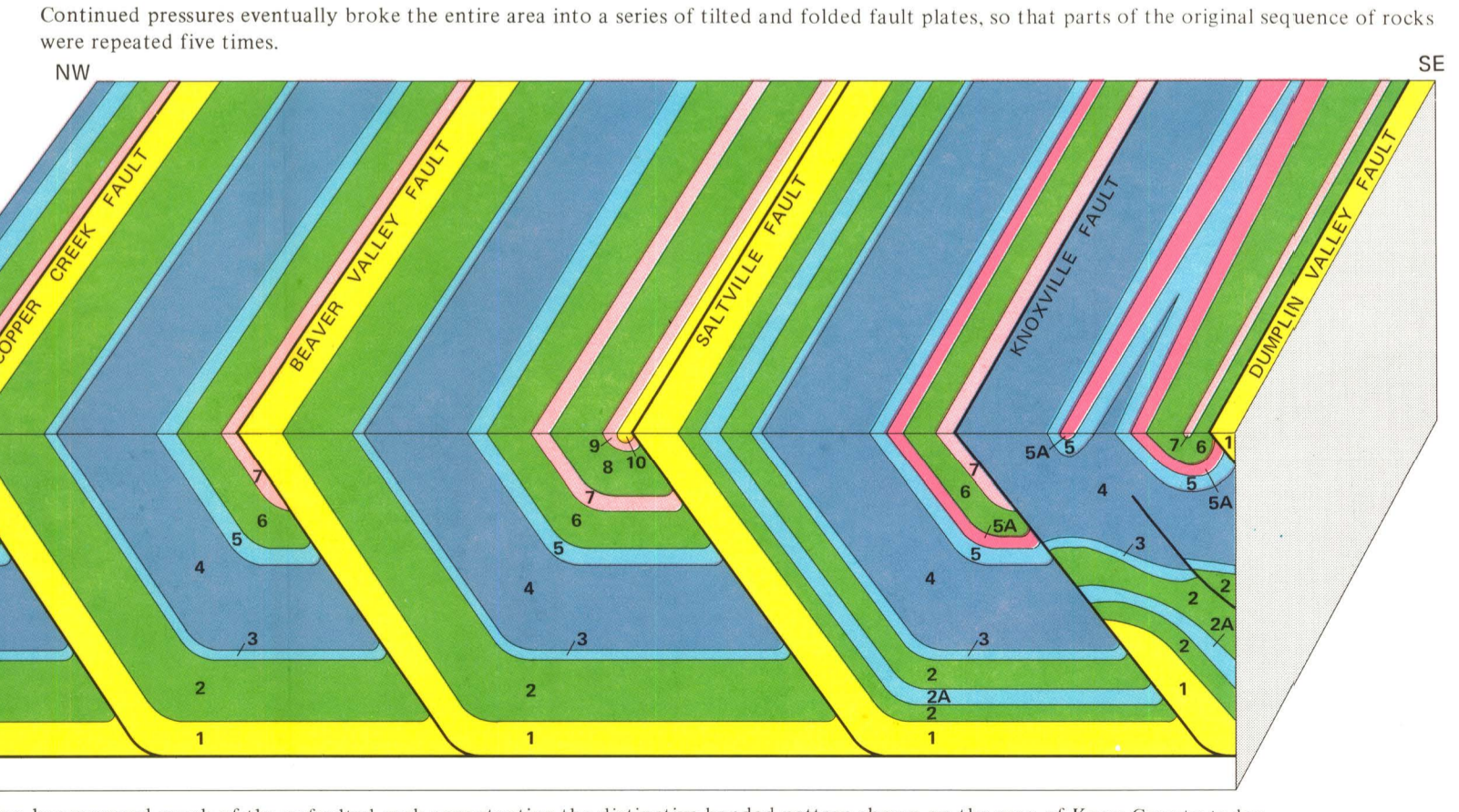
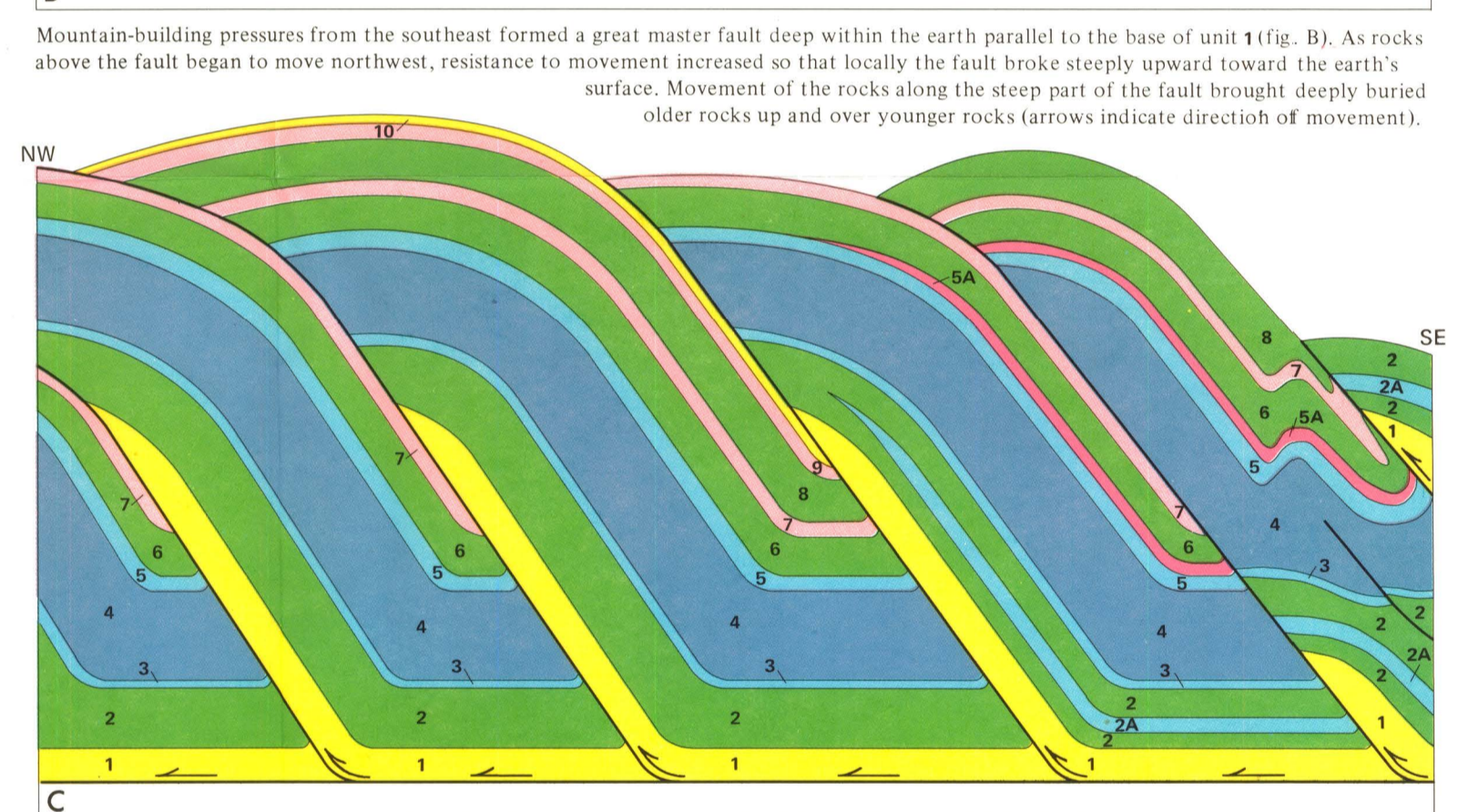
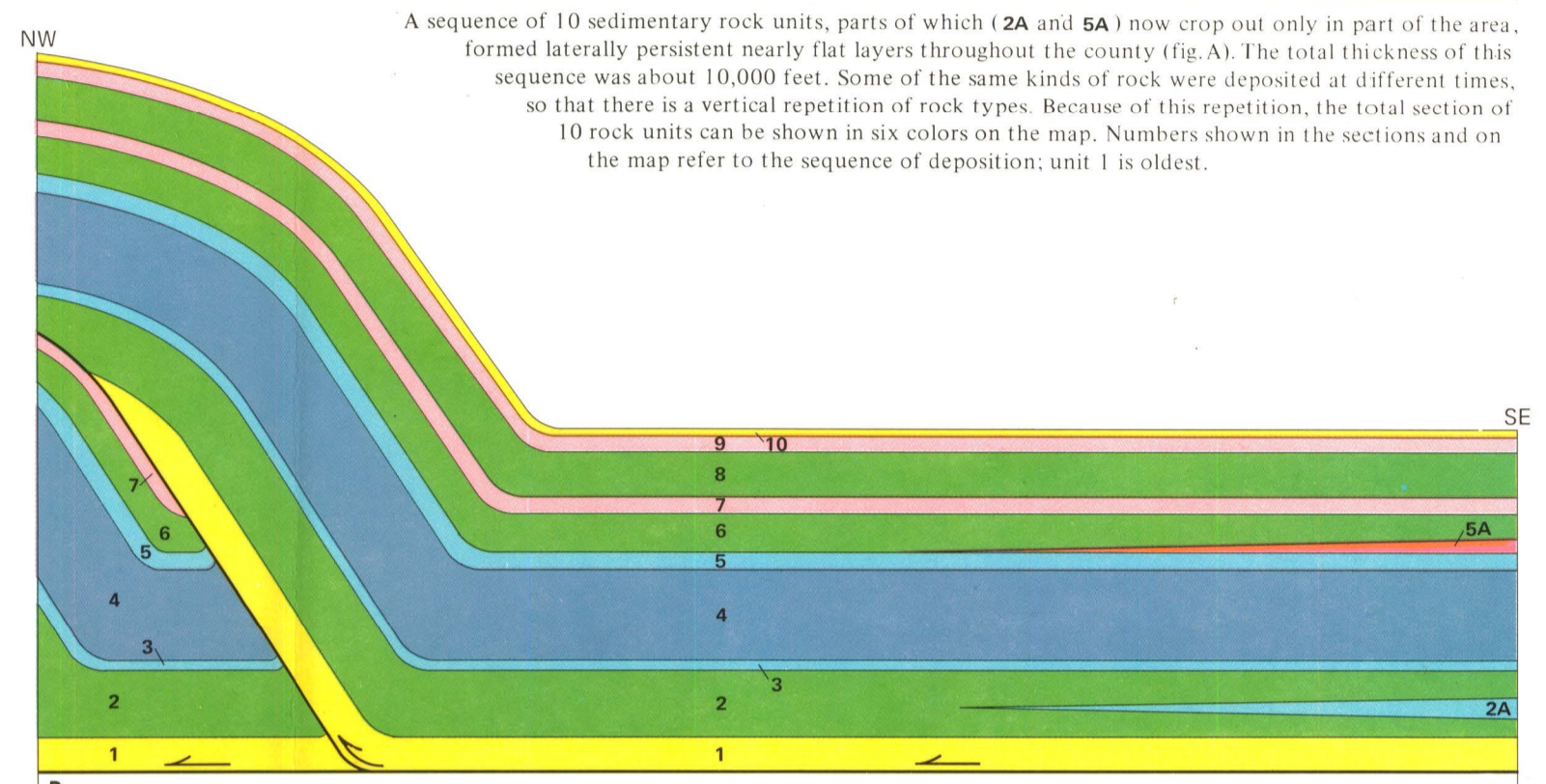
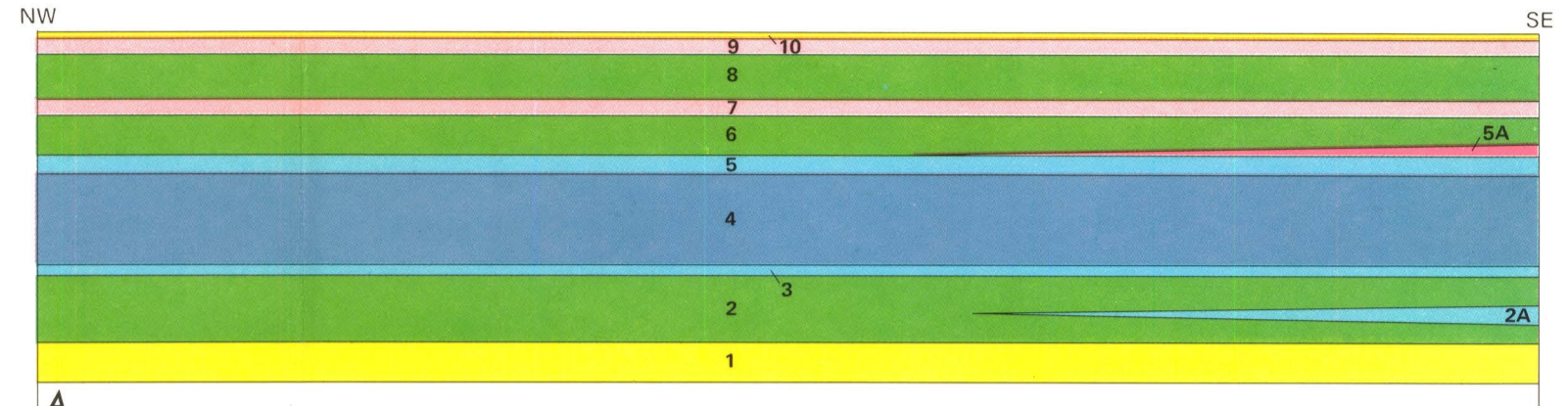


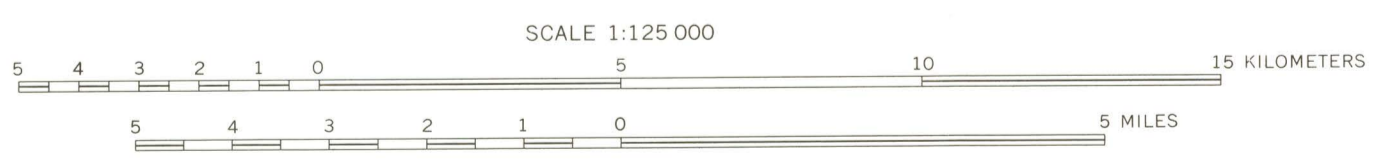
DISTRIBUTION OF ROCKS IN KNOX COUNTY

All the rocks in Knox County were originally sediments deposited in the ocean layer by layer. These layers of sediment gradually hardened into rock. At present, these layers of rock appear on the map as northeast-trending bands of varying widths. Many bands are repeated again and again from northwest to southeast. Different layers of the same kind of rock in different parts of the county appear to be unrelated. However, on the basis of years of work in east Tennessee, geologists have determined that these layers were once part of the same layer and that the repetitions were caused by mountain-building processes operating after the sediments were hardened into rock. Movement of rocks along major breaks (faults) and associated folding, accompanying the mountain-building process, have caused the same sequence of rocks to be repeated five times within the county (diagrammatically shown in figs. A to D). More than 200 million years have passed since the time of mountain building and there has been no further major movement of rocks along faults in Knox County. Therefore today there is little danger in building near these faults.



Since then, erosion has removed much of the upfaulted rock accentuating the distinctive banded pattern shown on the map of Knox County today.

Base from U.S. Geological Survey, 1:250 000, Chattanooga, Corbin, 1965; Johnson City, Knoxville, 1966



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DISTRIBUTION OF SEDIMENTARY ROCKS IN KNOX COUNTY, TENNESSEE

By
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1972