

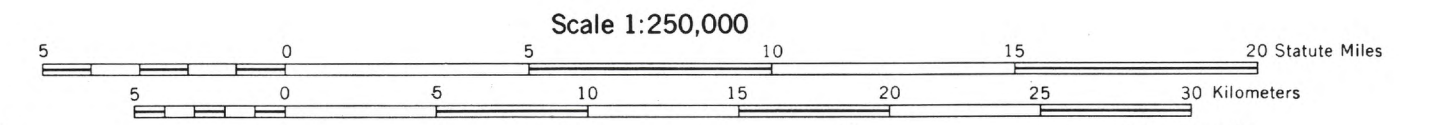
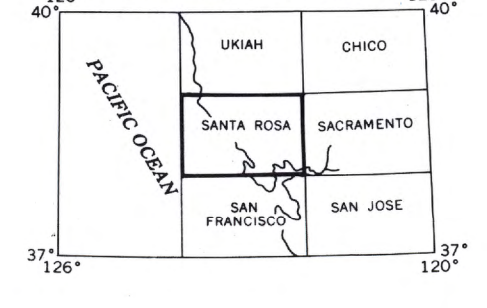
ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate stratigraphic relationships and unit descriptions.

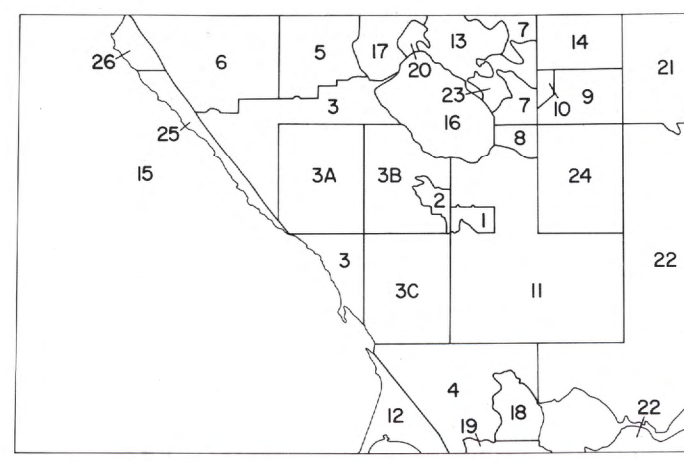
QUATERNARY	Qa Alluvium	Qb Natural levee and channel deposits	Qc Basin deposits (Alluvium)	Qd Landslide deposits	Qe Dune and beach sand	Qf Intertidal deposits (Pebbly-sand)	Qg Older alluvium	Qh Modesto-Riverbank Formations (Archaic alluvium)	Qj Terrace deposits	Qk Millerton Formation (Marine and nonmarine clay, silt, sand and conglomerate)	Ql Red Bluff Formation (Clayey to reddish silty or sandy matrix)	Qm Huichica and Glen Ellen Formations (Fluvial gravel, silt, sand, and clay)	Qn Tehama Formation (Sand, silt, and volcaniclastic rocks)	Qo "Cache" Formation (Pebbly sandstone, conglomerate, siltstone and tuff)	Qp Putah Tuff Member (Tuff)	Qq Ohlson Ranch Formation (Marine sandstone, siltstone, and conglomerate)	Qr Wilson Grove Formation (Marine sandstone, conglomerate, and tuff)	Qs Unnamed continental deposits (Poorly sorted sandstone and conglomerate)	Qt Petaluma Formation (Claystone, siltstone, mudstone, mostly nonmarine)	Qu Orinda (?) Formation (Pebbly sandstone and conglomerate)	Qv Drakes Bay Formation (Marine siltstone and mudstone)	Qw San Pablo Group (Marine sandstone and shale)	Qx Monterey Group (Marine sandstone and shale)	Qy Galloway - Skoner Gulch Formations (Marine sandstone and mudstone)	Qz Laird Sandstone (Marine quartzose feldspathic sandstone)	Qaa Markley Sandstone (Marine)	Qab Nortonville Shale (Marine)	Qac Domingine Sandstone (Marine)	Qad Capay Formation (Marine sandstone)	Qae Unnamed Eocene marine rocks	Qaf German Rancho Formation (Marine sandstone and mudstone)	Qag Martinez Formation (Marine quartzite sandstone)	Qah Point Reyes Formation (Marine conglomerate and sandstone)	Qai Coastal Belt Franciscan (Marine sandstone, shale, and conglomerate)	Qaj Gualala Formation (Marine sandstone, mudstone, and conglomerate)	Qak Upper Cretaceous (Undifferentiated marine rocks)	Qal Forbes Formation (Marine shale and siltstone)	Qam Guinda Formation (Marine sandstone and mudstone)	Qan Funks Formation (Marine shale and sandstone)	Qao Sites Formation (Marine sandstone)	Qap Yolo Formation (Marine shale and sandstone)	Qaq Venado Formation (Marine sandstone and conglomerate)	Qar Lower Cretaceous Great Valley Sequence (Marine mudstone, sandstone, and conglomerate) (Knp - detrital serpentine)	Qas Lower Cretaceous-Upper Jurassic Great Valley Sequence (Marine mudstone, siltstone, sandstone, and conglomerate) (Knp - detrital serpentine)	Qat Franciscan Complex (s-sandstone, shale, conglomerate, ch-chert, g-greenstone, mg-metagraywacke)	Qau Serpentinized ultramafic rocks *	Qav Metamorphic rocks of uncertain age. k - limestone and marble (chert, white and quartzite)	Qaw Volcanic rocks, mainly basalt	Qax Gabbro and diabase	Qay Ultramafic rocks (Peridotite) partly to completely serpentinized														
CENOZOIC																Qb	Qc	Qd	Qe	Qf	Qg	Qh	Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs	Qt	Qu	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac	Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam	Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw	Qax	Qay
TERTIARY																Qb	Qc	Qd	Qe	Qf	Qg	Qh	Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs	Qt	Qu	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac	Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam	Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw	Qax	Qay
MESOZOIC																Qb	Qc	Qd	Qe	Qf	Qg	Qh	Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs	Qt	Qu	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac	Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam	Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw	Qax	Qay
PALEOZOIC																Qb	Qc	Qd	Qe	Qf	Qg	Qh	Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs	Qt	Qu	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac	Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam	Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw	Qax	Qay

