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### A Forgotten Chapter in South Asian Book History? A Bird's Eye View of Sanskrit Print Culture

Camillo A. Formigatti

idam mañjuśrīs tathāgatasya nāmāṣṭottaraśatakam ye kecil likhiṣyanti likhāpayiṣyanti pustakagatam api kṛtvā gṛhe dhārayiṣyanti vācayiṣyanti | te parikṣīṇāyuṣaḥ punar eva varṣaśatāyuṣo bhaviṣyanti | itaś cyutvā aparimitāyuṣas tathāgatasya buddhakṣetre upapadyante | aparimitāyuṣaś ca bhaviṣyanti aparimitāguṇasañcayāyām lokadhātau |

Mañjuśrī, those who will copy this collection of one-hundred and eight names of the Tathāgata, will commission it to be copied, and after having committed it to a book, will keep it at home, will recite it, once their life is exhausted, they will become again endowed with a life-span of a hundred years. Once they have left this world, they enter the Pure Land of the Buddha of the Infinite Life, and will have an infinite life in the Realm with the Infinite Multitude of Qualities.

Aparimitayurjñānanāmamahāyānasūtra (WALLESER 1916, 22)

• • •

pustakasthā tu yā vidyā parahaste ca yad dhanam | kāryakāle samutpanne na sā vidyā na tad dhanam ||

Knowledge stored in a book and money in the hand of others: When the time to act has come, there are neither knowledge nor money! *Cāṇakyaniti* 678 (STERNBACH 1967, 413)

•

When I was asked to talk about Sanskrit print culture in the workshop *Printing* as an Agent of Change in Tibet and Beyond, I enthusiastically accepted. Unfortunately, I didn't have the slightest idea of what I was getting myself

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into. I was just glad that somebody had finally accepted the challenge issued by Elizabeth Eisenstein in the first edition of her book *The Printing Press as an Agent of Change*:

As noted in my preface, the term 'print culture' is used to refer only to post-Gutenberg developments in the West. How printing affected pre-Gutenberg Asia must be left to others to investigate. (Eisenstein 1979, 9, fn. 18)

However, soon I realized that I might have made a big mistake by accepting such a challenge: virtually all studies on South Asian print culture focus on printing of vernacular texts. To my knowledge, there is no comprehensive study of the printing of Sanskrit texts, a fact reflected for instance in the recent volume *The History of the Book in South Asia* (Orsini 2013), a very interesting and useful collection of essays dealing with many aspects of South Asian book history, enriched by a thoughtful introduction. It is divided into four parts: 1. "Writing, Orality and the Manuscript Book," 2. "Technology and Practices" (i.e. print culture), 3. "The Cultures of the Book in Colonial India" and finally 4. "Post-Colonial Histories." Yet, even in this rich *vademecum*, the printing of Sanskrit works is not dealt with in any essay: all contributions included in Part 11 focus on the print of vernacular texts (Hindi, Urdu, Tamil etc.).

### 1 Introduction, or Arbitrary Definitions of Sanskrit Printed Works

Even though I share Carlo Cipolla's opinion that "the surest way to fail as an author is to start by sounding pedantic, and the surest way to sound pedantic is to start with an unexhilarating search for definitions" (Cipolla 1969, 11), I am afraid I will have to start my article with a definition. I beg the readers' forgiveness. Many contributions in this volume deal with geographically defined

I would like to express my gratitude to all colleagues and friends who helped me in many ways while I was writing this article. First and foremost, I thank the editors of the volume for their patience, and above all Dr Hildegard Diemberger (Cambridge), who contributed also with suggestions about the role of print in Tibet and Nepal. Many thanks go also to Dr Michela Clemente (Cambridge), who read parts of the draft and discussed with me some of the ideas presented. A first draft of the article was presented at the Centre for the Study of Manuscript Cultures of the University of Hamburg, where I profited very much from the lively discussion that followed – above all, I would like to thank Dr Martin Delhey (Hamburg), whose remarks helped me honing the definition of Sanskrit print. I owe thanks also to Prof. Dr Stefano Zacchetti (Oxford), who pointed to my attention the article by J.-P. Drège about the Dunhuang prints. Dr Lore Sander kindly helped me by providing bibliographical information about studies of the Turfan Sanskrit blockprints.

printing traditions (like Mongolian, Chinese, and Tibetan printing traditions, or the intersection between all these traditions). However, providing a clear-cut definition of Sanskrit print culture is not an easy task. The material to be examined is defined according to a linguistic criterion, a fact bearing important consequences on the research approach. First of all, in order to delimit the field, we have to answer the apparently simple question: what are Sanskrit printed works? With the spread of Buddhism from the Indian subcontinent, Sanskritic culture as well moved northwards, crossing the Himalayan range to reach Central and East Asia. Scholars usually consider the numerous fragments of Sanskrit manuscripts found in the city-states and Buddhist monasteries in Central Asia along the Silk Road as belonging to South Asian manuscript culture. D. Wujastyk's remarks about the difficulty of finding a restrictive definition of Indian manuscripts can be applied, *mutatis mutandis*, also to Sanskrit prints:

What, then, really defines an "Indian manuscript?" For most specialists, this expression conjures up the idea of a handwritten document inscribed on paper or palm leaf, in Devanāgarī or one of the other alphabets of South or Central Asia, and typically in the Sanskrit, Tamil or Persian language. But one has to bear in mind that the boundaries of definition are fluid, and that a manuscript from China, written on birch bark in the Kharoṣṭhī script of Gandhāra and the Middle-Iranian language called Khotanese, may also be considered, in many respects, an Indian manuscript, for example if it contains a translation of a Sanskrit treatise on Buddhism or Āyurveda, or if it was produced in a Buddhist monastery that still had living links with India. (Wujastyk 2014, 159)

In other words, should we consider Sanskrit works printed in Central Asia as part of the history of Sanskrit printing? For the moment, let us answer this question in the positive and include in our survey all Sanskrit works printed in the Asian continent. Immediately, another question arises: what if the first attestation of the printing of Sanskrit works occurred outside the Asian continent? Should an evaluation of Sanskrit works printed and distributed, for instance, only in Europe, be included in this article? Moreover, since we are now applying a purely linguistic criterion, we might ask ourselves if we should take into consideration all printed works that contain some form of Sanskrit text.<sup>2</sup> Some practical examples might help clarify this last point.

<sup>2</sup> Even if the distinction between text and work applied in this article is rather intuitive, I hope it will prove helpful for the reader. It is based on C. Segre's definition of text: "The text is the

The *Bodhisattvāvadānakalpalatā* (Av-klp) is a work composed in the style of  $k\bar{a}vya$  by the Kashmiri poet Kṣemendra in the 11th century. Between 1260 and 1280 it was translated into Tibetan by the lo tsā ba Shong ston Rdo rje rgyal mtshan and the Paṇḍit Lakṣmīkara on behalf of Qubilai Khan's advisor's 'Phags pa Blo gros rgyal mtshan. Thanks to this translation it enjoyed great popularity in Tibet, becoming a milestone of literary style as well as a source of inspiration for visual artists. In fact, this popularity is the reason why this work survived, for it is transmitted in its entirety only in a Tibetan bilingual edition containing the original Sanskrit together with the Tibetan translation, revised and printed in 1664–65 under the aegis of the Fifth Dalai Lama (on this edition are based also the canonical bilingual editions printed in the Derge and Cone Tanjur).³ Should we include in our survey these prints as well? Moreover, if we were to push the argument further, we might even ask ourselves if it is worth including Chinese and Japanese Buddhist prints containing Sanskrit  $dh\bar{a}ran\bar{\mu}s$  embedded in the main text, or even Japanese facsimile editions of Sanskrit texts.

At this stage, let us apply a purely linguistic criterion, and define Sanskrit prints as follows: either as (1) any print containing any kind of Sanskrit text, regardless of the completeness or length of the text, or (2) any print containing a complete Sanskrit work, regardless of other features (such as the presence of a translation in another language). It is immediately clear that the first definition is too broad, allowing us to include in the present analysis for instance the Japanese *Hyakumantō darani* prints, commissioned by the Empress Shotoku between 764–770 – after all, even if this version of the *dhāraṇī* is written in Chinese characters, 'the texts consist almost entirely of sounds transcribed phonetically from the original Sanskrit' (Gardner 1993, 196). These kind of texts are beyond the scope of this article. The second definition is more restrictive, and would allow us to include in our survey the bilingual editions of Kṣemendra's *Bodhisattvāvadānakalpalatā*. However, this printed work arguably belongs to Tibetan print culture, and it is of little help (if at all) in the reconstruction of the history of Sanskrit print culture.

linguistic texture of a discourse. In the meaning most prominent until the present century [Segre writes in the 20th century], it is a written discourse (whose oral utterance cannot be defined as text anymore). When we speak of the *text of a work*, we point to the linguistic texture of which the work is formed; on the other hand, if we are referring to the content, work and text are almost identical" (emphasis mine; the original Italian is as follows: "Il testo è dunque il tessuto linguistico di un discorso. Nell'accezione prevalsa fino a questo secolo, si tratta di discorso scritto (la cui realizzazione vocale non è più denominabile come testo). Quando si parla del testo di un'opera, si indica il tessuto linguistico del discorso che la costituisce; se viceversa si allude al contenuto, opera e testo sono pressoché identici." Segre [2014, p. 298]).

<sup>3</sup> On the 1664-65 edition, cf. Mejor 1992, 52-64; on the Tibetan transmission of the Av-klp, cf. also Straube 2006, 70-72 and 90-92; and Straube 2009, 18-22.

The Sanskrit text is written in a Tibetan *dbu can* script adapted to represent the Sanskrit language. This printed edition was conceived and produced within the Tibetan cultural sphere, where it also circulated, and thus had little impact on South Asian cultural history. This remark is proved by the fact that the first part of the Sanskrit original of the *Bodhisattvāvadānakalpalatā* was lost in South Asia, and all Nepalese manuscripts that have come down to us contain only *avadānas* from the second half of the work.<sup>4</sup> Remarkably, the first part of the work was considered to be lost in Nepal, even if the complete work was still extant in the neighboring country of Tibet.

This last consideration introduces a geographical and cultural criterion that apparently allows us to narrow the scope of our survey. We might define Sanskrit prints as (3) any print containing a complete Sanskrit work, regardless of other features (such as the presence of a translation in another language), and printed in South Asia. At first sight, this last definition might appear fitting. On the other hand, if we were to apply it blindly, we would be forced to exclude any Sanskrit work printed outside South Asia, thus obliterating aspects and phenomena important for the scope of the present volume, i.e. an assessment of print culture in Asia. Moreover, it would exclude also short, fragmentary or incomplete texts, such as *dhāraṇī*s extracted from longer works. It is perhaps advisable to revise it, as we want to consider as many aspects as possible before pinning down a definition. Surely another aspect that should be added to the discussion is the printing technique. In an article on the history of lithography in India, G. Shaw describes its introduction in the South Asian continent, mentioning reports that circulated in India in the late 1820s about a "form of lithography" that had originated in Asia:

A Dr J. G. Gerard of Sabathu, at a military post near Simla, mentioned meeting the famous Hungarian orientalist, Csomo [sic] de Körös, at the monastery of Kanam in Kunawar, whose 'learned companion, the Lama, has informed him that lithographic printing has flourished for ages in the ancient cities of Teshoo Loompoo and Lahassa', and the report of the proceedings of the Asiatic Society of Bengal for July 1829 recorded the presentation by the same Dr Gerard of 'a specimen of the stone used for lithographic printing in Thibet, and of the printing', a footnote adding that 'it seemed to be a fine-grained chlorito-argillaceous schist'. This is clearly a reference to the practice (originating in China but spreading early to other Buddhist cultures) of taking inked rubbings on paper from

On the textual transmission of the Sanskrit text of the Av-klp, see Straube 2006, 60–87; and Straube 2009, 3–17.

stone inscriptions, the forerunner of taking impressions from wood, a process which the Sinologist Thomas F. Carter himself referred to in the 1920's as 'lithography' or 'lithograph rubbing'. (Shaw 1998, 91)

Despite Carter's definition of the inked rubbings on paper from stone inscriptions as 'lithography,' lithographic printing as it is commonly understood is based on a different technique, developed in Europe at the very end of the 18th century. Still, this passage is a good starting point for yet another question to be asked: which typology of printing technique is to be included in our definition? Reproduction techniques akin to printing were known in South Asia already from a very early age, such as impressing on clay tablets short texts like dhāraṇīs by means of sealings (the first specimens of this type of impressions are possibly dated to the first century BCE). Such texts were mechanically reproduced in a high number of identical items (one of the defining characteristics of printed texts), but were not meant to be read, their reproduction had, rather, a cultural and ritual purpose.<sup>5</sup> Even though they can be considered to be the very first attestation of printing in South Asia, surprisingly little attention has been paid to them, perhaps because their primary function was magical and protective, and they were considered to be devoid of the transformative power attributed to texts printed in order to be read.6

It is possible to further narrow down the definition by combining the four criteria considered above (linguistic, geographical/cultural, grammatological<sup>7</sup> and technological), and propose the following stricter definition: a Sanskrit print is (4) any object (complete or fragmentary) containing a Sanskrit text, printed in Asia in a South Asian script,<sup>8</sup> with the purpose of being distributed

<sup>5</sup> For a brief survey on this topic, see Kornicki 2012, 51ff.; on the *dhāraṇī*s impressed on clay tablets, see Lawson 1982.

<sup>6 &</sup>quot;After all, these clay tablets with impressions of a seal or stamp are evidence of the use of mechanical means for the mass production of texts which were not manufactured for the purpose of reading; once they had been produced and ritually used their fate was of little concern" (Kornicki 2012, 52).

<sup>7</sup> I.e. relating to the writing system. As pointed out by P. T. Daniels, the study of writing systems per se, as an object of a defined academic field of study, is relatively recent: "[W]riting systems per se, the marks that record the languages of the documents produced by the civilizations, have absorbed the attention of only a very few linguists. No name for this field of study has even become widely accepted; "grammatology," proposed in the mid twentieth century, is better than most" (Daniels and Bright 1996, 1).

<sup>8</sup> Again, this characteristic might be too broad, for it is possible to include under the label "South Asian" also the Tibetan script (in almost all its varieties), since it is derived from a

either for reading or for ritual activities, regardless of other features (such as the presence of a translation or paratexts in other languages).

All four definitions of Sanskrit print proposed above are valid, but on account of the nature of the present volume, I will take the fourth definition as a starting point. The three main printing techniques that in the past were employed for printing Sanskrit texts in Asia are xylography, lithography and letterpress printing. In the following three sections, I will try and provide some general remarks, based on a few examples of texts printed with these three techniques. The last section will be devoted to preliminary conclusions about the history of South Asian print culture.

### 2 Sanskrit Xylographs

This survey does not aim at being exhaustive; it is rather a starting point and a means for a first appraisal of the general features of Sanskrit xylographs. Two main sites in Central Asia will be taken into consideration: Dunhuang and Turfan. The Sanskrit prints found in the first site have a more uniform character, and have already been the object of preliminary studies. On the other hand, the Turfan findings display more variety both in terms of content and codicological features, yet to my knowledge no specific study has been devoted to them. For this reason, I will focus more on the xylographs from Turfan.

### 2.1 Dunhuang

Among the numerous Sanskrit fragments of manuscripts found in the Dunhuang caves, a small number of bilingual Sanskrit woodblock prints have come to light. They all contain various <code>dhāraṇīs</code> (such as the <code>Sarvatathāgatoṣṇīṣa-sitātapatradharaṇī</code>, or the <code>Mahāpratisāradhāraṇī</code>), often together with other Chinese texts or at least with Chinese paratexts (such as the donor's colophon) printed on the margins. They are all printed on paper, and the script used to write the Sanskrit text is a kind of <code>siddhamātṛkā</code>. The Sanskrit text is usually written around a central figure representing a deity or a Bodhisattva, and each print displays a very complicated decorative layout, for instance in the form of a <code>maṇḍala</code> starting from the centre, with the text written as a round spiral around the central figure. Occasionally the text is continued on the four margins, forming an external frame around the internal spiral.

North Indian script. However, taking into considerations the other three criteria, it should still be possible to reasonably narrow down the domain of Sanskrit print.

<sup>9</sup> Four of these prints are described in WU 1984, 68-72, and in Drège 1999.

