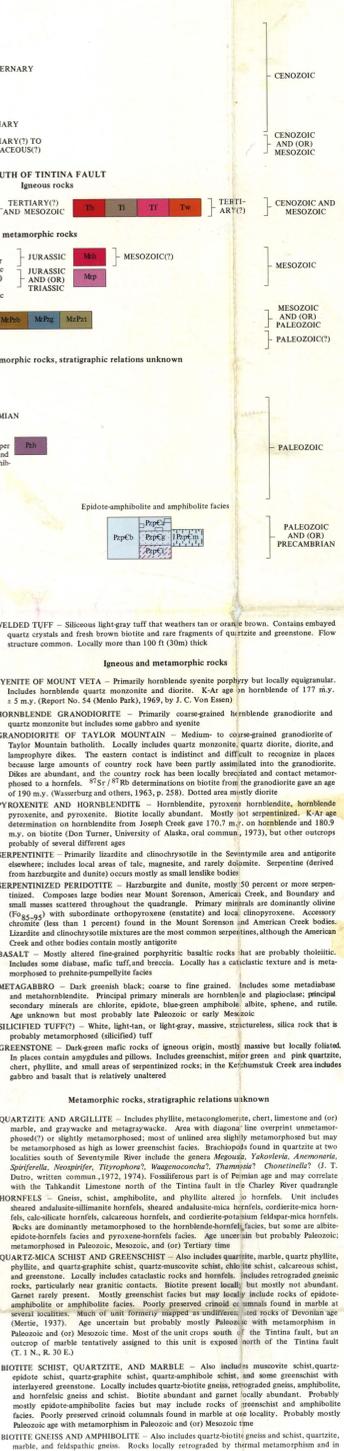


DESCRIPTION OF MAP UNITS

- Qa** ALLUVIUM - Sand, gravel, and silt along major streams; includes low terraces. Locally contains organic soil and peat, glacial outwash, and eroded glacial deposits.
- Qc** ALLUVIUM AND COLLUVIUM - Primarily sand, gravel, and silt in stream valleys and fine to coarse colluvium in basins of valleys and on slopes of valley sides. Tuffs, including tuff cones in the more rugged mountain areas, alluvial fan deposits, till, debris outwash, lake deposits, organic silt, and peat locally included.
- Qd** LANDSLIDE DEPOSITS - Mixed coarse and fine unconsolidated debris deposited by landslides and (or) earthflows. Hilly topography with ponds and small lakes characteristic. Small areas of such deposits not mapped.
- Qe** INTERMEDIATE AND HIGH TERRACE DEPOSITS - Silt, sand, and gravel. Gravel commonly coarse and poorly sorted; stratification poor to good. Windblown silt and sand locally mantle terrace deposits, particularly along the Yukon River. The Forty-mile and Seventy-mile Rivers are deeply entrenched, soil bound, gently sloping terrace remnants, some as high as 700 ft. (210-metre) present streams, are common.
- Qf** MORAINAL DEPOSITS - Silty sand, gravel, and boulders. Locally includes colluvial material. Mostly and occasionally but includes some lateral and ground moraine material in crevices, and occasional remnants of moraines. Young moraines have typical hummocky topography with numerous undulating depressions and many large unweathered boulders on the surface. Many moraines are crescent shaped and extend completely across the valleys. Older moraines have been modified and have smoother surfaces with weathered and widely scattered boulders. Some moraines have almost completely lost their original topographic expression and are represented only by patches of weathered till. These deposits were produced by small alpine Pleistocene. They are probably Illinoian in age.
- Ts** SANDSTONE, CONGLOMERATE, AND TUFF - Includes shale and lignitic coal; nonmarine; folded and faulted. In the Chitken area, rock types are dominantly yellowish sandstone, ferruginous sandstone, conglomeratic sandstone, shale and tuffaceous shale, and lignitic coal. Cobble and boulders of a black glassy siliceous tuff that contains abundant plant fossils also occur. Where attitudes can be determined, the rocks are steeply dipping or vertical. In the vicinity of the Walker Fork and Nopokook Creek, a well-indurated conglomerate and breccia at the base is overlain by sandstone, shale, 1-inch-thick (3-centimetre) lignitic coal beds, siltstone, and laminated siltstone. In the vicinity of Baby Creek, coarse conglomerate is the dominant rock type with a few interbedded layers of sandstone and shale. Layers of Mesozoic siltstone, sandstone, and shale are present in the vicinity of the Walker Fork and Nopokook Creek. In places these rocks apparently cover the trace of the Tintina fault, but in the vicinity of Bailey and Fluor Creeks they are crushed and brecciated along the postulated trace of the fault.
