

**GEOLOGIC UNITS**

**SEDIMENTARY AND VOLCANIC DEPOSITS AND ROCKS**

- Quaternary Sedimentary Deposits**
- Qs Quaternary sediments, undivided
- Nonglacial Deposits**
- Qls Mass-wasting deposits  
Qa Alluvium  
Qoa Older alluvium
- Glacial Deposits**
- Qgd Glacial drift
- Tertiary Sedimentary and Volcanic Rocks**
- Eva<sub>1</sub> Volcanic rocks of Island Mountain, andesite flows  
Ev<sub>1</sub> Volcanic rocks of Island Mountain, undivided volcanic rocks  
Ec<sub>1</sub> Volcanic rocks of Island Mountain, sedimentary rocks
- Mesozoic Sedimentary and Volcanic Rocks**
- Kva<sub>1</sub> Midnight Peak Formation, Volcanic Member  
Kca<sub>1</sub> Midnight Peak Formation, Ventura Member  
Kvc<sub>1</sub> Midnight Peak Formation, undivided  
Kcw<sub>1</sub> Winthrop Sandstone  
Kmv<sub>1</sub> Virginian Ridge Formation, <40 percent conglomerate  
Kcp<sub>1</sub> Virginian Ridge Formation, >40 percent conglomerate  
Ksw<sub>1</sub> Winthrop Sandstone/Virginian Ridge Formation, undivided  
Kmp<sub>1</sub> Harts Pass Formation  
Kmp<sub>2</sub> Panther Creek Formation  
Kmc<sub>1</sub> Goat Creek Formation  
Kvs<sub>1</sub> Buck Mountain Formation  
Kva<sub>1</sub> Andesite of Isabella Ridge  
Kvs<sub>1</sub> Newby Group  
Jm<sub>1</sub> Twisp Formation  
Jm<sub>1</sub> Ladner Group

**INTRUSIVE IGNEOUS ROCKS**

- Tertiary Intrusive Igneous Rocks**
- Tertiary Hypabyssal Intrusive Rocks**
- Eida<sub>1</sub> Dacite plugs and dikes near Island Mountain  
Eib<sub>1</sub> Basalt of Middle Mountain  
Eid<sub>1</sub> Andesite(?) dikes near Goat Wall  
Eid<sub>1</sub> Rhyolite dikes near Diamond Creek
- Tertiary Plutonic Rocks**
- Eig<sub>1</sub> Golden Horn batholith  
Eig<sub>2</sub> Monument Peak stock  
Eig<sub>3</sub> Castle Peak stock, central phase  
Eig<sub>4</sub> Castle Peak stock, border phase  
Eig<sub>5</sub> Lost Peak stock
- Tertiary-Cretaceous Intrusive Igneous Rocks**
- Tertiary-Cretaceous Hypabyssal Intrusive Rocks**
- Kca<sub>1</sub> Basalt dikes near Cathedral Creek  
Kca<sub>2</sub> Dacite dikes near Rammel Lake
- Tertiary-Cretaceous Plutonic Rocks**
- TKi<sub>1</sub> Tertiary-Cretaceous intrusive igneous rocks, undivided  
TKi<sub>2</sub> Plagioclase porphyry stock near Heather Creek
- Mesozoic Intrusive Igneous Rocks**
- Mesozoic Hypabyssal Intrusive Rocks**
- Kia<sub>1</sub> Cretaceous dacite and andesite plugs, sills, and dikes
- Mesozoic Plutonic Rocks**
- Kigd<sub>1</sub> Rock Creek stock  
Kigd<sub>2</sub> Pasayten stock  
Kil<sub>1</sub> Fawn Peak stock  
Kil<sub>2</sub> Quartz monzonite near Ewarts Creek  
Kil<sub>3</sub> Cathedral batholith, granodiorite  
Kil<sub>4</sub> Cathedral batholith, quartz monzonite  
Kil<sub>5</sub> Park granite stock  
Kid<sub>1</sub> Lightning Creek stocks  
Kid<sub>2</sub> Diorite near Middle Creek  
Kig<sub>1</sub> Ashnola Gabbro  
Kil<sub>1</sub> Trondhjemite of Doe Mountain  
Kil<sub>2</sub> Trondhjemite of Bald Mountain  
Jil<sub>1</sub> Button Creek stock

**Metamorphic Rocks**

- Orthogneisses**
- Klog<sub>1</sub> Trondhjemite of Lamb Butte  
Klog<sub>2</sub> Trondhjemite of Eightmile Creek  
Klog<sub>3</sub> Mylonitic rocks along the Pasayten fault  
Klog<sub>4</sub> Metagabbro near Ramsey Creek
- Mixed Metamorphic and Igneous Rocks**
- Kjmi<sub>1</sub> Gneissic trondhjemite of Tiffany Mountain  
Kjmg<sub>1</sub> Migmatitic rocks near Spanish Creek
- Layered Metamorphic Rocks**
- plbg<sub>1</sub> Granodiorite gneiss complex of the Quartz Mountain area  
plam<sub>1</sub> Hornblende gneisses of the Sheep Mountain area

**EXPLANATION**

- Contact - long dashed where approximately located; queried where uncertain
- /// Contact - gradational
- - - Limit of geologic compilation
- - - Fault - dashed where approximately located; dotted where concealed
- - - Fault - ball and bar on downthrown side
- - - Fault - showing relative horizontal movement
- - - Thrust fault - sawtooth on upper plate; long dashed where approximately located
- - - Anticline - dotted where concealed
- - - Overturned anticline - showing direction of dip of limbs
- - - Syncline - dotted where concealed
- - - Overturned syncline - showing direction of dip of limbs
- Strike and dip of beds
- Strike and dip of overturned beds
- Strike of vertical beds
- Strike and dip of foliation
- Variable strike and dip of inclined foliation
- Strike of vertical foliation
- Strike and dip of compositional layering
- Moderately to steeply inclined
- Approximately vertical
- Bearing and plunge of lineation
- Note: planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation
- Radiometric age (see Table 1)

**GEOLOGIC MAP OF THE ROBINSON MTN. 1:100,000 QUADRANGLE, WASHINGTON**

Compiled by

**KEITH L. STOFFEL and MICHAEL F. McGRODER**

**February 1990**