bounding a flood-plain so narrow that in the valley bottom a road with difficulty finds a place among the cedars and must often cross the cascading brook or even climb out of the valley. Between these young valleys the graded northern slopes

of the broad anticline are covered with cedars, which form the only forest seen during the whole journey. Far up the stream, where glaciers have been at work, the valleys widen and are better graded, and at the same time the interstream areas become rougher, although they still contrast strongly with the valleys. The youth of the latter is shown not only by the steepness of the walls, but by the relatively moderate depth, 1,000 or 2,000 feet, which seems to be the most that they have as yet attained beneath the interstream highlands, although the streams descend very rapidly and are cutting actively. Another evidence of youth is seen in a normal hanging valley from which a small side stream cascades 40 or 50 feet directly into the Jukuchak Su, whose narrow valley here has no flood-plain whatever.

The broad ridge which lies along the northern border of the Tian Shan plateau is always covered with snow, and most of its passes are occupied by glaciers. A few of the summits have been sharpened into peaks by glacial action—after the fashion described for Alpine peaks by Richter—and are worth seeing as attractive examples of Alpine scenery, but most of them are mere remnants of the old peneplain, separated by broad, but not very deep, valleys of glacial origin. The uniformity of summit height is illustrated by the excellent topographical map constructed by the Russian general staff on a scale of 2 versts (1½ miles) to the inch. Out of 43 summits, of which the elevation was given on three contiguous sheets at the eastern end of Issik Kul, 32 reached an elevation of from 13,000 to 14,000 feet, and the highest reached 15,069 feet.

As soon as the broad ridge of the northern border is crossed the country assumes an aspect which fully justifies the term "plateau." At Jukuchak pass, for instance, the narrow young valley which one ascends in traveling southward from Issik Kul is exchanged for a broad, open, elevated plain, bounded on all sides by snowy mountains, whose slight dissection causes them to suggest a block of marble on which the sculptor has rudely outlined a form but on which he has as yet carved few details (see fig. 125). The treeless plain with its cover of brown or green grass has the thoroughly graded aspect and subdued slope of a region in late maturity; and such it is in spite of its elevation and potential youth. So far as erosion is concerned it only waits for some stream to cut headward through the surrounding ridges to cause it to enter upon a new cycle at the very beginning of youth. The Yak Tash basin, southwest of

124.-Cross-section of the Tian Shan /ertical exaggeration == Table I, p. 162. unshaded profile is

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