EXPLANATION

Where two stratigraphic units may be present or where two stratigraphic units intertongue the area is colored for the dominant or thicker unit and the symbol of the minor unit is omitted. The symbol of the dominant unit is shown and the symbol of the minor unit is queried and placed in parentheses. Where two stratigraphic units intertongue the color and symbol of the thicker unit is shown and the symbol of the thinner unit is placed in parentheses

SURFICIAL DEPOSITS

QUATERNARY

Recent

Qal — Alluvium
Flood-plain deposits; gravel, sand, silt, and peat; low river terraces included

Pleistocene

Ql — Loess deposit
Bedded dark-gray to brown silt, overlying terrace deposits in northern part of region

Qt — Terrace deposit
High-level terrace gravel, sand, and silt, buff colored; in part glacial outwash

Qgl — Glacial deposits
Till and some outwash gravel. Ski10k glaciation, fresh knob and kettle topography, Qgl1. Amalikrack glaciation, extensively weathered knob and kettle topography, Qgl2

Qg — Gubik formation
Buff to yellow-red sand and gravel in northern part of region

REGIONAL UNCONFORMITY

SEDIMENTARY ROCKS

CRETACEOUS

Upper Cretaceous

SOUTHERN PART OF MAPPED AREA

Ksb / **Ksr** — Schrader Bluff formation
Barrow Trail member, sandstone, siltstone, shale, and tuff, Ksb; Rogers Creek member, shale, Ksr

Kpt — Prince Creek formation
Tuluvak tongue, sandstone, conglomerate, shale, coal, and bentonite

Ks / **Kss** — Seabee formation
Agiapik member, shale, siltstone, and shale, Ks; Shale Wall member, gray clay shale, black paper shale, minor limestone, and bentonite, Kss

NORTHERN PART OF MAPPED AREA

Kpn — Prince Creek formation
Kogosukruk tongue, poorly consolidated sandstone, conglomerate, shale, and coal. Intertongues with Sentinel Hill member of Schrader Bluff formation

Ksn / **Ksb** / **Ksr** — Schrader Bluff formation
Sentinel Hill member, poorly consolidated gray siltstone, shale, tuff, and bentonite, Ksn; Barrow Trail member, sandstone, siltstone, shale, limestone, and tuff, Ksb; Rogers Creek member, partly exposed, dominantly shale, Ksr

Kpt — Prince Creek formation
Tuluvak tongue, conglomerate, sandstone, shale, coal, and bentonite

Ks / **Kss** — Seabee formation
Agiapik member, shale, siltstone, sandstone, and shale, Ks; Shale Wall member, gray clay shale, black paper shale, minor limestone, and bentonite, Kss

Kcg — Colville group, undifferentiated

REGIONAL UNCONFORMITY

Upper Cretaceous

SOUTHERN PART OF MAPPED AREA

Kcc — Chandler formation
Nuiqsut tongue, yellow-red sandstone, siltstone, conglomerate, shale, and coal

Kn — Ninuluk formation
Sandstone, conglomerate, siltstone and shale

Kch / **Kcq** / **Kcs** — Chandler formation
Killik tongue, Kch, upper part, conglomerate, sandstone, siltstone, shale, and coal; Kcq, lower part, sandstone, shale, and coal; Kcs

Lower Cretaceous

Kcc — Chandler formation
Killik tongue, yellow-red sandstone, conglomerate, shale, and coal; Nuiqsut tongue, Kcc. Intertongues with Ninuluk formation

Kg — Grandstand formation
Sandstone, siltstone, and shale. Intertongues with Killik tongue

Ktu — Tuktu formation
Greenish sandstone, siltstone, and shale

Ktok / **Kt** — Tonsk formation
Gray shale, gray-green sandstone, and siltstone, Kt

Kfm — Fortress Mountain formation
Gray-green sandstone, siltstone, and shale, Kfm, assumed in part equivalent to Tonsk formation

NORTHERN PART OF MAPPED AREA

Kcc — Chandler formation
Nuiqsut tongue, yellow-red sandstone, conglomerate, shale, coal, and bentonite. Intertongues with Ninuluk formation

Kn — Ninuluk formation
Sandstone, siltstone, shale, and minor limestone

Kch — Chandler formation
Killik tongue, yellow-red sandstone, conglomerate, shale, and coal; Nuiqsut tongue, Kcc. Intertongues with Ninuluk formation

Kg — Grandstand formation
Sandstone, siltstone, and shale. Intertongues with Killik tongue

Ktu — Tuktu formation
Greenish-gray sandstone, siltstone, and shale

Knsg — Nanushuk group, undifferentiated

CRETACEOUS

Geology by R. L. Detterman, R. S. Bickel, George Gryc, E. J. Webber, D. E. Mathewson, W. W. Patton, Jr., Karl Stefansson, R. E. Fellows, R. M. Chapman, C. T. Bressler, L. A. Warner, and C. E. Kirschner, 1944–53

GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE CHANDLER RIVER REGION, ALASKA

SCALE 1:125 000

2 1 0 2 4 6 MILES

DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—70189