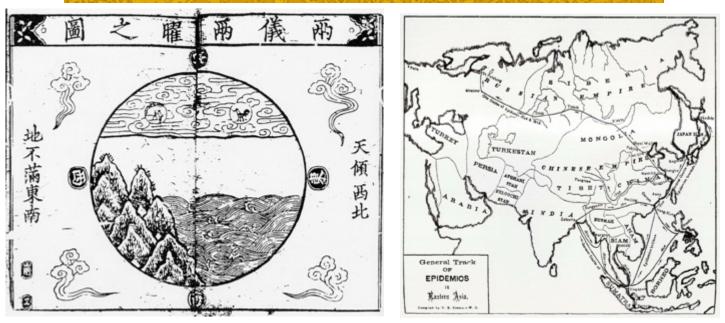
Visualizing the Geography of Disease: The Diseases of China, 1870s-1920s

Presented by Marta Hanson 韓嵩

Department of the History of Medicine, Johns Hopkins University



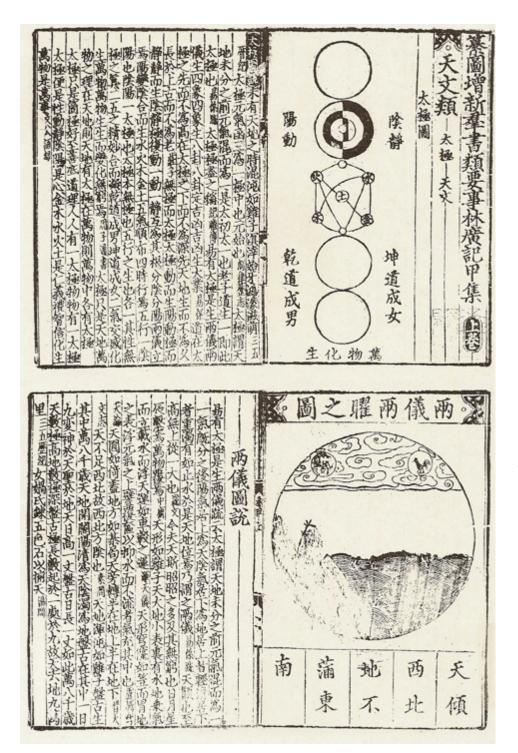
Ohio State University Center for Historical Research Program Health, Disease, and Environment in World History (20 April 2012)

Outline

- I The Chinese Geographic Imagination
- II European Mapping Precedents, 1792-1875
- III Initial Mapping of the Diseases of China, 1877-1903
- IV The Diseases of China, including Formosa

and Korea,1910

- V Maps of the Manchurian Plague epidemic, 1910-11
- VI The North Manchurian Plague Prevention Service Reports, 1918-1928
- Conclusion *The Diseases of China*, *including Formosa and Korea*, second edition 1928



Shilin guangji 事林廣記 Broad-ranging Record on Many Matters

by Chen Yuanjing 陳元靚 (1137–81)

Yuan dynasty (1278-1368)

Zhishun edition (r. 1330-1333)



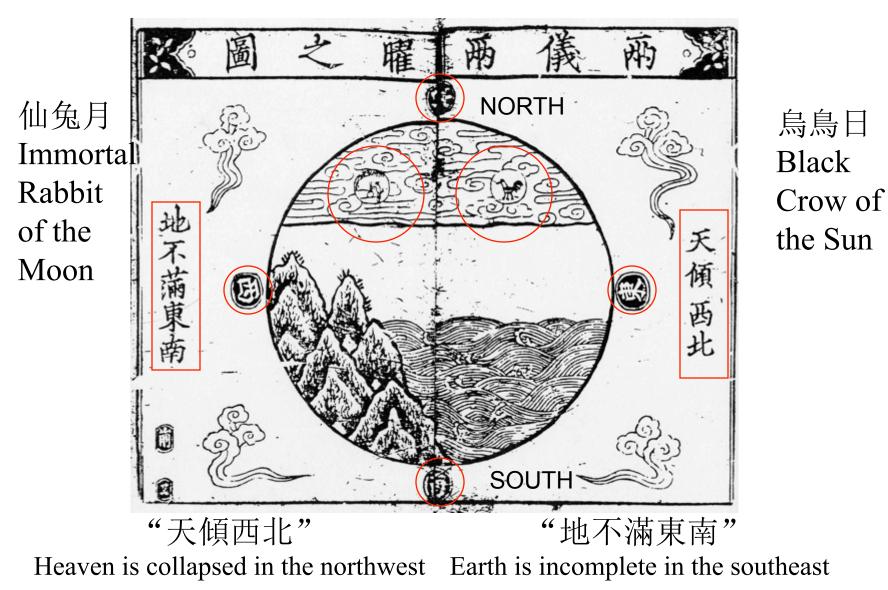
Shilin guangji 事林廣記 Broad-ranging Record on Many Matters

by Chen Yuanjing 陳元靚(1137-1181)

Ming dynasty (1368-1644)

1498 edition

Broad-ranging Record on Many Matters Ming dynasty, Wanli (r. 1488-1505) edition



圖掌指泉在天司

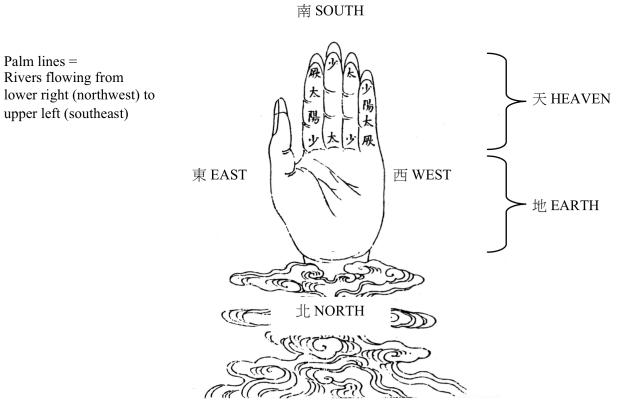


Figure 7 張介賓,《類經圖翼》 '指掌圖' 1782 四庫全書刻本。

Rivers flowing from lower right (northwest) to upper left (southeast)

新刻天如張先生精選石渠萬寶全書 Wanbao quanshu (10,000 Treasures), 1641 Bodleian Sinica 105



新鋟四民便用不求人萬斛明珠 10,000 Treasures, Xu Xinlu ed. 徐心魯, 1662 Bodleian Sinica 119





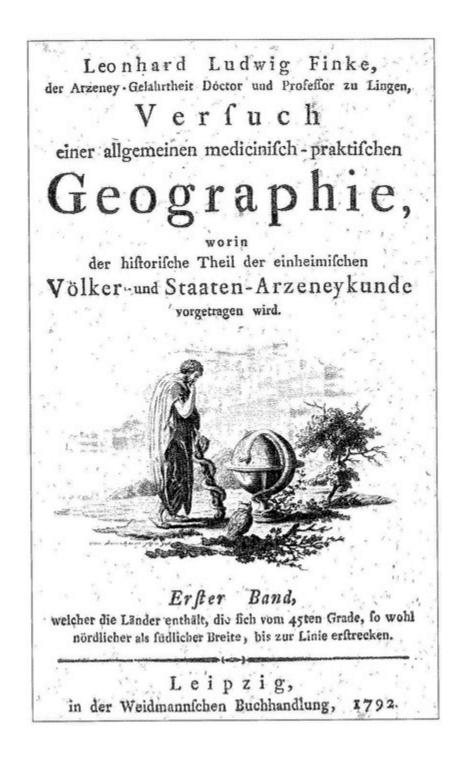
陳子性藏本 Chen Zixing's Collected Books, 1684

增补万宝全书 Zengbu Wanbao quanshu 10,000 Treasures, 1749 Cambridge East Asian Collection FC.31.183



