

LIST OF MAP UNITS

- Artificial fill (Holocene)
Active channel alluvium (Holocene)
Beach deposits (Holocene)
Estuarine deposits (Holocene)
Asphalt deposits (Holocene)
Debris flow deposits (Holocene and/or upper Pleistocene)
Alluvium and colluvium (Holocene and upper Pleistocene)
Colluvium (Holocene and upper Pleistocene)
Landslide deposits (Holocene and Pleistocene)
Trawertine and/or caliche deposits (Holocene and Pleistocene)
Intermediate alluvial deposits (upper Pleistocene)
Marine terrace deposits (upper Pleistocene)
Older alluvial deposits (upper and middle Pleistocene)
Shale-clast sedimentary breccia (middle Pleistocene)
Santa Barbara Formation (middle Pleistocene)
Unnamed sedimentary rocks east of Goleta Pier (Pleistocene and Pliocene)
Conglomeratic unit (middle Pleistocene)
Sandstone unit (middle Pleistocene)
Siltstone unit (lower Pleistocene and/or upper Pliocene)
Sierrita Formation (Pliocene and upper Miocene)
Monterey Formation (Miocene)
Upper siliceous unit (upper Miocene)
Middle shale unit (upper and middle Miocene)
Lower calcareous unit (middle and lower Miocene)
Rincon Shale (lower Miocene)
Siliceous shale interval (lower Miocene)
Vesqueros Formation (upper Oligocene)
Sespe Formation (upper Oligocene and upper Eocene)
Upper sandstone and mudstone unit (upper Oligocene)
Middle conglomerate and sandstone unit (upper Oligocene)
Lower conglomerate and sandstone unit (upper Eocene)
Coldwater Sandstone (upper and/or middle Eocene)

- Contact—Long dashed where approximately located; short dashed where inferred; dotted where concealed; shows direction and angle of dip
Contact—inferred from 1928 air photos
Beveled surface border
Marine terrace shore line angle—Dashed where approximately located
Fault—Long-dashed where approximately located; short dashed where inferred; dotted where concealed; ball and bar on apparent downthrown side; pair of opposing arrows show sense of strike-slip component of movement; quartered where uncertain; ic shows direction and angle of dip; arrow shows trend and plunge of slickenside strike
Fault—inferred from 1928 air photos; dashed where inferred; dotted where concealed; ball and bar on apparent downthrown side
Thrust fault—Long dashed where approximately located; short dashed where inferred; dotted where concealed
Fault-line scarp—inferred
Fold and warp axial traces—Long-dashed where approximately located; short-dashed where inferred; dotted where concealed
Anticline
Upward axis
Syncline
Downward axis
Inclined joint—Showing strike and dip
Horizontal bedding
Inclined bedding—Showing strike and dip
Vertical bedding—Showing strike
Overturned bedding—Showing strike and dip
Inclined bedding—Showing approximate strike and direction of dip
Qas—Asphalt deposits

