

古生物誌丙種第六號

師丹斯基著

第二冊

中國舊新生代之哺乳類化石

(學術研究與國立中央研究院合作)

中華民國十九年二月

實業部地質調查所
國立北平研究院地質學研究所
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THE GEOLOGICAL SURVEY OF CHINA
PALÆONTOLOGIA SINICA

中國古生物誌

Palæontologists to the Geological Survey: Chief Palæontologist: A. W. Grabau:
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Palaeontologia Sinica

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SERIES A.

Fossil Plants of China

VOL. I

Tertiary Plants, and Miscellaneous Collections.

- Fascicle 1. R. Florin: Zur Alttertiären Flora der südlichen Mandschurei. (published Aug. 1922) pp. 46 German, 8 Chinese, 3 plates. Price \$3.00 Chinese Currency; 9s; or \$2.05 Gold.
- Fascicle 2. T. G. Halle: Fossil Plants from South-Western China, collected by Dr. V. K. Ting. (Published 1927) pp. 26 Engl., 4 Chinese, 5 plates. Price \$3.00 Chinese Currency.
- Fascicle 3. R. Florin: Tertiäre Pflanzenreste aus Nord China. Abt. 45 pp. German, 8 Chinese 3 plates. (*In preparation*) (Other fascicles to follow).

VOL. II

Palæozoic Plants of China.

(COMPLETE)

- Fascicle 1. T. G. Halle: Plants from the Tai-Yuan-Fu area of Shansi, collected by Dr. E. Norin. 316 pages English text, 4 Chinese, 64 plates. Published 1928. Price \$ 18.00
- Volume Title Page and Index.

VOL. III

Palæozoic Plants of China.

- Fascicle 1. T. G. Halle: Plant remains from Western and South-Eastern Shansi. Abt. 250 pages English text, 15 Chinese, 40 plates. (Other fascicles to follow).

VOL. IV

Mesozoic Plants of China.

(Arrangement for the description of the Mesozoic plants have not yet been made.)

SERIES B.

Fossil Invertebrates of China

VOL. I

Older Palæozoic Faunas of China. I

- Fascicle 1. A. W. Grabau: Ordovician Fossils from North China. (published April 28, 1922) 127 pp. English, 4 pp. Chinese, 9 plates. Price \$ 5.00 Chinese Currency; 15s; or \$ 3.40 Gold.

- Fascicle 2. C. C. Yü: Ordovician Cephalopoda of Central China pp. 71 English, 20 Chinese, 9 plates. Published Nov. 1, 1931. Price \$ 4.50 Chinese Currency.
- Fascicle 3. F. N. Kolarova: Brachiopods of the Neichia Formation of Central China. (*In preparation*).
- Fascicle 4. Y. C. Sun: Contribution to the Cambrian Fauna of North China. (Published Dec. 1, 1924) 110 pp. English, 24 pp. Chinese text, 5 plates. Price \$4.00 Chinese Currency: 12s; \$2.70 Gold. (Volume title-page and index).

VOL. II.

Palæozoic Corals of China. Part I. Tetrseptata

- Fascicle 1. A. W. Grabau: Introduction. Petraliidae, Streptelasmaidæ and Cyathaxonidæ (Published Sept. 1, 1922.) 76 pp. English, 28 pp. Chinese text, 1 plate. Price \$3.00 Chinese Currency; 9s; or 2.05 Gold.
- Fascicle 2. A. W. Grabau: Second Contribution to our knowledge of the Streptelasmoid Corals of China and Adjacent territories. pp. 175 English, 4 Chinese, 6 plates. Price \$4.50 Chinese Currency. Published 1928 (Other fascicles to follow).

VOL. III.

Older Palæozoic Faunas of China II

- Fascicle 1. Y. C. Sun: Cambrian Fauna of Southern China. (*In preparation*).
- Fascicle 2. A. W. Grabau: Silurian Fauna of Eastern Yunnan. (Published March 25, 1926) 100 pp. English, 4 Chinese, 4 plates. Price \$3.50 Chinese Currency, 10s, 6d; \$2.40 Gold.
- Fascicle 3. A. W. Grabau: Devonian Brachiopoda of Yunnan and Neighboring Provinces (*In Press*). About 500 pp. English, 15 pp. Chinese, 54 plates.
- Fascicle 4. A. W. Grabau: Devonian Brachiopoda of Kueichow & Hunan. (*In preparation*).

