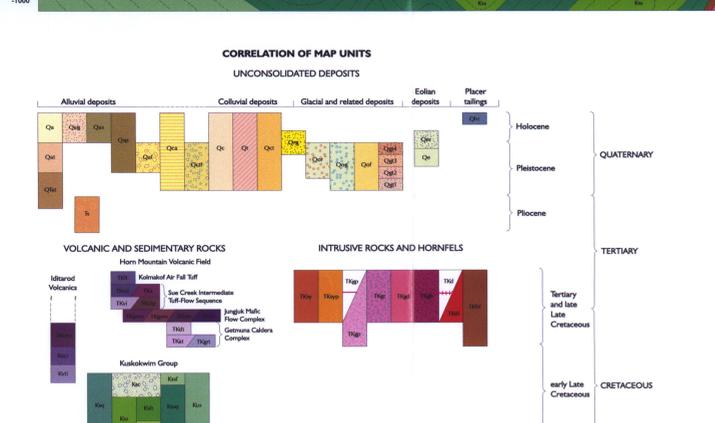
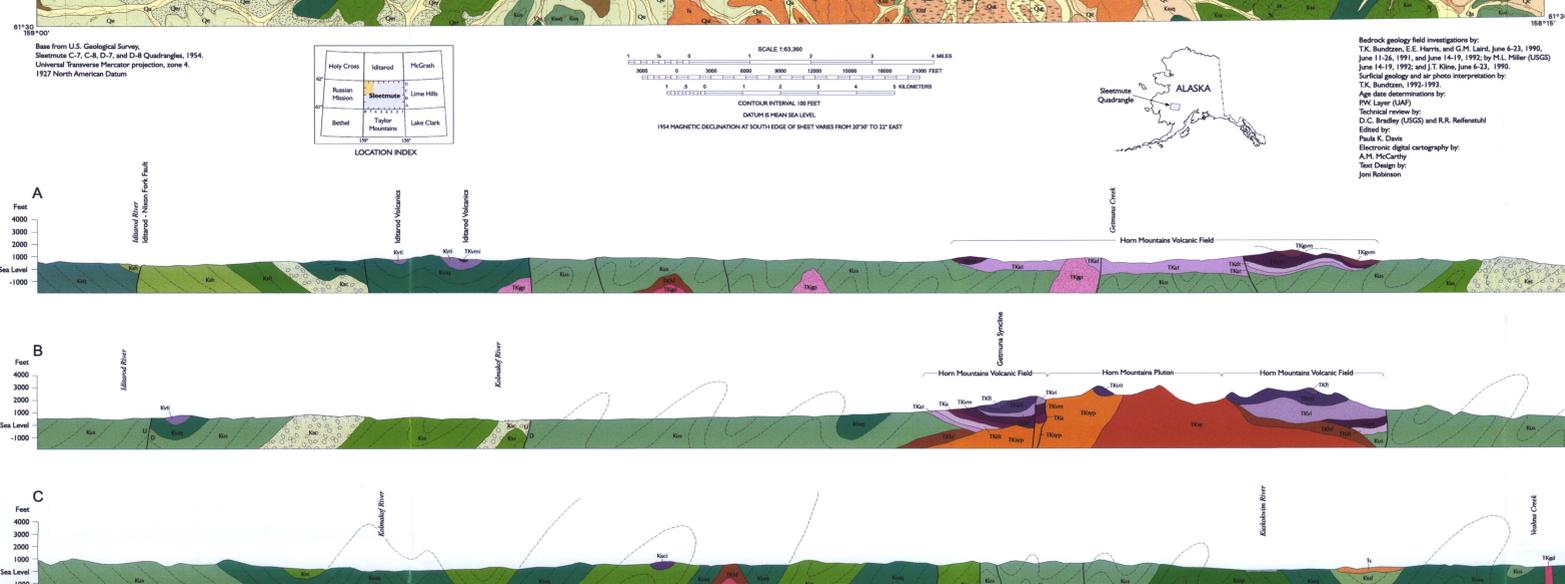




