DMG OPEN-FILE REPORT 92-03

APPENDIX FOR PRELIMINARY FAULT ACTIVITY MAP OF CALIFORNIA

1992

CALIFORNIA DEPARTMENT OF CONSERVATION

Division of Mines and Geology

THE RESOURCES AGENCY DOUGLAS P. WHEELER SECRETARY FOR RESOURCES STATE OF CALIFORNIA PETE WILSON GOVERNOR DEPARTMENT OF CONSERVATION EDWARD G. HEIDIG DIRECTOR



DIVISION OF MINES AND GEOLOGY JAMES F. DAVIS STATE GEOLOGIST

APPENDIX A

CLASSIFIED FAULTS (For complete references see Appendix B) Note: The names following the abbreviation SSZ (Special Study Zone) are the quadrangles issued by the State showing the boundaries of officially zoned faults.

1

MAHOGANY MOUNTAIN FAULT ZONE HOLOCENE; QUATERNARY

Bryant, W.A., 1990a Hart and others, 1991 SSZ. Dorris, Red Rock Lakes

2

IKES MOUNTAIN FAULT AND UNNAMED FAULTS OF BUTTE VALLEY

LATE QUATERNARY; QUATERNARY Williams, H., 1949 (p. 54, Plate 1) Wood, P.R., 1960 Bryant, W.A., 1990a Hart and others, 1991

2A

MEISS LAKE FAULT

LATE QUATERNARY; HOLOCENE Bryant, W.A., 1990a Hart and others, 1991

3

MOUNT HEBRON FAULT ZONE

LATE QUATERNARY? Bryant, W.A., 1990a Wood, P.R., 1960

4

CEDAR MOUNTAIN FAULT ZONE

LATE QUATERNARY; HOLOCENE Bryant, W.A., 1990a Hart and others, 1991 SSZ: Sams Neck, Dorris, Macdoel, Sheep Mtn., Bray, Sharp Mtn., Tennant, Garner Mtn.

5

GILLEM FAULT

LATE QUATERNARY; QUATERNARY Donnelly-Nolan and Champion, 1987 Donnelly-Nolan, J.M., 1989 Bryant, W.A., 1990e Hart and others, 1991

6

BIG CRACK FAULT

LATE QUATERNARY Donnelly-Nolan and Champion, 1987 Donnelly-Nolan, J.M., 1989 Bryant, W.A., 1990e Hart and others, 1991 7

SURPRISE VALLEY FAULT HOLOCENE-LATE QUATERNARY Clark and others, 1984 (5,600-13,000 yrs.) Bryant, W.A., 1990b Hart and others, 1991 Hedel, C.W., 1984 SSZ: Fort Bidwell, Lake City, Cedarville, Warren Peak, Eagle Peak, Eagleville, Snake Lake.

7A

GOOSE LAKE FAULT

LATE QUATERNARY Bryant, W.A., 1990d Hart and others, 1991

7B

DAVIS CREEK FAULT LATE QUATERNARY Bryant, W.A., 1990d

Hart and others, 1990

7C

FITZHUGH CREEK FAULT

QUATERNARY Bryant, W.A., 1990d Hart and others, 1991

7D

JESS VALLEY FAULT

QUATERNARY Bryant, W.A., 1990d Hart and others, 1991

8

UNNAMED FAULT

LATE QUATERNARY Donnelly-Nolan, 1989 Muffler and others, 1989 (p. 200)

9

UNNAMED FAULTS

HOLOCENE Donnelly-Nolan, 1989

10

UNNAMED FAULTS

QUATERNARY Bryant, W.A., 1990a Hart and others, 1991

CEDAR MOUNTAIN FAULT ZONE (SOUTHERN PART)

LATE QUATERNARY ? Bryant, W.A., 1990a Donnelly-Nolan, 1989 Hart and others, 1991 SSZ: Bray, Sharp Mountain, Tennant

12

YELLOW BUTTE FAULT

QUATERNARY

Mack, S., 1960 Williams, H., 1949 (p. 53)

13

LOST MAN FAULT (OFFSHORE)

QUATERNARY Clarke and Field, 1989 Clarke, S.H., Jr., 1992 (age, p. 215) Kelsey and Carver, 1988 (age, p. 4812)

14

GROGAN FAULT (OFFSHORE)

QUATERNARY

Clarke and Field, 1989 Clarke, S.H., Jr., 1992 (age, p. 215) Kelsey and Carver, 1988 (age, p. 4812)

15

SEAWARD EDGE OF CASCADIA SUBDUCTION ZONE (OFFSHORE)

LATE QUATERNARY? (See Note 1 on map) Clarke, S.H., Jr., 1992, p. 199, Fig. 2, p. 220.

16

BALD MOUNTAIN-BIG LAGOON FAULT ZONE (OFFSHORE) LATE QUATERNARY

Clarke and Field, 1989 Clarke, S.H., Jr., 1992 (age, p. 215) Kelsey and Carver, 1988 (age, p. 4812)

17

LOST MAN FAULT

QUATERNARY

Kelsey and Carver, 1988

18

SURPUR CREEK FAULT

QUATERNARY Kelsey and Carver, 1988 (Fig. 2) Wagner and Saucedo, 1987

19

FAULTS BENEATH MOUNT SHASTA QUATERNARY

Williams, H., 1934 (p. 232, 234-236, 244)

20

ASH CREEK FAULT ZONE QUATERNARY Bryant, W.A., 1990a

Hart and others, 1990

21

BLACK FOX MOUNTAIN FAULT ZONE

QUATERNARY Bryant, W.A., 1990a Hart and others, 1991

22

STEPHENS PASS FAULT

HISTORIC (1978 earthquake rupture) Bennett and others, 1979 Bryant, W.A., 1990a Hart and others, 1991 Cramer, C.H., 1979 SSZ: Rainbow Mtn.

23

UNNAMED FAULTS

LATE QUATERNARY, HOLOCENE ? Hart and others, 1991

24

MAYFIELD FAULT

HOLOCENE Donnelly-Nolan, 1990 Wills, C.J., 1990a Hart and others, 1991 SSZ: Porcupine Butte, Indian Spring Mtn., East of Pondosa

25

UNNAMED FAULTS

LATE QUATERNARY; HOLOCENE Champion and Donnelly-Nolan, 1989 Donnelly-Nolan, J.M., 1989 Wills, C.J., 1990a Woodward-Clyde Consultants, 1987 Hart and others, 1991

26

LIKELY FAULT

QUATERNARY? Bryant, W.A., 1990c (late Quaternary? in part) Hart and others, 1991 Howard, J.K., 1988 (pre-Quaternary?) Potter, S.L., 1988 (pre-Quaternary)

26A

NELSON CORRAL FAULT LATE QUATERNARY? Bryant, W.A., 1990c Hart and others, 1991

PITTVILLE FAULT

LATE QUATERNARY; HOLOCENE Wills, C.J., 1990a Woodward-Clyde Consultants, 1987 Hart and others, 1991

28

McARTHUR FAULT

HOLOCENE Wills, C.J., 1990a Hart and others, 1991 Woodward-Clyde Consultants, 1987 SSZ: Fall River Mills, Coble Mtn., Jellico, Swains Hole

29

HAT CREEK FAULT

HOLOCENE Wills, C.J., 1990a Hart and others, 1991 Woodward-Clyde Consultants, 1987 SSZ: Hogback Ridge, Murken Bench, Old Station

30

UNNAMED FAULTS

LATE QUATERNARY AND HOLOCENE Wills, C.J., 1990a Hart and others, 1991 Woodward-Clyde Consultants, 1987

30A

ROCKY LEDGE FAULT

HOLOCENE

Wills, C.J., 1990a Hart and others, 1991 SSZ: Burney, Cassel

31

WILLOW SPRINGS FAULT Not HOLOCENE as earlier published (Sanborn, 1960) Howard, J.K., 1987

32

GROGAN FAULT (ALSO SEE RED MOUNTAIN FAULT—NO. 411) QUATERNARY Carver, G.A., 1989b Kelsey and Carver, 1988 Wagner and Saucedo, 1987

33

BALD MOUNTAIN FAULT

QUATERNARY Carver, G.A., 1989b Wagner and Saucedo, 1987

34

BIG LAGOON FAULT

QUATERNARY

Kelsey and Carver, 1988 (Fig. 2) Wagner and Saucedo, 1987

TRINIDAD FAULT (OFFSHORE)

LATE QUATERNARY Clarke and Field, 1989 Clarke, S.H., Jr., 1990

36

35

MAD RIVER FAULT ZONE (OFFSHORE)

HOLOCENE Clarke and Field, 1989 Clarke, S.H., Jr., 1990

37

LITTLE SALMON FAULT (OFFSHORE) HOLOCENE Carver and others, 1989 (Holocene age) Clarke and Field, 1989 Clarke, S.H., Jr., 1992 (age, p. 211)

38

TRINIDAD FAULT HOLOCENE Carver, G.A., 1989b

Carver and others, 1982 Coppersmith, K.J., 1980 (Fig. B-1) Rust, D., 1982 Smith, T.C., 1982b SSZ: Trinidad

39

BLUE LAKE FAULT

HOLOCENE Carver, G.A., 1989b Kelsey and Carver, 1988 (p. 4802)

40

MAD RIVER FAULT

HOLOCENE Carver, G.A., 1989b Hart and others, 1983b Kelsey and Carver, 1988 (p. 4802) SSZ: Arcata North

41

BAY ENTRANCE FAULT

LATE QUATERNARY Woodward-Clyde Consultants, 1980 (Fig. C-1 and C-56) Wills, C.J., 1990e Hart and others, 1991

42

FICKLE HILL FAULT HOLOCENE Carver, G.A., 1989b Hart and others, 1983b

Kelsey and Carver, 1988 (p. 4802) SSZ: Arcata South, Arcata North

MCKINLEYVILLE FAULT

HOLOCENE Carver, G.A., 1989b Hart and others, 1983b Kelsey and Carver, 1988 (p. 4802) SSZ: Arcata North, Arcata South, Korbel

44

EATONS ROUGH FAULT ZONE

QUATERNARY

Kelsey and Carver, 1988

45

NORTH SPIT FAULT

QUATERNARY

Earth Sciences Associates, 1976 (p. 10 and 11) Woodward-Clyde Consultants, 1980 (Fig. B-1)

46

EAST TRACE LITTLE SALMON FAULT

LATE QUATERNARY Carver, G.A., 1989a

47

LITTLE SALMON FAULT (AND EAST TRACE) HOLOCENE Carver, G.A., 1989a,b Carver and others, 1989 Clarke and Carver, 1991, (250 years B.P.) Wills, C.J., 1990e Hart and others, 1983b; 1991 Kelsey and Carver, 1988 Woodward-Clyde Consultants, 1980 (Appendix, C43, and Fig. C-1) SSZ: Fields Landing, Fortuna, Hydesville

48

RUSS FAULT ZONE (OFFSHORE)

LATE QUATERNARY

Clarke, S.H., Jr., 1992 (p. 208, late Quaternary?) Clarke and Field, 1989

49

BEAR RIVER FAULT ZONE (OFFSHORE)

QUATERNARY

Clarke and Field, 1989; personal communication 3/12/ 1990.

50

FRESHWATER FAULT

TERTIARY

Carver, G.A., 1989b Ellen and others, 1989

51

YAGER FAULT

HOLOCENE

Carver, G.A., 1989b Hart and others, 1983b; 1991 Wills, C.J., 1990e

52

GOOSE LAKE FAULT

HOLOCENE Carver and others, 1982 Hart and others, 1983b Kelsey and Carver, 1988 (p. 4803) Woodward-Clyde, 1980 SSZ: Hydesville

53

SALT CREEK FAULT

PRE-QUATERNARY Blake, M.C., 1989 (personal communication) Ellen and others, 1989 Fraticelli and others, 1987

54

BEAR WALLOW FAULT

PRE-QUATERNARY Blake, M.C., 1989 (personal communication) Ellen and others, 1989 Fraticelli and others, 1987

55

BATTLE CREEK FAULT

LATE QUATERNARY; QUATERNARY Harwood and Helley, 1987 (p. 23) Helley and others, 1981 U.S. Army Corps of Engineers, 1986 (p. 29)

56

ALMANOR FAULT

QUATERNARY Dudley, T., 1986 Wills, C.J., 1990c

57

UNNAMED FAULT ON SOUTHEAST SIDE OF EAGLE LAKE LATE QUATERNARY

Clark and others, 1984 (100,000 - 240,000 yrs.)

58

UNNAMED FAULT NORTHWEST OF SUSANVILLE

QUATERNARY

Clark and others, 1984 (700,000-1,900,000 yrs.) Grose and others, 1990

59

UNNAMED FAULT AT NORTHWEST CORNER OF HONEY LAKE

HOLOCENE Grose and others, 1990

Roberts, C.T., 1985 Wills, C.J., 1990d (Holocene) Hart and others, 1991

HONEY LAKE FAULT ZONE

HOLOCENE; QUATERNARY Grose and others, 1990 Wills, C.J., 1990d Hart and others, 1991 SSZ: Standish, Stony Ridge, Milford, Herlong, McKesick Peak, Doyle, Constantia.

61

WARM SPRINGS VALLEY FAULT

HOLOCENE Wills, C.J., 1990d Hart and others, 1991 SSZ: Milford, Herlong, Calneva Lake, Doyle

62

FORT SAGE FAULT HISTORIC (1950 earthquake rupture) Gianella, V.P., 1957 Grose and others, 1990 Wills, C.J., 1990d Hart and others, 1991 SSZ: Doyle

63

UNNAMED FAULTS BORDERING LONG VALLEY

QUATERNARY, HOLOCENE in part Saucedo, G.J., 1990 Wills, C.J., 1990 Hart and others, 1991 SSZ: Constantia

64

DIAMOND MOUNTAINS FAULT

QUATERNARY Mergner, 1978, p. 36-38 Saucedo, G.J., 1990

65

UNNAMED FAULT

QUATERNARY Fraser and Nasirian, 1981

66

INDIAN VALLEY FAULT

HOLOCENE? (in part) Dudley, T., 1986 Woodward-Clyde Consultants, 1978

67

MELONES FAULT ZONE OF CLARK (MEADOW VALLEY FAULT) QUATERNARY Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977

68

RICH BAR FAULT AT MEADOW VALLEY (BOTTLE SPRINGS FAULT) QUATERNARY Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977

69 PARADISE FAULT

QUATERNARY? Dudley, T., 1988

70

COHASSET RIDGE FAULT QUATERNARY? Woodward-Clyde Consultants, 1977

71

MAGALIA FAULT QUATERNARY? Dudley, T., 1988

72

CHICO MONOCLINE FAULT

QUATERNARY Harwood and Helley, 1987 (p. 20) Saucedo, G.J., 1990

73

CORNING FAULT

QUATERNARY Blake and others, 1989 Harwood and Helley, 1987 (p. 9, 34)

74

RED BLUFF FAULT PRE-QUATERNARY Harwood and Helley, 1987 (p. 26)

75

WILLOWS FAULT ZONE

PRE-QUATERNARY Harwood and Helley, 1987 (p. 7, 9)

76

COAST RANGE FAULT PRE-QUATERNARY Jayko and others, 1987

77

<u>GROGAN - RED MOUNTAIN FAULT ZONE</u> AGE ?

Blake, M.C., 1989 (personal communication) Ellen and others, 1989

78

LAKE MOUNTAIN FAULT ZONE LATE QUATERNARY

Ellen and others, 1989 Herd, D.G., 1978

79

GARBERVILLE FAULT ZONE

QUATERNARY Ellen and others, 1989

RUSS FAULT ZONE

LATE QUATERNARY, QUATERNARY Carver and others, 1982 (Map p. 97) Ellen and others, 1989 Kelsey and Carver, 1988 (Late Quaternary age near coast, p. 4811) McLaughlin and Ellen, 1989 Ogle, B.A., 1953

81

BEAR RIVER FAULT ZONE

QUATERNARY

McLaughlin and Ellen, 1989

82

PETROLIA THRUST

QUATERNARY McLaughlin and Ellen, 1989

83

MENDOCINO FAULT ZONE (OFFSHORE)

HOLOCENE? LATE QUATERNARY Clarke and Field, 1989 Clarke, S.H., Jr., 1990

84

FAULT ALONG MATTOLE CANYON (OFFSHORE)

LATE QUATERNARY?

Clarke, S., Jr., 1990 and 1992 (Figure 2). McLaughlin, R.J. (personal communication, 1989 –possible extension of King Range thrust)

85

KING RANGE THRUST ZONE

QUATERNARY

McLaughlin and Ellen, 1989

86

BRICELAND FAULT

QUATERNARY Ellen and others, 1989

87

SAN ANDREAS FAULT? (AT SHELTER COVE)

HISTORIC (1906 earthquake ruptures?) Brown and Wolfe, 1972 Lawson and others, 1908 McLaughlin and others, 1983 (landslides ? p. 37) McLaughlin and others, 1985 (mineralization in fault, Miocene age, p. 344, 358) SSZ: SE 1/4 Point Delgada

88

WHALE GULCH FAULT

LATE QUATERNARY McLaughlin and Ellen, 1989

89

BEAR HARBOR FAULT ZONE

LATE QUATERNARY Beutner and others, 1980

90

ROUND VALLEY FAULT (NORTHERN COAST RANGES)

QUATERNARY Jayko and others, 1989

91

ETSEL RIDGE FAULT

QUATERNARY ? Jayko and others, 1989

91A

COTTONEVA FAULT PRE-QUATERNARY

O'Day, M.S., 1974

91B

UNNAMED FAULT BY FORT BRAGG

PRE-QUATERNARY Kramer, J.C., 1976

91C

CHAMBERLAIN FAULT PRE-QUATERNARY Kramer, J.C., 1976

92

BARTLETT SPRINGS FAULT HOLOCENE; QUATERNARY

McLaughlin and others, 1985 (age, p. 14) Taylor and Swan, 1986

93

STONY CREEK FAULT

LATE QUATERNARY Earth Science Associates, 1980 Steele, W.C., 1979 94

UNNAMED FAULTS IN SUTTER BUTTES

QUATERNARY

Saucedo, G.J., 1990

95

CLEVELAND HILL FAULT

HISTORIC (1975 earthquake ground rupture); QUATERNARY Akers and McQuilkin, 1975 Clark and others, 1976 Hart and Rapp, 1975 Saucedo, G.J., 1990 SSZ: Bangor

96

SWAIN RAVINE FAULT (ORANGE ROAD SITE)

LATE QUATERNARY Bryant, W.A., 1983b Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977

MOHAWK VALLEY AREA

1875 earthquake faults of Turner, 1897, not verified. Smith, T.C., 1983b (p. 9)

98

MOHAWK VALLEY FAULT

LATE QUATERNARY Hawkins and others, 1986 (p. 60-63) Saucedo, G.J., 1990

99

UNNAMED FAULT (?) EFFECTS OF 1966 TRUCKEE EARTHQUAKE

HISTORIC (1966 earthquake ground breakage) Carter, B.H., 1966 Kachadoorian and others, 1967

100

UNNAMED FAULTS SOUTH AND EAST OF TRUCKEE

LATE QUATERNARY Latham, T.S., Jr., 1985

Saucedo, G.J., 1990

101

UNNAMED FAULTS NORTH SIDE LAKE TAHOE QUATERNARY

Saucedo, G.J., 1990

102

NORTH TAHOE FAULT

HOLOCENE

Hyne and others, 1972 (p. 1440) Hawkins and others, 1986 (p. 56) Saucedo, G.J., 1990

103

MELONES FAULT ZONE OF CLARK (GIANT GAP FAULT)

QUATERNARY ?

Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977

104

BEAR MOUNTAINS FAULT ZONE (HIGHWAY 49 LINEAMENT)

LATE QUATERNARY Borchardt and others, 1980 (p. 18-21: Smith property site) Bryant, W.A., 1983a Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977, 1978

105

SPENCEVILLE FAULT

LATE QUATERNARY; HOLOCENE? Borchardt and others, 1980 Bryant, W.A., 1983b Saucedo, G.J., 1990 Woodward-Clyde Consultants, 1977

106

RESORT FAULT ZONE

QUATERNARY McLaughlin and others, 1985 (p. 15-16)

107

BAD RIDGE FAULT

QUATERNARY (Possibly late Pleistocene) McLaughlin and others, 1985 (p. 16)

108

LITTLE INDIAN VALLEY FAULT

QUATERNARY McLaughlin and others, 1985 (p. 15)

109

<u>CROSS SPRING FAULT</u> QUATERNARY (in part) McLaughlin and others, 1985

110

CLOVER VALLEY FAULT ZONE

QUATERNARY

Hearn and others, 1988 (Fig. 2) Sims and Rymer, 1976

111

FAULTS IN KONOCTI BAY AREA

HOLOCENE; LATE QUATERNARY Bortugno, E.J., 1982 Bryant, W.A., 1982c Hart and others, 1983b SSZ: CLearlake Highlands, Kelseyville

112

BIG VALLEY FAULT LATE QUATERNARY; HISTORIC (1906 earthquake ruptures) Bryant, W.A., 1982c Clark and others, 1984 Hearn and others, 1981 Hearn and others, 1988 (p. 15) SSZ: Kelseyville

113

ADOBE CREEK FAULT

LATE QUATERNARY Clark and others, 1984 (120,000-450,000 yrs.) Hearn and others, 1988

114

MAACAMA FAULT ZONE (NORTHERN AND CENTRAL PARTS) HOLOCENE Hart and others, 1983 Pampeyan and others, 1981 Smith, T.C., 1981a Smith, T.C., 1981b Smith, T.C., 1981c Smith, T.C., 1982a Upp, R.R., 1989 SSZ: Hopland, Purdys Gardens, Elledge Peak, Ukiah, Redwood Valley, Willits NE, SE, and SW, Longvale, Laytonville

114A

TWO ROCK FAULT PRE-QUATERNARY Kramer, J.C., 1976 Kilbourne, R.T., 1984

115

UNNAMED FAULTS

PRE-TERTIARY Manson, M.W., 1984

116

SPLAYS OFF SAN ANDREAS FAULT

LATE QUATERNARY Pacific Gas & Electric, 1971. Prentice, C.S., 1989 and personal communication (letter of 9/17/89)

117

NAVARRO STRUCTURAL DISCONTINUITY (OFFSHORE)

AGE?

Clarke and Field, 1989 (Discontinuity separating differing Neogene structural domains. May indicate discontinuities between basement rocks.)

118

HATHAWAY CREEK FAULT (AND UNNAMED FAULT TO WEST)

LATE PLEISTOCENE

Prentice, C.S., 1989 (p. 110) also personal communication 9/17/89.

119

SAN ANDREAS FAULT ZONE (FORT ROSS TO MANCHESTER)

HISTORIC (1906 earthquake rupture); LATE QUATERNARY Brown and Wolfe, 1972 Hart, E.W. (see SSZ maps listed below) Prentice, C.S., 1989 SSZ: Arched Rock, Fort Ross, Plantation, Annapolis, Stewarts Point, SW 1/4 Ornbaun Valley, Gualala, NE 1/ 4 Point Arena, Point Arena, Mallo Pass Creek

120

COLLAYOMI FAULT

LATE QUATERNARY Bortugno, E.J., 1982 Bryant, W.A., 1982c (p. 15, Figs. 2b, 2c, 2d) Hart and others, 1983b McLaughlin, R.J., 1978

121

HUNTING FAULT QUATERNARY Bortugno, E.J., 1982 Lawton, J.E., 1956

122 HUNTING CREEK FAULT HOLOCENE Bryant, W.A., 1982b Hart and others, 1983b SSZ: Jericho Valley, Knoxville

123

CAPAY FAULT PRE-QUATERNARY? Harwood and Helley, 1987 (p. 29)

124

DUNNIGAN HILLS (ZAMORA) FAULT AND

ADJACENT AREA

HOLOCENE ? Bryant, W.A., 1982 (questions Holocene age) Helley and Herd, 1977 Harwood and Helley, 1987 (p. 29)

125

DEWITT FAULT LATE QUATERNARY

Borchardt and others, 1980 Bryant, W.A., 1983b Woodward-Clyde Consultants, 1977

126

BEAR MOUNTAINS FAULT ZONE (MAIDU EAST LINEAMENT)

LATE QUATERNARY? Bryant, W.A., 1983a Woodward-Clyde Consultants, 1977, 1978 Borchardt and others, 1980

127

BEAR MOUNTAINS FAULT ZONE (RESCUE LINEAMENT) LATE QUATERNARY

Bryant, W.A., 1983d Woodward-Clyde Consultants, 1977, 1978

128

<u>GENOA FAULT</u> (<u>ALSO CALLED CARSON VALLEY FAULT</u>) HOLOCENE Armin and John, 1983 Dohrenwend, J.C., 1982 Smith, T.C., 1984a SSZ: Markleeville, Woodfords, Minden

129

UNNAMED FAULT LATE QUATERNARY and/or HOLOCENE Dohrenwend, J.C., 1982

129A

UNNAMED FAULT

QUATERNARY; PRE-QUATERNARY Dohrenwend, J.C., 1982 Stewart and others, 1982

ANTELOPE VALLEY FAULT AND ADJACENT

FAULTS

HOLOCENE Bryant, W.A., 1984a Hayes, G.F., 1985 (p. 66-68) SSZ: NE 1/4 and SE 1/4 Topaz Lake, SW 1/4 Desert Creek Peak

131

SLINKARD VALLEY FAULT LATE QUATERNARY

Bryant, W.A., 1983c Dohrenwend, J.C., 1982 Hayes, G.F., 1985 (p. 69)

131A

UNNAMED FAULTS

PRE-QUATERNARY Stewart and others, 1982

132

WEST WALKER RIVER FAULT

HOLOCENE; LATE QUATERNARY Bryant, W.A., 1983c Dohrenwend, J.C., 1982 Hayes, G.F., 1985 SSZ: Fales Hot Springs

133

MONO LAKE FAULT ROBINSON CREEK FAULT (IN PART BRIDGEPORT BASIN FAULT OF M. CLARK) UNNAMED FAULTS HOLOCENE; LATE QUATERNARY; QUATERNARY Bryant, W.A., 1984b Bryant, W.A., 1984d Clark and others, 1984 (10,000 - 13,000 yrs.) Dohrenwend, J.C., 1982 Hayes, G.F., 1985 (p. 88-90) SSZ: SW 1/4 and NE 1/4 Mono Craters, SW 1/4 and NW 1/4 Bodie, NE 1/4 Matterhorn Peak, SW 1/4 Bridgeport, Fales Hot Springs, SE 1/4 Fales Hot Springs

134

UNNAMED FAULTS

QUATERNARY

Dohrenwend, J.C., 1982

135

MELONES FAULT ZONE (POORMAN GULCH FAULT)

LATE QUATERNARY; HOLOCENE? Bryant, W.A., 1983a (Fig. 3) Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

136

BEAR MOUNTAINS FAULT ZONE (YOUNGS CREEK FAULT) OUATERNARY Bryant, W.A., 1983d (Fig. 3)

Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

137 MIDLAND FAULT ZONE

EARLY CENOZOIC Hart and others, 1983b Harwood and Helley, 1987 (Plate 1)

138

EAST VALLEY FAULT

PRE-QUATERNARY Harwood and Helley, 1987 (p. 27)

139

WEST VALLEY FAULT

PRE-QUATERNARY Harwood and Helley, 1987 (p. 27, 29)

140

UNNAMED FAULTS EAST OF LAKE BERRYESSA

QUATERNARY? Bortungo 1982 Hart and others, 1983b Helley and Herd, 1977

141

MAACAMA FAULT ZONE (SOUTHERN PART)

HOLOCENE Bortugno, E.J., 1982 Bryant, W.A., 1982a Hart and others, 1983b McLaughlin, R.J., 1978 SSZ: Mark West Springs, Mount St. Helena, Jimtown, Geyserville, Asti

142

HEALDSBURG FAULT HOLOCENE; QUATERNARY Bortugno, E.J., 1982 Bryant, W.A., 1982a SSZ: Healdsburg

143

UNNAMED FAULT AT SANTA ROSA RESERVOIR LATE QUATERNARY Borlugno 1982 Herd and Helley, 1977

144

UNNAMED FAULTS NORTHWEST OF SANTA ROSA NEAR TRENTON

LATE QUATERNARY Bortugno, 1982 Herd and Helley, 1977

145

SAN ANDREAS FAULT ZONE (OFFSHORE)

Bortugno, E.J., 1982 McCulloch, 1989

UNNAMED FAULTS AT MOUTH OF AMERICANO CREEK NEAR BODEGA BAY

HISTORIC (1906 earthquake ground rupture) Herd and Helley, 1977

147

SAN ANDREAS FAULT ZONE (BODEGA HEAD TO BOLINAS)

HISTORIC (1906 earthquake rupture); HOLOCENE Brown and Wolfe, 1972 Hart, E.W. (see SSZ maps listed below) SSZ: Duncans Mills, Bodega Head, Valley Ford, Tomales, Drakes Bay, Point Reyes NE, Inverness, Double Point, Bolinas

148

POINT REYES FAULT (OFFSHORE)

QUATERNARY Bortugno, E.J., 1982 McCulloch and Greene, 1990

149

RODGERS CREEK FAULT

HOLOCENE Bortugno, E.J., 1982 Hart, E.W., 1982 SSZ: Sears Point, Petaluma River, Glen Ellen, Cotati, Santa Rosa, Mark West Springs, Healdsburg

150

TOLAY FAULT

QUATERNARY? Hart and others, 1981 Lawton and others, 1977

151

UNNAMED FAULT WEST OF CARNEROS CREEK

QUATERNARY Bortugno, E. J., 1982 Hart and others, 1983b Helley and Herd, 1977

152

WEST NAPA FAULT

HOLOCENE in southern part; LATE QUATERNARY in northern part Bortugno, E.J., 1982 Hart and others, 1983b Helley and Herd, 1977 SSZ: Cuttings Wharf, Cordelia

153

SODA CREEK FAULT

LATE QUATERNARY Bortugno, E.J., 1982 Hart and others, 1983b

154 GREEN VALLEY FAULT

GREEN VALLET FAULT

HOLOCENE; creep Bortugno, E.J., 1982 Galehouse, J.S., 1989 (creep) Hart and others, 1983b SSZ: Mt. George, Cordelia, Fairfield South, Port Chicago

155

CORDELIA FAULT

HOLOCENE in southern part; LATE QUATERNARY in northern part Bortugno, E.J., 1982 Bryant, W.A., 1981a Hart and others, 1983b SSZ: Cordelia

156

VACA FAULT KIRBY HILL FAULT

MONTEZUMA HILLS FAULT

LATE QUATERNARY? Clark, and others, 1984 (10,000-120,000 yrs.) Hart and others, 1983b

157

RIO VISTA FAULT QUATERNARY? Bryant, W.A., 1982d Hart and others, 1983b Shlemon and Begg, 1975

158

UNNAMED FAULT EAST OF ANTIOCH FAULT

QUATERNARY Bortugno and others, 1991

159

ANTIOCH FAULT

QUATERNARY Bortugno and others, 1991 Wills, C.J., 1991 Burke and Helley, 1973 Helley and Herd, 1977 SSZ: Antioch North, Antioch South

160

CONCORD FAULT

HISTORIC (active creep); LATE QUATERNARY Bortugno and others, 1991 Galehouse, J.S., 1989 (creep) Helley and Herd, 1977 Sharp, R.V., 1973 Sims and others, 1973 SSZ: Port Chicago, Walnut Creek, Clayton

161

PINOLE FAULT PRE-QUATERNARY Bedrossian, T.L., 1980 Bortugno and others, 1991

Hart and others, 1981

SAN ANDREAS FAULT (BOUNDARY FAULTS)

LATE QUATERNARY Bortugno and others, 1991 Wagner, D.L., 1977 SSZ: Bolinas

163

HAYWARD FAULT (NORTHERN PART)

HISTORIC (1836, 1868 earthquake ruptures; creep); HOLOCENE Bonilla, M.G., 1970 Bortugno and others, 1991 Hart and others, 1981 Louderback, G.D., 1947 Lienkaemper and Borchardt, 1990 (creep) SSZ: Mare Island, Richmond, Oakland East, Oakland West, San Leandro, Hayward, Newark, Niles, Milpitas

164

SHERBURNE HILLS FAULT

QUATERNARY

Bortugno and others, 1991 Hart and others, 1981

165

MARSH CREEK FAULT AND CLAYTON FAULT QUATERNARY; LATE QUATERNARY Bortugno and others, 1991

166

MIDWAY FAULT

LATE QUATERNARY Clark and others, 1984 (100,000-600,000 yrs.)

167

VERNALIS FAULT QUATERNARY?

Bartow, J.A., 1991 (p. 8)

168

BEAR MOUNTAINS FAULT ZONE (BOWIE FLAT FAULT) LATE QUATERNARY

Bryant, W.A., 1983d (Fig. 3) Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

169

MELONES FAULT ZONE (RAWHIDE FLAT EAST FAULT)

LATE QUATERNARY; HOLOCENE? Bryant, W.A., 1983a (Fig. 3)

Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

170

MELONES FAULT ZONE (RAWHIDE FLAT WEST FAULT)

LATE QUATERNARY Bryant, W.A., 1983a (Fig. 3) Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

171

BEAR MOUNTAINS FAULT ZONE (NEGRO JACK POINT FAULT)

LATE QUATERNARY

Bryant, W.A., 1983d (Fig. 3) Woodward-Clyde Consultants, 1977, 1978 (Fig. C.4-2)

172

BLACK BUTTE FAULT

QUATERNARY Bartow, J.A., 1991 (p. 8) Bortugno and others, 1991

173

CORRAL HOLLOW FAULT

Bortugno and others, 1991

174

<u>GREENVILLE FAULT</u> LATE QUATERNARY and HISTORIC (1980 earthquake rupture) Bolt and others, 1981 Bortugno and others, 1991 Hart, E.W., 1981b

SSZ: Tassajara, Byron Hot Springs, Altamont, Midway, Cedar Mtn., Eylar Mountain

175

LIVERMORE FAULT

QUATERNARY Carpenter and others, 1984

176

PLEASANTON FAULT

HOLOCENE Hart, E.W., 1981a Herd, D.G., 1978 SSZ: Dublin

177

CALAVERAS FAULT (NORTHERN PART)

HISTORIC (1861); HOLOCENE; LATE QUATERNARY Radbruch, D.H., 1968 Bortugno and others, 1991 Brewer, W.H., 1930 (1861 ground cracks, p. 185) Hart, E.W., 1981a Hart and others, 1981 Herd, D.G., 1978 SSZ: Dublin, Diablo, La Costa Valley, Calaveras Reservoir, Lick Observatory

178

EXTENSION OF SAN BRUNO FAULT

No evidence of QUATERNARY AGE Pampeyan, E.H., 1989; letter of 8/7/1989.

179

SERRA FAULT ZONE

Bortugno and others, 1991 Brabb and Olson, 1986 Hart and others, 1981

STRUCTURAL DISCONTINUITIES (OFFSHORE)

AGE?

McCulloch and Greene, 1990 (Discontinuities separating differing Neogene structural domains. May indicate discontinuities between basement rocks)

181

SEAL COVE FAULT

HOLOCENE; LATE QUATERNARY; creep Bortugno and others, 1991 Brabb and Olson, 1986 (creep) Galehouse, J.S., 1989 (creep) Hart and others, 1981 SSZ: Montara Mountain, Half Moon Bay

182

MISSION FAULT

QUATERNARY Bortugno and others, 1991 Bryant, W.A., 1980

183

VERONA FAULT

HOLOCENE? Bortugno and others, 1991 Hart and others, 1981 Herd and Brabb, 1980 Smith, D.P., 1981 SSZ: La Costa Valley

184

LAS POSITAS FAULT

HOLOCENE, LATE QUATERNARY; possible 1980 and 1981 ruptures Bortugno and others, 1991 Hart and others, 1981 Herd, D.G., 1977 SSZ: Altamont

185

WILLIAMS FAULT

LATE QUATERNARY? Bortugno and others, 1991 Hart and others, 1981 Smith, D.P., 1981

186

SECONDARY CRACK (?) ADJACENT HAYWARD FAULT

1868 earthquake cracks? Bonilla, M.G., 1970 Lawson and others, 1908 Radbruch, D.H., 1974

187

CALAVERAS FAULT (CENTRAL PART)

HOLOCENE; HISTORIC (minor 1979 fault break at Anderson Lake and south of Coyote Reservoir), 1984 Armstrong, C.F., 1979 Bortugno and others, 1991 Bryant and others, 1981 Hart and others, 1981 Lee and others, 1979 SSZ: Calaveras Reservoir, Mt. Day, San Jose East, Lick Observatory, Mt. Sizar, Morgan Hill, Gilroy, Gilroy Hot Springs, Hollister, Tres Pinos, Pacines, Cherry Peak, San Felipe

188

CROSLEY FAULT

HOLOCENE (in part) Bortugno and others, 1991 Hart and others, 1981 SSZ: Calaveras Reservoir

189

CONCEALED FAULTS IN SOUTH S.F. BAY AREA

QUATERNARY; LATE QUATERNARY Bortugno and others, 1991 California Department Water Resources, 1967 Pampeyan, E.H., 1979

190

MONTA VISTA FAULT

LATE QUATERNARY Bortugno and others, 1991 Brabb and Olson, 1986 Hart and others, 1981 Sorg and McLaughlin, 1977

191

PILARCITOS FAULT

Bortugno and others, 1991 Brabb and Olson, 1986

192

FRIJOLES FAULT

HOLOCENE; LATE QUATERNARY Bortugno and others, 1991 Brabb and Olson, 1986 Clark and others, 1984 (8,400-200,000 YRS.) Hart and others, 1981 Weber and Lajoie, 1979 Weber and Lajoie, 1980

193

BUTANO FAULT

QUATERNARY ? Bortugno and others, 1991 Brabb and Olson, 1986

SAN ANDREAS FAULT ZONE (SAN FRANCISCO TO WATSONVILLE) HISTORIC (1906, 1838 earthquake ruptures); HOLOCENE Louderback, G.D., 1947 Bonilla, M.G., 1970 SSZ: San Francisco South, Montara Mountain, San

Mateo, Half Moon Bay, Woodside, Palo Alto, Mandego Hill, Cupertino, Castle Rock Ridge, Los Gatos, Laurel, Loma Prieta, Mt. Madonna, Watsonville East, Chittenden

195

BERROCAL FAULT

QUATERNARY; LATE QUATERNARY in part Bortugno and others, 1991 Hart and others, 1981 Sorg and McLaughlin, 1975, 1977, 1980

196

HAYWARD FAULT (SOUTHERN PART)

HOLOCENE

Bortugno and others, 1991 Hart and others, 1981 SSZ: Calaveras Reservoir, Milpitas, San Jose East, Lick Observatory

197

EVERGREEN FAULT

HOLOCENE Bortugno and others, 1991 Hart and others, 1981 SSZ: San Jose East

198

SILVER CREEK FAULT

QUATERNARY Bortugno and others, 1991

Hart and others, 1981

199

HAYWARD FAULT (SOUTHEAST EXTENSION)

HOLOCENE

Bortugno and others, 1991 Hart and others, 1981 SSZ: Calaveras Reservoir, San Jose East, Lick Observatory

200

SAN JOAQUIN FAULT

LATE QUATERNARY

Bartow, J.A., 1991 (p. 8-9) Clark and others, 1984 (100,000-600,000 yrs.) Herd, D.G., 1979 Lettis, W.R., 1985 (p. 97, 107, 108) Lettis, W.R., 1988 (p. 343)

201

HARTLEY SPRINGS FAULT. SILVER LAKE FAULT (PARKER LAKE FAULT), UNNAMED FAULTS HOLOCENE; LATE QUATERNARY; QUATERNARY Bryant, W.A., 1984f SSZ: NE 1/4 Devils Post Pile, SE 1/4 Mono Craters 202

HILTON CREEK FAULT. UNNAMED FAULTS HISTORIC (1980); HOLOCENE; QUATERNARY Bailey and Koeppen, 1977 Bryant, W.A., 1981b Clark and others, 1982 Clark and others, 1984 (10,000-20,000 yrs.) Sherburne, R.W., 1980 Taylor and Bryant, 1980 SSZ: NE 1/4, NW 1/4, and SE 1/4 Mt. Morrison

203

FAULTS EAST OF LAKE CROWLEY

LATE QUATERNARY; HOLOCENE? Bryant, W.A., 1984e

204

WHITE MOUNTAINS FAULT ZONE (NORTHERN PART), BENTON VALLEY FAULT

HOLOCENE Hart, E.W., 1984a Smith, T.C., 1984b SSZ: Montgomery Peak SW and NW

205

EARTHQUAKE FAULT FRACTURES (IN CHALFANT VALLEY)

HISTORIC (1986 earthquake) Lienkaemper and others 1987 de Polo and Ramelli, 1987

206

FAULTS IN THE VOLCANIC TABLELAND, MONO AND INYO COUNTIES

HOLOCENE

Bateman, P.C., 1965 Bryant, W.A., 1984e Crowder and Sheridan, 1972 SSZ: Rovanna, SW 1/4 and NW 1/4 Bishop, White Mtn. SW

207

ROUND VALLEY FAULT (NW OF BISHOP) HOLOCENE Bateman, 1965 Bryant, W.A., 1984c Bryant, W.A., 1984i Rinehart and Ross, 1957 SSZ: Mount Tom, Mt. Morgan, SW 1/4 Casa Diablo Mtn.