Scholars devoted particular attention to a print of the *Mahāpratisāradhāraṇī* discovered in Szechwan in 1994, in a tomb in Chengdu "dated from the latter part of the Tang period" (Twitchett 1983, 18). The *dhāraṇī* is written in Sanskrit, but on the right margin a colophon in Chinese provides information about the printer, a certain "Pien in the Lung-chih ward of Ch'eng-tu city. From the names used for administrative units it must date from some time after 757" (*ibidem*). Such an early date would mean that this print is either older or at least contemporary with the oldest known prints, such as the the *Hyakumantō darani* (764–770 CE), or the printed *dhāraṇī* discovered inside the Sokkat'ap stone pagoda of the Pulguksa temple in Kyongju in South Korea and traditionally dated before 751 CE. <sup>10</sup> However, based on a comparison of dated similar material recovered in Dunhuang, Jean-Pierre Drège has proposed the 10th century as a more probable date for this print (and similar ones) (Drège 1999, 34–35).

These dhāraṇīs were printed in multiple exemplars, like the Mahāpratisāradhāraṇī, of which three exemplars are known, one in the Bibliothèque nationale de France (Pelliot sanscrit 2), one in the Musée Guimet (EO. 3639), and one in the British Museum (Stein painting 249, figure 6.1). Moreover, it is not clear if such dhāraṇīs were all printed in Dunhuang, probably some of them circulated: for instance, a xylograph of a Sanskrit dhāraṇī kept in the Musée Guimet, MG. 17688, is strikingly different in style from other 10th Sanskrit xylographs from Dunhuang, and may have been printed elsewhere (Drège 1999, 28-29). From the viewpoint of the codicological features as well as of the content, the ritual and protective purpose of such prints is clear. In a bilingual xylograph from the Pelliot collection in the musée Guimet (MG. 17689), the Chinese text states that the person who prints, copies and carries the dhāraṇī will be freed from all bad and gross negligence acts, will be helped by all Tathāgatas, will be protected by all Bodhisattvas and Nāga kings, will avoid all calamities and brutalities, will escape the evil destinies, and will not be hurt by water, fire, thunder, lightning, poison or evil (Drège 1999, 29-30).

### 2.2 Turfan

Numerous fragments of Sanskrit blockprints have been recovered during the German expeditions in the Turfan oasis. They have been described and edited in several volumes of the Sanskrithandschriften aus den Turfanfunden (SHT), published in the series Verzeichnis der Orientalischen Handschriften in Deutschland (VOHD). Unfortunately, a list of the xylographs recovered is provided only in the first volume, and the indexes to all other SHT volumes do

The date of this  $dh\bar{a}ran\bar{\iota}$  is still disputed, for a discussion of the various hypotheses see Kornicki 2012, 47–50.

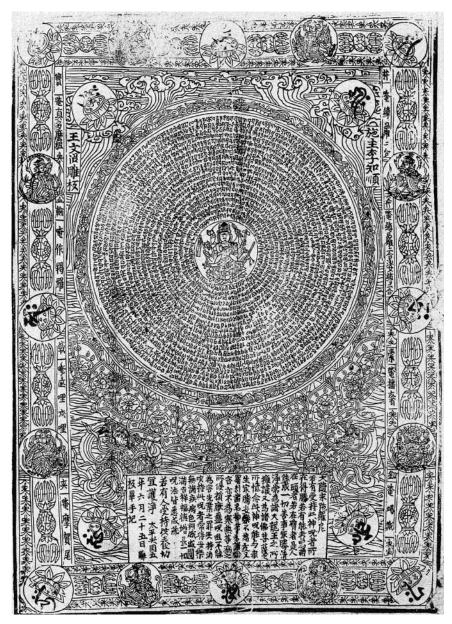


FIGURE 6.1 British Library, Stein painting 249. Ritual print with eight-armed figure surrounded by a dhāraṇī in Sanskrit, with the text of the Da sui qiu tuoluoni in Chinese.

Northern Song dynasty, dated 5th year of Taipingxingguo (AD 980). Xylograph, ink on paper with Sanskrit letters overprinted on the lotus medallions. Printed area:

H. 41.7 cm, W. 30.3 cm.

not help at all in the search for xylographs (they are organized according to topics and genre). In order to find them, I tried to use also the database of the *International Dunhuang Project* website, but its search functions are not very user friendly. Moreover, the 2011 electronic edition of the VOHD volumes is still labelled as work in progress – it is probably for this reason that in the entries of the IDP online version of the catalogues, all xylographs are wrongly described as "manuscript, ink on paper." The following survey has thus been prepared by looking for xylographs in all entries in the eleven SHT volumes published until now. A list of the xylographs described in the SHT volumes is provided in Appendix A.

The very first observation is how scarcely represented Sanskrit xylographs are in the vast amount of book findings in the Central Asian city states. If we take into account the fragments of Sanskrit manuscripts so far catalogued in the VOHD, and adjust this number by taking into consideration the possibility that some fragments described separately might actually belong to one single item, the proportion is staggering. In the eleven volumes I perused, a total of 5799 fragments are described, of which only nineteen are blockprints (much less than one per cent). One could be tempted to immediately draw the conclusion that although blockprinting technology was already known in Central Asia during the flourishing period of the city-states, it was scarcely used for Sanskrit texts. However, given the character of the material and the serendipity of the findings, I believe that any conclusion about the diffusion and impact of this printing technique for Sanskrit texts in Central Asia is highly hypothetical. Nonetheless, I also believe that it is worth trying to provide at least a preliminary assessment of the material. Needless to say, it has to be taken cum grano salis.

The xylographs are grouped according to three criteria: (1) location at which they were found, (2) script and (3) format and content. The reason why the last two aspects are subsumed under one criterion is that the relationship between format and content might yield useful information about the usage and function of the books.<sup>11</sup>

# 2.2.1 Distribution According to Location at which the Xylographs were Found

Qočo: 11 items (SHT 575, SHT 612, SHT 613, SHT 614a and SHT 614b, SHT 627, SHT 645, SHT 646, SHT 1173, SHT 1191, SHT 1385).

Sängim: 2 items (SHT 1105, SHT 4352).

<sup>11</sup> When fragment SHT 612 is mentioned in any of the following lists, it always includes SHT 1174 and SHT 5029; fragment SHT 1430 always includes SHT 4008, SHT 4015, SHT 4264, SHT 4524b, SHT 4591 and SHT 647.

Murtuq: 4 items (SHT 580, SHT 1110, SHT 1190, SHT 4442). Unknown: 2 items (SHT 1430, SHT 4465v).

After more than forty years of research, the observation made by L. Sander in 1968 that most of the xylographs were found in Qočo is still valid (Sander 1968, 17 fn 57). Out of a total of nineteen fragments, eleven have been found in the temple city of Qočo. Strikingly, all other fragments have been found in two localities not far Qočo, Sängim and Murtuq. Unfortunately, the list of finding locations compiled during the German Turfan expeditions was lost during World War II, together with Theodor Bartus' diary, and assessing the provenance of the fragments with certainty is not always possible (Sander 1968, 7-8). Four sources for this task are listed by the German scholar: published reports of the expeditions, letters and documents in the archives about Turfan, seals on the fragments, and the extant lists of the findings (Sander 1968, 8). It is even more difficult to establish the exact place where each fragment was found within each complex of ruins. It is mainly thanks to the reports of the expeditions by Grünwedel and Le Coq that in some cases we have general gleanings on the precise locations of the findings. Fragments of manuscripts and xylographs were found in three types of locations: ruins of libraries, ruins of votive statues, and monks' cells. Still, more often than not it is impossible to assess with certainty whether a given fragment was recovered in a *stūpa*, in a votive statue or in a library. The following exemplary remark refers to the first expedition in Qočo, where the majority of the blockprints where recovered:

Über die Ergebnisse der ersten Expedition hat Grünwedel ausführlich berichtet. Er schildert auch eingehend die Handschriftenfunde, die er in den verschiedenen Ruinen gemacht hat, doch erwähnt er nicht, ob sie aus Bibliotheken oder Kultfiguren stammen könnten. Wahrscheinlich war diese Frage auch schwer zu beantworten, weil die Stadt gewaltsam zerstört worden ist und – wie alle anderen Fundstätten auch – laufend Plünderungen zum Opfer fiel. [...] Die anderen von der ersten Expedition aus Qočo mitgebrachten Bruchstücke von Sanskrithandschriften oder Blockdrucken sind wahrscheinlich käuflich erworben. Grünwedel konnte jedoch einen Teil der Fundorte von den Verkäufern ermitteln und sich durch Überprüfung der Angaben von ihrer Richtigkeit überzeugen. (Sander 1968, 16–17)

With regard to the other two cities, Sängim and Murtuq, we are left with the same degree of uncertainty. For instance, we can only speculate whether the two fragments found in Sängim, SHT 1105 (parts of a *Deśanā*) and SHT 4352

(Sarvatathāgatoṣṇīṣasitātapatradhāraṇī), come from a library or from another building. The last one for instance might have been found in the *stūpas* described by Le Coq.<sup>12</sup> It is therefore an almost impossible task to put forward any tenable hypothesis as to the function of these xylographs based on their place of recovery.

### 2.2.2 Distribution According to Script

- 1. Nordturkistanische Brāhmī, Typ b: SHT 575, SHT 580, SHT 612, SHT 613, SHT 614a, SHT 614b, SHT 627, SHT 1105, SHT 1110, SHT 1173, SHT 1190, SHT 1385\*, SHT 1430, SHT 4442.
- 2. Südturkistanische Brāhmī (Alphabet v): SHT 4352.
- 3. Pāla: sнт 645, sнт 646.

Three different scripts were used for printing Sanskrit texts in the Turfan area. The first one is the "nordturkistanische Brāhmī," and as its name betrays, it was widely employed for the production of manuscripts in the regions on the northern route of the Silk road. According to L. Sander, on the basis of the ductus it is possible to further differentiate it into two types: "Typ a" was more widespread in the Kučā-Region, while "Typ b" was more so in the Turfan oasis (Sander 1968, 5). Since the xylographs were recovered in the Turfan region, it is no wonder that the script used in the great majority of the xylographs corresponds to the one used in manuscripts from the same area. The only exceptions are three fragments, SHT 645, SHT 646, and SHT 4352. The latter is written in the südturkistanische Brāhmī (Alphabet v) used in the Khotan region (Sander 1968, 183), and contains part of the Sarvatathāgatoṣṇīṣasitātapatradhāraṇī, a text very popular and widespread in Central Asia. Given the character of this text, considered to be used in protective amulets, it may well be that this book had been produced elsewhere, and only later carried by a traveller to the place where it was found, Sängim.

<sup>&</sup>quot;Trotz des abschreckenden Eindrucks dieser Landschaft ist die Schlucht auf ihrem linken oder westlichen Ufer mit einer Reihe von Tempeln besetzt, während die Höhen des rechten Ufers mit zahlreichen indischen Grabmonumenten (stūpa) besetzt sind, deren einige auch unmittelbar am rechten Ufer des Stromes sich erheben. Diese Stūpas enthielten Reste von Leichenbrand, künstliche Blumen, Votivgaben (Heiligenbilder auf Papier) und zahlreiche Manuskriptreste. Es muß auffallen, daß in einem dieser Denkmäler, in der Biegung des Stromes, ein nur wenig beschädigtes manichäisches Buchblatt, unter Bruchstücken zahlreicher buddhistischer indischer Handschriften, gefunden wurde. [...] Hier und da wurden auch Funde manichäischer und indischer Handschriften gemacht" (Le Coq 1926, 69–71).

On the other hand, SHT 645 (figures 6.4 and 6.5) and SHT 646 (figures 6.7) and 6.8) contain respectively parts of the Śatasāhasrikā Prajñāpāramitā and an unidentified dhāraṇī, and are written in a completely different type of script. L. Sander compares it to the so-called Tibetan sha-chen ("corpulent characters"), which is very similar to the Pāla script employed in Bengal during the Pāla dynasty, both in manuscripts as well as in inscriptions (Sander 1968). However, in the secondary literature the terminology for this type of script varies greatly, very often leading to a confusion with other very similar ornamental scripts probably derived from it. Cecil Bendall (and others after him) defined it as *Kuţila* (Bendall 1883, xxiv), but numerous other definitions have been applied, such as Nāgarī, Siddhamātṛkā, Proto-bengali, Nevārī, and Rañjanā (Weissenborn 2012, 19).13 I prefer to adopt the term "Pāla" used by Sander, since it clearly indicates the geographical and cultural origin of this script. In her exhaustive palaeographical analysis of these two fragments, the German scholar already noticed that, on account of Buddhist missionary activity, the Pāla script rapidly spread to neighbouring countries such as Nepal and Tibet, spawning a series of similar, yet distinct scripts, including the sha-chen, (Sander 1968, 173-76). The use of the Pāla script or one of its derivatives was very often a sign of the particular prestige and/or ritual value attributed to a manuscript, and apparently was linked to specific texts: single dhāranīs and collections thereof like the *Pañcaraksā*, *Prajñāparamitā*-texts (very often the Aṣṭasahāsrikā), the Suvarṇaprabhāsottamasūtra.14 The sacred and ornamental value of these scripts is testified to also by the fact that they were - and still are nowadays – used for writing Sanskrit titles on title pages of Tibetan manuscripts and prints, as well as for prayer-wheels and for inscriptions on sacred buildings.<sup>15</sup> The script could give us also a clue as to the place of production of the xylographs: in the light of the fact that the Tibetan sha-chen is a modification of the Pāla script, L. Sander suggests that SHT 645 and SHT

The confusion goes even further, for instance the *Rañjanā* and the Tibetan *Lan-tsha* are sometimes considered to be one and the same script – see for instance Tibetan and Mongolian abecedaria of Indian scripts, like the *dByangs gsal bzhugs* (Skt. *Ālikālibijahāram*), composed by mGon po skyabs in the first half of the 18th century, but based on an older work written in 1586 AD (Chandra 1982, 3–5 and 9–14; on mGon po skyabs, see Wang-Toutain 2005).

<sup>14</sup> Even a cursory analysis of catalogues of Buddhist manuscripts would confirm this remark.

See for instance the account provided by S. C. Das in 1888: "In the grand sanctuary of Sam-yea, Lan-tsha characters were written and painted and engraved on prayer cylinders, walls, tapestries, doors and chapels. On chaityas and votive piles there were numerous inscriptions written in the Lan-tsha character, which exist up to the present time round the central sanctuary of Sam-yea" (Das 1888, 44).

646 were either produced in Tibet or carved in Qočo on the basis of Bengalese manuscripts (Sander 1968, 175–76). However, woodblock printing technology was already in use in China by the mid-seventh century, while the earliest extant xylograph from central Tibet is copy of Haribhadra's commentary on the *Abhisamayālaṃkāra*, produced in 1407 to commemorate the death of the ruler of Southern La stod Situ Chos kyi rin chen (died 1402).

### 2.2.3 Distribution According to Format and Content

- 1. Pothī: SHT 612 (Samyuktāgama), SHT 613 (Samyuktāgama), SHT 645 (Śatasāhasrikā Prajñāpāramitā), SHT 1110 (unidentified Mahāyana text), SHT 1385\* (Śatasāhasrikā Prajñāpāramitā?), SHT 1430 (Vinayavastu, Saṃghabhedavastu), SHT 4442 (unidentified text).
- 2. Accordion book: SHT 575 (*Deśanā*), SHT 580 (*Catuṣpariṣatsūtra*), SHT 627 (*Stotras*), SHT 1173 (end of a colophon and *ye dharmā* formula), SHT 1190 (*Sitātapatrahṛdayamantra*), SHT 4352 (*Sarvatathāgatoṣṇīṣasitātapatra-dhāraṇī*).
- 3. Scroll: SHT 1105 (Chinese characters on the recto, and on the verso a metrical  $De\acute{s}an\bar{a}$ ).
- 4. Unknown format (codex?): SHT 614a (*Smṛtyupasthāna*), SHT 614b (*Smṛtyupasthāna*), SHT 646(*Dhāraṇī*), SHT1191(*Sarvatathāgatoṣṇīṣavijayanāmadhāraṇī*), SHT 4465 v).

