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6

GEOLOGIC RECONNAISSANCES IN THE CHINESE T'IEN-SHAN

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APPENDICES

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WITH 33 ILLUSTRATIONS IN THE TEXT, 23 PLATES, 3 MAPS, AND ONE PLATE OF SECTIONS AT END OF VOLUME

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P R E F A C E

In 1937, the author published a report on the "Geology of Western Quruq tagh" (Rep. Sino-Swedish Exp. III. 1) describing a region, many geological features of which are, so far, unic in Central Asia. Orographically, this region forms the south-eastern part of the great T'ien-shan Mountain System, but the rocks encountered here and the geological structure are rather different from those characteristic of the northern and western parts of T'ien-shan. The author was therefore led to regard this region as an element foreign to T'ien-shan proper, and a part of the ancient southern Oldland, now largely buried below the young deposits of the Tarim Basin.

In the present volume, additional data are set forth, which support this theory. It offers a plausible explanation of the distribution of sedimentary facies zones and the structure of the Mountain System, elucidated by the geological reconnaissances in its central, northern, and western parts during four years of explorations, the results of which are here recorded.

The publication of this report and the laboratory work on the material during the last three years, has been made possible by financial support from the SWEDISH GOVERNMENT, for which I express my deeply felt gratitude.

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