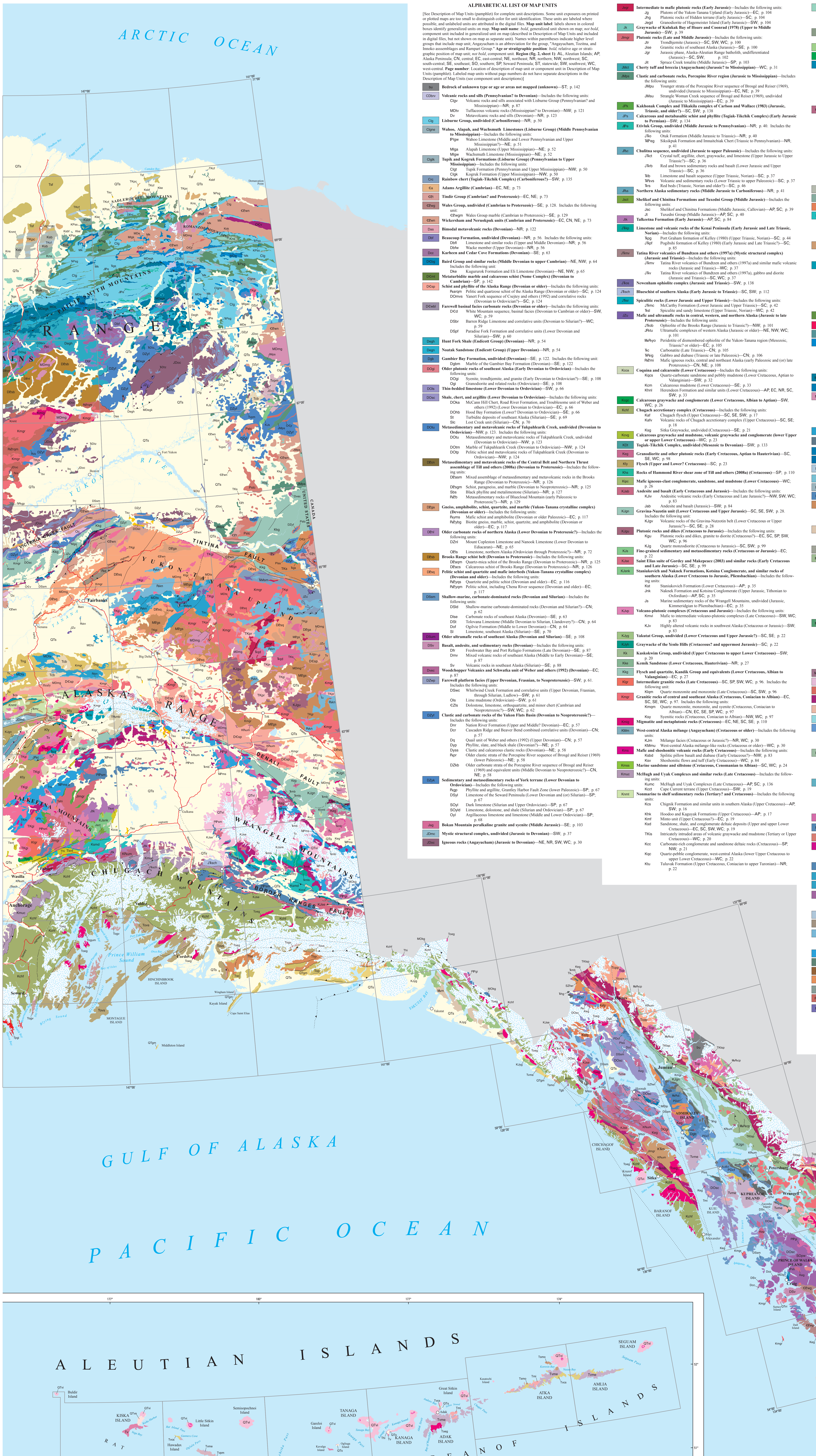
U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Map 3340
Sheet 2 of 2
Pamphlet accompanies map



