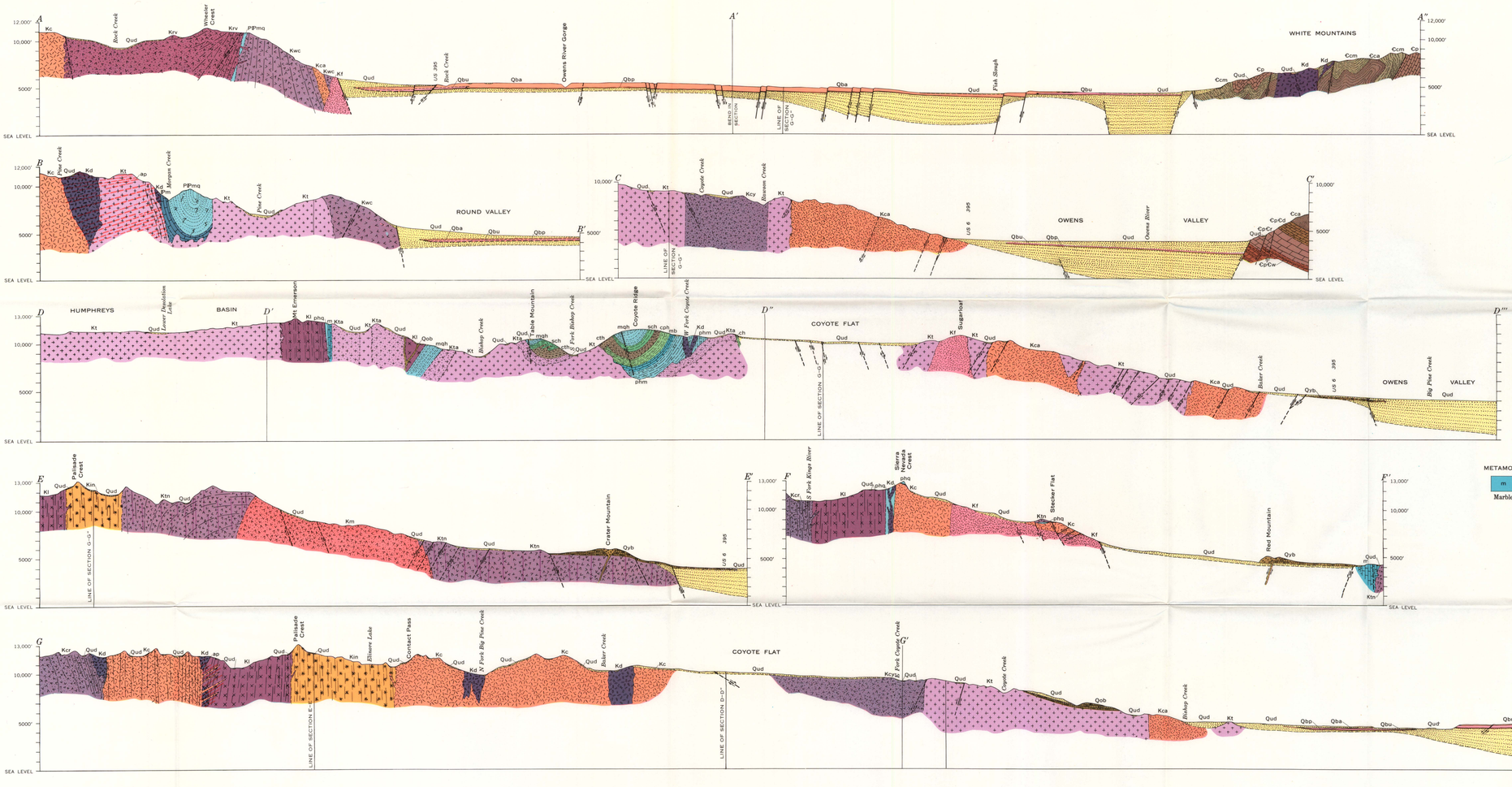
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

QUATERNARY

Pleistocene and Recent

Qud — Undifferentiated alluvial deposits

VOLCANIC DEPOSITS

Pleistocene

Qyb, Qbu, Qbp — Basalt flows and cinder cones
Cinders shown by stippled pattern

Qba, Qbu, Qbp — Bishop tuff
Qba, *hard agglutinated tuff*
Qbu, *soft tuff with rounded pumice fragments*
Qbp, *basal layer of white angular pumice*

Qob — Basalt dikes, necks, and dissected flows

UNCONFORMITY

GRANITIC ROCKS

CRETACEOUS

Kcr — Granodiorite of Cartridge Pass

sp — Felsic dikes and masses

Mafic dikes

Km — Granodiorite of McMurry Meadows

Ktn — Tinemaha granodiorite

Kin — Inconsolable granodiorite

Kf — Finer-grained quartz monzonites

Kc, Kca — Rocks similar to the Cathedral Peak granite
Kc, *quartz monzonite*
Kca, *alaskite*

Kl — Lamarck granodiorite

Kd — Diorite, quartz diorite, and hornblende gabbro

Kcy — Granodiorite of Coyote Flat

Kt, Kta — Tungsten Hills quartz monzonite
Kta, *albitized rock*

Krv — Round Valley Peak granodiorite

Kwc — Wheeler Crest quartz monzonite

METAMORPHIC ROCKS

METAMORPHIC ROCKS IN SMALLER MASSES

PALEOZOIC AND MESOZOIC

m — Marble

ch — Calc-hornfels

phq — Pelitic hornfels, micaceous quartzite, and schist

PINE CREEK PENDANT AND ASSOCIATED SEPTA AND INCLUSIONS

PENNSYLVANIAN(?) AND PERMIAN(?)

PIPmq — Micaceous quartzite

IPm — Marble

MISSING INTERVAL

CARBONIFEROUS(?)

BISHOP CREEK PENDANT

LOWER PALEOZOIC(?)

mqh — Micaceous quartzite and pelitic hornfels

sch — Siliceous calc-hornfels

cth — Metachert and andalusite-bearing pelitic hornfels

cph — Banded calc-hornfels and pelitic hornfels

mb — Marble

phm — Pelitic hornfels with interbeds of marble

MISSING INTERVAL

SEDIMENTARY ROCKS OF THE WHITE MOUNTAINS

CAMBRIAN

Lower Cambrian

Cp — Poleta formation

Ccm, Cca — Campito formation
Ccm, *Montenegro member*
Cca, *Andrews Mountain member*

PRECAMBRIAN OR CAMBRIAN

Upper Precambrian or Lower Cambrian

CpCd — Deep Spring formation

CpCr — Reed dolomite

CpCw — Wyman formation

Contact
Dashed where approximately located

Fault
Dashed where approximately located

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Geology by Paul C. Bateman

GEOLOGIC SECTIONS IN THE MOUNT TOM, BISHOP, BIG PINE, AND PART OF THE MOUNT GODDARD 15-MINUTE QUADRANGLES, CALIFORNIA

SCALE 1:62 500

1 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS