

Section E

SCIENCE AND TECHNOLOGY

## Chapter 29

### GEOGRAPHY

#### 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 F6-9. Also see Jet Navigational Charts (scale 1:2,000,000) 12, 24 and 25.
- 2718 Hedin, Sven. *Sven Hedin Central Asia Atlas*. Stockholm, 1966. (Sino-Swedish Expedition Publications, v. 47; sec. I: Geography, 1.) A folio of fourteen maps and five triangulation charts including South Mongolia and the Mongol-inhabited areas of Ch'inghai and Sinkiang.
- 2719 Ambolt, N. P., and E. Norin. *Sven Hedin Central Asia Atlas. Memoir on Maps*. Vol. 1: *Records on Surveys*. Stockholm, 1967. 148 pp. (Sino-Swedish Expedition Publications, v. 48; sec. I: Geography, 2.) Includes history of surveys, basic altitudes, astrofixes, triangulations, and plane table of route surveys. Bibliography.
- 2720 Farquhar, David M., G. Jarring, and E. Norin. *Sven Hedin Central Asia Atlas. Memoir on Maps*. Vol. 2: *Index of Geographical Names*. Stockholm, 1967. 92 pp. (Sino-Swedish Expedition Publications, v. 49; sec. I: Geography, 3.)

- 2721 Norin, E. *Sven Hedin Central Asia Atlas: Memoir on Maps*. Vol. 3: *Description of Maps*. Stockholm, 1966. (Sino-Swedish Expedition Publications, v. 50; sec. I: Geography, 4.) [Not seen.]
- 2722 Herrmann, Albert (ed. N. S. Ginsburg). *An Historical Atlas of China*. Chicago: Aldine, 1966. 128 pp. A greatly improved and enlarged edition of the original work of 1935, this atlas is still the only historical atlas that covers the entire history of Mongolia.
- 2723 *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.]
- 2724 Heissig, Walther. "Über mongolische Landkarten, Teil I," *Monumenta Serica* 9 (1944), 123-173. Describes several banner maps. Additional parts apparently never published.
- 2725 Klér, J. "À propos de cartographie mongole," *Bulletin de la Société Belge de Géographie* 80 (1956), 26-51, 2 maps.
- 2726 Haltod, Magadbürin. *Mongolische Ortsnamen aus mongolischen Manuskript-Karten zusammengestellt*. Wiesbaden: Franz Steiner, 1966. xi, 217 pp., 25 facsimiles. Twenty-six maps from Khalkha, Eastern, Southern, and Western Mongolia, followed by a list of place names.

See also entries 100, 357, 388, 389, 441, 678, 1494, and 2085.

### *Historical Geography*

- 2727 Rémusat, Jean-Pierre Abel. "Recherches sur la ville de Kara-Koroum, avec des éclaircissements 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.
- 2728 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.
- 2729 Mullie, Joseph. "Wou-p'ing-hien 武平縣 . Note sur l'ancienne géographie de la Mongolie orientale," *New China Review* 4 (1922), 184-194, map, photo.
- 2730 Charpentier, Jarl. "William of Rubruck and Roger Bacon," in *Hyllningsskrift* (1935), 255-267. Comparison of excerpts of their writings as a contribution to medieval geography.
- 2731 Herrmann, Albert. "Die Gobi im Zeitalter der Hunnenherrschaft," in



*Hyllningsskrift* (1935), 130-144. The Gobi during the time of the Hsiungnu.