The range of book formats and the content of the fragments enable us to draw more plausible hypotheses about the function of these xylographs. From the viewpoint of the content, an interesting feature is that the findings include only few specific typologies of texts: (1) different sections of Sanskrit Buddhist canons (two fragments from the Samyuktāgama, two belonging to the Vinayavastu); (2) the Prajñāpāramitā literature (represented here in his version in 100,000 stanzas); (3) ritual and performative texts (two fragments of a Deśanā, two fragments of the Smṛtyupasthāna, one fragment of the Catusparișatsūtra, and one fragment containing several stotras); (4) magical and protective spells (at least four fragments of various dhāraṇīs). It is not by chance that specific formats correspond to specific typologies of texts. The pothī format of South Asian origin is used to print canonical texts and the Prajñāpāramitā, probably in an attempt to give a more prestigious status to the printed books by appealing to the South Asian traditional format. In the case of the two long fragments of the Prajñāpāramitā, the South Asian cultural influence is seen not only in the format, but also in the use of the Pala script, as explained above.

On the other hand, the accordion books contain almost exclusively ritual and magical texts (including SHT 627, a fragment containing various *stotras*; on the daily recitation of this type of texts, cf. Schlingloff 1955, 8ff.). Unlike in the case of the  $poth\bar{\iota}$ , this format is easier to handle during the recitation, for it enables the reader to hold the book and flip the pages even with one hand, without the aid of any surface to put the book on.

The other represented formats are the scroll and probably the codex. The scroll format is typically Chinese, and in fact sht 1105 is a fragment containing Chinese characters on the recto (in this particular case, a Chinese book was repurposed). The presence of the codex format is uncertain due to the state of conservation of the fragments. However, sht 614a is better preserved, and its dimensions are 15cm  $\times$  15cm, pointing to a different format than the *pothī*. Sht 646 is in an even better state (figures 6.7 and 6.8), and its dimension (10.7cm  $\times$  6.5cm) points more decidedly towards the codex.

### 2.2.4 First Appraisal of Sanskrit Xylographs from Turfan

As we have seen, it is almost impossible to pinpoint the exact position of the fragments and to place them in a definite stratigraphy in the sites where they were recovered. For this reason, the identification of the type of script is very important as a means to date the fragments. Again, according to the palaeographical study of L. Sander, the lower limit is the 7th century CE, and the upper limit might be the 14th century CE (Sander 1968, 46–47). This rather large range of seven centuries can be narrowed down further by considering other features. As with most of the fragments, SHT 612 was found in Qočo and contains running titles in Uighur on the margins. This evidence might allow us to set lower and upper limits for the production of this xylograph that most probably coincide with the period of Uighur occupation of this city (850-1250). An upper limit of around the 13th-14th century is confirmed also by SHT 645. The Pāla script of this xylograph is dated by Sander to the 14th century on account of palaeographical features and general considerations about the transmission of this script from Bengal to Tibet and Central Asia (Sander 1968, 176–77). However, manuscripts in this script were produced in Nepal already in the 12th century, <sup>16</sup> and it is not an impossible scenario that manuscripts written in this script had reached the cities on the Silk Road already by the 13th century. 17 This

<sup>16</sup> For instance, Add.1693 in the Cambridge University Library, a manuscript of the *Aṣṭasahāsrikā Prajñāparamitā*, completed on Sunday, July 18th, 1165 CE in the Dharmacakra-vihāra in Kathmandu.

<sup>17</sup> A confirmation of this hypothesis might be found in the running marginal titles in Chinese characters, to be dated after the 10th century (Imre Galambos, personal communication).

hypothesis coincides with the evidence at our disposal about the introduction of blockprinting in the Uighur kingdom of Qočo in the 13th–14th century. According to Annemarie von Gabain, four types of format where used for the production of manuscripts and xylographs in the Turfan area: codex, *pothī*, scroll, and accordion book. The accordion book format was a late introduction of the Uighurs, an aspect that might confirm the dating of the Sanskrit blockprints in this format to the last period of the Uighur occupation of the Turfan area (Gabain 1964, 173–76; 1967, 18–19).

Even though the range of items taken into consideration is very limited, a combination of the three criteria employed to group the xylographs, together with an analysis of their codicological features allows us to draw at least hypotheses about the production, use and diffusion of Sanskrit prints in the Turfan area. As noted above, the script employed in the great majority of them is the "nordturkistanische Brāhmī, Typ b" found in manuscripts from Turfan, a strong argument towards the hypothesis of the presence of local printeries. Following this line of reasoning, we can narrow the spectrum of possibilities and try to tentatively locate the printeries. Only two fragments were recovered in Sängim, SHT 1105 and SHT 4352. The first one is part of a scroll with five lines of Chinese on the recto, and a metrical Deśanā on the verso. The scroll format and the Chinese characters are features pointing to the Chinese origin of this fragment, which has probably been re-used to print the Sanskrit text on the verso. SHT 4352 is written in "südturkistanische Brāhmī (Alphabet v)," a script mostly used in the Khotan region, and given the character of the text it contains (a protective spell), it might have been an amulet carried by a person coming from the southern route of the Silk Road. Among the four fragments found in Murtuq (SHT 580, SHT 1110, SHT 1190, SHT 4442), SHT 580 is part of an accordion book containing the Catuṣpariṣatsūtra. SHT 1110 consists of small fragments from the middle of a folio of an unidentified Mahāyana text; the format has been tentatively identified as *pothī*, but it might have been an accordion book as well. SHT 1190 is one folio of an accordion book containing the end of the Sitātapatrahṛdayamantra with the title used as final rubric (and, as to be expected, parts of the ye dharmā formula). Finally, SHT 4442 consists of various fragments of a *pothī* containing a yet unidentified text. The accordion books were probably used for ritual purposes, but unfortunately we cannot make any hypothesis about the function of the pothi, since the text is unidentified. Nonetheless, we could assume that according to the type of texts and formats of the xylographs found in Murtuq, these prints might have been brought there for use, rather than produced in situ. On the other hand, eleven

<sup>18</sup> See Gabain 1967, passim, and Elverskog 1997, 11.

fragments – more than half of the total findings – were recovered in the temple-city of Qočo. Among these fragments all type of formats<sup>19</sup> and texts<sup>20</sup> are represented. Moreover, the only two fragments not written in a Brahmī were found in this city (SHT 645 and SHT 646). The variety of this material calls for a deeper analysis, in order to add some more solid bricks to the reconstruction of this picture.

First of all, almost all xylographs are printed on paper with black ink. The only notable exception is SHT 646, printed on paper with red ink. The layout of the *pothī* xylographs contains South Asian, Tibetan and Chinese elements. Particularly interesting are the bigger fragments, such as the ones transmitted in SHT 612 and SHT 645. Fragments of sixteen folios (157-173) of SHT 612 are extant, and one almost complete folio (173). This complete folio (figures 6.2 and 6.3) measures  $10.8 \times 28$ , and has five lines per folio on both sides. Like in many Central Asian manuscripts of Sanskrit texts, the ratio between the characters and the interlinear space is roughly 1:2, rendering the text very reader friendly. It has a single-lined writing frame surrounding the whole writing area, and a string hole space, 15.5cm from the left side, interrupting lines 2-4, decorated with a lotus. The running title in Chinese characters is written on the left margin of the recto, while on the left side of the verso the running title is given in Sanskrit and Uighur. The running marginal titles are separated from the text by means of a line thinner than the frame lines. Although the overall aspect of the folios resembles that of a manuscript – even the string-hole space is echoed by means of the decorative lotus – the writing frame and the marginal titles seem to be peculiar features of printed  $poth\bar{i}s$ , and are lacking in the accordion



FIGURE 6.2 SHT 612, folio 173 recto (for a complete description, see Appendix A).

<sup>19</sup> *Pothī*: SHT 612, SHT 613, SHT 645, SHT 1385; accordion book: SHT 575, SHT 627, SHT 1173; *codex*: SHT 614a, SHT 646.

Canonical: SHT 612, SHT 613; ritual/performative: SHT 575, SHT 614a, SHT 614b, SHT 627, SHT 645, SHT 1385; magical and protective spells: SHT 646, SHT 1191.



FIGURE 6.3 SHT 612, folio 173 verso (for a complete description, see Appendix A).

books.<sup>21</sup> Very similar considerations can be made for sht 645 (figures 6.4 and 6.5), seventeen folios of a xylograph of the  $\acute{S}atas\bar{a}hasrik\bar{a}$   $Praj\~n\bar{a}p\bar{a}ramit\=a$ .<sup>22</sup> The four complete folios measure 16 × 37, are printed on both sides and have 6 lines per folio. On the left margin of each recto and verso, an abbreviated running title (including chapter titles) in Pāla script is provided, while on the right margin of each recto and verso, part of the chapter number and foliation is provided in Chinese script.

Accordion books tend to have a simpler layout. The most complete example is SHT 575 (figure 6.6), which consists of a continuous sheet of paper divided into three folios by leaving a blank space corresponding to approximately four written lines, with single marginal frame lines. The absence of running marginal titles and foliation could be explained by the format and its usage. These books were *Gebrauchsobjekte*: the reader had one verso and recto before the eyes, and to read the following verso and recto he/she just needed a slight movement of the hand to turn two pages at time, the risk of turning to the

Compare this description with the description of Uighur *pothī*s in Gabain (1964, 174), and above all in Gabain (1967, 24): "Einige wenige Blätter haben eine Form, die den handschriftlichen Blättern im 'Hochformat' ähnlich ist [...] Sie haben eine Breite von etwa 59 cm, eine Höhe von 24,5 cm; der Schriftspiegel ist etwa 18,5 cm hoch und von einem Doppelrand eingerahmt, das Papier ist dünn; es gibt kein Schnurloch mehr, aber an dessen einstiger Stelle ist noch immer ein Kreis gezeichnet; er ist ohne Zirkel gezogen, denn es gibt kein Einstechloch. Er unterbricht die 8.—10. Zeile oder die 6.—8. Zeile. Die Paginierung befindet sich links, zwischen der Randlinie und der 1. Textzeile: zuoberst ist sie in uigurischen Buchstaben und darunter auf Chinesisch gegeben."

One fragment assigned to SHT 645 is without foliation, but with the running title  $[pa\tilde{n}]$   $c\bar{a}$  vi  $s\bar{a}$  in Brāhmī script, suggesting that the fragment belonged rather to a xylograph of the  $Pa\tilde{n}cavim\dot{s}atis\bar{a}hasrik\bar{a}$   $Praj\tilde{n}ap\bar{a}ramit\bar{a}$ .



FIGURE 6.4 SHT 645, folio 30 recto (for a complete description, see Appendix A).



FIGURE 6.5 SHT 645, folio 30 verso (for a complete description, see Appendix A).

wrong page was minimal. SHT 1190 consists of a single folio, and has double marginal frame lines (with a thicker external line).

sht 646 (figures 6.7 and 6.8) is the only item whose state of conservation allows one to conclude with a degree of certainty that it belonged to a codex. Since it is printed on both sides, it is unlikely that it belonged to a butterfly book (although this possibility cannot be ruled out). It consists of two fragmentary folios, and is a unique item also in other respects: it is the only xylograph printed in red ink, and like sht 645 is written in an ornamental script derived from the Pāla script. The left and right margins of both folios are damaged, but most probably the writing 6area was completely delimited by a double frame, with a thicker external line.

Among the whole body of written material recovered in Central Asia, printed books were found only in sites on the northern route of the Silk Road (the Turfan oasis, Khara-khoto and Dunhuang), and only in six languages (Chinese, Uighur, Mongolian, Sanskrit, Tibetan and Tangut) (Gabain 1967). Even if the xylographs recovered in Qočo represent only a very small part of the findings if compared to the manuscripts, they show what appears to be a very diversified production, covering a wide range of languages and typologies of texts and book formats. The Sanskrit printed material examined presents features very



FIGURE 6.6 SHT 575, recto (for a complete description, see Appendix A).



FIGURE 6.7 SHT 646, recto (for a complete description, see Appendix A).



FIGURE 6.8 SHT 646, verso (for a complete description, see Appendix A).

similar to the blockprints in other languages (above all the Uighur prints).<sup>23</sup> In the light of these considerations, we might be tempted to reconstruct a picture in which Qočo was the seat of a printery that supplied also the neighboring cities and temples with Sanskrit texts. The local origin of the Turfan prints has already been questioned by P. Zieme (2009b), and indeed a whole different picture emerges if we widen our perspective and take into consideration xylographs in other languages. Since the blockprints in Chinese, Tibetan and Sanskrit do not contain colophons mentioning the place of production, it is easy to assume that they were produced in the same place where they were found. On the other hand, a closer look at the colophons of Uighur prints in which the printing place is mentioned reveals that they were not printed in Qočo. After a perusal of Y. Kasai's Die uigurischen buddhistischen Kolophone, I was able to trace thirty-three colophons in Uighur extant blockprints,<sup>24</sup> but only seven colophons contain a reference about the printing place. Five xylographs were printed in Dadu, the capital of the Yuan emperors (near present-day Beijing):<sup>25</sup>

- (1) an Uighur version of the Chinese sūtra *Fo shuo guan wu liang shou fo jing* (no. 12), translated by Cinasiri (Skt. Jinaśrī) in the 14th century;
- (2) the *Sarvatathāgatoṣṇīṣasitātapatradhāraṇī*) (no. 45), printed in 1298 in ten thousand exemplars (according to Kasai, the whole printing project probably lasted one year);

<sup>23</sup> Cf. Gabain 1967; although slightly dated, this is a fundamental and very insightful contribution about Turfan printing culture.

The following list of Uighur blockprints is based on the examination of the 156 entries in Kasai 2008 (the first number is the one assigned by the author in her book, followed by the page number): 4 (p. 52), 8a-b (p. 60), 10 (p. 63, 11 (p. 64), 12 (p. 65), 15 (p. 71), 40 (p. 112), 41 (p. 115), 42 (p. 118), 43 (p. 121), 44 (p. 122), 45 (p. 123), 48 (p. 129), 50 (p. 132), 68 (p. 155), 109 (p. 207), 110 (p. 208), 111 (p. 209), 128 (p. 235), 129 (p. 239), 130 (p. 243), 141 (p. 260), 142 (p. 260), 143 (p. 261), 144 (p. 261), 145 (p. 262), 146 (p. 264), 147 (p. 264), 148 (p. 265), 149 (p. 265), 150 (p. 266), 154 (p. 272), 155 (p. 273). Unfortunately, the indexes to the volume are of no help in this case too, and the only way to determine which blockprints contain a colophon is to read all entries. Like in the case of the eleven sht volumes, one or more blockprints could eventually have escaped my attention. For this reason, I would like to appeal to the readers of this article and express one apparently minor request: if you are compiling a printed catalog, please consider the possibility of preparing also an electronic version, or at least think about the needs of the prospective readership, and provide accordingly a comprehensive index (or indexes).

<sup>25</sup> For a discussion of these prints, see also Zieme 2009b.

- (3) the *Mañjuśrīnāmasaṃgīti* (no. 48) in the Uighur translation by Karuṇadāsa, completed in 1302 in the "White Stūpa Tempel (Chin. Bai ta si), in Dadu, and most probably printed in the same year and place;
- (4) Avalokiteśvarasādhana (no. 110), in the Uighur translation by Punyasiri (Skt. Puṇyaśrī), printed in 1333 on behalf of the monks of the Pu qing si monastery;
- (5) a multi-text accordion book (no. 130), containing six different texts (Chinese *sūtras*, either in the original or in the Uighur version) printed on behalf of a certain Buyancog Bahsi, using the blockprints kept in the Hong fa si temple in the city of Zhongdu. The identification of this city with Dadu is controversial, and depending on it this xylograph was printed either in 1188 or (most probably) in 1308. The different hypotheses are discussed by Kasai, 243–44, who leans toward the identification with Dadu.

Another blockprint that probably was printed in Dadu contains the Uighur translation of the Avalokiteśvarasādhana by Punyasiri (Skt. Punyaśrī) (no. 111), printed in 1336 on behalf of a lay Buddhist, Böri Buka. A fragment from an accordion book of an unidentified text was printed in 1361 in Ganzhou (no. 154), and another fragment of an unidentified text was printed on behalf of the emperor in Zhongdu (no. 142). Unfortunately, for the latter no further details are available, and in the light of the consideration made about the multi-text accordion book (no. 130), also in this case we are unsure about the identification of this city. Nonetheless, there is tenuous evidence that xylographs could have been printed in Qočo. An accordion book of the Suvarnaprabhāsottamasūtra (no. 40) was printed and distributed in the 14th century in one hundred exemplars on behalf of the Idiqqut Köncök for the benefit of his parents. Fragments of two other accordion books of unidentified texts (no. 144 and 149) printed on behalf of the Idiqqut Köncök have also come to light (according to the colophon, no. 149 was printed in five-hundred exemplars). Moreover, an accordion book of the Aparimitāyurjñānanāmamahāyānasūtra (no. 42) was printed and distributed in one hundred and ten exemplars, on behalf of Buyan Kaya Sal, the sister of the Idiqqut Köncök's wife. The location of this family is controversial, they might have been the Idiqqut of Qočo or of Yongchang (Kasai 2008, 112-13; Zieme 1992, 52-54). Finally, a fragment of an unidentified text (no. 155) printed before 1300, and probably commissioned by the empress Buluyan, was found in Dunhuang.