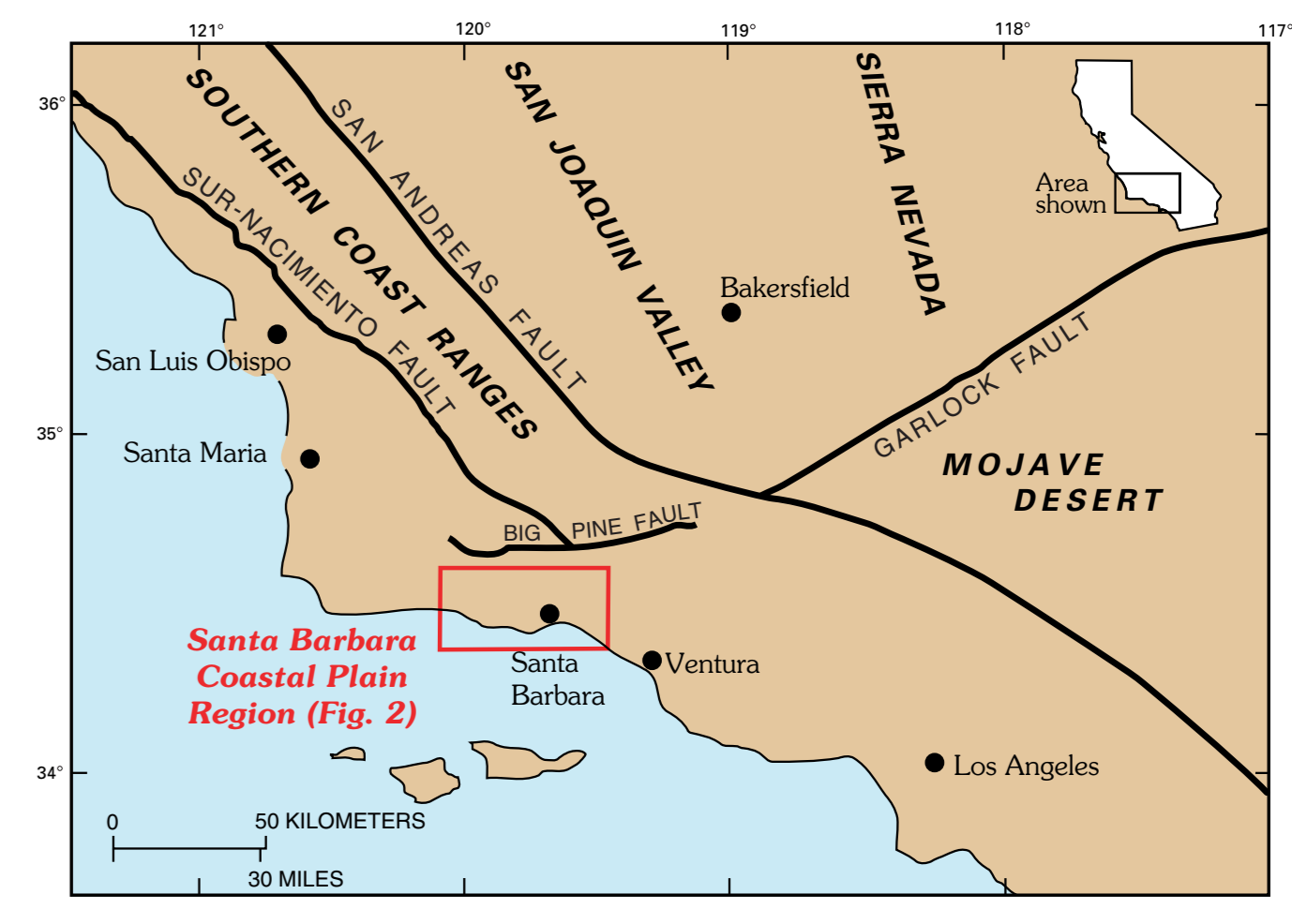


Figure 1. Generalized index map of the southwestern part of California showing the location of the Santa Barbara coastal plain and nearby major tectonic faults.

