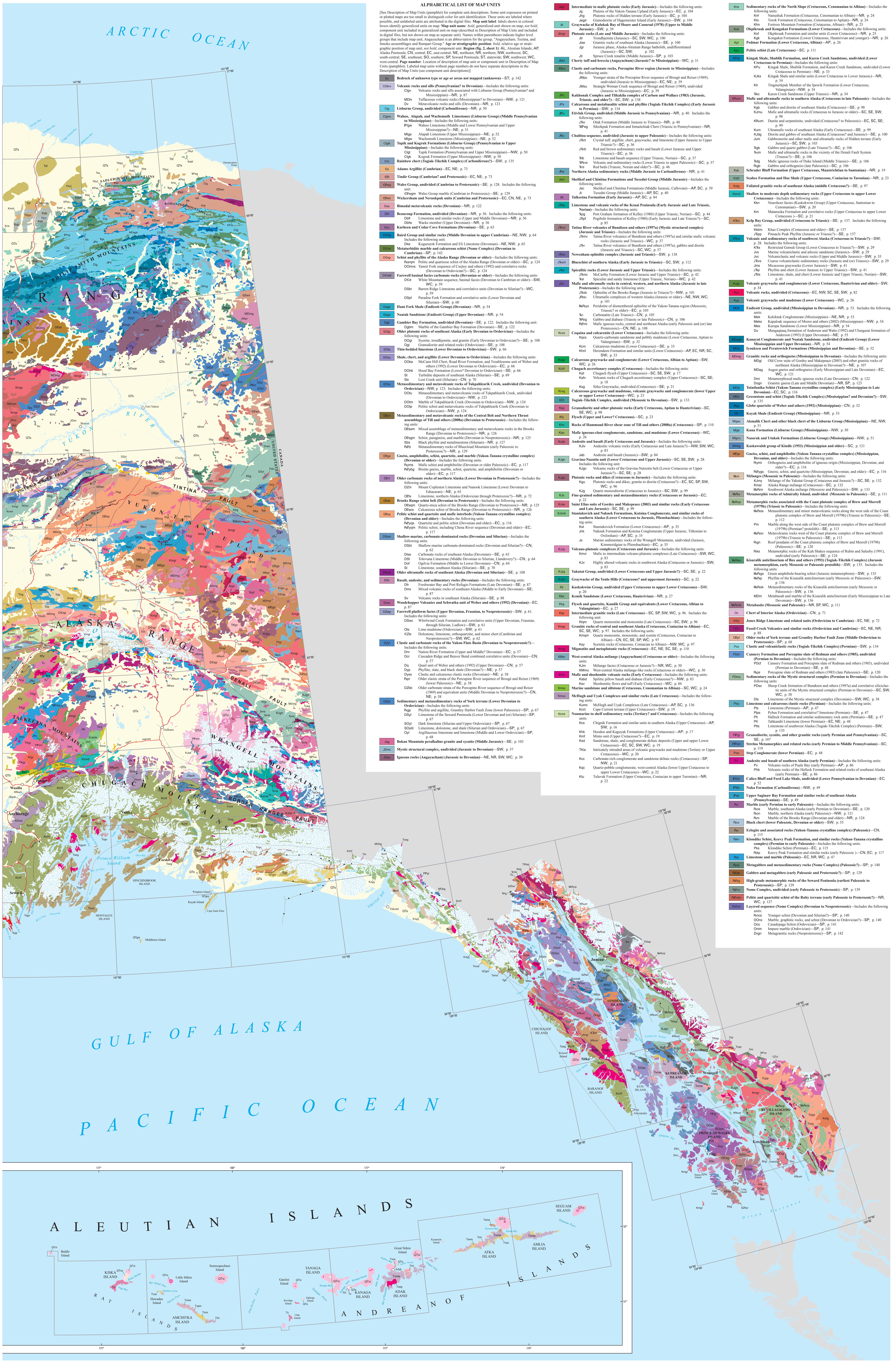

ALPHABETICAL LIST OF MAP UNITS

[See Description of Map Units (pamphlet) for complete unit descriptions. Some unit exposures on printed or plotted maps are too small to distinguish color for unit identification. These units are labeled where possible, and unlabeled units are attributed in the digital files. **Map unit label**: labels shown in colored boxes identify generalized units on map. **Map unit name**: *bold*, generalized unit shown on map; *not bold*, component unit included in generalized unit on map (described in Description of Map Units and included in digital files, but not shown on map as separate unit). Names within parentheses indicate higher level groups that include map unit; Angayucham is an abbreviation for the group, "Angayucham, Tozitna, and Innoko asssemblages and Rampart Group." **Age or stratigraphic position**: *bold*, relative age or stratigraphic position of map unit; *not bold*, component unit. **Region (fig. 2, sheet 1)**: AL, Aleutian Islands; AP, Alaska Peninsula; CN, central; EC, east-central; NE, northeast; NR, northern; NW, northwest; SC, south-central; SE, southeast; SO, southern; SP, Seward Peninsula; ST, statewide; SW, southwest; WC, west-central. **Page number**: Location of description of map unit or component unit in Description of Map Units (pamphlet). Labeled map units without page numbers do not have separate descriptions in the Description of Map Units (see component unit descriptions)]

bu **Bedrock of unknown type or age or areas not mapped (unknown)**—ST; p. 142

CDbrv **Volcanic rocks and sills (Pennsylvanian? to Devonian)**—Includes the following units:
- Clgv Volcanic rocks and sills associated with Lisburne Group (Pennsylvanian? and Mississippian)—NR; p. 87
- MDtv Tuffaceous volcanic rocks (Mississippian? to Devonian)—NW; p. 121
- Dv Metavolcanic rocks and sills (Devonian)—NR; p. 123

Clg **Lisburne Group, undivided (Carboniferous)**—NR; p. 50

Clgne **Wahoo, Alapah, and Wachsmuth Limestones (Lisburne Group) (Middle Pennsylvanian to Mississippian)**—Includes the following units:
- Ꝑlgw Wahoo Limestone (Middle and Lower Pennsylvanian and Upper Mississippian?)—NE; p. 51
- Mlga Alapah Limestone (Upper Mississippian)—NE; p. 52
- Mlgw Wachsmuth Limestone (Mississippian)—NE; p. 52

Clgtk **Tupik and Kogruk Formations (Lisburne Group) (Pennsylvanian to Upper Mississippian)**—Includes the following units:
- Clgt Tupik Formation (Pennsylvanian and Upper Mississippian)—NW; p. 50
- Clgk Kogruk Formation (Upper Mississippian)—NW; p. 50

Crc **Rainbow chert (Togiak-Tikchik Complex) (Carboniferous?)**—SW; p. 135

Ꞓa **Adams Argillite (Cambrian)**—EC, NE; p. 73

ꞒɆt **Tindir Group (Cambrian? and Proterozoic)**—EC, NE; p. 73

ꞒɆwg **Wales Group, undivided (Cambrian to Proterozoic)**—SE; p. 128. Includes the following unit:
- ꞒɆwgm Wales Group marble (Cambrian to Proterozoic)—SE; p. 129

ꞒɆwn **Wickersham and Neruokpuk units (Cambrian and Proterozoic)**—EC, CN, NE; p. 73

Das **Bimodal metavolcanic rocks (Devonian)**—NR; p. 122

Dbf **Beaucoup Formation, undivided (Devonian)**—NR; p. 56. Includes the following units:
- Dbfl Limestone and similar rocks (Upper and Middle Devonian)—NR; p. 56
- Dbfw Wacke member (Upper Devonian)—NR; p. 56

Dcc **Karheen and Cedar Cove Formations (Devonian)**—SE; p. 63

DꞒbg **Baird Group and similar rocks (Middle Devonian to upper Cambrian)**—NE, NW; p. 64 Includes the following unit:
- Dke Kugururok Formation and Eli Limestone (Devonian)—NE, NW; p. 65

DꞒmt **Metaturbidite marble and calcareous schist (Nome Complex) (Devonian to Cambrian)**—SP; p. 142

DꞒsp **Schist and phyllite of the Alaska Range (Devonian or older)**—Includes the following units:
- Ᵽzarqm Pelitic and quartzose schist of the Alaska Range (Devonian or older)—SC; p. 124
- DOmvs Yanert Fork sequence of Csejtey and others (1992) and correlative rocks (Devonian to Ordovician?)—SC; p. 124