Tempting as it might be, the hypothesis of a printing house active in Qočo seems improbable. The important role played by the Uighurs at the Mongolian court in the 13th and 14th century certainly accounts for the production of the Uighur prints. The role of the Mongols in the printing of Tibetan texts is also well known, as well as their involvement in the printing of Chinese texts. An

excellent example of the skilfulness of the printers active in the Mongolian capital in the 14th century is provided by the quadrilingual prints of the Namaskāraikavimsatistotra to Tārā, containing the Sanskrit text in Pāla script, along with the Tibetan, Mongolian and Chinese translations (Zieme 1982, 1989). A similar type of print has been found also in the Turfan area, TibHT 107. These two fragments of a xylograph contain the Namaskāraikaviṃśatistotra in three languages: the Sanskrit text in Pāla script, the Tibetan translation in dBu can, and only three characters in Uighur script and language.<sup>26</sup> The texts are printed under the image of two different forms of this deity. Is it too far fetched to assume that also TibHT 107 was a quadrilingual xylograph? Moreover, if we assume that also the Sanskrit xylograph were printed in Dadu, the use of the Pāla script in SHT 645 and SHT 646 is easily explained with the Tibetan cultural influence at the Mongolian court (as explained above, the Pāla script in its derivative forms was employed in Tibet for ornamental purposes). Likewise, We can account for the multilingual marginal titles and foliation in SHT 612 and SHT 645, which most probably had the function of instructions for Chinese and Uighur printers (or librarians?).<sup>27</sup> Another interesting witness of the broadness of this printing activity is SHT 646, in the middle of which (lines 3 and 6) Tangut characters are to be found.

On the other hand, this explanation raises daunting questions: why were the Sanskrit xylographs found in Qočo? Who commissioned them? What was their purpose? The great variety of languages in these xylographs almost automatically leads to questions about multilingualism in Turfan. It is an accepted view that there must have been quite a few Uighur-Chinese bilingual individuals (Gabain 1967, 28–29), but the question remains of the status of the Sanskrit and Tibetan texts. Sanskrit can be considered the "church language" of Central Asian Buddhism, and given the ritual value of the hymns, we might speculate that the Sanskrit and/or the Tibetan versions of TibHT 107 were recited even by persons who didn't understand the languages (after all, they were provided with a translation on the same page).

Even if this hypothesis explains the occurrence of other ritual or magical Sanskrit texts (like the *dhāraṇīs*), the purpose of canonical texts such as the *Samyuktāgama* remains unclear. Were they meant to be read? If yes, by whom? How well-known was Sanskrit during the Uighur domination in Turfan? A

For the identification of the language, see Zieme 1989. The fragments preserve parts of the first and third  $p\bar{a}da$  of stanza 5 in TibHT 107b (first line, 5a:  $namas\ tutt\bar{a}rah\bar{u}mk\bar{a}[ra]$ ; second line, 5c:  $[sa]ptalokakram\bar{a}[k.]$ ), while TibHT 107a preserves parts of the second and fourth  $p\bar{a}da$  of stanza 6 (first line, 6ab: [ma] |  $marudviśveśvar\bar{a}rcite$  |; second line, 6d: yakşapuraskrte).

<sup>27</sup> On the function of the Chinese foliation in Uighur prints, see Gabain 1967, 27–28.

comparison of the Sanskrit printed texts recovered with the extant Uighur Buddhist literature might provide an answer. Given the fragmentary character of the findings, obviously what we are looking for is not an exact correspondence, but rather a correspondence in terms of the typology of the texts (for instance, parts of the *Vinaya*, regardless of which exact parts). Almost all identified Sanskrit texts represented in the xylographs have Uighur counterparts:

- Āgamas: Samyuktāgama (Appendix A nos. 3 and 4; cf. Elverskog 1997, 20–22, no. 3); Cittānupaśyanā-Smṛtyupasthāna and Dharmānupaśyanā-Smṛtyupasthāna (Appendix A nos. 5–6; Elverskog 1997, 18–20, no. 2 Madhyamāgama);
- 2. *Vinaya* texts (Appendix A no. 16, *Saṃghabhedavastu*; CF. Elverskog 1997, 31–31–22, nos. 11–12, *Vinayavibhaṅga* of the Mūlasarvāstivādins and of the Sarvāstivādins);
- 3. Suvarṇaprabhāsottamasūtra (Appendix A no. 1, Deśanā corresponding to Suvarṇaprabhāsottamasūtra III.17–27; cf. Elverskog 1997, 65–71, no. 37; 135–38, no. 79);<sup>28</sup>
- 4. *Catuṣpariṣatsūtra* (Appendix A no. 1; cf. Elverskog 1997, 26–27, no. 7, *Disastvustik*);
- 5. Stotras (Appendix A no. 7; cf. Elverskog 1997, 126–29, no. 75 B);
- 6. Dhāraṇīs: Sitātapatraḥṛdayamantra and Sarvatathāgatoṣṇīṣasitātapatra-dhāraṇī (Appendix A no. 13 and 17; cf. Elverskog 1997, 108–110, no. 62; Sarvatathāgatoṣṇīṣavijayanāmadhāraṇī (Appendix B no. 14; cf. T III M 209).

The only Sanskrit text without any Uighur correspondence is the  $\hat{S}atas\bar{a}hasrik\bar{a}$   $Praj\tilde{n}\bar{a}p\bar{a}ramit\bar{a}$  (SHT 645, to which one may add SHT 646, an unidentified  $Dh\bar{a}ran\bar{\iota}$ ). Is this a fortuitous case, or did the  $Praj\tilde{n}\bar{a}p\bar{a}ramit\bar{a}$  enjoy a different status than other Sanskrit texts? As we have seen, SHT 645 is a peculiar print ( $poth\bar{\iota}$  in Pāla characters), probably it had a cultic value and was meant to be worshipped rather than read. A similar remark can be made also for the  $dh\bar{a}ran\bar{\iota}$ s and the stotras: the former had magical protective value per se, while the latter were perhaps recited in the original Sanskrit. If we turn to the rest of texts, the  $\bar{A}gamas$ , the Vinaya texts and the  $Catusparisats\bar{\iota}tra$ , we have to come up with a different explanation. According to Elverskog, the Uighur versions

On the centrality of this *Deśanā* for the development of the *Suvarṇaprabhāsottamasūtra*, cf. Nobel 1937, and Elverskog 1997, 65: "The text probably was built up around the confession of sins found in chapter 3 of the Sanskrit version, and over time it was continually expanded with the addition of *jātaka* stories, an exposition of *śūnyatā* (emptiness), political ideas of kingship, and certain Tantric concepts." Cf. also the metrical *Deśanā* in SHT 1105, Appendix A no. 10.

of the latter two were translated from a Sanskrit original (1997, 10). Is this the explanation for the presence of Sanskrit xylographs of such texts, even after the Indian missionary activity in Central Asia had ceased? A confirmation of this hypothesis might be found in the bilingual Sanskrit-Uighur manuscripts recovered in the Turfan area. In fact, these fragments include parts of the *Vinayavibhanga* of the Mūlasarvāstivādins, as well as of the *Samyuktāgama* and the *Madhyamāgama* (Gabain 1954, Hartmann and Maue 1996, and Maue 1996). Maybe the Sanskrit prints of these texts were based on the manuscripts used for the Uighur translations, and were still used as reference works in a monastic environment (or to learn Sanskrit?).

### 3 Sanskrit Lithographs

We now turn to the world of lithography, the first printing technology that made a real impact in South Asia and had more immediate and far-reaching effects than typography. Invented by Alois Senefelder in Munich in 1798, lithography is based on a relatively simple process:

The key to the process is the basic principle that grease and water do not mix. If marks are made on a flat, porous stone surface with a waxy crayon or other greasy substance it will stick to the stone and be partially absorbed. The whole surface can then be moistened and the water is attracted to the stone but repelled by the grease. If the stone is then inked up with greasy printing ink, the ink will adhere to the greasy marks but be repelled by the water. The ink can then be transferred to a sheet of paper through the application of pressure. Unlike relief printing where the printing surface is raised, or intaglio where the ink is contained in incised grooves in a metal plate, in lithography the printing surface is flat. (Banham 2007, 284)

The introduction of lithography in South Asia has already been described in detail by G. Shaw, therefore I mention here only the relevant details. Lithography was introduced in South Asia in the 1820s, and the two main centers of production were Mumbai and Calcutta (Shaw 1993, 91; Shaw 1998, 91). Soon it became clear that the technique had to be adapted to the Indian climate, and many technical shortcomings had to be dealt with. Particularly important was the preparation of the stones and the inks (for the latter, special recipes were developed, see Shaw 1993, 91).

Lithographic printing was widely employed for the production of books in Hindi and Urdu, and accordingly the scholarly literature on this topic

is vast.<sup>29</sup> On the contrary, virtually no specific study has been devoted to Sanskrit lithographs. Nevertheless, even a cursory examination of selected catalogues confirms the great popularity enjoyed by this technique in South Asia for printing Sanskrit books as well: 807 lithographs are listed alone in the Nepal German Manuscripts Cataloguing Project (NGMCP) database. Unlike in the case of xylographs, where the (unfortunately) limited amount of material at our disposal allowed a comprehensive study, it is not possible to provide a complete analysis of such a vast amount of material. A bibliographical study of Sanskrit lithographs is still a desideratum, and as long as no reliable census is available, we are left in the blind as to what kind of Sanskrit works have been published by means of this printing technique. Therefore, a reliable study on the impact and circulation of Sanskrit lithographs has to be postponed. Nevertheless, a close examination of selected material might reveal other aspects of lithographic print culture, which might have had an impact on the attitude of readers towards the printed book. I focus here on one example of a Sanskrit lithograph, the Śūdrakamalākara by Kamalākarabhaṭṭa, a Sanskrit manual about the conduct of life and social behavior for śūdras composed in the 17th century (cf. Kāṇe 1930, 432-37). This lithograph was published in Mumbai in 1861 and is currently kept in the Cambridge University Library (figures 6.9-6.13). Although printed in the pothī format, it is now bound as a volume in the codex format. The manuscript of the Śūdrakamalākara examined here (figures 6.14-6.17) is kept in the Anandashram Samstha in Pune. According to the colophon, it was written in 1817 in the Kṛṣṇātīraṃṣālī (?)

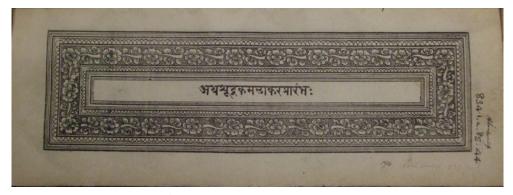


FIGURE 6.9 Lithograph of the Śūdrakamalākara, folio 1 recto, title page. Black and white illustration imitating wooden covers of manuscripts (for a complete description, see Appendix B).

<sup>29</sup> See for instance the works listed in Stark 2007.

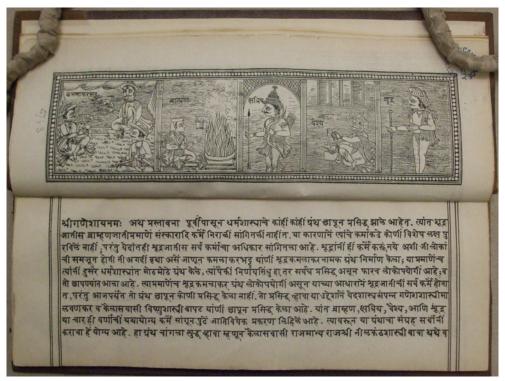


FIGURE 6.10 Lithograph of the Śūdrakamalākara, folio 1 verso. Black and white illustration divided into four panels (from left to right: the author of the treatise; figures representing the four varnas in this order: brāhmaṇa, kṣatriya, vaiśya, and śūdra), and folio 2 recto (for a complete description, see Appendix B).

village by a certain Bāka for his own use as well as for others. Most probably the scribe was not a professional, and the overall impression conveyed by the script and the carelessly planned layout confirms this conclusion. A detailed description of both manuscript and lithograph is provided in Appendix B. A comparison of the layout features of the lithograph with that of the manuscript shows that basically there are no differences between the two: they are both  $poth\bar{\imath}s$ , the writing space is delimited only by double marginal frame lines, and for the segmentation of the text the same set of symbols and strategies are used. Moreover, paratextual elements such as the running marginal title and the foliation are in identical positions in both the manuscript and the lithograph. Finally, pieces of information that in Western printed books are usually found in the title page, such as place and year of printing, are provided in a colophon after the main text. In the lithograph and the manuscript of the  $S\bar{u}drakamal\bar{a}kara$ , the structural elements of the two colophons are identical, as shown in the following table:

TABLE 6.1 Structural analysis of the colophons in the Śūdrakamalākara manuscript and lithograph.

Element	Manuscript	Lithograph
Name of era	śake	śake
Year	1739	1783 trināgasapteṃdumite
Name of year	īśvaranāmasaṃvatsare	durmatināmasaṃvatsare
Month / fortnight / day	caitravadyapratipadāṃ,	mārgaśīrṣamāsi,
	saumyavāsare	kṛṣṇapakṣe, ravivāsare
Place of production	kṛṣṇātīraṃsālīgrāmamadhye	muṃbākhyapaṭṭaṇe
Formula of completion	idam pustakam [] nirmitam samāptam	idaṃ pustakaṃ samāptam
Name of scribe	bhaṭṭopanārakagoviṃdabhaṭṭātma-	•
	jabākena likhitaṃ	aṃkito 'yaṃ śilākṣaraiḥ
Scribal note	svārthaṃ parārthaṃ ca [] evaṃ vādati pustakaṃ    śrīrāma	_

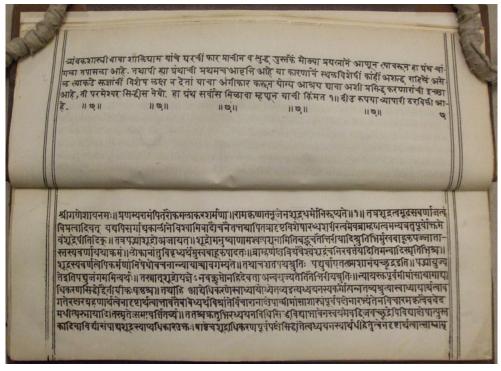


FIGURE 6.11 Lithograph of the Śūdrakamalākara, folio 2 verso and 3 recto (for a complete description, see Appendix B).

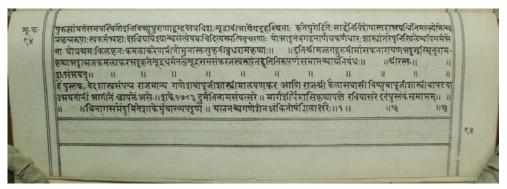


FIGURE 6.12 Lithograph of the Śūdrakamalākara, folio 94 verso, colophon (for a complete description, see Appendix B).



FIGURE 6.13 Lithograph of the Śūdrakamalākara, folio 95 verso. Black and white illustration imitating wooden covers with carved floral decorations (for a complete description, see Appendix B).

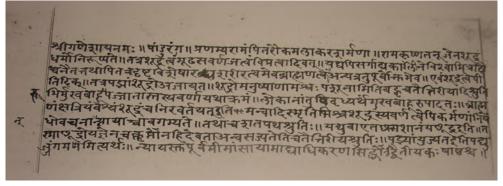


FIGURE 6.14 Manuscript of the Śūdrakamalākara, folio 1 recto (for a complete description, see Appendix B).

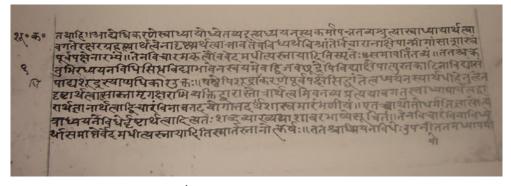


FIGURE 6.15 Manuscript of the Śūdrakamalākara, folio  $\imath$  verso (for a complete description, see Appendix B).

