EXPLANATION

Where two stratigraphic units may be present or where two stratigraphic units are mapped as one, 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 intermingle 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**
Subdued 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

Qd — **Glacial deposits**
Till and some outwash gravel. Bullfish glaciation, fresh knob and kettle topography; Qg1, Knobtrench glaciation, extensively weathered knob and kettle topography; Qg2

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

Kub — **Schrader Bluff formation**
Barrow Trail member, sandstone, silt and shale, Kbt; Barrow Creek member, shale, Kbc

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

Ksn — **Seabee formation**
Asphalt member, siltstone, sandstone, and shale, Ksa; Shale Wall member, shale and siltstone, Ksw; Jeremiah member, sandstone, and bentonite, Ksj

NORTHERN PART OF MAPPED AREA

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

Kub — **Schrader Bluff formation**
Sentinel Hill member, poorly consolidated deep siltstone, shale, tuff, and bentonite, Ksh; Barrow Trail member, sandstone, siltstone, shale, limestone, and tuff, and Barrow Creek member, poorly exposed, dominantly shale, Kbc

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

Ksn — **Seabee formation**
Asphalt member, siltstone, sandstone, and shale, Ksa; Shale Wall member, shale and siltstone, Ksw; Jeremiah member, sandstone, and bentonite, Ksj

Ksg — **Colville group, undifferentiated**

Lower Cretaceous

Kc — **Colville group, undifferentiated**

REGIONAL UNCONFORMITY

Upper Cretaceous

SOUTHERN PART OF MAPPED AREA

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

Kn — **Ninuluk formation**
Sandstone, conglomerate, siltstone and shale

Kch — **Chandler formation**
Killik tongue, Kch, upper part, conglomerate, yellow-red sandstone, shale, and coal, Kch; lower part, sandstone, shale, and coal, Kch

Kku — **Tuktu formation**
Greenish sandstone, siltstone, and shale

Kt — **Tuluk formation**
Gray shale, graywacke sandstone, and siltstone, Kt

Fortress Mountain formation
Conglomerate, sandstone, siltstone, and shale, Kfm; may be in part equivalent to Tuluk formation

NORTHERN PART OF MAPPED AREA

Kch — **Chandler formation**
Nuiqsut tongue, yellow-red sandstone, siltstone, conglomerate, shale, and coal. Interfingers with Ninuluk formation

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

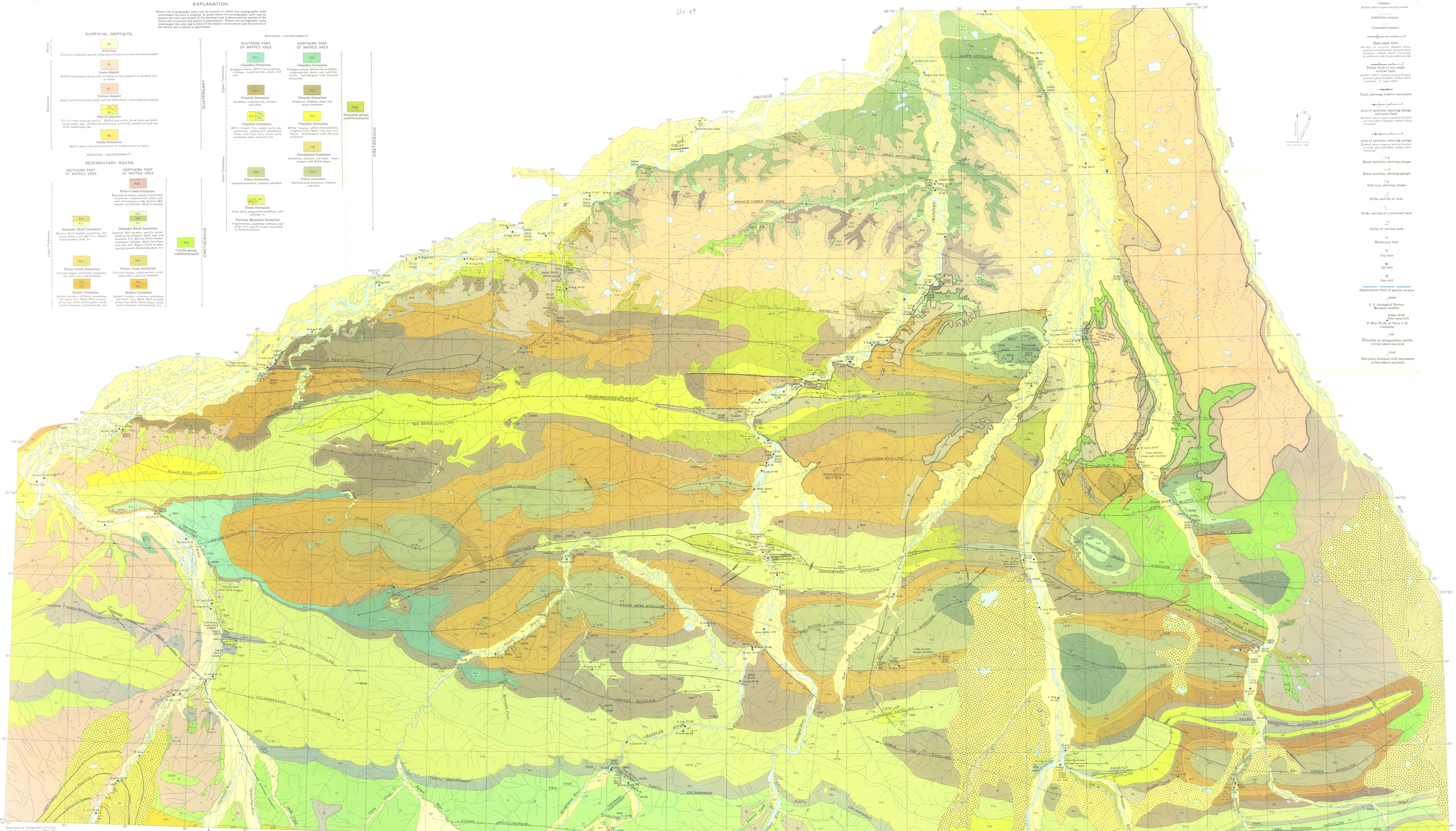
Kch — **Chandler formation**
Killik tongue, yellow-red sandstone, conglomerate, shale, coal, and bentonite. Interfingers with Ninuluk formation

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

Kku — **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

Symbols

Contact
Dashed where approximately located

Indefinite contact

Concealed contact

High angle fault
Normal or reverse; dashed where approximately located, queried where doubtful; dotted where concealed. U, upthrown side; D, downthrown side

Thrust fault or low angle reverse fault
Dashed where approximately located, queried where doubtful; dotted where concealed. T, upper plate

Fault, showing relative movement

Axis of anticline, showing plunge and axial fault
Dashed where approximately located, queried where doubtful; dotted where concealed

Axis of syncline, showing plunge
Dashed where approximately located, queried where doubtful; dotted where concealed

Minor anticline, showing plunge

Minor syncline, showing plunge

Fold axis, showing plunge

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Horizontal beds

Dry hole

Oil well

Gas well

Approximate limit of glacial erratics

26534
U. S. Geological Survey Megafossil locality

D-May 26-46
Navy camp 5-45
D-May 26-46, or Navy 5-45
Campsite

709
Elevation at triangulation station in feet above sea level

1242
Elevation obtained with barometer in feet above sea level

APPROXIMATE MEAN DECLINATION, 1962

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

SCALE 1:125 000

DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1959