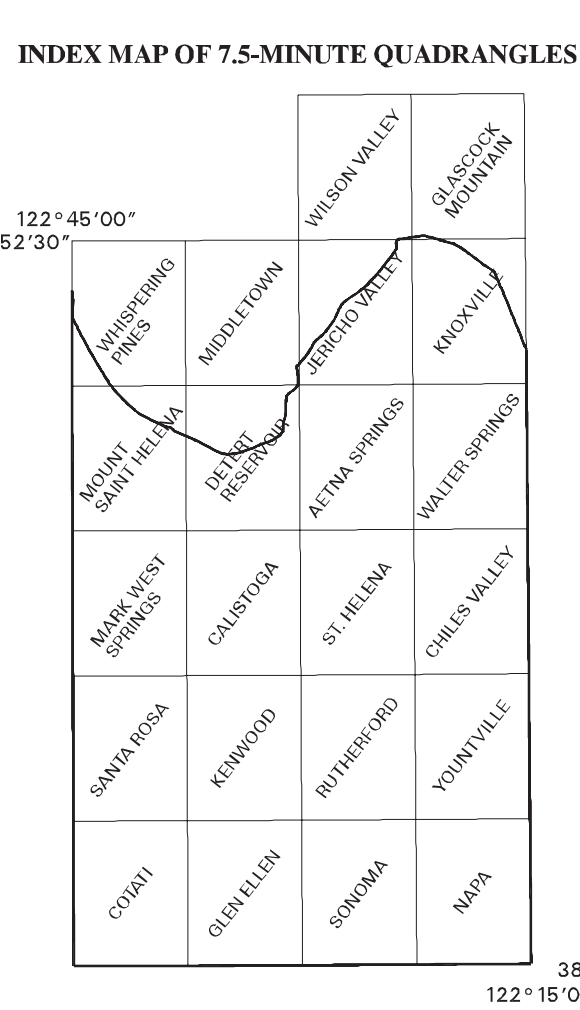
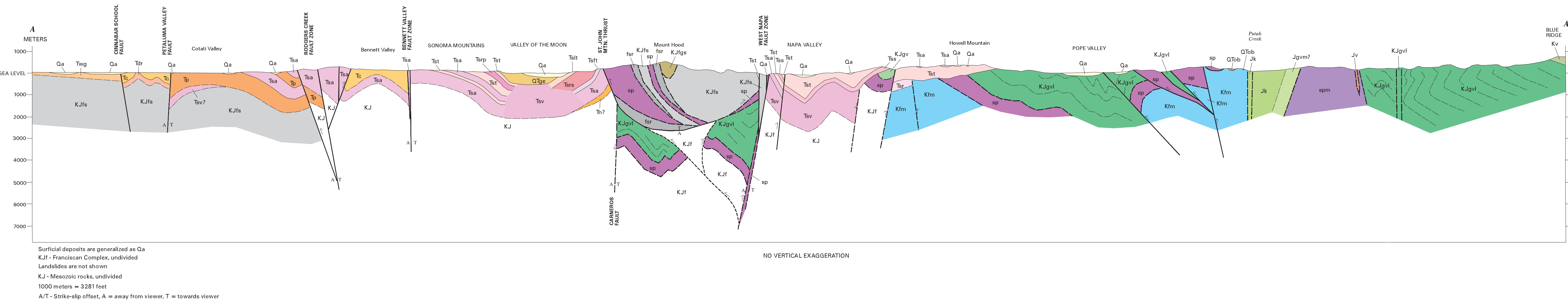
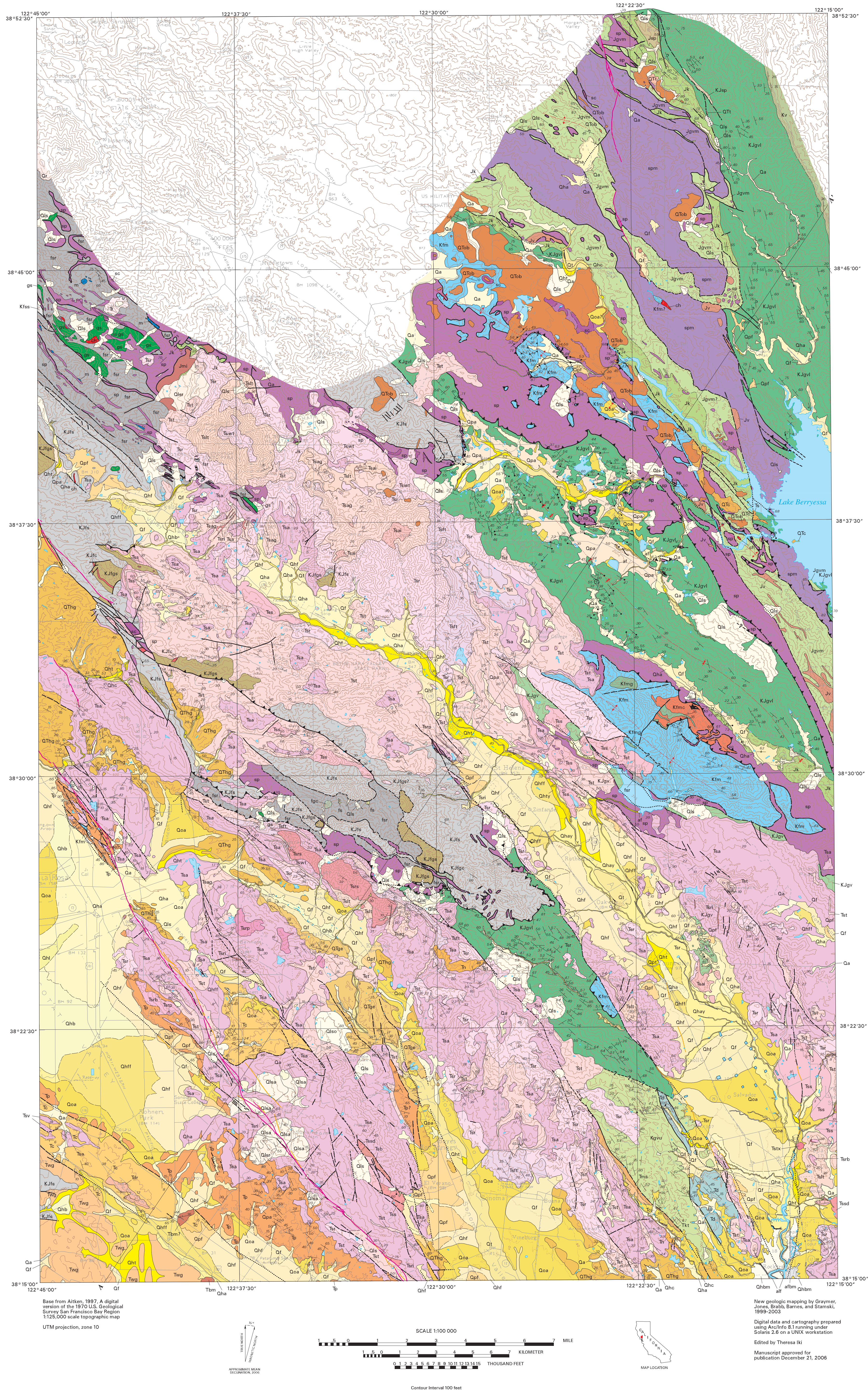