European Mapping Precedents, 1792-1875

Part II



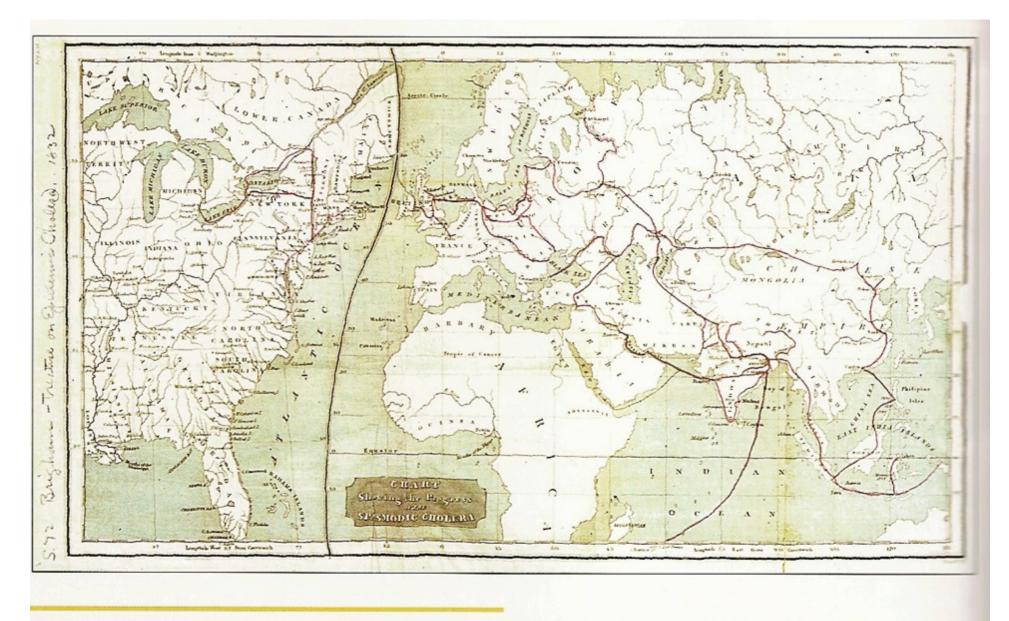


Figure 3.10a Brigham's world map of the progress of cholera in 1832. The hand-drawn line represents cholera's progress around the world, the lines closely following existing trade routes.

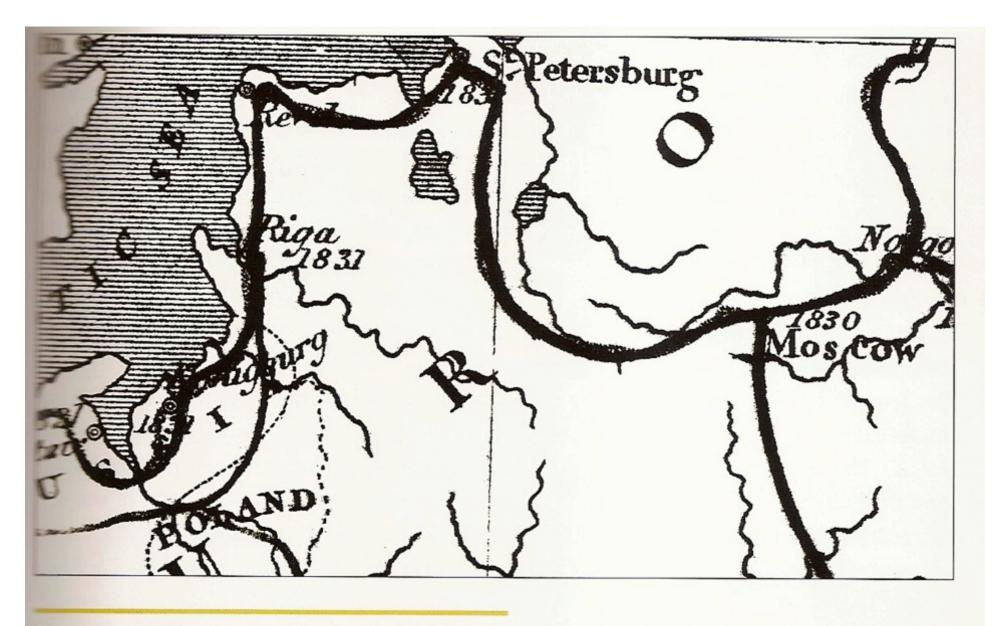
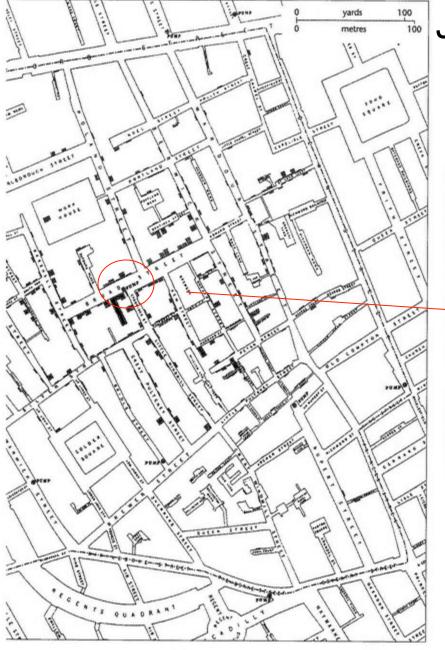
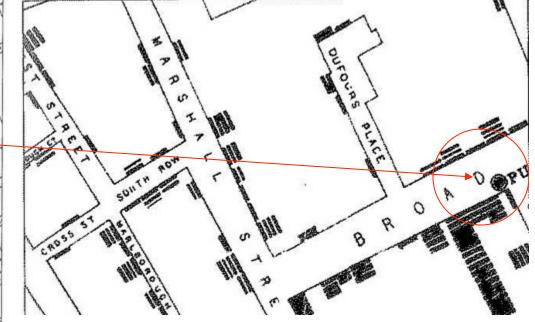


Figure 3.10b Black-and-white detail of Brigham's world map of the progress of cholera in 1832. The hand-drawn line represents cholera's progress with dates of outbreaks beside individual towns.



a Snow's map of the Broad Street outbreak, 1854, from On the Mode of ation of Cholera, Second Edition.

John Snow's 1854 Map of the Broad Street Outbreak of Cholera



Evidence for argument that the origin was the pump and the cause contaminated water

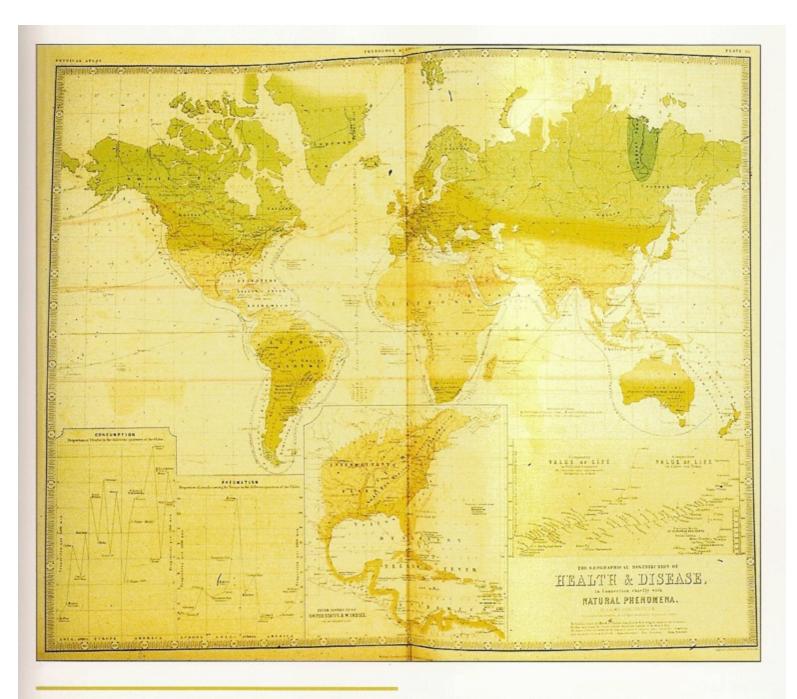


Figure 3.11a A. K. Johnston's map, *The Geographical Distribution of Health and Disease in Connection Chiefly with Natural Phenomena*, 1856.