DꞒwbl **Farewell basinal facies carbonate rocks (Devonian or older)**—Includes the following units:
- DꞒd White Mountain sequence, basinal facies (Devonian to Cambrian or older)—SW, WC; p. 59
- DSbr Barren Ridge Limestone and correlative units (Devonian to Silurian?)—WC; p. 59
- DSpf Paradise Fork Formation and correlative units (Lower Devonian and Silurian)—SW; p. 60

Degh **Hunt Fork Shale (Endicott Group) (Devonian)**—NR; p. 54

Degn **Noatak Sandstone (Endicott Group) (Upper Devonian)**—NR; p. 54

Dgb **Gambier Bay Formation, undivided (Devonian)**—SE; p. 122. Includes the following unit:
- Dgbm Marble of the Gambier Bay Formation (Devonian)—SE; p. 122

DOgi **Older plutonic rocks of southeast Alaska (Early Devonian to Ordovician)**—Includes the following units:
- DOgi Syenite, trondhjemite, and granite (Early Devonian to Ordovician?)—SE; p. 108
- Ogi Granodiorite and related rocks (Ordovician)—SE; p. 108

DOls **Thin-bedded limestone (Lower Devonian to Ordovician)**—SW; p. 66

DOsc **Shale, chert, and argillite (Lower Devonian to Ordovician)**—Includes the following units:
- DOka McCann Hill Chert, Road River Formation, and Troublesome unit of Weber and others (1992) (Lower Devonian to Ordovician)—EC; p. 66
- DOhb Hood Bay Formation (Lower? Devonian to Ordovician)—SE; p. 66
- St Turbidite deposits of southeast Alaska (Silurian)—SE; p. 69
- Slc Lost Creek unit (Silurian)—CN; p. 70

DOtu **Metasedimentary and metavolcanic rocks of Tukpahlearik Creek, undivided (Devonian to Ordovician)**—NW; p. 123. Includes the following units:
- DOtu Metasedimentary and metavolcanic rocks of Tukpahlearik Creek, undivided (Devonian to Ordovician)—NW; p. 123
- DOtm Marble of Tukpahlearik Creek (Devonian to Ordovician)—NW; p. 124
- DOtp Pelitic schist and metavolcanic rocks of Tukpahlearik Creek (Devonian to Ordovician)—NW; p. 124

DɆcn **Metasedimentary and metavolcanic rocks of the Central Belt and Northern Thrust assemblage of Till and others (2008a) (Devonian to Proterozoic)**—Includes the following units:
- DɆasm Mixed assemblage of metasedimentary and metavolcanic rocks in the Brooks Range (Devonian to Proterozoic)—NR; p. 126
- DɆsgm Schist, paragneiss, and marble (Devonian to Neoproterozoic)—NR; p. 125
- Sbs Black phyllite and metalimestone (Silurian)—NR; p. 127
- ᵽzɆb Metasedimentary rocks of Bluecloud Mountain (early Paleozoic to Proterozoic?)—NR; p. 129

DɆga **Gneiss, amphibolite, schist, quartzite, and marble (Yukon-Tanana crystalline complex) (Devonian or older)**—Includes the following units:
- Ᵽzyms Mafic schist and amphibolite (Devonian or older Paleozoic)—EC; p. 117
- ᵽzɆybg Biotite gneiss, marble, schist, quartzite, and amphibolite (Devonian or older)—EC; p. 117

DɆnl **Older carbonate rocks of northern Alaska (Lower Devonian to Proterozoic?)**—Includes the following units:
- DZnl Mount Copleston Limestone and Nanook Limestone (Lower Devonian to Ediacaran)—NE; p. 65
- OɆls Limestone, northern Alaska (Ordovician through Proterozoic?)—NR; p. 72

DɆsb **Brooks Range schist belt (Devonian to Proterozoic)**—Includes the following units:
- DɆaqm Quartz-mica schist of the Brooks Range (Devonian to Proterozoic)—NR; p. 125
- DɆacs Calcareous schist of Brooks Range (Devonian to Proterozoic)—NR; p. 126

DɆsq **Pelitic schist and quartzite and mafic interbeds (Yukon-Tanana crystalline complex) (Devonian and older)**—Includes the following units:
- ᵽzɆyqs Quartzite and pelitic schist (Devonian and older)—EC; p. 116
- ᵽzɆyqm Pelitic schist, including Chena River sequence (Devonian and older)—EC; p. 117

DSsm **Shallow-marine, carbonate-dominated rocks (Devonian and Silurian)**—Includes the following units:
- DSld Shallow-marine carbonate-dominated rocks (Devonian and Silurian?)—CN; p. 62
- Dlse Carbonate rocks of southeast Alaska (Devonian)—SE; p. 63
- DSt Tolovana Limestone (Middle Devonian to Silurian, Llandovery?)—CN; p. 64
- Dof Ogilvie Formation (Middle to Lower Devonian)—CN; p. 64
- Sl Limestone, southeast Alaska (Silurian)—SE; p. 70

DSum **Older ultramafic rocks of southeast Alaska (Devonian and Silurian)**—SE; p. 108

DSv **Basalt, andesite, and sedimentary rocks (Devonian)**—Includes the following units:
- Dfr Freshwater Bay and Port Refugio Formations (Late Devonian)—SE; p. 87
- Dmv Mixed volcanic rocks of southeast Alaska (Middle to Early Devonian)—SE; p. 87
- Sv Volcanic rocks in southeast Alaska (Silurian)—SE; p. 88

Dvec **Woodchopper Volcanics and Schwatka unit of Weber and others (1992) (Devonian)**—EC; p. 87

DZwp **Farewell platform facies (Upper Devonian, Frasnian, to Neoproterozoic)**—SW; p. 61. Includes the following units:
- DSwc Whirlwind Creek Formation and correlative units (Upper Devonian, Frasnian, through Silurian, Ludlow)—SW; p. 61
- Ols Lime mudstone (Ordovician)—SW; p. 61
- ꞒZls Dolostone, limestone, orthoquartzite, and minor chert (Cambrian and Neoproterozoic?)—SW, WC; p. 62

DZyf **Clastic and carbonate rocks of the Yukon Flats Basin (Devonian to Neoproterozoic?)**—Includes the following units:
- Dnr Nation River Formation (Upper and Middle? Devonian)—EC; p. 57
- Dcr Cascaden Ridge and Beaver Bend combined correlative units (Devonian)—CN; p. 57
- Dq Quail unit of Weber and others (1992) (Upper Devonian)—CN; p. 57
- Dyp Phyllite, slate, and black shale (Devonian?)—NE; p. 57
- Dyss Clastic and calcareous clastic rocks (Devonian)—NE; p. 58
- Ᵽzpr Older clastic strata of the Porcupine River sequence of Brosgé and Reiser (1969) (lower Paleozoic)—NE; p. 58
- DZkb Older carbonate strata of the Porcupine River sequence of Brosgé and Reiser (1969) and equivalent units (Middle Devonian to Neoproterozoic?)—CN, NE; p. 58

DZyk **Sedimentary and metasedimentary rocks of York terrane (Lower Devonian to Ordovician)**—Includes the following units:
- Ᵽzgp Phyllite and argillite, Grantley Harbor Fault Zone (lower Paleozoic)—SP; p. 67
- DSyl Limestone of the Seward Peninsula (Lower Devonian and (or) Silurian)—SP; p. 67
- SOyl Dark limestone (Silurian and Upper Ordovician)—SP; p. 67
- SOyld Limestone, dolostone, and shale (Silurian and Ordovician)—SP; p. 67
- Oyl Argillaceous limestone and limestone (Middle and Lower Ordovician)—SP; p. 68

Jag **Bokan Mountain peralkaline granite and syenite (Middle Jurassic)**—SE; p. 103