- Tkd** DETRITAL ROCKS - Conglomerate, sandstone, mudstone, shale, breccia and lignite, nonmarine. Folded and faulted. Basal part of the conglomerate near American Creek contains large (more than 2 ft (60 cm) in diameter) poorly rounded boulders of local origin, including stratified ultramafic rock. However, most of the conglomerate consists of well-rounded clasts 1 to 5 inches (2 to 13 cm) in diameter in a quartzose matrix. Clasts are dominantly quartzite and chert, particularly black chert. Pollen and poorly preserved plant fragments and impressions in sandstone, mudstone, and shale indicate that the rocks may range in age from Late Cretaceous to Pliocene. In places these rocks apparently cover the trace of the Tintina fault, but in the vicinity of Bailey and Fluor Creeks they are crushed and brecciated along the postulated trace of the fault.
- PERMANIAN**
 - Pm** MAFC IGNEOUS ROCKS - Primarily basalt and gabbro but may include minor diabase and diorite. In the vicinity of Ketchikan Mountain, mixed with metabasalt and metagabbro. Columnar jointing in place. Many mafic dikes not shown on map.
 - Pmd** DIORITE - Primarily diorite quartz diorite, and diorite porphyry but may include some granodiorite and gabbro. Coarsely crystalline quartz monzonite and granodiorite plutons. Only large exposures indicated. Gray diorite and quartz diorite commonly occur in other igneous units.
 - Pmg** UNDIFFERENTIATED GRANITIC ROCKS - Primarily quartz monzonite and granodiorite but includes granite to diorite with local albite, alkalic, and pegmatite. Fine to coarse grained; equigranular to coarsely porphyritic. Biotite-hornblende quartz monzonite abundant. Cassiope crops are visible. Most of larger plutons probably Mesozoic in age, but tuff probably includes Tertiary intrusive rocks. K-Ar age determination on granodiorite in the D-3 quadrangle about 5 miles (8 km) southeast of Arctic Dome gave 89 m.y. on hornblende and 92 m.y. on biotite (Don Turner, University of Alaska, oral communication, 1973).
 - Pm** BASALT - Dark greenish black but weathers rusty brown. Fine to coarse grained; local diabasic texture. Much fractured in places and commonly cut by calcite veins. Locally exhibits spherulitic weathering. Crops out primarily beneath terrace gravel along Mowatuk Fork in the vicinity of Chitken and on benches along Stonehouse Creek.
 - Pm** INTERMEDIATE VOLCANIC ROCKS - Lava, volcanic breccia, and tuff, mostly of andesitic composition. Tan, gray, or greenish gray. Altered and weathered.
 - Pm** FELSIC IGNEOUS ROCKS - Felsic shallow intrusive rocks including porphyries, tuffs, welded tuff, and volcanic breccia. Dikes and masses of felsic igneous rocks too small to map occur throughout the quadrangle. Rocks of this unit commonly much altered and weathered; white, gray, pink, light brown, or orange brown in color. Glassy rocks are dark gray or green.
- MESOZOIC**
 - Mj** WELDED TUFF - Siliceous light-gray tuff that weathers tan or orange brown. Contains embayed quartz crystals and fresh brown biotite and rare fragments of quartzite and gneiss. Flow structure common. Locally more than 100 ft (30 m) thick.
 - Mv** SYENITE OF MOUNT VETA - Primarily hornblende syenite porphyry but locally equigranular. Includes hornblende quartz monzonite and diorite. K-Ar age on hornblende of 177 m.y. ± 5 m.y. (Report No. 54 (Menlo Park, 1969), by J. C. Von Esen).
 - Mh** HORNBLENDE GRANODIORITE - Primarily coarse-grained hornblende granodiorite and diorite. Includes local areas of felsic, magnesian, and rarely dolomitic. Serpentine (derived from hornblende and diorite) occurs mostly as small lenticle bodies.
