L2/23-066

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

Doc Type: Working Group Document

Title: Glyph Corrections for Eight Tangut Ideographs

Source: Andrew West

Status: Individual Contribution

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

Date: 2023-03-01

This document requests glyph corrections for the eight Tangut ideographs listed in the table below.

Table 1. Summary of Glyph Corrections for 8 Tangut Ideographs

Code Point	Current Glyph	New Glyph	Current Radical/ Strokes (V. 15.0)	Proposed New Radical/ Strokes
U+17105	袞	泵	11.10	11.9
U+172A4	浆	痰	36.8	36.8
U+17BD1	拥	瓶	169.9	169.9
U+17BD2	誷	赮	169.12	169.12
U+17BD3	穮	攏	169.13	169.13
U+17EF9	盤	盤	260.17	260.17
U+18136	綤	잵	316.10	316.10
U+18171	깨	那	316.15	316.15

Three of the proposed changes (17BD1..17BD3) show a structural repositioning of the component next to the component * which reflects the actual glyph forms found in the primary sources. The other five proposed changes relate to supplementary characters added to the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (pages 945–952, nos. 5995–6074) which were mostly sourced from 魔术 Joined Rimes of the Fives Sounds (surviving in six partial manuscript versions) and some other manuscript texts which we had not previously carefully checked. The glyph forms for these eighty supplementary characters have now all been verified as best as we can given the poor quality of some of the hand-written character forms.

Tangut Data Changes

One of the proposed glyph corrections involve a change in stroke count, which if accepted would necessitate a change in the Tangut data files for the Unicode and ISO/IEC 10646 standards. The affected line in the data files is listed below.

Current (15.0):

U+17105 kRSTUnicode 11.10

New:

U+17105 kRSTUnicode 11.9

Bibliography

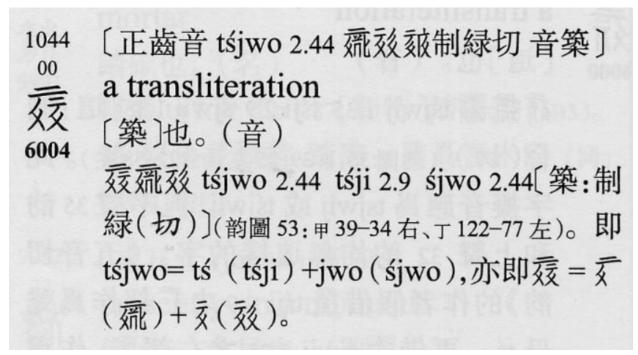
Lǐ Fànwén 李範文 (comp.) and Jiǎ Chángyè 賈常業 (rev. and exp.). 2008. Xià-Hàn zìdiǎn 夏漢字典 [Tangut-Chinese dictionary (revised ed.)]. Běijīng 北京: Zhōngguó shèhuì kēxué chūbǎnshè 中国社会科学出版社. ISBN 978-7-5004-2113-9

Evidence for Glyph Corrections

U+17105 쥻

U+17105 ፳ tśjwo is only attested in a single manuscript source, 飯龍皷融 Joined Rimes of the Fives Sounds, and is entry #6004 in the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (see Fig. 1).

Fig. 1. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 946 entry for #6004



This analysis is confirmed by the extant manuscript versions of *Joined Rimes of the Fives Sounds* which do indeed show \overline{g} (see Figs. 2 and 3).

Fig. 2. IOM Tang. 22, Old Inv. No. 620 (旋龍颏糠 MS A) folio 34B

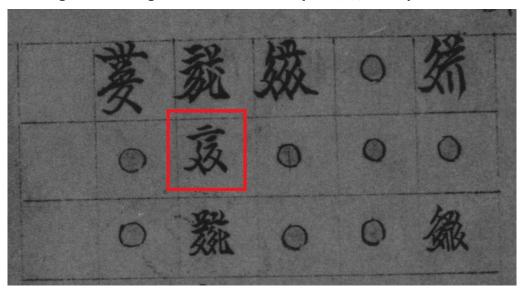
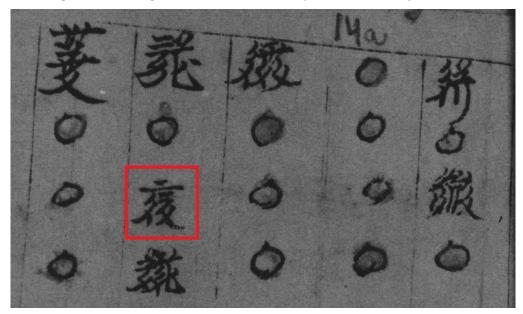


Fig. 3. IOM Tang. 22, Old Inv. No. 621 (旋龍皷糠 MS B) folio 14A



U+172A4 级

Fig. 4. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 948 entry for #6031

Lǐ Fànwén explains the character as being constructed from the left side of % tsior and the left side and middle part of % ljwa, with the fănqiè 反切 spelling of tsja from these two characters. This implies that the right component of % should be % rather than §. This is confirmed by the manuscript versions of Joined Rimes of the Fives Sounds which all clearly show § on the right side (see Figs. 5 and 6 for two of the five extant examples). This glyph shape contrasts with the glyph shape for § seen in printed and manuscript sources (sometimes 3-shaped):

