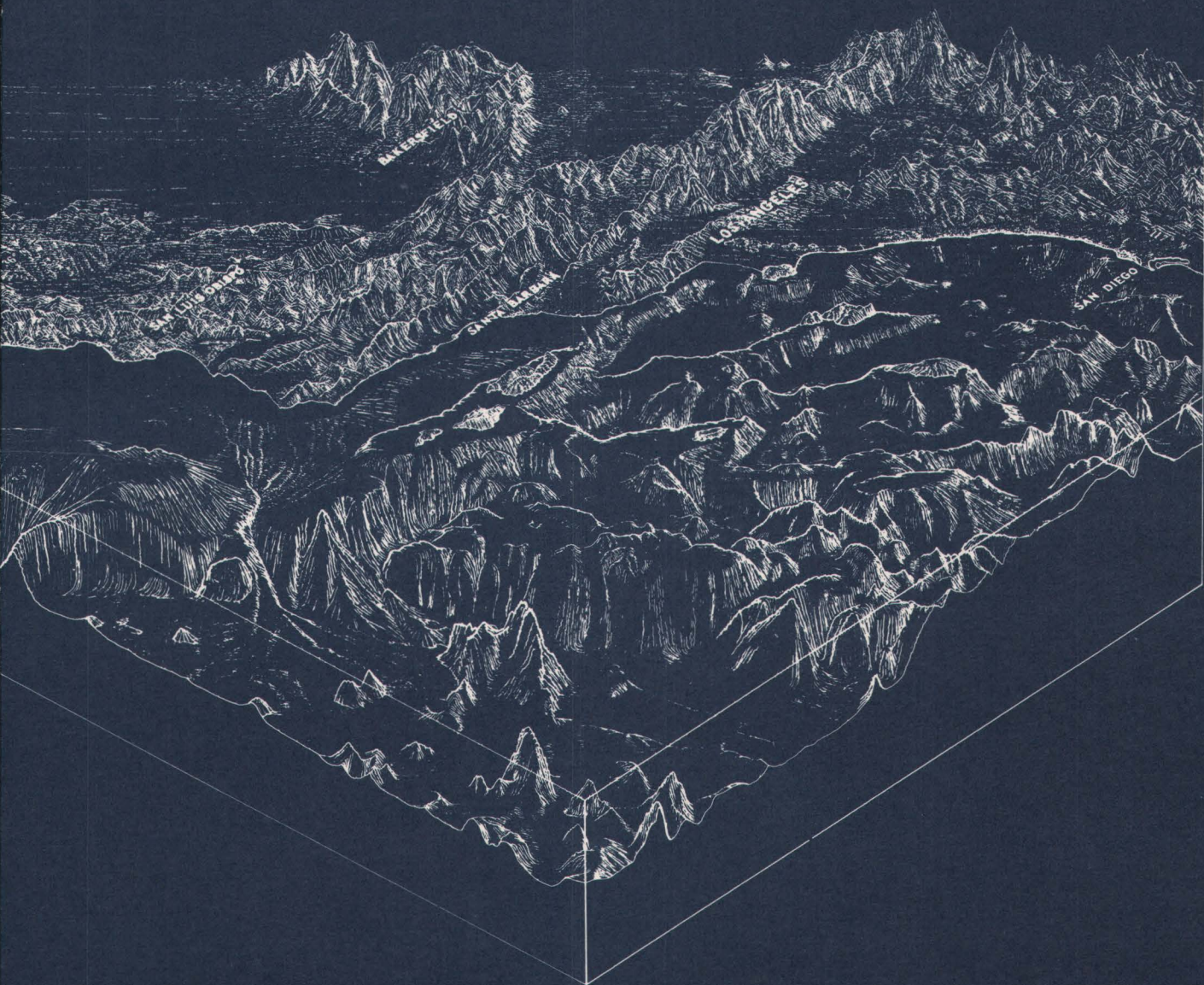


Selected Geologic Literature on the  
California Continental Borderland and  
Adjacent Areas,  
To January 1, 1975





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By Albert E. Roberts

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G E O L O G I C A L   S U R V E Y   C I R C U L A R   7 1 4

**United States Department of the Interior**  
**ROGERS C. B. MORTON, *Secretary***



**Geological Survey**  
**V. E. McKelvey, *Director***

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## INTRODUCTION

Among the prospective areas of the United States for developing substantial new petroleum reserves is the California Continental Borderland. However, the likelihood of finding large supplies of petroleum in this submarine area is difficult to evaluate without detailed information on the bedrock of the sea floor. Although much information of this kind has been gathered by producing or service companies of the petroleum industry, most of it is proprietary. This report lists papers that contain geologic data pertinent to an evaluation of the California Continental Borderland and that are generally available.

The southern California offshore geomorphic province was first named the California Continental Borderland by Shepard and Emery (1941). Later, Moore (1969) extended coverage of the name south to Isla Cedros, Baja California, Mexico. However, the area of primary interest in this report is the part that lies offshore from southern California, as shown in figure 1, and usage of the name refers to this area. It includes about 31,000 square miles or 80,290 sq. km (Emery, 1954) in an area bounded by the California shoreline south of Point Conception, the continental slope (Patton Escarpment), and the 32°32' parallel of latitude (U.S.-Mexico boundary). The California Continental Borderland is a geologically complex area of elongate northwest- and west-trending seafloor ridges and basins that lie west and south of the Peninsular and Transverse Ranges geomorphic and structural provinces. Large nearshore depositional troughs that underlie the Santa Barbara, Santa Monica, and San Pedro basins and the Gulf of Santa Catalina presumably are favorable targets for exploratory drilling, as they contain thick successions of post-Oligocene sedimentary rocks (Vedder and others, 1974).

Oil and gas seeps are relatively common along the mainland coast between Point Conception and the Palos Verdes Hills (Wilkinson, 1972), where in prehistoric times Indians used tar from some of these seeps to waterproof baskets and calk canoes (Heizer, 1943, p. 74). In the late 1890's development wells were drilled and slanted out under the sea from wooden wharves near the beach of Summerland (6 miles east of Santa Barbara) in the northern part of the California Continental Borderland (Yerkes, Wagner, and Yenne, 1969). This marked the beginning of the gradual transition from onshore to offshore petroleum development.



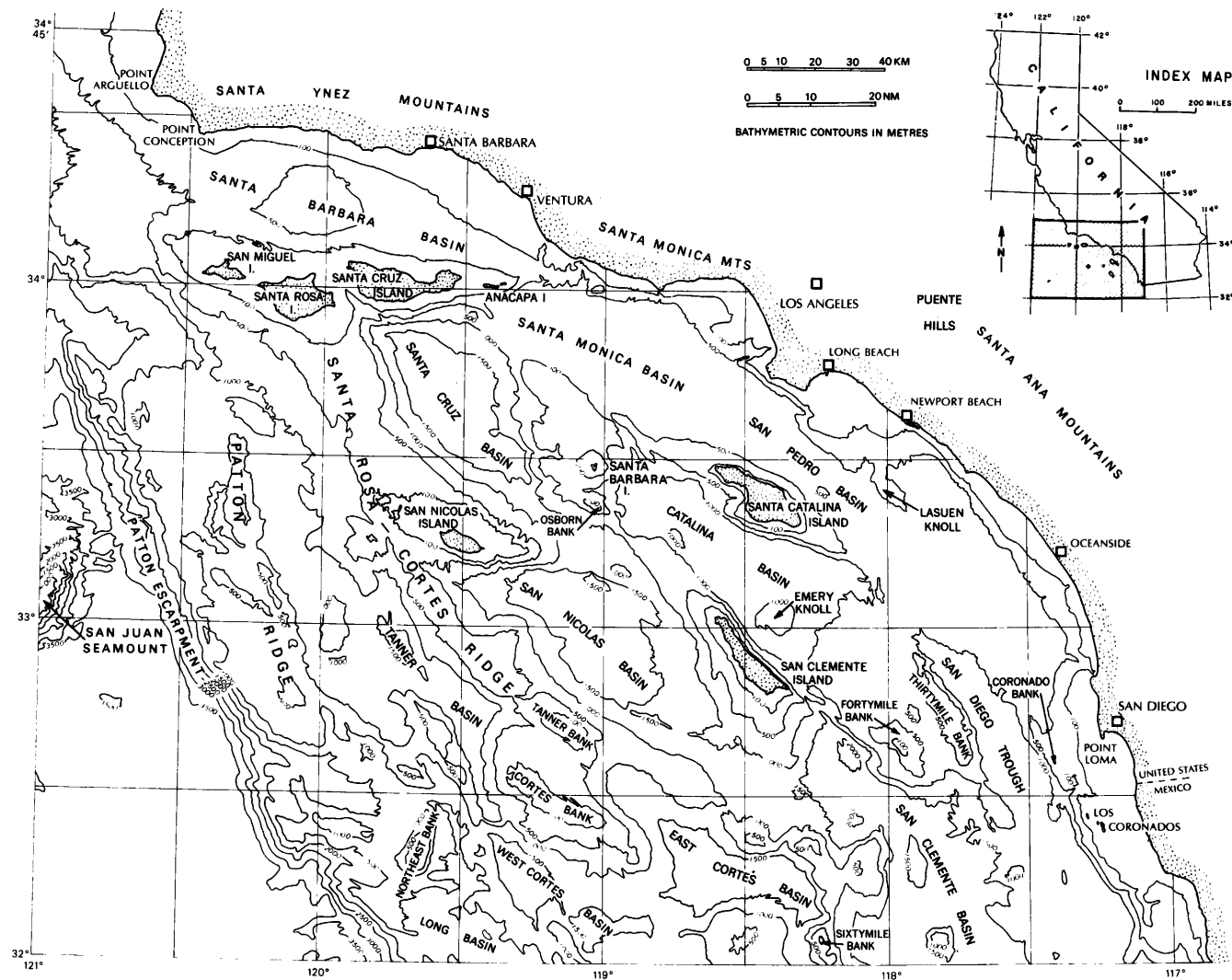


FIGURE 1.—Index map of the California Continental Borderland and vicinity.