- 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* 乘輅錄 by Lu Chen 路振, published in 1008, who, while serving as ambassador to the Khitan, visited Jehol, Southeastern Mongolia and Western Manchuria.
- 2733 Lattimore, Owen. "The geographical factor in Mongol history," *Geographical Journal* 91 (1938), 1-20; reprinted in his *Studies in Frontier History*, 241-258.
- 2734 Poppe, Nicholas. "Renat's Kalmuck maps," *Imago Mundi* 12 (1956), 157-159, 2 maps.
- 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.
- 2736 Minorsky, V. "Mongol place-names in Mukri Kurdistan," *Bulletin of the School of Oriental and African Studies* 19 (1957), 58-81.
- 2737 Lattimore, Owen. "The geography of Chingis Khan," *Geographical Journal* 129 (1963), 1-7. More on history than geography in the technical sense. Dickson Asia Lecture in 1962.
- 2738 Schubert, Johannes. "Zum Begriff und zur Lage des Ötüken," *Ural-Altaische Jahrbücher* 35 (1964), 213-218.
- 2739 Schubert, Johannes. "Identifizierung historischer Plätze der alten mongolischen Geschichte," *Rocznik Orientalistyczny* 30 (1966), 53-58. The khödöö aral on the Kherlen river between Doloonboldog and Shilgentseg.
- 2740 Schubert, Johannes. "Burxan Xaldund= Xentii Xan?" *Jahrbuch des Museums für Völkerkunde* 29 (1973), 153-162, 4 maps. The answer is yes. Also published in *Olon Ulsyn*, v. 2 (1973), 311-315.

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

### Regional Studies

- 2741 Przhevals'kii, N. (tr. by J. Spörer). "Die südöstliche Mongolei vom Dalei-noor bis nach Ala-schan. Physikalisch-naturhistorische Skizzen aus den Reisenotizen des Generalstabs-Kapitäns N. M. Prshewalski," *Petermanns Geographische Mitteilungen* 19 (1873), 84-95.
- 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, 4 folding



maps. The Mongol portion is quite small and only covers the Mongol areas of Tsaidam.

- 2743 Gaubil, A. "Situation de Ho-lin en Tartarie," *T'oung Pao* 4 (1893), 33-80, map. An unedited manuscript published with introduction by H. Cordier.
- 2744 Obruchev, V. A. "M. Obrucheff's explorations in Mongolia," *Geographical Journal* 5 (1895), 260-265.
- 2745 Chalon, Paul F. "En Mongolie, le pays des Saïotes," *Revue de Géographie* 54 (1904), 99-107, 163-172, 199-206, 227-236, photos.
- 2746 Carles, W. R. "Problems in exploration: II. Ordos," *Geographical Journal* 33 (1909), 668-679, map showing routes of expeditions.
- 2747 Carruthers, Douglas. "Exploration in North-West Mongolia," *Geographical Journal* 38 (1911), 165-170, map.
- 2748 Carruthers, Douglas. "Exploration in North-West Mongolia and Dzungaria," *Geographical Journal* 39 (1912), 521-551, photos. On Uriankhai.
- 2749 Granö, J. G. "Die Nordwest-Mongolei: eine geographische Skizze," *Zeitschrift der Gesellschaft für Erdkunde zu Berlin* (1912), 561-588. [Not seen.]
- 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.
- 2752 Binstead, G. C. "Some topographical notes on a journey through Barga and north-east Mongolia," *Geographical Journal* 44 (1914), 571-577.
- 2753 Kérangat, Capitaine de. "À travers le désert de Gobi (mars 1920)," *La Géographie* 36 (1921), 340-349. Across the Gobi. [Not seen.]
- 2754 Verbrugge, R. "Le pays mongol au nord-est de Si-Wanze," *Bulletin de la Société Belge des Études Coloniales* (1921), 351-384. [Not seen.]
- 2755 Merzbacher, G. "Zur Kenntnis der Mongolei (nach H. Consten)," *Geographische Zeitschrift* 28 (1922), 181-187. [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.]
- 2757 Verbrugge, R. "Explorations en Mongolie, Lamamiao. K'ing-peng. Ho-ton wa," *Bulletin de la Société Belge d'Études Coloniales* 29 (1922), 607-657. [Not seen.]