JDmc **Mystic structural complex, undivided (Jurassic to Devonian)**—SW; p. 37

JDoc **Igneous rocks (Angayucham) (Jurassic to Devonian)**—NE, NR, SW, WC; p. 30

Jegr **Intermediate to mafic plutonic rocks (Early Jurassic)**—Includes the following units:
- Jg Plutons of the Yukon-Tanana Upland (Early Jurassic)—EC; p. 104
- Jhg Plutonic rocks of Hidden terrane (Early Jurassic)—SC; p. 104
- Jegd Granodiorite of Hagemeister Island (Early Jurassic)—SW; p. 104

Jk **Graywacke of Kulukak Bay of Hoare and Coonrad (1978) (Upper to Middle Jurassic)**—SW; p. 39

Jlmgr **Plutonic rocks (Late and Middle Jurassic)**—Includes the following units:
- Jtr Trondhjemite (Jurassic)—SC, SW, WC; p. 100
- Jise Granitic rocks of southeast Alaska (Jurassic)—SE; p. 100
- Jgr Jurassic phase, Alaska-Aleutian Range batholith, undifferentiated (Jurassic)—SC, SW; p. 102
- Jit Spruce Creek tonalite (Middle Jurassic)—SP; p. 103

JMct **Cherty tuff and breccia (Angayucham) (Jurassic? to Mississippian)**—WC; p. 31

JMps **Clastic and carbonate rocks, Porcupine River region (Jurassic to Mississippian)**—Includes the following units:
- JMpu Younger strata of the Porcupine River sequence of Brosgé and Reiser (1969), undivided (Jurassic to Mississippian)—EC, NE; p. 39
- JMsu Strangle Woman Creek sequence of Brosgé and Reiser (1969), undivided (Jurassic to Mississippian)—EC; p. 39

JPk **Kakhonak Complex and Tlikakila complex of Carlson and Wallace (1983) (Jurassic, Triassic, and older?)**—SC, SW; p. 138

JPs **Calcareous and metabasaltic schist and phyllite (Togiak-Tikchik Complex) (Early Jurassic to Permian)**—SW; p. 134

JPe **Etivluk Group, undivided (Middle Jurassic to Pennsylvanian)**—NR; p. 40. Includes the following units:
- JꞦo Otuk Formation (Middle Jurassic to Triassic)—NR; p. 40
- ꞦꝐeg Siksikpuk Formation and Imnaitchiak Chert (Triassic to Pennsylvanian)—NR; p. 41

JPzc **Chulitna sequence, undivided (Jurassic to upper Paleozoic)**—Includes the following units:
- JꞦct Crystal tuff, argillite, chert, graywacke, and limestone (Upper Jurassic to Upper Triassic?)—SC; p. 36
- JꞦrb Red and brown sedimentary rocks and basalt (Lower Jurassic and Upper Triassic?)—SC; p. 36
- Ꞧlb Limestone and basalt sequence (Upper Triassic, Norian)—SC; p. 37
- ꞦPzvs Volcanic and sedimentary rocks (Lower Triassic to upper Paleozoic)—SC; p. 37
- Ꞧrs Red beds (Triassic, Norian and older?)—SC; p. 46

JPzs **Northern Alaska sedimentary rocks (Middle Jurassic to Carboniferous)**—NR; p. 41

Jsct **Shelikof and Chinitna Formations and Tuxedni Group (Middle Jurassic)**—Includes the following units:
- Jsc Shelikof and Chinitna Formations (Middle Jurassic, Callovian)—AP, SC; p. 39
- Jt Tuxedni Group (Middle Jurassic)—AP, SC; p. 40

Jtk **Talkeetna Formation (Early Jurassic)**—AP, SC; p. 84

JꞦkp **Limestone and volcanic rocks of the Kenai Peninsula (Early Jurassic and Late Triassic, Norian)**—Includes the following units:
- Ꞧpg Port Graham formation of Kelley (1980) (Upper Triassic, Norian)—SC; p. 44
- JꞦpf Pogibshi formation of Kelley (1980) (Early Jurassic and Late Triassic?)—SC; p. 85

JꞦmv **Tatina River volcanics of Bundtzen and others (1997a) (Mystic structural complex) (Jurassic and Triassic)**—Includes the following units:
- JꞦmv Tatina River volcanics of Bundtzen and others (1997a) and similar mafic volcanic rocks (Jurassic and Triassic)—WC; p. 37
- JꞦv Tatina River volcanics of Bundtzen and others (1997a), gabbro and diorite (Jurassic and Triassic)—SC, WC; p. 37

JꞦos **Newenham ophiolite complex (Jurassic and Triassic)**—SW; p. 138

JꞦsch **Blueschist of southern Alaska (Early Jurassic to Triassic)**—SC, SW; p. 112

JꞦsr **Spiculitic rocks (Lower Jurassic and Upper Triassic)**—Includes the following units:
- JꞦmc McCarthy Formation (Lower Jurassic and Upper Triassic)—SC; p. 42
- Ꞧsl Spiculite and sandy limestone (Upper Triassic, Norian)—WC; p. 42

JZu **Mafic and ultramafic rocks in central, western, and northern Alaska (Jurassic to late Proterozoic)**—Includes the following units:
- JꞦob Ophiolite of the Brooks Range (Jurassic to Triassic?)—NW; p. 101
- JPztu Ultramafic complexes of western Alaska (Jurassic or older)—NE, NW, WC; p. 101
- MzPzyo Peridotite of dismembered ophiolite of the Yukon-Tanana region (Mesozoic, Triassic? or older)—EC; p. 105
- Ꞧc Carbonatite (Late Triassic)—CN; p. 105
- ꞦPzig Gabbro and diabase (Triassic or late Paleozoic)—CN; p. 106
- PzɆmi Mafic igneous rocks, central and northeast Alaska (early Paleozoic and (or) late Proterozoic)—CN, NE; p. 108

Kcca **Coquina and calcarenite (Lower Cretaceous)**—Includes the following units:
- Kqcs Quartz-carbonate sandstone and pebbly mudstone (Lower Cretaceous, Aptian to Valanginian)—SW; p. 32
- Kcm Calcareous mudstone (Lower Cretaceous)—SE; p. 33
- Khnl Herendeen Formation and similar units (Lower Cretaceous)—AP, EC, NR, SC, SW; p. 33

Kcgc **Calcareous graywacke and conglomerate (Lower Cretaceous, Albian to Aptian)**—SW, WC; p. 26

Kchf **Chugach accretionary complex (Cretaceous)**—Includes the following units:
- Kaf Chugach flysch (Upper Cretaceous)—SC, SE, SW; p. 17
- Kafv Volcanic rocks of Chugach accretionary complex (Upper Cretaceous)—SC, SE; p. 18
- Ksg Sitka Graywacke, undivided (Cretaceous)—SE; p. 21

Kcvg **Calcareous graywacke and mudstone, volcanic graywacke and conglomerate (lower Upper or upper Lower Cretaceous)**—WC; p. 23

KDt **Togiak-Tikchik Complex, undivided (Mesozoic to Devonian)**—SW; p. 133

Keg **Granodiorite and other plutonic rocks (Early Cretaceous, Aptian to Hauterivian)**—SC, SE, WC; p. 98

Kfy **Flysch (Upper and Lower? Cretaceous)**—SC; p. 23

Khs **Rocks of Hammond River shear zone of Till and others (2008a) (Cretaceous)**—SP; p. 110

Kipc **Mafic igneous-clast conglomerate, sandstone, and mudstone (Lower Cretaceous)**—WC; p. 26

KJab **Andesite and basalt (Early Cretaceous and Jurassic)**—Includes the following units:
- KJiv Andesitic volcanic rocks (Early Cretaceous and Late Jurassic?)—NW, SW, WC; p. 83
- Jab Andesite and basalt (Jurassic)—SW; p. 84

KJgn **Gravina-Nuzotin unit (Lower Cretaceous and Upper Jurassic)**—SC, SE, SW; p. 28. Includes the following unit:
- KJgv Volcanic rocks of the Gravina-Nutzotin belt (Lower Cretaceous or Upper Jurassic?)—SC, SE; p. 28

KJgu **Plutonic rocks and dikes (Cretaceous to Jurassic)**—Includes the following units:
- Kgu Plutonic rocks and dikes, granite to diorite (Cretaceous?)—EC, SC, SP, SW, WC; p. 96
- KJg Quartz monzodiorite (Cretaceous to Jurassic)—SC, SW; p. 99