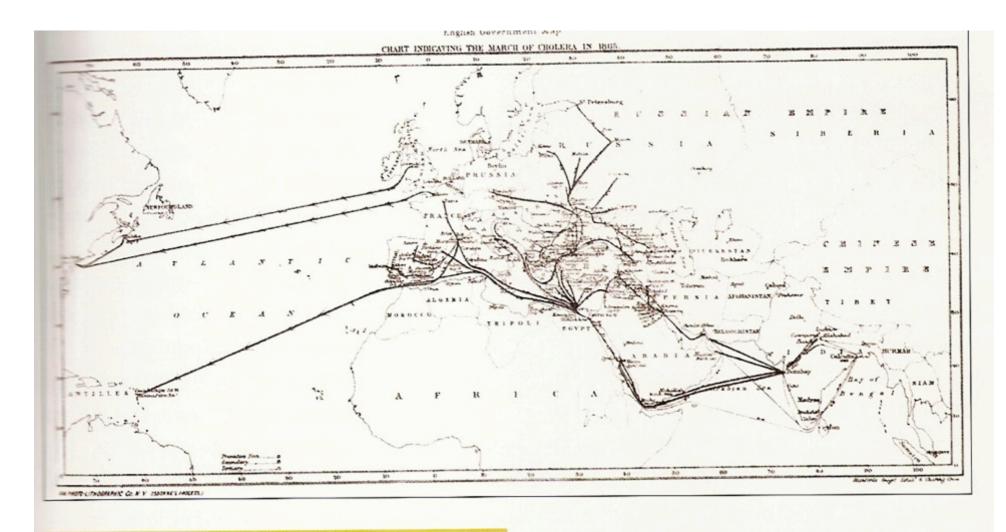


Figure 7.1 A British map of the international diffusion of cholera beginning in 1865 included in the U.S. Congressional report by J. M. Woodworth, 1875.

Source: Rare Books and Special Collections, University of British Columbia Library. Woodworth (1875).

Initial Mapping of the Diseases of China, 1878-1903

PART III

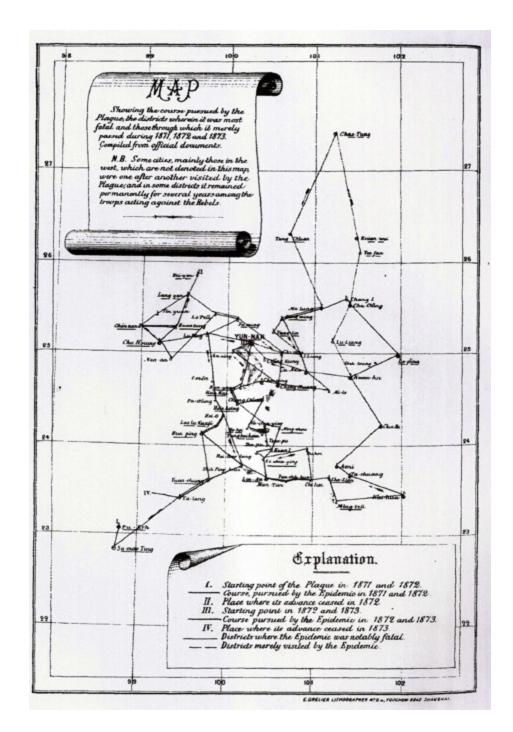
Maps from the Medical Reports of the Imperial Maritime Customs Service, 1878-1898

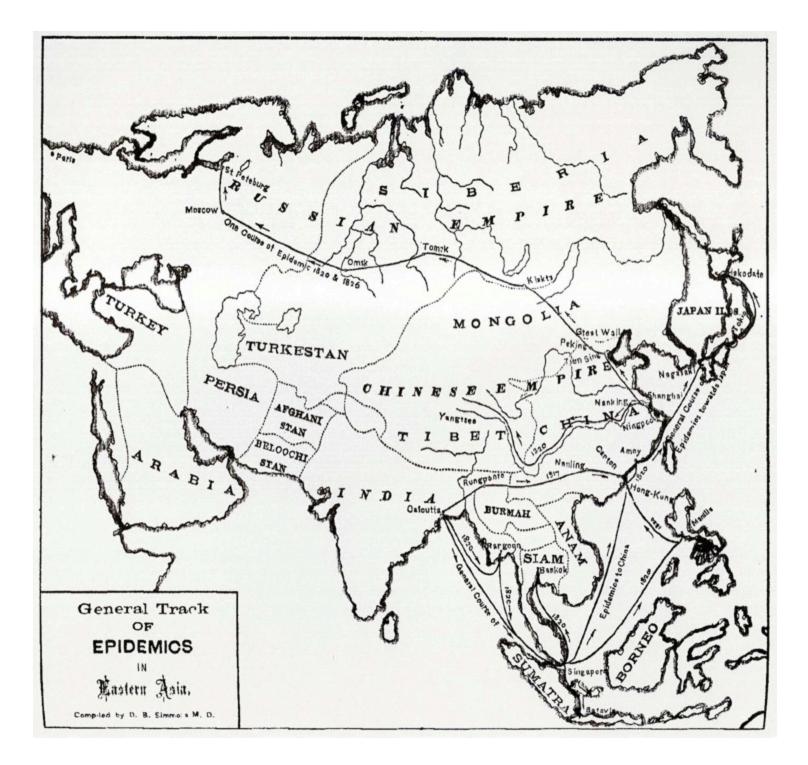
"Notes on the Plague in Yunnan"

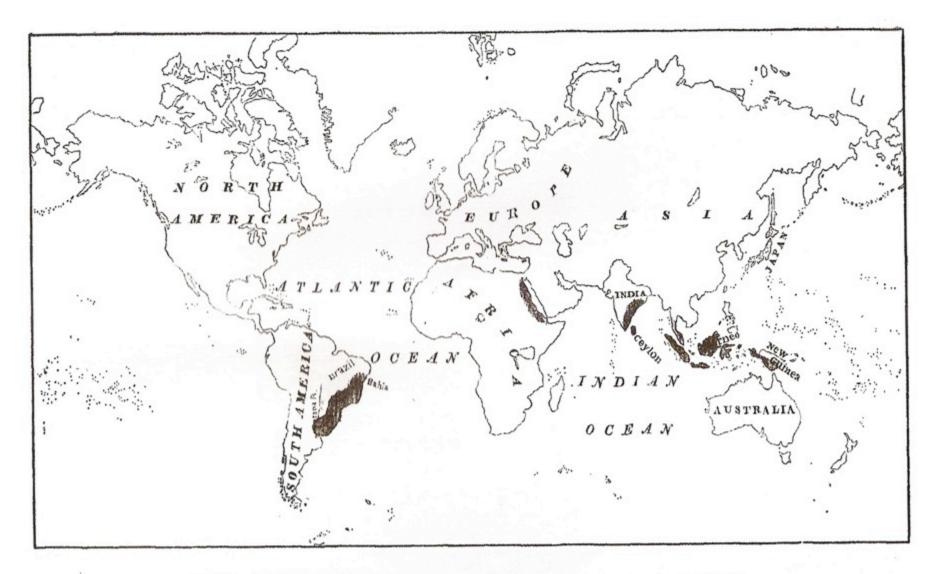
"Dr. Manson' s Report on the Health of Amoy for the Half-year ended 31st March 1878"

First map of the course of an epidemic in China

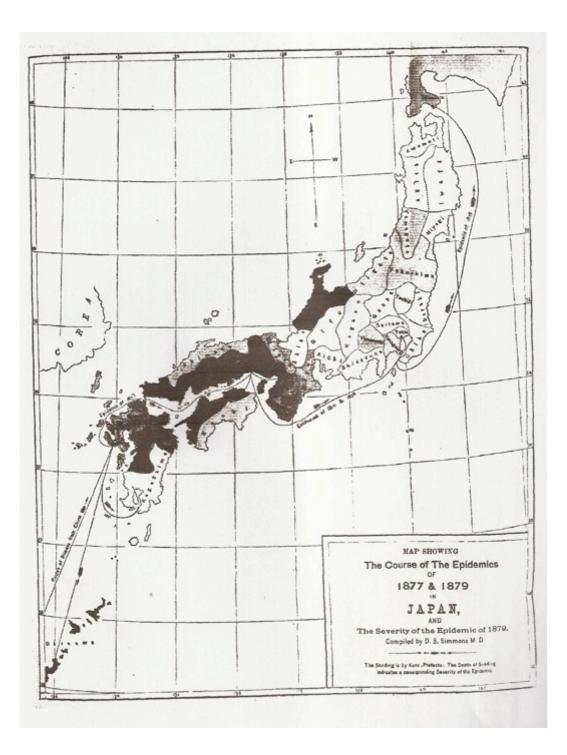
Maps the 1871-72 plague epidemics in Yunnan.

