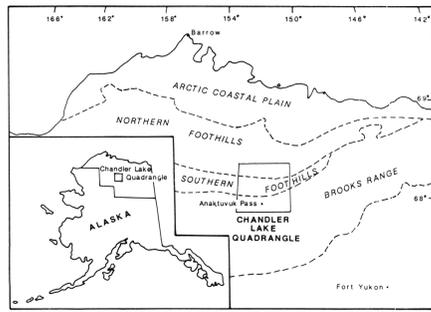
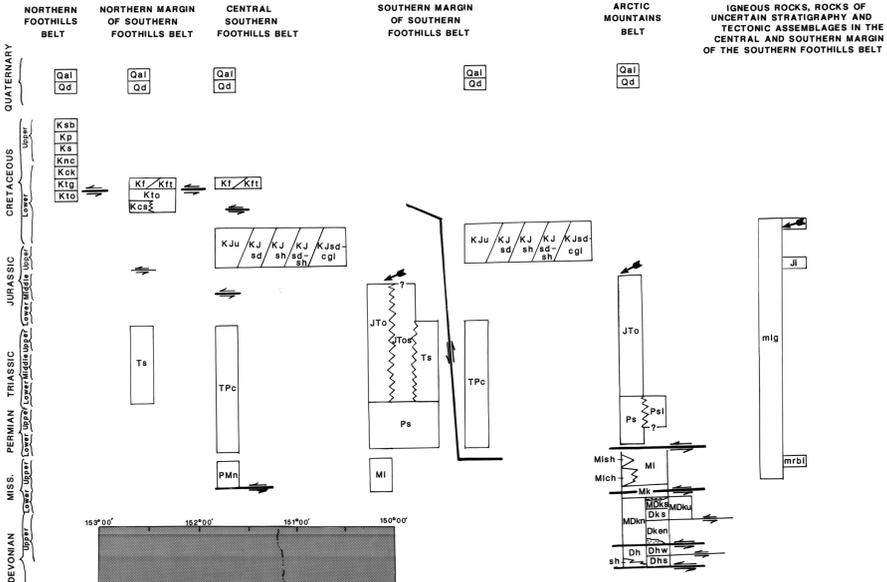


LOCATION MAP



Index map showing location of Chandler Lake quadrangle relative to Alaska and physiography of northern Alaska (modified from Wahrhaftig, 1965)

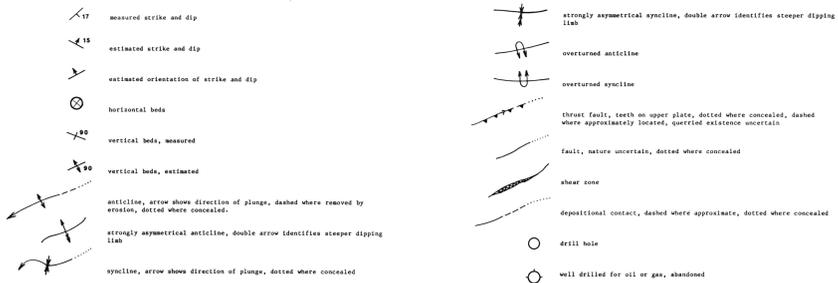
CORRELATION OF MAP UNITS



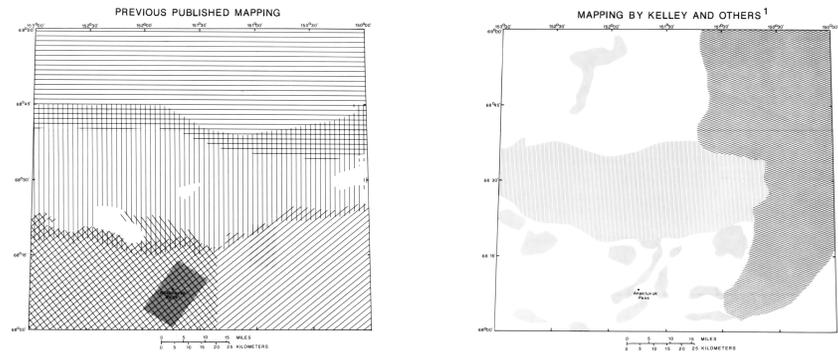
Correlation of map units shows time-stratigraphic correlation of 5 discrete and areally restricted rock assemblages. The assemblages occur in east-west trending belts that correspond to 3 regional physiographic belts, Northern Foothills, Southern Foothills, and Arctic Mountains Belts of Wahrhaftig (1965) (see Location Map); single assemblages underlie the Northern Foothills and Arctic Mountains Belts and 3 assemblages underlie the Southern Foothills Belt.

Although structural relations between assemblages are not well exposed, the correlation diagram shows observable and reasonably inferable structural relations, facies transitions, and litho-stratigraphic sequences. The diagram shows location of décollements and overthrust relations. Extensive décollements correspond to the more bold shear symbols whereas smaller symbols correspond to less extensive décollements.

MAP SYMBOLS



SOURCES OF MAPPING



Howler, A.L. and Duto, J.T., Jr., 1957, The Paleozoic section in the Shatoh Lake area, central Brooks Range, Alaska. U.S. Geological Survey Professional Paper 303-A, p. 1-39.

Brough, W.F., Baker, R.V., Metz, J.T., Jr., and Hilson, T.W., 1979, Geologic map of Devonian rocks in parts of the Chandler Lake and Millin River quadrangles, Alaska. U.S. Geological Survey Open-File Report 79-124, scale 1:125,000, 1 sheet.

Brough, W.F., Baker, R.V., Metz, J.T., Jr., and Hilson, T.W., 1980, Geologic map of the Millin-River region, Brooks Range, Alaska. U.S. Geological Survey Open-File Report 80-121, scale 1:125,000, 1 sheet.