FISH SLOUGH FAULT

HOLOCENE

Bryant, W.A., 1984c Bryant, W.A., 1984g Crowder and Sheridan, 1972 SSZ: NW 1/4 Bishop, White Mtn. SW

209

WHITE MOUNTAINS FAULT ZONE (SOUTHERN PART)

HOLOCENE Bryant, W.A., 1984c Bryant, W.A., 1988c Hart and others, 1989 SSZ: White Mtn. SE, NE 1/4 and SE 1/4 Bishop, NE 1/ 4 Big Pine, Tinemaha Reservoir, Uhlmeyer Spring, Fish Springs.

210

DEEP SPRINGS FAULT

HOLOCENE-LATE QUATERNARY Bryant, W.A., 1988a, 1989a Hart and others, 1989 SSZ: Chocolate Mountain, Deep Springs Lake, Soldier Pass

211

NORTHERN DEATH VALLEY - FURNACE CREEK FAULT ZONE

HOLOCENE-LATE QUATERNARY Bryant, W.A., 1988b Hart and others, 1989 SSZ: Dyer, Station Peak, Indian Garden Creek, Chocolate Mtn., Sylvania Canyon, Horse Thief Canyon, Last Chance Mtn., Tule Canyon, Ubehebe Crater, Scottys Castle, East of Tin Mountain, Dry Bone Canyon, Fall Canyon, Mesquite Flat, Stovepipe Wells NE, Grotto Canyon, Beatty Junction

212

OWENS VALLEY FAULT

HOLOCENE; HISTORIC (1872 earthquake ground rupture). Beanland and Clark, 1990 Bryant, W.A., 1984c Bryant, W.A., 1984g Bryant, W.A., 1984h Hobbs, W.H., 1910 Knopf, A., 1918 Lubetkin and Clark, 1988 Martel, S.J., 1989 Nelson, C.A., 1966 Ross, D.C., 1965 Hart and others, 1989 SSZ: Fish Springs, Tinemaha Reservoir, Blackrock, Independence, Bee Springs Canyon, Manzanar, Union Wash, Lone Pine, Bartlett and Olancha

212A

LONE PINE FAULT

HISTORIC (1872 earthquake); LATE QUATERNARY Lubetkin and Clark, 1988

213 KINGS CANYON LINEAMENT

AGE?

Antonnen and others, 1974 (Satellite imagery lineament) Bartow, J.A., 1991 (p. 5-6)

214

ORTIGALITA FAULT

HOLOCENE Anderson and others, 1982 Clark and others, 1984 (5,000-15,000 yrs.) Hart, E.W., 1985 Lettis, W.A., 1985 (p. 97) Manson, M.W., 1985 SSZ: Mustang Peak, Crevison Peak, Pacheco Pass, San Luis Dam, Los Banos Valley, Ortigalita Peak, Ortigalita Peak NW

215

COYOTE CREEK FAULT

QUATERNARY Bortugno and others, 1991 Hart and others, 1981

216

SHANNON FAULT

QUATERNARY Bortugno and others, 1991 Hart and others, 1981 McLaughlin, R.J., 1989

217

GROUND "FRACTURES" ASSOCIATED WITH LOMA PRIETA EARTHQUAKE

HISTORIC (17 October 1989) Plafker and Galloway, 1989 U.S. Geological Survey Staff, 1989 Bryant, W.A., 1991 SSZ: Los Gatos, Laurel

218

SAN GREGORIO FAULT

HOLOCENE Bortugno and others, 1991 Brabb and Olson, 1986 Galehouse, J.S., 1989 (creep) Hart and others, 1981 McCullough and Greene, 1990 (offshore) SSZ: Ano Nuevo, Franklin Point

219

ASCENCION FAULT (OFFSHORE)

QUATERNARY McCulloch and Greene, 1990

220 7VANTE E

ZYANTE FAULT

HOLOCENE; LATE QUATERNARY; QUATERNARY Bortugno and others, 1991 Buchanan-Banks and others, 1978 Clark and others, 1984 (5,000-15,000 and 75,000-115,000 yrs.) Hart and others, 1981 Pampeyan, E.H., 1979 SSZ: Watsonville East, Watsonville West

221

BEN LOMOND FAULT

LATE QUATERNARY at southern end Stanley and McCaffrey, 1983

222

SARGENT FAULT

HOLOCENE Bortugno and others, 1991 Bryant and others, 1981 Buchanan-Banks and others, 1978

Hart and others, 1981 Sorg and McLaughlin, 1975 SSZ: Watsonville East, Chittenden, San Felipe

223

TRIGGERED SLIP ON CALAVERAS FAULT HISTORIC (17 October 1989) McClellan and Hay, 1989

224

CALAVERAS FAULT (SOUTHERN PART) HISTORIC (creep); HOLOCENE; LATE QUATERNARY Rogers, T.H., 1980 SSZ: Hollister, San Felipe

225

QUIEN SABE FAULT HOLOCENE; LATE QUATERNARY Hart and others, 1986

Dibblee and Rogers, 1975 SSZ: Three Sisters

226

O'NEILL FAULT SYSTEM

LATE QUATERNARY Bartow, J.A., 1991 (p. 9) Bortugno and others, 1991 Clark and others, 1984 (100,000-600,000 yrs.) Lettis, W.R., 1982 Lettis, W.R., 1985 (p. 97, 107, 108)

227

PAICINES FAULT

HOLOCENE; LATE QUATERNARY Hart and others, 1986

228

VERGELES FAULT

LATE QUATERNARY; HOLOCENE Buchanan-Banks and others, 1978 Clark and others, 1984 (75,000-115,000 yrs.)

229

MONTEREY BAY FAULT ZONE (OFFSHORE)

HOLOCENE; QUATERNARY McCulloch and Greene, 1990

230

PALO COLORADO FAULT (OFFSHORE AND ONSHORE) QUATERNARY ? Bryant, W.A., 1985a Hart, E.W., 1989 McCulloch and Greene, 1990 (offshore)

231

CYPRESS POINT FAULT

QUATERNARY? (Offsets Quaternary deposits offshore) Clark and others, 1974

232

NAVY FAULT

QUATERNARY Clark and others, 1974 Hart and others, 1986

233

ORD TERRACE FAULT

QUATERNARY? Clark and others, 1974 Hart and others, 1986

234

SAN ANDREAS FAULT ZONE (SAN JUAN BAUTISTA TO PRIEST VALLEY)

HISTORIC (1906, 1890 earthquake ruptures) Holden, E.S., 1898 Lawson and others, 1908 SSZ: San Juan Bautista, Hollister, Paicines, Cherry Peak, Bickmore Canyon, San Benito, Topo Valley, Rock Spring Peak, Lonoak, Hepsedam Peak, Monarch Peak, Priest Valley

235

CHUPINES FAULT

QUATERNARY Clark and others, 1974 Hart and others, 1986

236

<u>TULARCITOS FAULT</u> QUATERNARY; LATE QUATERNARY (in part) Hart and others, 1986

237

SUR FAULT QUATERNARY Hart and others, 1986 Bryant, W.A., 1985a

238

PALEO-SUBDUCTION ZONE (OFFSHORE)

AGE? McCulloch and Greene, 1990

RINCONADA FAULT (NORTHERN PART)

LATE QUATERNARY Dibblee, T.W., Jr., 1976 (p. 36, 52, 53, late Quaternary) Greene and others, 1973 Hart and others, 1986 (Table 1 and Plate 1 - Espinosa and San Marcos segments) Tinsley, J.C. III, 1975 (age of faulting p. 149-155.)

240

SAN ANDREAS FAULT

HOLOCENE; HISTORIC (creep) Rymer, M.J., 1981 Rymer and others, 1984 (low creep rates)

241

NUNEZ FAULT

HISTORIC, 1983 earthquake break Hart, E.W., 1984b Hart and McJunkin, 1983a Rymer and others, 1990 SSZ: Alcalde Hills

242

CLOVIS FAULT

PRE-QUATERNARY de Palo, C.M., 1983, p. 2-4 Page and LeBlanc, 1969

243

INDEPENDENCE FAULT

LATE QUATERNARY; HOLOCENE Bryant, W.A., 1989b Clark and others, 1984 (10,500-18,000 yrs.) Hart and others, 1989 SSZ: Kearsarge Peak, Mt. Williamson, Manzanar, Mt. Langley, Lone Pine

244

HUNTER MOUNTAIN FAULT HOLOCENE-LATE QUATERNARY

Burchfiel and others, 1987 Zellmer, J.T., 1980

244A

KEANE WONDER FAULT

QUATERNARY

Reheis and Noller, 1991

245

TOWNE PASS FAULT

HOLOCENE-LATE QUATERNARY Bryant, W.A., 1989c Hart and others, 1989 SSZ: Panamint Butte, Nova Canyon

246

ASH HILL FAULT HOLOCENE; LATE QUATERNARY Bryant, W.A., 1989c Hart and others, 1989 SSZ: Panamint Springs, Revenue Canyon, Maturango Peak NE and SE

247 PANAMINT VALLEY FAULT

HOLOCENE; LATE QUATERNARY; QUATERNARY Bryant, W.A., 1989c Clark and others, 1984 (8,000-20,000 yrs.) Hsu and Wagner, 1990 Smith, R.S.U., 1979 Hart and others, 1989 SSZ: The Dunes, Panamint Butte, Nova Canyon, Maturango Peak NE, Jail Canyon, Ballarat, Manly Fall, Copper Queen Canyon, Sourdough Spring, Wingate Pass.

248

DEATH VALLEY FAULT ZONE

HOLOCENE; LATE QUATERNARY Wills, C.J., 1989a Hart and others, 1989 SSZ: Furnace Creek, Devils Golf Course, Badwater, Dantes View Hanaupah Canyon, Gold Valley, Mormon Point, Shore Line Butte, Confidence Hills West, Confidence Hills East, East of Owls Lake, Old Ibex Pass.

249

SIERRA NEVADA FAULT ZONE (HAIWEE RESERVOIR AREA)

HOLOCENE; LATE QUATERNARY Wills, C.J., 1989b

250

AIRPORT LAKE FAULT ZONE

HOLOCENE-LATE PLEISTOCENE Roquemore, G.R., 1981 Wills, C.J., 1988a, 1989c Hart and others, 1989 SSZ: Cactus Peak, Volcano Peak, Pearsonville, White Hills

251

FAULT WEST OF COSO JUNCTION IN SIERRA NEVADA PRE-TERTIARY Duffield, W.A., 1975 Duffield and Bacon, 1981 Hsu and Wagner, 1990

252

KERN CANYON FAULT

PRE-QUATERNARY (Undisturbed 3.5 Ma volcanic flow across fault).

Ross, D.C., 1986 (p. 20); right lateral faulting (p. 20).

253

GOLD HILL THRUST FAULT PRE-QUATERNARY Sims, 1988, 1990

254

SOUTHWEST FRACTURE ZONE OF SAN ANDREAS FAULT

HISTORIC (1966 San Andreas fault earthquake) Sims, J.D., 1988, 1990 Sims and others, 1988

SAN SIMEON FAULT

HOLOCENE

Buchanan-Banks, 1978 Hall and others, 1979 Hart and others, 1986 SSZ: San Simeon, Piedras Blancas, Burro Mountain

256

ARROYO LAGUNA FAULT

LATE QUATERNARY

Buchanan-Banks and others, 1978 Hall and others, 1979

257

STRUCTURAL DISCONTINUITY (OFFSHORE) AGE?

McCulloch, D.S., 1989 (Discontinuity separating differing Neogene structural domains. May indicate discontinuities between basement rocks)

258

ARROYO DEL OSO FAULT

LATE QUATERNARY Buchanan-Banks and others, 1978 Hall and others, 1979 Pacific Gas and Electric Company, 1988

259

OCEANIC FAULT

LATE QUATERNARY Buchanan-Banks and others, 1978 Hall and others, 1979

260

WHITE CANYON FAULT

HOLOCENE

Sims, J.D., 1988 Sims and others, 1988

261

RED HILLS FAULT

HOLOCENE

Sims and others, 1988 (and personal communication 4/ 1990).

262

GILLIS CANYON FAULT

HOLOCENE

Sims and others, 1988 (and personal communication 4/ 1990).

263

POND FAULT

HISTORIC, with creep caused by groundwater withdrawal Holzer, T.L., 1980 Smith, T.C., 1983c SSZ: Pond

264 KERN FRONT FAULT

NEW HOPE FAULT

PREMIER FAULT

HISTORIC, actively creeping fault triggered by fluid withdrawal Castle and others, 1984 Hart and others, 1984 Smith, T.C., 1983a SSZ: Oildale, North of Oildale

265

KERN GORGE FAULT LATE QUATERNARY

Hart and others, 1984

266

SIERRA NEVADA FAULT (INYOKERN AREA) HOLOCENE; LATE QUATERNARY

Hsu and Wagner, 1990 Roquemore, G.R., 1981 Wills, C.J., 1988a Hart and others, 1989 SSZ: Inyokern

267

LITTLE LAKE FAULT HOLOCENE-LATE QUATERNARY; HISTORIC (1982 earthquake cracks) Hsu and Wagner, 1990 Roquemore, G.R., 1981 Roquemore and Zellmer, 1983 Wills, C.J., 1988a Hart and others, 1989 SSZ: Little Lake, Volcano Peak, Pearsonville, Inyokern, Ridgecrest North

268

TANK CANYON FAULT

HOLOCENE

Clark and others, 1984 (5,000-10,000 yrs.) Hsu and Wagner, 1990

269

BROWN MOUNTAIN FAULT

HOLOCENE Bryant, W.A., 1989c Hart and others, 1989 SSZ: Hidden Spring, Wingate Pass

270

GARLOCK FAULT ZONE

HOLOCENE-LATE QUATERNARY Clark and others, 1984 Hsu and Wagner, 1990 SSZ: Cantil, Garlock, Saltdale SE, El Paso Peaks, Klinker Mtn., SW 1/4 and SE 1/4 Searles Lake, NW 1/4 Cuddeback Lake, SW 1/4 and SE 1/4 Wingate Pass, SW 1/4 and SE 1/4 Quail Mountains, SW 1/4 and SE 1/ 4 Leach Lake, SW 1/4 Avawatz Pass

CRACKS NEAR GARLOCK FAULT

HISTORIC

Zellmer and others, 1985 Hart and others, 1989 SSZ:Spangler Hills East

272

GROUND BREAKS IN GARLOCK FAULT ZONE (FREMONT VALLEY) HOLOCENE, HISTORIC (owing to ground water withdrawal) Pampeyan and others, 1988

Hart and others, 1989

273

EL PASO FAULT

LATE QUATERNARY Hsu and Wagner, 1990 Hart and others, 1989 Nitchman, S.P., 1989

274

SURFACE BREAK ON GARLOCK FAULT ZONE

HISTORIC (1952 Arvin-Tehachapi earthquake) Clark, M.M., 1973

274A

GARLOCK FAULT CREEP

HISTORIC Astiz and Allen, 1983 (creep on alignment array at Cameron)

275

WHEELER RIDGE FAULT

HOLOCENE; LATE QUATERNARY Hart and others, 1984 Keller and others, 1989 Smith, T.C., 1984c SSZ: Coal Oil Canyon, Mettler

275a

WHITE WOLF FAULT

HISTORIC (1952 Buwalda and St. Amand, 1955 SSZ: SE1/4 and SW1/4 Brechenridge Mtn., Bear Mtn., Arvin, Mettler, Coal Oil Canyon

276

BUENA VISTA FAULT

HISTORIC (creep owing to oil withdrawal) Hart and others, 1984 SSZ: Taft

277

WALLACE CREEK SITE ON SAN ANDREAS FAULT HOLOCENE Sieh and Jahns, 1984

278 SAN ANDREAS FAULT ZONE (PRIEST VALLEY TO CUYAMA)

HISTORIC (1857, 1901, 1906, 1922, 1934, 1966 earthquake ruptures) Brown and others, 1967 Byerly and Wilson, 1935 Lawson and others, 1908 Richter, C.F., 1958 Townley and Allen, 1939 SSZ: Priest Valley, Slack Canyon, Smith Mountain, Stockdale, Parkfield, Cholame Hills, Cholame Valley, Cholame, Orchard Peak, Holland Canyon, Packwood Creek, La Panza NE, Las Yeguas Ranch, Simmler, McKittrick Summit, Painted Rock, Panorama Hills, Wells Ranch, Elkhorn Hills, Cuyama

279

SAN JUAN FAULT

QUATERNARY Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988

280

LA PANZA FAULT

QUATERNARY

Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988

281

CAMBRIA FAULT

LATE QUATERNARY Hall and others, 1979 Pacific Gas and Electric Company, 1988

282

EDNA FAULT ZONE

QUATERNARY Buchanan-Banks and others, 1978 Hall and others, 1979 Pacific Gas and Electric Company, 1988

283

<u>SAN LUIS BAY FAULT</u>

LATE QUATERNARY Pacific Gas and Electric Company, 1988 (p. 3-16)

284

SAN MIGUELITO FAULT

PRE-QUATERNARY Buchanan-Banks and others, 1978 Hall and others, 1979 Pacific Gas and Electric Company, 1988 (p. 3-16)

285

LOS OSOS FAULT ZONE

HOLOCENE; LATE QUATERNARY Hall and others, 1979 Pacific Gas and Electric Company, 1988 Treiman, J.A., 1989a Hart and others, 1989 SSZ: San Luis Obispo

WILMER AVENUE FAULT LATE QUATERNARY; HOLOCENE?

Pacific Gas and Electric Company, 1988 (p. 3-16)

287

HOSGRI FAULT ZONE (OFFSHORE)

QUATERNARY Hoskins and Griffiths, 1971 McCulloch, D.S., 1989

288

OCEANO FAULT

LATE QUATERNARY Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988 (p. 3-16)

289

WEST HUASNA FAULT

LATE QUATERNARY

Buchanan-Banks and others, 1978 Hall and others, 1979 Pacific Gas and Electric Company, 1988

290

EAST HUASNA FAULT

QUATERNARY

Vedder and others, 1986a, 1988, 1989, 1990

291

SOUTH CUYAMA FAULT

QUATERNARY

Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988

292

SUR - NACIMIENTO FAULT ZONE OF VEDDER. HOWELL. AND MCCLEAN PRE-QUATERNARY Vedder and others, 1986a Vedder and others, 1988

293

SANTA MARIA FAULT

QUATERNARY

Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979 (p. 396)

294

BRADLEY CANYON FAULT

QUATERNARY Buchanan-Banks and others, 1978 Hart and others, 1986 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979

295

CASMALIA FAULT

LATE QUATERNARY?