- DESCRIPTION OF MAP UNITS**
 See text for complete descriptions of map units
- UNCONSOLIDATED DEPOSITS**
- Alluvial Deposits**
- Qa Sandy flood-plain alluvium
 - Qcg Coarse-grained, gravel-rich alluvium
 - Qch Flood-plain alluvium including extensive overbank deposits
 - Qsp Silt and peat
 - Qaf Alluvial fan deposits
 - Qyt Youthful terrace alluvium
 - Qot Older terrace alluvium
 - h Holokuk gravel
- Colluvial Deposits**
- Qca Colluvial-alluvial fan deposits
 - Qct Fan and terrace deposits
 - Qc Undifferentiated colluvial deposits
 - Qk Taka cones
 - Qcl Coarse colluvium
- Glacial and Related Deposits**
- Qgl Rock glacier deposits
 - Qgr Reworked outwash
 - Qog Outwash gravel
 - Qof Outwash fan deposits
 - Qge Till of Crater Mountain Glaciation (early Holocene age)
 - Qglc Till of Tolstoi Lake Glaciation (late Wisconsin age)
 - Qglp Till of Bilurucan Creek Glaciation (early Wisconsin or Illinoian age)
 - Qglb Till of Beaver Creek Glaciation (pre-Wisconsin age)
- Eolian Deposits**
- Qer Reworked loess deposits
 - Qe Loess
- Placer Tailings**
- Qpl Placer mine tailings
- INTRUSIVE ROCKS AND HORNFELS**
- Tgs Granodiorite, granite, and quartz syenite
 - Tgp Granodiorite porphyry, quartz syenite, and minor granite
 - Tgr Peralkaline granite porphyry and alkali quartz granite
 - Tgr Granite
 - Tgd Quartz monzodiorite and diabase
 - Tgd Gabbro-diorite and quartz diorite
 - Tkd Dikes and dike swarms, undifferentiated
 - Tki Intermediate dikes and dike swarms
 - Tkf Hornfels
- VOLCANIC AND SEDIMENTARY ROCKS**
- Horn Mountains Volcanic Field (this study)**
- Kelmakof Air-Fall Tuff**
- Kat Rhyolite and latite tuff
- Sua Creek Intermediate Tuff-Flow Sequence**
- Sua Latite and potassic andesite tuffs and flows
 - Sua Nonporphyritic andesite flows
 - Sua Latite and potassic andesite flows
 - Sua Highly porphyritic andesite flows and subordinate tuff
- Junglik Mafic Flow Complex**
- Jmf Porphyritic basaltic andesite
 - Jmf Geoide-rich basaltic andesite and agglomerate
 - Jmf Basaltic andesite flows
 - Jmf Viscous andesite flows
- Getmuna Caldera Complex**
- Get High-potassium andesite and latite tuff
 - Get Welded(?) vitric tuff
 - Get Coarse-grained vitric tuff
- Iditarod Volcanics (Miller and Bundtzen, 1988)**
- Ivd Basaltic andesite
 - Ivd Agglomerate, chert, tuff, and sandstone
 - Ivd Altered intermediate tuffs, flows, and sandstone
- Kuskokwim Group (Cady and others, 1955)**
- Kus Quartzose sublitic sandstone and siliceous shale
 - Kus Coarse-grained sandstone and pebble conglomerate
 - Kus Noncalcareous lithic sandstone and shale
 - Kus Limy sandstone and shale
 - Kus Shale and siltstone
 - Kus Quartzite sandstone, shale, and slump breccia
 - Kus Fine-grained sublitic sandstone and siltstone
 - Kus Coarse-grained, proximal turbiditic sandstone and siltstone
 - Kus Undifferentiated sandstone, shale, and siltstone
- MAP SYMBOLS**
- Contact - approximately located
 - High-angle fault - dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side.
 - Anticline - showing trace of axial plane and direction of plunge; dashed where inferred; dotted where concealed.
 - Syncline - showing trace of axial plane and direction of plunge; dashed where inferred; dotted where concealed.
 - Overturned anticline - showing trace of axial plane and direction of plunge; dashed where inferred; dotted where concealed.
 - Overturned syncline - showing trace of axial plane and direction of plunge; dashed where inferred; dotted where concealed.
 - Glacial outwash channel
 - Glacial erratic
 - Strike and dip of beds
 - Inclined
 - Vertical
 - Overturned
 - Strike and dip of cleavage
 - Inclined
 - Vertical
 - Strike and dip of joints
 - Inclined
 - Vertical
 - Strike and dip of foliation
 - Inclined
 - Vertical
 - Bearing of paleocurrent (corrected for tilt; table 1)
 - Fossil locality (from Cady and others, 1955)
 - Major oxide, trace element, and rare earth element determination localities (tables 2 and 5)
 - ⁴⁰Ar/³⁹Ar, K/Ar, and ¹³⁷Cs/¹³⁵Cs ages localities (tables 3, 4, and 6)
 - Geochemical sample localities (table 7)
 - Mine or prospect locality (figure 1 and table 7)



**GEOLOGIC MAP OF THE SLEETMUTE C-7, C-8, D-7, AND D-8 QUADRANGLES,
 HORN MOUNTAINS, SOUTHWESTERN ALASKA**

By
 T.K. Bundtzen,¹ E.E. Harris,² M.L. Miller,³ P.W. Layer,⁴ and G.M. Laird⁵

¹Formerly Alaska Division of Geological & Geophysical Surveys; now with Pacific Rim Geologic Consulting, P.O. Box 81106, Fairbanks, Alaska 99708
²Alaska Division of Geological & Geophysical Surveys, 794 University Ave., Suite 205, Fairbanks, Alaska 99709
³U.S. Geological Survey, 4200 University Drive, Anchorage, Alaska 99508
⁴Department of Geology and Geophysics, University of Alaska, Fairbanks, Alaska 99775
⁵Formerly with Alaska Division of Geological & Geophysical Surveys; now 1651 Lake Street, Fairbanks, Alaska 99709