Mineral resources other than petroleum are also known on the borderland. Broadly disseminated, low-grade phosphorite and iron-manganese deposits are widely distributed in the borderland area but vary in concentration and quality. Offshore deposits of sand and gravel suitable for construction materials are generally restricted to areas near coastal headlands; near the mouths of rivers with steep gradients; in relict stream channels in shallow waters where the shelves once were subaerially eroded; and on coasts exposed to heavy seas.

The California Continental Borderland is topographically and geologically an extension of the adjoining coast. On-shore features can be observed and studied directly, but in areas covered by the ocean, only such indirect methods as geophysical techniques and shallow coring are available to decipher the geology. The land areas have been studied in considerable detail, but relatively little sea floor geologic mapping has been done. Most geologic studies consist of seaward projections of mainland and island geology and of subsurface data from nearshore deep exploratory wells.

This bibliography, which contains more than 1,100 references, was made in support of an appraisal of the mineral resource potential and an assessment of mineral-related environmental problems of the California Continental Borderland. It includes pertinent geologic literature on the borderland or adjacent areas available prior to January 1, 1975. The bibliography is also intended to focus future geologic and resource studies on areas or topics of greatest immediate need. Further research on this relatively unexplored offshore area must be more intensive than the studies of the past and should include the application of new technology, both for exploration and ultimate development of resources.

On-land references that contributed to a better understanding of the geologic framework of the borderland are included in this bibliography. In general, these reports are in the western parts of the Ventura and Los Angeles basins, Santa Ynez and Santa Monica Mountains, Puente Hills, and western part of the Santa Ana Mountains.

#### EXPLANATION OF BIBLIOGRAPHIC REFERENCES

Each bibliographic reference is listed alphabetically under the last name of the author or, in multi-authored papers, under the last name of the senior author. Each reference includes the title, publication source, and year of publication. Review articles on development and production published in petroleum trade journals are included only if they contain some significant information on geology or resources. Abstracts of papers presented at scientific meetings are omitted if references to later publication of these papers are given. When a paper has been published more than once, the reference is listed under the earliest citation. If the paper has been published more than once in the same year, the more readily available reference is used.

The style of the subject index is similar to that of the Bibliography of North American Geology. References have been placed under one or more of the following categories: areal geology, economic geology, engineering geology, environmental, geochronology, geomorphology, geophysical surveys, hydrogeology, paleontology, petrology, sedimentation, seismology, stratigraphy, and structural geology. Many of the more comprehensive references include material on more than one subject; for these only principal subjects were indexed.

#### SERIAL LIST

Publications cited here in abstract form are available in most geological libraries. Names of serial publications are abbreviated in these references in the style commonly used in technical bibliographies of the U.S. Geological Survey and are listed alphabetically in abbreviated form in the following serial list.

Unpublished theses are generally available on microfilm from University Microfilms, Inc., 300 North Zeeb Road, Ann Arbor, Michigan 48103. They are not included in this bibliography if the significant part has been published. Some unpublished municipal and college technical reports that are available only from their source are cited.

# SERIAL LIST

- Acoust. Soc. America Jour. -- Acoustical Society of America Journal  
American Institute of Physics. New York, N.Y.
- Allan Hancock Found. Occ. Papers -- Allan Hancock Foundation Occasional  
Papers. University of Southern California Press. Los Angeles, Calif.
- Allan Hancock Pacific Exped. -- Allan Hancock Pacific Expeditions.  
University of Southern California Press. Los Angeles, Calif.
- Am. Assoc. Adv. Sci. Pub. -- American Association for the Advancement  
of Science Publication. Washington, D.C.
- Am. Assoc. Petroleum Geologists Bull. -- Bulletin of the American  
Association of Petroleum Geologists, Tulsa, Okla.
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Section. Los Angeles, Calif.
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Publication. Los Angeles, Calif.
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of the American Institute of Mining, Metallurgical, and Petroleum  
Engineers. New York, N.Y.
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American Geologist). Minneapolis, Minn.
- Am. Geophys. Union Mon. -- Geophysical Monographs of the American  
Geophysical Union. Washington, D.C.
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- Am. Jour. Sci. -- American Journal of Science. New Haven, Conn.
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- Assoc. Eng. Geologists Bull. -- Bulletin of the Association of Engineer-  
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- Bulls. Am. Paleontology -- Bulletins of American Paleontology.  
Paleontological Research Institution. Ithaca, N.Y.
- California Acad. Sci. Mem. -- Memoir of the California Academy of  
Sciences. San Francisco, Calif.
- California Acad. Sci. Proc. -- Proceedings of the California Academy  
of Sciences. San Francisco, Calif.
- California Dept. Public Works Div. Water Resources Bull. -- Bulletin  
of the California Department of Public Works, Division of Water  
Resources. Sacramento, Calif.
- California Div. Mines and Geology Ann. Rept. -- State of California  
Department of Natural Resources, Division of Mines and Geology  
Annual Reports. San Francisco, Calif.

California Div. Mines and Geology Bull. -- State of California Department of Natural Resources, Division of Mines and Geology Bulletin.

California Div. Oil and Gas Map Sheet -- California Division of Oil and Gas Map Sheets. San Francisco, Calif.

California Div. Water Resources Bull. -- California Division of Water Resources Bulletin. San Francisco, Calif.

California Inst. Tech. Contr. -- California Institute of Technology, Division of Geological and Planetary Sciences Contribution. Pasadena, Calif.

California Jour. Mines and Geology -- California Journal of Mines and Geology (after 1958 incorporated in California State Mineralogist Rept.). San Francisco, Calif.

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California Water Pollution Control Board Pub. -- California Water Pollution Control Board Publication. Sacramento, Calif.

California Univ. Inst. Eng. Research Ser. -- California University Institute Engineering Research Series. Berkeley, Calif.

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California Univ. Mus. Contr. -- California University Museum Contribution. Riverside, Calif.

Canadian Jour. Earth Sci. -- Canadian Journal of Earth Sciences. Natural Research Council of Canada. Ottawa, Ontario, Canada.

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Coast Geol. Soc. Occ. Papers -- Coast Geological Society Occasional Papers. Los Angeles, Calif.

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Deep-Sea Research -- Deep-Sea Research and Oceanographic Abstracts. Pergamon Press. London, England.

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Geol. Soc. America Spec. Paper -- Geological Society of America  
 Special Papers. Boulder, Colo.

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Hawaii Inst. Geophys. Data Rept. -- Hawaii Institute of Geophysics  
 Data Report. University of Hawaii. Honolulu, Hawaii.

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Jour. Foraminiferal Res. -- Journal of Foraminiferal Research. Allen  
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 Tulsa, Okla.

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Jour. of the West -- Journal of the West. Los Angeles, Calif.

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Revelle, R. R., and Emery, K. O., 1951, Wilson, T. A., and Mero, J. L., 1966

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## Petroleum

Adams, M. V., 1973; Allen, A. A., and others, 1970; Allen, D. R., 1964; Allen, D. R., and Hazenbush, G. C., 1957; Allen, D. R., and Joujon-Roche, J. E., 1958; Arnold, R., 1907a; Bailey, T. L., 1947; Bailey, W. C., 1941; Barbat, W. F., 1958; Barnes, R. M., and Bowes, G. H., 1930; Bauer, W. E., and others, 1966; Beal, C. H., 1948; Bowes, G. H., 1943; Brown, J. B., 1968; California Division of Oil and Gas, 1961, 1963, 1969; California Resources Agency, 1971; Carriel, J. T., 1942; Carter, F. B., 1954; Castro, M. J., 1966; Clark, B. L., 1943; Colburn, I. P., and Tucker, D. R., 1973; Cole, J. M., 1969; Cordova, S., 1963, 1972; Corwin, C. H., 1946; Crowder, R. E., 1956, 1958, 1960, 1968; Crown, W. J., 1941; Curran, J. F., 1972; Curran, J. F., and others, 1971a, 1971b; Davis, E. L., 1943; Dodd, H. V., 1926; Doleman, S. G., 1931, 1938a, 1938b; Dosch, M. W., and Mitchell, W. S., 1964; Driver, H. L., 1943; Dryden, J. E., and others, 1965; Dudley, P. H., 1954; Durham, D. L., and Yerkes, R. F., 1964; Edwards, E. C., 1951; Eldridge, G. H., 1901, 1903; Eldridge, G. H., and Arnold, R., 1907; Emery, K. O., 1960b; English, W. A., 1926; Eschner, S., and Scribner, M. K., 1972; Fischer, P. J., and Stevenson, A. J., 1973; Foster, J. F., 1954; Frame, R. G., 1960; Gale, H. S., ed., 1932, 1934; Gardett, P. H., 1971; Gaskell, T. F., 1965; Gester, S. H., 1924; Goodban, F. R., 1958; Goodyear, W. A., 1888; Grant, U. S., 4th, and Hertlein, L. G., 1943; Graves, D. T., 1954; Gray, C. H., Jr., and others, 1971; Grinsfelder, S., 1943; Hacker, R. N., 1969; Haines, R. B., and F. E., 1954; Hall, K. B., 1969; Hall, K. B., and Curran, J. F., 1972; Harding, T. P., 1973; Hardoin, J. L., 1961; Hazenbush, G. C., and Allen, D. R., 1958; Hazzard, J. C., 1947; Herron, R. F., 1965; Hertel, F. W., 1929; Higgins, J. W., 1958, 1970; Hill, M. L., 1943; Hoots, H. W., 1943; Huguenin, E., 1926; Hunter, A. L., and Allen, D. R., 1956; Hunter, A. L., and others, 1955; Ingram, W. L., 1966a, 1966b, 1968; Jenkins, O. P., 1943a; Jennings, C. W., and Troxel, B. W., 1954; Johnson, R. A., 1962; Kluth, E., 1943; Kribbs, G. R., 1943; Kerr, W. S. W., 1924; Kilkenney, J. E., 1971; Lang, H. R., 1972; Loken, K. P., 1964; Mayuga, M. N., 1970; McClellan, H. W., and Haines, R. B., 1951; McCulloh, T. H., 1969a; McMurdie, D. S., 1973; Metzner, L. H., 1935, 1943; Mikolaj, P. G., and others, 1972; Mitchell, W. S., 1971; Munger, A. H., 1974; Murray-Aaron, E. R., 1947; Murray-Aaron, E. R., and Pfeil, A. W., 1948; Musser, E. H., 1925a, 1925b; Nagle, H. E., and Parker, E. S., 1971; Nelson, T. W., and Burk, C. A., 1966; Noble, F. J., 1966; Oakeshott, G. B., 1951; Olmsted, F. H., 1950; Orr, W. L., and