- 2758 Verbrugge, R. "Hinterland mongol, le pays au delà de Koei-hoa-tch'eng; la plaine du T'oumed," *Bulletin de la Société Belge d'Études Coloniales* 29 (1922), 99-168, 221-274. [Not seen.]
- 2759 Verbrugge, R. "Dans les grandes plaines mongoles," *Bulletin de la Société Belge d'Études Coloniales* 30 (1923), 585-623. [Not seen.]
- 2760 Verbrugge, R. "Deuxième voyage d'exploration en Arrière Mongolie," *Bulletin de la Société Belge d'Études Coloniales* 30 (1923), 241-270. On Northern Mongolia. [Not seen.]
- 2761 Morris, Frederick K. "Notes on the mapping program of the Third Asiatic Expedition in Mongolia," *Geographical Review* 14 (1924), 287-292. On the Chapman expedition. Much technical discussion containing sketches and diagrams.
- 2762 Verbrugge, R. "Les déserts spécialement étudiés en Mongolie," *Bulletin de la Société Belge d'Études Coloniales* 31 (1924), 551-574. [Not seen.]
- 2763 Hausen, Hans, ed. *The Upper Yenissei Drainage Area (Territory of Uriankhai)*. Helsingfors, 1925. 185 pp., 44 illus., 3 maps. (Societas Geographica Fennicae, Acta Geographica, v. 1.) A highly detailed report on an expedition in 1917-18, written by J. J. Sederholm, H. G. Backlund, St. Foslie, Th. Brenner, and H. Hausen, and an article by H. Hausen on the physiography of area, and historical review of topography and geological reconnaissances of the area.
- 2764 Findeisen, Hans. "Zur Landeskunde der Mongolei," *Koloniale Rundschau* (1927). A contribution to the geography of Mongolia. [Not seen.]
- 2765 Grénard, Fernand. "La Mongolie," in *Géographie universelle*, v. 13 (Paris, 1929), 248-286, illus., plates.
- 2766 Cressey, George B. "The Ordos desert of Inner Mongolia," *Journal of the Scientific Laboratories of Denison University* 28 (1933), 155-248, 32 figs., bibliography on pp. 240-248. Covers morphology of the physical landscape, climate, history of cultural contacts, explorers, the Mongols' way of life, and Chinese settlers.
- 2767 Schomberg, Reginald C. F. "The great Altai of Mongolia," *Scottish Geographical Magazine* 49 (1933), 65-73. Includes four photos and two maps of Northern Sinkiang.
- 2768 Verbrugge, R. "Le pays des Tchakars," *Bulletin de la Société Belge de Géographie* 58 (1934), 137-149. [Not seen.]
- 2769 Hörner, Nils G. and Parker C. Shen. "Alternating lakes: some river changes and lake displacements in Central Asia," in *Hyllningsskrift* (1935), 145-166, 16 figs. Deals with Lop Nor and the lakes of the Etsin gol.
- 2770 Haude, W. "Grenzen verschiedener Trockenklimate in Zentralasien," in



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

- 2771 Leimbach, Werner. *Landeskunde von Tuva, das Gebiet des Jenissei-Oberlaufes*. Gotha: J. Perthes, 1936. 124 pp. (Dr. A. Petermanns Mitteilungen aus Justus Perthes' Geographischer Anstalt, Supplement v. 49, fasc 222.) Two excellent detailed maps on the orohydrography and geology of the region. Photos and bibliography. Touches on nature (climate, fauna, etc.), population (ethnography, economy, transport), religion, and history.
- 2772 Granö, Johannes G. (ed. by A. K. Merisuo). *Itinerarien und Landschaftsprofile J. G. Granös aus Uranchai (Tannu-Tuwa) und der Nordmongolei*. Helsinki, 1938. 42 pp., 12 folding maps, 5 tables. (Societas Geographica Fennicae, Acta Geographica, v. 6.) Report on three trips in 1906, 1907 and 1909. Includes a list of rock samples by Pentti Eskola. For a fuller report, see entry 2774.
- 2773 Plaetschke, Bruno. "Landschaftskundliche Wesenszüge der östlichen Gobi," *Wissenschaftliche Veröffentlichungen des Deutschen Museums für Länderkunde*, n.f. 7 (1939), 103-148, 6 photos, 2 maps. Geographical characteristics of the Eastern Gobi.
- 2774 Granö, Johannes G. *Mongolische Landschaften und Örtlichkeiten: Eine Geographie physiognomischer Typen und einheitlicher Räume nach Reisebeobachtungen und Wegeaufnahmen in Uranchai (Tuwa) und der Nordmongolei aus den Jahren 1906, 1907 und 1909*. Helsinki, 1941. 291 pp., 27 illus. (2 maps), 3 figs., 1 table. (Societas Geographica Fennicae, Acta Geographica, v. 7, pt. 2.) Expands on his 1938 work (see entry 2772) featuring an introduction and chapters on mountain and alpine regions, alpine basin regions, and mountain plateau regions. Bibliography and index.
- 2775 Dann, I. "Die Innere Mongolei," *Geographische Zeitschrift* 48 (1942), 201-216, 1 map.
- 2776 Dann, I. "Sand und Saxaul in Alagschan," *Geographischer Anzeiger* 42 (1942), 381-383. [Not seen.]
- 2777 Dann, I. "Das Sandgebirge Badang dschering (Mongolei)," *Geographischer Anzeiger* 42 (1942), 215-218. [Not seen.]
- 2778 Granö, Johannes G. *Das Formengebäude des nordöstlichen Altai*. Turku, 1945. 362 pp., 43 illus., 18 maps, 27 figs., 22 plates. (Institut Geographica Universitatis Turku, Publications, no. 20.) Geographical analysis of borderlands of Mongolia and Siberia, especially morphological structures, based on an expedition in 1913-1916.
- 2779 Krämer, W. "Die Mongolische Volksrepublik," *Zeitschrift für den Erdkundeunterricht* (1950), no. 3. [Not seen.]
- 2780 Wiens, Herold J. "Geographical limitations to food production in the