U+17B03 疑 (printed form)





Joined Rimes of the Fives Sounds 飯龍藪糠 MS A 12A

Fig. 5. IOM Tang. 22, Old Inv. No. 620 (旋龍皷穮 MS A) folio 18A

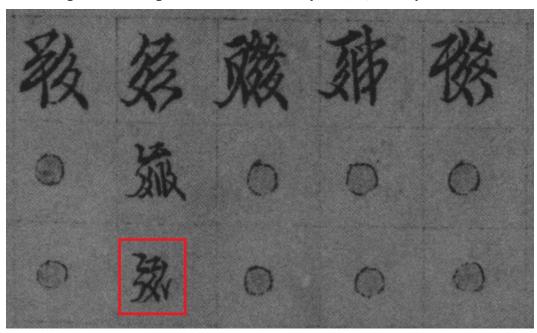
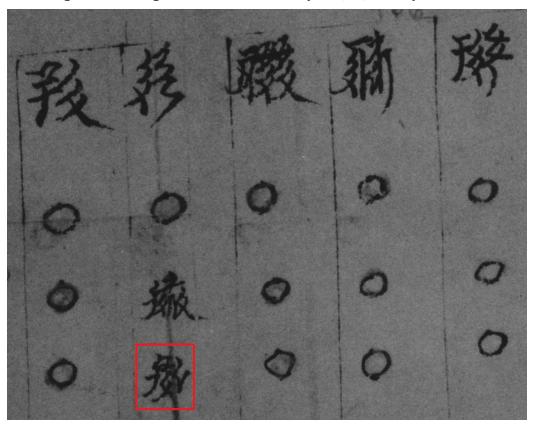


Fig. 6. IOM Tang. 22, Old Inv. No. 621 (旋龍颏穮 MS B) folio 16B



The only other character with \checkmark on the right side is U+17BD4 %, and the woodblock printed editions of *Homophones* confirm that the right side is indeed the same shape as seen for U+172A4 in the manuscript versions of *Joined Rimes of the Fives Sounds* (i.e. \checkmark):

U+17BD4 彩

U+17BD4 彩





U+17BD1, U+17BD2, and U+17BD3 維糏維

In the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary the component to the right of \sharp in the three characters U+17BD1, U+17BD2, and U+17BD3 is written full-height, i.e. \sharp \sharp , \sharp , \sharp , and \sharp \sharp respectively (see Figs. 7, 8 and 9).

Fig. 7. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 921 entry for #5848

Fig. 8. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 922 entry for #5854

Fig. 9. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 939 entry for #5964

稿[齒頭音 tsha 2.14 音操]5964a transliteration[操]、[粲]、[朝]、[參]族姓、譯音也。(音)網絡 tsha 2.14 mer 1.86 mu 2.25[操彌没][操]:族姓(同 29B2)。

However, almost all primary sources show that the right component of U+17BD1 and the middle components of U+17BD2 and U+17BD3 are tucked into the gap of \$, i.e. $\boxed{3}$ $\boxed{4}$, $\boxed{5}$, and $\boxed{3}$ $\boxed{4}$ $\boxed{5}$, and $\boxed{3}$ $\boxed{5}$ respectively. Examples from a variety of sources are shown below. Only *Homophones* Edition A shows forms that are not completely tucked into \$, but the A edition is generally less reliable with regard to glyph forms than the B edition of *Homophones*.

U+17BD1

Sea of Writing 1:58.161	Homophones A 34A45	Homophones B 34B44	Pearl in the Palm A 224E	Joined Rimes of the Five Sounds A 6B	Joined Rimes of the Five Sounds B 5A
維	瓶	维	编	痲	樂

U+17BD2

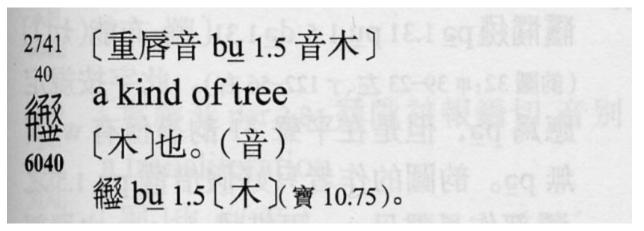
Homophones A 29B28	Homophones B 30A65	Grains of Gold 5A4	Forest of Categories 4:01A3	Mixed Characters 11B7
繖	徽	糊	称	龙

U+17BD3

Sea of Writing 3:5.143	Homophones A 33B47	Homophones B 34A57	IOM Tang.27 29B
쵊	艫	維	礁

U+17EF9 綴

Fig. 10. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 949 entry for #6040



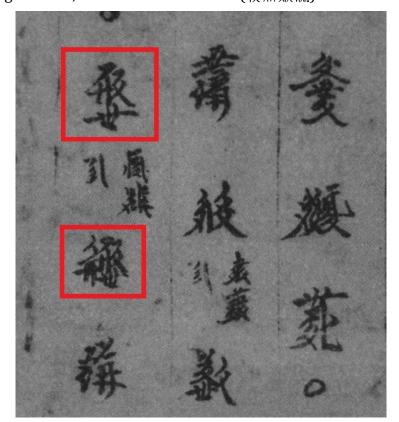


Fig. 12. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 947 entry for #6019

