Section E

SCIENCE AND TECHNOLOGY
Maps

There is no shortage of maps on Mongolia in any Western language. Virtually every map of China also includes most or all of Mongolia. It would serve no good purpose to list all such maps but one should point out a few of the very best. For general purposes, any map published by the National Geographic Society can be used with confidence. The following maps are also recommended because they are based on the best available technical devices and are kept up-to-date. The main drawback of the CIA maps is that they only cover the Chinese-held portions of Mongolia.

2713 *China: Provisional Atlas of Administrative Units.* 1959. 52 pp. Administrative features only. Scale 1:5,000,000.

2714 *Communist China Map Folio.* 1967. Scale 1:4,500,000.

2715 *Communist China: Provincial Maps.* 1970. Administrative features only. Scale 1:12,000,000.

2716 *People's Republic of China Atlas.* 1971. 82 pp. Scale 1:4,000,000.

2717 U.S. National Ocean Survey. *Operational Navigation Charts.* Washington, D.C., various dates. For the best small-scale (1:1,000,000) maps on all parts of Mongolia, see charts ONC E7-9 and P6-9. Also see Jet Navigational Charts (scale 1:2,000,000) 12, 24 and 25.


*Chart of Mongolia for Schools with Notes on the Geography and History of the Country.* Wakefield, Yorkshire: E. P. Group of Companies, 1974. (UNESCO Program to promote education for international understanding. [Not seen.])


Rémusat, Jean-Pierre Abel. "Recherches sur la ville de Kara-Koroum, avec des éclairissements sur plusieurs points obscurs de la géographie de la Tartarie dans le moyen âge," *Mémoires de l'Institut de France* 7 (1824), 234-291, 1 folding map. Studies on the city of Karakorum with elucidations of several obscure points of the geography of medieval Mongolia.

Bretschneider, E. "Notices of the medieval geography of Central and Western Asia, drawn from Chinese and Mongol writings and compared with the observations of Western authors in the Middle Ages," *Journal of the North China Branch* 10 (1876), 75-307. Uses Chinese characters.


Herrmann, Albert. "Die Gobi im Zeitalter der Hunnenherrschaft," in
Hyllningsskrift (1935), 130-144. The Gobi during the time of the Hsiung-nu.

2732 Mullie, Joseph. "Tch'eng-yao-lou, relation de voyage de Lou Tchen," in Hyllningsskrift (1935), 413-433, 7 figs. Partial translation of the Ch'eng-yao-lu 路振, published in 1008, who, while serving as ambassador to the Khitan, visited Jehol, Southeastern Mongolia and Western Manchuria.


2735 Serruys, Henry. "The location of T'a-t'an, 'Plain of the Tower,'" Harvard Journal of Asiatic Studies 19 (1956), 52-66. He thinks it was located in the Ninghsia area of the Ordos region.


See also entries 1338, 1576, 1642, 1650, 1651, 1666, and 1670.

Regional Studies


2742 India. Survey of India, Department. Trigonometrical Branch. Report on the Explorations in Great Tibet and Mongolia, made by A-k in 1879-82, in Connection with the Trigonometrical Branch, Survey of India, prepared by J. B. N. Hennessey. Dehra Dun, 1891. 121 pp., tables, 1 folding
maps. The Mongol portion is quite small and only covers the Mongol areas of Tsaidam.


2750 Verbrugge, R. "Si-wan-ze (Mongolie)," Bulletin de la Société Belge des Études Coloniales (1912), 759-772. [Not seen.]

2751 Verbrugge, R. "Les confins sino-mongols (géographie et ethnographie)," Bulletin de la Société Belge d'Études Coloniales 20 (1913), 1-51, 176-216, photos. About the Great Wall, history, geography, administration and ethnography of the border area.


2753 Kérangat, Capitaine de. "À travers le désert de Gobi (mars 1920)," La Geographie 36 (1921), 340-349. Across the Gobi. [Not seen.]


2756 Verbrugge, R. "Chen-dzou-ze-leang à ses débuts (pays de colonisation au nord de Kalgan)," Bulletin de la Société Belge d'Études Coloniales 29 (1922), 1-21. [Not seen.]


Haude, W. "Grenzen verschiedener Trockenklimate in Zentralasien," in
Chapter 23

Hyllningskrift (1935), 112-129, 9 figs. This survey of arid zones includes the Gobi region of Southern Mongolia.


2777 Dann, I. "Das Sandgebirge Badang dschering (Mongolei)," Geographischer Anzeiger 42 (1942), 215-218. [Not seen.]


2780 Wiens, Herold J. "Geographical limitations to food production in the


See also entries 132, 1194, 2043, 2047, 2057, 2070, 2143, 2206, 2254, 2373, 2375, 2655, 2659, 2674, and 2823.
Miscellaneous Works


Chapter 30

GEOLOGY

2795 Pumpelly, Raphael. Geological Researches in China, Mongolia, and Japan During the Years 1862-1865. Washington: Smithsonian Institute, 1866. vii, 161 pp., plates. (Smithsonian Contributions to Knowledge, v. 15.) The first modern geological work published in a West European language covering mostly China and Japan. The Mongol portions are based on field research in 1863 and 1864 in Northern Shansi and Chihli.


2807 Berkey, Charles P. "Geology and prehistoric archaeology of the Gobi desert," American Museum Novitates, no. 222 (1926), 1-9, 4 figs. Part on prehistoric archeology, written by N. C. Nelson, is listed as entry 1460.


2811 Berkey, Charles P. and F. K. Morris. Geology of Mongolia: A Reconnaissance Report Based on the Investigations of the Years 1922-1923. New York: American Museum of Natural History, 1927. xxxi, 475 pp., 161 illus., 44 plates, 6 maps in pocket. (Natural History of Central Asia, v. 2.) Written by members of the American Central Asiatic Expedition, this is the most comprehensive work on the subject.


2818 Bain, George W. "Mongolian magmas," *Bulletin of the Geological Society of America* 46 (1935), 1745-1813, illus. Descriptive petrology (e.g., lavas, Jurassic series, and Mongolian bathylith group) and chemical petrology (e.g., constituents of Mongolian rocks and analyses of igneous rocks).


2820 Hausen, H. "Geological outlines of Uriankhai or the Tannu-Tuva Republic," in *Hyllningskrift* (1935), 326-343, 14 illus., 2 plates, 1 folding map.


2825 Hörner, Nils G. *Some Notes and Data Concerning Dunes and Sand Drift in the Gobi Desert*. Stockholm, 1957. 40 pp., 5 plates, maps. (*Sino-Swedish Expedition, Publication no. 40, section III: Geology, v. 5.*)


See also entries 2288, 2763, 2771, and 2772.
Chapter 31

MEDICINE

2828 Aberle, David. "'Arctic hysteria' and latah in Mongolia," *Transactions of the New York Academy of Science*, ser. 2, 14:7 (1952), 291-297. Discusses mental abnormalities in a person including symptoms of imitating others, completing actions (including those that hurt and kill him) initiated by his tormentor, and startle (or jump) reactions. Based on information by John Hangin, Peter Onon, and the Dilowa Gegen Hutukhtu at Johns Hopkins University.

2829 Unkrig, W. A. "Kosmetik in Tibet und der Mongolei (ein Ausflug ins Reich asiatischer Drogen)," *Oriens* 7 (1954), 265-289, illus.


See also entries 2070, 2206, 2425, 2476, 2587, and 2595.
Chapter 32

NATURAL HISTORY


2842 Osborn, Henry F. "The extinct giant rhinoceros Baluchitherium of Western and Central Asia," Natural History 23 (1923), 208-228.

2843 Osborn, Henry F. "Titanotheres and lophiodonts in Mongolia," American Museum Novitates, no. 91 (1923), 5 pp., 2 figs.

2844 Osborn, Henry F. "Two Lower Cretaceous dinosaurs of Mongolia," American Museum Novitates, no. 95 (1923), 10 pp., 5 figs.


2847 Matthew, W. D. and Walter Granger. "New insectivores and ruminants from
the Tertiary of Mongolia, with remarks on the correlation," *American Museum Novitates*, no. 105 (1924), 7 pp., 3 figs.