VOL. IV.

The Fusulinidæ of China

- Fascicle 1. J. S. Lee: Fusulinidae of North China. Part 1. (Published 1927) pp. 123 English, 10 Chinese, 24 plates. Price \$8.00 Chinese Currency (Other fascicles to follow).

VOL. V.

Younger Palæozoic Faunas of China I

(COMPLETE)

- Fascicle 1. C. C. Tien: Carboniferous Crinoids of China. (Published 1926). pp. 58 English, 6 Chinese, 3 plates. Price \$2.00 Chinese Currency.
- Fascicle 2. Y. T. Chao: Productidæ of China. Part 1. (Published 1927). pp. 244 English, 23 Chinese, 16 plates. Price \$8.00 Chinese Currency.
- Fascicle 3. Y. T. Chao: Productidæ of China. Part 2. (Published 1928). 81 pp. English, 5 pp. Chinese, 5 plates. Price \$4.00 Chinese Currency.
- Title Page and Index.

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Tertiary and Quaternary Mollusca of China

- Fascicle 1. N. H. Odhner: Fossil Shells of the San Men Series. (Published Dec. 1925) 20 pp. English, 4 pp. Chinese, 5 plates. Price \$ 2.00 Chinese Currency.
- Fascicle 2. N. H. Odhner: Fossil Shells of the Ertemte Formation of Mongolia. (*In preparation*) Abt. 10 pp. English text, 2 pp. Chinese, 2 plates.
- Fascicle 3. A. W. Grabau and Sohtsu C. King: Contributions to the Fauna of the San Men Formation of North China. (*In preparation*). Abt. 75 pp. Eng., 5 pp. Chinese, 10 plates.
- Fascicle 4. N. H. Odhner: Pliocene Mollusca of Kwangsi. About 20 pp. Engl., 5 pp. Chinese, 3 plates. (*In press*).
- Fascicle 5. C. Ping: Fossil Terrestrial Gastropods from North China. (Published 1929) 30 pp. English text, 9 pp Chinese, 2 plates. Price \$2.00 Chinese Currency.
- Fascicle 6. C. Ping: On fresh water and Terrestrial Gastropoda of North China pp. 30 English, 4 plates, 1 map (*In press*).

VOL. VII.

Older Palaeozoic Faunas of China. III.

- Fascicle 1. Y. C. Sun: Ordovician Trilobites of Central and Southern China. About 60 pp Engl., 4 Chinese, 3 plates. (*In press*).
- Fascicle 2. A. W. Grabau: Silurian Faunas of Central China. About 150 pp. Engl., 10 pp. Chinese 8 plates.
- Fascicle 3. Y. C. Sun: Devonian Corals of China Part 1. About 60 pp. Engl., 4 Chinese, 5 plates, (*In preparation*).

VOL. VIII.

Permian Faunas of China I.

- Fascicle 1.: Fauna of the Talapai formation of Kansu. About 35 pp. English, 5 pp. Chinese & 3 plates.
 - Fascicle 2. S. S. Yoh: Tetrapora Corals of the Chihsia Limestone of the Lower Yangtze.
 - Fascicle 3. T. K. Huang: Permian Corals of Central & Southern China. About 100 pp. English, 6 pp. Chinese, 15 plates.
- Volume Title Page and Index.

VOL. IX.

Permian Faunas of China II.

- Fascicle 1. T. K. Huang: Lower & Middle Permian Brachiopods of Central & Southern China. About 100 pages English, 10 pp. Chinese, 6 plates.
 - Fascicle 2. C. C. Tien: Permian Molluscs of Central & Southern China.
 - Fascicle 3. Y. T. Chao: Fauna of the Taiyuan formation of North China Pelecypods. 64 pp. English, 10 pp. Chinese, 4 plates. Published 1927. Price \$3.00. Chinese Currency.
 - Fascicle 4. A. W. Grabau: Fauna of the Maping Limestone (Upper Permian) About 100 pp. English, 3 Chinese, 8 plates (*In preparation*).
- Volume Title Page and Index.