 - Mg** SERPENTINIZED PERIDOTITE - Hornblende and diorite, mostly 50 percent or more serpentinized from hornblende and diorite. Includes local areas of talc, magnesite, and rarely dolomite. Serpentine (derived from hornblende and diorite) occurs mostly as small lenticle bodies.
 - Mp** PYROXENITE AND HORNBLENDE - Hornblende, pyroxene hornblende, hornblende, pyroxenite, and pyroxenite. Biotite locally abundant. Mostly not serpentinized. K-Ar age determination on hornblende from Joseph Creek gave 170 m.y. on hornblende and 180.3 m.y. on biotite (Don Turner, University of Alaska, oral communication, 1973), but other outcrops probably of several different ages.
 - Md** SERPENTINIZED PERIDOTITE - Hornblende and diorite, mostly 50 percent or more serpentinized from hornblende and diorite. Includes local areas of talc, magnesite, and rarely dolomite. Serpentine (derived from hornblende and diorite) occurs mostly as small lenticle bodies.
 - Mb** BASALT - Mostly altered fine-grained porphyritic basaltic rocks that are probably tholeiitic. Includes some diabase, mafic tuff, and breccia. Locally has a calcitic texture and is metamorphosed to prehnite-pumpellyite facies.
 - Mp** METAGABBRO - Dark greenish black, coarse to fine grained. Includes some metabasalt and metahornblende. Principal primary minerals are hornblende and plagioclase; secondary minerals are chlorite, epidote, blue-green amphibole, albite, sphene, and rutile. Age uncertain but most probably late Paleozoic or early Mesozoic.
 - Mp** SILICIFIED TUFF - White, light-gray, or light-gray, massive, striatulate, and locally that is probably metamorphosed (silicified) tuff.
 - Mg** GNEISS - Dark green mafic rocks of igneous origin, mostly massive but locally foliated. In places contain augenites and pillows. Includes greenschist, minor green and pink quartzite, chert, phyllite, and small areas of serpentinized rocks; in the Ketchikan Creek area includes gabbro and basalt that is relatively unaltered.
- PALEOZOIC**
 - Pn** QUARTZITE AND ARGILLITE - Includes phyllite, metaconglomerate, chert, limestone and (or) marble, and graywacke and metagraywacke. Area with diagonal line overprint unmetamorphosed (or) slightly metamorphosed; most of unit area slightly metamorphosed but may be metamorphosed as high as lower greenschist facies. Brecciated tuff in quartzite at two localities south of Seventy-mile River include the genera *Megaceras*, *Tuberosites*, *Arenosaurus*, *Sphenoceras*, *Neosphenoceras*, *Tropoceras*, *Megaceras*, *Thamnotis*, *Chonetoides* (J. T. Datto, written communication, 1972, 1974). Fossiliferous part is of Permian age and may correlate with the Tabularis Limestone north of the Tintina fault in its Chitken River quadrangle.
 - Pn** HORNfels - Gneiss, schist, amphibolite, and phyllite altered to hornfels. Unit includes sheared andalusite-sillimanite hornfels, sheared andalusite-mica hornfels, cordierite-mica hornfels, calc-silicate hornfels, calcareous hornfels, and cordierite-potassium feldspar-mica hornfels. Rocks are dominantly metamorphosed to the hornblende-hornfels facies, but some are albite-epidote-hornfels facies and some are chlorite-pyroxene-hornfels facies. Age uncertain but probably Paleozoic; metamorphosed in Paleozoic, Mesozoic, and (or) Tertiary time.
 - Pn** QUARTZ-MICA SCHIST AND GREENSCHIST - Also includes quartzite, marble, quartz phyllite, phyllite, and quartz-granulite schist, quartz-muscovite schist, siliceous schist, calcareous schist, and gneiss. Locally includes calcareous rocks and hornfels. Includes retrograded gneissic rocks, particularly near granitic contacts. Biotite present locally but mostly not abundant. Garnet rarely present. Mostly greenschist facies but may locally include rocks of epidote-amphibolite or amphibolite facies. Poorly preserved crinoid columns found in marble at one locality. Probably mostly Paleozoic age with metamorphism in Paleozoic and (or) Mesozoic time. Most of the unit crops south of the Tintina fault, but an outcrop of marble tentatively assigned to this unit is exposed north of the Tintina fault (C. I. N., R. 30 E.).
