

## **ANCIENT GLACIAL DEPOSITS OF TIEN SHAN.**

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Late Precambrian glacial deposits are wide spread in Tien-Shan. The traces of glaciation in the Tien-Shan, China, Australia, Africa and South America indicate on location of the ancient supercontinent Gondwana near South Pole. It is possible that the glacial deposits have different age, however all of them are limited from above by Cambrian and Precambrian boundary age of interval of glacial deposits in the China stands apart in the volume of Sinian subdivision of Precambrian stratigraphic scale with the age of 800-570m.y. There are 2 different structural regions of location of glacial deposits in the Tien-Shan. In the Middle Tien-Shan they overlay Rannian granitoid (720m.y.) and in their turn are overlapped by Lower Cambrian deposits. In Talas-Karatau zone they overlay the deposit containing Upper Riphey microfossils and overlain limestones with glauconite, which aging 560-570  $\pm$  30m.y. The latter are overlaid by Lower Cambrian (Tommotian) deposits. Glacial deposits of Tien-Shan are associated with sandstones, conglomerates, shales and bimodal volcanic rocks. They indicate on fragmenting time of Gondwana continent. Glacial deposits formed in the different environments. In the Talas-Karatau zone they have all features of continental moraines with special structural-textural peculiarities. In the Middle Tien-Shan the sedimentation of glacial deposits occurred on the submerging rift shoulder. Initially, there were continental basins, which were replaced by the environments of the continental slope. Clastic material was carried out to the sea by debris flows from shore ice zone.