Mongolian People's Republic," *Annals of the Association of American Geographers* 41 (1951), 348-369.

- 2781 Troëger. "Die Mongolische Volksrepublik: Verwaltungseinteilung und Verkehrswege," *Zeitschrift für den Erdkundeunterricht* 5 (1953). Administrative divisions and roads in the Mongolian People's Republic. [Not seen.]
- 2782 Murzaev, Eduard M. (tr. F. Tutenberg). *Die mongolische Volksrepublik, physisch-geographische Beschreibung*. Gotha: Geographisch-Kartographische Anstalt, 1954. 525 pp., 4 folding maps. Thorough treatment, bibliography, index. Original was *Mongol'skaya Narodnaya Respublika, fiziko-geograficheskoe opisanie* (Moscow, 1952).
- 2783 Hambis, Louis. "Notes sur Kām, nom de l'Yénisséï supérieur," *Journal Asiatique* 244 (1956), 281-300.
- 2784 Plank, Dale. "Geographical setting," in *Mongolian People's Republic* (1956), v. 1, 110-132.
- 2785 Chang Yin-t'ang. "Geographical background," in *Inner Mongolia Autonomous Region* (1956), 76-101.
- 2786 Sun Ching-chih. *Exerpts from "Economic Geography of the Inner Mongolia Autonomous Region"* (Peking 1957). Washington, D.C., 1958. 125 pp. (JPRS 368D.) [Not seen.]
- 2787 Tsegmid, Sh. *Geography of the Mongolian People's Republic*. Washington, D.C., 1961. 134 pp. (JPRS 8,288.)
- 2788 *Economic Geography of the Hulunpeierh (Mongol) League*. Edited by Kuo Lai-hsi et al. Washington, D.C., 1961. 269 pp. (JPRS 11,125.) [Not seen.]
- 2789 Alampiyev, P. M. et al. "An attempt to delimit the main economic zones of the Mongolian People's Republic," *Soviet Geography* 3 (1962), 16-24, map.
- 2790 Richter, Hans, Günter Haase, and Hellmuth Barthel. "Die Landschaften im Osten der Mongolischen Volksrepublik," *Geographische Berichte* 23 (1962), 125-141; 24 (1962), 294-328, 4 maps, 14 illus., 15 photos, 3 tables.
- 2791 Haase, G., H. Barthel, and H. Richter. "Siedlungen und Siedlungszentren in der Mongolischen Volksrepublik," *Petermanns Geographische Mitteilungen* 109 (1965), 81-102, 15 illus., 2 maps, 9 figs. Settlements and settlement centers in the Mongolian People's Republic.
- 2792 Petrov, M. P. *The Deserts of Central Asia: The Ordos, Alashan, and Peishan*. Washington, D.C., 1966. 357 pp. (JPRS 39,145.) [Not seen.]

