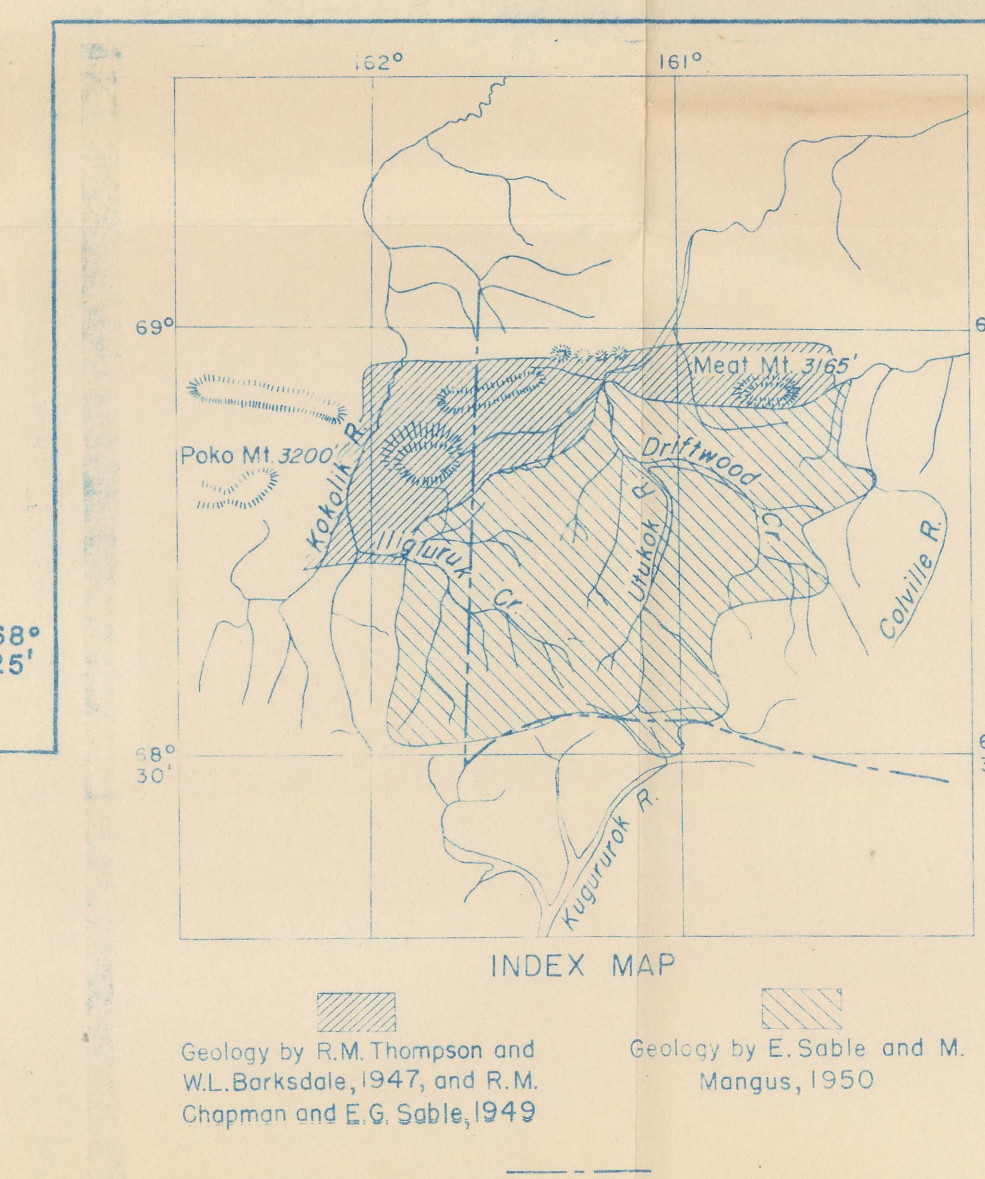


- EXPLANATION**
- SEDIMENTARY ROCKS**
- Knd Nonushuk group, zones D-E undifferentiated
 - Knb Nonushuk group, zones B-C undifferentiated
 - Kta Torok formation, zone A
 - Kts Torok formation, siltstone and shale unit
 - Ktic Torok formation, conglomerate unit
 - Kto Lower Cretaceous undifferentiated
 - Ko Okpikruak formation
 - Cl Shublik formation
 - Clw Lisburne limestone, undifferentiated
 - Clw Lisburne limestone, lower lithologic unit
- IGNEOUS ROCKS**
- Ir Mafic igneous rock
- Geological Features**
- - - - - Inferred geologic contact
 - - - - - Approximate location of geologic contact
 - - - - - Probable fault
 - - - - - Fault, showing relative movement
 - - - - - High-angle fault, U, upthrown side, D, downthrown side
 - - - - - Reverse fault, saw teeth on upper side of plate
 - - - - - Axis of anticline, showing direction of plunge; dashed where approximately located
 - - - - - Axis of syncline, showing direction of plunge; dashed where approximately located
 - - - - - Axis of overturned anticline, showing plunge
 - - - - - Minor syncline and anticline, showing plunge
 - - - - - Plunge of fold axis
 - - - - - Strike and dip of beds
 - - - - - Strike and dip of overturned beds
 - - - - - Strike of vertical beds
 - - - - - Horizontal beds
 - - - - - Contorted bedding
 - - - - - Strike and dip of beds, photo interpretation
 - - - - - Approximate location of measured sections

Base compiled by U.S. Geological Survey and Arctic Contractors

GEOLOGIC MAP OF THE UPPER UTUKOK-KOKOLIK RIVERS AREA, NORTHERN ALASKA

By Edward G. Sable and Marvin D. Mangus
1950



Geology by R.M. Thompson and W.L. Barksdale, 1947, and R.M. Chapman and E.G. Sable, 1949
Geology by E. Sable and M. Mangus, 1950
NPR. no. 4 boundary