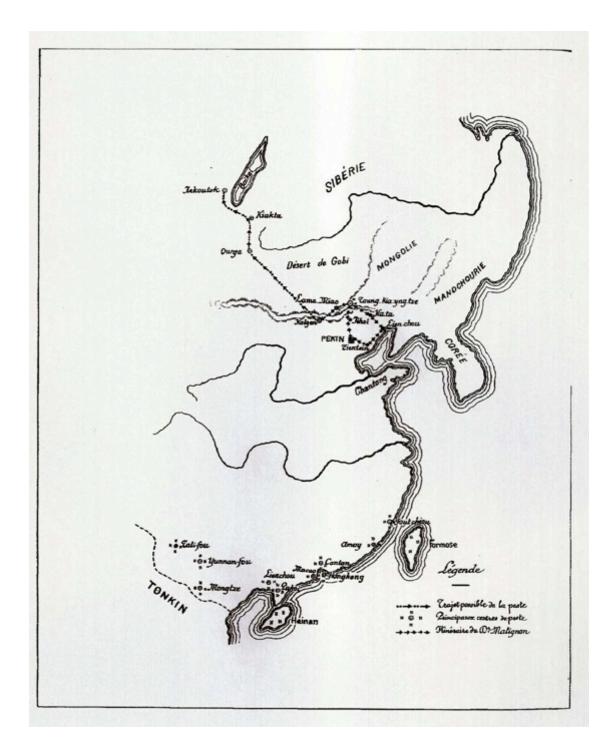


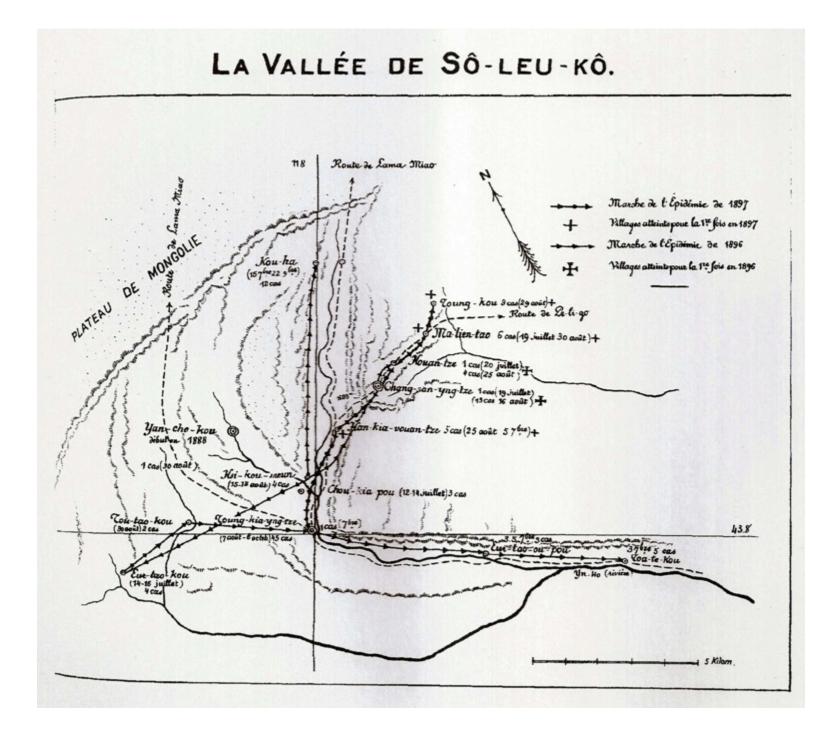




SKETCH MAP INDICATING THE GEOGRAPHICAL DISTRIBUTION OF BERIBERI.

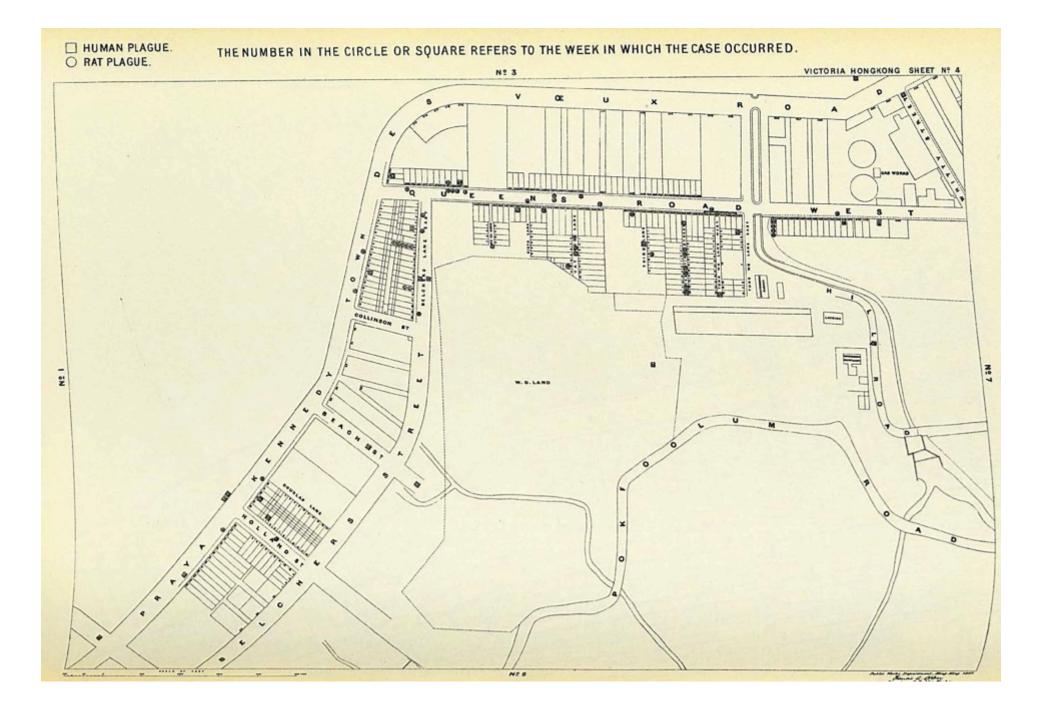






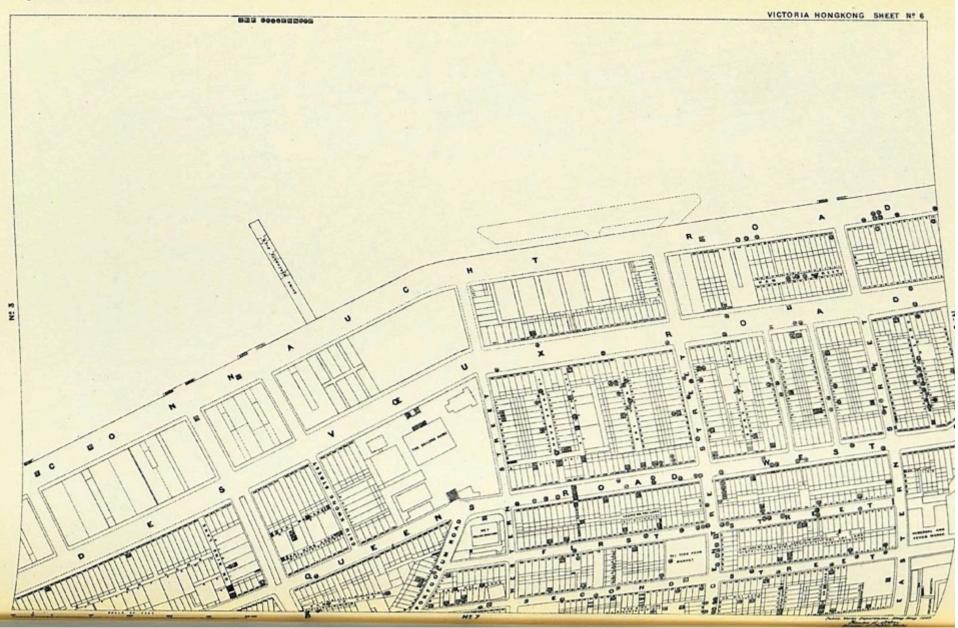
W.J. Simpson, *Report on the Causes and Continuance of Plague in Hong Kong and Suggestions as to Remedial Measures*