VOL. X.

Permian Fauna of China III.

(COMPLETE)

- Fascicle 1. A. W. Grabau: Permian of Mongolia. About 400 pp. English, 20 pp. Chinese, 35 plates. (In press) Published as Vol. IV Natural History of Mongolia.

VOL. XI.

Younger Palæozoic Faunas of China. II

- Fascicle 1. Y. T. Chao: Carboniferous and Permian Spiriferids of China. pp. 133 English, 6 Chinese, 11 plates. (Published 1929.) Price \$6.00 Chinese Currency.
- Fascicle 2. Y. C. Sun: Carboniferous and Permian Trilobites of China.

VOL. XII.

Carboniferous Faunas of China

- Fascicle 1. A. W. Grabau: Fengninian (Lower Carboniferous) Brachiopods of China. (Ready for publication) pp. 150 English, 10 plates.
- Fascicle 2. A. W. Grbau: Weiningian (Middle Carboniferous) Brachiopods of China. 55 pp English, 4 Chinese, 4 plates. (Ready for publication).
- Fascicle 3. C. C. Yü: Lower Carboniferous Corals of China. (In preparation).
- Fascicle 4. Y. S. Chi: Lower Carboniferous Syringoporas of China. (In preparation).
- Fascicle 5. Y. S. Chi: Weiningian (Middle Carboniferous) Corals of China. (In preparation).

VOL. XIII.

Fossil Insects of China

- Fascicle 1. C. Ping: Cretaceous Insects of China. About 47 pp. English, 7 Chinese, 3 plates published 1928. Price \$2.00 Chinese Currency.

VOL. XIV.

Graptolites of China

- Fascicle 1. Y. C. Sun: Ordovician and Silurian Graptolites from China. About 50 pp. English, 6 Chinese, 4 plates. (Ready for Publication).
- Fascicle 2. K. H. Hsu: Ordovician Graptolites from South China.

VOL. XV

Mesozoic Invertebrates of China

- Fascicle 1. Y. C. Sun: Triassic ammonite of S. W. China. Abt. 30 pp. English, 4 pp. Chinese, 3 plates.
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- Fascicle 3.: Jurassic Invertebrates of China. Abt. 20 pp. English, 2 pp. Chinese, 2 plates
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- Fascicle 5.: Cretaceous Invertebrates of China. Part 2. Abt. 40 pp. English, 5 pp. Chinese, 5 plates. (Other fascicles to follow).

SERIES C.

Fossil Vertebrates of China.

VOL. I.

Tertiary Vertebrates of China.

(COMPLETED)

- Fascicle 1. *Max Schlosser*: Tertiary Vertebrates from Mongolia. (Published May 1924) pp. 119 Engl. 3 Chinese, 6 plates. Price \$ 4.50 Chinese Currency; 13s, 6d; or \$ 3.50 Gold.
- Fascicle 2. *Max Schlosser*: Fossil Primates from China. (Published Dec. 1924) pp. 14 English, 2 Chinese, 1 plate. Price \$ 1.00 Chinese Currency; 3s; or \$ 0.70 Gold.
- Fascicle 3. *Einar Lönnberg*: On a New Fossil Porcupine from Honan with some remarks about the Development of the Hystricidae. (Published Dec. 1924). pp. 15 English, 2 Chinese, 1 plate. Price \$ 1.00 Chinese Currency; 3s; or \$ 0.70 Gold.
- Fascicle 4. *T. J. Ringstrom*: Nashörner der Hipparion-Fauna Nord-Chinas (Published Oct. 1924) 156 pp. German, 4 Chinese, 12 plates. Price \$ 6.00 Chinese Currency; 18s; or \$ 4.10 Gold.

Volume Title-page and Index.

VOL. II.