KJs **Fine-grained sedimentary and metasedimentary rocks (Cretaceous or Jurassic)**—EC; p. 22

KJse **Saint Elias suite of Gordey and Makepeace (2003) and similar rocks (Early Cretaceous and Late Jurassic)**—SC, SE; p. 99

KJsnk **Staniukovich and Naknek Formations, Kotsina Conglomerate, and similar rocks of southern Alaska (Lower Cretaceous to Jurassic, Pliensbachian)**—Includes the following units:
- Kst Staniukovich Formation (Lower Cretaceous)—AP; p. 35
- Jnk Naknek Formation and Kotsina Conglomerate (Upper Jurassic, Tithonian to Oxfordian)—AP, SC; p. 35
- Js Marine sedimentary rocks of the Wrangell Mountains, undivided (Jurassic, Kimmeridgian to Pliensbachian)—EC; p. 35

KJvp **Volcano-plutonic complexes (Cretaceous and Jurassic)**—Includes the following units:
- Kmvi Mafic to intermediate volcano-plutonic complexes (Late Cretaceous)—SW, WC; p. 83
- KJv Highly altered volcanic rocks in southwest Alaska (Cretaceous or Jurassic)—SW; p. 83

KJyg **Yakutat Group, undivided (Lower Cretaceous and Upper Jurassic?)**—SC, SE; p. 22

KJyh **Graywacke of the Yenlo Hills (Cretaceous? and uppermost Jurassic)**—SC; p. 22

Kk **Kuskokwim Group, undivided (Upper Cretaceous to upper Lower Cretaceous)**—SW; p. 20

Kke **Kemik Sandstone (Lower Cretaceous, Hauterivian)**—NR; p. 27

Kkg **Flysch and quartzite, Kandik Group and equivalents (Lower Cretaceous, Albian to Valanginian)**—EC; p. 27

Klgr **Intermediate granitic rocks (Late Cretaceous)**—SC, SP, SW, WC; p. 96. Includes the following unit:
- Klqm Quartz monzonite and monzonite (Late Cretaceous)—SC, SW; p. 96

Kmgr **Granitic rocks of central and southeast Alaska (Cretaceous, Coniacian to Albian)**—EC, SC, SE, WC; p. 97. Includes the following units:
- Kmqm Quartz monzonite, monzonite, and syenite (Cretaceous, Coniacian to Albian)—CN, EC, SE, SP, WC; p. 97
- Ksy Syenitic rocks (Cretaceous, Coniacian to Albian)—NW, WC; p. 97

Kmig **Migmatite and metaplutonic rocks (Cretaceous)**—EC, NE, SC, SE; p. 110

KMm **West-central Alaska mélange (Angayucham) (Cretaceous or older)**—Includes the following units:
- KJm Mélange facies (Cretaceous or Jurassic?)—NR, WC; p. 30
- KMmu West-central Alaska mélange-like rocks (Cretaceous or older)—WC; p. 30

Kms **Mafic and shoshonitic volcanic rocks (Early Cretaceous)**—Includes the following units:
- Ksbd Spilitic pillow basalt and diabase (Early Cretaceous?)—NW; p. 83
- Ksv Shoshonitic flows and tuff (Early Cretaceous)—WC; p. 84

Kmss **Marine sandstone and siltstone (Cretaceous, Cenomanian to Albian)**—SC, WC; p. 24

Kmuc **McHugh and Uyak Complexes and similar rocks (Late Cretaceous)**—Includes the following units:
- Kumc McHugh and Uyak Complexes (Late Cretaceous)—AP, SC; p. 136
- Kcct Cape Current terrane (Upper Cretaceous)—SW; p. 19

Knmt **Nonmarine to shelf sedimentary rocks (Tertiary? and Cretaceous)**—Includes the following units:
- Kcs Chignik Formation and similar units in southern Alaska (Upper Cretaceous)—AP, SW; p. 16
- Khk Hoodoo and Kaguyak Formations (Upper Cretaceous)—AP; p. 17
- Kmf Minto unit (Upper Cretaceous?)—EC; p. 19
- Ksd Sandstone, shale, and conglomerate deltaic deposits (Upper and upper Lower Cretaceous)—EC, SC, SW, WC; p. 19
- TKis Intricately intruded areas of volcanic graywacke and mudstone (Tertiary or Upper Cretaceous)—WC; p. 20
- Kcc Carbonate-rich conglomerate and sandstone deltaic rocks (Cretaceous)—SP, NW; p. 21
- Kqc Quartz-pebble conglomerate, west-central Alaska (lower Upper Cretaceous to upper Lower Cretaceous)—WC; p. 22
- Ktu Tuluvak Formation (Upper Cretaceous, Coniacian to upper Turonian)—NR; p. 22

Kns **Sedimentary rocks of the North Slope (Cretaceous, Cenomanian to Albian)**—Includes the following units:
- Knf Nanushuk Formation (Cretaceous, Cenomanian to Albian)—NR; p. 24
- Kto Torok Formation (Cretaceous, Cenomanian to Aptian)—NR; p. 24
- Kfm Fortress Mountain Formation (Cretaceous, Albian)—NR; p. 25

Kok **Okpikruak and Kongakut Formations (Lower Cretaceous)**—Includes the following units:
- Kof Okpikruak Formation and similar units (Lower Cretaceous)—NR; p. 25
- Kgk Kongakut Formation (Lower Cretaceous, Hauterivian and younger)—NR; p. 26

Kpf **Pedmar Formation (Lower Cretaceous, Albian)**—AP; p. 26

Kps **Pelitic schist (Late Cretaceous)**—SC; p. 111

KPss **Kingak Shale, Shublik Formation, and Karen Creek Sandstone, undivided (Lower Cretaceous to Permian)**—Includes the following units:
- KPu Kingak Shale, Shublik Formation, and Karen Creek Sandstone, undivided (Lower Cretaceous to Permian)—NE; p. 33
- KJks Kingak Shale and similar units (Lower Cretaceous to Lower Jurassic)—NR; p. 34
- Kit Tingmerkpuk Member of the Ipewik Formation (Lower Cretaceous, Valanginian)—NW; p. 34
- Ꞧkc Karen Creek Sandstone (Upper Triassic)—NR; p. 34

KPzum **Mafic and ultramafic rocks in southern Alaska (Cretaceous to late Paleozoic)**—Includes the following units:
- Kgb Gabbro and diorite of southeast Alaska (Cretaceous)—SE; p. 98
- KJmu Mafic and ultramafic rocks (Cretaceous to Jurassic or older)—SC, SE, SW; p. 98
- KPzum Dunite and serpentinite, undivided (Cretaceous? to Paleozoic)—EC, SC, SE; p. 99
- Kum Ultramafic rocks of southeast Alaska (Early Cretaceous)—SE; p. 99
- KJdg Diorite and gabbro of southeast Alaska (Cretaceous? and Jurassic)—SE; p. 100
- Jum Gabbronorite and other mafic and ultramafic rocks of Hidden terrane (Early Jurassic)—SC, SW; p. 103
- Ꞧgb Gabbro and quartz gabbro (Late Triassic?)—SC; p. 106
- Ꞧum Mafic and ultramafic rocks in the vicinity of the Denali Fault System (Triassic?)—SE; p. 106
- Ꞧdg Mafic igneous rocks of Duke Island (Middle Triassic)—SE; p. 106
- Pzgb Gabbro and orthogneiss (late Paleozoic)—SC; p. 106

Ksb **Schrader Bluff Formation (Upper Cretaceous, Maastrichtian to Santonian)**—NR; p. 19

Ksbf **Seabee Formation and Hue Shale (Upper Cretaceous, Coniacian to Turonian)**—NR; p. 23

Ksfg **Foliated granitic rocks of southeast Alaska (middle Cretaceous?)**—SE; p. 97

Ksmd **Shallow to moderate depth sedimentary rocks (Upper Cretaceous to upper Lower Cretaceous)**—Includes the following units:
- Kkn Nearshore facies (Kuskokwim Group) (Upper Cretaceous, Santonian to Cenomanian)—SW; p. 20
- Km Matanuska Formation and correlative rocks (Upper Cretaceous to upper Lower Cretaceous)—SC; p. 21

