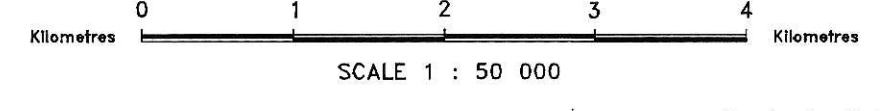


Geological Survey Branch
GEOSCIENCE MAP 1993-4

**GEOLOGY OF THE SCUD GLACIER AREA,
NORTHWESTERN B.C.**

NTS 104G/6

By D.A. Brown and M.H. Gunning



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| <p>STRATIFIED ROCKS</p> <p>QUATERNARY</p> <p>Qal Alluvium, glacial till, unconsolidated glaciofluvial deposits</p> <p>LOWER TO MIDDLE JURASSIC</p> <p>HAZELTON GROUP</p> <p>Ljgl Polymictic conglomerate</p> <p>UPPER TRIASSIC</p> <p>STUHNH GROUP</p> <p>UTS Undifferentiated volcanic and sedimentary rocks; argillite (arg); micritic limestone (L); limestone breccia/conglomerate (lbc); tuffaceous wacke (tw)</p> <p>UTSs Sedimentary rocks, undifferentiated</p> <p>UTSs2 Upper Norian - Quattrin facies Thin to thick-bedded, buff, grey, green & mauve sandstone, siltstone & argillite; minor shale & fossiliferous shale with abundant <i>Monotis</i> subcirculata; discontinuous limestone lenses (up to 30m thick) with middle to late Norian corodonts (L2);</p> <p>UTSv Volcanic rocks, undifferentiated; volcanic breccia (vbx); maroon volcanic breccia (mvbx); andesite (and); clinopyroxene pyritic basalt (pbas); maroon aplite (mep); limestone (lsc); shyllite (shy); polymictic conglomerate containing augite porphyry, granitoid and rare limestone, siltstone and siliceous tuff clasts (hcg)</p> <p>UPPER TRIASSIC (OR OLDER ?)</p> <p>UTSmv Metamorphosed rocks (Stuhni Group?); foliated to massive metavolcanic rocks; biotite schist (b sch), chert (chert), chlorite schist (ch sch), siliceous rock (sil. rx.)</p> <p>UPPER PERMIAN</p> <p>PALEOZOIC STIKINE ASSEMBLAGE</p> <p>UPS Undifferentiated sedimentary rocks; graphitic argillite (uPSa), black, red and green chert (uPSc), green tuffaceous siltstone, sandstone and greywacke (uPSs)</p> <p>LOWER TO UPPER PERMIAN</p> <p>IPSc Maroon tuffaceous limestone</p> <p>IPSc Dark to light grey and black calcarenite with minor chert layers and nodules, locally bioclastic, minor argillite (a), maroon and green plagioclase crystal lithic tuff, mudstone, (m) and green tuffaceous siltstone</p> <p>IPSa Pyrite & pyrrhotite-bearing argillite and siltstone</p> <p>UPPER CARBONIFEROUS TO LOWER PERMIAN</p> <p>UCSf Bedded to laminated arenitic ash tuff and tuffaceous siltstone, varicoloured chert, buff calcareous siltstone</p> <p>PALEOZOIC (OR UPPER TRIASSIC)</p> <p>UCSt Foliated to massive siltstone, conglomerate, andesite, crystal lithic lapilli tuff</p> <p>UPPER CARBONIFEROUS</p> <p>UCSa Foliated argillite, siltstone, calcareous siltstone and conglomerate; recrystallized limestone (lsc)</p> <p>UCSv Foliated, chloritic, pyroxene-plagioclase pyritic andesite flows and/or sills, crystal tuff and lithic lapilli tuff; recrystallized limestone (lsc)</p> <p>INTRUSIVE ROCKS</p> <p>TERTIARY AND OLDER DIKES</p> <p>Andesite (A); basalt (B); felsite (F); dark green, pyroxene-phyric olivine basalt (M); rhyolite (R); syenite (S)</p> <p>TERTIARY (? OR EARLY JURASSIC)</p> <p>agd Chlorite-altered, plagioclase-phyric granodiorite</p> <p>Eocene - HYDER SUITE</p> <p>Egn Well-jointed, medium to coarse-grained (hornblende) biotite granite (gn); locally K-feldspar megacrystic (<5%; gnk); equigranular, medium-grained hornblende-biotite granodiorite (gd); K-feldspar megacrystic granodiorite (gdk); felsite (f)</p> <p>MIDDLE JURASSIC - THREE SISTERS SUITE</p> <p>wjgn Pink, medium-grained hornblende biotite granite (gn); minor quartz monzonite (qm); quartz monzoniorite (mq); granodiorite (gd)</p> <p>LATE EARLY JURASSIC - CONE MOUNTAIN SUITE</p> <p>lJgd Equigranular, medium-grained (biotite) hornblende granodiorite (gd); quartz monzoniorite (qm)</p> <p>MIDDLE TO LATE TRIASSIC - STIKINE SUITE</p> <p>LTd Coarse-grained, plagioclase-megacrystic, magnetite-bearing hornblende quartz diorite</p> <p>LTm Heterogeneous quartz monzonite(qm), foliated to massive hornblende biotite granodiorite (gd), monzoniorite, quartz diorite, diorite</p> <p>LTg Heterogeneous, fine to medium-grained hornblende gabbro and hornblende</p> <p>MIDDLE TO LATE TRIASSIC</p> <p>LT Medium to coarse-grained olivine clinopyroxenite (cpx); dunite (du); clinopyroxene gabbro, gabbro (gab)</p> | <p>Geological boundary</p> <p>defined _____</p> <p>approximate _____</p> <p>assumed _____</p> <p>Unconformity</p> <p>defined _____</p> <p>approximate _____</p> <p>assumed _____</p> <p>High-angle fault, surface trace, trend and plunge of slickensides indicated by arrow; solid circle on downthrown side</p> <p>defined _____</p> <p>approximate _____</p> <p>assumed _____</p> <p>Contractional fault-surface trace; teeth in direction of dip</p> <p>defined _____</p> <p>approximate _____</p> <p>assumed _____</p> <p>Cross-section line</p> <p>Bedding: tops unknown, g=gentle, m=moderate, s=steep</p> <p>Bedding: tops unknown, inclined, parallel to foliation, vertical</p> <p>Bedding: tops observed, inclined, overturned</p> <p>Foliation: inclined, vertical, m=mylonitic</p> <p>Dike: inclined, vertical; composition indicated by abbreviation</p> <p>Vein: inclined, vertical (q=quartz)</p> <p>Joint: inclined, vertical</p> <p>Antiformal axis</p> <p>Synformal axis</p> <p>Overturned synclinal axis</p> <p>Axial plane of minor fold: inclined, vertical</p> <p>Fold axis of minor fold (arrow indicates plunge)</p> <p>m, s, and z asymmetry</p> <p>Glacial strike (undetermined direction of movement)</p> <p>Dike swarm</p> <p>Fossil location; age determined (with GSC number)</p> <p>macrofossil; conodonts; fusulinids; radiolaria</p> <p>Fossil location; age indeterminate; macrofossil, barren conodont sample</p> <p>Field station with no structural measurement</p> <p>Landslide scar</p> <p>Diamond drill hole</p> <p>Hand trench</p> <p>MINFILE mineral occurrence, developed prospect with number (104G...)</p> <p>isotopic age locality (A/R, h=hornblende)</p> <p>b=biotite, w=whole rock, Rb/Sr</p> <p>h, h</p> <p>Limonic-altered zone (shown as grey tone)</p> |
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