Fig. 13. IOM Tang. 22, Old Inv. No. 622 (飯朮玆்் MS C) folio 9B

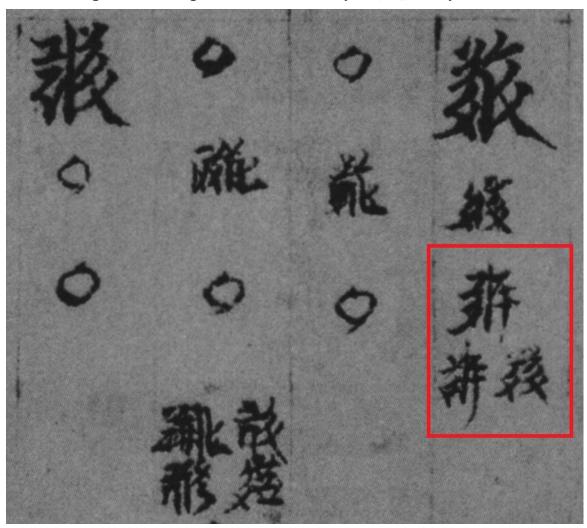


Fig. 14. IOM Tang. 22, Old Inv. No. 623 (疯稚颏穮 MS D) folio 68B

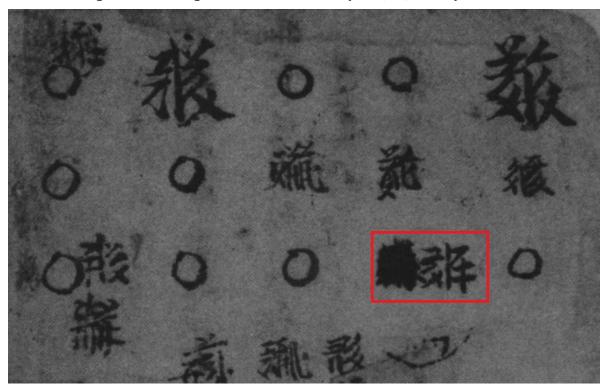


Fig. 15. IOM Tang. 22, Old Inv. No. 624 (飯朮藪穮 MS E) folio 37

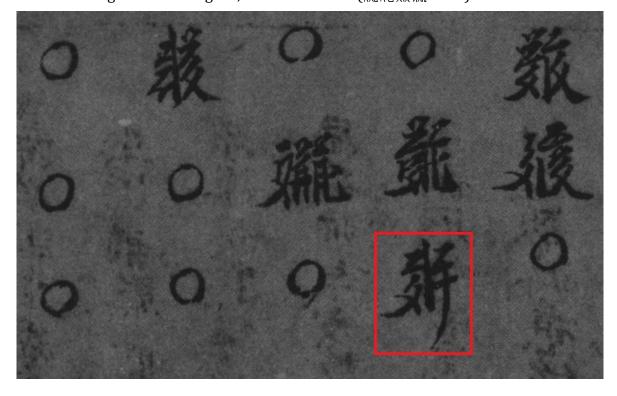


Fig. 16. Lǐ Fànwén, *Xià-Hàn zìdiăn* (2008) p. 946 entry for #6007

This character is explained by Lǐ Fànwén as being constructed from the left side of U+18139 $\overline{3}$ two and the whole of U+17154 情 śjwa, with the fǎnqiè 反切 spelling of tjwa from these two characters.

U+18171 " only occurs in three manuscript versions of 飯元 藏藏 *Joined Rimes of the Fives Sounds* (see Figs. 17, 18, and 19), where the actual glyph form shows that the left middle vertical stroke is placed underneath the top part of the left side component.

Additionally, the radical for U+18171 was changed from 316 3×10^{10} to 768 3×10^{10} in Unicode 14.0 (see WG2 N5134; L2/20-166), but this was a mistake as can be seen from the actual glyph form in the original texts, as well as its presumed construction from the left side of U+18139 3×10^{10} .

Fig. 17. IOM Tang. 22, Old Inv. No. 620 (疯龍颏穮 MS A) folio 18b

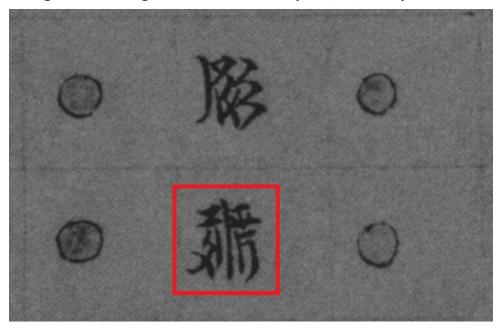


Fig. 18. IOM Tang. 22, Old Inv. No. 623 (疯乖颏穮 MS D) folio 24a



Fig. 19. IOM Tang. 22, Old Inv. No. 624 (庭龍皷藤 MS E) folio 4

