

SOURCES OF GEOLOGIC MAPPING

KENAI QUADRANGLE
Bedard and Wilson, 2000
Detterman and Hartsock, 1966
Karlstrom, 1964
Magown and others, 1976
Reid and others, 1983
Reid and others, 1992
Richle and Emmel, 1980
Waythomas and Miller, 1999
Wilson, F.H., and Hults, C.P., unpub. data, 2007
Wilson and others, 2006.

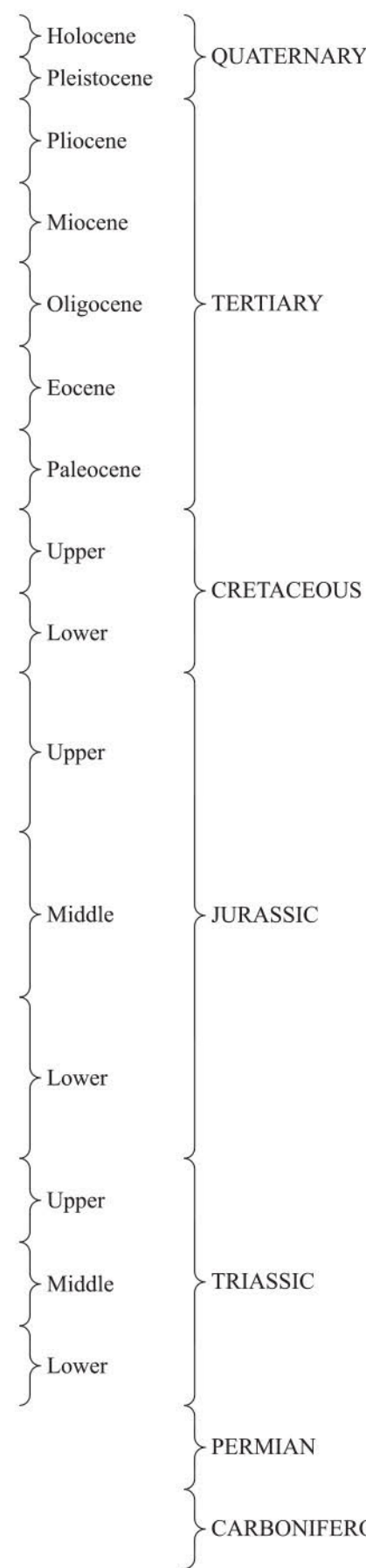
SELDOY QUADRANGLE
Bedard, D.C., USGS, oral commun., June 7, 2007
Bedard and others, 1999
Detterman and Hartsock, 1966
Karlstrom, 1964
Wilson, F.H., and Hults, C.P., unpub. data, 2007

SEWARD QUADRANGLE
Bull and Gibbons, 1992
Bedard and Miller, 2006
Nelson and others, 1985
Nelson and others, 1999
Tyndal and C.F., 1979
Wilson, F.H., and Hults, C.P., unpub. data, 2007

BYING SOUND QUADRANGLE
Bedard and Miller, 2006
Nelson and others, 1985
Tyndal and C.F., 1979

CORVIDA QUADRANGLE
Nelson and others, 1985
Hults, T.L., and Simon, V.B., written commun., 2005
Richer and others, 2005
Winkler and Isler, 1993

MIDKOTEN ISLAND QUADRANGLE
Bedard and Miller, 2006



LIST OF MAP UNITS

UNCONSOLIDATED DEPOSITS	
Qf	Modern tidal flat and estuarine deposits (Holocene)
Qs	Unconsolidated surficial deposits, undivided (Quaternary)
Qt	Alluvial and terrace deposits
Qd	Landfill and cultural deposits
Qul	Quaternary, swamp, and fine silt deposits
Qc	Beach deposits
Qe	Estuarine deposits
Qk	Kolter deposits
Qd	Deltaic deposits
Qcl	Clasholacustrine deposits
Qgl	Glacial deposits, undivided
Qgl	Drift of Neoglacial age (Holocene)
Qgl	Outwash of the Neoglacial age (Holocene)
Qgl	Glacial deposits of the Naptowne and Brooks Lake
Qgno	Outwash and valley train deposits (Pleistocene)
Qng	Older glacial deposits (Pleistocene)
Qngp	Outwash associated with older glacial deposits (Pleistocene)
Qch	Moraine of the Caribou Hills Glaciation (Pleistocene)

ROCK UNITS WEST OF THE BORDER RANGES	
	HEADED ROCKS
Tst	Kent Group, individual (Pliocene to Oligocene)
Tr	Wedge Formation (Pliocene and Miocene)
Tu	Bulaga Formation (Pliocene)
Tvy	Tysons Formation (Miocene and Oligocene)
Tv	Hemlock Conglomerate (Oligocene)
Tst	West Portland Formation (Eocene and Paleocene)
	Saddle Mountain section of Mgason and others (1980): (1)
sp	Nakak Formation (Upper Jurassic; Tithonian to Oxford)
	Pomeroy Arkose Member (Kimmeridgian and Oxford)
	Sung Harbor Siltsone Member (Kimmeridgian and Oxford)
	Nakak Creek Sandstone Member (Oxfordian)
	Chalk Conglomerate Member
	Chilina Formation (Middle Jurassic, Callovian)
	Pavloff Siltsone Member
	Tauvik Siltsone Member
	Tuxedo Group (Middle Jurassic, Bathonian to Aalenian)
	Bonser Formation (Bathonian)
	North Creek Siltsone (Bajocian)
	Cynthia Falls Sandstone (Bajocian?)