 - Pn** BIOTITE SCHIST, QUARTZITE, AND MARBLE - Also includes muscovite schist, quartz-epidote schist, quartz-granulite schist, quartz-amphibolite schist, and some greenschist with interlayered gneiss. Locally includes quartz-biotite gneiss, retrograded gneiss, amphibolite, and hornblende gneiss and schist. Biotite abundant and garnet locally abundant. Probably mostly epidote-amphibolite facies but may include rocks of greenschist and amphibolite facies. Poorly preserved crinoid columns found in marble at one locality. Probably mostly Paleozoic age with metamorphism in Paleozoic and (or) Mesozoic time.
 - Pn** BIOTITE GNEISS AND AMPHIBOLITE - Also includes quartz-biotite gneiss, quartzite, marble, and feldspathic gneiss. Rocks locally retrograded by thermal metamorphism and in places contain calcite and some inferred contacts, approximately by color, and inferred.
- CENOZOIC AND MESOZOIC**
 - Pc** SANDSTONE AND CONGLOMERATE - Sandstone and wacke composed of chert and quartz grains cemented by calcite. Interbedded conglomerate has varicolored chert pebbles and cobbles. Coarse chert common. Contains prolific brachiopods, plant fragments, bryozoans, corals, and gastropods. Interbedded shale nonfossiliferous. Thickness about 300 ft (90 m). May be discontinuously on Calvo Bluff Formation.
 - Pc** CALICO BLUFF FORMATION (Upper Mississippian and Lower Pennsylvanian) - Limestone and shale, dark-brownish-gray, rhythmically interbedded. Limestone is bioclastic. Formation contains rich invertebrate fauna and a few gymnosperm pollen grains and spores. Thickness about 1,400 ft (426 m).
 - Pc** FORD LAKE SHALE (Upper Devonian to Upper Mississippian) - Shale and chert, grayish-black, laminated. Shale is siliceous. Minor dark-gray siltstone, quartzite, and limestone. Contains plant stems and a few brachiopods. Thickness about 3,000 ft (915 m).
 - Pc** NATION RIVER FORMATION (Upper Devonian) - Mudstone, argillite, and conglomerate. Rhythmically interbedded. Graded beds common. Mudstone and argillite contain plant fragments and spores of probable Late Devonian age. Olive-gray sandstone is chert-quartzite and wacke, commonly with carbonate cement. Graptolite and conodonts composed mostly of varicolored chert granules and pebbles. Thickness about 3,000 ft (915 m).
 - Pc** MCCANN HILL CHERT (Lower, Middle, and Upper Devonian) - Chert, siliceous shale, and minor chert graptolite, thin-bedded and laminated, dark to light-gray. Contains plant fragments, poorly preserved spores, and rare conodonts, gastropods, and cephalopods. Basal part of formation contains beds of dark-gray bioclastic limestone with remarkably varied fauna including trilobites, corals, brachiopods, fish, and corals of Middle Devonian (Eldredge) age. Thickness 200 to 800 ft (60 to 245 m). Lies discontinuously on Road River Formation.
 - Pc** ROAD RIVER FORMATION (Lower Ordovician to Lower Devonian) - Dark-gray argillite shale with local amounts of grayish-black laminated chert and very minor dark-gray limestone. Greenish-gray dolomite, grayish-black chert, and chert conglomerate. Chert, chert argillite, and chert conglomerate occur mainly in basal part of formation. Graptolites indicate that Ordovician and Silurian ages are represented and that the youngest rocks are Early Devonian. Lies discontinuously on Hillard Limestone. Thickness ranges from 400 to 900 ft (122 to 275 m).
 - Pc** HILLARD LIMESTONE (Lower Cambrian to Lower Ordovician) - Very fine to medium-grained pale-yellowish-brown limestone; laminated to very thick bedded; shaly to massive parting. Has interbedded edges limestone and calcareous chert and quartz grains. Minor dolomite, grayish-black chert, dark-gray fissile shale, siltstone, and at base, limestone-boulder conglomerate. Medium-grained sandy (chert and quartz) limestone commonly contains trilobites and brachiopods. Age, Early, Middle, and Late Cambrian and (in one locality) includes earliest Ordovician. Maximum thickness 400 ft (122 m).
