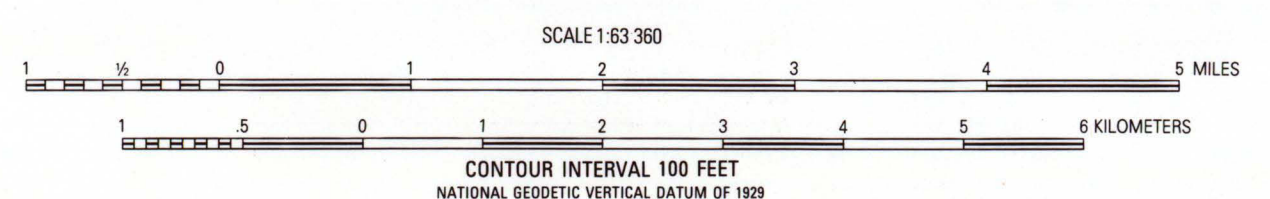
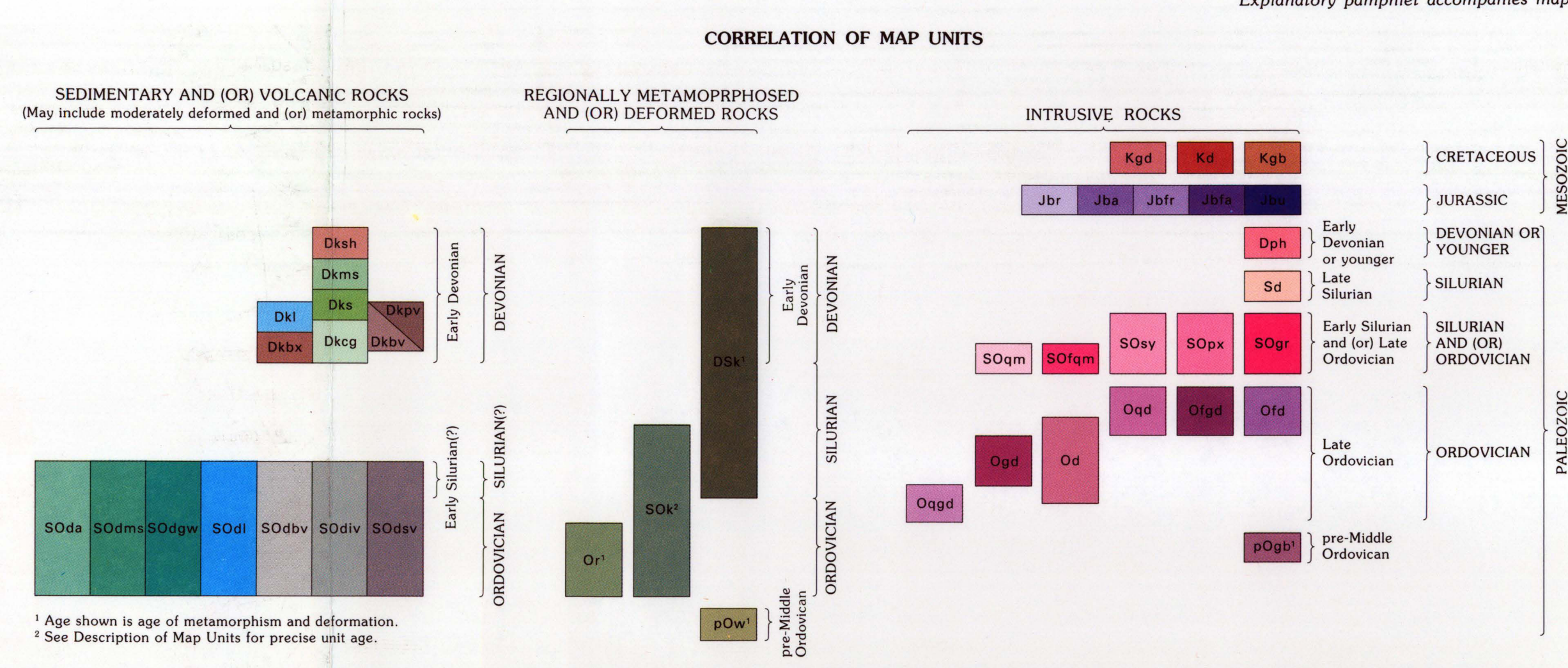