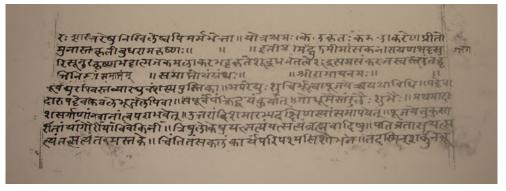


FIGURE 6.16 Manuscript of the Śūdrakamalākara, folio 124 recto, colophon (for a complete description, see Appendix B).

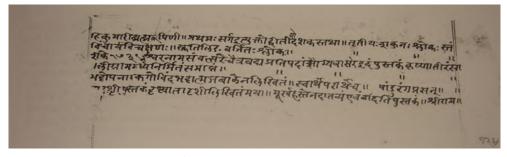


FIGURE 6.17 Manuscript of the Śūdrakamalākara, folio 124 verso, colophon (for a complete description, see Appendix B).

The only differences lie in the terminology employed to indicate the name of the scribe, and the absence of the scribal note in the lithograph. If it is clear that the manuscript was written (Skt. likhitam) by a certain Bāka, son of Govinda, the terminology for the preparation of the lithograph is ambiguous. We know that a certain Gaṇeśa printed the text (Skt. aṅkito, scil. granthaḥ) with effort (yatnataḥ) by means of lithographic process (Skt. śilākṣaraiḥ, lit. "stone characters"). For the preparation of a lithograph, a manuscript had to be written, which was subsequently pressed on the stone. Was Gaṇeśa the scribe and the printer as well? Or does the word aṅkita only mean that he prepared the manuscript? Moreover, if we take into consideration that at least three different hands can be distinguished (as described below in the Appendix B), the plot thickens: was Gaṇeśa only the last scribe, and did he not credit the others? Or is the change of hand to be ascribed to different writing tools used by him in the preparation of the master copy?

The scribal note in the manuscript includes three elements: the indication of the purpose of the manuscript ("for my own sake as well as for the sake of others"), followed by very common statements usually added at the end of manuscripts in metrical form ("I have written this book as I have seen it. 'Do not give [me] in the hand of fools!' says the book"); an invocation to Rāma closes the whole manuscript. It should be stressed that although quite common, scribal stanzas are not always present in manuscripts (and very often they are written in poor Sanskrit, like in this case: the first two pādas should read either yādṛśaṃ pustakaṃ dṛṣṭvā tādṛśaṃ likhitaṃ mayā or yādṛśāṃ pustikāṃ dṛṣṭvā tādṛśa likhitā mayā).

The codicological features as well as the paratextual elements of the lithographed book reveal the clear intention of imitating manuscripts. This sort of imitation is pushed to such an extent that the recto of the first folio and the verso of the last folio are imitations of wooden covers of manuscripts (see the section about layout in the description provided in Appendix B).

### 4 Sanskrit Incunabula

In order to get an idea about the Sanskrit works printed in South Asia in the pre-colonial period, the first step is to turn to Graham Shaw's (1987) *The South Asia and Burma Retrospective Bibliography* (*SABREB*). *Stage 1, 1556–1800*. This is what I did, but what I found was rather disappointing. According to Shaw, prior to 1800 only a single Sanskrit work had been printed in South Asia: the *Rtusaṃhāra*, or as it runs in the title of the printed volume, "The seasons: a descriptive poem, by Cálidás, in the original Sanscrit." This book was printed in

Calcutta at the Honorable Company's Press in 1792, and the "entire text is not printed in Devanāgarī but in Bengali characters" (Shaw 1981, 149). The editor was Sir William Jones, and it is important bibliographically as the first Sanskrit work ever printed with movable type in India. Calcutta confirms its role as a printing hub in South Asia also as far as printing with movable type is concerned, and the first Sanskrit works in Devanāgarī characters were printed in this city. Between 1801 and 1832, the Serampore Press of the Danish mission produced an output of "more than two hundred and twelve thousand volumes in forty different languages" (Grierson 1903, 241). The pivotal role of the Serampore Press has to be acknowledged also in that it developed and cast types for a wide range of South Asian scripts (ibidem). As is to be expected, the list of Sanskrit books printed at this press includes translations of the Old and New Testament. However, more interesting is the range of works printed in order to fulfil the needs of books in Sanskrit and other languages for the education of civil servants in the College of Fort William: William Carey's A Grammar of the Sungskrit Language (1804, 1806 and 1808), the Rāmāyāṇa (1806), the Mugdhabodha by Vopadeva<sup>30</sup> (in Bengali characters, 1807), the Nāmalingānuśāsana by Amara (with an English interpretation and annotation by E. T. Colebrooke, 1808 and 1825), the Sānkhyapravacanabhāṣya by Vijñānabhikṣu (in Devanāgarī characters, 2nd edition 1821) (Grierson 1903, 254). Moreover, Henry Thomas Colebrooke commissioned Carey to print a reader for the students of Fort William, containing "the Hitopadeśa fables, Appaya Dīksita's abridgment of Dandin's Daśakumāracarita story and Bhartrhari's three śatakas (centuries) of poetical aphorisms" (Rocher and Rocher 2012, 73).

The Serampore press was not able to print enough books to fulfill the needs of Fort William College, and in 1807 a printing press entirely run by Indian personnel was established in the College, thanks to Colebrooke's support. In 1809 the press became independent under the ownership of Paṇḍit Bāburām. The takeover by Bāburām, the press had a short life span, and "owed its survival until then to Fort William's need to adapt Sanskrit classics for classroom use" (Kopf 1969, 118). The very first books published by this press were Sanskrit works that were interesting to Colebrooke, mostly *kośas*. Among these books, particularly interesting is a volume including the *Amarakośa*, the

<sup>30</sup> In this early period of Sanskrit studies, this grammatical treatise was deemed to be superior to Pāṇini's *Aṣṭādhyāyī* for didactical purposes (Rocher and Rocher 2012, 68–70).

Before 1800, the first printing press "used by Indians for Indians (without any direct European stimulus or involvement) was when two Parsee compositors working at the Courier Press in Bombay produced an edition of their Zoroastrian holy book, the Khordeh Avesta, in 1798" (Shaw 2007, 131).

*Trikāṇḍaśeṣa*, the *Harāvalī*, and the *Nānārthakośa* by Medinī, together with an index by Paṇḍit Vidyākara Miśra (Rocher and Rocher 2012, 74). The description provided by R. and L. Rocher's enables us to have a very precise idea of its nature:<sup>32</sup>

Setting a pattern of Sanskrit Press publications, it was printed in the traditional format of Indian manuscripts, oblong and without title pages, but with extensive colophons. Introductory verses announced that the book appeared 'at Mr. Colebrooke's behest' (*Kolabrūka-sāhab-ājñayā*). (Rocher and Rocher 2012, 74)

Like in the case of lithographs, for the sake of clarity and due to the editorial constraints, I have chosen to deal only with two early printed editions of one single work, Bhāravi's Kirātārjunīya. The first edition of this work (figures 6.18-6.20) was printed in 1814 at Fort William, when the press was under the direction of Babūrām. A closer look at some features of this Sanskrit incunabulum confirms that the style of the books printed by Bāburām is a simple adaptation of a manuscript with few minor differences. Even though the imprint/ title page is a feature that in the form seen here is absent in manuscripts, it retains elements of manuscript colophons. The number of verses (śloka) of the main text is indicated, as if it were a manuscript and the scribe would have to be paid (atra kāvye mūlaślokasamkhyā || ekapañcāśadadhikasahasram 1052). The presence of introductory verses about the occasion of preparation of the edition resembles the scribal verses found in manuscripts.<sup>33</sup> Finally, the publication date is given in four different calendars. Other features of manuscripts crept into this printed book, such as the use of foliation instead of pagination, and the nature and appearance of paratexts (running marginal abbreviated title, number of the sarga). Moreover, the overall layout of the complex main text-commentary is basically the same as in a manuscript in the tripāṭha format. The persistence of elements of manuscripts in incunabula is not peculiar to South Asian print culture, yet the choice of the Indian editors and printers

<sup>32</sup> Although this description is rather fitting, the copy of this book I consulted (Cambridge University Library 834: 4.c.80.1) is not in the "oblong," i.e. *pothī* format of Indian manuscripts, but in the Western book format. Otherwise, the 1814 edition of Bhāravi's *Kirātārjunīya* examined by me has the same type of layout.

<sup>&</sup>quot;Gildemeister (Bibliotheca Sanskrita, 1847,# 331, p. 63) was puzzled by a king Mallāṭa mentioned in the *maṅgala* verses of Bābūrāma's edition of the *Kirātārjunīya* (Calcutta 1814), śrīmallāṭanṛpājňayā. In fact, the book was published at the instance of the lāṭa-nṛpa, i.e., the governor-general" (Rocher 2009, 512).

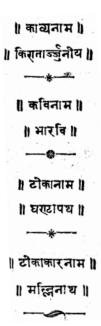


FIGURE 6.18 Kirātārjunīya, 1814 edition, title page (for a complete description, see Appendix C).

in the beginning of the 19th century was surely more deliberate than the one of their European counterparts in the 15th and 16th century. Even though they could rely on different models and draw inspiration from Western books set up with a different layout, they decided not to depart from the indigenous manuscript tradition.

On the other hand, the 1847 edition of the same work (figures 6.22–6.23) already shows features borrowed from Western printed books: the layout of the complex main text + commentary is completely different, the paratexts (running marginal abbreviated title and number of the sarga) have moved to the header, and instead of a foliation, a pagination is employed. However, the main difference between the two editions is in the degree of readability and the means employed to achieve it. In the 1814 edition (figures 6.18-6.21), the first stanza is printed in the middle of folio 1V, slightly indented on the left and right, and separated from the preceding and following nine lines of commentary only by means of a double interlinear space. Moreover, it is preceded by the rubric (Skt. namaskāra) śrīgaņeśāya namaḥ, like in manuscripts, and is printed on two lines, even though the meter has four lines (Skt. pāda). More importantly, both the text of the *mūla* as well as that of the commentary are completely printed in scriptio continua. In other words, little thought has been paid to enhance the readability of this printed book against its manuscript counterparts.

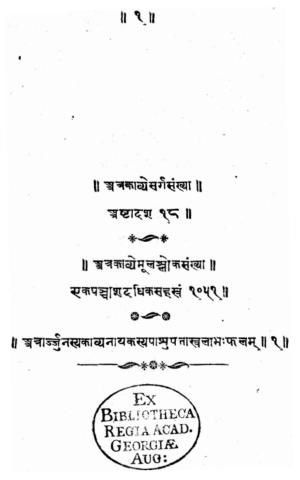


FIGURE 6.19 Kirātārjunīya, 1814 edition, page 1 (imprint; for a complete description, see Appendix C).

A very different approach has been adopted for the 1847 edition, in which the text is far more reader friendly. First of all, the layout solution for the main text and the commentary is a clear improvement. Albeit not always immediately under the stanza, the commentary to each stanza begins on the same page where the stanza is printed, and continues up to the next stanza in the main text, helping the reader considerably to navigate between the two. Other important improvements are that the stanzas are printed on four lines, representing their structure in four  $p\bar{a}da$ s, and that the text is not printed in *scriptio continua*, the words are divided (even if not always, in the

॥ शाकेवडग्रिसप्रेन्टसम्मितेवत्सरेश्रभे ॥ ॥ शाके ९७३६ ॥ ॥ चन्द्राद्रिवसुभूमानेविक्तमादित्यवत्सरे॥ ॥ संवत् १८७१॥ ॥ भूयुग्मदृष्टिधर् ग्रीसंमितेयवनाद्दे ॥ ॥ सन १२२१ साल॥ ॥ ञाषाङस्मिन्पक्षेतृनीयासामवासरे॥ ॥ वेटभूमिवसु चन्द्रमासनई सवीप्रमान ॥ ॥ मः हजूनकेवाइ साक्ष्योयस्य परधान ॥ ॥ सन् १८१४ ईसनी। माः २२ जून॥ FIGURE 6.20 Kirātārjunīya, 1814 edition, page 2 (imprint; for a

complete description, see Appendix C).

great majority of cases). For instance, in the 1814 edition the first stanza is printed as:

śriyaḥkurūṇāmadhipasyapālanīmprajāsuvṛttiṃyamayuṅktaveditum, savarnilingīviditahsamāyayauyudhisthiramdvaitavanevanecarah | 1 | 1

In the 1847 edition, however, it is printed as follows:

śriyaḥ kurūṇāmadhipasya pālanīm prajāsu vṛttim yamayuṅkta veditum || sa varnilingī viditah samāyayau yudhişthiram dvaitavane vanecarah || 1 ||

The tendency towards printing more easily readable and better accessible texts did not cease, and later editions gradually introduced other means to facilitate

॥कि॰स॰॥ ॥सर्ग २॥ ॥ २ ॥ नीयंखंमस्काशंचिकोषुं सिकोधिताशं विद्यपरिसमा प्रिसम्प्रायाविच्छे देवक्षण फलसाधनलादाशं निमिक्त्यावस्तु निर्देशो वापितन्तु खिमया द्या शो वीदा द्यान्यतम् स्यप्रवन्धमुखलक्षण लाचवने चरस्य पृधिष्ठिर प्राप्तिरू पंवस्तु निर्द्धि स्वया मुपिक्ष पति । श्रियइति । श्रादितःश्रीश्र स्प्रयोगाद्ध र्णगणादिक्ष्यद्वि र त्रोपयुञ्चते । त दुक्तन्देवता वाचकाः श्र हाये चमद्रादिवाचकाः । तस्वै नैवनिद्याः स्यु लिपिते। गण्य ने विचिति । कुरू ग्रांतिवासाः कुरवे। जनपदाः तस्यितवासद् स्यण् प्रययः जनपदे लुक् । तेया मधिपस्य दुर्योधनस्यसम्बन्धिनीश्रेषेषष्ठी । श्रियोग्रञ्च वस्त्याः । कर्तृ कर्मग्रोः क्रतीतिकर्मश्रायष्ठी । पाल्यतेश्वनयेतिपालनीताम्प्रतिष्ठापिकामियशेः पृजा ग्रामस्त्रलात्सम्पद इतिभावः । कर्गाधिकर ग्रायोश्चितस्त्र त्रेणात्रकर ग्रोल्यु इटिङ्का

श्रीगर्णेशायनमः ॥ श्रियःकुरूणोमधिपस्यपाननीम्प्रजासु वृत्तियमयुङ्कते दिनुम्। सर्वार्णेनिङ्गीविदितःसमाययायुधिस्टिरंद्वैतवनेवनेचरः ॥ ९॥

स्विद्यादिनाङीप्। प्रजासुजनेषुविषये। प्रजास्यात्मनतीजनइत्यमरः। वृतिं स्वद्यारंविदिनुंज्ञानुंयंवनेचरं अयुङ्कानयुक्तवान्। वर्षः प्रशस्तिरस्यास्तीर्तिणिनिप्रस्याः। तदुक्तम्। स्वर्णंकीर्तनंके निः प्रेक्षणं गृह्यभाषसम्। संकल्पे ऽध्यवसाय स्वित्यानिवृतिरेवच॥ १॥ रगन्त्रीयुनमञ्चानम् वद्यानमनीयिणः। विपरी तम्ब्रह्मचर्यमेनदेवाञ्चलक्षसम्॥ २॥ स्वद्यविधमेयुनाभावः प्रशस्तिः। व सिब्रह्मचरीनस्य निङ्काञ्चल्लस्य स्वास्तीनिवर्णि निङ्कावह्मचरिवेषवान् इत्यर्थः स्वित्रह्मचरिवेषवान् इत्यर्थः स्वत्यक्षः वनेचर्गीतिवनेचरः किस्तः भिद्धः किस्त्यवर्णनिन्दाः चेष्ववान् इत्यर्थः स्वर्णाः वनेचर्गीतिवनेचरः किस्ताः भिद्धः किस्त्यव्यक्ष्यः । विदिनवेदन मस्यः स्वीतिविदितः पर्वृत्वाक्षाञ्चानवान् इत्यर्थः । अर्थः आदिभ्योज्ञित्यच् प्रवयः अथवाकर्तरि

FIGURE 6.21 Kirātārjunīya, 1814 edition, folio 1 verso (for a complete description, see Appendix C).

reading, such as types in different bodies to distinguish the main text from the commentaries (the former were usually printed with bigger bodies), or by printing in a bold face the first word of the main text when quoted as a lemma in the commentary (Skt. *pratīka*).