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:
	ℙMlgw	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
ꞒᵽPt		**Tindir Group (Cambrian? and Proterozoic)**—EC, NE; p. 73
Ꞓᵽwg		**Wales Group, undivided (Cambrian to Proterozoic)**—SE; p. 128. Includes the following unit:
	Ꞓᵽwgm	Wales Group marble (Cambrian to Proterozoic)—SE; p. 129
Ꞓᵽwn		**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:
	Pzarqm	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
DᵽPcn		**Metasedimentary and metavolcanic rocks of the Central Belt and Northern Thrust assemblage of Till and others (2008a) (Devonian to Proterozoic)**—Includes the following units:
	Dᵽasm	Mixed assemblage of metasedimentary and metavolcanic rocks in the Brooks Range (Devonian to Proterozoic)—NR; p. 126
	Dᵽsgm	Schist, paragneiss, and marble (Devonian to Neoproterozoic)—NR; p. 125
	Sbs	Black phyllite and metalimestone (Silurian)—NR; p. 127
	Pzᵽb	Metasedimentary rocks of Bluecloud Mountain (early Paleozoic to Proterozoic?)—NR; p. 129
Dᵽga		**Gneiss, amphibolite, schist, quartzite, and marble (Yukon-Tanana crystalline complex) (Devonian or older)**—Includes the following units:
	Pzyms	Mafic schist and amphibolite (Devonian or older Paleozoic)—EC; p. 117
	Pzᵽybg	Biotite gneiss, marble, schist, quartzite, and amphibolite (Devonian or older)—EC; p. 117
Dᵽnl		**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
	Oᵽls	Limestone, northern Alaska (Ordovician through Proterozoic?)—NR; p. 72
Dᵽsb		**Brooks Range schist belt (Devonian to Proterozoic)**—Includes the following units:
	Dᵽaqm	Quartz-mica schist of the Brooks Range (Devonian to Proterozoic)—NR; p. 125
	Dᵽacs	Calcareous schist of Brooks Range (Devonian to Proterozoic)—NR; p. 126
Dᵽsq		**Pelitic schist and quartzite and mafic interbeds (Yukon-Tanana crystalline complex) (Devonian and older)**—Includes the following units:
	Pzᵽyqs	Quartzite and pelitic schist (Devonian and older)—EC; p. 116
	Pzᵽyqm	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
	Pzpr	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:
	Pzgp	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:
	JŦo	Otuk Formation (Middle Jurassic to Triassic)—NR; p. 40
	Ŧℙeg	Siksikpuk Formation and Imnaitchiak Chert (Triassic to Pennsylvanian)—NR; p. 41
JPzc		**Chulitna sequence, undivided (Jurassic to upper Paleozoic)**—Includes the following units:
	JŦct	Crystal tuff, argillite, chert, graywacke, and limestone (Upper Jurassic to Upper Triassic?)—SC; p. 36
	JŦrb	Red and brown sedimentary rocks and basalt (Lower Jurassic and Upper Triassic?)—SC; p. 36
	Ŧlb	Limestone and basalt sequence (Upper Triassic, Norian)—SC; p. 37
	ŦPzvs	Volcanic and sedimentary rocks (Lower Triassic to upper Paleozoic)—SC; p. 37
	Ŧrs	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
JŦkp		**Limestone and volcanic rocks of the Kenai Peninsula (Early Jurassic and Late Triassic, Norian)**—Includes the following units:
	Ŧpg	Port Graham formation of Kelley (1980) (Upper Triassic, Norian)—SC; p. 44
	JŦpf	Pogibshi formation of Kelley (1980) (Early Jurassic and Late Triassic?)—SC; p. 85
JŦmv		**Tatina River volcanics of Bundtzen and others (1997a) (Mystic structural complex) (Jurassic and Triassic)**—Includes the following units:
	JŦmv	Tatina River volcanics of Bundtzen and others (1997a) and similar mafic volcanic rocks (Jurassic and Triassic)—WC; p. 37