Gray, L.D., 1980 Pacific Gas and Electric Company, 1988 296 LIONS HEAD FAULT

LATE QUATERNARY

Hart and others, 1986 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979

296A

ORCUTT OIL FIELD FAULTS QUATERNARY; LATE QUATERNARY Buchanan-Banks and others, 1978

297

SANTA LUCIA BANK FAULT (OFFSHORE) QUATERNARY McCulloch, D.S., 1989

298

PALEO-SUBDUCTION ZONE (OFFSHORE) AGE? McCulloch, D.S., 1989

299

SANTA YNEZ RIVER FAULT

LATE QUATERNARY? Buchanan-Banks and others, 1978 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979

300

HONDA FAULT LATE QUATERNARY? Pacific Gas and Electric Company, 1988

301

PACIFICO FAULT

LATE QUATERNARY? Hart and others, 1977 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979 Ziony and others, 1974

302

LOS ALAMOS FAULT HOLOCENE; LATE QUATERNARY Guptil and others, 1981 Hart and others, 1986 SSZ: Zaca Creek

303

GAREY FAULT

QUATERNARY Buchanan-Banks and others, 1978 Hall, C.A., 1981 Hart and others, 1986 Pacific Gas and Electric Company, 1988

FOXEN CANYON FAULT

SANTA MARIA RIVER FAULT

LATE QUATERNARY Buchanan-Banks and others, 1978 Hall, C.A., 1981 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979

305

BASELINE FAULT

LATE QUATERNARY Hart and others, 1977 Yerkes and Lee, 1987 (Plate 4.1)

306

LITTLE PINE FAULT

LATE QUATERNARY (northwestern part); QUATERNARY and PRE-QUATERNARY (southeastern part) Buchanan-Banks and others, 1978 Hall, C.A., 1981 Pacific Gas and Electric Company, 1988 Sylvester and Darrow, 1979

307

BIG PINE FAULT (WESTERN PART) PRE-QUATERNARY Vedder, J.G., 1989

308

<u>OZENA FAULT</u>

QUATERNARY

Yerkes and Lee, 1987 (Plate 4.1)

309

PLEITO FAULT

HOLOCENE; LATE QUATERNARY Bortungo, E.J., 1986 Clark and others, 1984 (280-8,500 and 18,000-30,000 yrs.) Hart and others, 1984 Smith, T.C., 1984c SSZ: Conner SW, Eagle Rest Peak, Pleito Hills, Grapevine

310

GARLOCK FAULT, SOUTH BRANCH

HOLOCENE

Clark, 1984 Hart, E.W. (see SSZ maps listed below) SSZ: Lebec, Winters Ridge, Pastoria Creek, Liebre Twins, Tylerhorse Canyon, Tehachapi South, Monolith, Mojave, NW 1/4 and NE 1/4 Mojave, SE 1/4 Cross Mtn.

311

SAN ANDREAS FAULT ZONE (CUYAMA TO PALMDALE)

HISTORIC (1857, 1916 earthquake ruptures) Hart, E.W. (see SSZ maps listed below) Wood, H.O., 1955 Bonilla, M.G., 1970 Agnew and Sieh, 1978 Sieh, K.E., 1978b Branner, J.C., 1917 SSZ: Cuyama, Ballinger Canyon, Santiago Creek, Sawmill Mountain, Cuddy Valley, Frazier Mtn., Lebec, La Liebre Ranch, Liebre Mtn., Burnt Peak, Lake Hughes, Del Sur, Sleepy Valley, Ritter Ridge, Palmdale 312 <u>UNNAMED FAULT NEAR FAIRMONT</u> <u>RESERVOIR ADJACENT TO SAN ANDREAS</u> <u>FAULT</u> HOLOCENE Dibblee, T.W., Jr., 1961 SSZ: Lake Hughes

313

UNNAMED FAULT AT EAST END OF BOQUET CANYON HOLOCENE

Kahle and others, 1975 SSZ: Sleepy Valley

314

CLEARWATER FAULT

LATE QUATERNARY Smith, T.C., 1977a Ziony and Yerkes, 1985 (p. 55 and Fig.11) Ziony and Jones, 1989

315

PELONA FAULT

QUATERNARY Smith, T.C., 1978

316

SAN GABRIEL FAULT (WESTERN PART)

LATE QUATERNARY; HOLOCENE near Castaic Cotton, W.R., 1986 Weber, F.H., Jr., 1986 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55) SSZ: Newhall

317

ALAMO THRUST

DRY CREEK THRUST

FRAZER MOUNTAIN THRUST

QUATERNARY Yerkes and Lee, 1987 (Plate 4.1)

318

BIG PINE FAULT (EASTERN PART)

LATE QUATERNARY Hart and others, 1977 Yerkes and Lee, 1987 (Plate 4.1)

319

PINE MOUNTAIN FAULT

LATE QUATERNARY

Yerkes and Lee, 1987 (Plate 4.1)

320

SANTA YNEZ FAULT

LATE QUATERNARY; HOLOCENE near Lake Cachuma Clark and others, 1984 (10,000-70,000 yrs.) Yerkes and Lee, 1987 (Plate 4.1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

SANTA YNEZ FAULT. SOUTH BRANCH

LATE QUATERNARY Clark and others, 1984 (5,000-15,000 yrs.) Hart and others, 1977 Yerkes and Lee, 1987 (Plate 4.1)

322

MORE RANCH FAULT

LATE QUATERNARY Clark and others, 1984 (40,000-60,000 yrs.) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

323

LAVIGIA FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

324

SAN JOSE FAULT (SANTA BARBARA COUNTY) LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

325

MESA - RINCON CREEK FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

326

CARPINTERIA FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51)

327

MISSION RIDGE FAULT ARROYO PARIDA FAULT

LATE QUATERNARY Clark and others, 1984 (28,500-39,500 yrs.) Rockwell and others, 1984 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

328

SHEPARD MESA FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 53)

329

SANTA ANA FAULT

LATE QUATERNARY Hart and others, 1986 (p. 26 and Plate 1) Rockwell and others, 1984 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54)

330

FAULTS NEAR OAKVIEW AND MEINERS OAKS

HOLOCENE; LATE QUATERNARY Hart and others, 1986 (p. 25 and Plate 1) Rockwell and others, 1984 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54) SSZ: Matilija

331

RED MOUNTAIN FAULT

LATE QUATERNARY Clark and others, 1984 (45,000-60,000 yrs.) Smith, T.C., 1977b Yeats and others, 1987 (p. 161) Yerkes and Lee, 1987 (p. 77 and Plate 4.1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54) SSZ: Pitas Point

332

JAVON CANYON FAULT

HOLOCENE Sarna-Wojcicki and others, 1987 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54) Treiman, J.A., 1989c Hart and others, 1991 SSZ: Pitas Point

333

SANTA ROSA ISLAND FAULT

LATE QUATERNARY Clark and others, 1984 (45,000-700,000 yrs.) Vedder and others, 1987 Ziony and Yerkes, 1985 (p. 56)

334

SANTA CRUZ ISLAND FAULT

LATE QUATERNARY, HOLOCENE Vedder and others, 1986b (offshore) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56) Pinter and Sorlien, 1991 (<11,800 yrs)

334A

SANTA CRUZ-SANTA CATALINA RIDGE FAULT ZONE (OFFSHORE) LATE QUATERNARY?

Ziony and Jones, 1989 (p. 3).

335

OAK RIDGE FAULT (ONSHORE AND OFFSHORE) LATE QUATERNARY; HOLOCENE south of Fillmore and

offshore Vedder and others, 1986b (offshore) Yeats, R.S., 1987 (p. 151-153) Yerkes and Lee, 1987 (p. 78) Treiman, J.A., 1990b (onshore) Hart and others, 1991 (onshore) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

VENTURA FAULT (PITAS POINT - VENTURA

FAULT)

HOLOCENE Hart and others, 1986 Vedder and others, 1986b (offshore) Yerkes and Lee, 1987 (p. 77-78) Yerkes and others, 1987 (p. 169, 174, 175) Ziony and Jones, 1989 SSZ: Saticoy, Ventura

337

LION CANYON FAULT

LATE QUATERNARY

Hart and others, 1986 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54)

338

UNNAMED FAULTS AT ALISO CANYON AND WEST OF SANTA PAULA LATE QUATERNARY

Yerkes and Lee, 1987 (Plate 4.1)

339

FAULTS OF ORCUTT AND TIMBER CANYONS HOLOCENE; LATE QUATERNARY Clark and others, 1984 (4500-5000 and 25,000-30,000 yrs.) Hart and others, 1986 (p. 20 and Plate 1) Rockwell, T.K., 1988 Ziony and Jones, 1989 SSZ: Santa Paula Peak

340

SAN CAYETANO FAULT

HOLOCENE; LATE QUATERNARY Clark and others, 1984 (8,000-12,000 yrs.) Hart and others, 1986 Rockwell, 1983, 1988 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 54) SSZ: Fillmore, Santa Paula Peak, Ojai

341

SANTA FELICIA FAULT

LATE QUATERNARY? Yeats and others, 1986 (p. 1 and Plate II) Ziony and Jones, 1989

342

HOLSER FAULT LATE QUATERNARY?

Winterer and Durham, 1962 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

343

DEL VALLE FAULT

LATE QUATERNARY? Yeats and others, 1986 (Plate II) Ziony and Jones, 1989

344 SANTA SUSANA FAULT

LATE QUATERNARY; HISTORIC (1971 rupture

accompanying San Fernando earthquake)

Lung and Weick, 1987 (p. 69) Yeats, R.S., 1987 (p. 137, 158) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

345

BIG MOUNTAIN FAULT

QUATERNARY (Plio-Pleistocene) Hart and others, 1978 Yerkes and Lee, 1987 (Plate 4.1)

346

SIMI FAULT (ALSO KNOWN AS

SANTA ROSA FAULT)

LATE QUATERNARY Yeats, R.S., 1983 Yerkes and Lee, 1987 (Plate 4.1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

347

UNNAMED FAULTS NEAR MOORPARK

LATE QUATERNARY Yerkes and Lee, 1987 (Plate 4.1)

348

SPRINGVILLE FAULT AND VICINITY

LATE QUATERNARY? Yerkes and Lee, 1987 (Plate 4.1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

349

CAMARILLO FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 55)

350

BAILEY FAULT LATE QUATERNARY Hart and others, 1978 Yerkes and Lee, 1987 (Plate 4.1)

351

BONEY MOUNTAIN FAULT SYCAMORE CANYON FAULT

QUATERNARY Hart and others, 1978

Than and

352 CHATSWORTH FAULT

LATE QUATERNARY Hart and others, 1978 Yerkes and Lee, 1987 (Plate 4.1) Ziony and others, 1974 (Sheet 2)

NORTHRIDGE HILLS FAULT

LATE QUATERNARY or HOLOCENE Weber, F.H., Jr., 1980 (p. B-53) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

354

MISSION HILLS FAULT

LATE QUATERNARY or HOLOCENE Saul, R.B., 1975 (p. 62-63) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

355

UNNAMED FAULT (UPPER VAN NORMAN LAKE AREA) HOLOCENE Allen and others, 1975 U.S. Geological Survey, 1971 Spellman and others, 1984

356

SAN FERNANDO FAULT HISTORIC (1971 earthquake ruptures) Allen and others, 1975 Barrows and others, 1975 U.S. Geological Survey, 1991

SSZ: San Fernando, Sunland, Oat Mountain

357

SIERRA MADRE FAULT

HOLOCENE; LATE QUATERNARY (Holocene - western part between Big Tujunga and Dunsmore Canyons; late Quaternary - eastern part) Bortugno, E.J., 1986 Clark and others, 1984 (1,000-11,000 and 200,00-500,000 yrs.)

Crook and others, 1987 (p. 41-53) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57) SSZ: Sunland, Burbank

358

SAN ANDREAS FAULT ZONE (PALMDALE TO CAJON) HISTORIC (1857 earthquake rupture)

Barrows and others, 1985 Hart, E.W. (see SSZ maps listed below) SSZ: Palmdale, Little Rock, Juniper Hills, Valyermo, Mescal Creek, Mount San Antonio, Telegraph Peak, Cajon

359

PALLET CREEK SITE ON SAN ANDREAS FAULT HOLOCENE Sieh, K., 1978a, 1978b

360

SAN ANDREAS FAULT

1812 EARTHQUAKE RUPTURE? Jacoby and others, 1988 Sieh and others, 1989

361 LLANO FAULT

HOLOCENE? Bortugno, E.J., 1986 Guptil and others, 1979 Ponti and Burke, 1980 Ziony and Jones, 1989

362

MIRAGE VALLEY FAULT LATE QUATERNARY Bortugno, E.J., 1986 Hart and others, 1988

363

LEUHMAN FAULT

QUATERNARY; LATE QUATERNARY at southeast end Bortugno, E.J., 1986 Hart and others, 1988

364

KRAMER HILLS FAULT LATE QUATERNARY Bortugno, E.J., 1986 Hart and others, 1988

365

LOCKHART FAULT

SOUTH LOCKHART FAULT HOLOCENE Bortugno, E.J., 1986 Bryant, W.A., 1987c Hsu and Wagner, 1990 SSZ: Kramer Hills, The Buttes, Lockhart

366

UNNAMED FAULT ON WEST SIDE OF HARPER LAKE HOLOCENE Bryant, W.A., 1987c SSZ: Lockhart

367

NORTH LOCKHART FAULT LATE QUATERNARY

Bryant, W.A., 1987c

368

GRAVEL HILLS FAULT

HOLOCENE Bryant, W.A., 1987c Hsu and Wagner, 1990 SSZ: Fremont Peak

369

HARPER FAULT ZONE HOLOCENE Bortugno, E.J., 1986 Bryant, W.A., 1987c Hsu and Wagner, 1990 SSZ: Bird Spring, Lockhart, Water Valley, Mud Hills

BLACKWATER FAULT

HOLOCENE; QUATERNARY Bortugno, E.J., 1986 Bryant, W.A., 1987c Hsu and Wagner, 1990 SSZ: Opal Mountain, Superior Lake

371

COYOTE LAKE FAULT

QUATERNARY? Wesnousky, S.G., 1986

372

MANIX FAULT

HOLOCENE; 1947 earthquake rupture Bortugno, E.J., 1986 Dibblee and Bassett, 1966 Hileman and others, 1973 Keaton and Keaton, 1977 Richter, C.F., 1958 (p. 526-518). SSZ: NE 1/4 Newberry, NW 1/4 Cady Mountains

373

HARPER LAKE FAULT LATE QUATERNARY; HOLOCENE? Bryant, W.A., 1987c

374

MT. GENERAL FAULT

HOLOCENE in part Bortugno, E.J., 1986 Bryant, W.A., 1987c SSZ: Barstow

375

LENWOOD FAULT CREEP

HISTORIC Church and others, 1974 Morton and others, 1980

376

CALICO FAULT

HOLOCENE

Bortugno, E.J., 1986 Bortugno, E.J., 1987 Morton and others, 1980 SSZ: Yermo, Harvard Hill, Newberry Springs, Troy Lake, Silver Bell Mine

377

CHEMEHUEVI GRABEN

LATE QUATERNARY Purcell and Miller, 1980

378

PISGAH FAULT

HOLOCENE Bortugno, E.J., 1986 Hart and others, 1988 Morton and others, 1980 SSZ: Hector, Sunshine Peak, Lavic Lake, Lavic SE

379 RODMAN FAULT

QUATERNARY

Bortugno, E.J., 1986 Hart and others, 1987

380

CAMP ROCK FAULT

HOLOCENE; HISTORIC (earthquake rupture 1992) Hart and others, 1988 Manson, M.W., 1986a Morton and others, 1980 SSZ: Minneola, Ord Mountain, Camp Rock Mine, Fry Mountains, Iron Ridge

381

LENWOOD FAULT

HOLOCENE Bortugno, E.J., 1986 Hart and others, 1988 Morton and others, 1980 Ziony and Yerkes, 1985 SSZ: Rattlesnake Canyon, Old Woman Springs, Fry Mountains, Grand View, Ord Mountain, West Ord Mtn., Daggett, Barstow SE.

382

HELENDALE FAULT

HOLOCENE; LATE QUATERNARY Bortugno, E.J., 1986 Morton and others, 1980 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 52) SSZ: Turtle Valley, Apple Valley North, Fairview Valley, Fifteenmile Valley, Lucerne Valley, Cougar Buttes, Big Bear City

383

SQUAW PEAK FAULT

PRE-QUATERNARY Matti and others, 1985 Meisling and Weldon, 1989 (age p. 117)

384

SAN GABRIEL FAULT (EASTERN PART)

QUATERNARY Bortugno, E.J., 1986

385

CLAMSHELL - SAWPIT CANYON FAULT ZONE

LATE QUATERNARY Bortugno, E.J., 1986 Crook and others, 1987 (p. 49 and Plate 2.3) Morton, D.M., 1973 (p. 17-18)

Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57)

EAGLE ROCK FAULT

SAN RAFAEL FAULT

LATE QUATERNARY?

Lamar, D.L., 1970 (p. 39) Weber, F.H., Jr., 1980 (p. A-3, A-4) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

387

VERDUGO FAULT

HOLOCENE; LATE QUATERNARY Weber and others, 1980 (p. A-2, A-3, A-4) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

388

POSSIBLE FAULT IN NORTH HOLLYWOOD HOLOCENE? Weber, F.H., Jr., 1980 (p. B-99) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

389

MALIBU COAST FAULT

LATE QUATERNARY; HOLOCENE Clark and others (185,000-200,000 yrs.) Fall and others, 1987 (Holocene faulting at Malibu Point) Leighton and Associates, 1989 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 56)

390

MALIBU COAST FAULT (OFFSHORE) HOLOCENE

Vedder and others, 1986b

391

SANTA MONICA FAULT

LATE QUATERNARY Clark and others, 1984 (122,000-126,000 yrs.) Real, C.R., 1987 (p. 113 — seismically active) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57)

392

HOLLYWOOD FAULT

HOLOCENE

Clark and others, 1984 (4,000-6,000 yrs.) Weber and others, 1980 (p. A-3 and Plate 1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57)

393

FAULT WEST OF MONTEREY PARK

LATE QUATERNARY? Ziony and Jones, 1989

394 <u>RAYMOND FAULT</u> HOLOCENE Crook and others, 1987 (p. 58) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57) Treiman, J.A., 1991b Hart and others, 1991 SSZ: Los Angeles, El Monte, Mt. Wilson

395

DUARTE FAULT LATE QUATERNARY; possibly HOLOCENE along northern strand near Azusa Bortugno, E.J., 1986 Crook and others, 1987 (p. 50, 52) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57)

396

SAN JOSE FAULT LATE QUATERNARY Bortugno, E.J., 1986 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 58)

397

INDIAN HILL FAULT LATE QUATERNARY Bortugno, E.J., 1986 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 57)

398

RED HILL-ETIWANDA AVENUE FAULT

LATE QUATERNARY except HOLOCENE at eastern end Hart and others, 1978 Bortugno, E.J., 1986 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 58) SSZ: Cucamonga Peak

399

CUCAMONGA FAULT

HOLOCENE Bortugno, E.J., 1986 Morton and Matti, 1987 (p. 179) Ziony and Jones, 1989 SSZ: Devore, Cucamonga Peak, Mt. Baldy

400

LYTLE CREEK FAULT

LATE QUATERNARY; QUATERNARY Bortugno, E.J., 1986 Matti and others, 1985 Morton and Matti, 1987 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 48) SSZ: Devore

SAN JACINTO FAULT

HOLOCENE; LATE QUATERNARY; HISTORIC (1899?) Bonilla, M.G., 1970 Bortugno, E.J., 1986 Danes, J.V., 1907 Matti and others, 1985 Morton and others, 1987 Toppozada and others, 1981 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 48) SSZ: Devore, San Bernardino North, San Bernardino South, San Jacinto, Hemet, NE 1/4 Hemet

402

GLEN HELEN FAULT

HOLOCENE

Bortugno, E.J., 1986 Matti and others, 1985 Morton and others, 1987 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 48) SSZ: Devore

403

CLEGHORN FAULT

HOLOCENE; LATE QUATERNARY Bryant, W.A., 1987b Meisling, K.E., 1984 (p. 171-177, 268, 271-288) Meisling and Weldon, 1989 (p. 121) Clark and others, 1984 (50,000-100,000 yrs.) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 58)

404

GRASS VALLEY FAULT

LATE QUATERNARY? Bryant, W.A., 1987b Meisling, K.E., 1984 (p. 178-179) Ziony and Jones, 1989

405

ORD MOUNTAINS FAULT

HOLOCENE

Bryant, W.A., 1986c Hart and others, 1988 Meisling, K.E., 1984 (p. 182, 295-298) Ziony and Jones, 1989 SSZ: Apple Valley South

406

BOWEN RANCH FAULT

LATE QUATERNARY? Meisling, K.E., 1984 (p. 196, 197, 309) Ziony and Jones, 1989 NORTH FRONTAL FAULT ZONE (OF SAN BERNARDINO MOUNTAINS) LATE QUATERNARY; HOLOCENE Bortugno, E.J., 1986 Bryant, W.A., 1986b Meisling, K.E., 1984 Miller, F.K., 1987 (p. 83, 94) Ziony and Yerkes, 1985 (p. 58) SSZ: Rattlesnake Canyon, Bighorn Canyon

408

407

SKY HI RANCH FAULT

HOLOCENE Bryant, W.A., 1986b Meisling, K.E., 1984 (p. 289-294) Meisling and Weldon, 1989 (p. 122) Ziony and Jones, 1989 SSZ: Fifteenmile Valley, Lucerne Valley, Fawnskin

409

ARRASTRE CANYON NARROWS FAULT

LATE QUATERNARY? Meisling, K.E., 1984 (p. 197-200, 308, 309) Ziony and Jones, 1989

410

TUNNEL RIDGE FAULT

LATE QUATERNARY? Bryant, W.A., 1986c Meisling, K.E., 1984 (p. 180-182, 299) Meisling and Weldon, 1989 (p. 120) Ziony and Jones, 1989

411

WATERMAN CANYON FAULT

LATE QUATERNARY Meisling and Weldon, 1989 (p. 108, 117)

412

SANTA ANA FAULT QUATERNARY Bortugno, E.J., 1986 Matti and others, 1985

413

HELENDALE FAULT (SOUTHEAST EXTENSION)

UNDIVIDED QUATERNARY Bortugno, E.J., 1986 Bryant, W.A., 1986b Hart and others, 1988

414

OLD WOMAN SPRINGS FAULT SILVER REEF FAULT HOLOCENE Bortugno, E.J., 1986 Bryant, W.A., 1986b Manson, M.W., 1986b Morton and others, 1980 SSZ: Old Woman Springs, Rattlesnake Canyon

JOHNSON VALLEY FAULT HOLOCENE; HISTORIC (1979 earthquake ruptures) Bortugno, E.J., 1986 Hart and others, 1988 Hill and others, 1980 Morton and others, 1980 SSZ: Landers, Bighorn Canyon, Melville Lake, Old Woman Springs

416

GALWAY LAKE FAULT

HISTORIC (Ground rupture, 1975 earthquake) Hill and Beeby, 1977 Manson, M.W., 1986a SSZ: Galway Lake

417

WEST CALICO FAULT

HOLOCENE

Bortugno, E.J., 1986 Bortugno, E.J., 1987 Morton and others, 1980 SSZ: Silver Bell Mine, Sunshine Peak, Galway Lake, Lavic SE, Hidalgo Mtn.