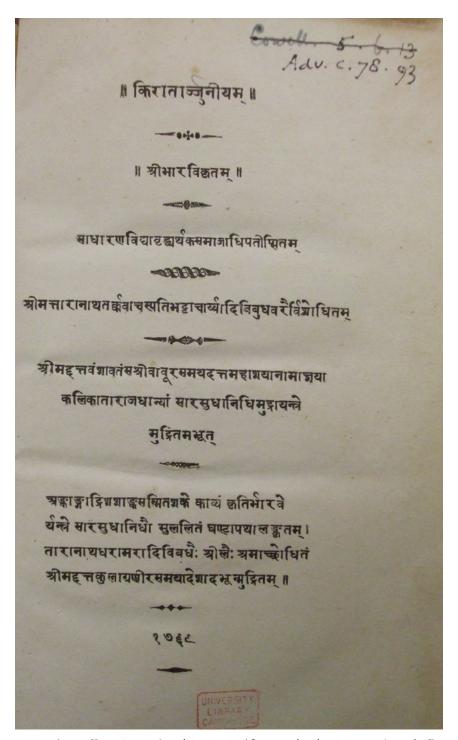


FIGURE 6.22 Kirātārjunīya, 1847 edition, imprint (for a complete description, see Appendix C).

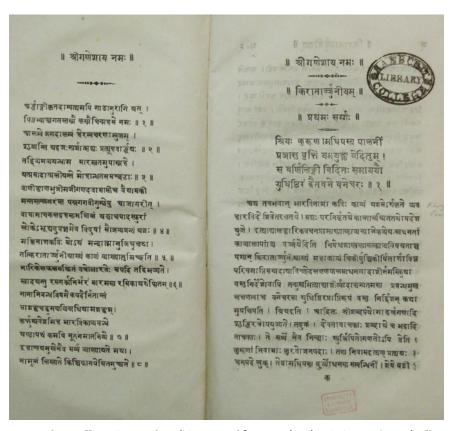


FIGURE 6.23 Kirātārjunīya, 1847 edition, page 1 (for a complete description, see Appendix C).

# 5 Final Remarks

With regard to the literature that argues for the revolutionary character of print culture as compared to manuscript or oral culture, one may divide the scholars into two categories: the "Macluhanians" and the "Eisensteinians." The first type focuses more on the psychological impact of the introduction of a new technology on the human mind – in our case, printing – for instance by asking questions about how "the interiorization of media such as letters alter the ratio among our senses and change mental processes" (McLuhan 1962, 24). The second type of scholar is more interested in the economical, cultural, social and even political consequences caused by the introduction of a new technology such as printing, and strives to trace these consequences within their historical and geographic research foci. In what follows, I will try to provide remarks relevant to both these sets of scholarly concerns.

# 5.1 Elizabeth Eisenstein's Agent of Change in South Asia

In the realm of South Asian book history, it is quite a daunting task to write about any of the influences of the introduction of printing on South Asian history and culture. In fact, the mantra recited by almost all scholars is that the introduction of printing in South Asia on a massive scale happened late, and mostly due to political, economical and Western cultural influence - in other words, it is yet another child of colonialism. Virtually all recent studies on the introduction of printing in South Asia simply highlight that it wasn't introduced on a massive scale before the 1800s, and leave the question about the reasons of this phenomenon more or less unanswered. If they try to provide an answer, they almost invariably refer to S. Pollock's article Literary Culture and Manuscript Culture in Precolonial India (Pollock 2007), in which he provides a more or less "monogenetic" answer to a rather complex and multi-faceted problem. For instance G. Shaw summarizes the points made by Pollock in his (otherwise) insightful contribution on South Asian book history in A Companion to the History of the Book (Eliot and Rose 2007), although he mitigates Pollock's statement about an "industrial" production of manuscripts by adding the remark that "whether such manuscript production was in fact truly on an 'industrial' scale requires much further research and validation" (Shaw 2007, 130). The "armature" of Pollock's article is fundamental to understanding why, according to him, there is basically a single reason for the absence of the development of a print culture in South Asia before 1800. As Pollock puts it:

In the last several decades scholarship on the invention, diffusion and eventual triumph of print culture has had a considerable impact on the writing of literary, social and even political history. [...] An alternative case could certainly be argued, that the event which was truly historic for literary cultures in India and defined them in the peculiar contours they often still bear, was the invention, diffusion and eventual conquest of manuscript culture, in its specific symbiotic relationship with the antecedent oral culture. The epistemic revolution of literacy, the production of manuscript books (over thirty million manuscripts are still extant), their dissemination in often massively reproduced and relatively stable form and, perhaps most important, their oral performance before large audiences over long periods of time, have had an effect on shaping imagination, sociality and power that is arguably deeper and more extensive than any attributable to print, middle-class book consumption (stunningly low in India), or the culture of private reading reinforced by print (though hardly generated by it). [...] These themes – the interplay

of the oral and the written; the materiality of manuscript culture; *what might be called script-mercantilism* – along with the peculiar mix, discernible throughout, of a dynamism that was measured and considered, and a stasis that may have been less a sign of deficiency than a sort of cultural strategy, form the armature of the following survey. (Pollock 2007, 77–78, emphasis mine)

The main reason adduced for the late introduction of print culture in South Asia is what Pollock defines as "script-mercantilism," as opposed to "print-capitalism." According to the American scholar, "script-mercantilism" is a typical feature of South Asian manuscript culture, consisting of its enormous productivity and efficiency, which led to the creation of a huge amount of manuscripts. Pollock states that the "more than thirty million manuscripts estimated still to be extant [...] represent the merest fraction of what must once have been produced," a figure that compared to the "some thirty thousand manuscripts" still extant "for all of Greek literature, classical, Hellenistic, and Byzantine" means that the Indian manuscripts exceed the Greek ones by a factor of 1000 (2007, 87). First of all, it must be stressed that the figure of thirty million manuscripts does not include only Sanskrit manuscripts, but also manuscripts in vernacular languages, and it is an estimate given by the late Prof. David Pingree based "on a lifetime of academic engagement with Indian manuscripts," and counting "both those [manuscripts] in public and government libraries, and those in private collections," while "the National Mission for Manuscripts in New Delhi works with a conservative figure of seven million manuscripts" (Wujastyk 2014, 159-60). On the other hand, the figure of thirty thousand manuscripts provided by him includes only manuscripts of Greek literature. In fact, if we were to include all manuscripts in Greek, Latin and vernacular languages produced in Europe from the 6th to the 15th century, we would come up with the figure of almost eleven million manuscripts (Buringh and van Zanden 2009, 416, table 1). If we take into consideration these revised estimates of manuscripts production in Europe and South Asia, we notice that the balance is different, and the number of European manuscripts (ca. eleven million) outweighs the number of South Asian manuscripts extant according to the National Mission for Manuscripts (seven million). Apparently, one could argue for the existence of a "script mercantilism" in Europe too, a fact that did not stop the diffusion of a strong print culture. Moreover, in the four cases adduced as instances of "the pre-print publishing industry of south Asia," Pollock addresses only very briefly and superficially some of the characteristic features usually considered to be - rightly or not - a consequence of the "revolution" caused by the printing

technology. According to E. Eisenstein these characteristics are dissemination, standardization, reorganization, data collection, preservation, and amplification and reinforcement (Eisenstein 1979). For instance, as an example of increased "dissemination" Pollock reports "the story of the production and dissemination of the Sanskrit-Prakrit-Apabhramsha grammar of the Jaina cleric and scholar Hemacandra, the Siddha-Hemacandra-Sabdanusasanam (c. 1140) [...] told in a fourteenth-century collection," relying only on this internal account to demonstrate "the conditions of mass production and the remarkable expanse of the Sanskrit cosmopolitan order within which it circulated," without providing any hard evidence about the number of manuscripts of this work still extant, nor about their codicological features. As to the "standardization" of texts, he refers to what he thinks is "the most remarkable example of religiously motivated, and tightly controlled, text-reproduction in pre-modern India," the diffusion of the Caitanyacaritāmṛta by Kṛṣṇadāsa Kavirāj, a poetic biography of the religious reformer Caitanya in Bengali language, about which he states that "there is none of Eisenstein's 'textual drift' here; print was not the sole bulwark against variation." In order to demonstrate this statement, a few lines later he merely reports the following passage, taken from a work (at that time, still in progress) by Tony Stewart, which actually contradicts Pollock's own statement: "Because of the tight control of Srinivasa in the reproduction of the Caitanya-caritamrta [...] there is decidedly little variation in the manuscripts – a critical edition of the Caitanya-caritamrta would in fact make no sense, because copies are virtually identical, with variation consisting of nothing more than the occasional spelling error, the insertion of paratextual material in the form of chapter/verse citations, or the appending of commentary" (Pollock 2007, 88-89, emphasis mine). In other words, the manuscripts of the Caitanyacaritāmṛta differed from one another exactly like many other South Asian manuscripts, which differ from each other precisely in terms of layout, presence or absence and typology of paratexts, the correctness and reliability of the language. Moreover, the presence or absence of a commentary is a crucial element: bibliographers, librarians, and readers would consider a printed edition of Vergil's Aeneid with Servius' commentary to be a completely different item than an edition containing Fulgentius' commentary, let alone one with the sole *Aeneid*. The fact that there is little textual variation in the manuscript tradition of the *Caitanyacaritāmṛta* doesn't mean that each and every manuscript of this work is identical.

It is undoubtedly true that print culture in South Asia had two formidable adversaries, oral and manuscript culture. Nevertheless, reasons other than "script mercantilism" might have played a relevant role in the lack of diffusion

of print in South Asia. A preliminary list might include (1) technical difficulty, (2) religious and cultural taboo, (3) economic inconvenience vis-à-vis manuscript production (including, but not limited to, script-mercantilism), and (4) political control and cultural censorship. In the following section, I will try to discuss some of these points.

As to technical difficulties, there is no reason to suppose that the characters of the various scripts used to represent Sanskrit were obstacles to the spread of printing in South Asia. After all, the printing techniques examined in the present article (xylography, lithography and movable type) were successfully employed, and there is no indication that there was any particular technical difficulty in printing Sanskrit texts in any script. Other technical factors involving the materiality of the book, probably combined with political control and economic inconvenience, might have contributed to the late dissemination of print culture in South Asia. If we look at the emergence and consolidation of print in other Asian regions, we notice that three (if not more) concurrent elements were present: paper technology, Buddhism, and a centralized and strong state structure. As epitomized by the passage of the Aparimitayurjñānanāmamahāyānasūtra quoted as an epigraph, the spreading of the Dharma by means of the production and dissemination of books is a central aspect of Buddhism.<sup>34</sup> It is not by chance that the 10th century Sanskrit xylographs from Dunhuang contain dhāranīs, nor that the Tibetan printed material found in Turfan includes small slips of paper stamped with mantras (as we have seen, the practice of stamping dhāranīs on clay tablets for mass distribution was already known in South Asia in the first half of the first millennium CE). If we look at South Asia, we find a situation different from the one in Central Asia, where paper, woodblock printing and Buddhism were present and widespread simultaneously. In the Indian subcontinent, the writing materials employed in the production of manuscripts were mainly birch-bark, palm-leaf, and paper. Of these three, only paper is suitable for printing, and mass production of paper could be considered a prerequisite for the emergence of print culture. Even if the introduction of paper in South Asia dates to the 12th or 13th century (or even earlier), a significant production of indigenous paper did not start before the 13th-14th century, albeit with different regional patterns: according to K. Janert, a wider use of paper started in northern India from the 13th century, in western India from the 14th century and in eastern India from the 15th century

Obviously, the most quoted passage about the Buddhist cult of the book is from the Aṣṭasāhasrikā Prajñāpāramitā, but I think that the centrality of the printing of dhāraṇīs in Central Asia called for a quote from a maybe less known, yet very widespread text.

(Janert 1955, 60). Strikingly, this period coincides with the decline and demise of Buddhism on the Indian subcontinent. In South India, other reasons might have played a role, such as the massive production of palm leaves for manuscripts, which might have rendered pointless the development of centres of paper production, above all if the demand for books was already met by the production of palm-leaf manuscripts. In addition, access to paper and other tools required for printing was often controlled by colonial powers.<sup>35</sup> In regions such as Nepal, where there was no colonial presence and paper was produced locally in great quantities and xylography was a known technique used to print Tibetan texts, other reasons may have contributed to the slow emergence of printing – for instance, the desire to maintain the secrecy of Tantric teachings, handed down from master to disciple by means of initiation in a closed lineage. The mistrust of the written word in the form of manuscripts has deep roots in South Asian culture, as witnessed by the very popular, anonymous Sanskrit stanza quoted as an epigraph to this article: "Knowledge stored in a book is [like] money in the hand of others – when the time has come to act, there is neither knowledge nor money." What is print, if not a technique that allows one to store knowledge in even more books, putting this wealth in the hands of even more persons? Unfortunately, we do not yet have enough reliable quantitative data about literacy rates, book markets and manuscript production in South Asia before 1800 to underpin these hypotheses. Nonetheless, an indirect confirmation of the picture presented here is provided by the case of Sri Lanka and Burma, two Buddhist countries where the production of manuscripts on palm-leaf continued well into the 19th century, and the printing technique was first introduced by the colonial powers. Moreover, at the time of annexation by the British, apparently in Burma the literacy rate was higher than in England, even in the absence of a print culture.36

# 5.2 The Gutenberg Galaxy in the South Asian Sky

South Asian Sanskrit lithographs as well as Central Asian Sanskrit xylographs share many common features with manuscripts. This fact is usually not taken into consideration, but has fundamental consequences on the alleged impact

As pointed out by G. Shaw: "As well as books, Britain was also the source of materials and manpower for printing in South Asia. Types, presses, printers' tools, ink, and particularly paper (as local varieties were found unsuitable for printing) all had to be imported" (Shaw 2007, 132).

On the introduction of print in Sri Lanka, see Wolf forthcoming; on Burma, see Ruiz-Falqués forthcoming.

this new medium has on the mind and attitudes of readers. First of all, the choice of retaining the  $poth\bar{\iota}$  format (or other manuscript formats, such as the accordion book) and the layout features of manuscripts is striking, all the more because it was not forced. It bears witness to a continuity, not to a change or rupture in book culture, and surely is not an agent of transformation. This phenomenon has been discussed by G. Shaw (2007, 127):

The one printing technology that did strike a cultural chord, particularly with Muslim communities, was lithography, introduced to South Asia in the 1820s. This was precisely because it enabled the printed book to imitate the characteristics of the manuscript which still held cultural authority. Ironically, it was print that appeared strange and produced problems of legibility in South Asia. This was why as late as the 1830s Christian missionaries in Orissa paid scribes to copy biblical texts onto palm leaves, a practice begun by the Danish missionaries at Tranquebar in south India in the early eighteenth century – print yielding to the more familiar manuscript letter-forms. But lithography overcame this problem by realizing a paradox: the mass-produced manuscript.

As I have tried to outline above, readers probably experienced no real difference while reading a manuscript, a lithograph or an incunabulum such as the 1814 edition of the *Kirātārjunīya*. In addition, manuscripts of a work with its commentary might have been even more readable than their printed equivalents, above all if their layout was carefully planned, for instance with lemmata (Skt. *pratīka*) in the commentary highlighted in red. Obviously, this remark is by no means limited to South Asian manuscripts, nor is it a sort of "layout revolution" limited to printed books, as is sometimes argued. In fact, in European book history this revolution happened almost seven hundred years before Gutenberg:

Around 600 Irish monks developed a system of writing that separated individual words, which greatly facilitated reading. Finally, around 800, modern punctuation, uniform script, and division into paragraphs were introduced, all also greatly helping the reader to understand the text quickly. In sum, a new information technology was created, which, as Ulrich Blum and Leonard Dudley argued, helped launch the European economy in the period that followed.

Blum and Dudley [...] argued that these innovations – and in their view in particular the standardization of Latin in 800 – launched not only the book but a new, uniform, and more efficient form of writing, helping

to promote European economy in the centuries after ca. 950. (Buringh and van Zanden 2009, 424–25 and 425, fn. 33)

In this case, a change of readers' habits (and possibly of their mental processes) did not occur on account of a change of medium, but on account of a *change within the same medium*. The divide is not between manuscript and print culture, but between manuscripts in *scriptio continua* and "marked up" manuscripts: the latter are closer to printed texts than to their manuscript predecessors.