Emery, K. O., 1956; Parker, F. S., 1943, 1954, 1965, 1971; Popenoe, H. L., 1960, 1961, 1962; Porter, W. W., 2nd, 1943; Prutzman, P. W., 1913; Rand, W. W., 1951; Reed, R. D., 1943a; Reese, R. G., 1943; Reinhart, P. W., 1970; Rintoul, W. T., 1969, 1973; Rothwell, W. T., Jr., 1958; Rubel, A. C., 1966; Scasz, S. S., and others, 1969; Schultz, F. E., 1971; Smith, M. B., and Schambeck, F. J., 1966; Stanley, E. R., and Stolz, H. P., 1954; Stark, H. E., 1972; Stewart, R. E., 1943; Stolz, H. P., 1943; Swayze, R. O., 1943; Szasz, S. E., and others, 1969; Taliaferro, N. L., and others, 1924; Thompson, W. C., 1949; Thoms, C. C., and Bailey, W. C., 1943; Troxel, B. W., 1954; Truex, J. N., 1971, 1972; Truex, J. N., and Hunter, W. J., 1969, 1973; Vickery, F. P., 1927, 1928, 1943; Waring, C. A., 1915a, 1915b; Watts, E. V., 1948; Watts, W. L., 1897, 1901; Weaver, D. K., and Wilhelm, V. H., 1943a, 1943b; Wilkinson, E. R., 1971; Willis, R. B., 1958; Willis, R. B., and Ballantyne, R. S., 1943; Wilson, T. A., and Mero, J. L., 1966; Winterburn, Read, 1943, 1954; Winterer, E. L., and Durham, D. L., 1962; Wissler, S. G., 1943, 1958; Woodford, A. O., and others, 1945; Ybarra, R. A., and Stockton, A. D., 1964; Yerkes, R. F., 1972; Yerkes, R. F., and others, 1965; Yerkes, R. F., and others, 1969

#### Phosphorite

Barnes, B. B., 1970; d'Anglejan, B. F., 1967, 1968; Dietz, R. S., and others, 1942; Emery, K. O., 1950c, 1960b; Emery, K. O., and others, 1952; Emery, K. O., and Dietz, R. S., 1950; Felix, D. W., 1968; Gorsline, D. S., and Milligan, D. B., 1963; Inderbitzen, A. L., and others, 1970; Mero, J. L., 1961, 1965; Pasho, D. W., 1972; Sorensen, P. E., and Mead, W. J., 1969; Wilson, T. A., and Mero, J. L., 1966

#### Sand and gravel

Wilson, T. A., and Mero, J. L., 1966

#### Tar sands

Chaney, R. W., and Mason, H. L., 1933; Doleman, S. G., 1928; Dosch, M. W., 1965; Heizer, R. F., 1943; Vernon, J. W., and Slater, R. A., 1963; Wilson, T. A., and Mero, J. L., 1966

### ENGINEERING GEOLOGY

#### Earthquake hazards (see also SEISMOLOGY)

Artim, E. R., and Pinckney, C. J., 1973; Bravinder, K. M., 1942; Buchanan, J. M., and others, 1973; Clements, T., and Emery, K. O., 1947; Dill, R. F., 1969; Frame, R. G., 1952; Hamilton, R. M., and others, 1969; Hudson, D. E., and Scott, R. F., 1965; Martner, S. T., 1948; McEuen, R. B., and Pinckney, C. J., 1972; Nunn, H., 1925; Richter, C. F., 1954; Richter, C. F., and Gutenberg, B., 1954; Steinbrugge, K. V., and Moran, D. F., 1954

## General

Cleveland, G. B., and others, 1972; Norris, R. M., 1964;  
Watts, E. V., 1948

## Geotechnical (site) engineering

Austin, C. F., 1968; Harris, L. M., and Ilfrey, W. T., 1969;  
Horton, E. E., 1961; Lamar, D. L., and others, 1968; Merifield,  
R. M., and Lamar, D. L., 1967

## Land subsidence

Gilluly, J., and Grant, U. S., 4th, 1949; Grant, U. S., 4th,  
1954; Grant, U. S., 4th, and Sheppard, W. E., 1939

## Landslides and slumping

Blanc, R. P., and Cleveland, G. B., 1968; Campbell, R. H.,  
1973; Wentworth, C. M., and others, 1970

## ENVIRONMENTAL

Allen, A. A., and Schleuter, R. S., 1969; Allen, A. A., and others,  
1970; Bickmore, D. K., 1967; Butcher, W. S., 1951a; California  
Resources Agency, 1971; Cockerell, T. D. A., 1938; Doyle, L. J.,  
and Bandy, O. L., 1972; Drake, D. E., and others, 1971; Drake, D. E.,  
and others, 1972; Gorsline, D. S., and others, 1971; Gunnier, S.,  
C. G., 1956; Kolpack, R. L., and others, 1971; McMurdie, D. W.,  
1973; Mikolaj, P. G., and others, 1972; Reinhart, P. W., 1970;  
Schneider, W. A., 1954; Straughan, D., 1973; Truex, J. N., and  
Hunter, W. J., 1973; Valentine, J. W., and Meade, R. F., 1961;  
Ventura, C., and Wintz, J., 1971; Vernon, J. W., and Slater, R.  
A., 1963; Stevenson, R. E., and Emery, K. P., 1958; Warme, J. E.,  
1966; Wentworth, C. M., and others, 1970; Wilkinson, E. R., 1971

## GEOCHRONOLOGY (see also PALEONTOLOGY)

Armstrong, R. L., and Suppe, J., 1973; Berger, R., 1966; Bushee,  
J., and others, 1963; DeLisle, M., and others, 1965; Emery, K. O.,  
and Bray, E. E., 1962; Forman, J. A., 1970; Hart, M. W., 1974;  
Hawkins, J. W., Jr., 1971; Holden, J. C., 1968; Ku, Teh-Lung, and  
Kern, J. P., 1974; Larson, E. S., Jr., and others, 1958;  
Merifield, P. M., and others, 1971; Nolf, B., and Nolf, P., 1969;  
Obradovich, J. D., 1968; Orr, P. C., 1956, 1959, 1960a, 1960b;  
Savage, D. L., and Barnes, L. G., 1972; Szabo, B. J., and Vedder,  
J. G., 1971; Turner, D. L., 1968, 1970; Valentine, J. W., and  
Veeh, H. H., 1969; Yeats, R. S., and others, 1966

## GEOMORPHOLOGY

### Basins

Corey, W. H., 1952, 1966; Crowell, J. C., 1973, 1974; Dietz,  
R. S., 1938; Emery, K. O., 1958b, 1960a; Fischer, P. J., 1973;  
Gorsline, D. S., and Emery, K. O., 1959; Shepard, F. P., and  
Emery, K. P., 1941

### Bathymetry

Barnes, P. W., 1969; Buffington, E. C., 1964; Inman, D. L.,  
1950; Krause, D. C., 1964, 1965; Ridlon, J. B., 1970; Shepard,  
F. P., and Emery, K. O., 1941; Stevenson, R. E., and Terry,  
R. D., 1957

## Canyons

Buffington, E. C., 1964; Buffington, E. C., and Moore, D. G., 1963; Chamberlain, T. K., 1964; Cohee, G. V., 1938; Crowell, J. C., 1950, 1952a; Dill, R. F., 1964, 1965, 1967, 1969c; Emery, K. O., and Hulsemann, J., 1963; Felix, D. W., 1969; Felix, D. W., and Gorsline, D. S., 1971; Gatto, L. W., 1970; Gorsline, D. S., and others, 1967; Limbaugh, C., and Shepard, F. P., 1957; Menard, H. W., Jr., 1955a; Moore, D. G., 1965; Palmer, H. D., 1971; Palmer, H. D., and Gorsline, D. S., 1965; Rees, A. J., and others, 1968; Shepard, F. P., 1938c, 1947, 1948, 1961; Shepard, F. P., and Buffington, E. C., 1968; Shepard, F. P., and others, 1969; Shepard, F. P., and Einsele, G., 1962; Shepard, F. P., and Emery, K. O., 1941; Shepard, F. P., and Marshall, N. F., 1969; Yerkes, R. F., and others, 1967

## General

Alpha, T. R., 1970; Bruff, S. C., 1940; Clements, T. D., 1946, 1955; Cotton, C. A., 1942, 1944; Curray, J. R., 1961, 1965; Davis, W. M., 1932; Jenkins, O. P., 1943b; Johnson, D. L., 1967; Merselis, W. B., 1962; Minch, J. A., 1970a; Orr, P. C., and Broecker, W. S., 1957; Palmer, H. D., 1965c; Putnam, W. C., 1938, 1942; Sharp, R. P., 1954; Shepard, F. P., 1941, 1946; Shepard, F. P., and Emery, K. O., 1941; Stevenson, R. E., and others, 1956; Terry, R. D., and Stevenson, R. E., 1957; Weaver, D. W., and Doerner, D. P., 1967