See also entries 132, 1494, 2043, 2047, 2057, 2070, 2143, 2206, 2254, 2373, 2375, 2655, 2659, 2674, and 2823.



*Miscellaneous Works*

- 2793 U.S. Board on Geographic Names. *Decisions on Names in Mongolia*. Washington: Department of the Interior, 1953. 24 pp. A list of officially adopted spellings and also of those not adopted.
- 2794 United States, Geographic Names Division. *Mongolia: Official Standard Names Approved by the United States Board on Geographic Names*. Washington, D.C., 1970. 256 pp.



## 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.
- 2796 Granö, J. G. *Beiträge zur Kenntnis der Eiszeit in der nordwestlichen Mongolei und einigen ihrer südsibirischen Grenzgebirge: Geomorphologische Studien aus den Jahren 1905, 1906, 1907 und 1909*. Helsingfors: Suomen Maantieteellinen Seura, 1910. 230 pp., 18 figs., 9 folding maps, 19 plates. (Fennia 28, no. 5.). Contributions to the knowledge of the Ice Age in Northwestern Mongolia and the South Siberian border mountains.
- 2797 Andersson, J. G. "Current palaeontological research in China," *Bulletin of the American Museum of Natural History* 46 (1922), 727-737.
- 2798 Clements, Julius M. *Gold Placer Area in Mongolia, China*. Washington: Government Printing Office, 1922. 14 pp. (Department of Commerce, Bureau of Foreign and Domestic Commerce, Trade Information Bulletin, no. 4, Far Eastern Division.)
- 2799 Granger, Walter and Charles P. Berkey. "Discovery of Cretaceous and older Tertiary strata in Mongolia," *American Museum Novitates*, no. 42 (1922), 7 pp.
- 2800 Berkey, Charles P. and Walter Granger. "Later sediments of the desert basins of Central Mongolia," *American Museum Novitates*, no. 77 (1923), 16 pp., 1 map.
- 2801 Berkey, Charles P. and F. K. Morris. "Basin structures in Mongolia," *Bulletin of the American Museum of Natural History* 51 (1924), 103-127, 17 figs.
- 2802 Berkey, Charles P. "Geological reconnaissance in Central Mongolia," *Natural History* 24 (1924), 160-173.
- 2803 Berkey, Charles P. and Frederick K. Morris. "The Great Batholith of Central Mongolia," *American Museum Novitates*, no. 119 (1924), 11 pp., 4 figs.

