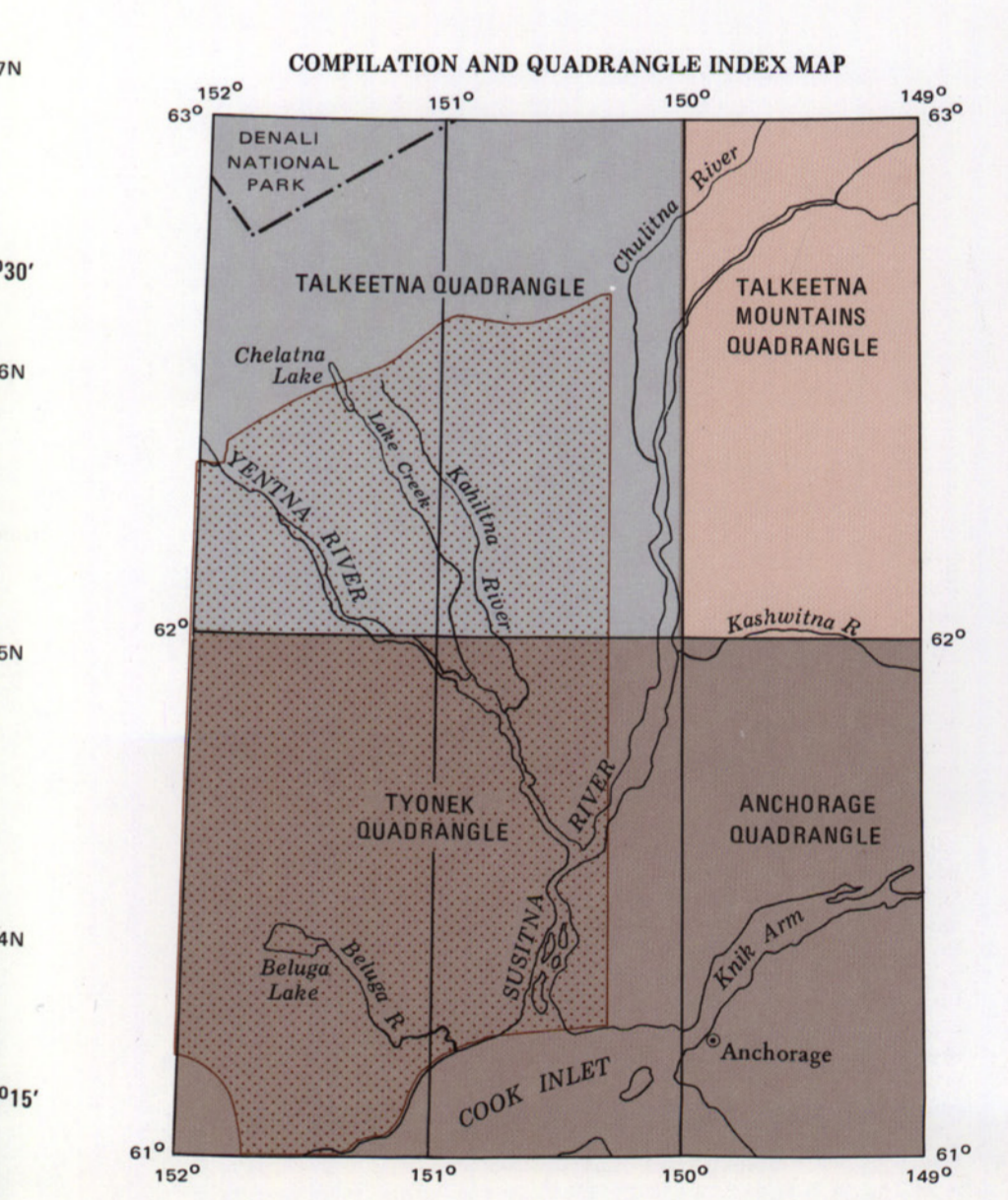


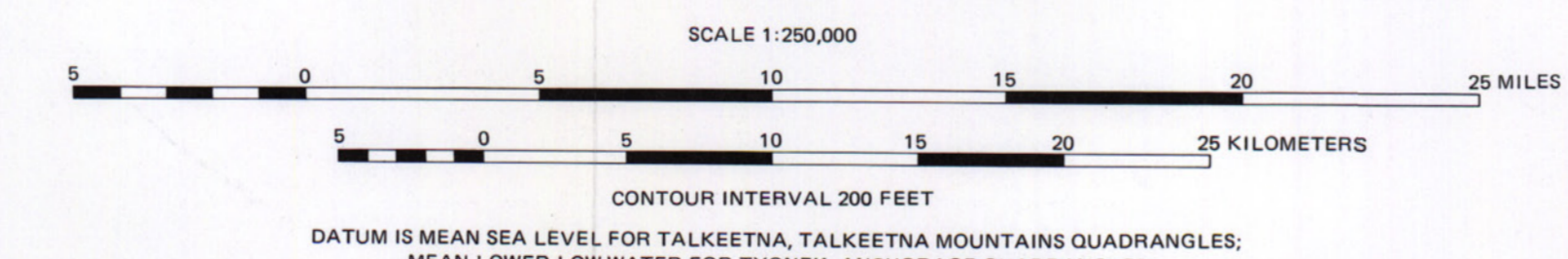
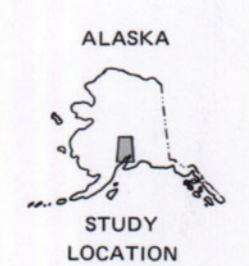
- ### DESCRIPTION OF MAP UNITS*
- (Coal-bearing formations and other sedimentary rock)
- KENAI GROUP - Undivided.**
 - STERLING(?) FORMATION** - Sandstone, siltstone, and thin coal beds.
 - BELUGA FORMATION** - Sandstone, siltstone, and coal.
 - TYONEK FORMATION** - Undivided - Sandstone, siltstone, coal, conglomerate, claystone, and shale.
 - TYONEK(?) FORMATION** - Sandstone member - Predominantly sandstone, siltstone, and claystone with minor conglomerate and coal.
 - TYONEK(?) FORMATION** - Conglomerate member - Conglomerate, sandstone, siltstone, claystone, and coal.
 - TSADAKA FORMATION** - Conglomerate, sandstone, and siltstone.
 - WEST FORELAND FORMATION** - Conglomerate, sandstone, and siltstone.
 - WISHBONE FORMATION** - Conglomerate, sandstone, and siltstone.
 - ARKOSE RIDGE FORMATION** - Arkose, conglomerate, and shale.
 - CHICKALOON FORMATION** - Claystone, siltstone, sandstone, coal, and conglomerate.
 - MATANUSKA FORMATION** - Siltstone, sandstone, and conglomerate.
- *See text for more detailed description of units.

- ### MAP SYMBOLS
- Contact of coal-bearing or other sedimentary unit.
 - Fault - Long-dashed where approximately located, short-dashed where inferred, dotted where concealed. U, upthrown side; D, downthrown side. Arrows indicate direction of relative lateral movement.
 - Thrust fault - Dashed where inferred, dotted where concealed, quartered where probable; sawtooth on upper plate.
 - Anticline - Showing axial trace; dashed where approximately located.