## Holocene deposits

Bandy, O. L., and others, 1964; Butcher, W. S., 1951; Cook, D. O., 1969; Dill, R. F., 1969b; Emery, K. O., 1950a, 1952, 1954b, 1962; Emery, K. O., and Bray, E. E., 1962; Emery, K. O., and others, 1952; Emery, K. O., and Hoggan, D., 1958; Emery, K. O., and Terry, R. D., 1956; Fischer, P. J., 1972; Fleischer, P., 1970; Gaal, R. A. P., 1966a, 1966b; Gorsline, D. S., 1958, 1968; Gorsline, D. S., and Barnes, P. W., 1970, 1972a, 1972b; Grim, R. E., and others, 1949; Hamilton, E. L., and others, 1956; Hand, B. M., 1962; Hand, B. M., and Emery, K. O., 1964; Handin, J. W., 1951; Haner, B. E., 1969, 1971; Hulsemann, J., and Emery, K. P., 1961; Krause, D. C., 1964; Ludwick, J. C., Jr., 1950; MacDonald, G. A., 1934; Moore, D. G., 1957; Norris, R. M., 1964; Piper, D. J. W., 1970; Piper, D. J. W., and Marshall, N. F., 1969; Prensky, S. E., 1973a, 1973b; Revelle, R. R., and Shepard, F. P., 1939; Scholl, D. W., 1959, 1960; Shepard, F. P., 1937b; Shepard, F. P., and MacDonald, G. A., 1938; Stevenson, R. E., and Terry, R. D., 1957; Stevenson, R. E., and others, 1959; Thompson, W. C., 1957; Trask, P. D., 1931; Uchupi, E., and Gaal, R. A. P., 1963; Vernon, J. W., 1965; Wimberley, C. S., 1955, 1963, 1964; Wrath, W. F., 1936



### Submarine fans

Bartow, J. A., 1971; Haner, B. E., 1969; Normark, W. R., 1970; Normark, W. R., and Piper, D. J. W., 1969, 1972; Piper, D. J. W., 1970; Piper, D. J. W., and Marshall, N. F., 1969; Piper, D. J. W., and Normark, W. R., 1971; Shepard, F. P., and Buffington, E. C., 1968; Sullwold, H. H., Jr., 1960; Yeats, R. S., and others, 1974

### Terraces

Birkeland, P. W., 1972; Clements, T. D., 1948; Davis, W. M., 1931; Davis, W. M., and others, 1930; Dietz, R. S., 1963; Dill, R. F., 1969a; Emerson, W. K., and Addicott, W. O., 1953; Emery, K. O., 1958a; Gastil, R. G., 1961; Goldberg, J., 1940; Kemnitzer, L. E., 1933; Ku, Teh-Lung, and Kern, J. P., 1974; Lipps, J. H., 1964b; Lipps, J. H., and others, 1968; Orr, P. C., 1959, 1960, 1968; Palmer, H. D., and others, 1965; Peterson, G. L., 1970b; Putnam, W. C., 1954; Ridlon, J. B., 1972; Scholl, D. W., 1960; Smith, W. S. T., 1933; Szabo, B. J., and Vedder, J. G., 1971; Upson, J. E., 1949, 1951b; Valentine, J. W., and Rowland, R. W., 1969; Valentine, J. W., and Veeh, H. H., 1969; Vedder, J. G., and Norris, R. M., 1963; Woodring, W. P., and others, 1946

## GEOPHYSICAL SURVEYS

### General

Buffington, E. C., and Moore, D. G., 1963; Emery, K. O., 1960b

### Gravity

Aldrich, J. K., 1969a, 1969b; American Geophysical Union, 1964; Brisbin, W. C., 1957; Chapman, R. H., 1966; Elliott, W. J., 1966, 1970; Harrison, J. C., 1960a, 1960b; Harrison, J. C., and others, 1966; McCulloh, T. H., 1957, 1960, 1967, 1969b; Rietman, J. D., and Aldrich, J. K., 1969; Vedder, J. G., and others, 1974; von Huene, R. E., 1969; von Huene, R. E., and Ridlon, J. B., 1965, 1966; Woollard, G. P., and Joesting, H. R., 1964

### Heat flow

Lee, T. C., 1973; Sass, J. H., and others, 1971; von Herzen, R. P., 1964

### Magnetics

Bromery, R. W., and others, 1960; Chase, C. G., and others, 1970; Fabiano, E. B., and Peddie, N. W., 1969; Hamilton, N., and Rees, A. I., 1970; Krause, D. C., 1965; Loughridge, M. S., 1968; Mason, R. G., and Raff, A. D., 1961, 1962; Rees, A. J., 1971; Rees, A. J., and others, 1968; Theberge, A. E., Jr., 1971; Vedder, J. G., and others, 1974; von Huene, R. E., and Ridlon, J. B., 1965; von Rad, U., 1971

## Seismic

Doyle, L. J., and Bandy, O. L., 1972; Gutenberg, B., and Buwalda, J. P., 1936; Hamilton, E. L., and others, 1969; Hamilton, E. L., and others, 1956; Healy, J. H., 1963; McCulloh, T. H., 1969a; Moore, D. G., 1957, 1960, 1966, 1969; Moore, D. G., and Shumway, G., 1959; Prodehl, C., 1970; Raitt, R. W., 1949; Ridlon, J. B., 1968, 1969, 1970; Roller, J. C., and Healy, J. H., 1963; Schneider, W. A., and Backus, M. M., 1964; Shor, G. G., Jr., and Raitt, R. W., 1958

## HYDROGEOLOGY

### General

California Department of Water Resources, 1961; Eckis, R., 1934; Ellis, A. J., and Lee, E. H., 1919; Troxell, H. C., Hofmann, W., 1954; Thomas, R. G., and others, 1954

### Ground-water conditions

Evenson, R. E., and Miller, G. A., 1963; Gorsline, D. S., 1970; Greene, H. G., and others, 1973; Johnson, D. L., 1969; Muir, K. S., 1968; Poland, J. F., 1959; Poland, J. F., and 1959; Poland, J. F., Piper, A. M., and others, 1956

### Ground-water resources

Burnham, W. L., and others, 1963; Page, R. W., 1963; Thomasson, H. G., Jr., 1951; Upson, J. E., 1951a

## PALEONTOLOGY

### Ages

#### Cretaceous and older

Fife, D. L., and others, 1967; Imlay, R. W., 1963; Silberling, N. J., and others, 1961

#### Cretaceous

Akpati, B. N., 1966; Allison, E. C., 1970a; Almgren, A. A., 1973; Bandy, O. L., 1951; Bukry, J. D., 1969; Bukry, J. D., and Kennedy, M. P., 1969; Champeny, J. D., 1961; Dailey, D. H., 1960; Dailey, D. H., and Popenoe, W. P., 1966; Durham, J. W., 1956; Gibson, J. M., 1973; Holden, J. C., 1964, 1970; Kern, J. P., and Warme, J. E., 1974; Packard, E. L., 1916; Popenoe, W. P., 1936, 1937, 1942, 1954, 1973; Saul, L. R., 1970; Sliter, W. V., 1968; Wilson, N., and Lipps, J. H., 1970

#### Tertiary

Anderson, R. H., 1962; Bandy, O. L., 1953, 1972; Bandy, O. L., and Kolpack, R. L., 1963; Bramlette, M. N., and Sullivan, F. R., 1961; Bukry, J. D., and others, 1973; Clark, B. L., 1943; Dall, W. H., 1879; Durham, J. W., 1954; Hanna, G. D., and Hertlein, L. G., 1943; Herlyn, H. T., 1958; Keen, A. M., and Bentson, H., 1944; Lipps, J. H., 1967; Moore, E. J., 1968; Natland, M. L., 1933a, 1933b, 1957; Natland, M. L., and Rothwell, W. T.,

Jr., 1954; Savage, D. E., and others, 1954; Schenck, H. G., and Kleinpell, R. M., 1936; Schmidt, R. R., 1970; Vedder, J. G., and others, 1974; Winterer, E. L., and Durham, D. L., 1962; Woodring, W. P., and others, 1946

#### Paleocene

Akpati, B. N., 1966; Bell, F. W., 1933; Champeny, J. D., 1961; Doerner, D. P., 1968, 1969a, 1969b; Mallory, V. S., 1959; Mersch, W. R., 1969, 1971; Sullivan, F. R., 1964; Vedder, J. G., 1950; Weaver, D. W., and Doerner, D. P., 1969a

#### Eocene

Akpati, B. N., 1966; Bandy, O. L., 1972; Bell, F. W., 1933; Blaisdell, R. C., 1955; Browning, J. L., 1951; Bukry, J. D., 1969; Bukry, J. D., and Kennedy, M. P., 1969; Clark, B. L., 1926; Classen, W. J., Jr., 1953; Cushman, J. A., and Dusenbury, A. N., 1934; Cushman, J. A., and Hanna, M. A., 1927; Cushman, J. A., and McMasters, J. H., 1936; Dickerson, R. E., 1914a; Doerner, D. P., 1969a, 1969b; Dusenbury, A. N., Jr., 1932; Gibson, J. M., 1971a, 1971b, 1972a, 1972b, 1973; Golz, D. J., 1971; Grier, A. W., 1953; Hanna, M. A., 1926b; Hawley, J. J., 1917; Hornaday, G. R., 1961, 1965; Howe, M. A., 1934; Israelsky, M. C., 1956; Laiming, B., 1943; Mallory, V. S., 1959; McWilliams, R. G., 1972; Mersch, W. R., 1969; Schenck, H. G., 1931; Steineck, P. L., and Gibson, J. M., 1972; Steineck, P. L., and others, 1972; Stock, C., 1931, 1932a, 1937, 1938; Sullivan, F. R., 1965; Vedder, J. G., 1950; Weaver, D. W., 1962; Weaver, D. W., and Doerner, D. P., 1969a; Weaver, D. W., and Molander, G. E., 1964; Weaver, W. R., and Weaver, D. W., 1962; Wilson, R. W., 1949; Woodring, W. P., 1930a, 1931