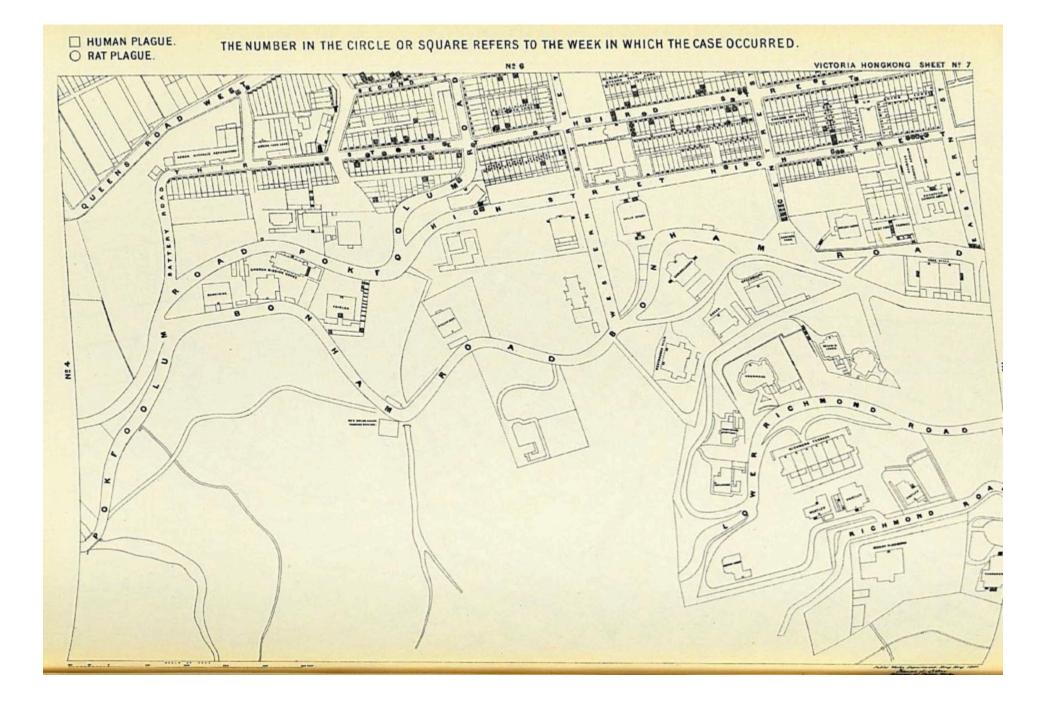
> London: Waterlow and Sons, 1903 Maps of the incidence of plague in Hong Kong 1894



HUMAN PLAGUE.

THE NUMBER IN THE CIRCLE OR SQUARE REFERS TO THE WEEK IN WHICH THE CASE OCCURRED.

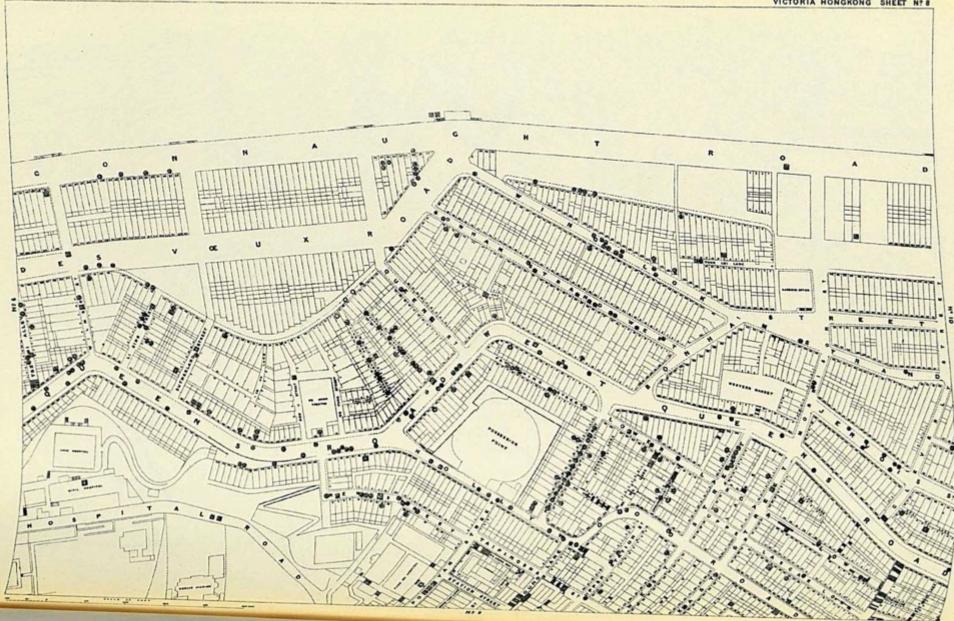




HUMAN PLAGUE. O RAT PLAGUE.

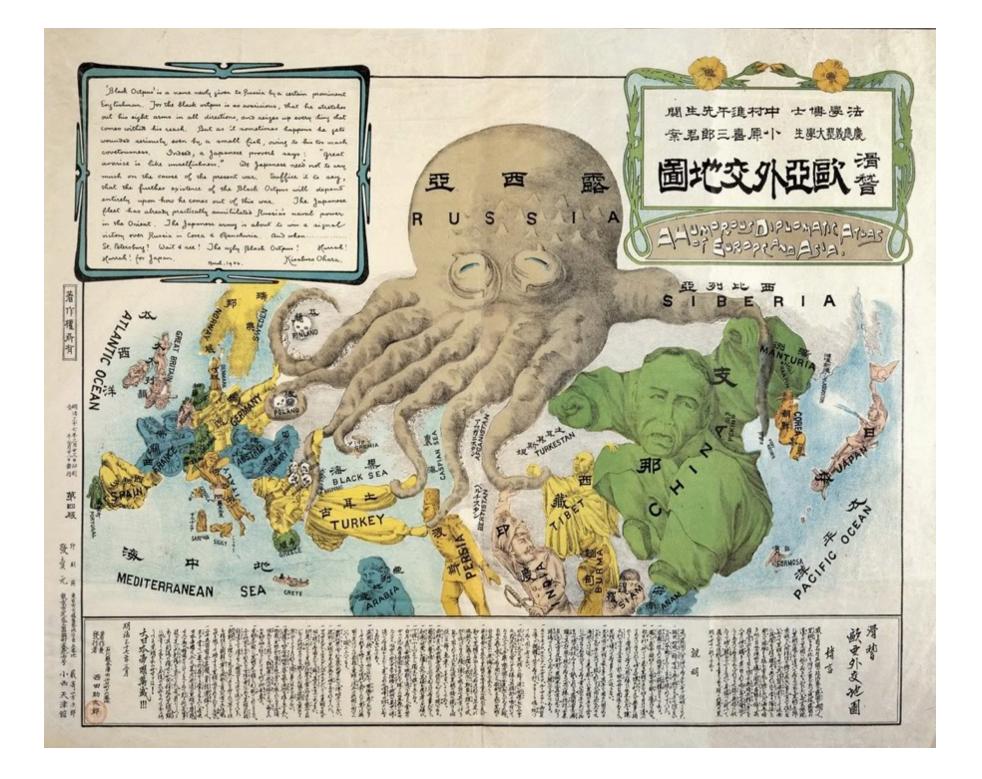
THE NUMBER IN THE CIRCLE OR SQUARE REFERS TO THE WEEK IN WHICH THE CASE OCCURRED.