Tertiary and Quaternary Vertebrates of China. I

(COMPLETE)

- Fascicle 1. *O. Zdansky*: Jungtertiäre Carnivoren Chinas. (Published Dec. 1924) 150 pp. German, 9 pp. Chinese, 15 plates. Price \$ 6.00 Chinese Currency; 18s; or \$4.10 Gold.
- Fascicle 2. *O. Zdansky*: Quatäre Carnivoren aus Nord China. pp. 38 German, 2 Chinese, 4 plates Published 1925. Price \$ 2.00 Chinese Currency.
- Fascicle 3. *O. Zdansky*: Fossile Hirsche Chinas. 127 pp. German, 2 Chinese, 16 plates. Published 1925. Price \$ 5.00 Chinese Currency.
- Fascicle 4. *O. Zdansky*: Paracamelus gigas Schlosser, 52 pp. German, 1 Chinese, 4 plates, Published 1925. Price \$ 2.50 Chinese Currency.

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VOL. III.

Fossil Fishes of China.

- Fascicle 1. *Erik Stensiö*: Fossil Fishes from Shantung. (Ready for publication). Abt. 30 pp. English, 5 Chinese, 5 plates.
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VOL. IV.

Tertiary and Quaternary Vertebrates of China. II

(COMPLETE)

- Fascicle 1. *B. Bohlin*: Die Familie Giraffidae mit besonderer Berücksichtigung der fossilen Formen aus China. (pp. 208 German, 2 Chinese, 12 plates). Published 1926. Price \$7.00 Chinese Currency.
- Fascicle 2. *I. Sefve*: Die Hipparionen Nord-Chinas. (pp. 95 German, 3 Chinese, 7 plates). Published 1928. Price \$4.00 Chinese Currency.
- Fascicle 3. *T. Ringström*: Über quartäre und jungtertiäre Rhinocerotiden aus China und der Mongolei. (pp. 24 German, 2 Chinese, 2 plates). Published 1928. Price \$2.00 Chinese Currency.
- Fascicle 4. *O. Zdansky*: Weitere Bemerkungen über fossile Carnivoren aus China. (pp. 28 German, 2 Chinese, 2 plates). Published 1928. Price \$2.00 Chinese Currency.
Volume Title Page and Index.

VOL. V.

Tertiary and Quaternary Vertebrates of China.

(COMPLETE)

- Fascicle 1. *O. Zdansky*: Weitere Bemerkungen über fossile Cerviden aus China. Published 1928 pp. 20 German, 2 Chinese, 1 plate. Price \$1.50 Chinese Currency.
- Fascicle 2. *G. S. Miller, Jr.*: Revised determinations of some Tertiary Mammals from Mongolia. (pp. 20 English). Published 1927. Price \$1.00 Chinese Currency.
- Fascicle 3. *C. C. Young*: Fossile Nagetiere aus Nord-China (pp. 82 German, 2 Chinese, 3 plates). Published 1928. Price \$4.00 Chinese Currency.
- Fascicle 4. *O. Zdansky*: Die Säugetiere der Quartärfauna von Chou-K'ou-Tien. (pp. 146 German, 4 Chinese, 16 plates & 16 figures of text). Published 1928. Price \$8.00 Chinese Currency.
Volume Title Page and Index.

VOL. VI.

Mesozoic & Tertiary Vertebrates of China.

- Fascicle 1. *Carl Wiman*: Die Kreide-Dinosaurier aus Shantung. 67 pp. German, 3 pp. Chinese, 9 plates. Published 1929. Price \$6.00.
- Fascicle 2. *O. Zdansky*: Die alttertiären Säugetiere Chinas nebst stratigraphischen Bemerkungen. pp. 88 German, 3 Chinese, 5 plates. Published 1930. Price \$ 6.00.
- Fascicle 3. *Carl Wiman*: Fossile Schildkröten aus China. pp. 56 German, 3 Chinese, 6 plates. Published 1930. Price \$ 6.00.

VOL. VII.

Mammalian Fossils from Chou Kou Tien, A—from Localities other than Sinanthropus site (Loc. 1).

