



Chinese Transcription of Buddhist Terms in the Late Hàn Dynasty

DATA PAPER

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ABSTRACT

This dataset is a compilation of Chinese transcriptions of Buddhist terms produced by translators from the late Hàn period. It is a compilation of the previous works of Coblin (1983), Karashima (2010), Vetter (2012), Hill, Nattier, Granger, and Kollmeier (2020) for the Chinese transcriptions. To these were added phonological reconstructions of the Chinese terms for late Hàn from Schuessler (2009) and Middle Chinese from Baxter and Sagart (2014a), as well as the Gandhari equivalents of Sanskrit and Pāli terms from Baums and Glass (2002). This dataset, shared on Zenodo, aims at being the new state-of-the-art dataset on Buddhist transcription material and can be used by anyone working on Hàn Chinese phonology and will help better understanding the possible language sources of the Chinese transcriptions, as well as the phonology of the target Chinese dialects.

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(1) OVERVIEW

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CONTEXT

While Modern Chinese is known for its short words, its simple syllable structure, and its tones, in the distant past Chinese was a very different language; Old Chinese (1300–100 BCE) lacked tones, had complex syllable structure with consonant clusters, and used prefixes and suffixes to form new words. By the early 7th century, when the earliest extant Chinese pronunciation dictionary was published, Middle Chinese was already recognizably a form of the language we know today.

It was during the Hàn 漢 dynasty (206 BCE–220 CE) that the radical transition between those two stages occurred; it was the first enduring empire in Chinese history, and among the most formative periods for Chinese thought and literature. At this time, the Confucian cultural milieu accompanying classical scholarship thrived. The Confucian classics themselves were edited and (literally) set in stone, while poetry and belletristic prose flourished. The Hàn also saw unprecedented exposure to and influences from foreign cultures, from grapes to backgammon, with Buddhism standing out as the period's most abiding foreign influence.

As part of the spread of Buddhism from the west, works of Buddhist literature were brought to China and translated by teams of editors (Zürcher 2007); amongst them, three figures from the later days of the Hàn dynasty are worth mentioning:

- Ān Shigāo 安世高 (fl. 148–170), a Central Asian translator active in the Chinese imperial capital of Luòyáng 洛陽, was the first translator of Buddhist texts into Chinese whose name we know (Zacchetti 2019: 630).
- Lokakṣema (Zhī Lóujiāchèn 支婁迦讖) (fl. 147–189) was a Buddhist monk from Gandhara also active in Luòyáng (Harrison 2019: 700).
- Kāng Mèngxiáng 康孟詳, of whom little is known, but is generally considered to be born in China from Sogdian parents (Nattier 2008: 102).

These three figures are of particular interest to us here because of their use of transcription in their translations. For instance, while a concept such as *dharma* ended up being translated into Chinese as *puap 法 (rule, way, doctrine), it can also be found in the translations of Lokakṣema as *dəm-ma 曇摩, a phonetic transcription of a Prakrit word comparable to Pāli *damma* or Gandhari *dhamma*.

The most extensive discussion of the implication of such transcriptions for the phonology of Late Hàn Chinese is Coblin (1983). Since that publication, however, a lot of things have changed: new manuscripts have been discovered and their authorship has been attributed to Ān Shigāo (Zacchetti 2010: 264), providing new transcriptional data, while some other texts traditionally attributed to him have now been classified as later commentaries (Zacchetti 2010: 259–262); our understanding of Old Chinese phonology has dramatically changed and in particular it is now accepted that Old Chinese had a complex syllable structure with consonant clusters in syllable-initial and final position as well as prefixes and suffixes, cf. Baxter (1992), Baxter and Sagart (2014b); finally, our understanding of languages that could have been close to the source languages of the texts being translated by Ān Shigāo, Lokakṣema, and Kāng Mèngxiáng – in particular Gandhari (Baums 2009) – has progressed.

These developments make it necessary to revisit Coblin's conclusions regarding the contributions of the Buddhist transcriptional data to our understanding of Hàn Chinese, and the dataset presented here is an attempt to lay out all of the available Buddhist transcriptional data from the Late Hàn period and annotate it with state-of-the-art linguistic knowledge: Sanskrit, Pāli and Gandhari equivalents serve as points of comparison for what the pronunciation of the words might have been in the unknown source language, and Late Hàn Chinese and Middle Chinese reconstructions as illustrations of the transcriptions' target language.

