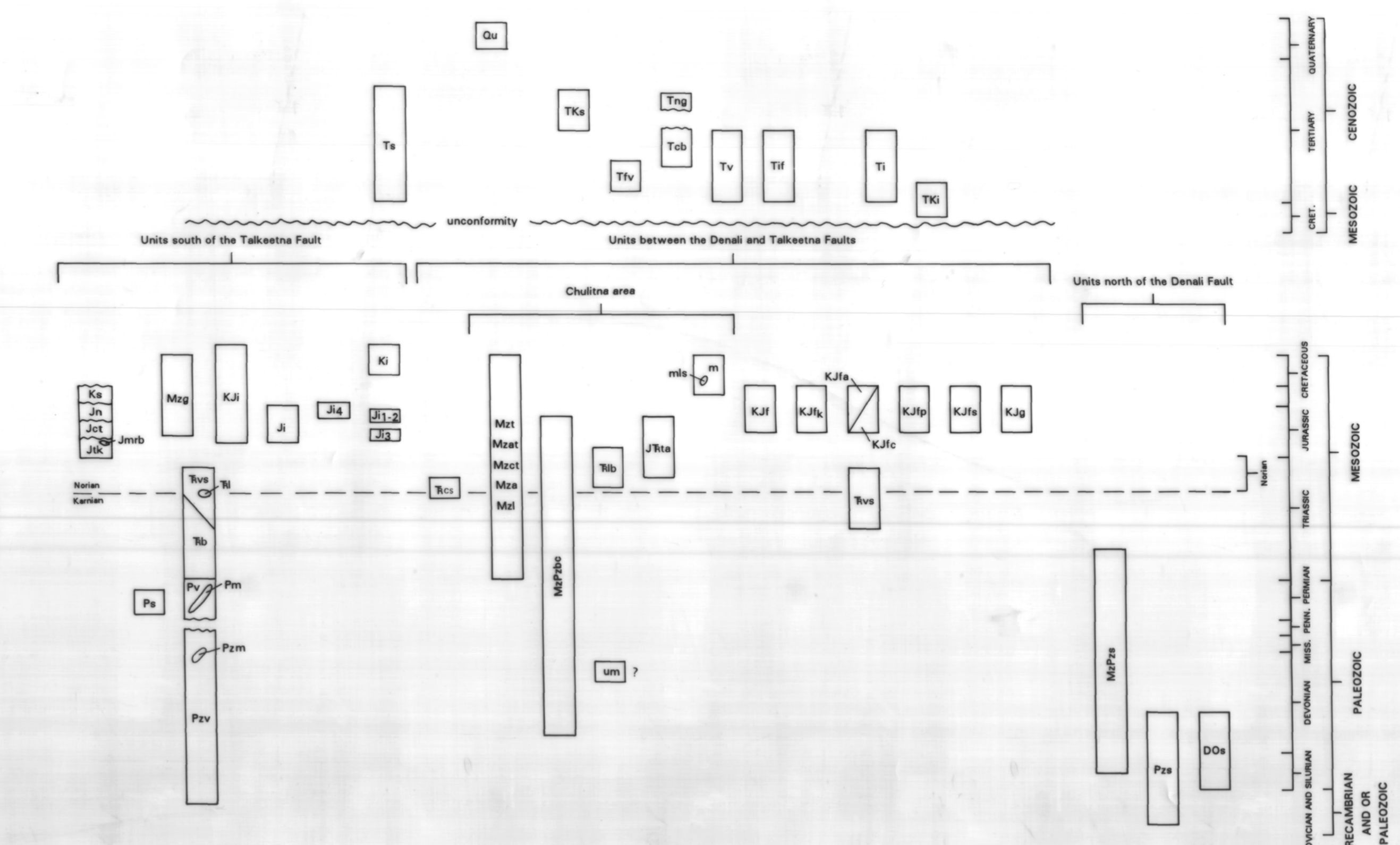




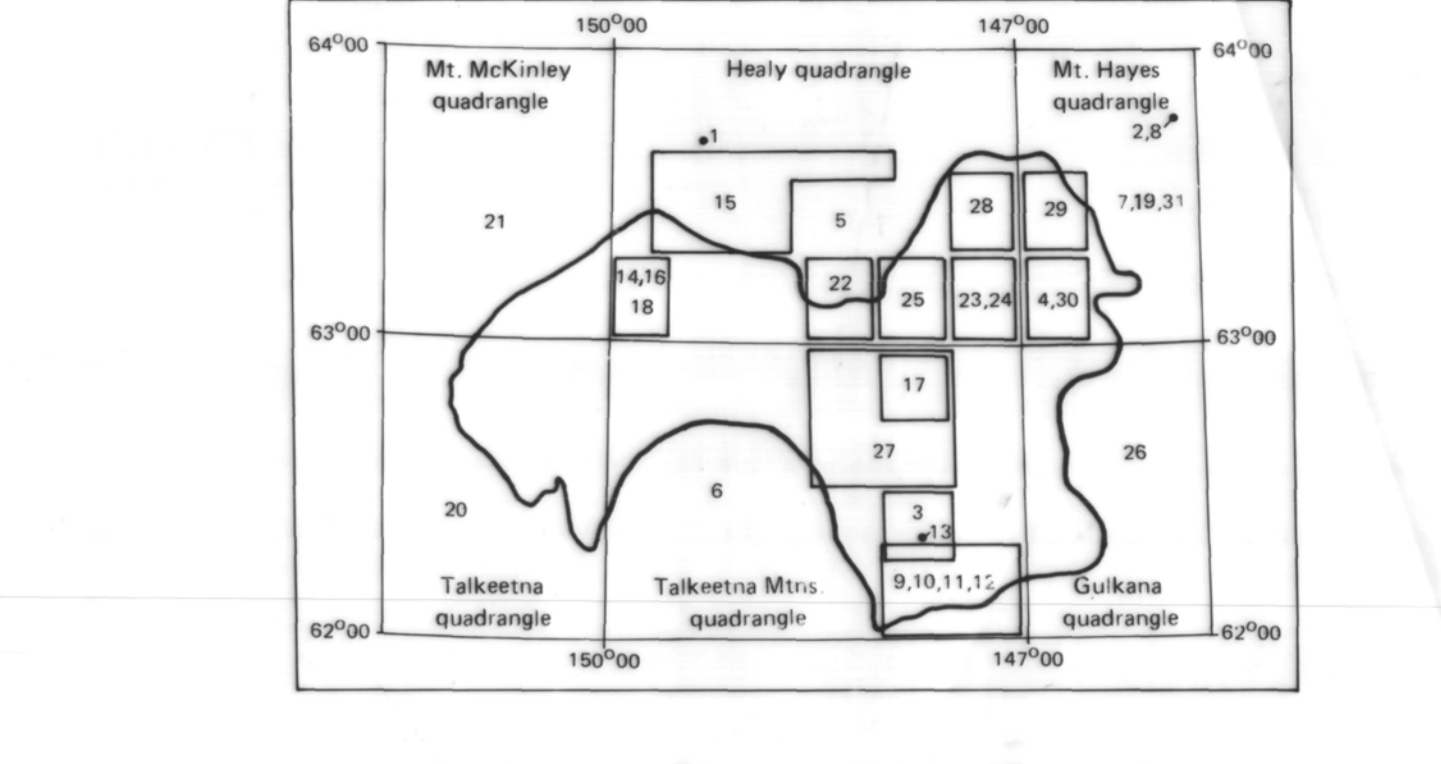
CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

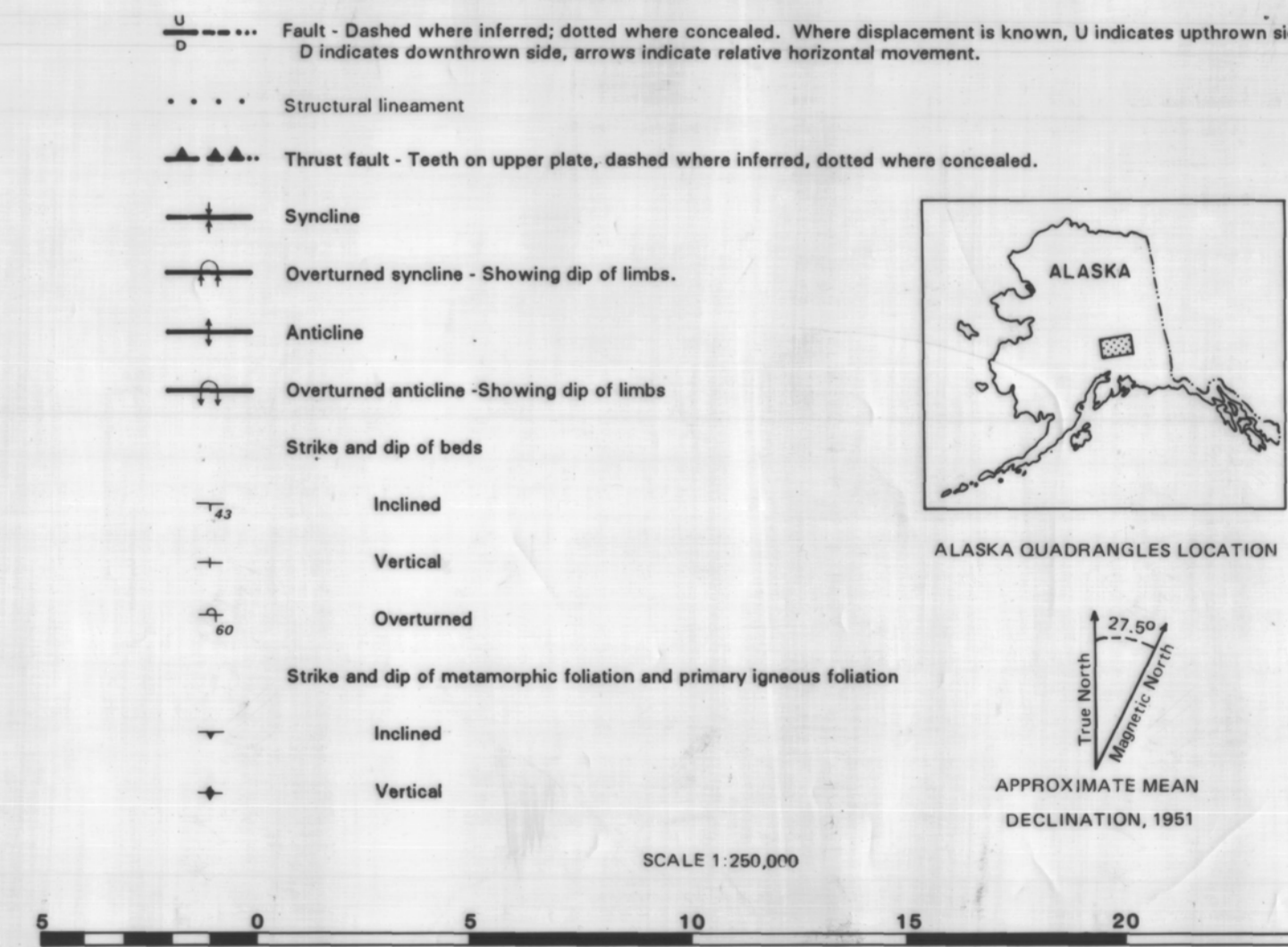
- Units north of the Denali Fault**
- MPr: METAMORPHIC CALCAREOUS SEDIMENTARY ROCKS (Triassic to Silurian). Polydeformed, fine to medium-grained calc-schist, marble, quartzite, and pelitic schist. Ductile metamorphism and deformation trace into mylonitic schist along an older zone of upper amphibolite facies metamorphism. See also map of the Denali area (Clautice, 1989).
- Pr: SCHISTOUS SEDIMENTARY ROCKS (Devonian to Permian). Polydeformed pelitic schist, quartz schist, and coarse quartzite, and calc-schist. Ductile to brittle deformation and regional metamorphism of lower and middle greenschist facies (greenschist to amphibolite facies). See also map of the Denali area (Clautice, 1989).
- DO: SEDIMENTARY SEQUENCE - Medium to dark gray, gradationally bedded to laminated, medium to coarse-grained sandstone to black siltstone, calcareous sandstone, and calcareous shale. Includes a thin bedded limestone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Units between the Denali and Taliterna Faults**
- Tp: TENANA GRAVEL (Eocene?) and Pliocene - Poorly consolidated, buff to reddish-brown. Partially composed of pebbles to boulders of quartzite and calcareous sandstone with some matrix deposits. See also map of the Denali area (Clautice, 1989).