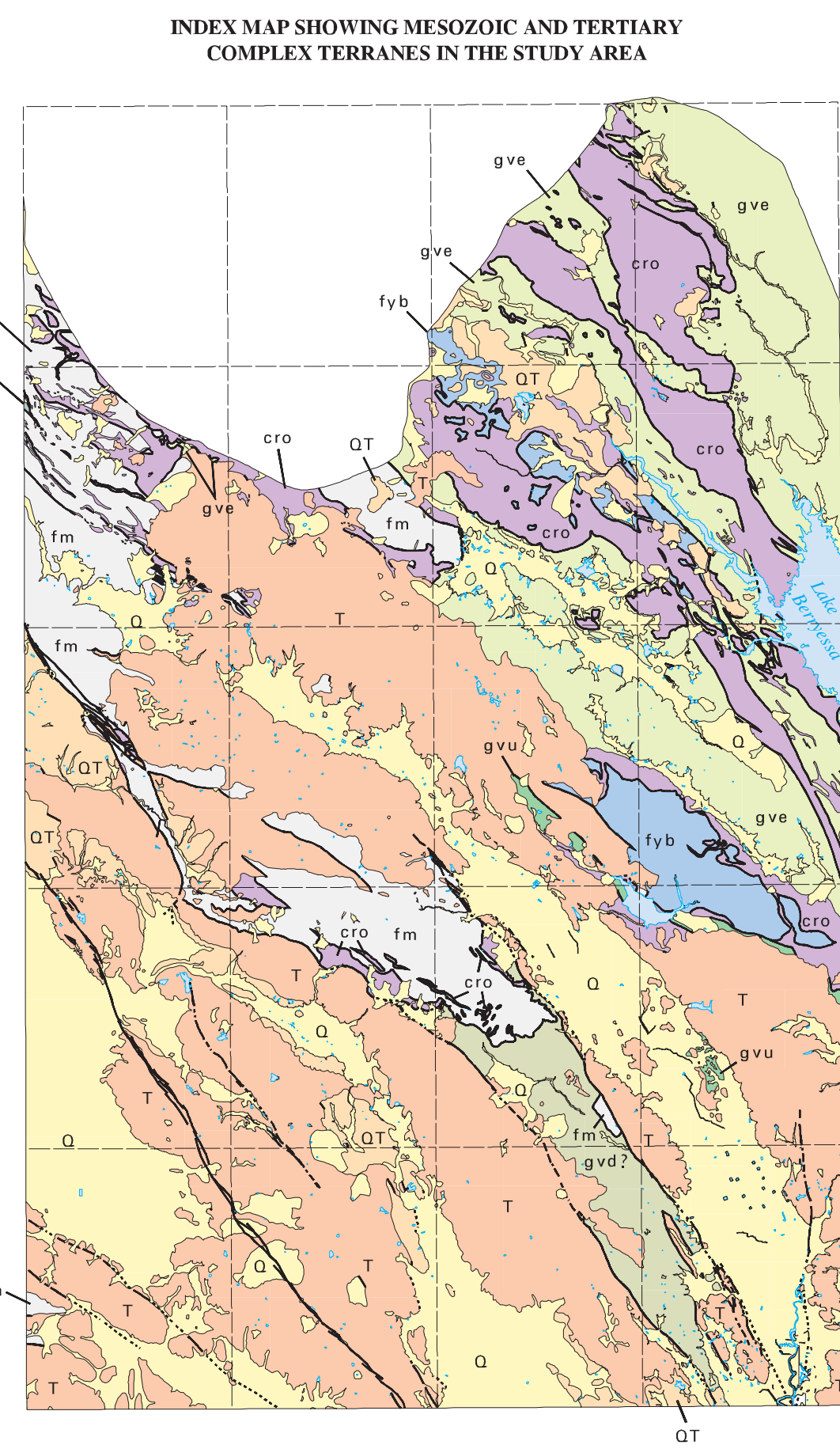
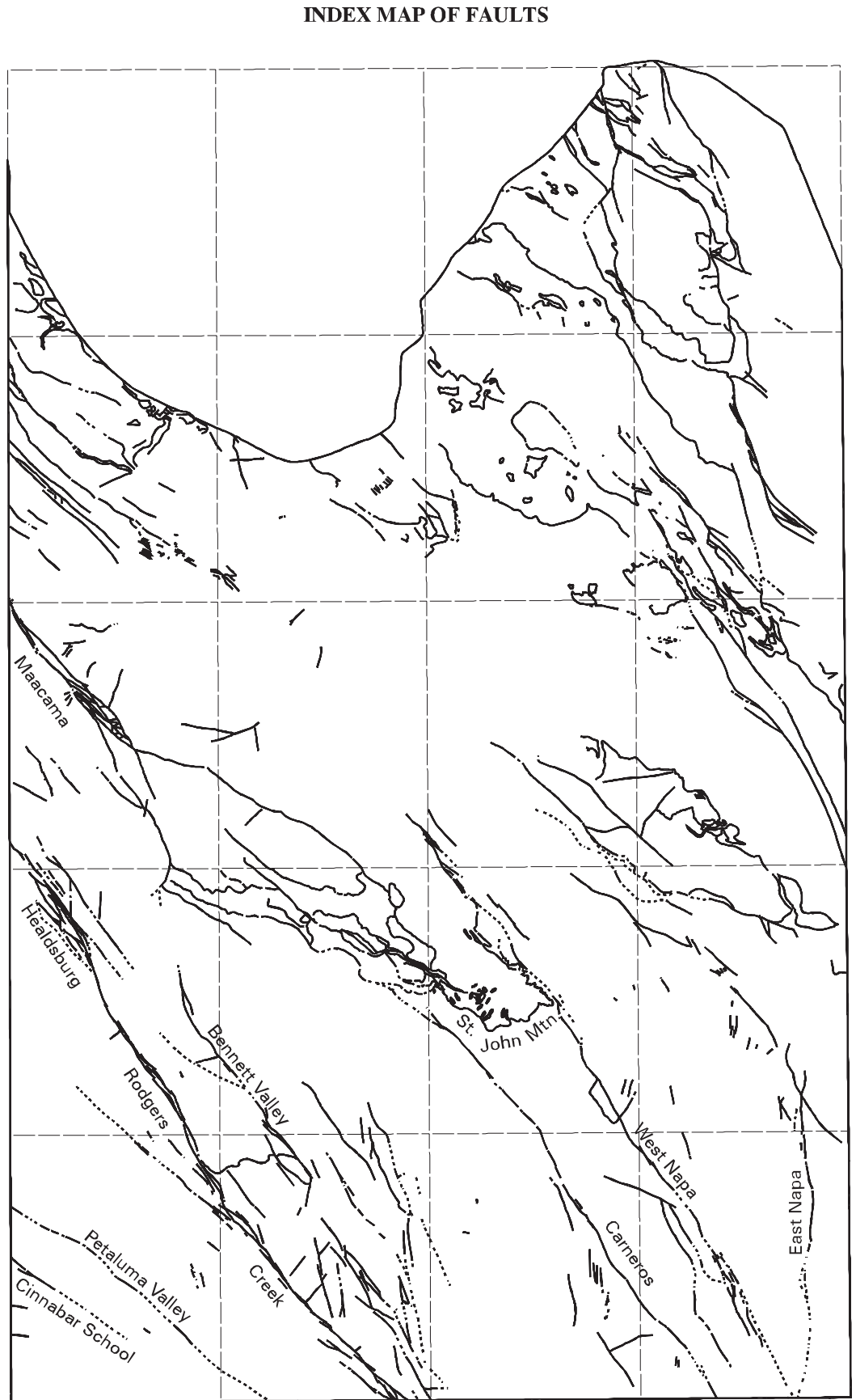