VICTORIA HONGKONG SHEET NIS



A Humorous Diplomatic Atlas of Europe and Asia, 1904

By Kisaburo Ohara at the beginning of the Russo-Japanese War (1904-5)

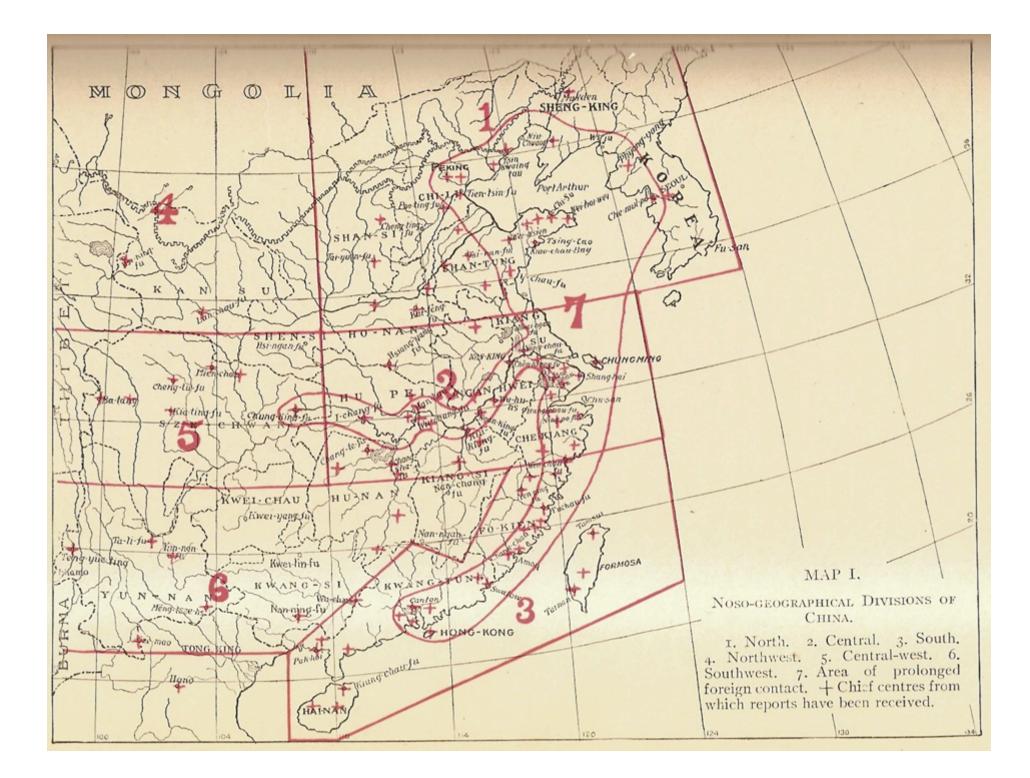


The Diseases of China, Including Formosa and Korea, 1910

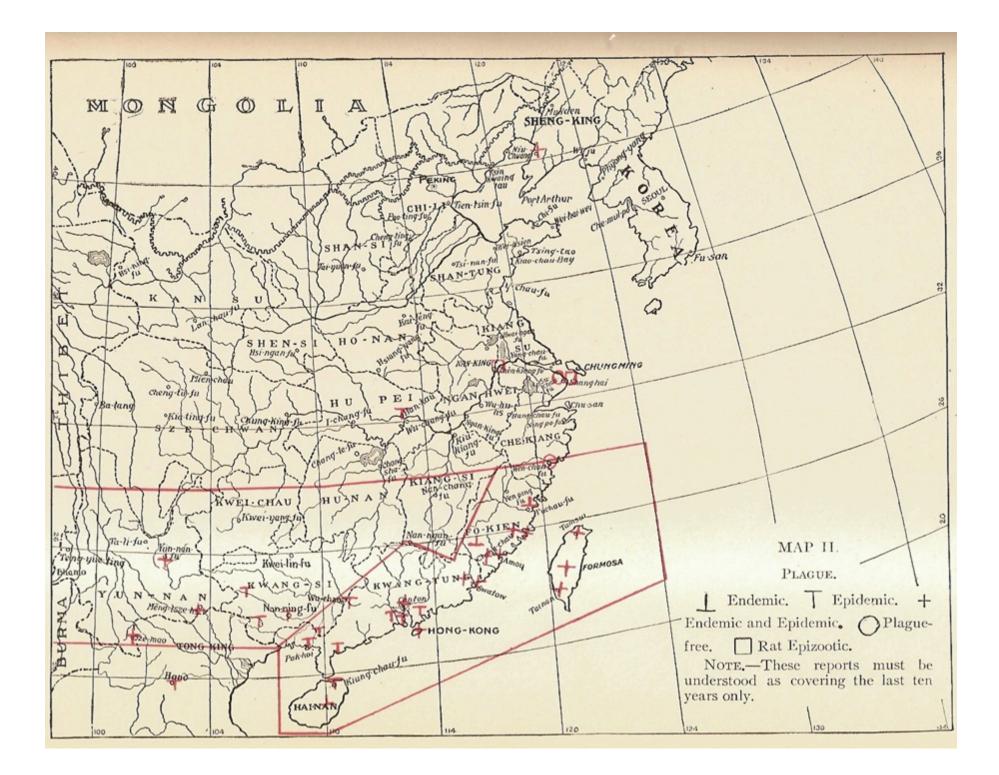
PART IV

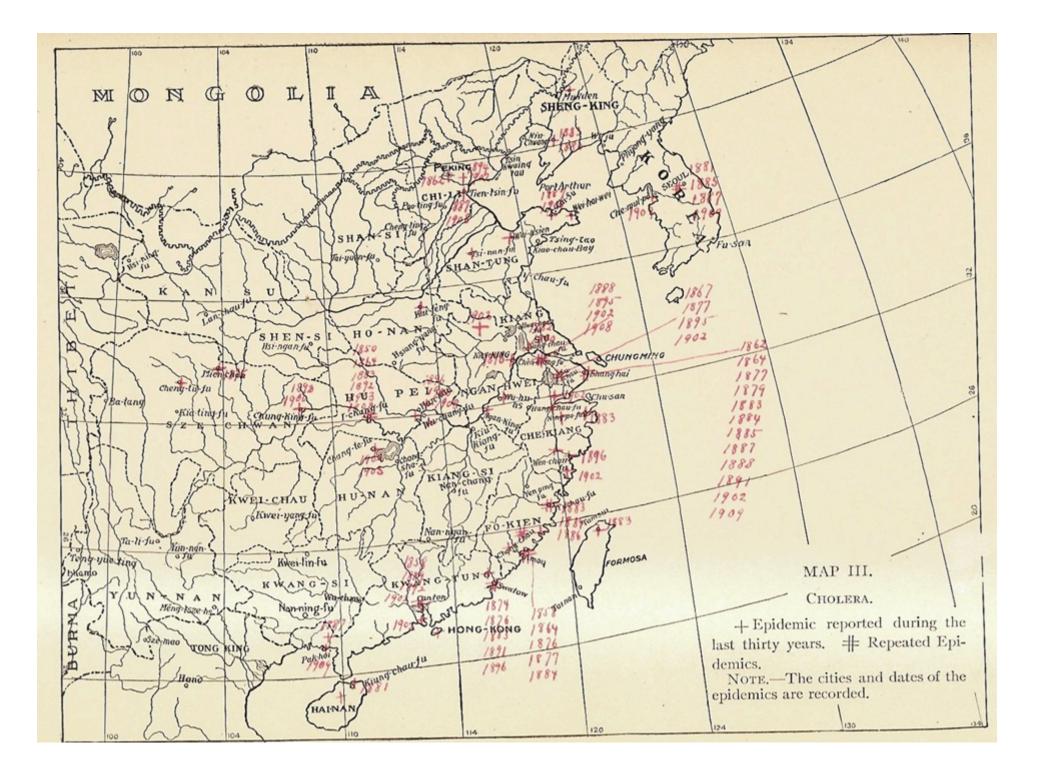
The Diseases of China, Including Formosa and Korea, 1910

By Drs. Hamilton W/ Jefferys and James L. Maxwell



It may be taken as a starting-point that, as in our past experience in other land, the distribution of disease in China will be largely governed by climatic conditions [bold lettering is original]; and if we add to this factor that of the influence of lines of travel, and especially of foreign contact with the formerly for centuries undisturbed China, we have named the two points which will have the most influence on any diagrammatic representation of the subject that we may attempt (Diseases of China, 1910 p. 30).