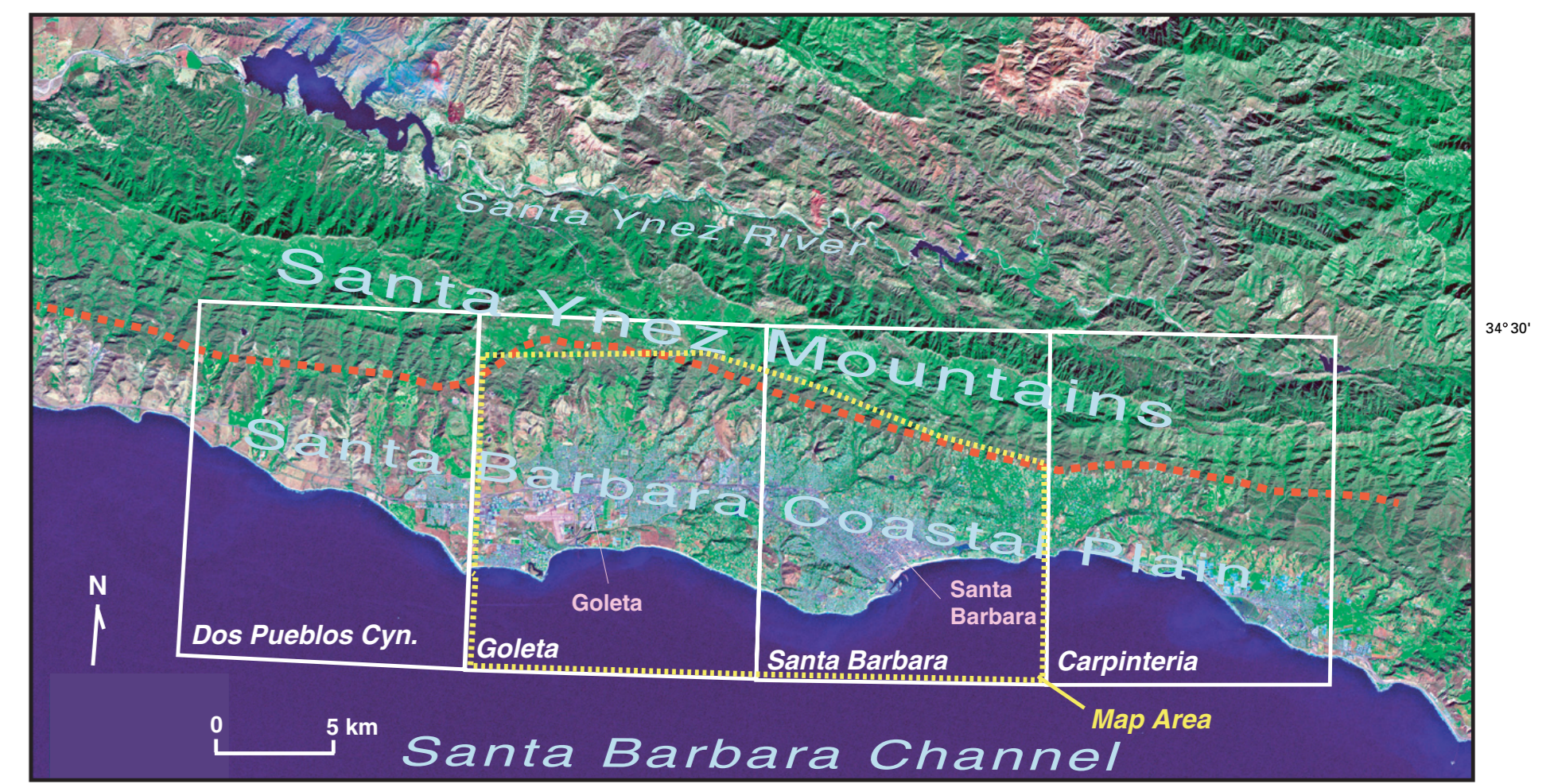
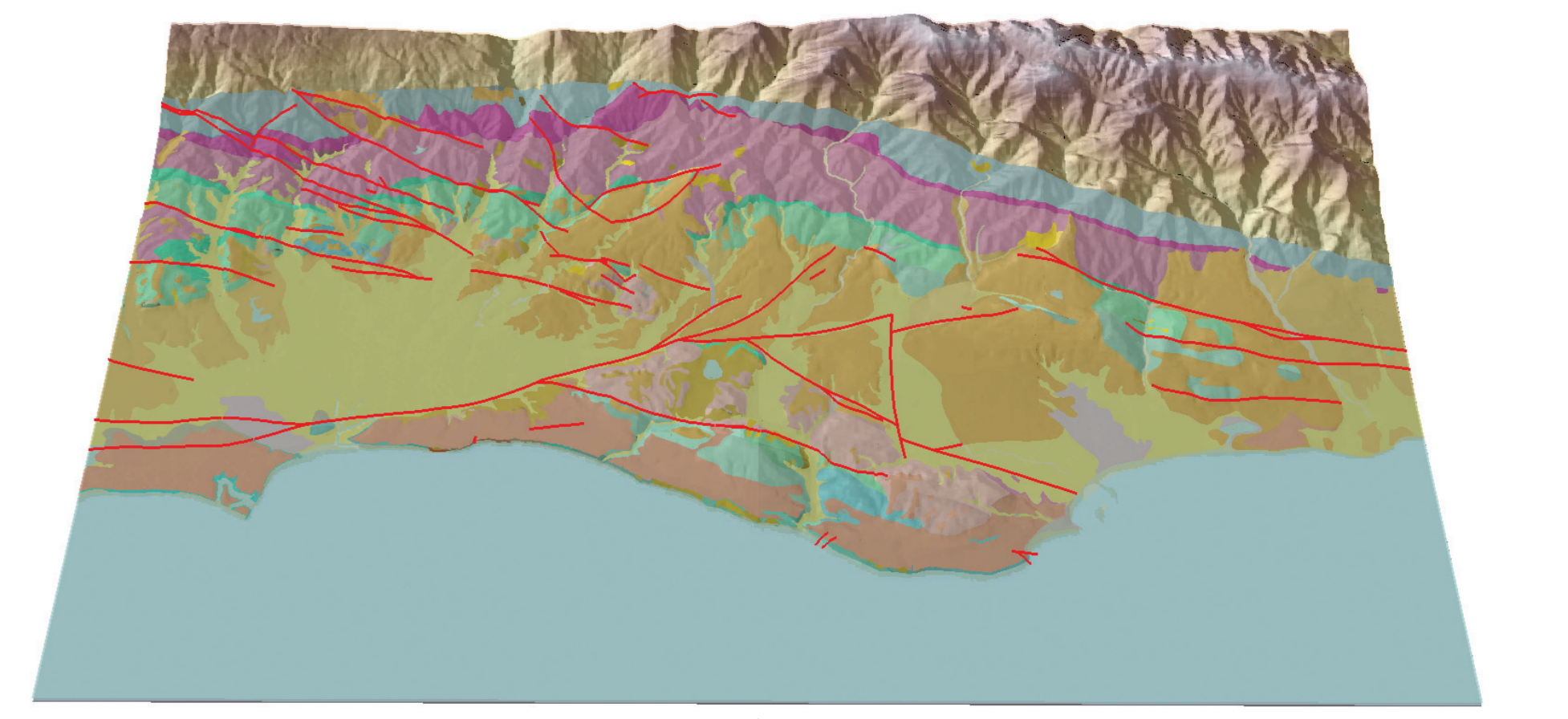


Figure 2. Landscape 7 image of the Santa Barbara coastal plain region showing location of map area and component 7.5 quadrangles. Approximate northern boundary of Santa Barbara fold fault belt is shown by dashed red line.



(a)



(b)

Figure 3. (a) Digital Elevation Model (DEM) (30 m resolution) shaded-relief image of Santa Barbara coastal plain area as viewed from the north and illuminated from the northeast. (b) Mapped geology draped over DEM shown in (a) with faults shown in red; concealed and exposed faults are not distinguished.

PRELIMINARY GEOLOGIC MAP OF THE SANTA BARBARA COASTAL PLAIN AREA,
SANTA BARBARA COUNTY, CALIFORNIA

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