BASE CORPUS

The basis of the dataset is Coblin (1983), whose Buddhist transcriptional data includes the following texts from the Taishō Tripiṭaka:

- Ān Shigāo
 - T13: *Cháng āhán shí bàofǎ jīng* 長阿含十報法經
 - T14: *Rén běn yù shēng jīng* 人本欲生經
 - T31: *Yī qiē liú shè shǒu yīn jīng* 一切流攝守因經
 - T32: *Sì dì jīng* 四諦經
 - T98: *Pǔfǎ yì jīng* 普法義經
 - T150A: *Zá jīng sishísi piān* 雜經四十四篇
 - T150A (1): *Qī chù sān guān jīng* 七處三觀經
 - T150A (30): *Jī gǔ [jīng]* 積骨[經]
 - T150A (31): *Jiǔ héng [jīng]* 九橫[經]
 - T602: *Dà ānbān shǒuyì jīng* 大安般守意經
 - T607: *Dào dì jīng* 道地經
- Lokakṣema¹
 - T224: *Dàoxíng bōrě jīng* 道行般若經²
 - T280: *Dōushā jīng* 兜沙經
 - T313: *Āchù fóguó jīng* 阿閼佛國經
 - T418: *Bānzhōu sānmèi jīng* 般舟三昧經
 - T458: *Wénshūshìlì wèn púsà shǔ jīng* 文殊師利問菩薩署經
 - T626: *Āshéshì wáng jīng* 阿闍世王經
- Kāng Mèngxiáng
 - T184: *Xiūxíng běnqǐ jīng* 修行本起經³
 - T196: *Zhōng běnqǐ jīng* 中本起經

ADDITIONS AND REMOVALS

Over the years, scholars have expressed doubts regarding the inclusion of this or that text to the corpus of these translators,⁴ while other texts were proposed for inclusion. For the Ān Shigāo corpus, a consensus gradually emerged and is described in detail in Zacchetti (2019), itself based on the work of Zürcher (1977) and Zürcher (1992). Some of the texts in Zacchetti's list were long considered to be part of Ān Shigāo's works but were not studied by Coblin. As a result, we added the following texts on top of Coblin's Ān Shigāo's corpus:

- T36: *Běnxìàng yīzhì jīng* 本相猗致經
- T48: *Shì fǎ fēi fǎ jīng* 是法非法經
- T57: *Lòu fēnbù jīng* 漏分佈經

¹ For a detailed discussion of Lokakṣema's extant corpus, cf. Harrison (1993), and Nattier (2008: 77–85) for a detailed segmentation of the texts into three tiers, each tier representing a level of proximity to Lokakṣema's own style, and the more distant tiers are posited to be indicative of later revisions of the text.

² It should be noted that the expected Mandarin reflex for 般若 – as transcribing a word in a Prakrit akin to Pāli *paññā* or Gandhari *praññā* ([pɾɐ̃ːɐ̃]) – would be *bānrě*: indeed, *bān* 般 had two MC pronunciations, *pan* and *pran*, respectively pointing to Eastern Hân *paːn and *praːn, being good fits for the first syllable of either Pāli *paññā* or Gandhari *praññā*, while *rě* 若 corresponds to MC *nyax*, pointing to Eastern Hân *nɟaʔ, a good match for *ña* (*ruò* 若 points to *nɟak). The standard rendition of 般若 as *bōrě* might suggest a later (hypercorrective) learned reading of 般 as transcribing the first syllable of Sanskrit *praññā*: *bō* points to Eastern Hân *p(r)aj. Nevertheless, as *bōrě* is the de facto standard pronunciation of the word, we use it in the title of T224.

³ While there is a consensus around T184 belonging to Kāng Mèngxiáng's corpus, one should note that the extant text appears to have undergone later revisions as late as the Eastern Jin 東晉 dynasty (266–420). See Nattier (2008: 104–109) for a discussion of the external and internal evidence, itself based on Kawano Satoshi 河野訓 (1991).

⁴ An in-depth discussion of each of the three translators can be found in Nattier (2008): for Ān Shigāo, see Nattier (2008: 41); for Lokakṣema, see Nattier (2008: 75); for Kāng Mèngxiáng, see Nattier (2008: 103).

