

Charts WG Report to UTC #186

January 16, 2026

Liang Hai, UTC Charts Working Group

Participants: Asmus Freytag, Jan Kučera, Ken Whistler, Liang Hai (vice-chair), Michel Suignard (chair), Peter Constable.

Meeting dates since the last report: November 21, December 5, December 19, January 16.

Table of contents:

- [1. Version 18.0 progress](#)
- [2. Public feedback](#)
- [3. Infrastructure improvements](#)

1. Version 18.0 progress

Michel has committed the source files for 18.0 alpha. Following our tradition, Michel will directly produce the alpha charts for publication. We may shadow his chart production for QA purposes.

The representative glyphs resource will be updated to 18.0 alpha, so downstream projects like the core spec can start displaying the representative glyphs of 18.0 characters.

Michel plans to migrate certain scripts to new chart fonts:

- Alpha:
 - Armenian: [Noto Serif Armenian](#)
 - Khitan Small Script: [Khitan Small Linear](#)
- After alpha:
 - Latin, Cyrillic, Greek: [Times New Roman](#) (Licensing from Microsoft is in progress.)

2. Public feedback

Date/Time: Thur Oct 30 20:42:39 PST 2025

ReportID: [ID20251030204239](#)

Name: Roozbeh Pournader

Report Type: Report Error in Publication/Data

Opt Subject: End of some blocks misidentified in PDF charts

The character at the end of some blocks is misidentified in the PDF charts. For example, the Tangut Supplement block is specified in Blocks.txt as 18D00..18D7F, while in its PDF chart at <https://www.unicode.org/charts/PDF/U18D00.pdf> there is no mention of 187DF and there's only a range of assigned characters: 18D00–18D1E.

Compare this with the Cuneiform block, where despite the characters ending at 12399, the end of the block is clearly specified as 123FF on both the first page of the PDF (<https://www.unicode.org/charts/PDF/U12000.pdf>) and the top right header on its fifth page (the page numbered 1415).

The inconsistency may have its own reason (different chart style), but it's confusing to users. I had to check the Blocks.txt file to find out where the actual block ends, which may not be an obvious place to look for most users of the standard.

Comments: We have seen a few similar reports recently. However, this known issue is a result of certain historical and architectural decisions of Unibook, and therefore cannot be easily modified. We have added some clarification about this quirk in the core spec under *Section 24.1.13, Block Headers*:

The range listed on the cover page for a code chart file indicates the range of code points actually documented in that file. Unassigned code points at the end of a block may be elided, and in that case, the “Range” does not extend to the end of the block. For example, the Tangut Supplement block for Unicode 17.0 in Blocks.txt has the range U+18D00..U+18D7F, but the code chart does not document the range of unassigned code points U+18D1F..U+18D7F at the end. The range is therefore listed on the cover page as “18D00–18D1E”.

3. Infrastructure improvements

Michel has committed the French charts' source files into the repo. Liang has started integrating them into the chart production tooling.

The several source controlled pages under <https://unicode.org/charts/> are now deployed from the repo with an rsync-based GitHub workflow.

Liang still plans to develop tooling to generate modernized auxiliary charts, aiming for the 18.0 release.