	Pitz Creek Sandstone (middle Bajocian)
	Galkena Sandstone (lower middle Bajocian)
	Red Clastic Formation (lower middle Bajocian to lower T)
	Talkeetna Formation (lower middle Bajocian to lower T)
	Irish Mountain Tuff Member
	Purau Creek Agglomerate Member
	Marsh Creek Breccia Member
	Peak Crater Breccia of Kelly (1980), undivided (<i>Lower Jurassic</i> age and older?)
	Post Graham Formation of Kelly (1980) (Upper Triassic, no age and older?)
	Kahkonen Complex (<i>Lower Jurassic to Permian?</i> or older?)
IGNEOUS ROCKS	
	Volcanic rocks, undivided (Quaternary)
	Debris-flow deposits (Holocene)
	Andesitic and dioritic dikes (Platocene)
	Lava flows (divided) (late Tertiary)
	Gneissolite (Tertiary and/or Cretaceous)
	Granite (Tertiary-Cretaceous)
	Quartz monzonite (Tertiary and/or Jurassic?)
	Alaskan-Alutian Granitic batholith (Jurassic phase)
	Trochilidite (Late Jurassic)
	Diorite (Tertiary, tonalite, and diorite (Jurassic)
	Tonalite (Tertiary and tonalite (Late Triassic)
ROCK TYPES WITH THE BORDER RANGES FA	
METAMORPHIC ROCKS	
	Schistosity metamorphic complex (Early Jurassic)

BEDDED ROCKS	
	Yakutat Formation (Paleocene to Miocene)
	Redwood Formation (Pliocene to Oligocene?)
	Poul Creek Formation (lower Miocene to Late Eocene)
	Sedimentary rocks
	Volcanic rocks
	Tukon Formation (Eocene)
	Kuthlieth Formation (Eocene)
	Stillwater Formation (Eocene)
	Ora Group (lower middle Eocene to late Paleocene)
	Sedimentary rocks, undivided
	Conglomerate
	Valley Group (Upper Cretaceous)
	Metasedimentary rocks, undivided
	Intersbedded metavolcanic and metasedimentary rocks

	Metavolcanic rocks, unindivided
	Aquagene tuff
	Schist
	Gneiss
	Mafic of Iteawem Peak of Kasky and others (1997)
	MtlgH Complex, unindivided (Cretaceous to Carboniferous)
	MtlgH Complex, graywacke and conglomerate (<i>Lower Cretaceous</i>)
	MtlgH Complex, basalt and chert (<i>Lower Cretaceous</i> , 1-6 km thick)
	Gabbro (Mesozoic)
	Ultramafic gabbro rocks (Mesozoic)
IRONSTONE ROCKS	
	Basite of Capintzen Elbas (Eocene to Miocene)
	Mafic plugs (Oligocene?)
	Granitic rocks (Oligocene? and latest Eocene)
	Gabbro and diorite (Oligocene and older)
	Granite and granodiorite (Eocene)
	Granitic rocks of Harding Icefield region (Eocene and Paleocene)
OPHILITE ROCKS OF PRINCE VILLANUS	
	Volcanic rocks, unindivided (Eocene)
	Felsic lavas
	Volcanic and sedimentary rocks
	Sherald basalts (Eocene)
	Gabbro
	Ultramafic rocks
MAFIC AND ULTRAMAFIC PHAEOIC ROCKS (Eocene and Paleocene)	
	Gabbro (early Tertiary to Early Cretaceous)

EXPLANATION OF MAP SYMBOLS

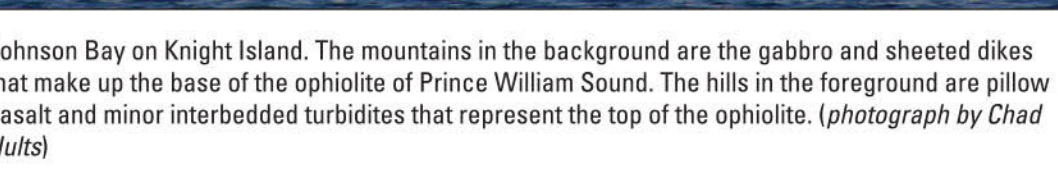
-  **Contact**—Dashed where approximate and inferred, dotted where definite
-  **Fault**—Dashed where approximate and inferred, dotted where definite
-  **Thrust fault**—Dashed where approximate and inferred, dotted where definite
-  **Meridional Extinct place**
-  **Shoreline or riverbank**
-  **Ice contact**
-  **Lineament or fracture of limestone**
-  **Fissure**
-  **Major roads**
-  **Glaciers**

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

For sale by U.S. Geological Survey, Information Services, Box 25208, Federal Center, Denver, CO 80225, 1-888-456-1225

Digital files available at <http://pubs.usgs.gov/mf7010/>

Suggested citation: Wilson, H.G., and Rahn, C.P., 2013, Geology of the Prince William Sound and Alaska Peninsula Region, Alaska: U.S. Geological Survey Scientific Investigations Map 3118, pamphlet 37 p., scale 1:268,000. [Available at <http://pubs.usgs.gov/mf7192/>]



GEOLOGY OF THE PRINCE WILLIAM SOUND AND KENAI PENINSULA REGION, ALASKA

Compiled by
Frederic H. Wilson and Chad P. Hulst
2012