- T101: *Zá āhán jīng* 雜阿含經
- T112: *Bā zhèng dào jīng* 八正道經
- T603: *Yīn chí rù jīng* 陰持入經
- T1508: *Āhán kǒu jiě shí'èr yīnyuán jīng* 阿含口解十二因緣經
- T1557: *Āpítán wǔ fǎ xíng jīng* 阿毘曇五法行經

In addition, T602 *Dà ānbān shǒuyì jīng* 大安般守意經, originally listed in Coblin (1983) was removed.⁵

For Lokakṣema and Kāng Mèngxiáng, no new texts were added, but for Lokakṣema more transcription words were added from T224 *Dàoxíng bōrě jīng* 道行般若經, on the basis of Karashima (2010).⁶ All the transcription material mentioned so far for the three translators can be found in Hill et al. (2020).

On top of these, two manuscripts⁷ discovered in 1999 in the Kongō-ji 金剛寺 temple were ascribed to Ān Shīgāo in Zacchetti (2010: 264); Vetter (2012), in his study of Ān Shīgāo's lexicon, includes material from the Kongō-ji as well as from T101,⁸ and we have retrieved the transcription material from there. The final Ān Shīgāo corpus, starting from Coblin (1983) and applying all the additions and removals, comprises the following texts:⁹

- T13: *Cháng āhán shí bàofǎ jīng* 長阿含十報法經
- T14: *Rén běn yù shēng jīng* 人本欲生經
- T31: *Yī qiē liú shè shǒu yīn jīng* 一切流攝守因經
- T32: *Sì dì jīng* 四諦經
- T36: *Běnxìàng yīzhì jīng* 本相猗致經
- T48: *Shì fǎ fēi fǎ jīng* 是法非法經
- T57: *Lòu fēnbù jīng* 漏分佈經
- T98: *Pǔfǎ yì jīng* 普法義經
- T101: *Zá āhán jīng* 雜阿含經
- T112: *Bā zhèng dào jīng* 八正道經
- T150A: *Zá jīng sishísi piān* 雜經四十四篇
- T150A (1): *Qī chù sān guān jīng* 七處三觀經
- T150A (30): *Jī gǔ [jīng]* 積骨[經]
- T150A (31): *Jiǔ héng [jīng]* 九橫[經]
- T603: *Yīn chí rù jīng* 陰持入經
- T607: *Dào dì jīng* 道地經
- T1508: *Āhán kǒu jiě shí'èr yīnyuán jīng* 阿含口解十二因緣經
- T1557: *Āpítán wǔ fǎ xíng jīng* 阿毘曇五法行經
- Kongō-ji: *Ānbān shǒuyì jīng* 安般守意經 ('KA')
- Kongō-ji: *Shí'èr mén jīng* 十二門經, *Jiě shí'èr mén jīng* 解十二門經, and the anonymous commentary ('TG')

5 T605 *Chán xíng fǎ xiǎng jīng* 禪行法想經 and T792 *Fǎ shòu chén jīng* 法受塵經, listed in Zacchetti (2010: 259) as needing to be removed from the Ān Shīgāo corpus, were not listed in Coblin's work.

6 Five texts attributed to Lokakṣema in the studies mentioned above are missing from our dataset: T282 (*Zhū púsà qiú fú běn yè jīng* 諸菩薩求佛本業經), T283 (*Púsà shí zhù xíng dào pīn* 菩薩十住行道品), T362 (*Āmituó sānyésān fō sālóufó tán guòdù réndào jīng* 阿彌陀三耶三佛薩樓佛檀過度人道經), T624 (*Dùnzhēntuóluó suǒ wèn rúlái sānmèi jīng* 鈍真陀羅所問如來三昧經), and T807 (*Nèi cáng bǎi bǎo jīng* 內藏百寶經) since – to the best of our knowledge – no collection of the transcriptions of Indic terms exists. We aim to address this gap in a future publication.

7 The two manuscripts are nearly identical and contain 4 different texts: *Ānbān shǒuyì jīng* 安般守意經 ('KA' in our dataset), *Shí'èr mén jīng* 十二門經, *Jiě shí'èr mén jīng* 解十二門經, and finally an anonymous commentary on the two previous texts, collectively 'TG' in our datasets.