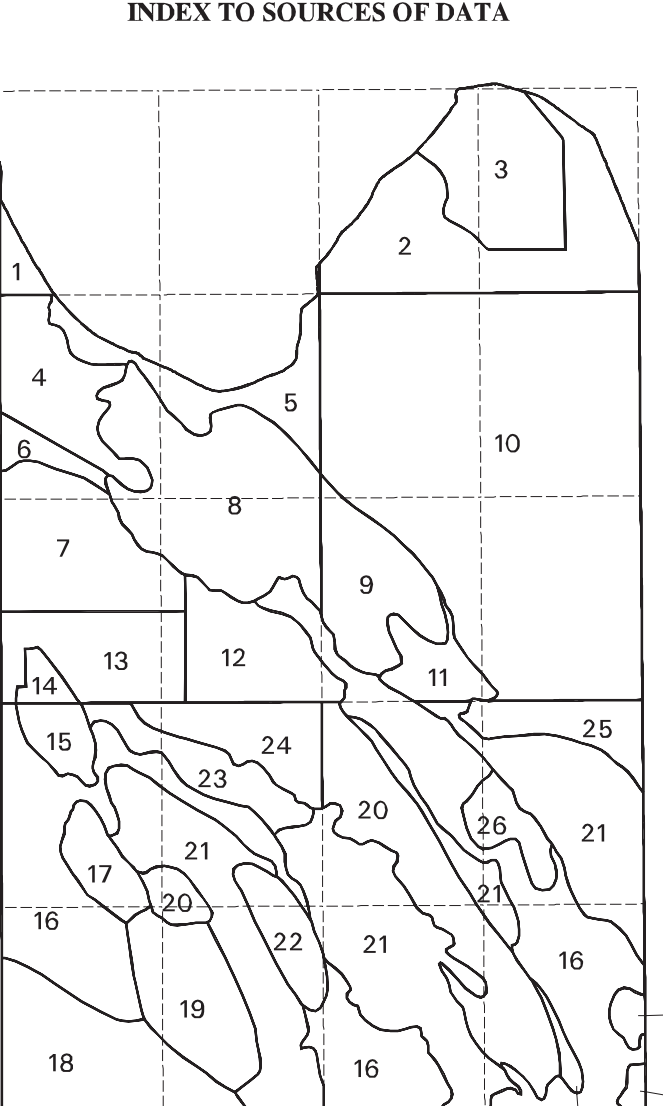




- SOURCES OF DATA**
- See pamphlet (or digital file) for references cited. Quaternary surficial deposits modified from Sowers and others (1986) and Kinsman and others (1986).
