set of characters):	No		
Proposed name of script:			
 b. The proposal is for addition of character(s) to an existing 	g block: Yes		
Name of the existing block:	Latin Extended-E		
2. Number of characters in proposal:	4		
3. Proposed category (select one from below - see section 2.2 c	of P&P document):		
A-Contemporary B.1-Specialized (small collection)			
C-Major extinct D-Attested extinct	E-Minor extinct		
F-Archaic Hieroglyphic or Ideographic	G-Obscure or questionable usage symbols		
- · · · · · · · · · · · · · · · · · · ·			
4. Is a repertoire including character names provided?	Yes Yes		
a. If YES, are the names in accordance with the "characte in Annex L of P&P document?			
	Yes		
b. Are the character shapes attached in a legible form suit	able for review? Yes		
5. Fonts related:	D 1 1 E 11		
a. Who will provide the appropriate computerized font to the standard?	ie Project Editor of 10646 for publishing the		
Karl Pentzlin; font available at http://ww	MW pentalin com/sakhaletters1 ttf		
b. Identify the party granting a license for use of the font b			
	omain by the author		
6. References:			
a. Are references (to other character sets, dictionaries, de			
b. Are published examples of use (such as samples from the same of	V		
of proposed characters attached?	Yes		
7. Special encoding issues:			
Does the proposal address other aspects of character data			
presentation, sorting, searching, indexing, transliteration e	tc. (if yes please enclose information)? n/a		
8. Additional Information:			
Submitters are invited to provide any additional information about	ut 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.un			
see Unicode Character Database (http://www.unicode.org/repo			
for information needed for consideration by the Unicode Technic	al Committee for inclusion in the Unicode Standard.		

Revised proposal to encode four historic Latin letters for Sakha (Yakut) 2012-01-29

 $^{^{1}\} Form\ number:\ N3902-F\ (Original\ 1994-10-14;\ Revised\ 1995-01,\ 1995-04,\ 1996-04,\ 1996-08,\ 1999-03,\ 2001-05,\ 2001-09,\ 2003-11,\ 2005-01,\ 2005-09,\ 2005-10,\ 2007-03,\ 2008-05,\ 2009-11,\ 2011-03)$

C. Technical - Justification

Has this proposal for addition of character(s) been submitted before? Complete Complete	No
If YES explain	
2. Has contact been made to members of the user community (for example: National Body,	Yes
user groups of the script or characters, other experts, etc.)? If YES, with whom? Linguists, Librarians	163
If VEC quellable relevant de comente.	-
3. Information on the user community for the proposed characters (for example:	Yes
size, demographics, information technology use, or publishing use) is included? Reference: see text	763
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ally common
Reference: see text	
' '	and scientific
If YES, where? Reference: see text	
6. After giving due considerations to the principles in the P&P document must the proposed characters	
in the BMP?	Yes
If YES, is a rationale provided?	Yes
If YES, reference: To keep them in line with similar characters	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)? Yes
8. Can any of the proposed characters be considered a presentation form of an existing	
character or character sequence?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	-
9. Can any of the proposed characters be encoded using a composed character sequence of either	
existing characters or other proposed characters?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)	
to an existing character?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	No
If YES, is a rationale for such use provided?	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provide	ed?
If YES, reference:	
12. Does the proposal contain characters with any special properties such as	
control function or similar semantics?	No
If YES, describe in detail (include attachment if necessary)	_
13. Does the proposal contain any Ideographic compatibility characters?	No
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	