418

BULLION FAULT

HOLOCENE Bortugno, E.J., 1986 Hart and others, 1987 SSZ: Lavic SE, Hildalgo Mtn., Deadman Lake NW

419

HIDALGO FAULT HOLOCENE; QUATERNARY Bortugno, E.J., 1986 Hart and others, 1987 SSZ: Deadman Lake SW, Hildalgo Mtn.

420

EMERSON FAULT

HOLOCENE; HISTORIC (earthquake rupture 1992) Bortugno, E.J., 1986 Hart and others, 1988 Manson, M.W., 1986a Morton and others, 1980 SSZ: Iron Ridge, Melville Lake, Emerson Lake

421

HOMESTEAD VALLEY FAULT HOLOCENE; HISTORIC (1979, 1992 earthquake ruptures) Bortugno, E.J., 1986 Hart and others, 1988 Hill and others, 1980 SSZ: Landers, Emerson Lake, Melville Lake, Iron Ridge

422

MESQUITE LAKE FAULT HOLOCENE Bortugno, E.J., 1986 Hart and others, 1987 Morton and others, 1980 SSZ: Deadman Lake SE, Twentynine Palms, Valley Mtn., Twentynine Palms Mountain

423

COPPER MOUNTAIN FAULT HOLOCENE: LATE QUATERNARY

Bortugno, E.J., 1986 Hart and others, 1987 Morton and others, 1980 SSZ: Sunfair, Joshua Tree North

424

UNNAMED FAULT AT FLAMINGO HEIGHTS

HOLOCENE? HISTORIC (earthquake rupture 1992) Bryant, W.A., 1986a SSZ: Yucca Valley North

425

PINTO MOUNTAIN FAULT HOLOCENE; LATE QUATERNARY Bortugno, E.J., 1986 Bryant, W.A., 1986a SSZ: SW 1/4 and SE 1/4 Morango Valley, Yucca Valley

South, Yucca Valley North, Joshua Tree North, Sunfair, Queen Mtn., Twentynine Palms

426

SAN GORGONIO MOUNTAIN FAULT

LATE QUATERNARY Bortugno, E.J., 1986 Wesnousky, S.G., 1986

427

MILL CREEK FAULT

(NORTH BRANCH SAN ANDREAS FAULT)

LATE QUATERNARY Bortugno, E.J., 1986 Matti and others, 1985 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 48) SSZ: SW 1/4 Morongo Valley, SE 1/4 and SW 1/4 San Gorgonio Mtn.

428

CRAFTON HILLS FAULT ZONE

HOLOCENE; LATE QUATERNARY Bortugno, E.J., 1986 Hart and others, 1978 Morton, D.M., 1978c Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 58) SSZ: Yucaipa

429

RIALTO - COLTON FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49)

430

INFERRED FAULT NEAR FONTANA Possibly LATE QUATERNARY; numerous closely aligned small earthquakes Morton, D.M., 1976 Ziony and Jones, 1989

Ziony and Yerkes, 1985 (p. 58)

CHINO FAULT

LATE QUATERNARY

Clark and others, 1984 (125,000-500,000 yrs.) Ziony and Jones, 1989

432

CENTRAL AVENUE FAULT

LATE QUATERNARY? Greenwood, R., 1991 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49)

433

FAULTS IN WEST COYOTE HILLS

LATE QUATERNARY; 1968 surface rupture probably related to oil withdrawal Yerkes, R.F., 1972 Tan and others, 1987 (p. 29-30) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 50) SSZ: La Habra

434

POTRERO FAULT

INGLEWOOD FAULT

AVALON - COMPTON FAULT

HOLOCENE; LATE QUATERNARY; surface faulting (creep) on Inglewood fault since 1957 due to oil and gas withdrawal Barrows, A.G., 1974 (p. 18 and Plate 1) Bryant, W.A., 1988d Hart and others, 1986 (p. 21-23, Plate 1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51) SSZ: Beverly Hills, Hollywood, Inglewood, Torrance

435

CHARNOCK FAULT

OVERLAND AVENUE FAULT

LATE QUATERNARY Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 52)

436

REDONDO CANYON FAULT (OFFSHORE)

HOLOCENE Clarke and others, 1985 (p. 365) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 52)

436A

SAN PEDRO BASIN FAULT ZONE (OFFSHORE) LATE QUATERNARY? Ziony and Jones, 1989

437

PALOS VERDES FAULT (PALOS VERDES HILLS FAULT)

LATE QUATERNARY; HOLOCENE offshore, in part Clark and others, 1984 (10,000 yrs. offshore) Vedder and others, 1986b (offshore parts) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 52)

438

CABRILLO FAULT

LATE QUATERNARY on shore; HOLOCENE offshore Ziony and Jones, 1989

439

NEWPORT - INGLEWOOD FAULT ZONE

(SOUTH BRANCH FAULT)

LATE QUATERNARY Hart and others, 1986 (p. 24 and Plate 1) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51)

440

NORTH BRANCH FAULT (NEWPORT -INGLEWOOD FAULT ZONE)

HOLOCENE Bryant, W.A., 1988d Guptil and Heath, 1981 Hart and others, 1986 (p. 24 and Plate 1) Woodward-Clyde Consultants, 1987 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51) SSZ: Newport Beach, Seal Beach, Los Alamitos

441

CHERRY HILL FAULT

RESERVOIR HILL FAULT

SEAL BEACH FAULT

HOLOCENE Bryant, W.A., 1988d Hart and others, 1986 (p. 21-24, Plate 1)

Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51) SSZ: Long Beach, Los Alamitos, Seal Beach

442

LOS ALAMITOS FAULT

LATE QUATERNARY? Ziony and Jones, 1989

443

NORWALK FAULT?

AGE?

Hill, M., 1989 (no good evidence for fault). Tan and others, 1984 (p. 12, 13, 28, 29). Yerkes, R.F., 1972 (p. 31). Ziony and Jones, 1989 (p. 14). Ziony and Yerkes, 1985 (p. 50).

444

WHITTIER FAULT

LATE QUATERNARY; HOLOCENE Treiman, J.A., 1991a (Holocene age) Greenwood, R., 1991 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49) Rockwell, T.K., 1990 (Holocene age) Treiman, J.A., 1991a Hart and others, 1991 SSZ: Yorba Linda, Prado Dam, El Monte, La Habra

PERALTA HILLS FAULT LATE QUATERNARY; HOLOCENE? Bryant and Fife, 1982 Greenwood, R., 1991 Wills, C.J., 1988b Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 50) Hart and others, 1989

446

FRESNO FAULT

TIN MINE FAULT MAIN STREET FAULT

LATE QUATERNARY; HOLOCENE Weber, F.H., Jr., 1977 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49) SSZ: Corona South

447

CLAREMONT FAULT

HOLOCENE

Hart and others, 1979 Morton, D.M., 1978a Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 48) SSZ: Sunnymead, San Bernardino South, El Casco

448

SAN GORGONIO PASS FAULT ZONE (WESTERN EXTENSION) LATE QUATERNARY

Matti and others, 1985 Molinari and others, 1988

449

BANNING FAULT (WESTERN PART)

LATE QUATERNARY; HOLOCENE Matti and others, 1985 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 58) SSZ: Cabazon, Whitewater, Desert Hot Springs, Seven Palms Valley, Cathedral City

450

MISSION CREEK FAULT HOLOCENE; LATE QUATERNARY Matti and others, 1985 SSZ: SE 1/4 and SW 1/4 Moronga Valley, SE 1/4 and SW 1/4 San Gorgonio Mtn.

451

MORONGO VALLEY FAULT

HOLOCENE; LATE QUATERNARY Bortugno, E.J., 1986 SSZ: SE 1/4 Morongo Valley

452 BANNING FAULT (EASTERN PART)

HOLOCENE; 1986 earthquake ruptures; 1983 creep Matti and others, 1985 Sharp and others, 1986 SSZ: Cabazon, Whitewater, Desert Hot Springs, Seven Palms Valley, Cathedral City, Myoma

453

MISSION CREEK FAULT OF ALLEN (1957) HOLOCENE Clark, M.M., 1984 (p. 4)

454

GARNET HILL FAULT

HOLOCENE

Matti and others, 1985 SSZ: Whitewater

455

SAN GORGONIO PASS FAULT ZONE HOLOCENE Matti and others, 1985 Ziony and Jones, 1989 SSZ: Cabazon, Whitewater

<u>456</u>

BEAUMONT PLAIN FAULT ZONE

LATE QUATERNARY Hart and others, 1979 Matti and others, 1985 (p. 14) Ziony and Jones, 1989

<u>457</u>

CASA LOMA FAULT

HOLOCENE, with creep since 1939 probably owing to groundwater withdrawal Hart and others, 1979 Morton, D.M., 1978b Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49) SSZ: El Casco, Lakeview, San Jacinto

458

HOT SPRINGS FAULT LATE QUATERNARY Matti and others, 1985 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 49) SSZ: NE 1/4 Hemet, NW 1/4 Idyllwild, San Jacinto

<u>459</u>

CLARK FAULT HOLOCENE Ziony and Jones, 1989 SSZ: SW 1/4 and SE 1/4 Idyllwild, Bucksnort Mtn., Collins Valley, Clark Lake NE, Clark Lake, Fonts Point

WILDOMAR FAULT

HOLOCENE

Hart and others, 1979 (Table 1) Kennedy, M.P., 1977 (p. 9 and Plate 1) Wills, C.J., 1988c Ziony and Jones, 1989 Hart and others, 1989 SSZ: Elsinore, Wildomar, Murrieta, Temecula, Pechanga, Pala

461

GLEN IVY NORTH FAULT

HOLOCENE

Hart and others, 1979 (Table 1) Weber, F.H., Jr., 1977 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 50) SSZ: Corona South, Lake Mathews, Alberhill

462

GLEN IVY SOUTH FAULT

HOLOCENE; LATE QUATERNARY in southeastern part Weber, F.H., Jr., 1977 Ziony and Jones, 1989 Ziony and YerkES, 1985 (P. 50) SSZ: Alberhill, Lake Mathews

463

PELICAN HILL FAULT

LATE QUATERNARY Clark and others, 1986 (age, p. 46) Greenwood, R., 1991 Vedder, J.G., 1975 Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 51)

464

UNNAMED FAULTS ON CATALINA ISLAND PRE-QUATERNARY

Boundy-Sanders and others, 1990

465

NEWPORT INGLEWOOD-ROSE CANYON FAULT ZONE (OFFSHORE) QUATERNARY Clarke and others, 1987

466

CRISTIANITOS FAULT ZONE (OFFSHORE) QUATERNARY Clarke and others, 1987

467

WILLARD FAULT

LATE QUATERNARY; HOLOCENE Hart and others, 1979 (Table 1 and Plate 1) Kennedy, M.P., 1977 (p. 8-9 and Plate 1) Rockwell, T.K., 1990 (partly Holocene) Wills, C.J., 1988c Ziony and Jones, 1989 SSZ: Murrieta

468

MURRIETTA HOT SPRINGS FAULT

LATE QUATERNARY; HOLOCENE? Greenwood, R., 1991 Kennedy, M.P., 1977 (p. 10 and Plate 1) Rockwell, T.K., 1990 (probably Holocene) Ziony and Jones, 1989 Ziony and Yerkes, 1985 (p. 50)

469

WOLF VALLEY FAULT AND GROUND CRACKS

HOLOCENE; LATE QUATERNARY Kennedy, M.P., 1977 (p. 9-10 and Plate 1) Wills, C.J., 1988c Ziony and Yerkes, 1985 (p. 50) Hart and others, 1989 SSZ: Pechanga

470

FAULTS FLANKING AGUA TIBIA MOUNTAIN (PART OF ELSINORE FAULT) LATE QUATERNARY?

Vaughan and Rockwell, 1986 (p. 188) Ziony and Jones, 1989

471

BUCK RIDGE FAULT

LATE QUATERNARY Sharp, R.V., 1967

Sharp, R.V., 1907 Sharp, R.V., 1972 SSZ: Clark Lake, Collins Valley, SW 1/4 Palm Desert, SE 1/4 Idyllwild

472

SAN ANDREAS FAULT ZONE (INDIO TO SALTON SEA)

HOLOCENE; HISTORIC (1979, 1968 ground ruptures) Clark, M.M., 1984 Williams and others, 1988 (triggered creep) Hart, E.W. (see SSZ maps listed below) SSZ: Indio, SW 1/4 Lost Horse Mtn., Thermal Canyon, Mecca, Mortmar, Orocopia Canyon, Durmid, Salton, Frink NW, Frink

473

UNNAMED FAULTS EAST OF SAN ANDREAS FAULT

LATE QUATERNARY Clark, M.M., 1984

473A

CHIRIACO FAULT PRE-QUATERNARY Powell, R.E., 1975 Powell, R.E., 1981

474

BLYTHE GRABEN LATE QUATERNARY Purcell and Miller, 1980

HIDDEN SPRINGS FAULT

LATE QUATERNARY

Hart, E.W., (see Special Studies Zone Maps below) SSZ: Durmid, Orocopia Canyon, Mortmar

476

HOT SPRINGS FAULT

HOLOCENE

Bryant, W.A., 1987a SSZ: Frink NW, Frink

477

SAN ANDREAS FAULT (AT BOMBAY BEACH AND VICINITY)

HOLOCENE; LATE QUATERNARY Bryant, W.A., 1987a Clark, M.M., 1984 Townley and Allen, 1938 (1868 fissure) SSZ: Frink, Frink NW, Durmid

478

COYOTE MOUNTAIN FAULT AND OTHER YOUNG FAULTS IN VICINITY HOLOCENE; LATE QUATERNARY Theodore and Sharp, 1975

479

COYOTE CREEK FAULT

HOLOCENE; HISTORIC (1968 earthquake rupture; creep). Allen and others, 1972 Clark, M.M., 1972a Dibblee, T.W., Jr., 1954 Harsh, P.W., 1977 Sharp and Clark, 1972 Sharp, R.V., 1967 Sharp, R.V., 1967 Sharp, R.V., 1972 SSZ: Bucksnort Mtn, Collins Valley, Clark Lake NE, Borrego Palm Canyon, Clark Lake, Borrego Mountain, Shell Reef, Borrego Mountain SE, Harpers Well

480

COYOTE CREEK FAULT? SEGMENT HOLOCENE

Rockwell, T.K., 1990 (fault breaks Holocene shoreline of L. Cahuilla)

481

UNNAMED FAULTS

LATE QUATERNARY; HOLOCENE

Clark, M.M., 1982, and Clark written communication 8/ 15/1989.

482

EARTHQUAKE VALLEY FAULT

HOLOCENE

Clark, M.M., 1982, and Clark written communication, 8/ 15/1989 Hart and others, 1979 SSZ: Earthquake Valley, Julian, Ranchita 483 ELSINORE FAULT

HOLOCENE; LATE QUATERNARY Clark, M.M., 1982 Hart and others, 1979 Kennedy, M.P., 1977 Smith, D.P., 1979 SSZ: Sweeney Pass, Arroyo Tapiado, Agua Caliente Springs, Monument Peak, Julian, Earthquake Valley, Mesa Grande, Warners Ranch

484

PALOS VERDES HILLS-CORONADO BANK FAULT ZONE (OFFSHORE) HOLOCENE Clarke and others, 1987

485

SAN CLEMENTE FAULT (OFFSHORE) LATE QUATERNARY; HISTORIC? (1951 earthquake) Clarke and others, 1987 Legg and Kennedy, 1979 (p. 42) Legg and others, 1989 (Late Quaternary age, p. 1727) Richter, C.F., 1958 (p. 446) Vedder and others, 1986b

486

SAN DIEGO TROUGH FAULT (OFFSHORE)

HOLOCENE Clarke and others, 1987 Legg, M.R., 1985

487

MISSION BAY FAULT

LATE QUATERNARY Treiman, J.A., 1984

488

POINT LOMA FAULT ZONE

LATE QUATERNARY

Kennedy and others, 1975 (p. 13, Plate 1)

489

CORONADO BANK FAULT ZONE (OFFSHORE)

LATE QUATERNARY; HOLOCENE; QUATERNARY Legg, M.R., 1985 Legg and others, 1989

490

CORONADO FAULT

QUATERNARY

Kennedy and Welday, 1980 Treiman, J.A., 1984 (p. 42, Plate 1)

490A

SPANISH BIGHT FAULT

QUATERNARY

Kennedy and Welday, 1980

ROSE CANYON FAULT

HOLOCENE; LATE QUATERNARY Kennedy and others, 1975 (p. 8, 13, Plate 1) Treiman, J.A., 1984, 1990b Hart and others, 1991 Rockwell, T.K., 1990 SSZ: La Jolla, Point Loma

492

OLD TOWN FAULT

LATE QUATERNARY? Kennedy and others, 1975 (Plate 1) Treiman, J.A., 1984

493

LA NACION FAULT ZONE

SWEETWATER FAULT

QUATERNARY

Kahle, J.E., 1988 Kennedy and others, 1975 (p. 13) Hart and others, 1989

493A

SILVER STRAND FAULT

QUATERNARY Kennedy and Welday, 1980 Clarke and others, 1987

494

THING VALLEY FAULT PINE VALLEY FAULT OTHER UNNAMED FAULTS PRE TERTIARY?

Todd, V.R., 1979

495

LAGUNA MEADOW FAULT

QUATERNARY in part; PRE-TERTIARY in part Todd, V.R., 1979

496

ELSINORE FAULT (SOUTHERN PART COYOTE MOUNTAINS) HOLOCENE Hart, E.W. (see SSZ map below)

Rockwell and Pinault, 1986 (p. 193-196) SSZ: Carrizo Mtn.