Map of the Manchurian Plague Epidemic, 1910-11 Russian Source PART V

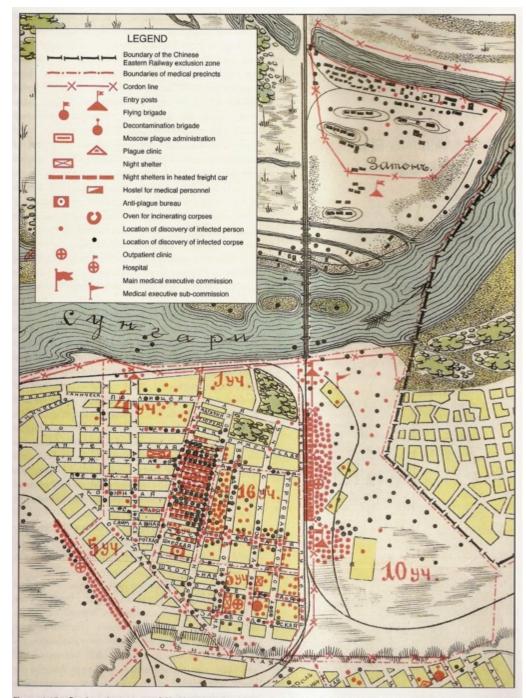
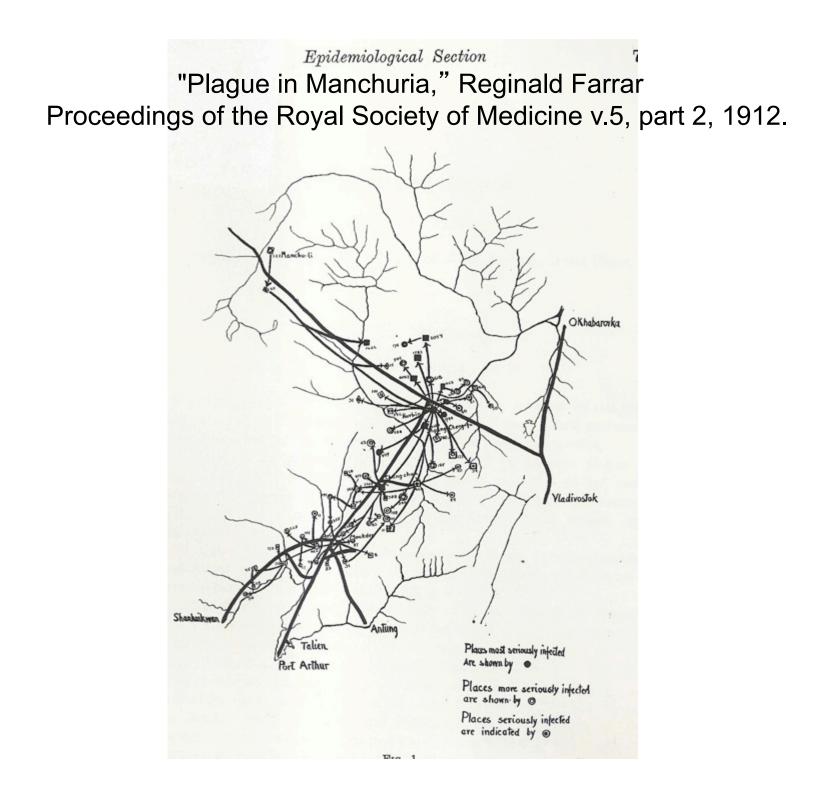
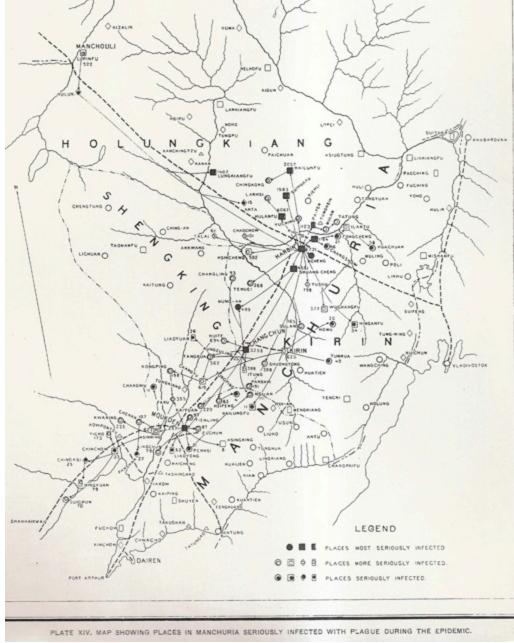


Figure 1.17 Russian plague map of Harbin. Location of cases and deaths from plague in the railway and port city of Harbin, Manchuria, 1911–12. Also mapped are the positions of various plague control facilities. Source: Khmara-Borshchevskii (1912).

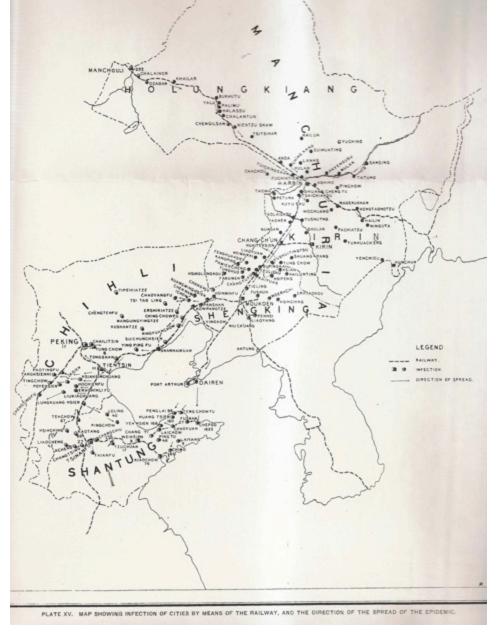
Map of the Manchurian Plague Epidemic, 1910-11 English Language Sources Part V



"Report of the International Plague Conference Held at Mukden, April 1911" Manila, Bureau of Printing, 1912. R.P. Strong, Editor. Plate XIV



"Report of the International Plague Conference Held at Mukden, April 1911" Manila, Bureau of Printing, 1912. R.P. Strong, Editor. Plate XV

