



EXPLANATION OF SYMBOLS ON FOSSIL LOCATION MAP
 • 65 Location of fossil collection—Locations 1-30 are approximate; numbers refer to collection listed in Table 1
 B-2 1:63,360 scale (1"= 1 mile) isographic quadrangle

EXPLANATION OF GEOLOGIC BASE MAP

LIST OF MAP UNITS

Quaternary Surficial Deposits

Qu Alluvium (Holocene)
 Qs Terrace deposits (Bokkone and Pleistocene)
 Ql Loess? (Pleistocene)

Tertiary and Cretaceous Sedimentary Rocks

TKs Sandstone, conglomerate, and mudstone (Lower Tertiary and Upper Cretaceous)

Mesozoic Sedimentary Rocks

Kandik Group (Lower Cretaceous)
 Kka Khatul Graywacke (Lower Cretaceous)
 Kks Bickerton Argillite (Lower Cretaceous)
 Kkq Kerevan Quartzite (Lower Cretaceous)
 Kka Argillite (Lower Cretaceous)
 Kjs Green Shale (Lower Cretaceous to Middle Triassic)
 Kju Upper part (Lower Cretaceous and Jurassic)
 Kjl Lower part (Upper and Middle Triassic)

Mesozoic and/or Paleozoic Metamorphic Rocks

Mfpm Metamorphic rocks, undivided (Mesozoic and/or Paleozoic)

Paleozoic Sedimentary Rocks

Pt Takahard Limestone (Permian)
 Ps Soap Conglomerate (Permian)
 Pl Limestone
 PMLs Colville Basin Formation (Lower Permian and Upper Mississippian)
 MDL Ford Lake Shale (Upper Mississippian to Upper Devonian)
 Dnr Nainian River Formation (Upper Devonian)
 Dm McCann Hill Chert (Upper to Lower Devonian)
 Do Ogilvie Formation of Clough (Middle and Lower Devonian)
 DOs Road River Formation (Lower Devonian to Lower Ordovician)
 OCS Jones Ridge Formation (Upper or Middle Ordovician to Lower Cambrian)
 OCh Hillard Limestone (Lower Ordovician to Lower Cambrian)
 Ca Adams Argillite (Lower Cambrian)
 Ct Fannel Creek Limestone (Lower Cambrian)

Cambrian(?) and Precambrian Sedimentary and Igneous Rocks

Tcns Tcns Group (Lower Cambrian to Middle Proterozoic)
 Czu Upper part, undivided (Lower Cambrian? and Late Proterozoic)
 Czn Quartzite (Lower Cambrian? and Late Proterozoic)
 Cza Limestone and quartzite (Lower Cambrian? and Late Proterozoic)
 CZq Quartzite and argillite (Lower Cambrian? and Late Proterozoic)
 CZr Red beds and quartzite (Lower Cambrian? and Late Proterozoic)
 CZb Basalt and sedimentary rocks of Washington Creek (Lower Cambrian? and Late Proterozoic)

Zal Dolomite and limestone (Late Proterozoic)
 Zsl Shale
 Zl Laminated limestone (Late Proterozoic)
 Zls Limestone and conglomeratic rocks (Late Proterozoic)
 Zdo Dolomite (Late Proterozoic)
 Zls Limestone (Late Proterozoic)
 Zbr Basalt and red beds, undivided (Late Proterozoic)
 Zr Red beds
 Zb Basalt
 Zba Basalt and argillite (Late Proterozoic)
 Zbc Basalt and clastic rocks (Late Proterozoic)
 Yul Lower part
 Yuh Shale and diamictite (Middle Proterozoic)
 Yul Stenatonian limestone (Middle Proterozoic)

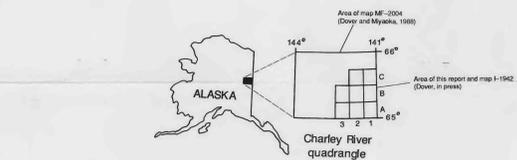
- Contact—Querried where uncertain
- Bedding trace or marker bed
- - - - High-angle fault (including listric normal fault)—Dashed where approximately located; dotted where concealed; queried where uncertain. Bar and ball on downthrown side.
- - - - Thrust fault—Dashed where approximately located; dotted where concealed; queried where uncertain. Sawtooth on upper plate.
- Landslide—Fluctures point into slide mass
- Strike and dip of beds—Ball indicates stratigraphic top as determined from sedimentary features
- Horizontal
- Vertical
- Overtured
- Determined from aerial photographs or estimated from a distance
- Strike and dip of inclined axial plane cleavage
- Strike and dip of inclined metamorphic foliation
- Major fold axis—Shows direction of plunge where known; dotted where concealed
- Anticline
- Overtured anticline
- Syncline
- Overtured syncline
- Minor fold axis—Shows direction of plunge where known
- Anticline
- Syncline
- Overtured
- Crenulations or group of minor folds

REFERENCES CITED

Clough, James G., 1980, Fossil algae in Lower Devonian limestones, east-central Alaska, in Short notes on Alaskan geology, 1979-80: Alaska Division of Geological and Geophysical Survey Geologic Report 63, p. 19-21.

Dover, James H., in press, Geologic map and fold and thrust belt interpretation of the southeastern part of the Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-1942, p. scale 1:100,000.

Dover, James H., and Miyakawa, Ronny T., 1988, Reinterpreted geologic map and fossil data, Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-2004, scale 1:250,000.

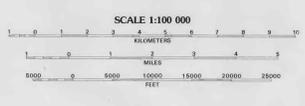


142°30' 65°30'

65°15' B-3 B-2 B-1

65°00' A-3 A-2

Base from U.S. Geological Survey 1:63,360
 Charley River A-1, 2, 3; B-1, 2, 3; C-1, 2, 1956
 Universal Transverse Mercator projection



Geology from Dover, in press
 Manuscript approved for publication, August 13, 1987

FOSSIL LOCALITY MAP AND FOSSIL DATA FOR THE SOUTHEASTERN CHARLEY RIVER QUADRANGLE, EAST-CENTRAL ALASKA

By
 Ronny T. Miyakawa
 1990