Aeromagnetic contours (dark blue lines) from North American Magnetic Map (2002) grid reprojected to Transverse Mercator Projection, base latitude of 0°, central meridian of -114°W. 1 km grid. Note mismatches as much as 2 km in registration between the geologic map base and the magnetic data. Red circles are locations of maximum horizontal gradient, with larger circles denoting maximum horizontal gradients larger than the mean and smaller circles denoting maximum horizontal gradients smaller than the mean. Contour intervals 50 and 200 nT.

Aeromagnetic contours and maximum horizontal gradient data superposed on reconnaissance geologic maps of Baja California (Gastil et al., 1975). Note: Mismatches between the tick marks from the aeromagnetic overlay and the geologic base may be as great as 2 km, likely because of the age of the base map used in Gastil et al. (1975).

RECONOCIMIENTO GEOLOGICO del Estado de BAJA CALIFORNIA

PREPARADO POR LOS ESTUDIANTES Y PERSONAL DE LA UNIVERSIDAD AUTONOMA DE BAJA CALIFORNIA Y SAN DIEGO STATE UNIVERSITY

COMPILADO POR R. GORDON GASTIL, RICHARD P. PHILLIPS, Y EDWIN C. ALLISON

1971

ESCALA 1:250,000

0 4 8 KILOMETROS

REFERENCIAS Y AGRADECIMIENTOS EN GEOLOGICAL SOCIETY OF AMERICA MEMOIR 140

LEYENDA

UNIDADES DE ROCA

POST-BATOLITICAS
ROCAS SEDIMENTARIAS

CUATERNARIO
al, aluvión; Qd, médanos

Qm, marina; Ql, fluvial
Ql, lacustre

PLIOCENO
Tpm, marina; Tpf, fluvial

MIOCENO
Tmm, marina; Tmf, fluvial

TERCIARIO INFERIOR
Te, Eoceno; Tpa, Paleoceno
m, marina; f, fluvial
Tc, conglomerado

CRETACIO SUPERIOR
Kr, Grupo Rosario
m, marina; f, fluvial
Krc, Formación Redondo

ROCAS VOLCANICAS POST-BATOLITICAS

Qb, Cuaternario basalto
Tpb, Plioceno basalto y andesito basáltico
Tmb, Mioceno basalto y andesito basáltico

Tp, Plioceno; Tm, Mioceno
v, volcánicos no diferenciado; a, andesito
r, riolita y dacita

ROCAS BATOLITICAS

ad, adamelita y granito
gd, granodiorita

t, tonalita
gr, no diferenciado

gb, gabro
d, diabasa

ROCAS PRE-BATOLITICAS

Ka, Formación Alisitos
s, sedimentario; v, volcánico
m, caliza
Jr ?, Jurásico ?
pbv, metasedimentario
pbc, secuencia Paleozoico ?
pl, pizarra; am, anfibolita
sch, esquisto; gn, gneis
pa, paragneis
ph, no diferenciado
mp, plutónicos y metamórficos mezclados

× KA- 501 Localización de las muestras analizadas

SIMBOLOS

CONTACTOS DE LAS UNIDADES DE ROCA
Con línea interrumpida donde su posición está inseguro

INCLINACIONES
ESTRATIFICACION
medida observado foto interpretado
horizontal vertical

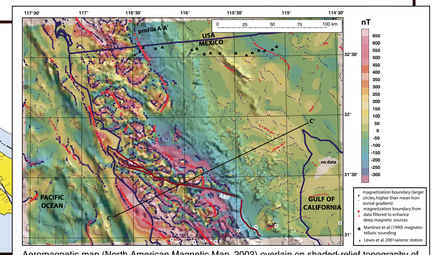
FOLIACION
medida observado
diaclasto

Rumbo en rocas plutónicas
Rumbo en rocas pre-batolíticas

PLIEGUES
Anticlinal Sinclinal

FALLAS
cubierta incierta observado
Normal
Falla de rumbo
Sin especificar
lado de deprimido

Centros de erupción
Manantial
Dique
Pozo
Mina o prospecto
Drenaje
Habitación
Aeropuerto
Sendero
Carretera transitable todo el año
Carretera transitable en épocas de secas



Aeromagnetic map (North American Magnetic Map, 2002) overlain on shaded-relief topography of Becker et al. (2009). Profiles A-A' and C-C' are discussed in text. ABF, Agua Blanca fault.

RECONNAISSANCE GEOLOGIC MAP of the State of BAJA CALIFORNIA

PREPARED BY STUDENTS AND STAFF OF THE UNIVERSIDAD AUTONOMA DE BAJA CALIFORNIA AND SAN DIEGO STATE UNIVERSITY

COMPILED BY R. GORDON GASTIL, RICHARD P. PHILLIPS, AND EDWIN C. ALLISON

1971

SCALE 1:250,000

0 4 8 KILOMETERS

FOR SOURCES AND ACKNOWLEDGEMENTS SEE GEOLOGICAL SOCIETY OF AMERICA MEMOIR 140

LEGEND

ROCK UNITS

POST-BATHOLITHIC SEDIMENTARY ROCKS

QUATERNARY
al, alluvium; Qd, dunes

Qm, marina; Ql, fluvial
Ql, lacustrine

PLIOCENE
Tpm, marine; Tpf, fluvial

MIOCENE
Tmm,marine; Tmf, fluvial

LOWER TERTIARY
Te, Eocene; Tpa, Paleocene
m, marine; f, fluvial
Tc, conglomerate

UPPER CRETACEOUS
Kr, Rosario Group
m, marine; f, fluvial
Krc, Redondo Formation

POST-BATHOLITHIC VOLCANIC ROCKS

Qb, Quaternary basalt
Tpb, Pliocene basalt and basaltic andesite
Tmb, Miocene basalt and basaltic andesite

Tp, Pliocene; Tm, Miocene;
v, undifferentiated volcanic;
a, andesite; r, rhyolite and dacite

BATHOLITHIC ROCKS

ad, adamellite and granite
gd, granodiorite

t, tonalite
gr, undifferentiated

gb, gabbro
d, diabase

PRE-BATHOLITHIC ROCKS

Ka, Alisitos Formation
s, sedimentary; v, volcanic
lm, limestone
Jr ?, Jurassic ?
pbv, undifferentiated volcanic

pbs, mata sedimentary
pbc, Paleozoic
sl, slate; am, amphibolite
sch, schist; gn, gneiss
pbq, quartzite
pb, undifferentiated
mp, mixed metamorphic and plutonic

× KA-501 Location of analyzed or dated samples

SYMBOLS

CONTACTS OF ROCK UNITS
Dashed where approximate

INCLINATIONS
BEDDING
measured observed photo interpretation
horizontal vertical

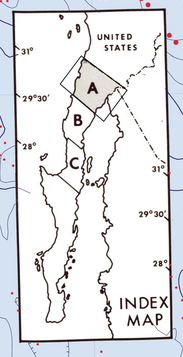
FOLIATION
measured observed
joint

Trend in plutonic rocks
Trend in pre-batholithic rocks

FOLDS
Anticline Syncline

FAULTS
covered uncertain observed
Dip-slip
Strike-slip
Undifferentiated

Eruptive center
Dike
Mine or prospect
Spring
Well
Drainage
Habitation
Airport
Trail
Improved road
Unimproved road



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To accompany Chapter 1, "Geophysical framework of the Peninsular Ranges batholith—Implications for tectonic evolution and neotectonics," by V.E. Langenheim et al.

Geologic base from Plate 1-A of Gastil et al. (1975)