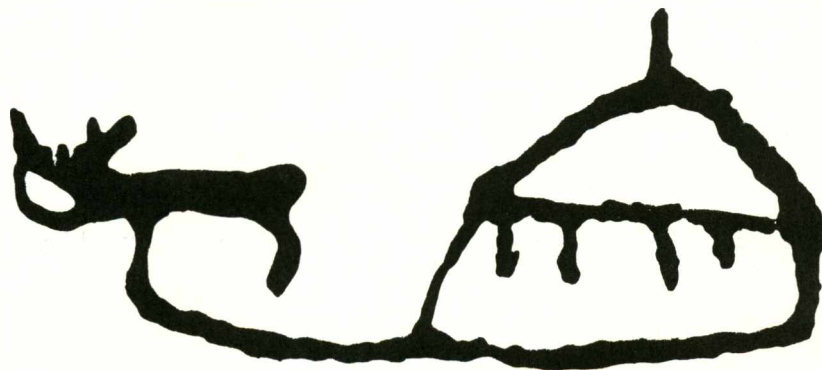


- 2804 Berkey, C. P. and F. K. Morris. "Structural elements of the Oldrock floor of the Gobi region," *American Museum Novitates*, no. 135 (1924), 15 pp., 7 figs.
- 2805 Berkey, C. P. and F. K. Morris. "The peneplanes of Mongolia," *American Museum Novitates*, no. 136 (1924), 11 pp., 11 figs.
- 2806 Teilhard de Chardin, Pierre, and E. Licent. "Observations géologiques sur la bordure occidentale et méridionale de l'Ordos," *Bulletin de Société Géologique de France*, sér. 4, 24 (1924), 49-91, 462-464. About the western and southern borders of the Ordos region.
- 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.
- 2808 Berkey, Charles P., and F. K. Morris. "Important results of the Central Asiatic expedition: the geologic background of fossil hunting," *Natural History* 26 (1926), 527-530.
- 2809 Teilhard de Chardin, Pierre. *Étude géologique sur la région du Dalai-Noor*. Paris: Société Géologique de France, 1926. 56 pp., 21 figs., 2 plates with small photos, 3 folding color maps. (Mémoires de Société Géologique de France, n.s., v. 3, no. 7.)
- 2810 Berkey, Charles P. "Geology of the Gobi desert," *American Museum Novitates*, no. 222 (1926), 1-10, photos.
- 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.
- 2812 Berkey, C. P., W. Granger, and F. K. Morris. "Additional new formations in the later sediments of Mongolia," *American Museum Novitates*, no. 385 (1929), 12 pp., 4 figs.
- 2813 Leuchs, Kurt. "Ordos und seine Randketten, ein Beitrag zur tektonischen Entwicklung von Ostasien," *Zeitschrift der Deutschen Geologischen Gesellschaft* 81 (1929), 433-443, 5 illus. The Ordos region and its border ranges as a contribution to the tectonic development of East Asia.
- 2814 Spock, L. Erskine. "Pliocene beds of the Iren Gobi," *American Museum Novitates*, no. 394 (1929), 8 pp., 6 figs.
- 2815 Spock, L. Erskine. "New Mesozoic and Cenozoic formations encountered by the Central Asiatic expedition in 1928," *American Museum Novitates*, no. 407 (1930), 8 pp., 6 figs.

- 2816 Beckwith, Radcliffe H. "Contributions to the geology of Northern Mongolia," *Bulletin of the American Museum of Natural History* 67 (1934), 311-352 and 4 figs. Abstracted from the Russian and annotated. (1) Geology of the Eastern border of the Kharkira range, by Z. A. Lebedeva, (2) geology of Northeastern Mongolia, by B. M. Kupletsky, and (3) the Jargalants terraces, by B. B. Polynov and I. M. Krashenninnikov.
- 2817 Raupach, F. "Stratigraphische und tektonische Entwicklung des russischen Ostens, der Mandschurei und der zentralen Mongolei," thesis (Universität Leipzig), 1934. [Not seen.]
- 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).
- 2819 Bexell, Gerhard. "Statigraphisch-geologische Arbeiten in der Inneren Mongolei und Mittelasiens," *Petermanns Geographische Mitteilungen* 81 (1935), 287-288. Brief report from the Sven Hedin expedition.
- 2820 Hausen, H. "Geological outlines of Uriankhai or the Tannu-Tuva Republic," in *Hyllningsskrift* (1935), 326-343, 14 illus., 2 plates, 1 folding map.
- 2821 Bexell, Gerhard. "Geological and paleontological investigations in Mongolia and Kansu, 1929-1934," in *History of the Expedition* (1945), 193-253, 12 plates, 1 large folding map. Mongolia section on pp. 195-207.
- 2822 Bohlin, Birger. "Palaeontological and geological researches in Mongolia and Kansu" in *History of the Expedition* (1945), 255-324; 11 pl., 16 figs., 1 large folding map. Includes description of research in Mongolia in 1929-30 on pp. 257-271 and 320-324.
- 2823 Bessalov, N. D. (tr. Israel Program for Scientific Translations for U.S. Department of Agriculture). *Soils of Outer Mongolia (Mongolian People's Republic)*. Jerusalem, 1964. 320 pp., 72 illus., 104 tables, large foldout map. Very detailed study including a discussion of agriculture, geography, climate, and vegetation. Translation of *Pochvy Mongol'skoi Narodnoi Respubliki* (Moscow: Nauka, 1951). 319 pp., illus., map (Trudy Mongol'skoi Komissii, v. 41).
- 2824 Matsuzawa, Isao (tr. USAFFE). *The Geological History of the Mongolian Plateau and the History of the Physiographic Development*. Tokyo, 1955. 83 pp. [Not seen.]
- 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.)