 - Pc** ADAMS ARGILLITE (Lower Cambrian) - Light-olive-gray argillite, siltstone, and conglominate quartzite with (or without) horvath. Oolitic and sandy limestone near base contains *Archaeocyathus* of Early Cambrian age. Thickness about 900 ft (275 m).
 - Pc** FUNNEL CREEK LIMESTONE (Lower Cambrian) - Light-gray, fine- to medium-grained limestone, dolomite, and argillite. Exceedingly siliceous and commonly oolitic. Forms massive cliffs. Nonfossiliferous. Maximum thickness about 1,000 ft (305 m).
 - Pc** TINDOR GROUP (Precambrian to Devonian) - Includes:
 - Yd** Limestone - Laminated dark-gray limestone with shaly part parting. Contains interbeds of greenish-gray shale, siltstone, and sandstone. Includes minor pale-yellowish-brown sandy limestone, light-gray laminated dolomite, and chert-carbonate graptolite. Thickness ranges from 800 to 1,500 ft (244 to 457 m).
 - Ys** Dolomitic sandstone and shale - Sandstone (dolomitic), light-gray, thin- to medium-bedded, and olive-gray shale. Dolomitic contains subordinate chert and quartz grains and commonly oolitic. Forms massive cliffs. Nonfossiliferous. Maximum thickness about 1,000 ft (305 m).
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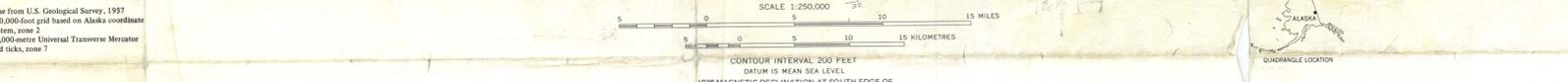


CONTACTS - Includes contacts that are well located, approximately by color, and inferred. Contracted contacts and some inferred contacts, approximately by color, and inferred.

FAULTS - Dotted where concealed. Includes known faults, probable faults, and selected lineaments observed on aerial photographs. Many suspected faults not shown.

Geology adapted from published maps by:

- Brab, E. E., and Chouin, Michael, Jr., 1965, Preliminary geologic map of the Eagle D-1 quadrangle, central Alaska: U.S. Geol. Survey open-file report.
- Clark, S. H., and Foster, H. L., 1969, Preliminary geologic map of the Eagle D-2, D-3, D-4, D-5, D-6, D-7, D-8, D-9, D-10, D-11, D-12, D-13, D-14, D-15, D-16, D-17, D-18, D-19, D-20, D-21, D-22, D-23, D-24, D-25, D-26, D-27, D-28, D-29, D-30, D-31, D-32, D-33, D-34, D-35, D-36, D-37, D-38, D-39, D-40, D-41, D-42, D-43, D-44, D-45, D-46, D-47, D-48, D-49, D-50, D-51, D-52, D-53, D-54, D-55, D-56, D-57, D-58, D-59, D-60, D-61, D-62, D-63, D-64, D-65, D-66, D-67, D-68, D-69, D-70, D-71, D-72, D-73, D-74, D-75, D-76, D-77, D-78, D-79, D-80, D-81, D-82, D-83, D-84, D-85, D-86, D-87, D-88, D-89, D-90, D-91, D-92, D-93, D-94, D-95, D-96, D-97, D-98, D-99, D-100, D-101, D-102, D-103, D-104, D-105, D-106, D-107, D-108, D-109, D-110, D-111, D-112, D-113, D-114, D-115, D-116, D-117, D-118, D-119, D-120, D-121, D-122, D-123, D-124, D-125, D-126, D-127, D-128, D-129, D-130, D-131, D-132, D-133, D-134, D-135, D-136, D-137, D-138, D-139, D-140, D-141, D-142, D-143, D-144, D-145, D-146, D-147, D-148, D-149, D-150, D-151, D-152, 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GEOLOGIC MAP OF THE EAGLE QUADRANGLE, ALASKA
Compiled by
Helen L. Foster
1976

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