KꞦm **Kelp Bay Group, undivided (Cretaceous to Triassic)**—SE; p. 137. Includes the following units:
- Kkbm Khaz Complex (Cretaceous and older)—SE; p. 137
- JꞦpp Pinnacle Peak Phyllite (Jurassic or Triassic?)—SE; p. 137

KꞦvs **Volcanic and sedimentary rocks of southwest Alaska (Cretaceous to Triassic?)**—SW; p. 28. Includes the following units:
- KꞦs Restricted Gemuk Group (Lower Cretaceous to Triassic?)—SW; p. 29
- Jvs Marine volcaniclastic and arkosic sandstone (Jurassic)—SW; p. 29
- Jvc Volcaniclastic and volcanic rocks (Upper and Middle Jurassic)—SW; p. 35
- JꞦvs Coarse volcaniclastic sedimentary rocks (Jurassic and (or) Triassic)—SW; p. 29
- Jms Micaceous graywacke (Lower Jurassic)—SW; p. 41
- JꞦp Phyllite and chert (Lower Jurassic to Upper Triassic)—SW; p. 41
- JꞦls Limestone, shale, and chert (Lower Jurassic and Upper Triassic, Norian)—SW; p. 41

Kvgc **Volcanic graywacke and conglomerate (Lower Cretaceous, Hauterivian and older)**—SW; p. 34

Kvu **Volcanic rocks, undivided (Cretaceous)**—EC, NW, SC, SE, SW; p. 82

Kyg **Volcanic graywacke and mudstone (Lower Cretaceous)**—WC; p. 26

MDe **Endicott Group, undivided (Mississippian to Devonian)**—NR; p. 53. Includes the following units:
- Mek Kekiktuk Conglomerate (Mississippian)—NE, NR; p. 53
- Meks Kapaloak sequence of Moore and others (2002) (Mississippian)—NW; p. 54
- Mes Kurupa Sandstone (Lower Mississippian)—NR; p. 54
- Du Mangaqtaaq formation of Anderson and Watts (1992) and Ulungarat formation of Anderson (1993) (Upper Devonian)—NE; p. 55

MDegk **Kanayut Conglomerate and Noatak Sandstone, undivided (Endicott Group) (Lower Mississippian and Upper Devonian)**—NR; p. 54

MDip **Iyoukeen and Peratrovich Formations (Mississippian and Devonian)**—SE; p. 52

MDmg **Granitic rocks and orthogneiss (Mississippian to Devonian)**—Includes the following units:
- MDgi Old Crow suite of Gordey and Makepeace (2003) and other granitic rocks of northeast Alaska (Mississippian to Devonian?)—NE; p. 107
- MDag Augen gneiss and orthogneiss (Early Mississippian and Late Devonian)—EC, WC; p. 121
- Dmi Metamorphosed mafic igneous rocks (Late Devonian)—CN; p. 122
- Dogn Granitic gneiss (Late and Middle Devonian)—NR, SP; p. 123

MDts **Totatlanika Schist (Yukon-Tanana crystalline complex) (Early Mississippian to Late Devonian)**—EC, SC; p. 116

MDv **Greenstone and schist (Togiak-Tikchik Complex) (Mississippian? and Devonian?)**—SW; p. 135

Mgq **Globe quartzite of Weber and others (1992) (Mississippian)**—CN; p. 52

Mk **Kayak Shale (Endicott Group) (Mississippian)**—NR; p. 53

Mlgac **Akmalik Chert and other black chert of the Lisburne Group (Mississippian)**—NE, NW; p. 51

Mlgk **Kuna Formation (Lisburne Group) (Mississippian)**—NW; p. 50

Mlgnu **Nasorak and Utukok Formations (Lisburne Group) (Mississippian)**—NW; p. 51

MOkg **Kaskawulsh group of Kindle (1953) (Mississippian and older)**—SC; p. 121

MɆgs **Gneiss, schist, and amphibolite (Yukon-Tanana crystalline complex) (Mississippian, Devonian, and older)**—Includes the following units:
- Ᵽzymi Orthogneiss and amphibolite of igneous origin (Mississippian, Devonian, and older?)—EC; p. 116
- ᵽzɆygs Gneiss, schist, and quartzite (Mississippian, Devonian, and older)—EC; p. 116

Mzm **Mélanges (Mesozoic to Paleozoic)**—Includes the following units:
- KJmy Mélange of the Yakutat Group (Cretaceous and Jurassic?)—SC, SE; p. 132
- Kmar Alaska Range mélange (Cretaceous)—SC; p. 132
- MzPzm Southwest Alaska mélange (Mesozoic and Paleozoic)—SW; p. 133

MzPza **Metamorphic rocks of Admiralty Island, undivided (Mesozoic to Paleozoic)**—SE; p. 111

MzPzcp **Metamorphic rocks associated with the Coast plutonic complex of Brew and Morrell (1979b) (Triassic to Paleozoic)**—Includes the following units:
- MzPzss Metasedimentary and minor metavolcanic rocks along the west side of the Coast plutonic complex of Brew and Morrell (1979b) (Triassic to Paleozoic)—SE; p. 112
- Pm Marble along the west side of the Coast plutonic complex of Brew and Morrell (1979b) (Permian? protolith)—SE; p. 113
- MzPzsv Metavolcanic rocks west of the Coast plutonic complex of Brew and Morrell (1979b) (Triassic to Paleozoic)—SE; p. 113
- Pzgn Roof pendants of the Coast plutonic complex of Brew and Morrell (1979b) (Paleozoic)—SE; p. 120
- Pzks Metamorphic rocks of the Kah Shakes sequence of Rubin and Saleeby (1991), undivided (early Paleozoic)—SE; p. 124

MzPzka **Kisaralik anticlinorium of Box and others (1993) (Togiak-Tikchik Complex) (Jurassic metamorphism, early Mesozoic or Paleozoic protolith)**—SW; p. 135. Includes the following units:
- MzPzgs Green amphibole-bearing schist (Jurassic metamorphism)—SW; p. 135
- MzPzp Phyllite of the Kisaralik anticlinorium (early Mesozoic or Paleozoic)—SW; p. 136
- MzPzsk Metasedimentary rocks of the Kisaralik anticlinorium (early Mesozoic or Paleozoic)—SW; p. 136
- MDm Metabasalt and marble of the Kisaralik anticlinorium (Early Mississippian to Late Devonian)—SW; p. 136

MzPzmb **Metabasite (Mesozoic and Paleozoic)**—NR, SP, WC; p. 111

Oc **Chert of Interior Alaska (Ordovician)**—CN; p. 71

OꞒjr **Jones Ridge Limestone and related units (Ordovician to Cambrian)**—EC, NE; p. 72

OꞒv **Fossil Creek Volcanics and similar rocks (Ordovician and Cambrian)**—EC, NE, NR; p. 88

OɆpt **Older rocks of York terrane and Grantley Harbor Fault Zone (Middle Ordovician to Proterozoic)**—SP; p. 68

Pcs **Clastic and volcaniclastic rocks (Togiak-Tikchik Complex) (Permian)**—SW; p. 134

PDcf **Cannery Formation and Porcupine slate of Redman and others (1985), undivided (Permian to Devonian)**—Includes the following units:
- PDcf Cannery Formation and Porcupine slate of Redman and others (1985), undivided (Permian to Devonian)—SE; p. 48
- Pzps Porcupine slate of Redman and others (1985) (late Paleozoic)—SE; p. 120

PDms **Sedimentary rocks of the Mystic structural complex (Permian to Devonian)**—Includes the following units:
- PDsc Sheep Creek formation of Bundtzen and others (1997a) and correlative siliciclastic units of the Mystic structural complex (Permian to Devonian)—SC, SW, WC; p. 38
- Dls Limestone of the Mystic structural complex (Devonian)—SW, WC; p. 38

Plss **Limestone and calcareous clastic rocks (Permian)**—Includes the following units:
- Pls Limestone (Permian)—AP; p. 47
- Plps Pybus Formation and correlative? limestone (Permian)—SE; p. 47
- Ph Halleck Formation and similar sedimentary rock units (Permian)—SE; p. 47
- Ptl Tahkandit Limestone (lower Permian)—EC, NE; p. 48
- Ptls Limestone of southwest Alaska (Togiak-Tikchik Complex) (Permian)—SW; p. 135