# 5.3 Sanskrit Print Culture Reappraised

Print technology was introduced in South Asia only in the 19th century, having a belated cultural impact. As pointed out by many scholars, in South Asia the interface between the oral and the written word is very important. It is probably for this reason that the interface between the written and the printed word has been neglected, and little attention has been devoted to the aspect of the fixation of languages and texts that printing technology might have introduced. In the case of Sanskrit prints, this aspect has to be examined by closely taking into consideration the type of printing technique employed. As it is usually stressed, each manuscript of a given text is a unique artefact and differs from all other manuscripts of the same text. On the other hand the text of a printed book should be "identical" in all its exemplars (they even share the same errors and flaws). In fact, the reproducibility of a text in virtually countless identical books is almost always adduced as one of the distinctive marks of "print culture" as opposed to "manuscript culture." Strictly speaking, xylographs and lithographs too are printed books. Nevertheless, from a philological point of view, one might be tempted to consider each book printed from a specific wood-block to be an apograph of the manuscript template used. Still, all printed exemplars should be identical. However, this is not always the case, and there are other possibilities which one has to take into account when dealing with xylographs, due to the printing technique, which plays a decisive role in the possibility of changing the text. As H. Eimer has pointed out, instead of a new manuscript, occasionally a template from an old printed book was used to produce a new wood-block. This technique results in the production of "books in which the distribution of the text is exactly identical both within the lines and on the pages, so that one is tempted to consider them as prints from one single woodblock set; yet minimal differences show that these prints were made from different woodblock sets" (translated from Eimer 1980, 196). There are cases in which the differences between the two sets of printed exemplars are minimal, but there are also cases in which the changes are more substantial

and involve major parts of the text. (All this affects also one of the main features of the printed book, its reproducibility without relevant changes, or in E. Eisenstein's words, the *standardization* effect of printed texts, as well as their alleged stability.) If we move to another book culture in which xylography was used, we can notice similar patterns. In a recent article, M. Schneider presents the preliminary results of his research on the *Selection of Direct Instructions on the Lotus Sūtra*, a work belonging to a specific genre of Japanese Buddhist commentarial literature, and focuses on the changes occurred during its transmission from manuscripts to xylograph editions. In his study, he examines and compares layout and paratexts (including colophons) of manuscripts and xylographs, outlining the differences in the presentation of the text due to the two different media. Strikingly, he comes to the conclusion that "quite contrary to the by and large faithful copying of the scribes, the publisher [of the xylographs] deleted at places substantial quantities of text while altering others" (Schneider 2011, 81).

In light of these considerations, I would like to pose the following question which might change our approach in relation to studies of the history of the book in Asia: xylographs and lithographs certainly aren't manuscripts, but should we still equate them to books printed with movable types and printing presses? Maybe it would be better to think of them as something similar to a manuscript and a printed book at the same time, and yet different from both.

The Sanskrit xylographs found in Central Asia are also very important as witnesses to the central role Buddhism played in the diffusion of print culture. They were printed under the aegis of the Mongol Yuan dynasty, most probably in the capital city, and not in the small city-states on the Silk Road. It is precisely at this court that other big printing projects were also initiated (such as the printing of Chinese and Tibetan Buddhist canons, as well as of Uighur translations of numerous Buddhist works). In the light of this consideration, the demise and fall of Buddhism in the Indian subcontinent before the successful introduction and diffusion of paper technology seems a very plausible explanation for the late diffusion of print culture in South Asia. As I have stressed above, also other causes might have been decisive, like the colonial powers' control of the technical means for printing, or the distaste of Indian Muslims for the printed books as aesthetically inferior to manuscripts. Complex cultural processes such as the late establishment of a print culture in South Asia can be understood only by taking into consideration their numerous facets. The history of Sanskrit print culture is an integral part of South Asian book history, and hopefully I have demonstrated that it can be of great help in this task.

# **Appendices**

The printing process of xylographs and lithographs involves the preparation of a manuscript master copy. These types of printed books thus have a liminal nature, and can be considered to be a sort of bridge between manuscript and printed books.<sup>37</sup> Accordingly, the description of xylographs in the SHT volumes follows the rules of manuscript description. Only a few selected pieces of information about each xylograph are provided in Appendix A, in the form of a translation from the description in the corresponding SHT volume. Similarly, the description of the lithograph in Appendix B follows the pattern employed in manuscript description. The incunabula are described following a slight modified version of the rules of bibliographical description laid out by Gaskell [1995, 321–60].

# Appendix A: Sanskrit Xylographs from Central Asia

In order to help readers who wish to check the original complete descriptions, the list is organized according to the sht volumes. Unless otherwise stated, the fragments are edited in the same sht volume in which they have been described. The originals of sht 613, 614a, 614b, and sht 5029 have been lost during the transfer after the war and have not been recovered. All xylographs are printed on paper, the size is given in height  $\times$  width in centimetres. As to the definitions of the scripts, the policy is to retain the original German names, instead of adding one more layer of confusion by translating them into English.  $^{38}$ 

## Volumes 1-4

# 1. SHT 575

Content: Deśanā, corresponding to Suvarṇaprabhāsottamasūtra 111.17-27.

Physical description: 3 folios, accordion-book,  $8 \times 13$ , 7 lines per folio, one-sided; nord-turkistanische Brāhmī, Typ b.

History: Finding location: Qočo, Ruin L (Plan Grünwedel); 1. Turfan expedition.

Bibliography: VOHD vol. X,1 (p. 254); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# 2. SHT 580

Content: Two texts: (a) *Catuṣpariṣatsūtra* (chapter 27f.13–17) and (b) unidentified fragment (mirror image).

<sup>37</sup> See for instance Formigatti 2011, 45–48.

On the difficulties created in paleographical studies on South Asian scripts by the proliferation of different terms, see Sander 2007.

Physical description: 2 central parts of folios, accordion-book, (a) 11  $\times$  28.1, 5 lines per folio, one-sided; (b) 11  $\times$  16.5, 2 lines per folio, one-sided with a final, page-wide line marking the end of the text; the letters are mirrored and rubbed off on the page; nord-turkistanische Brāhmī, Typ b.

History: Finding location: Murtuq, excavation behind ruin 8 in valley 2 of the foothills of Turfan; 3. Turfan expedition.

Bibliography: Waldschmidt; digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

3. SHT 612, SHT 1174, SHT 5029<sup>39</sup>

SHT 612

Content: Samyuktāgama, six Sūtras from the Parivrājakasaṃyukta:

Kokanada (ff. 157r-159v2),

Anāthapiṇḍada (ff. 159v3-162v1),

Dīrghanakha (ff. 162v2-167v1),

Śarabha (ff. 167v2–170v3),

Parivrājaka Sthavira (?) (ff. 170v4-172v2), and

Brāhmaṇasatyāni (ff. 172v3-173r5).

Physical description: 17 left corner fragments, 1 right corner fragment, and 3 fragments;  $poth\bar{\iota}$ , 10.8 × 28 (f. 173); 5 lines per folio, two-sided, single writing frame, string-hole space decorated with a lotus (15.5cm from the left side, interrupting lines 2–4).

History: Finding location: Qočo; 1. Turfan expedition.

Bibliography: a) SHT 612: VOHD vol. X,1 (p. 270); b) SHT 1174: VOHD vol. X,5 (p. 168f.); c) SHT 5029: VOHD vol. X,10 (p. 70); d); digitized on IDP (ff. 157, 159, 162; the online IDP catalogue entry wrongly describes it as "manuscript, ink on paper").

SHT 1174 (vol. 5)

Content: Fragment of a Sūtra with a text from the *Samyuktāgama* (*Parivrājakasaṃyukta*) Physical description: two parts of one folio, almost fitting together (first fragment  $11 \times 20$ ,8, second fragment 9,4 × 10,5), total dimension of the fragmentary folio ca.  $16 \times 32$ ; 5 lines per folio, two-sided, single writing frame; nordturkistanische Brāhmī, Typ b.

SHT 5029 (vol. 5)

Content: Fragment of a Sūtra with a text from the *Samyuktāgama* (sūtra 966 in the Chinese version).

<sup>39</sup> Since they probably belong to one single xylograph, for the sake of a better understanding a complete description of the SHT 1174 and SHT 5029 is provided immediately after SHT 612.

Physical description: a small fragment from the middle of a folio,  $4.5 \times 5.5$ ; 3 lines, two-sided; nordturkistanische Brāhmī, Typ b.

## 4. SHT 613

Content: Samyuktāgama (corresponding to Sūtra 831–832 in the Chinese version).

Physical description: 1 incomplete folio (fragments from the middle),  $poth\bar{t}$ , 10.6 × 26; 5 lines per folio, two-sided; nordturkistanische Brāhmī, Typ b.

History: Finding location: Qočo (bought); 1. Turfan expedition.

Bibliography: VOHD vol. X,1 (p. 270–72); VOHD vol. X,7 (p. 258 suppl.); VOHD vol. X,8 (p. 178 suppl.); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# 5. SHT 614a

Content: Cittānupaśyanā-Smṛtyupasthāna.

Physical description: one almost complete folio (folio 13.), unknown format (codex?),  $15 \times 15$ ; 5 lines per folio, two-sided; nordturkistanische Brāhmī, Typ b.

History: Finding location: Qočo, site K (Plan Grünwedel); 1. Turfan expedition.

Bibliography: VOHD vol. X,1 (p. 272ff); VOHD vol. X,7 (p. 258); Pischel 1904b: 1143 (Publ.) Pischel 1904b: table XI f. (facsimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# 6. SHT 614b

Content: Dharmānupaśyanā-Smṛtyupasthāna and beginning of the four Samyakprahāṇa.

Physical description: fragments, unknown format, 10  $\times$  15; 3 lines per folio, two-sided; nordturkistanische Brāhmī, Typ b.

History: Finding location: Qočo, site K (Plan Grünwedel); 1. Turfan expedition.

Publication: VOHD vol. X,1 (p. 272f.); VOHD vol. X,7 (p. 258); Pischel 1904b: 1143 (Publ.) Pischel 1904b: Tafel XII. (Faksimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

#### 7. SHT 627

Content: unidentified Stotra to the Buddhas.

Physical description: fragments of the left part of a folio; accordion-book(?),  $7.4 \times 6.4$ ; 7 lines per folio, one-sided; nordturkistanische Brāhmī, Typ b (original lost after the moving of the collections due to the war).

History: Finding location: Qočo, site O; 1. Turfan expedition.

Publication: Schlingloff (*Buddhistische Stotras aus ostturkistanischen Sanskrittexten*, 1955); (the online IDP catalogue entry wrongly describes it as "manuscript, ink on paper").

8. SHT 645

Content: Śatasāhasrikā Prajñāpāramitā. The following table of contents refers to the extant folios and fragments as described below; the first part is a transcription of the running titles on the left margins, followed by a solution of the abbreviation (commas indicate a new line in the original):

Folios 25–30: śasā (*śatasāhasrikā*), prajñā (*prajñāpāramitā*), ca kha (*caturtha khaṇḍa*), pra (*prathama*);

Folio 81: śa°, pra°, pra kha°(prathama khanda), ca (caturtha);

Folios 87–88: śa°, pra°, dvi kha°(dvitīya khaṇḍa), ca (caturtha);

Folio 200: [pra]jñā°, ca kha°(*caturtha khaṇḍa*), dvi (*dvitīya*); colophon on the verso: || śatasāhasryāh prajñāpāramitāyāś caturtha parivarttah ||;

Folio 215: śa°, pra°, tṛ kha°(*tṛtīya khaṇḍa*), ca (*caturtha*);

Folio 230: information only in Chinese;

Folio 245: śa°, pra°, pra kha°(prathama khaṇḍa), ca (caturtha);

Folio 260: information only in Chinese;

Folios 312v and 313r: information only in Chinese;

One fragment without foliation, but with the running title  $[pa\tilde{n}]$   $c\bar{a}$  vi  $s\bar{a}$  in Brāhmī script, suggesting that the fragment belonged rather to a xylograph of the  $Pa\tilde{n}cavim\hat{s}atis\bar{a}hasrik\bar{a}$   $Praj\tilde{n}\bar{a}p\bar{a}ramit\bar{a}$ .

Physical description: four complete folios and one almost complete folio, 5 fragments of a left corner, 4 fragments of a right corner, 3 fragments of a left margin, 1 fragment of a right margin, 1 big fragment of an upper margin, 21 small fragments; extant folios no. 25–30, 81, 87–88, 200, 215, 230, 245, 260, 312, .35; poth $\bar{l}$ ,  $\bar{l}$ 6 × 37; 6 lines per folio, two-sided; on the left margin of each recto and verso, abbreviated running title (including chapter titles) in Pāla script; on the right margin of each recto and verso, part of the chapter number and foliation in Chinese script; Pāla script.

History: Finding location: Qočo, site T I D; 1. Turfan expedition.

Publication: VOHD vol. X,1 (p. 289–90); VOHD vol. X,4 (p. 281f.); partially digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

9. SHT 646

Content: Dhāranī

Physical description: parts of 2 different folios (probably one left and one right), unknown format (codex?), 10.7 × 6.5; 9 lines per folio, two-sided, double frame lines; Pāla script in red ink.

History: Finding location: Qočo; 2. Turfan expedition.

Publication: VOHD vol. X,1 (p. 290–91); VOHD vol. X,4 (p. 340 suppl.); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# Volume 5

#### 10. SHT 1105

Content: recto: Chinese characters; verso: *Deśanā* (in the *anuṣṭubh* metre).

Physical description: part of a Chinese scroll, 8.8 × 12.7; recto: 5 lines of Chinese handwritten (?) characters; verso: 6 lines printed in nordturkistanische Brāhmī, Typ b. Together with SHT 1924, this fragment belongs to one manuscript. However, in the description of the verso of SHT 1924 it is stated that the Sanskrit text in Brāhmī is written with a calamus, and not printed.

History: Finding location: Sängim; 2. Turfan expedition.

Publication: VOHD vol. X,5 (p. 100–1); VOHD vol. X,8 (p. 195–6 suppl.); VOHD vol. X,5 (table 43, facsimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

#### 11. SHT 1110

Content: fragments of an unidentified Mahāyāna text.

Physical description: fragments from the middle of the folio,  $poth\bar{\iota}$  (?), 13.7 × 7; 6 lines per folio, two-sided; nordturkistanische Brāhmī, Typ b.

History: Finding location: Murtuq, site T II; 2. Turfan expedition.

Publication: VOHD vol. X,5 (p. 105, table 45, facsimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# 12. SHT 1173

Content: (a) end of a colophon (tas samāptaḥ); (b) verso: parts of the Stanza of Aśvajit (ye dharma formula).

Physical description: two fragments, one from the left side and one from the middle of the folio; accordion book (?),  $5 \times 6$ , 1 line (first fragment),  $7 \times 7.8$ , 2 lines (second fragment); nordturkistanische Brāhmī, Typ b.

History: Finding location: Qočo, site v'; 2. Turfan expedition).

Publication: VOHD vol. X,5 (p. 168, table 70, facsimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

# 13. SHT 1190

Content:  $Sit\bar{a}tapatrahrdayamantra$ ; on the verso, end of the  $Sit\bar{a}tapatrahrdayamantra$  (with the title as final rubric), and parts of the Stanza of  $A\acute{s}vajit$  (ye dharma formula). Physical description: one folio of an accordion book, 9.5 × 21.5; 5 lines per folio, double marginal frame lines; nordturkistanische Brāhmī, Typ b.

History: Finding location: Murtuq, site T III M 156; 3. Turfan expedition.

Bibliography: VOHD vol. X,5 (p. 184–85, table 79, facsimile); digitized on IDP (the online version of the catalogue entry wrongly describes it as "manuscript, ink on paper").

14. SHT 1191

Content: Sarvatathāgatoṣṇīṣavijayanāmadhāraṇī

Physical description: two fragments (upper left corner and a big part of the right side) of one folio, unusual format,  $19.7 \times 27.8$ ; the *akṣaras* are separated by wider blank spaces, giving the impression that each character stands alone; nordturkistanische Brāhmī, Typ b.

History: Finding location; probably Qočo, site T I; 1. Turfan expedition.

Publication: VOHD vol. x,5 (p. 185–86, table 79, facsimile); facsimile on IDP (the online IDP catalogue entry wrongly describes it as "manuscript, ink on paper").

15. SHT 1385\*

Content: probably a Śatasāhasrikā Prajñāpāramitā.