8 T101's status is still a matter of controversy and Hill et al. (2020) chose not to include it. Following Harrison (2002), we have chosen to include it; it contributes 12 new entries to Ān Shīgāo's corpus, and our dataset is structured for it to be easy to filter it out if T101 is eventually deemed not to be from Ān Shīgāo.

9 Vetter (2012) includes T397(13) *Shí fāng púsà pīn* 十方菩薩品 in Ān Shīgāo's corpus; we follow Nattier (2008: 55–59) who convincingly argues that the text cannot be from the hand of Ān Shīgāo and excludes it.

Altogether, this forms the Chinese basis of our dataset, along with the identification of the corresponding Sanskrit and/or Pāli equivalents. For these, we have relied on the identification made in Vetter (2012) for the Kongō-ji texts and Hill et al. (2020) for the rest.

SOURCE SUMMARY

As a summary, the transcriptions listed in the dataset directly come from the following sources: for Ān Shigāo, we collate Hill et al. (2020), which expands Coblin's work with more texts and more entries for the existing texts, and Baley (2023), which collects transliteration terms from Vetter (2012) for the Kongō-ji 金剛寺. For Lokakṣema and Kāng Mèngxiáng, we use Hill et al. (2020) (which extends Coblin's work on Lokakṣema using Karashima (2010)). A comparison of the number of entries between Coblin (1983), Hill et al. (2020), and our dataset, for each translator, can be found in Table 1.¹⁰

TRANSLATOR	COBLIN 1983	HILL ET AL.	NEW DATASET
Ān Shigāo	33	33 ¹¹	67
Lokakṣema	257	280	280
Kāng Mèngxiáng	54	54	54

Table 1 Entries in Coblin (1983), Hill et al. (2020), and the present dataset.

INDIC TRANSCRIPTIONS

As the Sanskrit/Pāli information in Hill et al. (2020) was incomplete – for some entries only one of the two languages was provided – we have aimed to complete it where possible; in addition, we have used Baums and Glass (2002) to provide Gandhari equivalents to the Sanskrit/Pāli whenever we were able to identify such equivalents.¹² This will help explore the question of the translations' source language(s)¹³ from a quantitative as well as qualitative point of view. We think that expanding this process to other languages of Central Asia, as their scholarship improves, would be desirable; in particular, we aim to explore Tocharian equivalents in a later project.

CHINESE RECONSTRUCTIONS

We have added columns to provide reconstructions of various stages of Chinese phonology:

- Late Hàn: Schuessler (2007) and Schuessler (2009)
- Middle Chinese: we use the Middle Chinese transcription system (based on the rime books and rime tables) described in Baxter (1992)

(3) DATASET DESCRIPTION

OBJECT NAME

Chinese Transcription of Buddhist Terms in the Late Hàn Dynasty.

FORMAT NAMES AND VERSIONS

OpenDocument Spreadsheet

¹⁰ In the table, words occurring in multiple places in the corpus of a translator are counted as a single entry (with multiple locations).

¹¹ Of all the transcription words in the 7 extra works added in Hill et al. (2020) compared to Coblin (1983), all were already present in other Ān Shigāo texts, except for Āpítán 阿毘曇 in T1557's title which should not be treated as coming from Ān Shigāo because – as an anonymous reviewer suggested – the title is a later addition, and the word itself cannot be found within the text.

¹² For Gandhari, we have simply looked up Baums and Glass (2002); for missing Sanskrit / Pāli, we have relied on other entries in the database that had contained the same parts of words; for instance, while Baums and Glass (2002) does not contain an entry for Sanskrit *indradatta*, it does contain one for *indra* and *datta*, and so we have marked the Gandhari equivalent as *imdra+datta*, to indicate it is the result of two look-ups.

¹³ Cf. Boucher (1998) discussing why it might not be possible to prove that the source language is Gandhari.

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DATASET CREATORS

Julien Baley, SOAS University of London: Data curation, Investigation, Methodology, Validation.

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CONTRIBUTING

If you find errors in the dataset, please email the corresponding author.

