

EXPLANATION

UNCONSOLIDATED DEPOSITS

Qa
Valley alluvium
Silt, organic silt, sand, and gravel on valley bottoms and low terraces. Frozen in places.

Qac
Colluvium and alluvium
Mixtures of rubble, talus, loess, colluvium, and alluvium.

Qt
High-level terrace deposits
Mostly gravel and sand with local silty beds. Gravel mostly fairly well sorted, but poorly stratified.

EXTRUSIVE IGNEOUS ROCKS

Tb
Basalt
Dark-gray and greenish-black fine- to coarse-grained olivine basalt. Vesicular and amygdaloidal in places.

SEDIMENTARY ROCKS

Tbc
Detrital rocks of Baby Creek
Coarse conglomerate, poorly stratified, with minor amount of interbedded sandstone.

Ts
Detrital rocks of the Chicken area
Sandstone, silty sandstone, ferruginous sandstone, silty shale, buffaceous shale, carbonaceous shale, lignitic coal, and conglomerate. Contain pollen, poorly preserved leaves, and other plant fragments in places.

Mg
Granitic rocks (small intrusions)
Primarily monzonite and granodiorite, but include some granite, quartz diorite, and diorite.

Jrg
Granodiorite of the Taylor Mountain batholith
Medium- to coarse-grained granodiorite of Taylor Mountain batholith. Locally includes quartz monzonite and quartz diorite and some diorite. Foliated area is complex marginal zone where granitic rocks have incorporated much country rock; dikes are abundant; includes small area of hornfelsed country rock which is cut by many dikes and locally brecciated.

Mp
Ultramafic rocks
Gray, greenish-gray, and pinkish-gray serpentinized rock. Locally somewhat fibrous.

Metamorphic Rocks

Pm
Metamorphic rocks of the Chicken area
Masses to slightly foliated greenstone, gray, white, and pink marble, chert, quartzite, dolomite, phyllite, and graywacke.

PpCs
Quartz-graphite schist unit
Dark-gray quartz-graphite schist, gray quartzite, light-tan and gray quartz-muscovite and quartz-sericite schists, dark-gray phyllite, and cataclastic gneiss.

PpCs
Gneiss and schist unit
Quartz-biotite gneiss, quartz-mica schist, amphibolite, hornblende gneiss, quartzite, and marble. Some rocks highly garnetiferous.

Contact, approximately located

Fault, queried where doubtful

Fault or lineament from aerial photographs

Inclined Strike and dip of beds

Inclined Direction and plunge of axis of tight minor fold

Inclined Strike and dip of foliation

Terrace scarp

Outcrop of garnetiferous rock

Outcrop of marble

sg Fault gouge

p Outcrop or rubble of quartzite

P Pegmatite dikes or sills

a Aplite dikes

s Abundant specks of pyrite and (or) other sulfides

g Granitic dikes or sills

m Mafic dikes, mostly basaltic

um Ultramafic dikes or sills

B Breccia

Ch Chert

M Measured from Tetlin Junction to Eagle and from Canadian border to Eagle Junction

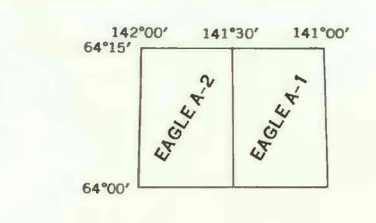
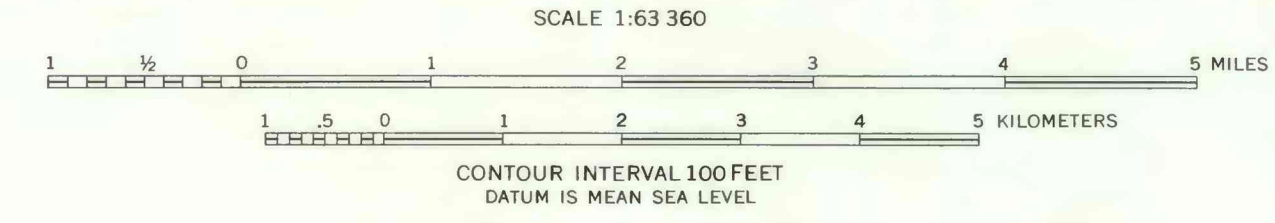
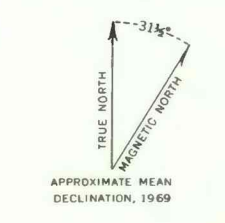
GO MIIepost

⊙ Location of specimen used in point counts

GOAR1 Approximate location of radiometric age date sample

Geology by Helen L. Foster, 1965

Base by U.S. Geological Survey, 1963



RECONNAISSANCE GEOLOGIC MAP OF THE EAGLE A-1 AND A-2 QUADRANGLES, ALASKA