U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

MT. MADONNA QUADRANGLE
CALIFORNIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 MORGAN HILL 15' QUADRANGLE

73-59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
REPRESENTED BY THE
DIRECTOR OF PUBLIC WORKS

(SANTA TERESA HILLS) 1658 II NE

1658 II NE (MT. SIZER)

(LOMA PRIETA) 1658 III SE

(GILROY) 1658 II SE

(WATSONVILLE WEST) 1657 IV NE

(WATSONVILLE EAST) 1657 I NW

(CHITTENDEN) 1657 NE

Surficial deposits

Qr, man-made rock fill
Qg, gravel and sand of stream channels
Qa, alluvium-gravel, sand and clay
Qls, landslide debris

UNCONFORMITY

Qoa — Older alluvium

UNCONFORMITY

Tp — Purisima Formation (marine sandstone, SW of San Andreas Fault)

Tus — Unnamed sandstone (marine)

Tm | Tmc — Monterey Shale (marine)
Tm, semi-siliceous shale
Tmc, clayey to semi-siliceous shale

Tms — Temblor ? Sandstone (marine)

UNCONFORMITY

Tui | Tuc — Unnamed shale (marine)
Tui, siliceous and clay shale
Tuc, clay shale, minor sandst.

Tss — Unnamed sandstone of Mt. Madonna area (marine arkosic sandstone, minor shale)

TKs — Unnamed shale (marine clay shale, minor thin sandstone)

Kcg — Unnamed conglomerate and sandstone

Ksh — Unnamed dark shale

sp | spc — Serpentine and serpentinized ultramafic rocks
Spc - alteration to silica-carb rock

fs | fc | fl | fg | f | fsr — Franciscan rocks (severely shattered eugeosynlinal marine rocks)
fs, graywacke sandstone, minor claystone
fc, varicolored chert
fl, limestone, locally silicified
fg, greenstone (altered from basaltic rocks)
f, hard monolithic masses
fsr, pervasively sheared shale and sandstone

QUATERNARY	Holocene	Qr, Qg, Qa, Qls
	Pleistocene	Qoa
TERTIARY	Pliocene	Tp
	Miocene	Tus, Tm, Tmc, Tms
	Oligocene or L. Mio.	Tui, Tuc
	Eocene	Tss
CRETACEOUS	Upper Cret.?	TKs
	Upper?	Kcg
	Lower?	Ksh
JURASSIC ? AND CRETACEOUS		sp, spc, fs, fc, fl, fg, f, fsr

Contact
dashed where gradational or approximately located

Fault
dashed where inferred; dotted where concealed;
U-upthrown block
D-downthrown block, relatively;
single arrow indicates observed dip of fault;
double parallel arrows indicate lateral movement

inclined — vertical
overturned
Strike and dip of bedding

anticline — syncline
Axis of fold
end arrow indicates direction of plunge

molluscan — foraminiferal
Fossil localities

Geology by T. W. Dibblee Jr. 1970-71 area between Bodfish Creek and Little Arthur Cr. after R. J. McLaughlin Geologic map of the Sargent fault zone in the vicinity of Mt. Madonna, Santa Clara Co. Calif.: Bay reg. env. and res. planning study: basic data contr. 13, U.S. Geol. Survey open filed map Murphy Canyon area after P. J. Bauer, unpublished map

SPECIAL PRINTING
Contours and woodland symbols omitted

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods and by planetable surveys 1955. Aerial photographs taken 1953

Polyconic projection. 1927 North American datum
10,000 foot grid based on California coordinate system, zone 3
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Revisions shown in purple compiled from aerial photographs taken 1968. This information not field checked

Purple tint indicates extension of urban areas

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 40 FEET
DASHED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN
0°47' 14 MILS
17° 302 MILS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION
CALIF

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

MT. MADONNA, CALIF.
SW/4 MORGAN HILL 15' QUADRANGLE
N3700—W12137.5/7.5

1955
PHOTOREVISED 1968
AMS 1658 II SW—SERIES V895

PRELIMINARY GEOLOGIC MAP OF THE MT. MADONNA QUADRANGLE, SANTA CLARA AND SANTA CRUZ COUNTIES, CALIFORNIA

By Thomas W. Dibblee Jr., 1973

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.