

CHAPTER LXIV.

TRIGONOMETRICAL MEASUREMENTS OF SOME HIGH PEAKS IN THE TRANSHIMALAYA.

During my last journey in Tibet I measured the altitude of 20 peaks, all, with the exception of three that belong to the Kubi-gangri, situated in the Trans-himalayan system. The measurements were carried out with the same theodolite which I used for the astronomical observations.

Professor Karl D. P. ROSÉN has been kind enough to examine my observations, and to calculate the altitudes from the collected data.

The distances from the different stations to the objects were determined by Colonel H. BYSTRÖM from his map in 1:200000. My bearings to the peaks were entered on this map, and the situation of the different objects was found by the intersection of the bearings. Pl. CII shows the procedure followed in the case of the peaks A, B, C, and D of Targo-gangri. The scale is 1:200000, and the diagram can therefore be directly compared with the map. Δ 150, 151 etc. are camps; \odot P are points from which panoramas with compass bearings were sketched. Determining the situation of peak A Colonel Byström has chiefly made use of the nearest stations. In the triangle of error marked with thick lines which was obtained by the intersections of these bearings, the point of intersection of the diagonals was fixed, and this point was also found to be cut by the bearing taken from a station halfway between Camps 151 and 152 which was situated at a short distance from the object. The 72 km. long bearing from Angden-la also cuts the same point of intersection, which must be regarded as rather accidental, as the other long bearings fall more or less outside of the triangle. The determination of the location of the other three peaks, B, C, and D, does not demand any further explanation, as the procedure is clearly visible from the diagram.

Pl. CIII shows the same procedure in the case of the five peaks, M, L, K, J and J₁ of Lunpo-gangri and of the »White Cupola» north of it. Determining the location of the last-mentioned peak, Colonel Byström has altogether rejected the two easternmost long bearings. It is true that the four bearings from the south meet