Physical description: one complete damaged folio,  $poth\bar{t}$ , 18.5 × 57.3, 6 lines per folio, two-sided, string hole blank space 7cm wide, ca 19cm from the left margin and interrupting lines 3–5 and 3–4; nordturkistanische Brāhmī, Typ b.

History: Finding location: Qočo, site T III D III; 3. Turfan expedition.

Publication: VOHD vol. x,5 (p. 247–48); \*the facsimile on IDP shows a fragment of a manuscript of the *Bhikṣuṇ̄prātimokṣavibhaṅga* of the Sarvāstivādins; moreover, in VOHD vol. x,5 (p. 243f.), this fragment is described as SHT 1358 + 1385, but unfortunately at the end of the volume no facsimile is provided.

## Volume 6

16. SHT 1430, SHT 4008, 4015, 4264, 4524b, 4591<sup>40</sup>

 $Content: \textit{Vinayavastu: Samghabhedavastu} \ (\texttt{SBV II: 198.14-199.11}). \ Physical \ description:$ 

a series of fragments belonging to the same folio:

SHT 1430: fragment from the middle of the folio,  $7.5 \times 12.8$ ;

SHT 4008: fragment from the middle of the folio,  $4.7 \times 4.5$ ;

SHT 4015: fragment from the middle of the folio,  $4.6 \times 4$ ;

SHT 4264: fragment from the middle of the folio,  $8.7 \times 5.4$ ;

SHT 4524, 4526b, 4591: numerous small fragments;

faded ruling; nordturkistanische Brāhmī, Typ b.

History: Finding location unknown.

Bibliography: vohd vol. x,6 (р. 132); vohd vol. x,7 (р. 297f. suppl.); vohd vol. x,10 (р. 243f., sht 4008+4015+4264, Fragm. 1);

<sup>40</sup> SHT 1430 was originally identified as a xylograph. Subsequently, it was identified as a manuscript. I believe the first identification is correct (thus, all other fragments should be classified as xylographs).

#### Volume 10

17. SHT 4352

Content: Sarvatathāgatoṣṇīṣasitātapatrā Nāma Aparājitā Mahāpratyaṅgirā

Mahāvidyārājñī

Physical description: 3 folios of an accordion book, total dimension  $29.3 \times 21.8$  (first folio  $9.6 \times 21.8$ , second folio  $10 \times 21.8$ , third folio  $9.7 \times 21.8$ ); südturkistanische Brāhmī (Alphabet v);

History: Finding location: Sängim; 2. Turfan expedition.

Bibliography: VOHD vol. X,10 (p. 390–91); Bhattacharya-Haesner et a. 2003: Nr. 94 (facsimile).

#### Volume 11

# 18. SHT 4442

Content: fragments of an unidentified text.

Physical description: pothī, various fragments:

folio 165: three fragments, one of the left side of a folio (16  $\times$  8.9), one from the middle (16  $\times$  9.8), and one from the right side;

fragment from the middle of a folio (15.5  $\times$  8.4);

fragment from the middle of a folio  $(6.5 \times 7.2)$ ;

fragment of the upper left corner of a folio  $(8 \times 7.9)$ ;

fragment of the upper margin of a folio  $(5.3 \times 15.6)$ ;

fragment from the middle of a folio (14  $\times$  14), including a decorated string-hole space; nordturkistanische Brāhmī, Typ b.

History: Finding location: Murtuq, site: (T III M 198); 3. Turfan expedition.

Bibliography: VOHD vol. X,11.

19. SHT 4465 V)

Content: a small fragment from the upper part of a xylograph, with the frame line on the verso and manuscript pen trials on the recto (four times ma and one time ya).

Physical description: small fragment,  $4.2 \times 7$ , nordturkistanische Brāhmī, Typ b.

History: Finding location: unknown.

Bibliography: VOHDX vol. X,11 (pp. 70-71).

# Appendix B. Manuscript and Lithograph of the Śūdrakamalākara Manuscript

The description of this item has been made on scans of a xerocopy of the original (!), and therefore lacks numerous codicological features. The scans are freely available at https://archive.org/details/Shudrakamalakara.

Pune, Anandashram Samstha; 124 folios; paper, *pothī* (height: 10 cm, width: 30 cm); Devanāgarī in black ink; foliation: top left margin (under marginal running title).

- Layout: 9–10 lines per page, double marginal frame lines.
- Marginalia: running marginal title ( $\sin ka^{\circ}$ ), top left margin, verso.
- First Rubric: [1v1] śrīgaņeśāya namaḥ || pāṃduraṃga ||
- Incipit: [1v1] praṇamya rāmaṃ pitarau kamalākaraśarmaṇā || rāmakṛṣṇatanūjena śūdra[1v2]dharmo nirūpyate || 1 ||
- Explicit: [123v9] yo bhāṭṭanam agahanārnavakarnadhā[124r1]raḥ śāstrāmtareṣu
  nikhileṣv api marmabhettā || yo aśramaḥ kila kṛtaḥ kamalākareṇa prīto [124r2]
  munāstu sukṛtī budharāmakṛṣṇaḥ || || ||
- Final rubric: [124r2] iti śrīma'jjaga'dgurumīmāmsakanārāyaṇabhaṭṭasu(!) [124r3]risūnurāmakṛṣṇabhaṭṭātmajakamalākarabhaṭṭakṛte śūdradharmatatve śūdrasamasaṃkarajasvarūpaṃ tadvṛ[124r4]ttinirūpaṇaṃ samāptaṃm、|| || samāpto yam graṃthaḥ || || śrīrāmāya namaḥ || ||
- Colophon: [12475] pūrva[mura.i]vastavyāraghuvaṃśasya pustikā || aparedyuḥ śucir bhūtvā pūjayec ca yathāvidhi || paṭṭe vā[12476]dārupaṭṭe(!) vakivale bhūtale pi vā || [[sa]] pūrvaṃ paṃktidvayaṃ kūryāt 4 godhūmaus taṃḍulaiḥ śubhaiḥ || prathamā dā[12477]śasargāṇāṃ [na]vānāṃ tv aparā bhavet,|| uttarāṃ diśam ārabhya dakṣiṇasyāṃ samāpayet,|| pūjayet tu kusā[12478]rītāṃ(!) yāṃ gaurīṃ yāṃ vivekināṃ || triṣu lokeṣu yat satyaṃ yat satyaṃ brahmavādiṣu || patin(!) natāsu(!) yat sa[12479]tyaṃ tat satyaṃ ta[-1-]mastake|| ciṃtitaṃ sakalaṃ kāryaṃ paripaśyasi śobhane || tad asmin,śakune brū[124v1]hi kumārī brahmarūpiṇī || prathamaḥ sarga ity ukto dvītī'yo'śakas tathā || tṛtīyaḥ śakunaḥ ślokaḥs taṃ [124v2] vicāryavicakṣaṇaḥ || statiliḍaḥ(?) varjitaḥ ślokaḥ || || || || [124v3] śake 1739 īśvaranāmasaṃvatsare caitravadyapratipadāṃ saumyavāsare idaṃ pustakaṃ kṛṣṇātīraṃsālīgrāmamadhye nirmitaṃ samāptaṃ || || || || [124v4] bhaṭṭopanāyakagoviṃdabhaṭṭātmajabā kena likhitaṃ || svārthaṃ parārthaṃ ca || pāṃduraṃgaprasan,|| || [124v5] yādṛśī (!) pustakaṃ dṛṣṭvā tādṛśī (!) likhitaṃ mayā || mūrkhahaste na dātavyaṃ(!) evaṃ vādati pustakam || śrīrāma ||

# Lithograph

- Physical Location: Cambridge University Library, classmark: 834: 1.a.85.44;
- 94 folios; paper,  $poth\bar{\iota}$  (height: 11.5 cm, width: 32 cm); foliation: top left margin (under marginal running title), and bottom right margin, verso.
- Devanāgarī in black ink. Tentatively three different hands can be distinguished: the scribe of folios 2r–38v wrote tall and slender *akṣaras* with 5 mm height, connecting all characters of a string by means of a continuous upper line, interrupted only by *daṇḍas*; the *akṣaras* written by the scribe of folios 37r–66v have an height of 4mm,

- and occasionally the connecting upper line is interrupted; finally, folios 67r–74v are written by a third scribe, with *akṣara*s having 4mm height, but unlike the ones of the first scribe, the ratio between *akṣara* height and width is more even, so that the characters give a more squarish impression.
- Layout: written area height 7.8 cm, width 26.3 cm; 10–11 lines per page; first hand: approximately 50 akṣaras per line (the variation between the different hands is difficult to assess); akṣara height: first hand 5 mm, second hand 4mm; interlinear space height: 3–4 mm. Pairs of double marginal frame lines. The recto of the first folio consists of a title page imitating wooden covers of manuscripts: on the recto, an illustration reproducing carved floral decorations, in the middle of which the rubric is printed in the following formula: atha śūdrakamalākaraprārambhaḥ; the verso contains a black and white illustration divided in four panels (depicted from left to right: the author of the treatise; figures representing the four varṇas in this order: brāhmaṇa, kṣatriya, vaiśya, and śūdra). The verso of the last folio is also an imitation of wooden covers: an illustration reproducing carved floral decorations, in the middle of which the final rubric is printed in the following formula: || iti śūdrakamalākaraḥ samāptaḥ ||.
- Binding: 19th-century binding. Leather cover with title (Śúdradharmatattwa), date (1861.) and decorative lines in golden letters on the spine; two flyleaves of European paper both at the beginning and the end. In the top left corner of the inside front cover, printed in small characters in black ink: "Bound by Wiseman", and underneath, "380, 1872." In the Cambridge University Library collections of Sanskrit manuscripts, many 19th century paper manuscripts in the *pothī* format have this type of binding by Wiseman.
- Marginalia: running marginal title ( $\delta \bar{u}^{\circ} ka^{\circ}$ ), top left margin, verso.
- First Rubric: [2v1] śrīgaṇeśāya namaḥ [blank space] atha prastāvanā. An introduction in Marathi giving the contents of the work follows.
- Second Rubric: [3v1] śrīganeśāya namaḥ ||
- Incipit: [3v1] praņamya rāmam pitarau kamalākaraśarmanā || rāmakṛṣṇatanūjena śūdradharmo nirūpyate || 1 ||
- Explicit: [94v2] yo bhāṭṭanam agahanārnavakarnadhāraḥ śāstrāmtareṣu nikhileṣv api marmakṣe[94v3]ttā yo aśramaḥ kila kṛtaḥ kamalākareṇa prīto munāstu sukṛtī budharāmakrsnah ||
- Final rubric: [94r3] iti śrīmajjagadgurumīmāṃsakanārāyaṇabhaṭṭasūrisūnurāma-[94r4]kṛṣṇabhaṭṭātmajakamalākarabhaṭṭakṛte śūdradharmatatve śūdrasamasaṃkarajasvarūpaṃ tadvṛttinirūpaṇaṃ samāptaś cāyaṃ nibandhaḥ || || śrīr astu || || [94r5] śubhaṃ bhavatu || || || || || || || || || || ||
- Colophon: [94r6] hem pustaka, vedaśāstrasampanna rājamānya gaņeśabāpūjīśāstrī mālavaņakara āņi rājaśrī kaulāsavāsī viṣņubāpūjīśāstrī vāpaṭayā [94r7] ubhayatāmnīm bhāgītem chāpalem ase. || śake 1783 durmatināmasamvatsare

|| mārgaśīrṣamāsi kṛṣṇapakṣe ravivāsare idam pustakam samāptam.|| || [94r8] trināgasapteṃdumite śake muṃbākhyapaṭṭaṇe || yatnataś ca gaṇeśena aṃkito yaṃ śilākṣaraiḥ || 1 || || cha || cha

# Appendix C. Incunabula of Bhāravi's Kirātārjunīya with Mallinātha's Commentary (Gaṇṭāpatha)

Published in 1814

Editors: Vidyākaramiśra and Bābū Rāma. Typesetter (printer?): Madanapāla. Published in Khidirapore (Calcutta) at the Sanskrit Press in 1814 (saṃskṛtayantre khidirapure śrīmadanapālenāṅkitam).

[All elements are centered] [Title Page]

- || kāvyanāma || \ || kirātārjjunīya || \ \ [ $puṣpik\bar{a}$ ] \ \ || kavināma || \ || bhāravi || \ \ [ $puṣpik\bar{a}$ ] \ \ ||
- țīkānāma || \ || gaṇṭāpatha || \ \ [ $puṣpik\bar{a}$ ] \ \ || ṭīkākāranāma || \ || mallinātha || \ \ [ $puṣpik\bar{a}$ ]

[flyleaf 1r, Imprint]

- $||\ 1||\ ||\ atra\ kāvye\ sargasaṃkhyā\ ||\ aṣṭādaśa\ 18\ ||\ [puṣpikā]\ ||\ atra\ kāvye\ mūlaślokasaṃkhyā\ ||\ ekapañcāśadadhikasahasraṃ\ 1052\ ||\ [puṣpikā]\ ||\ atrārjjunasya kāvyanāyakasya pāśupatāsvalābhaḥ\ phalam,\ ||\ 1\ ||\ [puṣpikā]\ [flyleaf\ 1v, Imprint]$
- || śāke vaḍagnisaptendusammite vatsare śubhe || \ || śāke 1736 || \ [separating line] \ || candrādrivasubhūmāne vikramādityavatsare || \ || saṃvat 1871 || \ [separating line] \ || bhūyugmadṛṣṭidharaṇīsaṃmite yavanābdake || \ || san 1221 sāla
- || \ [separating line] \ || vedabhūmivasucandramāsana.ī savīpramāna || \ || māhajūnakevā.isācchapyogranthaparadhāna || \ || san\_ 1814 īsavī | tāḥ 22 jūna || \ [puṣpikā]

[flyleaf 1r, Imprint] || 2 ||

[three ślokas] nagare kalikattākhye śrīmallāṭanṛpājñayā | śrī \ vidyākaramiśreṇa<sup>41</sup> bāburāmeṇa dhīmatā || 1 || \ sambhūya śodhayitvātha kāvyaṃ ṭīkāsamanvitam、 | mu \ drākṣareṇa yatnena nyāsitaṃ sudhiyām mude || 2 || \ vinā pariśramaṃ dhīrāḥ pāṭhayantu paṭhantu ca | tada \ rtham aṅkitañ caitat saṭīkaṅ kāvyam uttamam、 || 3 || \ [puṣpikā] \ || saṃskṛtayantre khidirapure śrīmadanapālenāṅkitam、 || \ [puṣpikā]

## Published in 1847

Editors: Tārānātha Tarkavācaspati (1812–1885) et al. (*tārānāthatarkkavācaspatibhaṭṭā-cāryyādivibudhavarair viśodhitam*)

The type for *dya* is horrible.

Published in Calcutta at the Sārasudhānidhi press (*kalikātārājadhānyāṃ* sārasudhānidhimudrāyantre, 1769 [śake = 1847 CE]

[Title Page]

[All elements are centered; all puṣpikās are different]

|| kirātārjjunīyam,|| \ [puṣpikā] \ || śrībhāravikṛtam,|| \ [puṣpikā] \ sādhāraṇa vidyāvṛddhyarthakasamājādhipatīpsitam, \ [puṣpikā] \ śrīmattārānāthatarkkavācaspatibhaṭṭācāryyādivibudhavarair viśodhitam, \ [puṣpikā] \ śrīmaddattavaṃśāvataṃsaśrīvāvūrasamayadattamahāśayānām ājňayā \ kalikātārājadhānyāṃ sārasudhānidhimudrāyantre \ mudritam abhūt, \ [puṣpikā] \ [stanza in the Śārdūlavikrīḍita meter] aṅgāṅgādriśaśāṅkasammitaśake43 kāvyaṃ kṛtir bhāraver \ yantre sārasudhānidhau sulalitaṃ ghaṇṭāpathālaṅkṛtam,|| \ tārānāthadharāmarādivibudhaiḥ śrīlaiḥ śramāc chodhitaṃ \ śrīmaddattakulāgraṇī rasamayādeśād abhūn mudritam,|| \ [puṣpikā] \ 1769

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The rendering of o in Devanāgarī is a good example of the combination of types: the sign for  $\bar{a}$  and for e are clearly combined to get a o, since there are blank spaces between the different elements.

<sup>43</sup> aṅga (6), aṅga (6), adri (7), śaśāṅka (1), i.e. 1766 = 1844 CE!

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