

The Date, Mapmakers, Origin, and Context of Kunyutu 坤舆图: A Preliminary **Study on The Newly Discovered Early 18th Century Chinese World Map**

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Introduction

The Bernese Kunyutu 坤舆图 A manuscript double-hemispherical world map in Chinese,

newly discovered in **Bern**, Switzerland in **2017**, now collected in **Zentralbibliothek Zürich**. Thanks to the introduction

of Mr. Markus Oehrli during the ICHC2019, the author learned about the information and began studying this important heritage in the history of the Sino-European mapping cultural exchange.

No direct information about the date or mapmaker. It was dated too late

by the Zentralbibliothek Zürich (1750 to 1800) and some previous studies (from 1750 to 1850 or the late 18th Century).



Figure 1: The Bernese *Kunyutu* Painted on **silk** and mounted on paper over linen.



Figure 2: Chinese Globe Palace Museum

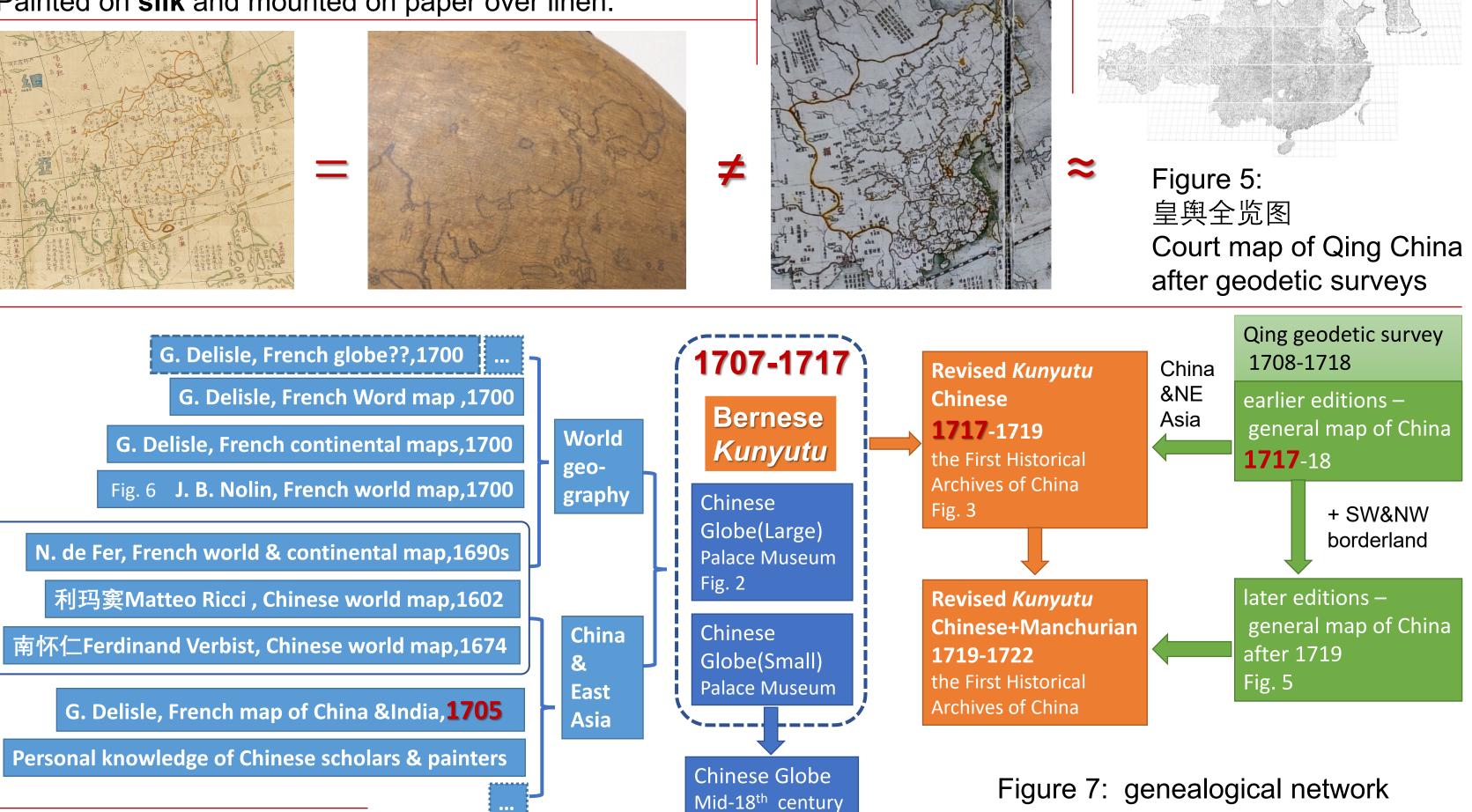
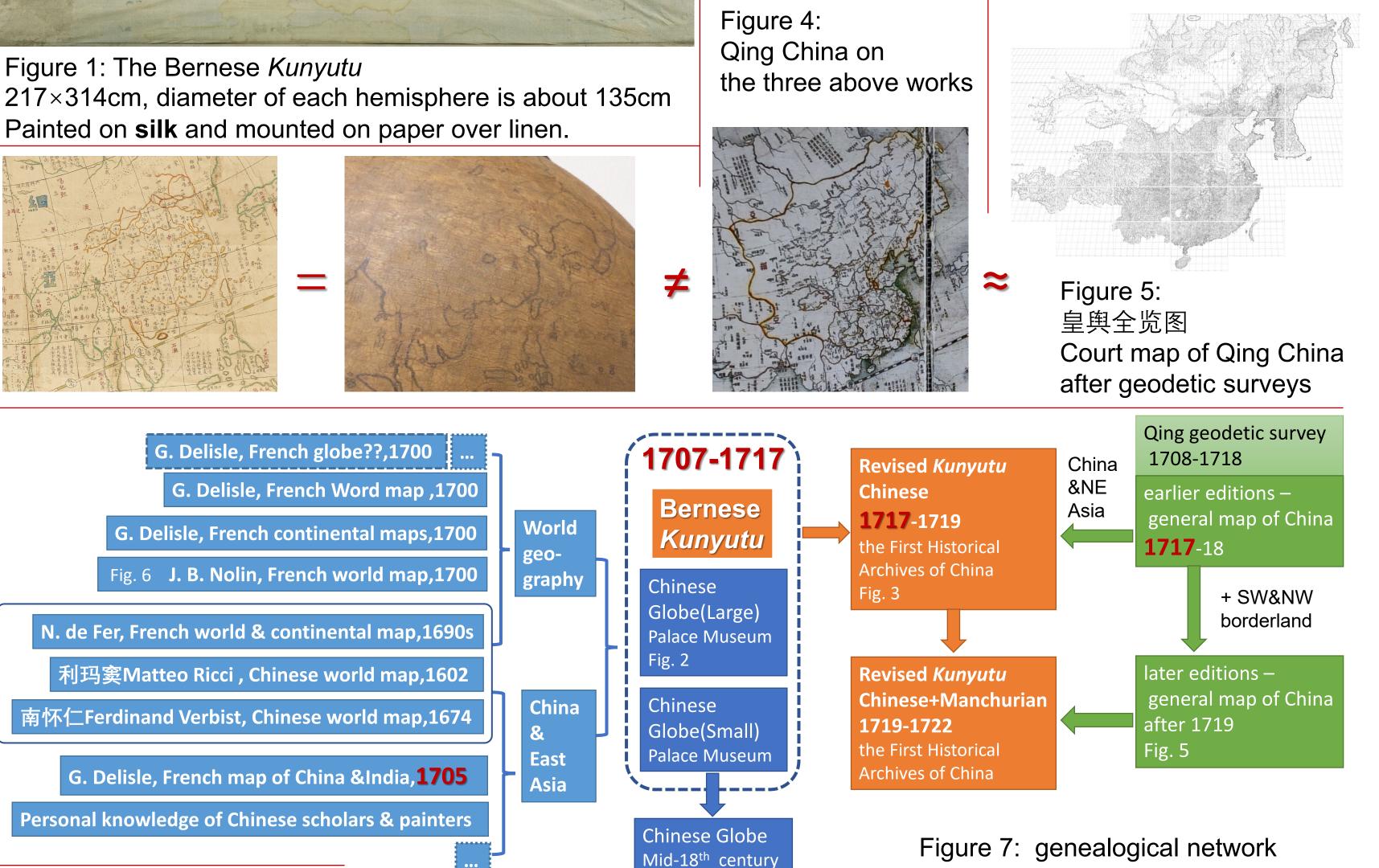