	JŦv	Tatina River volcanics of Bundtzen and others (1997a), gabbro and diorite (Jurassic and Triassic)—SC, WC; p. 37
JŦos		**Newenham ophiolite complex (Jurassic and Triassic)**—SW; p. 138
JŦsch		**Blueschist of southern Alaska (Early Jurassic to Triassic)**—SC, SW; p. 112
JŦsr		**Spiculitic rocks (Lower Jurassic and Upper Triassic)**—Includes the following units:
	JŦmc	McCarthy Formation (Lower Jurassic and Upper Triassic)—SC; p. 42
	Ŧsl	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:
	JŦob	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
	Ŧc	Carbonatite (Late Triassic)—CN; p. 105
	ŦPzig	Gabbro and diabase (Triassic or late Paleozoic)—CN; p. 106
	Pzᵽmi	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
	Ŧkc	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
	Ŧgb	Gabbro and quartz gabbro (Late Triassic?)—SC; p. 106
	Ŧum	Mafic and ultramafic rocks in the vicinity of the Denali Fault System (Triassic?)—SE; p. 106
	Ŧdg	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
KŦm		**Kelp Bay Group, undivided (Cretaceous to Triassic)**—SE; p. 137. Includes the following units:
	Kkbm	Khaz Complex (Cretaceous and older)—SE; p. 137
	JŦpp	Pinnacle Peak Phyllite (Jurassic or Triassic?)—SE; p. 137
KŦvs		**Volcanic and sedimentary rocks of southwest Alaska (Cretaceous to Triassic?)**—SW; p. 28. Includes the following units:
	KŦs	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
	JŦvs	Coarse volcaniclastic sedimentary rocks (Jurassic and (or) Triassic)—SW; p. 29
	Jms	Micaceous graywacke (Lower Jurassic)—SW; p. 41
	JŦp	Phyllite and chert (Lower Jurassic to Upper Triassic)—SW; p. 41
	JŦls	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
Mᵽgs		**Gneiss, schist, and amphibolite (Yukon-Tanana crystalline complex) (Mississippian, Devonian, and older)**—Includes the following units:
	Pzymi	Orthogneiss and amphibolite of igneous origin (Mississippian, Devonian, and older?)—EC; p. 116
	Pzᵽygs	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
Oᵽpt		**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
Pℙgi		**Granodiorite, syenite, and other granitic rocks (early Permian and Pennsylvanian)**—SC, SE; p. 107
Pℙsm		**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
ℙDcf		**Calico Bluff and Ford Lake Shale, undivided (Lower Pennsylvanian to Devonian)**—EC; p. 52
ℙMn		**Nuka Formation (Carboniferous)**—NW; p. 49
ℙsb		**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
Pzᵽgb		**Gabbro and metagabbro (early Paleozoic and Proterozoic?)**—SP; p. 129
Pzᵽkg		**High-grade metamorphic rocks of the Seward Peninsula (earliest Paleozoic to Proterozoic)**—SP; p. 129
Pzᵽnc		**Nome Complex, undivided (early Paleozoic to Proterozoic)**—SP; p. 139
Pzᵽrqm		**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
Ᵽkd		**Katakturuk Dolomite (Proterozoic)**—NE; p. 74
Ᵽqm		**Basement of the White Mountain sequence (Proterozoic)**—Includes the following units:
	Ᵽqm	Schist of the Telsitna River (Proterozoic)—WC; p. 131
	Ᵽm	Marble, calcareous and quartz-mica schist, and greenstone (Proterozoic?)—WC; p. 131
Ᵽv		**Basalt and red beds member (Tindir Group) and Mount Copleston volcanic rocks of Moore (1987) (Proterozoic)**—Includes the following units:
	Ᵽtnm	Basalt and red beds member (Tindir Group) (Proterozoic)—EC, NE; p. 88