PꝐgi **Granodiorite, syenite, and other granitic rocks (early Permian and Pennsylvanian)**—SC, SE; p. 107

PꝐsm **Strelna Metamorphics and related rocks (early Permian to Middle Pennsylvanian)**—SC; p. 119

Pstc **Step Conglomerate (lower Permian)**—EC; p. 48

Pv **Andesite and basalt of southern Alaska (early Permian)**—Includes the following units:
- Pv Volcanic rocks of Puale Bay (early Permian)—AP; p. 86
- Phb Volcanic rocks of the Halleck Formation and related rocks of southeast Alaska (early Permian)—SE; p. 86

ꝐDcf **Calico Bluff and Ford Lake Shale, undivided (Lower Pennsylvanian to Devonian)**—EC; p. 52

ꝐMn **Nuka Formation (Carboniferous)**—NW; p. 49

Ꝑsb **Upper Saginaw Bay Formation and similar rocks of southeast Alaska (Pennsylvanian)**—SE; p. 49

Pzc **Marble (early Permian to early Paleozoic)**—Includes the following units:
- Pzce Marble, southeast Alaska (early Permian to Devonian)—SE; p. 120
- Pzcn Marble, northern Alaska (early Paleozoic)—NW; p. 121
- Pzm Marble of the Brooks Range (Devonian and older)—NR; p. 124

Pzcu **Black chert (lower Paleozoic, Devonian or older)**—SW; p. 55

Pze **Eclogite and associated rocks (Yukon-Tanana crystalline complex) (Paleozoic)**—CN; p. 115

Pzkn **Klondike Schist, Keevy Peak Formation, and similar rocks (Yukon-Tanana crystalline complex) (Permian to early Paleozoic)**—Includes the following units:
- Pks Klondike Schist (Permian)—EC; p. 115
- Pzkp Keevy Peak Formation and similar rocks (early Paleozoic)—CN, EC; p. 117

Pzls **Limestone and marble (Paleozoic)**—EC, NR, WC; p. 47

Pznp **Metagabbro and metasedimentary rocks (Nome Complex) (Paleozoic?)**—SP; p. 140

PzɆgb **Gabbro and metagabbro (early Paleozoic and Proterozoic?)**—SP; p. 129

PzɆkg **High-grade metamorphic rocks of the Seward Peninsula (earliest Paleozoic to Proterozoic)**—SP; p. 129

PzɆnc **Nome Complex, undivided (early Paleozoic to Proterozoic)**—SP; p. 139

PzɆrqm **Pelitic and quartzitic schist of the Ruby terrane (early Paleozoic to Proterozoic?)**—NR, WC; p. 127

PzZncl **Layered sequence (Nome Complex) (Devonian to Neoproterozoic)**—Includes the following units:
- Pzncs Younger schist (Devonian and Silurian?)—SP; p. 140
- DOnx Marble, graphitic rocks, and schist (Devonian to Ordovician?)—SP; p. 140
- Ocs Casadepaga Schist (Ordovician)—SP; p. 141
- Onim Impure marble (Ordovician)—SP; p. 141
- Zngn Metagranitic rocks (Neoproterozoic)—SP; p. 142

Ɇkd **Katakturuk Dolomite (Proterozoic)**—NE; p. 74

Ɇqm **Basement of the White Mountain sequence (Proterozoic)**—Includes the following units:
- Ɇqm Schist of the Telsitna River (Proterozoic)—WC; p. 131
- Ɇm Marble, calcareous and quartz-mica schist, and greenstone (Proterozoic?)—WC; p. 131

Ɇv **Basalt and red beds member (Tindir Group) and Mount Copleston volcanic rocks of Moore (1987) (Proterozoic)**—Includes the following units:
- Ɇtnm Basalt and red beds member (Tindir Group) (Proterozoic)—EC, NE; p. 88
- Ɇv Mount Copleston volcanic rocks of Moore (1987) (Proterozoic)—NE; p. 89

QTgm **Yakataga and Tugidak Formations (Quaternary and uppermost Tertiary)**—SO; p. 5

QTm **Contact metamorphosed and hydrothermally altered rocks (Quaternary or late Tertiary)**—AL, AP; p. 109

QTs **Unconsolidated and poorly consolidated surficial deposits (Quaternary and uppermost Tertiary)**—Includes the following units:
- Qs Unconsolidated surficial deposits, undivided (Quaternary)—ST; p. 5
- QTs Poorly consolidated surficial deposits (Quaternary, Pleistocene, and uppermost Tertiary)—AL, AP, SW, WC; p. 5

QTvi **Young volcanic and shallow intrusive rocks (Quaternary or late Tertiary)**—Includes the following units:
- Qv Youngest volcanic rocks (Quaternary and latest Tertiary?)—AL, AP, EC, SC, SE, SW, WC; p. 75
- QTv Young volcanic rocks, undifferentiated (Quaternary or Tertiary)—AL, AP, EC, SP, SW, WC; p. 75
- QTi Young shallow intrusive rocks (Quaternary or late Tertiary)—AL, AP, SC, SE; p. 89

QTvs **Kiska Harbor and Milky River Formations (Quaternary? and late Tertiary)**—AL, AP; p. 76

SꞒda **Older rock units of the Doonerak Window (Silurian to Cambrian)**—Includes the following units:
- SꞒs Sedimentary rocks of Doonerak Window (Silurian to Cambrian)—NR; p. 69
- OꞒdv Oldest volcanic rocks (Ordovician and Cambrian?)—NR; p. 69

SꞒwbc **Farewell basinal facies clastic rocks (Silurian to upper Cambrian)**—Includes the following units:
- Stc Terra Cotta Mountains Sandstone (Silurian)—WC; p. 60
- SꞒpl Post River Formation and correlative units (Middle Silurian, Wenlock, to upper Cambrian)—SW; p. 60

SOig **Iviagik group of Martin (1970) (Silurian, Llandovery, to Ordovician)**—NW; p. 70

SOmi **Heterogeneous metamorphic rocks, southeast Alaska (Silurian and Ordovician)**—SE; p. 127

SOpw **Sedimentary and volcanic rocks of Prince of Wales Island (Silurian, Llandovery, and Ordovician)**—Includes the following units:
- SOd Descon Formation and other sedimentary and volcanic rocks of Prince of Wales Island (Silurian, Llandovery, and Ordovician)—SE; p. 70
- SOdc Associated carbonate rocks (Silurian, Llandovery, and Ordovician)—SE; p. 71
- SOv Associated volcanic rocks (Silurian, Llandovery, and Ordovician)—SE; p. 71

SZfwr **Four Winds complex of Gilbert and others (1987), Retreat Group, and orthogneiss (Silurian to Proterozoic)**—Includes the following units:
- SZfw Four Winds complex of Gilbert and others (1987) and similar rocks (Silurian to Neoproterozoic)—SE; p. 127
- PzɆrg Retreat Group (Paleozoic and Proterozoic)—SE; p. 128
- ꞒZogn Orthogneiss (Cambrian to Neoproterozoic)—SE; p. 130

Tbk **Basalt and keratophyre (Tertiary, Paleogene, or older)**—AL; p. 79

Tcb **Coal-bearing sedimentary rocks (Tertiary, Pliocene to Eocene?)**—CN, SO; p. 8

Tcc **Gneiss and amphibolite (Tertiary, Miocene)**—EC, SC; p. 109

Tcl **Copper Lake Formation (Tertiary, Eocene to Paleocene)**—AP; p. 15

Tcp **Younger phase, Coast plutonic complex of Brew and Morrell (1979b) (Tertiary, Eocene)**—SE; p. 91

Tcpp **Porphyritic granodiorite phase of Coast plutonic complex of Brew and Morrell (1979b) (Tertiary, Eocene)**—SE; p. 92

Tehi **Felsic dikes, sills, and small stocks in southern Alaska (Tertiary and older?)**—Includes the following units:
- Tephi Felsic hypabyssal intrusions (Tertiary, Eocene)—SC; p. 93
- Tehi Felsic dikes, sills, and small stocks in southern Alaska (Tertiary and older?)—SC; p. 93