497

TRIGGERED FAULT CREEP

HISTORIC (1989 Superstition Hills earthquake) Hudnut and Clark, 1989 (p. 453)

498

KANE SPRING FAULT

LATE QUATERNARY; HISTORIC (1987 earthquake rupture) Hudnut and others, 1989 Sharp and others, 1989 Treiman, J.A., 1989b SSZ: Kane Spring

499

ELMORE RANCH FAULT AND ELMORE RANCH

EAST FAULT

HISTORIC (1987 earthquake rupture) Hudnut and others, 1989 Kahle and others, 1988 Sharp and others, 1989 Treiman, J.A., 1989b Hart and others, 1989 SSZ: Kane Spring

500

LONE TREE FAULT

HISTORIC (1987 earthquake rupture) Hudnut and others, 1989 Sharp and others, 1989 Treiman, J.A., 1989b SSZ: Kane Spring

501

POSSIBLE FAULTS AND CREEP OF BABCOCK, 1971

(Shown on Jennings, 1975 Fault Map of California) Sharp, R.V., 1982 (p. 9-early shorelines, not faults; suspected offsets not consistent)

502

BRAWLEY SEISMIC ZONE HISTORIC

Johnson and Hill, 1982

503

UNNAMED FAULTS AND LINEAMENTS LATE QUATERNARY OR HOLOCENE Heath, E.G., 1980 (p. 470, 471)

504

SUPERSTITION HILLS FAULT

HISTORIC (1987, 1979, 1968, 1951 earthquake ruptures); LATE QUATERNARY Allen and others, 1965 Fuis, G.S., 1982 (Plate 2) Grantz and Wyss, 1972 (Plate 2) Kahle and others, 1988 Sharp and others, 1986 (1981 triggered creep). Sharp and others, 1989 Treiman, J.A., 1989b Hart and others, 1991 SSZ: Superstition Mtn., Kane Spring, Brawley NW, Brawley, El Centro

505

SUPERSTITION MOUNTAIN FAULT

LATE QUATERNARY; QUATERNARY; HOLOCENE in part. Allen and others, 1972 Rockwell, T.K., 1990 (Holocene, north end) Sharp and Clark, 1972 (Fig. 35)

Treiman, J.A., 1989b (Holocene in part)

Hart and others, 1989

SSZ: Harpers Well, Plaster City NW, Superstition Mtn., Brawley NW

WIENERT FAULT

LATE QUATERNARY; HISTORIC (1987 earthquake rupture) Sharp and others, 1989 Treiman, J. A., 1989b Hart and others, 1989 SSZ: Seeley, El Centro

507

BRAWLEY FAULT ZONE

HISTORIC (1979, 1975, and 1940 earthquake ruptures; triggered creep 1968). Cohn and others, 1982 (creep) Sharp and others, 1982 Sharp, R.V., 1976 Sharp, R.V., 1982 (p. 219, triggered creep) Hart and others, 1989 SSZ: Brawley, Alamorio, Holtville West

508

RICO FAULT

HISTORIC (1979 earthquake rupture) Sharp and others, 1982 Hart and others, 1989 SSZ: Holtville West

509

IMPERIAL FAULT

HISTORIC (1979, 1966, 1940 earthquake ruptures; 1968 and 1971 triggered creep) Brune and Allen, 1967 COHN AND OTHERS, 1982 (creep) Sharp and others, 1982 Sharp, R.V., 1982 (p. 214, triggered creep) Sharp and others, 1986 (1981 triggered creep). Ulrich, F.P., 1941 Hart and others, 1989 SSZ: Brawley, El Centro, Holtville West, Calexico, Bonds Corner

510

YUHA WELLS FAULT LATE QUATERNARY Rockwell, T.K., 1990

511

LAGUNA SALADA FAULT IN CALIFORNIA HOLOCENE Hart and others, 1979 Isaac, S., 1987 Kovach and others, 1962

512

<u>CENTINELA FAULT (BAJA CALIFORNIA)</u> LATE QUATERNARY Barnard, F.L., 1968 (p. 134-136)

513

AGUA TIBIA AND UNNAMED FAULTS IN NW BAJA CALIFORNIA QUATERNARY Gastil and others, 1975 (Plate 1A; fault cuts Quaternary and Pliocene rocks) 514 <u>SAN CLEMENTE-SAN ISIDRO FAULT ZONE</u> (OFFSHORE) LATE QUATERNARY; HOLOCENE Legg, M.R., 1985 Legg and others, 1989

515

CALABASAS FAULT ZONE (BAJA CALIFORNIA) QUATERNARY; HISTORIC? Gastil and others, 1975 (p. 30) 516 LAGUNA SALADA FAULT (BAJA CALIFORNIA) HOLOCENE; HISTORIC (1892 earthquake rupture).

Barnard, F.L., 1968 (p. 129-132) Gastil and others, 1975 Mueller and Rockwell, 1990 (1892 rupture)

516A

SIERRA JUAREZ FAULT ZONE AGE? (High seismic activity; cuts Quaternary rocks at south end—see No. 526) Lomnitz and others, 1970 Gastil and others, 1979 Brune and others, 1979 (high seismic activity, p. 85)

517

BORREGO FAULT (BAJA CALIFORNIA) LATE QUATERNARY? Barnard, F.L., 1968 (p. 127-129)

518

IMPERIAL FAULT (BAJA CALIFORNIA)

HISTORIC (1940 earthquake ruptures) Gastil and others, 1975 Ulrich, F.P., 1941

519

ALGODONES FAULT

QUATERNARY

Mattick and others, 1973 (Quaternary age, p. D-36) Olmsted and others, 1973 (Fault controls ground water, p. H61-62)

520

CUCAPA FAULT (BAJA CALIFORNIA)

QUATERNARY

Barnard, F.L., 1968 (p. 121-123) Gastil and others, 1975

521

PESCADORES FAULT (BAJA CALIFORNIA) QUATERNARY Barnard, F.L., 1968 (p. 123-125)

Gastil and others, 1975

CERRO PRIETO FAULT (BAJA CALIFORNIA)

HISTORIC (1934 earthquake ruptures) Allen and others, 1965 (p. 767-768) Barnard, F.L., 1968 (p. 119-120) Gastil and others, 1975 Rockwell, T.K., 1990

523

CANON ROJO FAULT (BAJA CALIFORNIA)

HISTORIC (1892 earthquake rupture) Barnard, F.L., 1968 (p. 133, Holocene) Mueller and Rockwell, 1990 (1892 earthquake rupture)

524

VALLECITOS FAULT ZONE (BAJA CALIFORNIA) PRE-QUATERNARY

Gastil and others, 1975 (age, p. 130) Harvey, T.W., 1985

525

SAN MIGUEL FAULT ZONE (BAJA CALIFORNIA)

QUATERNARY; HISTORIC (1956 earthquake ruptures) Allen and others, 1965 (p. 769)

Gastil and others, 1975

Harvey, T.W., 1985

Shor and Roberts, 1958 (1956 San Miguel earthquake to south)

526

UNNAMED FAULTS IN BAJA CALIFORNIA (PART OF SIERRA JUAREZ FAULT ZONE?)

QUATERNARY (cuts Quaternary lake beds or alluvium) Gastil and others, 1975

527

TRES HERMANOS FAULT ZONE (BAJA CALIFORNIA)

AGE?

Gastil and others, 1975 (p. 130, prominent on high altitude photos, but hard to locate on ground)

528

FAULT NORTH END OF GULF OF CALIFORNIA

LATE QUATERNARY (Pleistocene to Recent) Merriam, R., 1965 (Pleistocene to Recent age, p. 1052)

529

AGUA BLANCA FAULT (BAJA CALIFORNIA)

HOLOCENE; HISTORIC? Gastil and others, 1979 Rockwell, T.K., 1990

530

FAULT RUPTURE, LANDERS EARTHQUAKE OF JUNE 28, 1992

HISTORIC 1992

DMG and USGS, unpublished mapping, 1992

NOTE:

The names following the abbreviation SSZ (Special Study Zone) are the quadrangles issued by the State showing the boundaries of officially zoned faults. For more information see:

Hart, E.W., 1990, Fault-rupture hazard zones in California: California Division of Mines and Geology Special Publication 42.
APPENDIX B

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APPENDIX C ALPHABETICAL LIST OF FAULTS DESCRIBED IN APPENDIX A

113 ADOBE CREEK FAULT

LATE QUATERNARY

529

AGUA BLANCA FAULT (BAJA CALIFORNIA) HOLOCENE; HISTORIC?

513 AGUA TIBIA FAULT (BAJA CALIFORNIA) QUATERNARY

250 AIRPORT LAKE FAULT ZONE HOLOCENE-LATE PLEISTOCENE

317 ALAMO THRUST QUATERNARY

519 ALGODONES FAULT QUATERNARY

56 ALMANOR FAULT QUATERNARY

130 ANTELOPE VALLEY FAULT HOLOCENE

159 ANTIOCH FAULT QUATERNARY

409 ARRASTRE CANYON NARROWS FAULT LATE QUATERNARY?

258 ARROYO DEL OSO FAULT LATE QUATERNARY

256 <u>ARROYO LAGUNA FAULT</u> LATE QUATERNARY

327 ARROYO PARIDA FAULT LATE QUATERNARY 219 ASCENCION FAULT (OFFSHORE) QUATERNARY

20 ASH CREEK FAULT ZONE QUATERNARY

246 <u>ASH HILL FAULT</u> HOLOCENE; LATE QUATERNARY

434 AVALON - COMPTON FAULT HOLOCENE; LATE QUATERNARY

107 BAD RIDGE FAULT QUATERNARY (Possibly late Pleistocene)

350 BAILEY FAULT LATE QUATERNARY

33 BALD MOUNTAIN FAULT QUATERNARY

16 BALD MOUNTAIN-BIG LAGOON FAULT ZONE (OFFSHORE) LATE QUATERNARY

452 BANNING FAULT (EASTERN PART) HOLOCENE; 1986 earthquake ruptures; 1983 creep

449 BANNING FAULT (WESTERN PART) LATE QUATERNARY; HOLOCENE

92 BARTLETT SPRINGS FAULT HOLOCENE; QUATERNARY

305 BASELINE FAULT LATE QUATERNARY

55 BATTLE CREEK FAULT LATE QUATERNARY; QUATERNARY 41 **BAY ENTRANCE FAULT** LATE QUATERNARY

89 **BEAR HARBOR FAULT ZONE** LATE QUATERNARY

168 **BEAR MOUNTAINS FAULT ZONE (BOWIE FLAT** FAULT) LATE QUATERNARY

104 **BEAR MOUNTAINS FAULT ZONE (HIGHWAY 49** LINEAMENT) LATE QUATERNARY

126

BEAR MOUNTAINS FAULT ZONE (MAIDU EAST LINEAMENT) LATE QUATERNARY?

171 BEAR MOUNTAINS FAULT ZONE (NEGRO JACK POINT FAULT) LATE QUATERNARY

127 **BEAR MOUNTAINS FAULT ZONE (RESCUE** LINEAMENT) LATE QUATERNARY

136 **BEAR MOUNTAINS FAULT ZONE (YOUNGS CREEK FAULT**) QUATERNARY

81 **BEAR RIVER FAULT ZONE** QUATERNARY

49 BEAR RIVER FAULT ZONE (OFFSHORE) QUATERNARY

54 **BEAR WALLOW FAULT** PRE-QUATERNARY

456 **BEAUMONT PLAIN FAULT ZONE** LATE QUATERNARY

221 **BEN LOMOND FAULT** LATE QUATERNARY at southern end

204 **BENTON VALLEY FAULT** HOLOCENE

195 **BERROCAL FAULT** QUATERNARY; LATE QUATERNARY in part

6 **BIG CRACK FAULT** LATE QUATERNARY

34 **BIG LAGOON FAULT** QUATERNARY

345 **BIG MOUNTAIN FAULT** QUATERNARY (Plio-Pleistocene)

318 **BIG PINE FAULT (EASTERN PART)** LATE QUATERNARY

307 **BIG PINE FAULT (WESTERN PART) PRE-QUATERNARY**

112 **BIG VALLEY FAULT** LATE QUATERNARY; HISTORIC (1906 earthquake ruptures)

172 **BLACK BUTTE FAULT** QUATERNARY

21 BLACK FOX MOUNTAIN FAULT ZONE QUATERNARY

370 **BLACKWATER FAULT** HOLOCENE: QUATERNARY

39 **BLUE LAKE FAULT** HOLOCENE

474 **BLYTHE GRABEN** LATE QUATERNARY

351 **BONEY MOUNTAIN FAULT** QUATERNARY

517 **BORREGO FAULT (BAJA CALIFORNIA)** LATE QUATERNARY?

68 BOTTLE SPRINGS FAULT QUATERNARY

406 BOWEN RANCH FAULT LATE QUATERNARY?

168 BOWIE FLAT FAULT (BEAR MOUNTAINS FAULT ZONE) LATE QUATERNARY

294 BRADLEY CANYON FAULT QUATERNARY

507

BRAWLEY FAULT ZONE HISTORIC (1979, 1975, and 1940 earthquake ruptures; triggered creep 1968).

502 BRAWLEY SEISMIC ZONE HISTORIC

86

BRICELAND FAULT QUATERNARY

133 BRIDGEPORT BASIN FAULT OF M. CLARK (IN PART ROBINSON CREEK FAULT) HOLOCENE; LATE QUATERNARY; QUATERNARY

269 BROWN MOUNTAIN FAULT HOLOCENE

471 BUCK RIDGE FAULT LATE QUATERNARY

276 <u>BUENA VISTA FAULT</u> HISTORIC, creep owing to oil withdrawal

418 BULLION FAULT HOLOCENE

193 BUTANO FAULT QUATERNARY ?

438 <u>CABRILLO FAULT</u> LATE QUATERNARY on shore; HOLOCENE offshore 515 CALABASAS FAULT ZONE (BAJA CALIFORNIA) QUATERNARY; HISTORIC?

187

CALAVERAS FAULT (CENTRAL PART) HOLOCENE; HISTORIC (minor 1979 fault break at Anderson Lake and south of Coyote Reservoir).

177 <u>CALAVERAS FAULT (NORTHERN PART)</u> HISTORIC (1861); HOLOCENE; LATE QUATERNARY

224 <u>CALAVERAS FAULT (SOUTHERN PART)</u> HISTORIC (creep); HOLOCENE; LATE QUATERNARY

223 <u>CALAVERAS FAULT (TRIGGERED SLIP)</u> HISTORIC (17 October 1989)

376 CALICO FAULT HOLOCENE

349 CAMARILLO FAULT LATE QUATERNARY

281 CAMBRIA FAULT LATE QUATERNARY

380 <u>CAMP ROCK FAULT</u> HOLOCENE; HISTORIC (1992 earthquake reuptures)

523 <u>CANON ROJO FAULT (BAJA CALIFORNIA)</u> HISTORIC (1892 earthquake rupture)

123 CAPAY FAULT PRE-QUATERNARY?

326 <u>CARPINTERIA FAULT</u> LATE QUATERNARY

128 CARSON VALLEY FAULT HOLOCENE

457 <u>CASA LOMA FAULT</u> HOLOCENE, with creep since 1939 probably owing to groundwater withdrawal 15 CASCADIA SUBDUCTION ZONE. SEAWARD EDGE OF (OFFSHORE) LATE QUATERNARY (See Note 1 on map)

295 CASMALIA FAULT LATE QUATERNARY?

4 CEDAR MOUNTAIN FAULT ZONE LATE QUATERNARY; HOLOCENE

11 CEDAR MOUNTAIN FAULT ZONE (SOUTHERN PART) LATE QUATERNARY?

512 <u>CENTINELA FAULT (BAJA CALIFORNIA)</u> LATE QUATERNARY

432 CENTRAL AVENUE FAULT LATE QUATERNARY?

522 <u>CERRO PRIETO FAULT (BAJA CALIFORNIA)</u> HISTORIC (1934 earthquake ruptures)

91C CHAMBERLAIN FAULT PRE-QUATERNARY

435 CHARNOCK FAULT LATE QUATERNARY

352 CHATSWORTH FAULT LATE QUATERNARY

377 CHEMEHUEVI GRABEN LATE QUATERNARY

441 CHERRY HILL FAULT HOLOCENE

72 CHICO MONOCLINE FAULT QUATERNARY

431 <u>CHINO FAULT</u> LATE QUATERNARY 473A CHIRIACO FAULT PRE-QUATERNARY

235 CHUPINES FAULT QUATERNARY

385 CLAMSHELL - SAWPIT CANYON FAULT ZONE LATE QUATERNARY

447 CLAREMONT FAULT HOLOCENE

459 CLARK FAULT HOLOCENE

165 <u>CLAYTON FAULT</u> QUATERNARY; LATE QUATERNARY

314 <u>CLEARWATER FAULT</u> LATE QUATERNARY

403 CLEGHORN FAULT HOLOCENE; LATE QUATERNARY

95

<u>CLEVELAND HILL FAULT</u> HISTORIC (1975 earthquake ground rupture); QUATERNARY

110 CLOVER VALLEY FAULT ZONE QUATERNARY

242 <u>CLOVIS FAULT</u> PRE-QUATERNARY

76 <u>COAST RANGE FAULT</u> PRE-QUATERNARY

70 <u>COHASSET RIDGE FAULT</u> QUATERNARY?

120 COLLAYOMI FAULT LATE QUATERNARY 429 <u>COLTON FAULT</u> LATE QUATERNARY

434 <u>COMPTON FAULT</u> HOLOCENE; LATE QUATERNARY

160 <u>CONCORD FAULT</u> HISTORIC (active creep); LATE QUATERNARY

423 <u>COPPER MOUNTAIN FAULT</u> HOLOCENE; LATE QUATERNARY

155 <u>CORDELIA FAULT</u> HOLOCENE in southern part; LATE QUATERNARY in northern part

73 CORNING FAULT QUATERNARY

489

CORONADO BANK FAULT ZONE (OFFSHORE) LATE QUATERNARY; HOLOCENE; QUATERNARY

484

CORONADO BANK - PALOS VERDES HILLS FAULT ZONE (OFFSHORE) HOLOCENE

490 CORONADO FAULT QUATERNARY

173 CORRAL HOLLOW FAULT LATE QUATERNARY

91A COTTONEVA FAULT PRE-QUATERNARY

215 COYOTE CREEK FAULT (SANTA CLARA COUNTY) QUATERNARY

479 <u>COYOTE CREEK FAULT (SAN DIEGO COUNTY)</u> HOLOCENE; HISTORIC (1968 earthquake rupture; creep).

480 <u>COYOTE CREEK FAULT? SEGMENT</u> HOLOCENE 371 COYOTE LAKE FAULT QUATERNARY?

478 COYOTE MOUNTAIN FAULT HOLOCENE; LATE QUATERNARY

428 <u>CRAFTON HILLS FAULT ZONE</u> HOLOCENE; LATE QUATERNARY

466 <u>CRISTIANITOS FAULT ZONE (OFFSHORE)</u> QUATERNARY

188 <u>CROSLEY FAULT</u> HOLOCENE (in part)

109 <u>CROSS SPRING FAULT</u> QUATERNARY (in part)

399 CUCAMONGA FAULT HOLOCENE

520 CUCAPA FAULT (BAJA CALIFORNIA) QUATERNARY

231 <u>CYPRESS POINT FAULT</u> QUATERNARY? (Offsets Quaternary deposits offshore)

7B DAVIS CREEK FAULT LATE QUATERNARY

248 DEATH VALLEY FAULT ZONE HOLOCENE; LATE QUATERNARY

210 DEEP SPRINGS FAULT HOLOCENE-LATE QUATERNARY

343 <u>DEL VALLE FAULT</u> LATE QUATERNARY?