- Fascicle 1. *C. C. Young*: On the Mammalian Remains from Chi-Ku-Shan, near Chou-Kou-Tien. pp. 24 English, 4 Chinese, 2 Plates, 1 Text figure. Published 1930. Price \$ 3.00 Chinese Currency.
- Fascicle 2. *W. C. Pei*: On the Mammalian Remains from Loc. 5 of Chou Kou Tien. (*In preparation*).
- Fascicle 3. *C. C. Young*: On the Mammalian Remains from Loc. 2 of Chou Kou Tien. (*In preparation*).
- Fascicle 4. *W. C. Pei*: On the Mammalian Remains from Loc. 3 and 4 of Chou Kou Tien (*In preparation*).

Fascicle 5. C. C. Young and W. C. Pei: On the Mammalian Remains from Tung Tung near Chou Kou Tien. (*In preparation*).

Fascicle 6. W. C. Pei and C. C. Young: On the Mammalian Remains from Loc. 9 of Chou Kou Tien. (*In preparation*).

VOL. VIII.

Mammalian Fossils from Chou Kou Tien B—from Sinanthropus site (Loc. 1).

Fascicle 1. W. C. Pei: On the Carnivores from Loc. 1 of Chou Kou Tien. (*In preparation*).

Fascicle 2. C. C. Young: On the Artiodactyla from Loc. 1 of Chou Kou Tien. (*In preparation*).

Fascicle 3. C. C. Young: On the Micro-Mammals from Loc. 1 of Chou Kou Tien. (*In preparation*).

(Other Fascicles to follow.)

VOL. IX.

Late Cenozoic Mammalian Fossils of North China.

Fascicle 1. Teilhard de Chardin and C. C. Young: Fossil Mammals from the late Cenozoic of China (*in press*).

(Other Fascicles to follow.)

SERIES D.

Ancient Man in China.

VOL. I.

Neolithic Man in China. I

(COMPLETED)

Fascicle 1. J. G. Andersson: The Cave Deposits of Sha-Kou-T'un in Fengtien. (Published April 1923). pp. 58 English, 24 Chinese, 12 plates (1 in color). Price \$ 3.50 Chinese Currency; 10s. 6d; or \$ 2.40 Gold.

Fascicle 2. T. S. Arne: Painted Chinese Pottery from the Stone Age (Published Jan. 1925). pp. 40 English, 15 Chinese, 13 plates (6 in color). Price \$ 6.00 Chinese Currency; 18s; or \$ 4.10 Gold.

Fascicle 3. Davidson Black: Human Skeletal Remains from Sha Kuo T'un cave deposits in comparison with those from Yang Shao Tsun, and with Recent North China Skeletal Material. (Published June 1925). 148 pp. English, 16 Chinese, 14 plates. Price \$ 6.00 Chinese Currency; 18s; or \$ 4.10 Gold.

(Volume title-page and index).

VOL. II.

Prehistoric Sites of North China.

Fascicle 1. J. G. Andersson: Topographic Description of Prehistoric Sites of North China. (*In preparation*). About 150 pp. English, 60 pp. Chinese, 31 maps, 28 plates of landscapes.

Fascicle 2. J. G. Andersson: General Review of the Furniture of the Different Prehistoric Sites and Periods of North China. (*In preparation*). About 100 pp. English, 30 pp. Chinese, 30 plates (4 colored) of artifacts and pottery.

(Volume title-page and index).

VOLS. III, IV & V.

Prehistoric Ceramics and other Artifacts of North China.

The detailed description of the large collection of prehistoric ceramics and other artifacts will be entrusted to a number of specialists. Details about the names of the different authors and the titles of their contributions can not be given at present. The various fascicles of Vols. III to V are calculated to comprise 850 pages English and 300 pages Chinese text, with 124 plates (15 in color).

VOL. VI.

Neolithic Man in China. II

Anthropological Studies

- Fascicle 1. *Davidson Black*: A study of Kansu and Honan Aeneolithic skulls, and of specimens from later Kansu prehistoric sites, in comparison with North China and other Crania. Part I: On Measurements and Identification, pp. 83 English, 10 Chinese, 31 text figures, 21 tables. (Published 1928). Price \$ 4.00 Chinese Currency.
- Fascicle 2. *Davidson Black*: Ibid. Pt. II. Morphology about 100 pp. English, 10 Chinese, 15 plates. (*In preparation*).
- Fascicle 3. *Davidson Black*: The Hunan Skeletal Remains from the Kansu Aeneolithic and Earliest Historic Sites. About pp. 150 English, 30 Chinese, 15 plates.
Volume Title Page and Index.

