



This plot represents the distribution and abundance of cobalt in 976 stream sediment and 109 glacial debris samples collected during 1975 and 1976 in the Talkeetna quadrangle. At most sites, stream sediments were collected in the active channels of swift mountain streams draining areas ranging from about 5 to 10 km². Glacial debris was collected from lateral and medial moraines of valley glaciers with catchment areas similar to those of the streams. For the purposes of this study analytical data from the samples of glacial debris were combined with those from stream sediment because statistical analysis of the analytical data showed that these two media are chemically similar. The samples of stream sediment and glacial debris were air dried and sieved through an 80-mesh (0.18 mm) screen. A split of the minus-80-mesh material was analyzed for 30 elements by semiquantitative emission spectrography. The results were entered into the computerized Rock Analysis Storage System (RASS) of the U.S. Geological Survey STATPAC system to produce element distribution plots and tabular statistics. The range of concentration of each element was subdivided into three or more intervals for plotting by symbols as shown on the accompanying histogram.

Scale 1:250,000

MAP SHOWING DISTRIBUTION PATTERN OF COBALT IN STREAM SEDIMENT AND GLACIAL DEBRIS SAMPLES

GEOCHEMICAL MAPS SHOWING DISTRIBUTION AND ABUNDANCE OF SELECTED ELEMENTS IN THE TALKEETNA QUADRANGLE, ALASKA

by

Gary C. Curtin, Richard D. Karlson, Gordon W. Day, Richard M. O'Leary, and Richard B. Tripp

1978