Tgb **Gabbroic rocks in southern Alaska (Tertiary)**—Includes the following units:
- Tgbe Younger gabbro of southeast Alaska (Tertiary, Miocene to Eocene)—SE; p. 89
- Tgba Diabase and gabbro, Aleutian Islands (Tertiary, Miocene to Paleocene?)—AL, AP; p. 90
- Tgbw Gabbro, southwest Alaska (Tertiary, Paleogene?)—SC, SW; p. 90

Thi **Hypabyssal intrusions (Tertiary)**—AL, AP, CN, SO; p. 79

Tk **Kootznahoo Formation (Tertiary, lower Miocene to upper Eocene)**—SE; p. 10

TKcf **Canning Formation (lower Tertiary, Oligocene? to Cretaceous, Albian)**—NE; p. 15

TKgi **Granitic rocks of southern and interior Alaska (Tertiary, Paleocene, to Cretaceous, Maastrichtian)**—Includes the following units:
- Tpgr Undivided granitic rocks (Tertiary, late Paleocene)—SC, SO, SW; p. 94
- Tpg Peralkaline granite (Tertiary, Paleocene?)—SW; p. 94
- TKg Felsic granitic rocks (Tertiary, Paleocene, or Late Cretaceous, Maastrichtian)—EC, SC, SO, SW; p. 94
- TKgd Granodiorite to quartz monzodiorite (Tertiary, Paleocene, or Late Cretaceous, Maastrichtian)—EC, SC, SW; p. 95

TKgr **Ghost Rocks Formation and similar rocks (Tertiary, Paleocene, and Upper Cretaceous)**—Includes the following units:
- TKm Ghost Rocks Formation (early Tertiary and latest Cretaceous)—AP; p. 132
- TKgrs Ghost Rocks sedimentary rocks (Tertiary, Paleocene, and Upper Cretaceous)—SW; p. 16
- Kcv Chert and volcanic sequence (Upper Cretaceous)—AP; p. 19

TKkf **Krugoli Formation, undifferentiated (Tertiary, Paleogene, or Cretaceous)**—AL; p. 13

TKm **Mafic intrusive rocks (Tertiary to Late Cretaceous or older)**—Includes the following units:
- TKgb Gabbroic rocks (Tertiary to Late Cretaceous or older)—SC, SW, WC; p. 95
- TKpd Peridotite (Tertiary, Paleocene, or older)—SW; p. 95

Tknt **Nearshore and nonmarine sedimentary rocks in southern Alaska (Tertiary)**—Includes the following units:
- Tkn Kenai Group, undivided (Tertiary, Miocene to Oligocene)—AP, SC; p. 6
- Tts Tsadaka Formation (Tertiary, Oligocene)—SC; p. 10
- Ttk Nearshore and nonmarine sedimentary rocks (Tertiary, Eocene to Paleocene)—AP, SC, SO, SW; p. 11

TKpc **Prince Creek Formation (lower Tertiary, Paleocene, to Upper Cretaceous, Campanian)**—NR; p. 15

TKpr **Flows and pyroclastic rocks (early Tertiary to Late Cretaceous)**—Includes the following units:
- TKv Volcanic rocks in southern Alaska (early Tertiary to Late Cretaceous)—NE, NW, SC, SW, WC; p. 80
- Tpt Pyroclastic rocks (Tertiary, early Eocene or Paleocene)—EC, SE, SW, WC; p. 81
- TKwt Welded tuff and other felsic volcanic rocks (early Tertiary and early Late Cretaceous)—EC; p. 82

TKs **Conglomerate, sandstone, and lignite (lower Tertiary to Upper Cretaceous)**—CN, EC, SP; p. 13

TKtsp **Foliated tonalite sill and pegmatite, Coast plutonic complex of Brew and Morrell (1979b) (Tertiary, Eocene? to latest Cretaceous)**—Includes the following units:
- TKts Foliated tonalite sill of Coast plutonic complex of Brew and Morrell (1979b) (Tertiary, Paleocene, and latest Cretaceous)—SE; p. 92
- TKpeg Trondhjemitic pegmatite (Tertiary, Eocene? or older)—SE; p. 94

Tmi **Younger granitic rocks (Tertiary, Pliocene to Miocene)**—AL, AP, SE; p. 89

TMzmb **MacLaren metamorphic belt of Smith and Lanphere (1971) (Tertiary to Jurassic or older?)**—Includes the following units:
- TKgg Gneissose granitic rocks (Tertiary or Late Cretaceous)—SC; p. 109
- Mzmu Metamorphic rocks of the MacLaren metamorphic belt of Smith and Lanphere (1971) (Cretaceous and Jurassic or older?)—SC; p. 110

TMzu **Basement rocks, undifferentiated, Aleutian Islands (Tertiary or older)**—AL; p. 14

Tng **Nenana Gravel (Tertiary, Pliocene and upper Miocene)**—SC; p. 6

Toeg **Granitic rocks in southern Alaska (Tertiary, Oligocene and Eocene)**—Includes the following units:
- Tgw Granite, southwest Alaska and Aleutian Islands (Tertiary, Oligocene, or older)—AL, AP, SW; p. 90
- Togr Granite and granodiorite (Tertiary, Oligocene)—SC, SE, SW; p. 90
- Tod Granodiorite, quartz diorite, and diorite (Tertiary, Oligocene and late Eocene)—AP, SC, SE; p. 91
- Toegr Granitic rocks (Tertiary, early Oligocene and Eocene)—SC, SE, SW; p. 91

Togum **Mafic and ultramafic rocks of the Valdez and Orca Groups (Tertiary, Eocene to Paleocene)**—SC; p. 92

Togv **Volcanic rocks of the Orca Group and Ghost Rocks Formation (Tertiary, Eocene to Paleocene)**—AP, SC; p. 80

Top **Redwood and Poul Creek Formations (Tertiary, Miocene to Eocene?)**—SC; p. 7

Tovs **Sedimentary and volcanic rocks of the Orca Group, undivided (Tertiary, Eocene to Paleocene)**—SC; p. 14; Includes the following unit:
- Tos Sedimentary rocks of the Orca Group (Tertiary, Eocene to Paleocene)—SC; p. 14

Tpgi **Granitic intrusive rocks of the Chugach accretionary complex (Tertiary, Paleocene)**—SC, SW; p. 93

TPzi **Undivided dikes and sills (Tertiary to Paleozoic?)**—Includes the following units:
- TKhi Dikes and subvolcanic rocks (Tertiary and (or) Cretaceous)—SW, WC; p. 95
- MzPzi Undivided dikes and sills, south-central Alaska (Mesozoic or Paleozoic)—SC; p. 96

Tsf **Sagavanirktok Formation (Tertiary, Miocene to Paleocene)**—NR; p. 7

Tski **Sitkinak and Sitkalidak Formations (Tertiary, Oligocene to Eocene)**—Includes the following units:
- Tsk Sitkinak Formation (Tertiary, Oligocene)—SW; p. 12
- Tsi Sitkalidak Formation (Tertiary, Oligocene to Eocene)—SW; p. 12

Tsmo **Sedimentary rocks of southwest Alaska (Tertiary, Miocene and Oligocene)**—Includes the following units:
- Tms Tachilni, Bear Lake, Chuniksak, Nevidiskov, and Chirikof Formations (Tertiary, Miocene and upper Oligocene)—AL, AP; p. 8
- Tnc Narrow Cape and Topsy Formations (Tertiary, Miocene)—AP, SC; p. 9
- Tuu Unga, Belkofski, and Unalaska Formations (Tertiary, Miocene)—AL, AP; p. 9
- Tsti Siltstone of Trinity Islands (Tertiary, Miocene and Oligocene)—AP; p. 10

Tsu **Sedimentary rocks, undivided (Tertiary)**—ST; p. 6

Ttsr **Sedimentary rocks of eastern Prince William Sound (Tertiary, Eocene)**—Includes the following units:
- Tes Tokun and Stillwater Formations and similar rocks (Tertiary, Eocene)—SC; p. 12
- Tkf Kulthieth Formation (Tertiary, Eocene)—SC, SE; p. 13