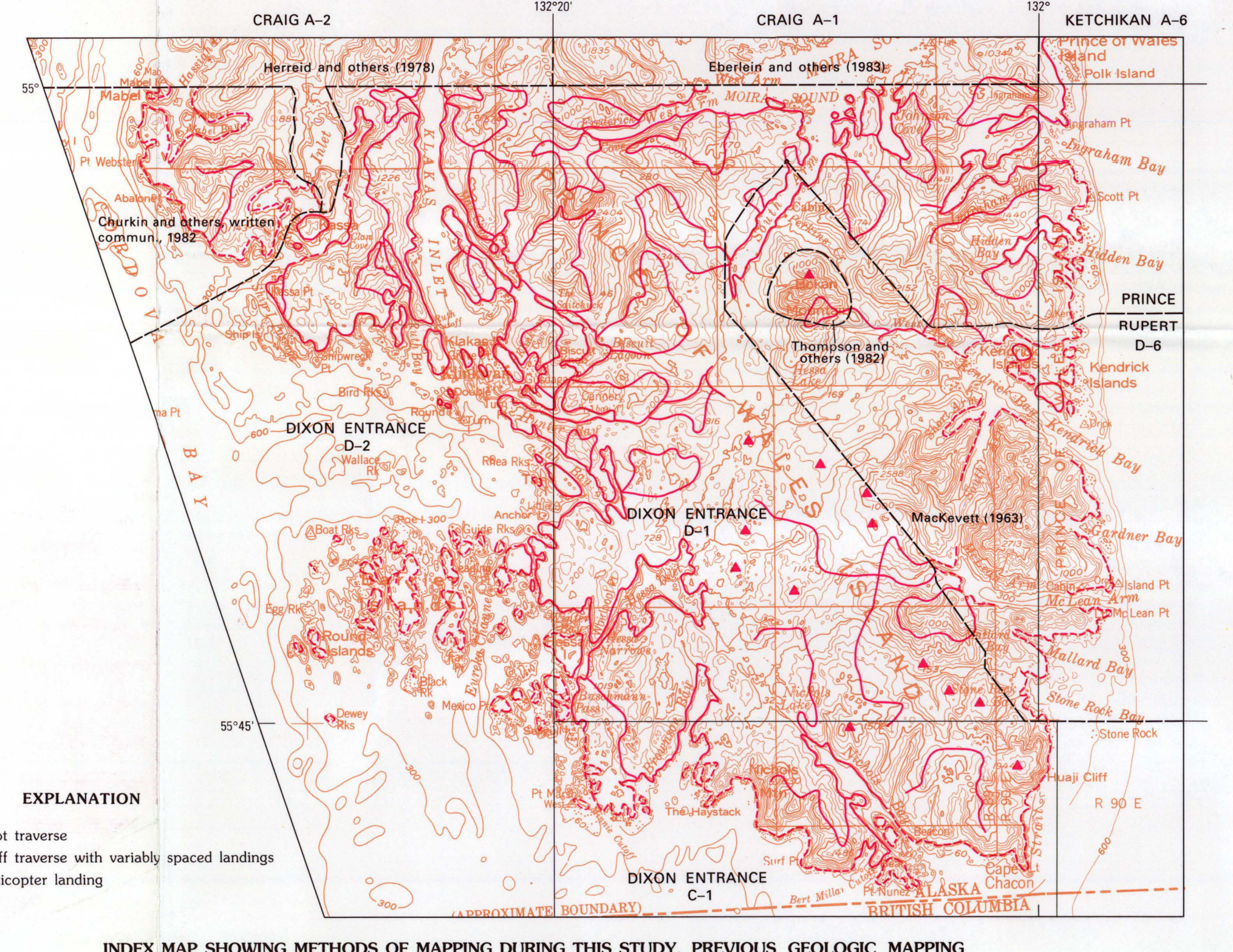
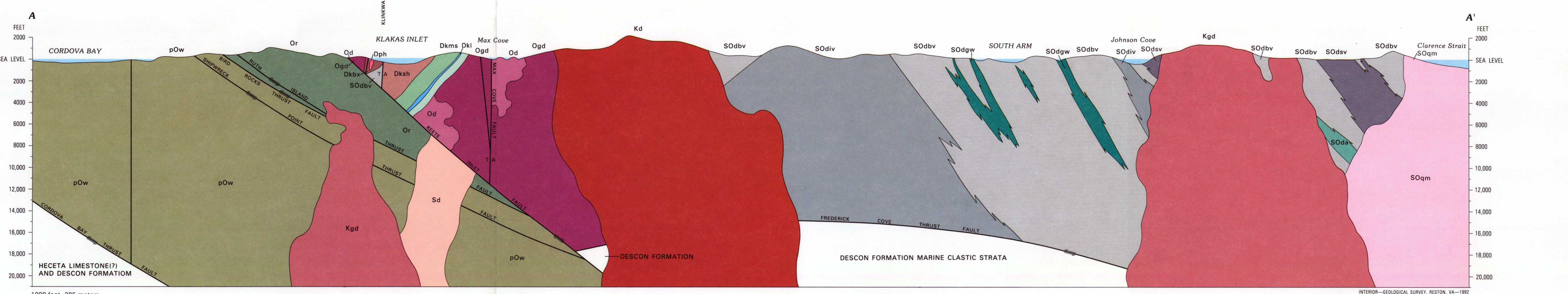
Base from U.S. Geological Survey, Craig (A-1), Dixon Entrance (C-1), Dixon Entrance (D-1), Ketchikan (A-6), 1948; Craig (A-2), Dixon Entrance (D-2), Prince Rupert (D-6), 1951



Geology mapped by G. E. Gehrels, 1982-85; assisted by J. B. Selsky, H. C. Berg, and R. Turner, 1982. Edited by Carol Osterpen. Manuscript approved for publication, March 3, 1990.