125 DEWITT FAULT LATE QUATERNARY

64 DIAMOND MOUNTAINS FAULT QUATERNARY 317 DRY CREEK THRUST QUATERNARY

395 <u>DUARTE FAULT</u> LATE QUATERNARY; possibly HOLOCENE along northern strand near Azusa

124 DUNNIGAN HILLS (ZAMORA) FAULT HOLOCENE ?

386 EAGLE ROCK FAULT LATE QUATERNARY?

482 EARTHQUAKE VALLEY FAULT HOLOCENE

290 EAST HUASNA FAULT QUATERNARY

46 EAST TRACE LITTLE SALMON FAULT LATE QUATERNARY

138 EAST VALLEY FAULT PRE-QUATERNARY

44 EATONS ROUGH FAULT ZONE QUATERNARY

282 EDNA FAULT ZONE QUATERNARY

273 EL PASO FAULT LATE QUATERNARY

499 <u>ELMORE RANCH FAULT AND ELMORE RANCH</u> <u>EAST FAULT</u> HISTORIC (1987 earthquake rupture)

483 ELSINORE FAULT HOLOCENE; LATE QUATERNARY

496 ELSINORE FAULT (SOUTHERN PART COYOTE MOUNTAINS) HOLOCENE 420 <u>EMERSON FAULT</u> HISTORIC (1992 earthquake ruptures) HOLOCENE

91 ETSEL RIDGE FAULT QUATERNARY ?

197 EVERGREEN FAULT HOLOCENE

42 FICKLE HILL FAULT HOLOCENE

208 FISH SLOUGH FAULT HOLOCENE

7C <u>FITZHUGH CREEK FAULT</u> QUATERNARY

62 FORT SAGE FAULT HISTORIC (1950 earthquake rupture)

304 FOXEN CANYON FAULT LATE QUATERNARY

317 FRAZIER MOUNTAIN THRUST QUATERNARY

50 FRESHWATER FAULT TERTIARY

446 FRESNO FAULT LATE QUATERNARY; HOLOCENE

192 FRIJOLES FAULT HOLOCENE; LATE QUATERNARY

211 <u>FURNACE CREEK - NORTHERN DEATH</u> <u>VALLEY FAULT ZONE</u> HOLOCENE-LATE QUATERNARY

416 GALWAY LAKE FAULT HISTORIC (Ground rupture, 1975 earthquake) 79 GARBERVILLE FAULT ZONE QUATERNARY

303 GAREY FAULT QUATERNARY

274A GARLOCK FAULT CREEP HISTORIC

310 GARLOCK FAULT, SOUTH BRANCH HOLOCENE

270 GARLOCK FAULT ZONE HOLOCENE-LATE QUATERNARY

272

GARLOCK FAULT ZONE (GROUND BREAKS IN FREMONT VALLEY) HOLOCENE, HISTORIC (owing to ground water withdrawal)

274

GARLOCK FAULT ZONE (SURFACE BREAK ON) HISTORIC (1952 Arvin-Tehachapi earthquake)

454 GARNET HILL FAULT HOLOCENE

128 GENOA FAULT (ALSO CALLED CARSON VALLEY FAULT) HOLOCENE

103 GIANT GAP FAULT (MELONES FAULT ZONE OF CLARK) QUATERNARY ?

5

<u>GILLEM FAULT</u> LATE QUATERNARY; QUATERNARY

262 GILLIS CANYON FAULT HOLOCENE

402 GLEN HELEN FAULT HOLOCENE

461 GLEN IVY NORTH FAULT HOLOCENE 462 <u>GLEN IVY SOUTH FAULT</u> HOLOCENE; LATE QUATERNARY in southeastern part

253 GOLD HILL THRUST FAULT PRE-QUATERNARY

7A GOOSE LAKE FAULT (MODOC COUNTY) LATE QUATERNARY

52 GOOSE LAKE FAULT (HUMBOLDT COUNTY) HOLOCENE

404 GRASS VALLEY FAULT LATE QUATERNARY?

368 <u>GRAVEL HILLS FAULT</u> HOLOCENE

154 <u>GREEN VALLEY FAULT</u> HOLOCENE; creep

174 <u>GREENVILLE FAULT</u> LATE QUATERNARY and HISTORIC (1980 earthquake rupture)

32 GROGAN FAULT QUATERNARY

14 <u>GROGAN FAULT (OFFSHORE)</u> QUATERNARY

77 GROGAN - RED MOUNTAIN FAULT ZONE AGE ?

369 HARPER FAULT ZONE HOLOCENE

373 HARPER LAKE FAULT LATE QUATERNARY; HOLOCENE?

201 HARTLEY SPRINGS FAULT HOLOCENE; LATE QUATERNARY; QUATERNARY

29 HAT CREEK FAULT HOLOCENE

118 HATHAWAY CREEK FAULT LATE PLEISTOCENE

163

HAYWARD FAULT (NORTHERN PART) HISTORIC (1836, 1868 earthquake ruptures; creep); HOLOCENE

186 HAYWARD FAULT (SECONDARY CRACK (?) ADJACENT TO) 1868 earthquake cracks?

199

HAYWARD FAULT (SOUTHEAST EXTENSION) HOLOCENE

196 <u>HAYWARD FAULT (SOUTHERN PART)</u> HOLOCENE

142 HEALDSBURG FAULT HOLOCENE, QUATERNARY

382 HELENDALE FAULT HOLOCENE; LATE QUATERNARY

413

HELENDALE FAULT (SOUTHEAST EXTENSION) UNDIVIDED QUATERNARY

419 HIDALGO FAULT HOLOCENE; QUATERNARY

475 <u>HIDDEN SPRINGS FAULT</u> LATE QUATERNARY

104 HIGHWAY 49 LINEAMENT (BEAR MOUNTAINS FAULT ZONE) LATE QUATERNARY

202 HILTON CREEK FAULT HISTORIC (1980); HOLOCENE; QUATERNARY

392 HOLLYWOOD FAULT HOLOCENE 342 HOLSER FAULT LATE QUATERNARY?

421

HOMESTEAD VALLEY FAULT HOLOCENE; HISTORIC (1979 earthquake ruptures)

300 <u>HONDA FAULT</u> LATE QUATERNARY?

60 HONEY LAKE FAULT ZONE HOLOCENE; QUATERNARY

287 HOSGRI FAULT ZONE (OFFSHORE) QUATERNARY

476

HOT SPRINGS FAULT (IMPERIAL COUNTY) HOLOCENE

458 HOT SPRINGS FAULT (RIVERSIDE COUNTY) LATE QUATERNARY

244 HUNTER MOUNTAIN FAULT HOLOCENE-LATE QUATERNARY

122 HUNTING CREEK FAULT HOLOCENE

121 HUNTING FAULT QUATERNARY

2 IKES MOUNTAIN FAULT LATE QUATERNARY; QUATERNARY

509

IMPERIAL FAULT HISTORIC (1979, 1966, 1940 earthquake ruptures; 1968 and 1971 triggered creep)

518 IMPERIAL FAULT (BAJA CALIFORNIA) HISTORIC (1940 earthquake ruptures)

243 INDEPENDENCE FAULT LATE QUATERNARY; HOLOCENE

397 **INDIAN HILL FAULT** LATE QUATERNARY

66 **INDIAN VALLEY FAULT** HOLOCENE? (in part)

434

INGLEWOOD FAULT

HOLOCENE; LATE QUATERNARY; surface faulting (creep) since 1957 due to oil and gas withdrawal

332 JAVON CANYON FAULT HOLOCENE

7D JESS VALLEY FAULT QUATERNARY

415

JOHNSON VALLEY FAULT HOLOCENE; HISTORIC (1979, 1992 earthquake ruptures)

498

KANE SPRING FAULT LATE QUATERNARY; HISTORIC (1987 earthquake rupture)

244A **KEANE WONDER FAULT** QUATERNARY

252

KERN CANYON FAULT PRE-QUATERNARY (Undisturbed 3.5 Ma volcanic flow across fault).

264

KERN FRONT FAULT HISTORIC, actively creeping fault triggered by fluid withdrawal

265 **KERN GORGE FAULT** LATE QUATERNARY

85 KING RANGE THRUST ZONE QUATERNARY

213 **KINGS CANYON LINEAMENT** AGE?

156 **KIRBY HILL FAULT** LATE QUATERNARY? 364 KRAMER HILLS FAULT LATE QUATERNARY

493 LA NACION FAULT ZONE QUATERNARY

280 LA PANZA FAULT QUATERNARY

495 LAGUNA MEADOW FAULT QUATERNARY in part; PRE-TERTIARY in part

511 LAGUNA SALADA FAULT HOLOCENE

516 LAGUNA SALADA FAULT (BAJA CALIFORNIA) HOLOCENE; HISTORIC (1892 earthquake rupture).

78

LAKE MOUNTAIN FAULT ZONE LATE QUATERNARY

184

LAS POSITAS FAULT HOLOCENE, LATE QUATERNARY; possible 1980 and 1981 ruptures

323 LAVIGIA FAULT LATE QUATERNARY

381 LENWOOD FAULT HOLOCENE

363 LEUHMAN FAULT

QUATERNARY; LATE QUATERNARY at southeast end 26 LIKELY FAULT QUATERNARY?

337 LION CANYON FAULT LATE QUATERNARY

296 LIONS HEAD FAULT LATE QUATERNARY

108 LITTLE INDIAN VALLEY FAULT QUATERNARY

267 LITTLE LAKE FAULT HOLOCENE-LATE QUATERNARY; HISTORIC (1982 earthquake cracks)

306

LITTLE PINE FAULT LATE QUATERNARY (northwestern part); QUATERNARY and PRE-QUATERNARY (southeastern part)

47 LITTLE SALMON FAULT (AND EAST TRACE) HOLOCENE

37 LITTLE SALMON FAULT (OFFSHORE) HOLOCENE

175 LIVERMORE FAULT QUATERNARY

361 LLANO FAULT HOLOCENE?

365 LOCKHART FAULT HOLOCENE

217 LOMA PRIETA EARTHQUAKE (GROUND "FRACTURES" ASSOCIATED WITH) HISTORIC (17 October 1989)

212A LONE PINE FAULT HISTORIC (1872 earthquake); LATE QUATERNARY

500 LONE TREE FAULT HISTORIC (1987 earthquake rupture)

442 LOS ALAMITOS FAULT LATE QUATERNARY?

302 LOS ALAMOS FAULT HOLOCENE; LATE QUATERNARY

285 LOS OSOS FAULT ZONE HOLOCENE; LATE QUATERNARY 17 LOST MAN FAULT QUATERNARY

13 LOST MAN FAULT (OFFSHORE) QUATERNARY

400 LYTLE CREEK FAULT LATE QUATERNARY; QUATERNARY

114 MAACAMA FAULT ZONE (NORTHERN AND CENTRAL PARTS) HOLOCENE

141 MAACAMA FAULT ZONE (SOUTHERN PART) HOLOCENE

40 MAD RIVER FAULT HOLOCENE

36 <u>MAD RIVER FAULT ZONE (OFFSHORE)</u> HOLOCENE

71 MAGALIA FAULT QUATERNARY?

1

MAHOGANY MOUNTAIN FAULT ZONE HOLOCENE; QUATERNARY

126 MAIDU EAST LINEAMENT (BEAR MOUNTAINS FAULT ZONE) LATE QUATERNARY?

446 MAIN STREET FAULT LATE QUATERNARY; HOLOCENE

389 MALIBU COAST FAULT LATE QUATERNARY; HOLOCENE

390 MALIBU COAST FAULT (OFFSHORE) HOLOCENE

372 <u>MANIX FAULT</u> HOLOCENE; 1947 earthquake rupture 165 MARSH CREEK FAULT QUATERNARY; LATE QUATERNARY

24 MAYFIELD FAULT HOLOCENE

28 MCARTHUR FAULT HOLOCENE

43 MCKINLEYVILLE FAULT HOLOCENE

67

MEADOW VALLEY FAULT (MELONES FAULT ZONE OF CLARK) QUATERNARY

2A

MEISS LAKE FAULT LATE QUATERNARY; HOLOCENE

135 MELONES FAULT ZONE (POORMAN GULCH FAULT) LATE QUATERNARY; HOLOCENE?

169 MELONES FAULT ZONE (RAWHIDE FLAT EAST FAULT) LATE QUATERNARY; HOLOCENE?

170 MELONES FAULT ZONE (RAWHIDE FLAT WEST FAULT) LATE QUATERNARY

67 MELONES FAULT ZONE OF CLARK (MEADOW VALLEY FAULT) QUATERNARY

103 MELONES FAULT ZONE OF CLARK (GIANT GAP FAULT) QUATERNARY ?

83 MENDOCINO FAULT ZONE (OFFSHORE) HOLOCENE? LATE QUATERNARY

325 <u>MESA FAULT</u> LATE QUATERNARY 422 MESQUITE LAKE FAULT HOLOCENE

137 MIDLAND FAULT ZONE EARLY CENOZOIC

166 <u>MIDWAY FAULT</u> LATE QUATERNARY

427 MILL CREEK FAULT (NORTH BRANCH SAN ANDREAS FAULT) LATE QUATERNARY

362 <u>MIRAGE VALLEY FAULT</u> LATE QUATERNARY

487 <u>MISSION BAY FAULT</u> LATE QUATERNARY

450 MISSION CREEK FAULT HOLOCENE; LATE QUATERNARY

453

MISSION CREEK FAULT OF ALLEN (1957) HOLOCENE

182 MISSION FAULT QUATERNARY

354 MISSION HILLS FAULT LATE QUATERNARY or HOLOCENE

327 MISSION RIDGE FAULT LATE QUATERNARY

98 <u>MOHAWK VALLEY FAULT</u> LATE QUATERNARY

133 <u>MONO LAKE FAULT</u> HOLOCENE; LATE QUATERNARY; QUATERNARY

190 MONTA VISTA FAULT LATE QUATERNARY 229

MONTEREY BAY FAULT ZONE (OFFSHORE) HOLOCENE; QUATERNARY

156 MONTEZUMA HILLS FAULT LATE QUATERNARY?

322 MORE RANCH FAULT LATE QUATERNARY

451 MORONGO VALLEY FAULT HOLOCENE; LATE QUATERNARY

3 MOUNT HEBRON FAULT ZONE LATE QUATERNARY?

374 MT. GENERAL FAULT HOLOCENE in part

468 MURRIETA HOT SPRINGS FAULT LATE QUATERNARY; HOLOCENE?

117 NAVARRO STRUCTURAL DISCONTINUITY (OFFSHORE) AGE?

232 NAVY FAULT QUATERNARY

171 NEGRO JACK POINT FAULT (BEAR MOUNTAINS FAULT ZONE) LATE QUATERNARY

26A NELSON CORRAL FAULT LATE QUATERNARY?

264 <u>NEW HOPE FAULT</u> HISTORIC, actively creeping fault triggered by fluid withdrawal

439 NEWPORT - INGLEWOOD FAULT ZONE (SOUTH BRANCH FAULT) LATE QUATERNARY

465 NEWPORT-INGLEWOOD-ROSE CANYON FAULT ZONE (OFFSHORE) QUATERNARY 440 NORTH BRANCH FAULT (NEWPORT -INGLEWOOD FAULT ZONE) HOLOCENE

427 NORTH BRANCH SAN ANDREAS FAULT (MILL CREEK FAULT) LATE QUATERNARY

407 NODTU

NORTH FRONTAL FAULT ZONE (OF SAN BERNARDINO MOUNTAINS) LATE QUATERNARY; HOLOCENE

367 NORTH LOCKHART FAULT LATE QUATERNARY

45 NORTH SPIT FAULT QUATERNARY

102 NORTH TAHOE FAULT HOLOCENE

211 NORTHERN DEATH VALLEY - FURNACE CREEK FAULT ZONE HOLOCENE-LATE QUATERNARY

353 NORTHRIDGE HILLS FAULT LATE QUATERNARY or HOLOCENE

443 NORWALK FAULT? AGE?

241 <u>NUNEZ FAULT</u> HISTORIC, 1983 earthquake break

226 <u>O'NEILL FAULT SYSTEM</u>

LATE QUATERNARY

335 <u>OAK RIDGE FAULT (ONSHORE AND</u> <u>OFFSHORE)</u> LATE QUATERNARY; HOLOCENE south of Fillmore and offshore

259 OCEANIC FAULT LATE QUATERNARY 288 OCEANO FAULT LATE QUATERNARY

492 OLD TOWN FAULT LATE QUATERNARY?

414 OLD WOMAN SPRINGS FAULT HOLOCENE

296A ORCUTT OIL FIELD FAULTS QUATERNARY; LATE QUATERNARY

405 ORD MOUNTAINS FAULT HOLOCENE

233 ORD TERRACE FAULT QUATERNARY?

214 ORTIGALITA FAULT HOLOCENE

435 OVERLAND AVENUE FAULT LATE QUATERNARY

212

OWENS VALLEY FAULT HOLOCENE; HISTORIC (1872 earthquake ground rupture).

308 OZENA FAULT QUATERNARY

301 <u>PACIFICO FAULT</u> LATE QUATERNARY?

227 <u>PAICINES FAULT</u> HOLOCENE; LATE QUATERNARY

359 PALLET CREEK SITE ON SAN ANDREAS FAULT HOLOCENE

230 PALO COLORADO FAULT (OFFSHORE AND ONSHORE) QUATERNARY ? 437 <u>PALOS VERDES FAULT (ALSO KNOWN AS</u> <u>PALOS VERDES HILLS FAULT)</u> LATE QUATERNARY; HOLOCENE offshore, in part

484 PALOS VERDES HILLS-CORONADO BANK FAULT ZONE (OFFSHORE) HOLOCENE

247 <u>PANAMINT VALLEY FAULT</u> HOLOCENE; LATE QUATERNARY; QUATERNARY

69 <u>PARADISE FAULT</u> QUATERNARY?

201 <u>PARKER LAKE FAULT (SILVER LAKE FAULT)</u> HOLOCENE; LATE QUATERNARY; QUATERNARY

463 <u>PELICAN HILL FAULT</u> LATE QUATERNARY

315 <u>PELONA FAULT</u> QUATERNARY

445 <u>PERALTA HILLS FAULT</u> LATE QUATERNARY; HOLOCENE?

521 <u>PESCADORES FAULT (BAJA CALIFORNIA)</u> QUATERNARY

82 PETROLIA THRUST QUATERNARY

191 PILARCITOS FAULT

319 <u>PINE MOUNTAIN FAULT</u> LATE QUATERNARY

494 <u>PINE VALLEY FAULT</u> PRE TERTIARY?

161 <u>PINOLE FAULT</u> PRE-QUATERNARY 425 <u>PINTO MOUNTAIN FAULT</u> HOLOCENE; LATE QUATERNARY

378 PISGAH FAULT HOLOCENE

336 <u>PITAS POINT - VENTURA FAULT (OFFSHORE)</u> HOLOCENE

27 <u>PITTVILLE FAULT</u> LATE QUATERNARY; HOLOCENE

176 PLEASANTON FAULT HOLOCENE

309 <u>PLEITO FAULT</u> HOLOCENE; LATE QUATERNARY

488 <u>POINT LOMA FAULT ZONE</u> LATE QUATERNARY

148 POINT REYES FAULT (OFFSHORE) QUATERNARY

263

<u>POND FAULT</u> HISTORIC, with creep caused by groundwater withdrawal

135 <u>POORMAN GULCH FAULT (MELONES FAULT</u> <u>ZONE)</u> LATE QUATERNARY; HOLOCENE?

434 <u>POTRERO FAULT</u> HOLOCENE; LATE QUATERNARY

264 <u>PREMIER FAULT</u> HISTORIC, actively creeping fault triggered by fluid withdrawal

225 QUIEN SABE FAULT HOLOCENE; LATE QUATERNARY

169 RAWHIDE FLAT EAST FAULT (MELONES FAULT ZONE) LATE QUATERNARY; HOLOCENE? 170 RAWHIDE FLAT WEST FAULT (MELONES FAULT ZONE) LATE QUATERNARY

394 <u>RAYMOND FAULT</u> HOLOCENE

74 RED BLUFF FAULT PRE-QUATERNARY

398 <u>RED HILL-ETIWANDA AVENUE FAULT</u> LATE QUATERNARY except HOLOCENE at eastern end

261 RED HILLS FAULT HOLOCENE

331 <u>RED MOUNTAIN FAULT (VENTURA COUNTY)</u> LATE QUATERNARY

77 <u>RED MOUNTAIN FAULT (TRINITY COUNTY)</u> AGE?