- Tb: COAL-BEARING ROCKS (Eocene?) - Tertiary cyclic sequence of siltstone, sandstone, shale, and lignite. Includes a thin bedded lignite. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Ta: KENAI GROUP, unroofed (Eocene and Pliocene) - Fluvial sedimentary rocks consisting of sandstone and siltstone. Includes a thin bedded lignite. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Tv: FELSIC SUBVOLCANIC INTENSIVE ROCKS - Dikes and small hypabyssal intrusive bodies with abundant associated igneous rocks. Rhyolite, quartz diorite, and andesite. Includes a thin bedded rhyolite. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- ms: LIMESTONE - Medium gray, generally medium-bedded and sandy massive. Fine to medium-grained limestone. Includes a thin bedded limestone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- m: MELANGE - High metamorphic grade (greenschist to amphibolite facies) rocks. Includes a thin bedded melange. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kj: ONES AND HIGH-GRADE SCHIST - Layered pelitic, gneiss and schist with abundant biotite, garnet, and sillimanite. Subvolcanic igneous and siltstone. Includes a thin bedded schist. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Ks: FLYSCH SEQUENCE - Coarsely graded, calcareous sandstone, siltstone, and shale. Includes a thin bedded flysch. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kt: SCHIST - Biotite pelitic schist. Local rare megacrystic amphibole. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kp: PHYLLITE - Medium to dark gray siltstone. Spreading due to prograde metamorphism. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kf: ARGILLITE - Black to olive gray siltstone, and graywacke. Moderately bedded. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kc: CONGLOMERATE AND SANDSTONE - Slightly metamorphosed, unroofed conglomerate, siltstone, sandstone, and shale. Conglomerate consists of sand, siltstone, siltstone, and shale. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Kb: CRITICAL TUFF, ARGILLITE, CHESTNUT, GRAYWACKE, AND LIMESTONE in Early Permian, generally to Late Permian. Includes a thin bedded limestone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Ka: CALCAREOUS SEDIMENTARY ROCKS (Late Triassic) - Thinly bedded limestone, quartzite, black shale, and calc-schist. Includes a thin bedded limestone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Jo: VOLCANIClastic SEDIMENTARY, VOLCANIC - Gray-green siltstone, calc-schist, graywacke, black argillite, tuff, and andesite. Includes a thin bedded argillite. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Jb: LIMESTONE AND BASALT (Late Triassic and Early Jurassic) - Limestone is medium gray, massive to block bedded and locally shaly. Basalt is black to dark gray. Includes a thin bedded limestone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Ma: CLASTIC TUFF - Gray-green, red-weathering tuff and fine-grained, sandy wacke. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Mm: AQUIFEROUS TUFF - Pink-tan, very fine-grained, laminated silt. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Mn: CONGLOMERATE AND TUFF - Red-weathering, very coarse-grained conglomerate interbedded with argillite. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Ma: ARGILLITE - Dark gray to black argillite and fine-grained siltstone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Mt: LIMESTONE - Medium gray, massive to block bedded. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- MPr: BASALT AND CONGLOMERATE - Basalt is black to dark gray. Conglomerate is blocky basalt (probably andesitic) with fine sandstone previously interpreted as siltstone, and some laminated blocky conglomerates. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Units south of the Taliterna Fault**
- Ts: CONGLOMERATE, SANDSTONE - Unconsolidated, unroofed conglomerate, siltstone, sandstone, and shale. Includes a thin bedded conglomerate. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.
- Tv: VOLCANIC FLOWS, PYROCLASTICS, AND SUBVOLCANIC INTENSIVES - Compositely exposed siltstone, shale, sandstone, and shale. Includes a thin bedded siltstone. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic. Lithology of the sequence suggest continental margin-type deposits from the top of the Paleozoic.

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EXPLANATION OF MAP SYMBOLS



GEOLOGIC MAP OF THE VALDEZ CREEK MINING DISTRICT

Compiled by
K.H. Clautice
1990

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