- LIST OF MAP UNITS**
(See pamphlet for complete and descriptive)
- SEDIMENTARY AND (OR) VOLCANIC ROCKS**
(May include metamorphosed and/or deformed rocks)
- Dksh Karheen Formation (Early Devonian)—Divided into:
 - Dksh Shale
 - Dkms Mudstone and siltstone
 - Dks Sandstone
 - Dkl Limestone
 - Dkvp Plagioclase-porphyritic volcanic rocks
 - SOdm Conglomeratic rocks
 - SOdb Sedimentary breccia
 - SDs Devonian Formation (Early Silurian(?) and Ordovician)—Divided into:
 - SOdm Argillite and shale
 - SOdv Banded mudstone and siltstone
 - SOdvw Greywacke
 - SOdl Limestone
 - SOdsv Basaltic to andesitic volcanic rocks
 - SOdiv Intermediate (andesitic to dacitic) volcanic rocks
 - SOdsv Silicic (dacitic to rhyolitic) volcanic rocks
 - REGIONALLY METAMORPHOSED AND (OR) DEFORMED ROCKS
 - KIAS Klakas Inlet assemblage (Early Devonian and Silurian?)
 - KBs Kendrick Bay assemblage (Early Silurian and Ordovician)
 - OR Ruth Bay assemblage (Ordovician)
 - POw Wales Group (pre-Middle Ordovician)
 - INTRUSIVE ROCKS
 - Kgd Granodiorite (Cretaceous)
 - Kd Diorite (Cretaceous)
 - Kab Gabbro (Cretaceous)
 - Jbr Bikan Mountain Granite (Jurassic)—Divided into:
 - Jbr Riebeckite granite porphyry
 - Jba Argelite granite porphyry
 - Jbrv Fine-grained riebeckite granite porphyry
 - Jbrg Felsy-argelite granite
 - Jbrg Granite, undivided
 - Dph Plagioclase-porphyritic hypabyssal rocks (Early Devonian or younger)
 - Sd Leucodiorite (Late Silurian)
 - SOsv Quartz syenite and granite (Early Silurian and/or Late Ordovician)
 - SOpx Pyroxenite and hornblende (Early Silurian and/or Late Ordovician)
 - SOgr Granite (Early Silurian and/or Late Ordovician)
 - SOqm Quartz monzonite and granite (Early Silurian and/or Late Ordovician)
 - SOqmv Foliated quartz monzonite (Early Silurian and/or Late Ordovician)
 - Oqd Quartz diorite and diorite (Late Ordovician)
 - Odv Foliated granodiorite (Late Ordovician)
 - Odi Foliated and layered diorite and quartz diorite (Late Ordovician)
 - Od Diorite (Ordovician)
 - Ogd Leucogranodiorite (Middle Ordovician)
 - Oqgd Quartz-porphyritic granodiorite (Middle Ordovician)
 - POgb Metagabbro (pre-Middle Ordovician)
- EXPLANATION**
- Contact—Dashed where approximately located; queried where poorly constrained; dotted where concealed. May show dip.
 - Faults—Dashed where approximately located; queried where poorly constrained; dotted where concealed. May show dip.
 - Fault inferred from aerial photographs
 - Strike-slip—Arrows indicate relative direction of movement. In cross section, T, toward observer; A, away from observer.
 - Thrust—Sawtooth on upper plate.
 - Normal—Hachures on upper plate.
 - Fault of unknown sense of displacement
 - Strike and dip of bedding
 - Inclined—Showing top of bed where known
 - Inclined
 - Vertical
 - Overturned
 - Strike and dip of foliation
 - Inclined
 - Vertical
 - Trend and plunge of mineral lineation
 - Trend and plunge of elongation fabric
 - Folds—May show direction of plunge
 - Syncline
 - Anticline
 - Overturned anticline
 - Minor folds
 - Beach deposit
 - Cataclastic brecciation
 - Semichistose deformation fabric
 - T Tuff
 - Tb Tuff breccia
 - P Pillow basalt
 - Pb Pillow breccia
 - SR Silicic volcanic rock
 - L Limestone or marble
 - A Argillite or shale
 - M Mineralized rock
 - Geochronologic sample locality—See table 2
 - Paleontologic sample locality—See table 1
- Note: Planar symbols may be combined with linear symbols to record data observed at same locality.



GEOLOGIC MAP OF THE SOUTHERN PRINCE OF WALES ISLAND, SOUTHEASTERN ALASKA

By
George E. Gehrels
1992