#### Oligocene

Avila, F. A., and Weaver, D. W., 1969; Bandy, O. L., 1972; Bereskin, S. R., and Edwards, L. N., 1969; Forrest, L. C., 1943; Kleinpell, R. M., and Weaver, D. W., 1961, 1963; Lipps, J. H., and Kalisky, M., 1972; Patet, A., 1972; Renz, H. H., 1942; Schenck, H. G., 1935; Stock, C., 1930, 1932b; Weaver, D. W., and Doerner, D. P., 1969b; Weaver, D. W., and Frantz, J. D., 1967; Weaver, D. W., and Kleinpell, R. M., 1963; Wilson, E. J., 1954

#### Miocene

Arnold, R., 1907b; Avila, F. A., and Weaver, D. W., 1969; Bereskin, S. R., 1969; Bereskin, S. R., and Edwards, L. N., 1969; Campbell, A. S., and Clark, B. L., 1944; Casey, R. E., and Price, A. B., 1973; Casey, R. E., and others, 1972; Corey, W. H., 1929, 1936; Cox, L. R., 1942; Cushman, J. A., 1926; Cushman, J. A., and Laiming, B., 1931; Cushman, J. A., and LeRoy, L. W., 1938; David,

L. R., 1943; Domning, D. P., 1972; Durham, J. W., 1948; Ford, D. W., 1972; Fritsche, A. E., 1967; Hanna, G. D., 1928; Hertlein, L. G., 1928; Hertlein, L. G., and Grant, U. S., 4th, 1960; Hudson, F. S., and Craig, E. K., 1929; Ingle, J. C., Jr., 1967, 1969, 1971, 1972; Keen, A. M., 1942; Kew, W. S. W., 1920; Kleinpell, R. M., 1930, 1938; 1943; Lipps, J. H., 1964a; Lipps, J. H., and Kalisky, M., 1972; Loel, W. F., and Corey, W. H., 1931; Merriam, J. C., 1900; Metzner, L. H., 1935; Minch, J. A., and others, 1970; Mitchell, E. D., Jr., and Lipps, J. H., 1963, 1965; Patet, Alix, 1972; Pierce, R. L., 1956, 1972; Riveroll, D. D., and Jones, B. C., 1954; Savage, D. L., and Barnes, L. G., 1972; Smith, P. B., 1960; Stanton, R. J., Jr., 1966; Turner, D. L., 1970; Vedder, J. G., 1972b; Warren, A. D., 1972; Weaver, D. W., and Doerner, D. P., 1969b; White, W. R., 1956, 1971; White, R. C., and Buffington, E. C., 1948; Wilson, E. C., 1966; Woodring, W. P., 1931; Woodring, W. P., and others, 1936; Wornardt, W. W., Jr., 1972, 1973

#### Pliocene

Adams, B. C., 1932; Arnold, R., 1906, 1907b, 1907c; Bagg, R. M., Jr., 1912; Carson, C. M., 1925a, 1925b; Casey, R. E., and others, 1972; Dall, W. H., 1874; Fitch, J. E., and Reimer, R. D., 1967; Frazier, K., 1968; Grant, U. S., 4th, and Gale, H. R., 1931; Grant, U. S., 4th, and Hertlein, L. G., 1943; Hertlein, L. G., 1929a, 1929b; Hertlein, L. G., and Grant, U. S., 4th, 1943, 1944, 1972; Holden, J. C., 1968; Ingle, J. C., Jr., 1967, 1971, 1972; Kanakoff, G. P., 1954, 1956, 1966; Kern, J. P., 1973; Kern, J. P., and Wicander, E. R., 1974; LeRoy, L. W., 1943; Martin, L., 1952; Meade, R. F., 1966, 1967; Merriam, J. C., 1900; Moody, C. L., 1916; Natland, M. L., 1953; Pressler, E. D., 1929; Rivers, J. J., 1904; Rowland, R. W., 1968, 1972; Soper, E. K., and Grant, U. S., 4th, 1932, 1933; Valentine, J. W., 1962; Vedder, J. G., 1960, 1972b; Waterfall, L. N., 1929; White, W. R., 1956, 1971; Wicander, E. R., 1970; Willett, G., 1946; Wilson, E. C., 1966; Woodring, W. P., 1930b, 1938, 1952; Wornardt, W. W., Jr., 1972; Zinsmeister, W. J., 1970; Zullo, V. A., 1969

#### Pleistocene

Arnold, R., 1903, 1906; Bagg, R. M., Jr., 1912; Bailey, T. L., 1935; Bruff, S. C., 1940, 1946; Chaney, R. W., and Mason, H. L., 1930, 1933; Clark, A., 1931; Cockerell, T. D. A., 1939, 1940; DeLong, J. H., Jr., 1941; Eaton, J. E., 1928; Emery, K. O., 1950b; Emerson, W. K., and Addicott, W. O., 1953; Emerson,

W. K., and Chace, E. P., 1959; Grant, U. S., 4th, and Gale, H. R., 1931; Howard, H., 1949, 1958, 1964; Kanakoff, G. P., and Emerson, W. K., 1959; Kennedy, G. L., 1973; Kern, J. P., and others, 1971; Lance, J. F., 1948; LeRoy, L. W., 1943; Lipps, J. H., and others, 1968; Meade, R. F., 1966, 1967; Miller, L. H., 1914, 1930; Miller, W. E., 1971; Natland, M. L., 1963; Pressler, E. D., 1929; Rivers, J. J., 1904; Rodda, P. U., 1957; Schenck, H. G., 1936; Soule, J. D., and Duff, M. M., 1957; Stearns, R. E. C., 1875; Stock, C., 1935, 1943, 1946; Stock, C., and Furlong, E. L., 1928; Stephens, F., 1929; Szabo, B. J., and Vedder, J. G., 1971; Valentine, J. W., 1956, 1959, 1960, 1961, 1962; Valentine, J. W., and Lipps, J. H., 1963, 1965, 1967; Valentine, J. W., and Rowland, R. W., 1969; Vedder, J. G., and Norris, R. M., 1963; Waterfall, L. N., 1929; Webb, R. W., 1937; Willett, G., 1937, 1938, 1948; Woodring, W. P., 1952, 1957

#### Holocene

Butcher, W. S., 1951a; Cockerell, T. D. A., 1937; Crouch, R. W., 1952, 1954; Harman, R. A., 1964; Kheradpir, A., 1968, 1970; McGlasson, R. H., 1957; Philbrick, R. N., 1967; Resig, J. M., 1958

#### Microfossils

##### Diatoms

Hanna, G. D., 1928; Hanna, G. D., and Hertlein, L. G., 1943; Minch, J. A., and others, 1970; Wornardt, W. W., Jr., 1973

##### Foraminifera

Akpati, B. N., 1966a, 1966b; Allison, E. C., 1970a; Anderson, R. H., 1962; Bagg, R. M., Jr., 1912; Bandy, O. L., 1951, 1953, 1972a, 1972b; Bandy, O. L., and Kolpack, R. L., 1963; Bell, F. W., 1933; Bereskin, S. R., 1969; Bereskin, S. R., and Edwards, L. N., 1969; Blaisdell, R. C., 1955; Browning, J. L., 1951; Butcher, W. S., 1951a; Classen, W. J., Jr., 1953; Crouch, R. W., 1952, 1954; Cushman, J. A., 1926; Cushman, J. A., and Dusenbury, A. N., 1934; Cushman, J. A., and Hanna, M. A., 1927; Cushman, J. A., and Laiming, B., 1931; Cushman, J. A., and LeRoy, L. W., 1938; Cushman, J. A., and McMasters, J. H., 1936; Doerner, D. P., 1968, 1969a; Durham, J. W., 1954; Dusenbury, A. N., Jr., 1932; Ford, D. W., 1972; Gibson, J. M., 1971b, 1972, 1972a, 1973a, 1973b; Grier, A. W., 1953; Hanna, G. D., and Hertlein, L. G., 1943; Harman, R. A., 1964; Herlyn, H. T., 1958; Hornaday, G. R., 1961, 1965; Ingle, J. C., Jr., 1967, 1969, 1971, 1972; Israelsky, M. C., 1956; Kheradpir,

Ahmad, 1968, 1970; Kleinpell, R. M., 1930, 1938; Kleinpell, R. M., and Weaver, D. W., 1961, 1963; Laiming, B., 1943; Lipps, J. H., 1964a, 1967; Lipps, J. H., and others, 1968; Mallory, V. S., 1959; Martin, L., 1952; McGlasson, R. H., 1957; Minch, J. A., and others, 1970; Natland, M. L., 1933a, 1933b, 1957; Natland, M. L., and Rothwell, W. T., Jr., 1954; Patet, A., 1972; Pierce, R. L., 1956, 1972; Resig, J. M., 1958; Riveroll, D. D., and Jones, B. C., 1954; Schmidt, R. R., 1970; Sliter, W. V., 1968; Smith, P. B., 1960; Steineck, P. L., and others, 1972; Turner, D. L., 1970; Vedder, J. G., and others, 1974; Warren, A. D., 1972; Weaver, D. W., 1962; Weaver, D. W., and Doerner, D. P., 1969a, 1969b; Weaver, W. R., and Weaver, D. W., 1962; White, W. R., 1956, 1971; Wicander, E. R., 1970; Wilson, E. J., 1954; Winterer, E. L., and Durham, D. L., 1962; Woodring, W. P., 1930a; Woodring, W. P., and others, 1946; Woodring, W. P., and others, 1936; Wornardt, W. W., Jr., 1972; Wornardt, W. W., Jr., 1973

