

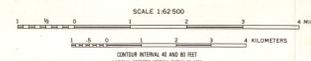
- LIST OF MAP UNITS**
- Qal Alluvium (Quaternary)
 - Qm Mixed deposits (Quaternary)
 - Ta Granite and related rocks of the Snoqualmie batholith (Miocene)
 - Tb Breccia dikes (Oligocene?)
 - Tc Volcanic rocks (Oligocene?)
 - Td Volcanic rock of Cathedral Peak (Oligocene?)
 - Te Naches Formation (Eocene)
 - Tf Ductile dike (Eocene)
 - Tg Mount Catherine Rhyolite of Foster, 1960 (Eocene)
 - Th Guye Formation (Eocene)
 - Ti Sausal Formation (Pliocene)
 - Tj Granite rocks of the Mount Stuart batholith (Cretaceous)
 - Tk Metasedimentary rock (Cretaceous)
 - Tl Amphibolite (Cretaceous)
 - Tm Intermediate porphyry (Cretaceous)
 - Tn Metagabbro (Pre-Cretaceous)
 - Ua Serpentinized peridotite of Ingalls Creek (Pre-Cretaceous)
 - Ub Older volcanic rocks (Pre-Cretaceous)
 - Uc Gneiss and hornfels (Pre-Cretaceous)
 - Ud Limestone and hornfels (Pre-Cretaceous)
 - Ue Shale (Pre-Cretaceous)
 - Uf Phylite (Pre-Cretaceous)
 - Ug Mafic rocks (Pre-Cretaceous)
 - Uh Eaton Schist (Pre-Cretaceous)
 - Ui Chawauk Schist of Van Diver, 1968 (Pre-Cretaceous)

- Contact—Long dashed where approximately located; short dashed where inferred; dotted where concealed
- Faults—Long dashed where approximately located; short dashed where inferred; dotted where concealed
- Normal fault—U, upthrown side; D, downthrown side
- Thrust fault—Sawtooth on upper plate
- Folds—Long dashed where approximately located; short dashed where inferred
- Anticline—Showing crest
- Syncline—Showing trough and plunge
- Strike of axial planes of folds in false showing direction of plunge of axes
- Strike and dip of beds
- Inclined
- Vertical
- Overturned
- Strike and dip of foliation
- Inclined
- Vertical
- Area of altered and (or) iron-stained rock—Commonly contains disseminated sulfide minerals
- Area of intensely sheared rock
- Approximate boundary
- Original Alpine Lakes study area
- Additions to the Alpine Lakes study area
- Magnetic contours—Showing total intensity of earth's magnetic field in gamma relative to magnetic datum of 54,000 gamma for zero contour; the total intensity of the earth's magnetic field is 54,000 gamma; magnetic contours show areas of lower magnetic intensity. Dashed in areas of poorer control. Contour intervals 20 and 100 gamma.
- Maximum or minimum intensity—Location measured within closed high or closed low
- Flight path—Showing location and spacing of data



- Geology modified by Galtner and Sammons from the following sources:
1. Page (1939)
 2. Plummer (1959)
 3. Southwick (1962)
 4. Pratt (1954, 1958)
 5. Ellis (1959)
 6. Galtner (1956)
 7. Erickson (1958)
 8. Smith and Collins (1966)
 9. Foster (1967)
 10. Foster (1960)
 11. Bechal (1963)
 12. Plummer (1964)

Scale from U.S. Geological Survey
Revised and enlarged by U.S. Geological Survey, Washington, D.C.
and Washington State Department of Geology, Olympia, Wash.
Original source: Washington State Department of Geology, Olympia, Wash.
Scale 1:62,500



Geologic map of Washington
Scale 1:62,500
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GEOLOGIC AND AEROMAGNETIC MAP OF THE ALPINE LAKES STUDY AREA AND ADDITIONS, CHELAN, KING, AND KITTITAS COUNTIES, WASHINGTON