Helmreich, H.L., Nicksa, S.G., and Gray, George, 1963, Geology of the Chandler River region, Alaska. U.S. Geological Survey Professional Paper 303-B, p. 223-226.

Patton, W.V., and Dillner, J.L., 1964, Geology of the Killik-Iktilik region, Alaska. U.S. Geological Survey Professional Paper 303-C, p. 109-200.

Porter, S.C., 1962, Geology of Anaktuvuk Pass, central Brooks Range, Alaska. Final Report, Arctic Institute of North America Subcontract No. 088-240 and 088-244, 276 p., 3 pl.

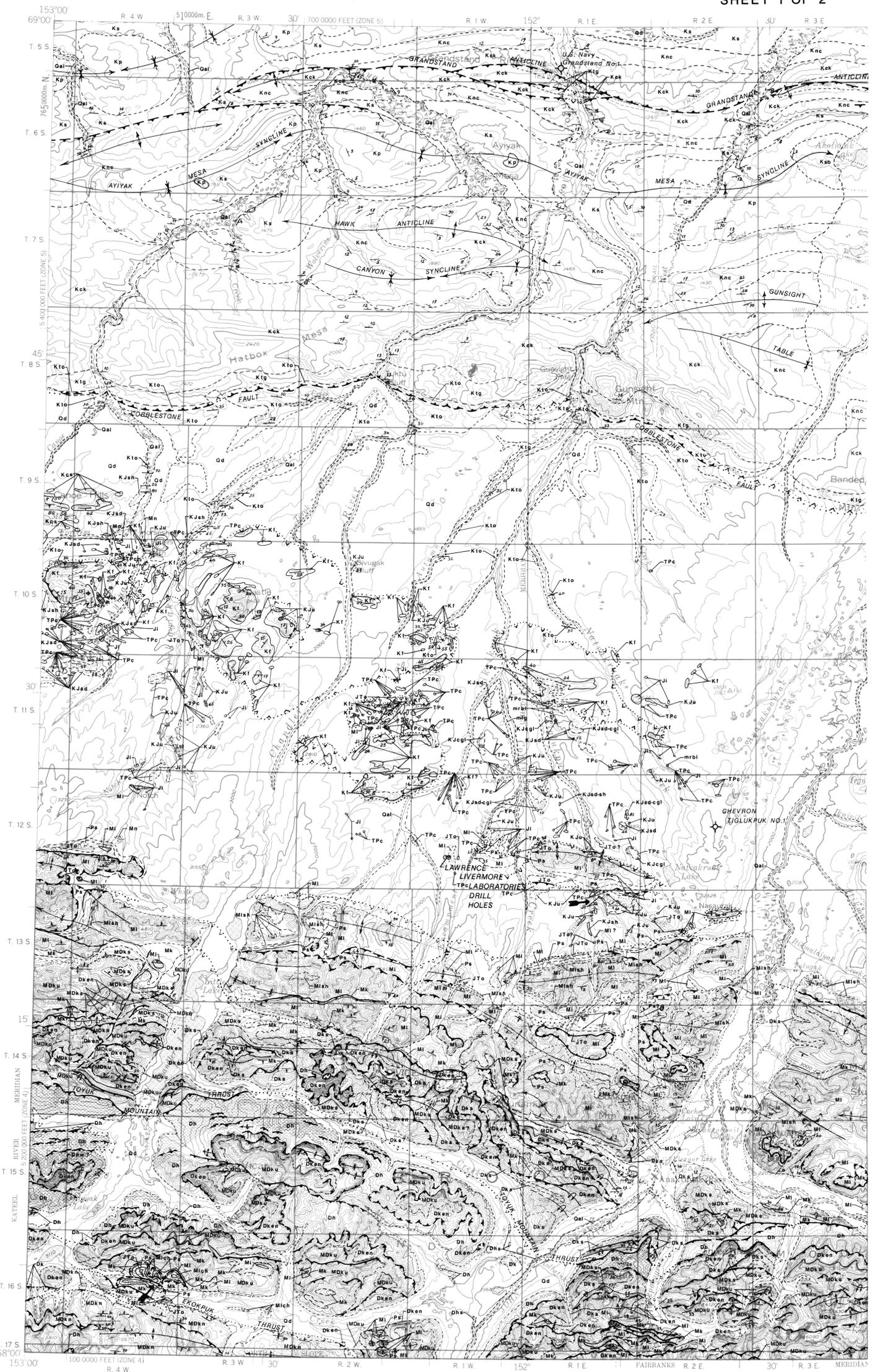
Porter, S.C., 1966, Stratigraphy and deformation of Paleozoic section at Anaktuvuk Pass, central Brooks Range, Alaska. American Association of Petroleum Geologists Bulletin, v. 50, no. 7, p. 952-966.

Geology mapped on color infrared aerial photographs at 1:60,000, transferred to topographic base maps at 1:125,000 with a Kern Plot across plotting instrument, and abstracted and transferred to this base map.

Geology mapped on black and white aerial photographs at 1:120,000 and transferred by inspection to this base map.

Geology observed at scattered field stations, where foot traverses, and helicopter observations.

Geology interpolated from published sources, aerial photographs, geology in areas more thoroughly investigated, and scattered helicopter observations.



Base from U.S. Geological Survey Chandler Lake 1:250,000 quadrangle, 1956 with limited revisions, 1983

1959 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET RANGES FROM 2° TO 29°30' EAST

SCALE 1:125,000  
200 FOOT contour interval

WEST HALF  
PRELIMINARY GEOLOGIC MAP OF THE CHANDLER LAKE QUADRANGLE, ALASKA  
BY J.S. KELLEY 1988

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.