1. Brier (1953), Hearn and others (1995).
 2. E.F. Ciancagelli (unpub.), Coney (1948), Fox and others (1973), Phillips (1984), Hearn and others (1995).
 3. Aveni (1945), as modified and misinterpreted by E.F. Ciancagelli (unpub.), Phillips (1984), Hearn and others (1995).
 4. Bailey (1946), as modified by E.F. Ciancagelli (unpub.), Fox and others (1973), McLaughlin (1975).
 5. Yates and Hilbert (1946), as modified by E.F. Ciancagelli (unpub.).
 6. E.F. Ciancagelli (unpub.).
 7. Hurlbut (1948), Fox and others (1973).
 8. Fox and others (1973), Coudfield (1953).
 9. Fox and others (1973), with additions from N.L. Talafout (unpub.).
 10. E.F. Ciancagelli (unpub.), N.L. Talafout (unpub.), Wagner (1975), Fox and others (1973), Shandley (1947), Alge (1948), Clark (1948), Phillips (1984), Hearn and others (1995), A.N. Moseley (unpub.).
 11. N.L. Talafout (unpub.), Fox and others (1973).
 12. Johnson (1948), Fox and others (1973).
 13. Goss (1948), Fox and others (1973).
 14. Huffman (1971), Fox and others (1973).
 15. C.W. Jennings (unpub.), Fox and others (1973).
 16. Sowers and others (1986), Kinsman and others (2000).
 17. Fox and others (1973), C.W. Jennings (unpub.).
 18. Fox and others (1973), Weaver (1949), Carwell (1958), Davies (1986).
 19. Fox and others (1973), Huffman (1971), Weaver (1949).
 20. Weaver (1949).
 21. Fox and others (1973), Weaver (1949), Kunkel and Upson (1980), Carwell (1958).
 22. J.D. Redford (unpub.), Fox and others (1973).
 23. Fox and others (1973), Weaver (1949), Carwell (1958), R.L. Rose (unpub.).
 24. Fox and others (1973), R.L. Rose (unpub.).
 25. A.N. Moseley (unpub.), Fox and others (1973).
 26. Weaver (1949), Fox and others (1973).



- EXPLANATION OF TERRANE MAP**
- Q Quaternary surficial deposits
 - QT Quaternary-Tertiary gravels
 - T Tertiary volcanic and sedimentary rocks
 - GREAT VALLEY COMPLEX
 - gvc Elder Creek terrane
 - gvd Del Norte terrane
 - gvm Great Valley complex, undivided
 - gro Coast Range ophiolite
 - FRANCISCAN COMPLEX
 - fdv Devils Den terrane
 - fyb Yolla Bolly terrane
 - fm Mélange
 - Depositional or intrusive contact
 - Fault—Dashed where approximated, dotted where concealed

Geologic Map and Map Database of Eastern Sonoma and Western Napa Counties, California

By

R.W. Graymer, E.E. Brabb, D.L. Jones, J. Barnes, R.S. Nicholson, and R.E. Stamski

2007

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