Figure 3: Revised *Kunyutu* (E. hemisphere) the First Historical Archives of China



Source materials for the mapmakers $\rightarrow \rightarrow \rightarrow$ chronological upper limits

The details in the toponyms and graphics reveal that the Bernese Kunyutu had largely referred to Guillaume Delisle's French world, continental and regional maps made during the first years of the 18th century, as well as derived maps such as Jean Baptiste Nolin's world map (1700). The reference to Delisle's Carte des Indes et la *Chine* (1705) shows that the **Bernese** *Kunyutu* should have been made **no earlier than 1707** (considering the journey between Paris and Beijing).

In a few places, the mapmaker also referred to Nicolas de Fer's maps brought by French Jesuits to Beijing during the turn of the 18th century.

Some elements referred to early world maps in **Chinese** by precedent Jesuit missionaries including Matteo Ricci (1602), Ferdinand Verbiest (1674).

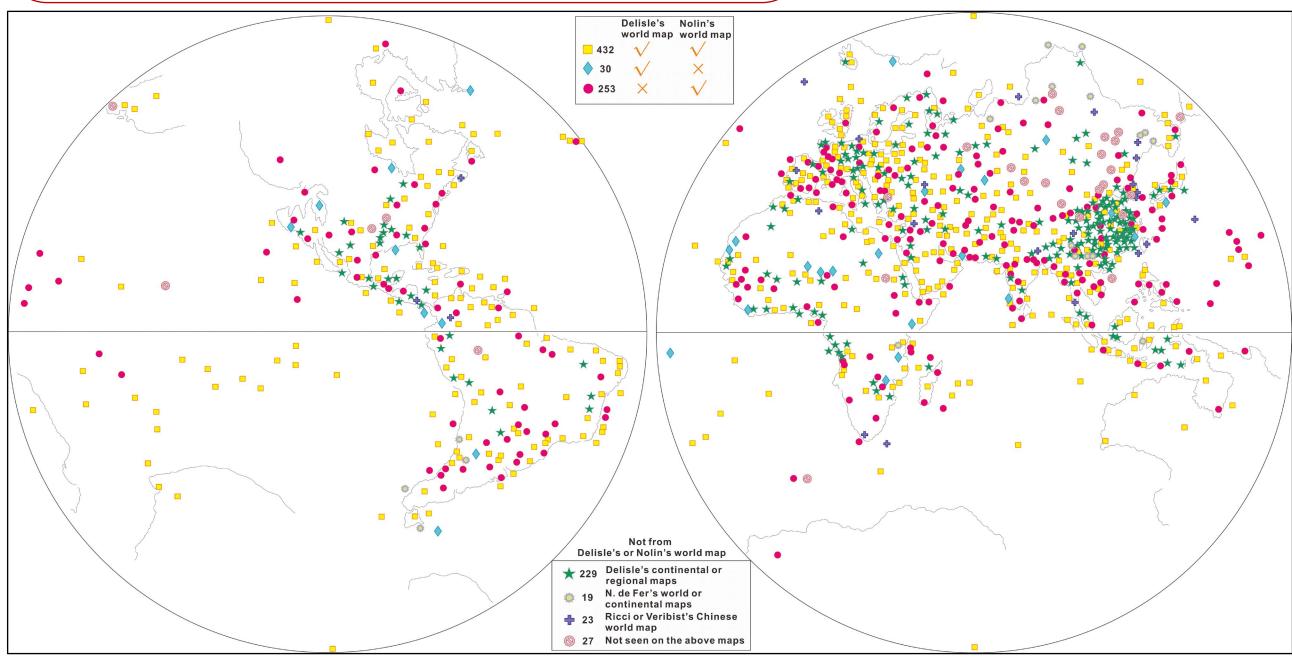


Figure 8:

origin of the 1012 toponyms on Bernese Kunyutu

Simultaneous or derived Chinese globes & world maps $\rightarrow \rightarrow \rightarrow$ chronological lower limits

The contents of the Bernese Kunyutu match the two Chinese globes now held in the Palace Museum (Beijing).

The three were made simultaneously on the basis of one lost draft map.