VOL. VII.

Lower Quaternary Man in China.

- Fascicle 1. *Davidson Black*: On a Lower Molar Hominid Tooth from the Chou Kou Tien Deposit (pp. 26 English, 8 Chinese, 2 plates). Published 1927. Price \$ 3.00 Chinese Currency.
- Fascicle 2. *Davidson Black*: On an adolescent skull of *Sinanthropus pekinensis*. (*in press*).

Note:

The Fascicles of the *Palaeontologia Sinica*, and the other publications of the Geological Survey of China, and the Bulletin of the Geological Society of China, are for sale at the following offices:

- Peking:** Library, Geological Survey, 9 Ping Ma Sze, West City.
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Geological Institute.
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Buchhandlung Gustav Fock, G. M. B. H. Postschliessfach 100.
- New York:** A. G. Seiler & Co., 1224 Amsterdam Ave.
C. E. Stechert & Co., 31-33 East 10th St.

(Edition of 1931)

Series C.

Volume VI. Fascicle 2.

PALÆONTOLOGIA SINICA

Editors:

V. K. Ting and W. H. Wong

Die alttertiären Säugetiere Chinas nebst stratigraphischen Bemerkungen

BY

OTTO ZDANSKY

Egyptian University, Cairo

Plates I—V and 7 figures of text.



Geological Survey of China V. K. Ting and W. H. Wong Directors
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EINLEITUNG.

DIE NACHSTEHENDE ARBEIT ENTHÄLT DIE BESCHREIBUNG DER EOZÄ-
nen Säugetiere, die in den Jahren 1921—1923 durch die unter den Aus-
pizien des Schwedischen China-Kommittes vorgenommenen Aufsammlungen zu-
sammengebracht worden sind. Die Arbeit gliedert sich in einen systematischen Teil,
in dem die verschiedenen Formen ohne Rücksicht auf Alter und Fundort behandelt
werden, und den stratigraphischen Teil, in dem die einzelnen Fundorte behandelt und
das Alter der Ablagerungen besprochen werden. Dieser Teil wird etwas lückenhaft
erscheinen, denn obwohl ich im Verlaufe der Sammeltätigkeit alle Fundstellen selbst
besucht habe, habe ich damals nicht erwartet, mich auch selbst mit ihrer Geologie
befassen zu müssen, und daher nur äusserst knapphändige Aufzeichnungen gemacht.
Der systematische Teil behandelt, wie man sehen wird, so gut wie ausschliesslich
Zahnmaterial, denn obwohl an manchen Fundstellen auch Skeletteile in ziemlicher Menge
vorhanden sind, ist es mir im Allgemeinen nicht gelungen, dieselben den verschiede-
nen, durch ihre Bezahnung belegten Formen zuzuweisen. Es trägt hieran nicht nur der
unzureichende Umfang der mir zu Gebote stehenden Vergleichssammlungen die Schuld,
sondern auch die sehr summarische Behandlung, welche diese Teile in der überwie-
genden Mehrheit der paläontologischen Arbeiten erfahren haben.

Es ist mir ein Bedürfnis, allen denen meinen wärmsten Dank auszusprechen, die
mich auf die eine oder andere Weise in der Durchführung dieser Arbeit unterstützt
haben. Es sind das die Herren Prof. J. G. ANDERSSON-Stockholm, Dr. C. GAILLARD-Lyon,
Dr. H. HELBING-Basel, Överintendent Dr. A. LAGRELIUS-Stockholm, Prof. Fr. ROMAN-
Lyon, Dr. S. SCHAUB-Basel, Dr. H. G. STEHLIN-Basel und Prof. C. WIMAN-Upsala.

Upsala, im September 1929.

OTTO ZDANSKY.