#### Nannoplankton

Bramlette, M. N., and Sullivan, F. R., 1961; Bukry, J. D., 1969; Bukry, J. D., and others, 1973; Bukry, J. D., and Kennedy, M. P., 1969; Gibson, J. M., 1973; Lipps, J. H., and Kalisky, M., 1972; Sullivan, F. R., 1964, 1965; Vedder, J. G., and others, 1974; Wilson, N., and Lipps, J. H., 1970; Wornardt, W. W., Jr., 1973

#### Ostracodes

Holden, J. C., 1964, 1968, 1970; LeRoy, L. W., 1943

#### Radiolarians

Campbell, A. S., and Clark, B. L., 1944; Casey, R. E., and Price, A. B., 1973; Casey, R. E., and others, 1972; Wornardt, W. W., Jr., 1973

#### Echinoids

Durham, J. W., 1956; Hertlein, L. G., and Grant, U.S. 4th, 1960; Kew, W. S. W., 1920; White, R. C., and Buffington, E. C., 1948; Woodring, W. P., 1938

#### Mollusks

Arnold, R., 1903, 1906, 1907b, 1907c; Avila, F. A., and Weaver, D. W., 1969; Bailey, T. L., 1935; Bruff, S. C., 1940, 1946; Carson, C. M., 1925a, 1926b; Clark, A., 1931; Cockerell, T. D. A., 1937, 1939, 1940; Corey, W. H., 1929, 1936; Dailey, D. H., 1960; Dailey, D. H., and Popenoe, W. P., 1966; Dall, W. H., 1874, 1879; DeLong, J. H., Jr., 1941; Dickerson, R. E., 1914a; Durham, J. W., 1948, 1954; Durham, J. W., 1956; Emerson, W. K., and Addicott, W. O., 1953; Emerson, W. K., and Chace, E. P., 1959; Fife, D. L., and others, 1967; Frazier, K., 1968; Golz, D. J., 1971; Grant, U. S., 4th, and Gale, H. R., 1931; Hanna, M. A., 1926; Hanna, G. D., and Hertlein, L. G., 1943; Hawley, J. J., 1917; Hertlein, L. G., 1928, 1929a, 1929b; Hertlein, L. G., and Grant, U. S., 4th, 1943, 1944; Hudson, F. S., and Craig, E. K., 1929; Imlay, R. W., 1963; Kanakoff, G. P.,

1954, 1956, 1966; Kanakoff, G. P., and Emerson, W. K., 1959; Keen, A. M., and Bentson, H., 1944; Kennedy, G. L., 1973; Kern, J. P., 1973a; Kleinpell, R. M., and Weaver, D. W., 1961; Loel, W. F., and Corey, W. H., 1931; Meade, R. F., 1966, 1967; Merschat, W. R., 1969, 1971; Merriam, J. C., 1900; Metzner, L. H., 1935; Moody, C. L., 1916; Moore, E. J., 1968; Popenoe, W. P., 1936, 1937, 1942; Pressler, E. D., 1929; Rivers, J. J., 1904; Rodda, P. U., 1957; Rowland, R. W., 1968, 1972; Saul, L. R., 1970; Schenck, H. G., 1931, 1935; Silberling, N. J., and others, 1961; Soper, E. K., and Grant, U. S., 4th, 1932, 1933; Stanton, R. J., Jr., 1966; Stephens, F., 1929; Szabo, B. J., and Vedder, J. G., 1971; Valentine, J. W., 1956, 1959, 1960, 1961, 1962; Valentine, J. W., and Lipps, J. H., 1963, 1965, 1967; Valentine, J. W., and Rowland, R. W., 1969; Vedder, J. G., 1950, 1960, 1972; Vedder, J. G., and Norris, R. M., 1963; Waterfall, L. N., 1929; Weaver, D. W., and Frantz, J. D., 1967; Weaver, D. W., and Kleinpell, R. M., 1963; Webb, R. W., 1937; White, R. C., and Buffington, E. C., 1948; Willett, G., 1937, 1938, 1946, 1948; Woodring, W. P., 1930b, 1931a, 1931b, 1938, 1952, 1957; Woodring, W. P., and others, 1946; Woodring, W. P., and others, 1936; Zinsmeister, W. J., 1970; Zullo, V. A., 1969

## Vertebrates

### Birds

Howard, H., 1949, 1958, 1964; Miller, L. H., 1914, 1930; Savage, D. E., and others, 1954

### Fish

David, L. R., 1943; Fitch, J. E., and Reimer, R. D., 1967; Pierce, R. L., 1956

### Mammals

Domning, D. P., 1972; Golz, D. J., 1971; Lance, J. F., 1948; Mitchell, E. C., Jr., and Lipps, J. H., 1963, 1965; Savage, D. L., and Barnes, L. G., 1972; Savage, D. E., and others, 1954; Stearns, R. E. C., 1875; Stock, C., 1930, 1931, 1932a, 1932b, 1935, 1937, 1938, 1943, 1946; Stock, C., and Furlong, E. L., 1928; Wilson, R. W., 1949

## Plants

Chaney, R. W., and Mason, H. L., 1930, 1933; Howe, M. A., 1934; Savage, D. E., and others, 1954

## Trace fossils

Kern, J. P., and Warne, J. E., 1974

## PETROLOGY

### Igneous rocks

#### Intrusive rocks

Larson, E. S., Jr., 1948; MacDonald, G. A., 1939; Neuerburg, G. J., 1951; Palmer, H. D., 1965b; Vedder, J. G., and others, 1974

#### Extrusive rocks

Eaton, G. P., 1957; Forman, J. A., and others, 1972; Gorsline, D. S., 1962; Hawkins, J. W., Jr., 1970; Hawkins, J. W., Jr., and others, 1971; Merifield, R. M., and Lamar, D. L., 1967; Merifield, P. M., and others, 1971; Palmer, H. D., 1964, 1965a; Shelton, J. S., 1954, 1955; Vedder, J. G., and others, 1974; Woodford, A. O., and others, 1968

### Metamorphic rocks

#### Schist

Bailey, E. H., 1941; Bailey, E. H., and others, 1970; Bailey, E. H., and others, 1964; Neuerburg, G. J., 1951; Platt, J. P., 1973; Suppe, J. E., 1970; Vedder, J. G., and others, 1974; White, J. L., 1946

#### Slate

Neuerburg, G. J., 1951

### Sedimentary rocks

#### Areas

Peterson, G. L., 1968

#### Heavy minerals

Fleischer, P., 1970; Flemal, R. C., 1969; Gorsline, D. S., and others, 1971; Heintz, L. O., 1966; McCracken, W. A., 1969; Thor, D. R., and Fritsche, A. E., 1973; Trask, P. D., 1952

#### Stratigraphic units

Bellemin, G. J., 1940; Bellemin, G. J., and Merriam, R. H., 1958; Emery, K. O., 1954b; Erickson, J. W., 1972; Fleischer, P., 1972; Grender, G. C., 1960; Johnson, C. J., 1968; Krause, D. C., 1964; McCracken, W. A., 1972; Sage, O. G., Jr., 1973; Sullwold, H. H., Jr., 1960

## SEDIMENTATION

Bandy, O. L., and others, 1964; Bandy, O. L., and Kolpack, R. L., 1963; Barnes, P. W., 1969, 1970; Bartow, J. A., 1964; Bell, D. L., and Goodell, H. G., 1967; Bellemin, G. J., and Merriam, R. H., 1958; Berger, W. H., 1969; Booth, J. S., 1971; Butcher, W. S., 1951b; Caldwell, J. M., 1956; Cartwright, L. D., Jr., 1928; Carver, J. A., 1960; Chamberlain, T. K., 1964; Clements, T. D., and Dana, S. W., 1944; Cohee, G. V., 1938; Colburn, I. P., 1969; Colburn, I. P., and Rodine, J., 1970; Cole, M. R., 1970, 1973; Conrey, B. L., 1958, 1967; Cook, D. O., 1969; Corey, W. H., 1965; Crowell, J. C., and others, 1966; d'Anglejan, B. F., 1967, 1968; Davis, J. R., 1971; Dietz, R. S., 1963; Dill, R. F., 1964, 1967,