Chapter 32


2872 Roberts, L. B. "Two Mongolian folk songs," *Natural History* 27 (1927), 489-492, illus. About folk songs relating to pre-historic animals, some of which were excavated by the American Museum of Natural History's Central Asiatic expeditions.

2873 Boule, M. et al. *Le paléolithique de la Chine.* Paris, 1928. viii, 138 pp., 30 pl., 52 figs. (Archives de l'Institut de Paléontologie Humaine, mémoire 4.) On discoveries made in the Ordos in 1923. Articles on stratigraphy by Teilhard de Chardin and E. Licent (pp. 1-26), on paleontology by Marcellin Boule and Teilhard de Chardin (pp. 27-102), and on archeology by H. Breuil (pp. 103-136).


Gilmore, Charles W. "Two new dinosaurian reptiles from Mongolia with notes on some fragmentary specimens," American Museum Novitates, no. 679 (1933), 20 pp., 12 figs.


Osborn, Henry F. "Amynodon mongoliensis from the Upper Eocene of Mongolia," American Museum Novitates, no. 859 (1936), 9 pp., 6 figs.


Colbert, E. H. "The hyoid bones in Protoceratops and in Psittacosaurus,"
280

American Museum Novitates, no. 1301 (1945), 10 pp., 6 figs.

2918 Egami, N. "The k'uai-t'i, the tao-yu and the tan-hsi, the strange domestic animals of the Hsiung-nu," Memoirs of the Research Department 13 (1951), 87-123.


2926 Dawson, Mary R. "Late Eocene rodents (mammalia) from Inner Mongolia," American Museum Novitates, no. 2191 (1964), 15 pp., 8 figs., 3 tables.


See also entries 71, 2266, 2278, 2288, 2358, and 2428.
Chapter 33

BOTANY AND ZOOLOGY

Botany

2929 Printz, Henrik. *Die Chlorophyceen des südlichen Sibiriens und des Urgankailandes.* Trondhjem, 1915. (Contributiones ad floram Asiae interioris pertinentes, edidit Henrik Printz, no. 4.) [Not seen.]


2931 Printz, Henrik. *The Vegetation of the Siberian-Mongolian Frontiers (The Sayansk Region).* Trondhjem, 1921. 458 pp., 115 figs., 3 maps, 16 pl. (Contributiones ad floram Asiae interioris pertinentes, edidit Henrik Printz, no. 3.) About vascular plants studied during a trip in 1914.


2934 Rehder, Alfred, and Ralph W. Chaney. "A new poplar (Populus pilosa) from the eastern Altai mountains, with supplemental notes on the distribution and habitat," *American Museum Novitates,* no. 292 (1927), 8 pp., 3 figs. Chaney wrote the supplement.


2937 Bohlin, Birger. *A Contribution to Our Knowledge of the Distribution of 281*
Vegetation in Inner Mongolia, Kansu, and Chinghai. Stockholm, 1949. 95 pp., 16 pl., 1 folding map. (Sino-Swedish Expedition Publications 33, XI: Botany, 3.) Inner Mongolia, Edsen-gol, Pei Shan, the depression between the Pei Shan and the Nan Shan.


See also entries 346, 1212, 1850, 2288, 2771, and 2823.

Zoology


Allen, Glover M. "Microtines collected by the Asiatic expeditions," *American Museum Novitates,* no. 133 (1924), 13 pp. Some specimens came from Central Mongolia, the rest from China.


Allen, Glover M. "Squirrels collected by the American Museum Asiatic expeditions," *American Museum Novitates,* no. 163 (1925), 16 pp. Some specimens were collected in Central Mongolia, the rest in China.


Lukashkin, A. S. "Fur bearing wild animals on the Barga steppes," *Contemporary Manchuria* 2:6 (1938), 60-84, photos and drawings. Originally published in *Vestnik Manchurii*, no. 7 & 8 (1929) which was the research magazine of the Chinese Eastern Railway.


See also entries 235, 244, 247, 335, 336, 337, 368, 374, 668, 911, 1212, 1546, 1850, 2288, 2771, and 2905.
Chapter 3

MISCELLANEA


See also entries 74, 2206, 2299, and 2823.

Weapons


See also entries 178, 1328, and 1564.