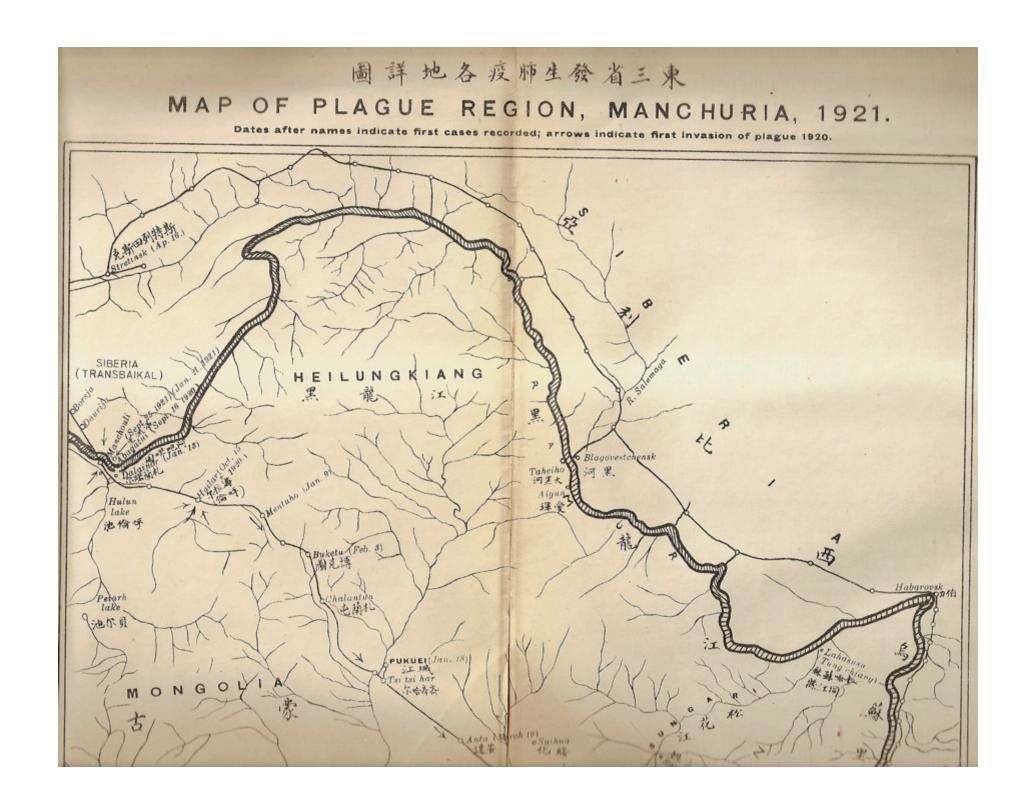


Wu Lien-teh 伍连德 (1879-1960) Penang, Malayan-Chinese

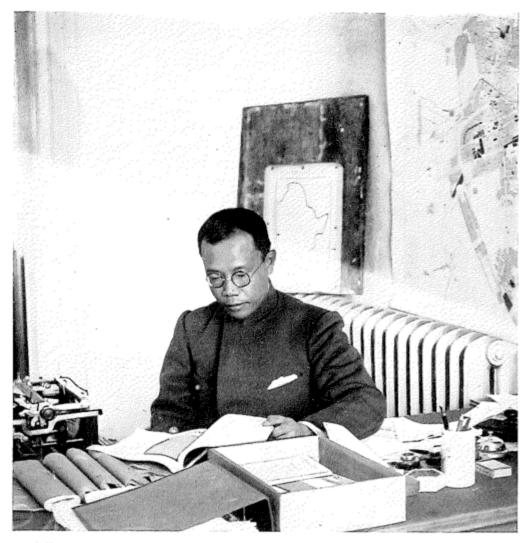


Maps from the North Manchurian Plague Prevention Service Reports, 1918-1928

PART VI



Plague Fighter: The Autobiography of a Modern Chinese Physician (1959)



Office in the New Laboratory, Harbin completed in 1920, with steam-heating and running water supplied from artesian well. Working under such conditions during both winter and summer was much pleasanter.



圖明說域區疫鼠有固

MAP TO ILLUSTRATE ENDEMIC PLAGUE AREAS.

7a 7b Q 100 10b, 10a 5 1b 11a 0 11 11b In •5 Mecca 20 0 2b

GUIDE TO MAP.

- 1a. Benghazi, Tripolitania
- 1b. Morocco
- 2a, Victoria Nyanza
- 2b. Mauritius and Reunion
- 3. Assyr
- 4. Khurdistan
- 5. Kumaon and Gurwhal
- 6. Yunnan
- 7a. Transbaikalia
- 7h. Outer Mongolia
- 8. Inner Mongolia
- 9. Thibet
- 10a. Chinese Turkestan
- 10b. Semiretchinsk
- 10c. Russian Turkestan
- 11. Persia
- 11a. Khorassan.
- 11b. Seistan.
- 12. Astrakhan.

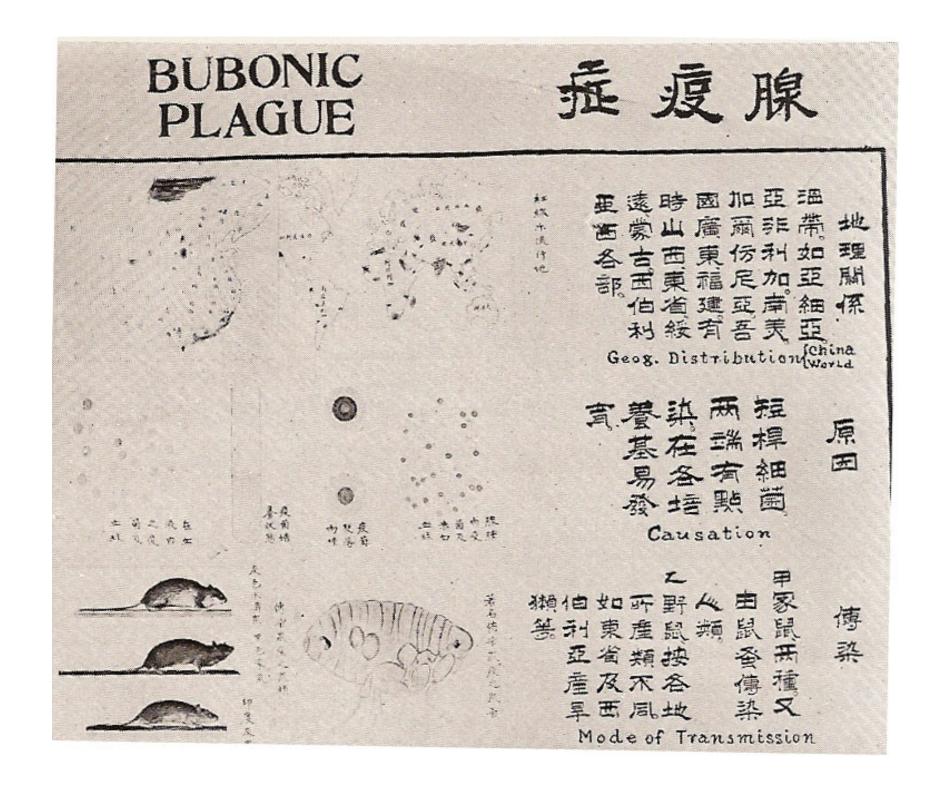
Plague: A Manual for Medical and Public Health Workers, 1936

By Wu Lien-teh, J. W. H. Chun, R. Pollitzer, and C. Y. Wu Weishengshu, Shanghai Station: National Quarantine Service



and (b) China; 2. causation; 3. mode of transmission; 4. signs and symptoms; 5. preventive measures (inoculation, rat-proofing, etc.); 6. treatment.

腺疫 宣 傳 圖 解 PLAGUE N. Q. S., Shanghai



Earliest example of mapping disease in China in Chinese and intended for ordinary Chinese

红线示流行地 更遠時國加亞溫 富蒙山廣爾非帶 各古西東仿科如 理 伯省 == 利綏有吾美 Geog. Distributi China The World

Propaganda poster of bubonic plague 腺疫宣傳圖解 Xianyi xuanchuan tujie

Detail of the Geographical distribution in a) the world and b) China



PNEUMONIC PLAGUE

游如形将 狮平

China

後内時度第一日

行度時軍九二曾終區局 4. 及在在一五入門 項 為加山七年一五入門 項 建頭面軍在九門東多 開 等份款至果一非省在 她是還一省感利俄旗 注明有八一至加國夏

症 痕 肺

Geog. Distribution [World

The World

11. 早場

行啸保省由度但與 御存軍咬者優嚴原 中庭擬傳承入度 或整築合門周 流時軍更意興周

Causation

Earliest example of mapping disease in China in Chinese and intended for ordinary Chinese

行度時軍及二當錢區局 及在在一一於及越部 地 福加山七年一西又例 建 随面軍在九門東多 所 發行該至果一非省在係 她尼漢一省 感利 微腺 流印有八一至加國爽 Geog. Distribution China The World China

Propaganda poster of pneumonic plague 肺疫宣傳圖解 Feiyi xuanchuan tujie

Detail of the Geographical distribution in a) the world and b) China

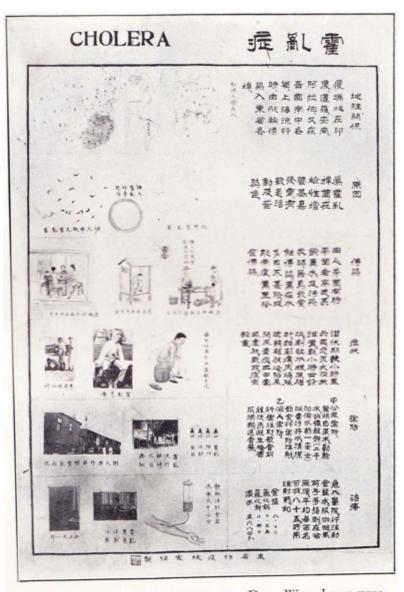


Fig. 13. Poster designed by Dr. Wu Lien-teh, Director of the Manchurian Plague Prevention Service (Harbin, 1928). There are 6 series of pictures showing from above downwards: distribution, cause, mode of spread, symptoms, prophylaxis and treatment.

伍連德博士所製之貼紙