Geology compiled 1979-80

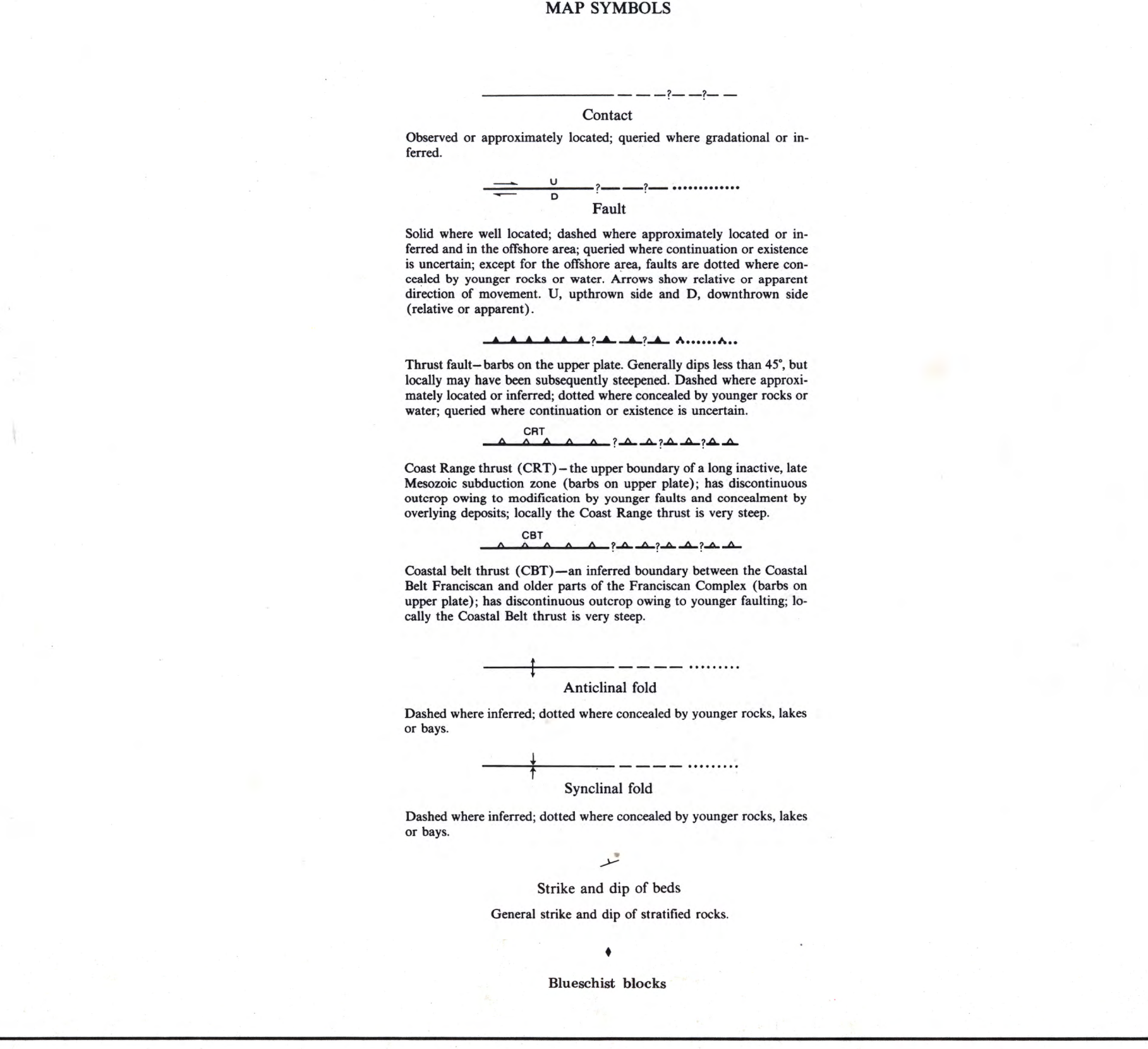
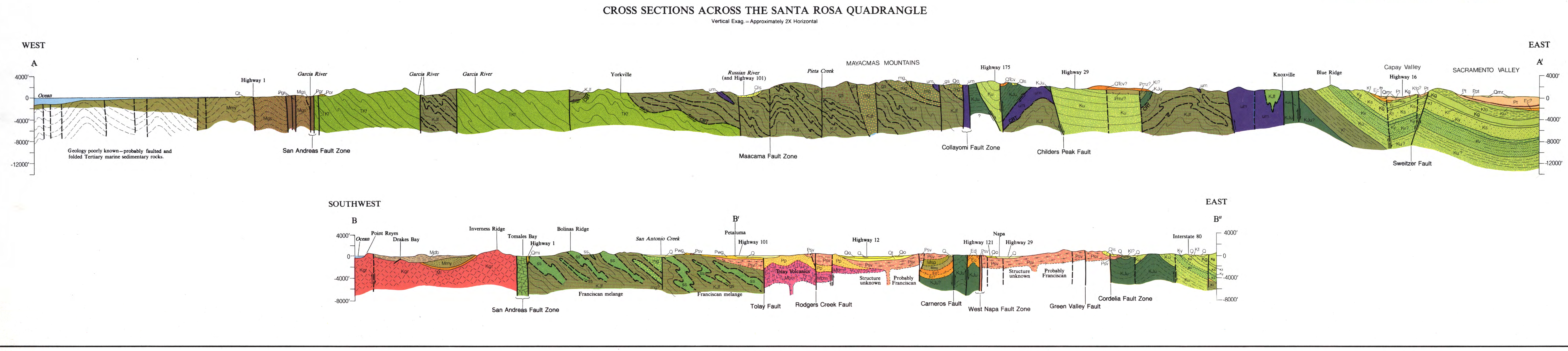
BASE MAP
PRODUCED BY THE U. S. GEOLOGICAL SURVEY AND THE NATIONAL OCEANIC SURVEY
Base map prepared by Defense Mapping Agency from 1:24,000, 1:25,000, and 1:50,000 scale maps dated 1942-1955. Field checked 1958. Revised by the U. S. Geological Survey 1970.
Bathymetry compiled by the National Ocean Survey from tide-coordinated hydrographic surveys. Bathymetric survey data comply with International Hydrographic Organization (IHO) Special Publication 44 accuracy standards and/or standards used at the date of the survey. This information is not intended for navigational purposes.



CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
BATHYMETRIC CONTOUR INTERVAL 10 METERS TO THE 200 METER DEPTH,
50 METERS TO MAXIMUM DEPTH
TRANSVERSE MERCATOR PROJECTION



- ABBREVIATED INDEX TO GEOLOGIC SOURCE DATA
(Complete Index on Sheet 3)
1. Armstrong, C.F., and Wagner, D.L., 1977
 2. Anderson, C.F., and Wagner, D.L., 1978
 3. Blake, M.C., Jr., Smith, J.T., Westworth, C.M., and Wagner, D.L., 1977
 4. Blake, M.C., Jr., 1980
 5. Blake, M.C., Jr., 1980
 6. Blake, M.C., Jr., 1980
 7. Blake, M.C., Jr., 1980
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 24. Blake, M.C., Jr., 1980
 25. Blake, M.C., Jr., 1980



GEOLOGIC MAP OF THE SANTA ROSA QUADRANGLE, CALIFORNIA, 1:250,000

Compilation by
D.L. Wagner and E.J. Bortugno
Published 1982