	Ᵽv	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
	Pzᵽrg	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
Ŧcs		**Calcareous sedimentary rocks (Upper Triassic, middle? Norian and upper Carnian)**—SC; p. 44
ŦDtz		**Sedimentary rocks and chert (Angayucham) (Triassic to Devonian)**—Includes the following units:
	ŦDtz	Sedimentary rocks (Triassic to Devonian)—EC, NE, NR, SW, WC; p. 32
	ℙMch	Chert (Carboniferous and older)—WC; p. 32
Ŧgs		**Shublik Formation and lower Glenn Shale (Triassic)**—Includes the following units:
	Ŧgs	Shublik Formation (Triassic)—NR; p. 34
	Ŧgsl	Glenn Shale, lower unit (Triassic)—EC; p. 42
Ŧhg		**Hyd Group, undivided (Upper and Middle Triassic)**—SE; p. 43. Includes the following units:
	Ŧhgs	Hyd Group sedimentary rocks, undivided (Upper Triassic)—SE; p. 43
	Ŧhgv	Hyd Group igneous rocks, undivided (Upper Triassic)—SE; p. 44
Ŧmb		**Massive basalt and greenstone (Triassic)**—Includes the following units:
	Ŧvs	Volcanic and sedimentary rocks of Nakwasina Sound (Triassic)—SE; p. 85
	Ŧb	Mafic volcanic rocks of Chilkat Peninsula (Late Triassic)—SE; p. 85
	Ŧn	Nikolai and Goon Dip Greenstones and equivalent rocks (Late and Middle Triassic)—SC, SE; p. 86
	Ŧcb	Cottonwood Bay and Chilikradrotna Greenstones (Late Triassic, Norian?)—AP, SW; p. 86
	Ŧvsw	Older volcanic rocks of southwest Alaska (Triassic)—SW; p. 86
Ŧmls		**Marble and limestone of Wrangellia (Triassic)**—Includes the following units:
	Ŧls	Carbonates and associated rocks (Triassic)—SW; p. 45
	Ŧcnk	Chitistone and Nizina Limestones and Kamishak Formation (Upper Triassic, Norian to Carnian)—AP, SC, SW; p. 45
	Ŧwm	Whitestripe Marble of southeast Alaska (Triassic?)—SE; p. 45
ŦMsm		**Seventymile assemblage (Yukon-Tanana crystalline complex) (Triassic to Mississippian)**—EC; p. 115
ŦPsg		**Sadlerochit Group, undivided (Lower Triassic to Permian)**—NE; p. 46. Includes the following units:
	Ŧif	Ivishak Formation (Lower Triassic)—NE; p. 46
	Pe	Echooka Formation (Permian)—NE; p. 46
ŦPvs		**Metamorphic rocks, southeast Alaska (Triassic to Permian)**—SE; p. 114
Ŧℙms		**Skolai and Mankomen Groups, undivided (Triassic to Pennsylvanian)**—Includes the following units:
	Pℙms	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
	Pℙt	Slana Spur and Station Creek Formations and Tetelna Volcanics (lower Permian to Middle Pennsylvanian)—SC; p. 49
	Ŧms	Metavolcanic and metasedimentary rocks (Late Triassic)—SC; p. 118
Ŧℙsf		**Flysch-like sedimentary rocks (Triassic to Pennsylvanian)**—SC; p. 42
ŦPzbi		**Metamorphic rocks of Baranof Island (Triassic or older)**—SE; p. 118
ŦPzgp		**Metagraywacke and phyllite (Triassic? and late Paleozoic)**—CN, NR, WC; p. 119
Ŧqd		**Quartz diorite and granodiorite (Triassic)**—EC, SE, SW; p. 104
Ŧsf		**Shuyak Formation, undivided (Upper Triassic)**—Includes the following units:
	Ŧsy	Sedimentary member (Upper Triassic)—AP; p. 42
	Ŧsyv	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

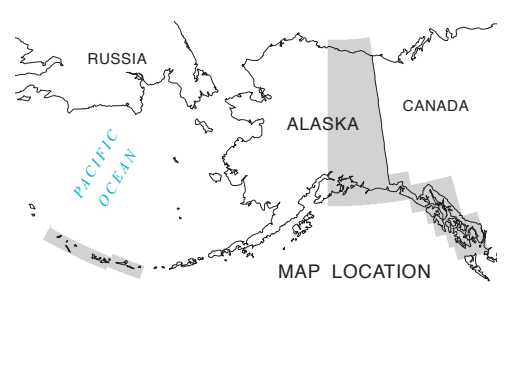
Alaska Albers Equal Area projection; North American Datum 1983 (NAD–83)

SCALE 1:1 584 000

50 0 50 100 150 MILES

50 0 50 100 150 KILOMETERS

NORTH AMERICAN VERTICAL DATUM OF 1988



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Geologic Map of Alaska

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