At the end of the Kangxi-period (1717-1722),

Bernese *Kunyutu* vs. earlier Jesuits' world geographical works

Conclusion

Main differences with earlier maps:

- China at east, rather than center
- Reduced Longitudinal span of Eurasia
 - from the innovative knowledge since J. D. Cassini, end of 17th Century
- Physical geographical features
- Portrayal of boundaries
- Selection and translation of most foreign toponyms

Some links with earlier works:

- Some toponyms
- Mapping of some local features
- Overall world figure is shifted 10° to the east relative to the source French maps influence by Verbist's map
- Among the 111 geographical block texts, most referred to Ricci, Giulio Aleni, Verbiest's works, with cutting, grafting and transforming, some were deliberately repositioned. (Fig.9)

two other revised world maps were made also named as Kunyutu, now held in the First Historical Archives of China (Beijing). The main modification: the figure of Qing China was changed according to the geodetic surveys directed by the Jesuits in China (1708-1718). In contrast to the Beijing editions, the date of **the Bernese map** should be **no later than 1717** when a **brand-new** map of China was finished in Qing Court after the geodetic surveys.(Fig. 4)

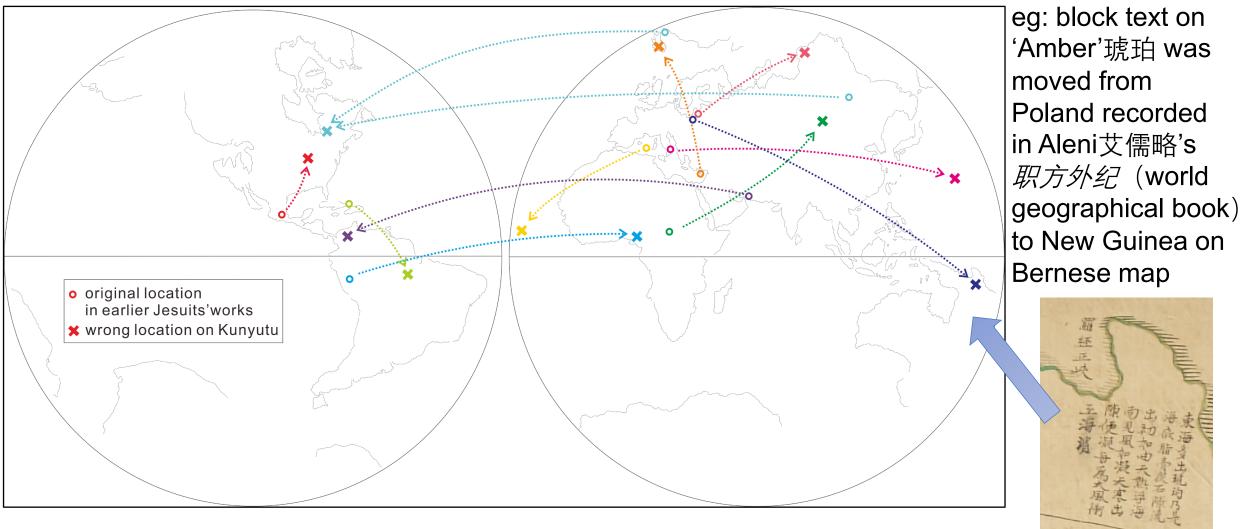
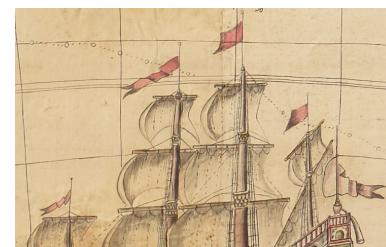


Figure 9: long range reposition of the block texts



During the late Kangxi-period, the French Jesuits in the Qing China Court introduced and translated the newest Delisle's and Nolin's French maps, while the Chinese official scholars were also deeply involved in the mapping process, possibly under the supervision of Ying Lu胤禄, the sixteenth prince of Emperor Kangxi康熙, and the Bernese Kunyutu was finally painted by less educated Qing court painters, resulting in some clerical errors.

The series of *Kunyutu* and globes, with many confusions and errors made intentionally or not by the cooperating map makers with complex identities, served mainly as decorative, display or ritual items in the Qing Court, to please the small