1969a, 1969b; Drake, D. E., and others, 1971; Drake, D. E., and others, 1972; Driver, H. L., 1948; Edwards, L. N., 1967, 1971a; Einsele, G., 1963; Elliott, W. J., and Maytum, J. R., 1965; Emery, K. O., 1950a, 1952, 1954b; Emery, K. O., and Bray, E. E., 1962; Emery, K. O., and Hoggan, D., 1958; Emery, K. O., and Rittenberg, S. C., 1952; Emery, K. O., and Terry, R. D., 1956; Fischer, P. J., 1972; Fleischer, P., 1972; Flemal, R. C., 1967; Garrison, L. E., and Takahasi, K. J., 1950; Gatto, L. W., 1970; Gibson, J. M., 1973; Gorsline, D. S., and others, 1967; Gorsline, D. S., 1971; Gorsline, D. S., and Emery, K. O., 1959; Gorsline, D. S., and others, 1968; Gorsline, D. S., and Grant, D. J., 1972; Gorsline, D. S., and others, 1971; Grim, R. E., and others, 1949; Hand, B. M., Emery, K. O., 1964; Handin, J. W., 1951; Haner, B. E., 1971; Heintz, L. O., 1966a, 1966b; Hulsemann, J., and Emery, K. O., 1961; Inman, D. L., 1950, 1954; Inman, D. L., and Goldberg, E. D., 1963; Johnson, D. L., 1967; Judge, C. W., 1970; Keller, G. H., 1957; Kern, J. P., 1971; Kolpack, R. L., 1973; Komar, P. D., 1970; Krause, D. C., 1964; Kuenen, P. H., 1953; Link, M. H., 1972; Manheim, F. T., 1965; Marlette, J. W., 1954; McCracken, W. A., 1969, 1972a, 1972b; Merschatt, W. R., 1969, 1971; Minch, J. A., 1967; Moore, D. G., 1966; Natland, M. L., 1957; Natland, M. L., and Kuenen, P. H., 1951; Normark, W. R., and Piper, D. J. W., 1972; Norris, R. M., 1952, 1964; O'Brien, J. M., 1972; O'Brien, J. M., 1973; Orr, W. L., and Emery, K. O., 1956; Orr, W. L., and others, 1958; Orr, W. L., and Grady, J. R., 1967; Pasho, D. W., 1972; Peterson, G. L., and others, 1968; Piper, D. J. W., 1970, 1971; Piper, D. J. W., and Marshall, N. F., 1969; Piper, D. J. W., and Normark, W. R., 1971; Polski, W., 1957; Pratt, W. L., Jr., 1956, 1962, 1963; Rees, A. J., 1971; Rees, A. J., and others, 1968; Revelle, R. R., and Shepard, F. P., 1939; Riveroll, D. D., and Jones, B. C., 1954; Rodolfo, K. S., 1964, 1970; Rothwell, W. T., Jr., 1966; Sage, O. G., Jr., 1973; Schleicher, D. L., 1974; Schroeter, C. E., 1973; Shepard, F. P., and others, 1969; Shepard, F. P., and Einsele, G., 1962; Shepard, F. P., and MacDonald, G. A., 1938; Shepard, F. P., and others, 1938; Shepard, F. P., and Wrath, W. F., 1937; Smith, S. V., 1970; Soutar, A., 1969; Spotts, J. H., 1964; Spotts, J. H., and Weser, O. E., 1964; Stanton, R. J., Jr., 1967; Stauffer, P. H., 1965, 1967a, 1967b; Stevenson, R. E., and others, 1954; Stevenson, R. E., and Terry, R. D., 1957; Stevenson, R. E., and others, 1959; Trask, P. D., 1931, 1952; Truex, J. N., 1973; Vernon, J. W., 1965; von Rad, U., 1971; Weser, O. E., 1971; Wildharber, J. L., 1966; Wimberly, C. S., 1964; Winterer, E. L., and Durham, D. L., 1962; Wrath, W. F., 1936; Wright, F. F., 1966; Yates, L. G., 1892

## SEISMOLOGY (see also Earthquake Hazards)

Allen, C. R., and others, 1965; Bravinder, K. M., 1942; Clements, T. D., and Emery, K. O., 1947; Eaton, J. E., 1933; Ellsworth, T. D., and others, 1973; Emery, K. O., 1960b; Frame, R. G., 1952; Gutenberg, B., 1941, 1943; Gutenberg, B., and others, 1932; Hamilton, R. M., and others, 1969; Hanna, W. F., and Sikora, R. F., 1974; Henyey, T. L., 1973; Hileman, J. A., and others, 1973; Hill, R. T., 1928; Housner, G. W., and Hudson, D. E., 1958; Hudson, D. E., and Scott, R. F., 1965; Kew, W. S. W., 1923b; Lee, W. H. K., and Vedder, J. G., 1973; Martner, S. T., 1948; McEuen, R. B., and Pinckney, C. J., 1972; Nunn, H., 1925; Parkin, E. J., 1948; Real, C. R., and Teng, T. L., 1973; Richter, C. F., 1954, 1959; Richter, C. F., and Gutenberg, B., 1954; Sharp, R. V., 1967; Steinbrugge, K. V., and Moran, D. F., 1954; Sylvester, A. G., and others, 1970; Taber, S., 1920; Teng, T. L., and Henyey, T. L., 1973; Teng, T. L., and others, 1973; Townley, S. D., and Allen, M. W., 1939; Willis, B., 1925; Wood, H. O., 1947; Wood, H. O., and Heck, N. H., 1951

## STRATIGRAPHY (see also PALEONTOLOGY, AREAL GEOLOGY, and GEOCHRONOLOGY)

### Ages and units

#### Basement complex

Armstrong, R. L., and Suppe, J., 1973; Bailey, E. H., 1941; Bailey, E. H., and others, 1964; Bushee, J., and others, 1963; Cohen, L. H., and others, 1963; Dibblee, T. W., Jr., 1950, 1966; Ernst, W. G., 1970; Hill, D. J., 1974; Page, B. M., and others, 1951; Platt, J. P., 1972, 1973; Smith, M. B., 1964; Suppe, J. E., 1970a, 1970b; Weaver, D. W., 1969a; Winterer, E. L., and others, 1969; Woodford, A. O., 1924; Woodring, W. P., and others, 1946; Yerkes, R. F., 1972; Yerkes, R. F., and others, 1965

#### Jurassic

Allison, E. C., 1970b

#### Cretaceous

Akpati, B. N., 1966; Allison, E., 1970a; Anderson, F. M., and Hanna, G. D., 1935; Anderson, F. M., 1958; Champeny, J. D., 1961; Colburn, I. P., 1971; Dailey, D. H., 1960; 1960b; Dailey, D. H., and Popenoe, W. P., 1966; Drummond, C. H., 1941; Durham, J. W., 1956; Elliott, W. J., and Maytum, J. R., 1965; Fife, D. L., and others, 1967; Fritsche, A. E., 1973; Gibson, J. M., 1973; Kennedy, M. P., 1971; Kennedy, M. P., and Moore, G. W., 1971b; Kern, J. P., and Warne, J. E., 1974; Maytum, J. R., and Elliott, W. J., 1970; Minch, J. A., 1972; Nordstrom, C. E., 1968, 1970; Nordstrom, C. E., and Peterson, G. L., 1968; Packard, E. L., 1916; Peterson, G. L., 1970a, 1971a, 1971b; Peterson, G. L., and Nordstrom, C. E., 1970; Popenoe, W. P., 1937, 1941, 1942, 1943; Sage, O. G., Jr., 1971; Vedder, J. G., and others, 1969; Waring, C. A., 1917; Weaver, D. W., 1969b; Wilson, H. D., 1942; Zebal, G. P., 1943

### Tertiary

Bailey, T. L., 1952; Corey, W. H., 1965; Mallory, V. S., 1959; Minch, J. A., 1972; Vedder, J. G., and others, 1969; Waring, C. A., 1917; Weaver, C. E., and others, 1944; Weaver, D. W., 1965; White, R. T., and others, 1952; Winterer, E. L., and Durham, D. L., 1962

### Paleocene

Akpati, B. N., 1966; Bell, F. W., 1933; Champeny, J. D., 1961; Doerner, D. P., 1969a, 1969b; Merschat, W. R., 1971; Sage, O. G., Jr., 1973a, 1973b; Weaver, D. W., and Doerner, D. P., 1969a; Vedder, J. G., 1950

### Eocene

Akpati, B. N., 1966; Artim, E. R., 1971; Bandy, O. L., 1972; Bell, F. W., 1933; Bellemin, G. J., and Merriam, R. H., 1958; Blaisdell, R. C., 1955; Campbell, R. H., and others, 1970; Cushman, J. A., and Dusenbury, A. N., 1934; Cushman, J. A., and Hanna, M. A., 1927; Cushman, J. A., and McMasters, J. H., 1936; DeLisle, M., and others, 1965; Dickerson, R. E., 1914b; Doerner, D. P., 1969; Drummond, C. H., 1941; Dusenbury, A. N., Jr., 1932; Effinger, W. L., 1936; Erickson, J. W., 1972; Flynn, C. J., 1970; Gibson, J. M., 1971b, 1972a, 1972b, 1973; Hornaday, G. R., 1961; Howell, D. G., 1974; Jestes, E. C., 1963; Keenan, M. F., 1932; Kelley, F. R., 1943; Kennedy, M. P., 1971a, 1971b; Kennedy, M. P., and Moore, G. W., 1971b; Kirkpatrick, J. C., 1958; Laiming, B., 1943; Link, M. H., 1972; McMasters, J. H., 1933; Nordstrom, C. E., and others, 1966; O'Brien, J. M., 1972, 1973; Peterson, G. L., 1971a, 1971b; Schroeter, C. E., 1972; Stauffer, P. H., 1967b; Steineck, P. L., and Gibson, J. M., 1971, 1972; Steineck, P. L., and others, 1972; Stock, C., 1937; Van de Kamp, P. C., and others, 1973; Vedder, J. G., 1950, 1972a; Vedder, J. G., and Norris, R. M., 1963; Walker, G. W., 1950; Weaver, C. E., and others, 1944; Weaver, D. W., and Doerner, D. P., 1969a; Weaver, D. W., and Molander, G. E., 1964; Wilson, H. D., 1942; Woodford, A. O., and others, 1972; Woodford, A. O., and others, 1968; Yeats, R. S., 1970b; Yeats, R. S., and others, 1970

### Oligocene

Avila, F. A., and Weaver, D. W., 1969; Bereskin, S. R., and Edwards, L. N., 1969; Carver, J. A., 1960; Drummond, C. H., 1941; Flemal, R. C., 1967; Grender, G. C., 1962; Kew, W. S. W., 1924; Kleinpell, R. M., and Weaver, D. W., 1963; Lipps, J. H., 1967; McCracken, W. A., 1969a, 1969b, 1971, 1972; O'Brien, J. M., 1972, 1973; Paschall, R. H., 1959; Patet, A., 1972; Protzman, D. L., 1960; Reed, R. D., 1929; Van de Kamp, P. C., and others, 1973; Weaver, D. W., and Doerner, D. P., 1969b; Wilson, E. J., 1954; Woodford, A. O., and others, 1972; Woodford, A. O., and others, 1968