- 2826 Sovetsko-mongol'skaia Gobi-Altayskaia ekspeditsiia (tr. by Israel Program for Scientific Translations for U.S. Department of Commerce). *The Gobi-Altai Earthquake*. Jerusalem, 1965. 424 pp., 199 figs., map in pocket. Originally published in 1963.
- 2827 *Materials on the Geology of the Mongolian People's Republic*. Washington, D.C., 1967. 194 pp. (JPRS 41,425.) [Not seen.]

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.
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## Chapter 32

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

## Chapter 33

### BOTANY AND ZOOLOGY

#### Botany

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

### Zoology

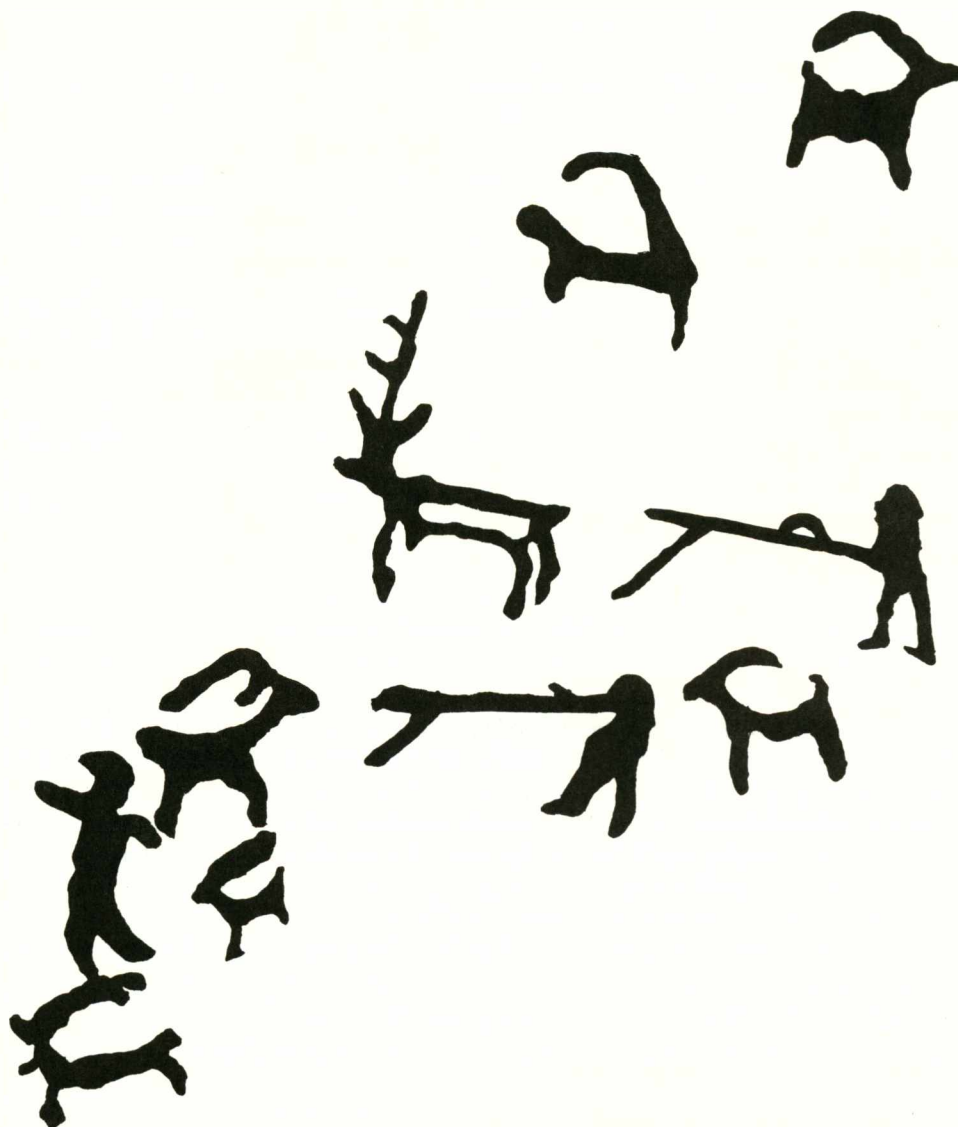
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Chapter 34

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