Tv **Volcanic rocks, undivided (Tertiary)**—Includes the following units:
- Tvu Volcanic rocks of southern Alaska (Tertiary, Pliocene? and older)—AL, AP, CN, EC, SC, SW; p. 76
- Twv Wrangell Lava (Tertiary, Pliocene to Oligocene?)—EC, SC; p. 77
- Tepv Andesite and basalt flows (Tertiary, Eocene and Paleocene)—SC, WC; p. 80
- Tpcv Cantwell Formation, volcanic rocks subunit (Tertiary, Paleocene)—SC; p. 82
- Tsr Soda rhyolite and basalt (Tertiary, Paleocene)—NW; p. 82

Tvc **Victoria Creek metamorphic rocks (Tertiary, Paleocene metamorphism)**—CN; p. 110

Tvcs **Volcanic and sedimentary rocks (Tertiary, Oligocene and Eocene)**—Includes the following units:
- Tarcs Volcaniclastic sedimentary rocks (Tertiary, Oligocene to Eocene)—AL, AP; p. 10
- Tvs Volcanic and sedimentary rocks, undivided (Tertiary, Oligocene and Eocene)—SC; p. 11

Tvme **Older volcanic rocks, undivided (Tertiary, early Miocene to Eocene)**—Includes the following units:
- Tca Admiralty Island and Cenotaph Volcanics (Tertiary, Miocene to Oligocene)—SE; p. 78
- Tmv Meshik Volcanics and similar rock units (Tertiary, Oligocene to Eocene)—AL, AP, SC, WC; p. 78
- Tev Felsic volcanic rocks of southwest Alaska (Tertiary, Oligocene? and Eocene)—SW; p. 79

Tvpm **Younger volcanic rocks, undivided (Tertiary, Pliocene and Miocene)**—Includes the following units:
- Tpv Basalt and tuff (Tertiary, Pliocene)—SW; p. 77
- Tvm Volcanic rocks of the Aleutian Islands and Alaska Peninsula (Tertiary, Miocene)—AL, AP, SW; p. 77
- Tob Olivine basalt flows (Tertiary, Miocene)—EC; p. 78

Ꞧcs **Calcareous sedimentary rocks (Upper Triassic, middle? Norian and upper Carnian)**—SC; p. 44

ꞦDtz **Sedimentary rocks and chert (Angayucham) (Triassic to Devonian)**—Includes the following units:
- ꞦDtz Sedimentary rocks (Triassic to Devonian)—EC, NE, NR, SW, WC; p. 32
- ꝐMch Chert (Carboniferous and older)—WC; p. 32

Ꞧgs **Shublik Formation and lower Glenn Shale (Triassic)**—Includes the following units:
- Ꞧgs Shublik Formation (Triassic)—NR; p. 34
- Ꞧgsl Glenn Shale, lower unit (Triassic)—EC; p. 42

Ꞧhg **Hyd Group, undivided (Upper and Middle Triassic)**—SE; p. 43. Includes the following units:
- Ꞧhgs Hyd Group sedimentary rocks, undivided (Upper Triassic)—SE; p. 43
- Ꞧhgv Hyd Group igneous rocks, undivided (Upper Triassic)—SE; p. 44

Ꞧmb **Massive basalt and greenstone (Triassic)**—Includes the following units:
- Ꞧvs Volcanic and sedimentary rocks of Nakwasina Sound (Triassic)—SE; p. 85
- Ꞧb Mafic volcanic rocks of Chilkat Peninsula (Late Triassic)—SE; p. 85
- Ꞧn Nikolai and Goon Dip Greenstones and equivalent rocks (Late and Middle Triassic)—SC, SE; p. 86
- Ꞧcb Cottonwood Bay and Chilikradrotna Greenstones (Late Triassic, Norian?)—AP, SW; p. 86
- Ꞧvsw Older volcanic rocks of southwest Alaska (Triassic)—SW; p. 86

Ꞧmls **Marble and limestone of Wrangellia (Triassic)**—Includes the following units:
- Ꞧls Carbonates and associated rocks (Triassic)—SW; p. 45
- Ꞧcnk Chitistone and Nizina Limestones and Kamishak Formation (Upper Triassic, Norian to Carnian)—AP, SC, SW; p. 45
- Ꞧwm Whitestripe Marble of southeast Alaska (Triassic?)—SE; p. 45

ꞦMsm **Seventymile assemblage (Yukon-Tanana crystalline complex) (Triassic to Mississippian)**—EC; p. 115

ꞦPsg **Sadlerochit Group, undivided (Lower Triassic to Permian)**—NE; p. 46. Includes the following units:
- Ꞧif Ivishak Formation (Lower Triassic)—NE; p. 46
- Pe Echooka Formation (Permian)—NE; p. 46

ꞦPvs **Metamorphic rocks, southeast Alaska (Triassic to Permian)**—SE; p. 114

ꞦꝐms **Skolai and Mankomen Groups, undivided (Triassic to Pennsylvanian)**—Includes the following units:
- PꝐms Mankomen and Skolai Groups, undivided (lower Permian and Pennsylvanian)—SC; p. 48
- Peh Eagle Creek and Hasen Creek Formations (lower Permian)—SC; p. 48
- Pehls Limestone of the Hasen Creek and Eagle Creek Formations (lower Permian)—SC; p. 49
- PꝐt Slana Spur and Station Creek Formations and Tetelna Volcanics (lower Permian to Middle Pennsylvanian)—SC; p. 49
- Ꞧms Metavolcanic and metasedimentary rocks (Late Triassic)—SC; p. 118

ꞦꝐsf **Flysch-like sedimentary rocks (Triassic to Pennsylvanian)**—SC; p. 42

ꞦPzbi **Metamorphic rocks of Baranof Island (Triassic or older)**—SE; p. 118

ꞦPzgp **Metagraywacke and phyllite (Triassic? and late Paleozoic)**—CN, NR, WC; p. 119

Ꞧqd **Quartz diorite and granodiorite (Triassic)**—EC, SE, SW; p. 104

Ꞧsf **Shuyak Formation, undivided (Upper Triassic)**—Includes the following units:
- Ꞧsy Sedimentary member (Upper Triassic)—AP; p. 42
- Ꞧsyv Volcanic member (Upper Triassic)—AP; p. 42

Xio **Kanektok metamorphic complex and Idono Complex (Paleoproterozoic)**—SW; p. 131. Includes the following unit:
- pꞒkm Kanektok marble (Precambrian)—SW; p. 132

Zam **Metasedimentary and metavolcanic rocks of Mount Angayukaqsraq (Neoproterozoic)**—NW; p. 130

Zgn **Gneiss of northern Alaska (Neoproterozoic)**—Includes the following units:
- Zgn Granite and orthogneiss (Neoproterozoic?)—NR; p. 130
- Zgns Orthogneiss of the Seward Peninsula (Neoproterozoic)—SP; p. 130

EXPLANATION OF MAP SYMBOLS

[Some symbols on printed or plotted maps are too short or too small to clearly identify. All symbols are attributed in the database]

Faults—See database for more information on fault movement

Fault—Solid where location is certain, approximate, or inferred; dotted where concealed

Thrust fault—Solid where location is certain, approximate, or inferred; dotted where concealed. Sawteeth on upper plate

High-angle thrust fault—Solid where location is certain, approximate, or inferred; dotted where concealed. Sawteeth on upper plate

Caldera or crater rim—Solid where location is certain; dotted where concealed

Glacier

Road

○ **City or town**

See Guide to the Digital Database Files (readme file), Spatial Datasets section, for geographic sources

No suitable topographic base is available or could be created within the scope of this project. Shaded-relief bases were not appropriate, because they obscured the geologic mapping

Alaska Albers Equal Area projection; North American Datum 1983 (NAD–83)

SCALE 1:1 584 000

50 0 50 100 150 MILES

50 0 50 100 150 KILOMETERS

NORTH AMERICAN VERTICAL DATUM OF 1988

RUSSIA
ALASKA
CANADA
PACIFIC OCEAN
MAP LOCATION

Detailed mapping credit is in nsarefs in database
Digital database by F.H. Wilson, Nora Shew, Keith Labay, and C.P. Hults
Cartographic design by Keith Labay
Digital cartographic production by Kathryn Nimz
Edited by C.M. Landowski and J.L. Zigler
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Geologic Map of Alaska

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