 - Syncline - Showing axial trace and direction of plunge; dashed where approximately located.
 - Strike and dip of beds
 - Horizontal
 - Inclined
 - Overtured
 - Based on distant observation
 - Coal locale: see appendices A and B (coal-locality descriptions obtained during 1981 fieldwork by author and assistant, Jonathan Sperber).



- ### COMPILATION SOURCES
- Barnes, F.F., 1966. Geologic map of Beluga-Tyonek region, Alaska, in Geology and coal resources of the Beluga-Tyonek region, Alaska: U.S. Geological Survey Bulletin 1202-C, 64 p., scale 1:250,000.
 - Caskey, Bob, Jr., Nelson, W.H., Jones, D.J., Silberling, N.J., Dean, R.M., Morris, M.S., Langhew, M.A., Smith, J.G., and Silberman, M.L., 1978. Reconnaissance geologic map and geochronology, Talkeetna Mountains Quadrangle, northern part of Anchorage Quadrangle, and southwest corner of Healy Quadrangle: U.S. Geological Survey Open-File Report 78-35A, scale 1:250,000.
 - Magoon, L.B., Adkison, W.L., and Eibert, R.M., 1976. Map showing geology, wildcat wells, Tertiary plant-fossil localities, K-Ar age dates, and petroleum operations, Cook Inlet area, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I-1019, scale 1:250,000.
 - Reed, B.L., and Nelson, S.W., 1980. Geologic map of the Talkeetna Quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I-1174, scale 1:250,000.

Base from U.S. Geological Survey, Anchorage (1962, rev. 1979), Talkeetna (1968, rev. 1967), Talkeetna Mountains (1964, rev. 1977), and Tyonek (1966, rev. 1974) Quadrangles, Alaska.



COAL-GEOLGY AND STRUCTURE MAP OF THE SUSITNA LOWLAND, SOUTH-CENTRAL ALASKA
 compiled by
R.D. Merritt
 1983

Cartography by K.S. Pearson