(4) RE-USE POTENTIAL

By bringing together the scholarly work of many different scholars, this dataset can serve as the basis for further analysis of transcription practices of the Chinese Buddhist translators of the late Hàn dynasty. For instance, the question of the attributions of translation works is a recurring one and in the case of translators such as Ān Shigāo and Lokakṣema – as we have seen – the debate about the authorship of individual texts can take place over many centuries. Our dataset provides a quick reference that can help argue – on internal grounds – whether the transcriptional vocabulary used in a text is typical of a certain translation team and can therefore contribute to discussions of text attributions, including discussions of layering of the translation process.

Another potential re-use of our dataset is to help with interpreting Gandhari texts: a good number of the texts included in the present dataset are translations of texts that are no longer extant; with new excavations of manuscripts in Gandhari and other languages, as well as the gradual cataloguing of the existing ones, our dataset of equivalence between Chinese and Gandhari may help – in the future – to identify the source text of such translations or – since the editorial history of such texts is generally more complicated – at least to identify passages that bear similarities to our known Chinese texts and help interpret the Gandhari manuscripts and our understanding of the doctrinal development underlying the diffusion of such texts.

Finally, as the dataset contains Chinese transcriptions of Buddhist concepts and their equivalents in several languages, this information can be used to try and qualify the source language of those transcriptions. For example, does a given Chinese transcription of a Buddhist term show greater similarity to its equivalent in Sanskrit, Pāli, Gandhari or yet another language, and what does it tell us about the likely phonetic characteristics of the translation's source language?

In the earlier example of *dharma* transcribed by Lokakṣema as *dəm-ma 曇摩, as the reconstruction of a final *-m is certain for *dəm 曇, this seems to exclude the possibility of a transcription from Sanskrit *dharma*, and instead the choice of two syllables, the first ending in *-m and the second starting with *m- and would indicate a gemination in the source language, as is for instance found in Prakrits such as Pāli *damma* and Gandhari *dhamma*.

Following such analysis at the corpus level, does a trend emerge from all the transcriptions from a certain translator or translator team? For instance, one may notice in Ān Shigāo's transcriptions a certain trend for sibilants to match Gandhari better than Sanskrit or Pāli, as illustrated in [Table 2](#), while Lokakṣema – who was from Gandhara – shows more variation in

his transcriptions: some words match more closely Pāli models, as in his use of *ʔa tśan dai 阿旃陀 that better matches Pāli *accanta* than Skt. *atyanta* or Gdh. *acada*,¹⁴ while others show a Gandhari slant, such as *tśan diei 屬提 being closer to Gandhari *kṣamti*¹⁵ than to Pāli *khanti*.¹⁶

SANSKRIT	PALI	GANDHARI	CHINESE	SCHUESSLER LATE HÀN
Śāriputra	Sāriputta	Śāriputra	舍利弗	śa ^c li ^c put
śramaṇa	samaṇa	ṣamana	沙門	ṣa mən
kāṣāya	kāsāva	kaṣaya	袈裟	ka ṣa i

Table 2 Sibilants in Ān Shigāo's transcriptions closely match Gandhari.

Conversely, the parallel question can also be investigated: given the Chinese transcriptions, what can one learn about the dialect of Chinese spoken by the translator team? What phonological features of that dialect can be discovered from the choice of Chinese characters to transcribe certain syllables of the original Buddhist term? Such questions are of extreme importance to the reconstruction of the historical development of Chinese phonology during the late Hà period.

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COMPETING INTERESTS

The authors have no competing interests to declare.

AUTHOR CONTRIBUTIONS

Julien Baley: Data curation, Formal Analysis Investigation, Methodology, Validation, Visualization, Writing – original draft, Writing – review & editing. Nathan Hill: Conceptualization, Funding acquisition, Methodology, Project administration, Supervision, Writing – review & editing. Ernest Caldwell: Funding acquisition, Project administration, Supervision, Writing – review & editing.

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¹⁴ Note also here the use of *daī 陀 for Indic *da/ta*, suggesting the loss of *-i* – cf. Middle Chinese */da/* – had already occurred in the dialect Lokakṣema translated into. Cf. Baxter (1992: 293–294).

¹⁵ Gandhari <kṣ>=[tṣ], (Baums, 2019: 7)

¹⁶ Again, the actual source language of the transcriptions might have been yet another language, and the examples are provided for illustration only; further investigation is required.

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