



EXPLANATION

Qs Quaternary unconsolidated sediments

NORTH OF BROOKS RANGE

Cretaceous sandstone and shale deposited during and after the major thrusting event

Ku Allochthonous pre-Albian sedimentary rocks and autochthonous Albian and younger sedimentary rocks, undivided

Kn Upper Albian and younger autochthonous rocks of Nanushuk Group

SOUTH OF BROOKS RANGE

Kss Upper and Lower Cretaceous sandstone and shale

KJa Lower Cretaceous and Upper Jurassic(?) andesitic rocks

ALLOCHTHONS AND SEQUENCES

7 Misheguk Mountain allochthon—Composed of the Misheguk igneous sequence: Mostly peridotite and gabbro, remnants of an ophiolite sheet

6 Copter Peak allochthon—Composed of the Copter igneous sequence: Pillow basalt with subordinate intermediate volcanic rocks, chert, and Devonian limestone. May have formed in continental or oceanic setting

5 Nuka Ridge allochthon

5N Bogie sequence

5B Bastille sequence

4 Ipnarik River allochthon

4I Ipnarik sequence

4N Nachralik Pass sequence

4P Puzzle Creek sequence

3 Kelly River allochthon

3E Eli sequence

3K Kelly sequence

3A Amphitheatre sequence

2 Picnic Creek allochthon

2A Amaruk sequence

2W Wulik sequence

2P Picnic sequence

2N Nigu sequence

1 Brooks Range allochthon

1K Key Creek sequence

1I Ivtok sequence

1L Lisburne Hills sequence

Distinctive coeval sequences of Devonian to Lower Cretaceous sedimentary rocks deposited in a continental setting

Allochthon numbers 1–5 without a letter designation mean that the sequence is not conclusively identified. Color on map indicates probable sequence. Uncertain allochthon and sequence designations are queried; vertical ruled pattern indicates that more than one sequence may be present. For example:

(3,4,5) Undesignated sequences in allochthons 3, 4, and (or) 5

(1K,2W) Key Creek sequence of allochthon 1 and (or) Wulik sequence of allochthon 2

SCHWATKA MOUNTAINS PROVINCE

A Schwatka sequence—Partly to completely metamorphosed sedimentary and igneous rocks considered to be autochthonous or parautochthonous. The protolith for these rocks was formed in the Precambrian and Paleozoic. The rocks were regionally metamorphosed during the Cretaceous

Metamorphosed granitic rocks in the Schwatka province

Contact—Dashed where approximately located or inferred

Thrust fault—Dashed where approximately located or inferred. Sawteeth on upper plate

Inferred northern boundary of allochthon 1 in the subsurface

Anticline

Syncline

A A' Line of cross section shown on plate 7.2

ALLOCHTHON MAP OF THE WESTERN BROOKS RANGE, ALASKA