## Miocene

Artim, E. R., 1971; Avila, F. A., 1968; Bartow, J. A., 1964, 1966, 1971; Blackerby, B. A., 1963; Bramlette, M. N., 1946; Campbell, R. H., 1968; Carson, C. M., 1965; Casey, R. E., and others, 1972; Cleveland, G. B., 1960; Corey, W. H., 1936; Dickinson, W. R., 1969; Dickinson, W. R., and Lowe, D. R., 1966; Drummond, C. H., 1941; Eaton, G. P., 1957, 1958; Edwards, L. N., 1967, 1971a, 1971b, 1972; Ford, D. W., 1972; Forman, J. A., and others, 1972; Fritsche, A. E., 1969; Grender, G. C., 1962; Hobson, R. D., 1965; Holzman, J. E., 1952; Hudson, F. S., and Craig, E. K., 1929; Ingle, J. C., Jr., 1969, 1971; Kleinpell, R. M., 1938, 1943; Lipps, J. H., 1967; Loel, W. F., 1918; Loel, W. F., and Corey, W. K., 1932; Lowe, D. R., 1969; Mayuga, M. N., 1970; Merifield, P. M., and others, 1971; Minch, J. A., 1967, 1970b; Moore, D. G., 1954; Nolf, B., and Nolf, P., 1969; Orwig, E. R., 1957; Palmer, H. D., 1964; Piper, D. J. W., 1971; Piper, D. J. W., and Normark, W. R., 1971; Riveroll, D. D., and Jones, B. C., 1954; Schleicher, D. L., 1974; Scholl, D. W., 1959, 1960; Shelton, J. S., 1954, 1955; Smith, P. B., 1960; Stanton, R. J., Jr., 1967; Stuart, C. J., 1973a, 1973b, 1974; Sullwold, H. H., Jr., 1960; Vedder, J. G., 1971, 1972b; Warren, A. D., 1970, 1972; Weaver, D. W., and Doerner, D. P., 1969b; Weaver, D. W., and others, 1969; Weaver, D. W., and Meyer, G. L., 1969; White, W. R., 1956, 1971; Winterburn, R., 1943; Wissler, S. G., 1943; Woodford, A. O., 1925; Woodford, A. O., and Bailey, T. L., 1928; Woodford, A. O., and others 1972; Woodford, A. O., and others, 1946; Woodring, W. P., and others, 1936; Yeats, R. S., 1970; Yerkes, R. F., 1957

## Pliocene

Adams, M. V., 1973; Arnold, R., 1906; Arnold, R., and Arnold, D., 1902; Baldwin, E. J., 1959; Bartow, J. A., 1964; Cartwright, L. D., Jr., 1928; Casey, R. E., and others, 1972; Conrey, B. L., 1958, 1958, 1967; Crowell, J. C., and others, 1966; Duggan, D. E., 1964; Edwards, E. C., 1934; English, W. A., 1914; Hawkins, J. W., Jr., and others, 1971; Hertlein, L. G., 1929b; Natland, M. L., 1952; Rowland, R. W., 1968, 1972; Slosson, J. E., 1958; Thomson, A. F., 1971; Vedder, J. G., 1972b; Weaver, D. W., and Meyer, G. L., 1969; Wicander, E. R., 1970; White, W. R., 1956, 1971; Zullo, V. A., 1969

## Pleistocene

Arnold, R., 1903, 1906; Arnold, D., and Arnold, R., 1902; DeLong, J. H., Jr., 1941; Emery, K. P., 1950b; English, W. A., 1914; Kanakoff, G. P., and Emerson, W. K., 1959; Kennedy, G. L., 1973; Kern, J. P., and others, 1971; Natland, M. L., 1952; Prensky, S. E., 1973; Rodda, P. U., 1957; Tieje, A. J., 1926; Woodford, A. O., 1928

## Holocene

Gorsline, D. S., 1962; Gorsline, D. S., and others, 1968;  
Prensky, S. E., 1973

## General

### Correlation charts or summaries

Bandy, O. L., 1972b; Clark, B. L., 1943; Colburn, I. P., 1973; Corey, W. H., 1954; Durham, J. W., 1954; Durham, J. W., and Allison, E. C., 1960; Durham, J. W., and others, 1954; Eaton, J. E., 1928, 1943; Emery, K. O., and Shepard, F. P., 1945; Forrest, L. C., 1943; Gibson, J. M., 1971a; Holman, W. H., 1958; Hornaday, G. R., and Phillips, F. J., 1972; Jahns, R. H., 1954c; Jenkins, O. P., 1943b; Jennings, C. W., and Troxel, B. W., 1954; Kennedy, M. P., and Moore, G. W., 1971a; Kennett, W. E., 1952; Kew, W. S. W., 1923a; Milow, E. D., 1957; Nordstrom, C. E., 1967; Oakeshott, G. B., 1951; Oakeshott, G. B., and others, 1954; Paschall, R. H., 1956; Popenoe, W. P., 1954; Popenoe, W. P., and others, 1960; Redwine, L. E., and others, 1952; Reed, R. D., 1932; Rust, B. R., 1966; Troxel, B. W., 1954; Vedder, J. G., 1973; Weaver, D. W., 1969c; Wissler, S. G., 1958; Woodford, A. O., and others, 1954; Woodring, W. P., 1952; Woodring, W. P., and Popenoe, W. P., 1945

### Regional cross sections

Bailey, T. L., and Jahns, R. H., 1954; Campbell, R. H., 1973; Durham, J. W., and others, 1954; Emery, K. O., and Shepard, F. P., 1945; Jahns, R. H., 1954c; Jennings, C. W., and Troxel, B. W., 1954; Knapp, R. R., and others, 1962; Stehli, F. G., and others, 1958; Troxel, B. W., 1954; Vedder, J. G., and others, 1974

## STRUCTURAL GEOLOGY (see also AREAL GEOLOGY)

### Faults

Allen, C. R., and others, 1960; Allen, C. R., and others, 1965; Artim, E. R., and others, 1971; Artim, E. R., and others, 1973; Bailey, T. L., and Jahns, R. H., 1954; Baird, A. K., and others, 1974; Buck, C. A., and Moores, E. M., 1968; Campbell, R. H., and others, 1966; Clements, T., 1937; Corey, W. H., 1954; Crowell, J. C., 1952b, 1968; Davis, G. A., and Burchfiel, B. C., 1973; Dibblee, T. W., Jr., 1950, 1965, 1966, 1972; Eaton, J. E., 1923, 1933; Emery, K. O., 1960b; Euge, K. M., and others, 1973; Ferguson, R. N., and Willis, C. G., 1924; Fischer, P. J., and Kolpack, R. L., 1971; Fisher, R. V., and Dibblee, T. W., Jr., 1961; Hamilton, W. B., 1962; Harding, T. P., 1973; Hart, M. W., 1974; Hazzard, J. C., 1944; Hill, M. L., 1928, 1930, 1954, 1971b, 1974; Hill, M. L., and Dibblee, T. W., Jr., 1953; Howell, D. G., and others, 1974; Hudson, D. E., and Scott, R. F., 1965; Jahns, R. H., 1954c; Jennings, C. W., 1973;

Kern, J. P., 1973b; Kew, W. S. W., 1923; Krause, D. C., 1961; McEuen, R. B., and Pinckney, C. J., 1972; Menard, H. W., Jr., 1955b; Moody, J. D., and Hill, M. J., 1956; Moore, G. W., 1972; Nagle, H. E., and Parker, E. S., 1971; Newton, R. C., 1958; Page, B. M., and others, 1951; Peterson, G. L., 1970b; Platt, J. P., and Stuart, C. J., 1974; Raff, A. D., 1962; Reed, R. D., 1930; Roubanis, A. S., 1963; Sage, O. G., Jr., 1973; Schroeter, C. E., 1972; Sharp, R. V., 1967; Shelton, J. W., 1968; Shepard, F. P., 1937a, 1938a; Smith, M. B., 1964; Suppe, J. E., 1970a; Truex, J. N., 1972; Vedder, J. G., and others, 1974; Wentworth, C. M., and others, 1970; Wiegand, J. W., 1970; Wilcox, R. E., and others, 1973; Woodford, A. O., 1960; Yeats, R. S., 1969, 1973a, 1973b, 1974; Yerkes, R. F., and others, 1965; Yerkes, R. F., and Wentworth, C. M., 1965; Ziony, J. I., 1973; Ziony, J. I., and others, 1974

#### Folds

Duggan, D. E., 1964; Eaton, J. E., 1923; Ferguson, R. N., and Willis, C. G., 1924; Healy, J. H., 1963; Kerr, P. F., and Schenck, H. G., 1928; Truex, J. N., 1974

#### Tectonics

Atwater, T. M., 1970; Bailey, E. H., and others, 1970; Bailey, T. L., 1943; Campbell, R. H., and Yerkes, R. F., 1971; Chase, C. G., and others, 1970; Corey, W. H., 1966; Crowell, J. C., 1973, 1974; Doyle, L. J., 1971; Doyle, L. J., and Bandy, O. L., 1972; Driver, H. L., 1948; Emery, K. O., and Shepard, F. P., 1945; Ernst, W. G., 1970; Fischer, P. J., 1973; Hamilton, W. B., and Meyers, W. B., 1966, 1968; Hawkins, J. W., Jr., 1969; Hill, M. L., 1971a; Hoots, H. W., 1928; Jahns, R. H., 1958; Krause, D. C., 1965; Lamar, D. L., 1961; Larson, R. L., and others, 1968; Lawson, A. C., 1893; Menard, H. W., Jr., 1966; Peterson, G. L., and others, 1968; Platt, J. P., 1973; Reed, R. D., 1943b; Reed, R. D., and Hollister, J. S., 1936; Ridlon, J. B., 1972; Ritter, W. E., 1901; Schoellhamer, J. E., and Woodford, A. O., 1951; Shepard, F. P., 1938b, 1939; Shepard, F. P., and Emery, K. O., 1941; Shepard, F. P., and others, 1939; Thompson, G. A., and Talwani, M., 1964; Thompson, W. C., 1957; Vickery, F. P., 1927, 1928; von Huene, R. E., 1969; Wagner, H. C., and Junger, A., 1972; Woodford, A. O., and others, 1971; Yeats, R. S., 1968a, 1968b, 1970a, 1971; Yeats, R. S., and others, 1974; Yerkes, R. F., and Campbell, R. H., 1971