436 <u>REDONDO CANYON FAULT (OFFSHORE)</u> HOLOCENE

127 RESCUE LINEAMENT (BEAR MOUNTAINS FAULT ZONE) LATE QUATERNARY

441 RESERVOIR HILL FAULT HOLOCENE

106 RESORT FAULT ZONE QUATERNARY

429 <u>RIALTO - COLTON FAULT</u> LATE QUATERNARY

68 RICH BAR FAULT AT MEADOW VALLEY (BOTTLE SPRINGS FAULT) QUATERNARY

508 <u>RICO FAULT</u> HISTORIC (1979 earthquake rupture) 325 RINCON CREEK FAULT LATE QUATERNARY

239 RINCONADA FAULT (NORTHERN PART) LATE QUATERNARY

157 RIO VISTA FAULT QUATERNARY?

133 ROBINSON CREEK FAULT (IN PART BRIDGEPORT BASIN FAULT OF M. CLARK) HOLOCENE; LATE QUATERNARY; QUATERNARY

30A ROCKY LEDGE FAULT HOLOCENE

149 RODGERS CREEK FAULT HOLOCENE

379 <u>RODMAN FAULT</u> QUATERNARY

491 ROSE CANYON FAULT HOLOCENE; LATE QUATERNARY

90

ROUND VALLEY FAULT (NORTHERN COAST RANGES) QUATERNARY

207

ROUND VALLEY FAULT (NW OF BISHOP) HOLOCENE

80

RUSS FAULT ZONE LATE QUATERNARY, QUATERNARY

48 RUSS FAULT ZONE (OFFSHORE) LATE QUATERNARY

53 SALT CREEK FAULT PRE-QUATERNARY

360 <u>SAN ANDREAS FAULT</u> 1812 EARTHQUAKE RUPTURE? 240 SAN ANDREAS FAULT HOLOCENE; HISTORIC (creep)

477 SAN ANDREAS FAULT (AT BOMBAY BEACH AND VICINITY) HOLOCENE; LATE QUATERNARY

162

SAN ANDREAS FAULT (BOUNDARY FAULTS) LATE QUATERNARY

277

SAN ANDREAS FAULT. WALLACE CREEK SITE HOLOCENE

147

SAN ANDREAS FAULT ZONE (BODEGA HEAD TO BOLINAS) HISTORIC (1906 earthquake rupture); HOLOCENE

311

SAN ANDREAS FAULT ZONE (CUYAMA TO PALMDALE) HISTORIC (1857, 1916 earthquake ruptures)

119

SAN ANDREAS FAULT ZONE (FORT ROSS TO MANCHESTER) HISTORIC (1906 earthquake rupture); LATE QUATERNARY

472

SAN ANDREAS FAULT ZONE (INDIO TO SALTON SEA) HOLOCENE; HISTORIC (1979, 1968 ground ruptures)

145

SAN ANDREAS FAULT ZONE (OFFSHORE) LATE QUATERNARY

358

SAN ANDREAS FAULT ZONE (PALMDALE TO CAJON) HISTORIC (1857 earthquake rupture)

278

SAN ANDREAS FAULT ZONE (PRIEST VALLEY TO CUYAMA) HISTORIC (1857, 1901, 1906, 1922, 1966 earthquake ruptures)

194 <u>SAN ANDREAS FAULT ZONE (SAN FRANCISCO</u> <u>TO WATSONVILLE)</u> HISTORIC (1906, 1838 earthquake ruptures); HOLOCENE 234

SAN ANDREAS FAULT ZONE (SAN JUAN BAUTISTA TO PRIEST VALLEY) HISTORIC (1906, 1890 earthquake ruptures)

87

SAN ANDREAS FAULT? (AT SHELTER COVE) HISTORIC (1906 earthquake ruptures?)

116

SAN ANDREAS FAULT (SPLAYS OFF OF) LATE QUATERNARY

178

SAN BRUNO FAULT (EXTENSION OF) NO EVIDENCE OF QUATERNARY AGE

340

SAN CAYETANO FAULT HOLOCENE; LATE QUATERNARY

485

SAN CLEMENTE FAULT (OFFSHORE) LATE QUATERNARY; HISTORIC? (1951 earthquake)

514

SAN CLEMENTE-SAN ISIDRO FAULT ZONE (OFFSHORE) LATE QUATERNARY; HOLOCENE

486 SAN DIEGO TROUGH FAULT (OFFSHORE) HOLOCENE

356

SAN FERNANDO FAULT HISTORIC (1971 earthquake ruptures)

384

SAN GABRIEL FAULT (EASTERN PART) QUATERNARY

316

SAN GABRIEL FAULT (WESTERN PART) LATE QUATERNARY; HOLOCENE near Castaic

426

SAN GORGONIO MOUNTAIN FAULT LATE QUATERNARY

455 SAN GORGONIO PASS FAULT ZONE HOLOCENE

448 SAN GORGONIO PASS FAULT ZONE (WESTERN EXTENSION) LATE QUATERNARY 218 SAN GREGORIO FAULT HOLOCENE; creep

401

SAN JACINTO FAULT HOLOCENE; LATE QUATERNARY

200

SAN JOAQUIN FAULT LATE QUATERNARY

396

SAN JOSE FAULT (LOS ANGELES COUNTY) LATE QUATERNARY

324 SAN JOSE FAULT (SANTA BARBARA COUNTY) LATE QUATERNARY

279 <u>SAN JUAN FAULT</u> QUATERNARY

283 SAN LUIS BAY FAULT LATE QUATERNARY

525 SAN MIGUEL FAULT ZONE (BAJA CALIFORNIA)

QUATERNARY; HISTORIC (1956 earthquake ruptures)

284

SAN MIGUELITO FAULT PRE-QUATERNARY

436A

SAN PEDRO BASIN FAULT ZONE (OFFSHORE) LATE QUATERNARY?

386 SAN RAFAEL FAULT LATE QUATERNARY?

255 SAN SIMEON FAULT HOLOCENE

412 SANTA ANA FAULT (SAN BERNARDINO COUNTY) QUATERNARY

329 SANTA ANA FAULT (VENTURA COUNTY) LATE QUATERNARY 334A SANTA CATALINA RIDGE FAULT ZONE (OFFSHORE) LATE QUATERNARY?

334A SANTA CRUZ-SANTA CATALINA RIDGE FAULT ZONE (OFFSHORE) LATE QUATERNARY?

334 SANTA CRUZ ISLAND FAULT LATE QUATERNARY, HOLOCENE

341 SANTA FELICIA FAULT LATE QUATERNARY?

297 SANTA LUCIA BANK FAULT (OFFSHORE) QUATERNARY

293 SANTA MARIA FAULT QUATERNARY

304 SANTA MARIA RIVER FAULT LATE QUATERNARY

391 SANTA MONICA FAULT LATE QUATERNARY

346 SANTA ROSA FAULT (ALSO KNOWN AS SIMI FAULT) LATE QUATERNARY

333 SANTA ROSA ISLAND FAULT LATE QUATERNARY

344 <u>SANTA SUSANA FAULT</u> LATE QUATERNARY; HISTORIC (1971 rupture accompanying San Fernando earthquake)

320 SANTA YNEZ FAULT LATE QUATERNARY; HOLOCENE near Lake Cachuma

321 SANTA YNEZ FAULT. SOUTH BRANCH LATE QUATERNARY 299 SANTA YNEZ RIVER FAULT LATE QUATERNARY?

222 SARGENT FAULT HOLOCENE

385 SAWPIT CANYON FAULT ZONE LATE QUATERNARY

441 SEAL BEACH FAULT HOLOCENE

181 <u>SEAL COVE FAULT</u> HOLOCENE; LATE QUATERNARY; creep

179 <u>SERRA FAULT ZONE</u> LATE QUATERNARY

216 SHANNON FAULT QUATERNARY

328 SHEPARD MESA FAULT LATE QUATERNARY

164

SHERBURNE HILLS FAULT QUATERNARY

516A <u>SIERRA JUAREZ FAULT ZONE (BAJA</u> <u>CALIFORNIA)</u> AGE? (High seismic activity cuts Quaternary rocks at south end - -see No. 526)

357 <u>SIERRA MADRE FAULT</u> HOLOCENE; LATE QUATERNARY

266 <u>SIERRA NEVADA FAULT (INYOKERN AREA)</u> HOLOCENE; LATE QUATERNARY

249 <u>SIERRA NEVADA FAULT ZONE (HAIWEE</u> <u>RESERVOIR AREA)</u> HOLOCENE; LATE QUATERNARY

198 SILVER CREEK FAULT QUATERNARY
201

SILVER LAKE FAULT (PARKER LAKE FAULT) HOLOCENE; LATE QUATERNARY; QUATERNARY

414 SILVER REEF FAULT HOLOCENE

493A SILVER STRAND FAULT QUATERNARY

346 SIMI FAULT (ALSO KNOWN AS SANTA ROSA FAULT) LATE QUATERNARY

408 <u>SKY HI RANCH FAULT</u> HOLOCENE

131 SLINKARD VALLEY FAULT LATE QUATERNARY

153 SODA CREEK FAULT LATE QUATERNARY

439 SOUTH BRANCH FAULT (NEWPORT -INGLEWOOD FAULT ZONE) LATE QUATERNARY

291 SOUTH CUYAMA FAULT QUATERNARY

365 SOUTH LOCKHART FAULT HOLOCENE

254 <u>SOUTHWEST FRACTURE ZONE OF SAN</u> <u>ANDREAS FAULT</u> HISTORIC (1966 San Andreas fault earthquake)

490A SPANISH BIGHT FAULT QUATERNARY

105 SPENCEVILLE FAULT LATE QUATERNARY; HOLOCENE?

348 SPRINGVILLE FAULT LATE QUATERNARY? 383 <u>SQUAW PEAK FAULT</u> PRE-QUATERNARY

22 <u>STEPHENS PASS FAULT</u> HISTORIC (1978 earthquake rupture)

93 <u>STONY CREEK FAULT</u> LATE QUATERNARY

504 <u>SUPERSTITION HILLS FAULT</u> HISTORIC (1987, 1979, 1968 earthquake ruptures); LATE QUATERNARY

505 <u>SUPERSTITION MOUNTAIN FAULT</u> LATE QUATERNARY; QUATERNARY; HOLOCENE in part.

237 <u>SUR FAULT</u> QUATERNARY

292 SUR-NACIMIENTO FAULT OF VEDDER. HOWELL. AND MCLEAN PRE-QUATERNARY

7

SURPRISE VALLEY FAULT HOLOCENE-LATE QUATERNARY

18

SURPUR CREEK FAULT QUATERNARY

96 <u>SWAIN RAVINE FAULT (ORANGE ROAD SITE)</u> LATE QUATERNARY

493 SWEETWATER FAULT QUATERNARY

351 SYCAMORE CANYON FAULT QUATERNARY

268 <u>TANK CANYON FAULT</u> HOLOCENE

494 THING VALLEY FAULT PRE TERTIARY? 446 <u>TIN MINE FAULT</u> LATE QUATERNARY; HOLOCENE

150 TOLAY FAULT QUATERNARY?

245 TOWNE PASS FAULT HOLOCENE-LATE QUATERNARY

527 TRES HERMANOS FAULT ZONE (BAJA CALIFORNIA) AGE?

38 TRINIDAD FAULT HOLOCENE

35 TRINIDAD FAULT (OFFSHORE) LATE QUATERNARY

236 <u>TULARCITOS FAULT</u> QUATERNARY; LATE QUATERNARY (in part)

410 TUNNEL RIDGE FAULT LATE QUATERNARY?

114A <u>TWO ROCK FAULT</u> PRE-QUATERNARY

156 VACA FAULT LATE QUATERNARY?

524 VALLECITOS FAULT ZONE (BAJA CALIFORNIA) PRE-QUATERNARY

336 VENTURA FAULT (PITAS POINT - VENTURA FAULT) HOLOCENE

387 VERDUGO FAULT HOLOCENE; LATE QUATERNARY

228 VERGELES FAULT LATE QUATERNARY; HOLOCENE 167 VERNALIS FAULT QUATERNARY?

183 VERONA FAULT HOLOCENE?

277 WALLACE CREEK SITE ON SAN ANDREAS FAULT HOLOCENE

61 WARM SPRINGS VALLEY FAULT HOLOCENE

411 WATERMAN CANYON FAULT LATE QUATERNARY

417 WEST CALICO FAULT HOLOCENE

289 <u>WEST HUASNA FAULT</u> LATE QUATERNARY

152 WEST NAPA FAULT HOLOCENE in southern part; LATE QUATERNARY in northern part

139 WEST VALLEY FAULT PRE-QUATERNARY

132 WEST WALKER RIVER FAULT HOLOCENE; LATE QUATERNARY

88 WHALE GULCH FAULT LATE QUATERNARY

275 WHEELER RIDGE FAULT HOLOCENE; LATE QUATERNARY

260 WHITE CANYON FAULT HOLOCENE

204 WHITE MOUNTAINS FAULT ZONE (NORTHERN PART) HOLOCENE 209 WHITE MOUNTAINS FAULT ZONE (SOUTHERN PART) HOLOCENE

275A WHITE WOLF FAULT HISTORIC (1952)

444 WHITTIER FAULT LATE QUATERNARY; HOLOCENE

506

WIENERT FAULT LATE QUATERNARY; HISTORIC (1987 earthquake rupture)

460

WILDOMAR FAULT HOLOCENE

467 <u>WILLARD FAULT</u> LATE QUATERNARY; HOLOCENE

185 WILLIAMS FAULT LATE QUATERNARY?

31 WILLOW SPRINGS FAULT Not HOLOCENE as earlier published (Sanborn, 1960)

75 <u>WILLOWS FAULT ZONE</u> PRE-QUATERNARY 286 WILMER AVENUE FAULT LATE QUATERNARY; HOLOCENE?

469 WOLF VALLEY FAULT HOLOCENE; LATE QUATERNARY

51 YAGER FAULT HOLOCENE

12 YELLOW BUTTE FAULT QUATERNARY

136 YOUNGS CREEK FAULT (BEAR MOUNTAINS FAULT ZONE) QUATERNARY

510 YUHA WELLS FAULT LATE QUATERNARY

124 ZAMORA FAULT (DUNNIGAN HILLS) HOLOCENE ?

220 <u>ZYANTE FAULT</u> HOLOCENE; LATE QUATERNARY; QUATERNARY

APPENDIX D

ALIGNED SEISMIC ACTIVITY ON SPECIFIC FAULTS

Most of the aligned epicenter data have been extracted from a 1:750,000 scale print-out map prepared by the California Division of Mines and Geology based on data for California earthquakes 1969-1988, M>2, of a and b quality. The data for northern California are from the U.S. Geological Survey and for southern California from the California Institute of Technology/U.S. Geological Survey networks. Additional references for specific faults are listed below.

(For complete references see Appendix B)

S-1

MENDOCINO FAULT (OFFSHORE)

Bolt, Lomnitz and McEvilly, 1968 Hill and Eaton, J., 1987 (Fig. 3) Cockerham and others, 1989a Smith and Knapp, 1980 Couch, R., 1980

S-1A

GORDA PLATE NE FAULT (AFTERSHOCKS OF 1980 M7.2 EUREKA EARTHQUAKE)

Hill and others, 1990 (Fig. 5.4 and 5.5; text p. 143 and 145) Hill and Eaton, J., 1987 (Fig. 3) Heaton and Hartzell, 1986 Shedlock and Weaver, 1990

S-2

LAKE TAHOE-LASSEN PEAK TREND

Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.4)

S-3

MAACAMA FAULT

Pampeyan and others, 1981 (p. 1 and p. 3 ---Seismicity map from F.W. Lester) Eberhart-Phillips, D., 1988 (p. 195) Hill and Eaton, J., 1987 (Fig.3) Eaton, J., 1986 Ellsworth, W., 1989 Hill and others, 1990 (p.124 and Fig. 5.4)

S-4

BARTLETT SPRINGS FAULT

Dehlinger and Bolt, 1984 Eaton, J., 1986 Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (p. 124 and Fig. 5.4)

S-5

<u>CLEVELAND HILL FAULT</u> Lahr and others, 1976

S-6

TRUCKEE AREA

Greensfelder, R., 1968

S-7

HEALDSBURG-RODGERS CREEK FAULT

Eaton, J., 1986 Hill and Eaton, J., 1987 (Fig. 3) Pampeyan and others, 1981 (Seismicity map from F.W. Lester, p. 3) Hill and others, 1990 (p. 124 and Fig. 5.4)

S-8

<u>GREEN VALLEY FAULT</u> Eberhart-Phillips, D., 1988 Hill and Eaton, J., 1987 Hill and others, 1990 (p. 124 and Fig. 5.4)

S-9

CONCORD FAULT Eaton, J., 1986 Hill and Eaton, J., 1987 (Fig. 3)

S-10

HAYWARD FAULT

Eaton, J., 1986 Hill and Eaton, J., 1987 (Fig. 3) Cockerham and others, 1989b Ellsworth and others, 1982

S-11

MISSION FAULT

Eaton J., 1986

Hill and Eaton, J., 1987 (Fig. 3) Ellsworth and others, 1982

S-12

MARSH CREEK-GREENVILLE FAULT Eaton, J., 1986 Hill and Eaton, J., 1987 (Fig. 3)

Ellsworth and others, 1982

S-12A

MARSH CREEK-GREENVILLE FAULT NORTHERN EXTENSION? Hill and others, 1990 (Fig. 5.4) Hill and Eaton, J., 1987 (Fig. 3)

S-13

SAN ANDREAS FAULT (CENTRAL PARTS) Hill and Eaton, J., 1987 (Fig. 3) Cockerham and others, 1989b Ellsworth and others, 1982

S-13A

SAN ANDREAS FAULT (LOMA PRIETA SECTOR) U.S. Geological Survey Staff, 1990 Cockerham and others, 1989b

S-14

UNNAMED N-S FAULT BETWEEN CALAVERAS AND GREENVILLE FAULTS

Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.4)

S-15

CALAVERAS FAULT

Urhammer and Darragh, 1984 Hill and Eaton, J., 1987 (Fig. 3) Bakun, W.H., 1980 Michael, A.J., 1988

S-16

SARGENT FAULT

Hill and Eaton, J., 1987 (Fig. 3)

S-17

SAN GORGORIO FAULT (OFFSHORE) Cockerham and others, 1989b Greene and others, 1973

S-18

QUIEN SABE FAULT

Hill and others, 1990 (Fig. 5.6)

S-19

ORTIGALITA FAULT

Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.4)

S-20

NACIMIENTO FAULT ZONE Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.4)

S-21

UNNAMED SOUTHERN SIERRA NEVADA SEISMIC ZONE

Jones and Dollar, 1986 Hill and Eaton, J., 1987 (Fig. 3) Hill and Others, 1990 (Fig. 5.4 and text p. 143)

S-22

GARLOCK FAULT Astiz and Allen, 1983 Hill and Eaton, J., 1987 (Fig. 3)

S-23

SAN ANDREAS FAULT (CAJON PASS - LEONA VALLEY)

Hill and Eaton, J., 1987 (Fig. 3)

S-24

OAK RIDGE FAULT (OFFSHORE) Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig 5.4)

Ziony and Jones, 1989 (p. 6)

S-25

SANTA CRUZ-SANTA CATALINA RIDGE FAULT ZONE (OFFSHORE)

Hill and Eaton, J., 1987 (Fig. 3) Ziony and Jones, 1989 (Fig. 3, p. 21) (p. 3, 1981 Santa Barbara Is. earthquake and aftershocks)

S-26

NEWPORT-INGLEWOOD FAULT ZONE

Ziony and Jones, 1989 Hill and Eaton, J., 1987 (Fig. 3) Hauksson, E., 1987 Hill and others, 1990

S-27

WHITTIER FAULT Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.9)

S-28

WHITTIER-ELSINORE FAULT

Ziony and Jones, 1989 (p. 1)

Hill and Eaton, J., 1987 (Fig. 3) Allison and others, 1978 (Agua Caliente Springs area) Ziony and Jones, 1989

S-29

SAN JACINTO FAULT ZONE (INCLUDING CASA LOMA, CLARK, AND BUCK RIDGE FAULTS)

Hill and Eaton, J., 1987 (Fig. 3) Kanamori and Magistrale, 1989 Nicholson and others, 1986

S-30

COYOTE CREEK FAULT

Hamilton, R.M., 1972 Kanamori and Magistrale, 1989

S-31

SUPERSTITION MOUNTAIN FAULT

Magistrale and others, 1989 (see Fig. 2— 1980-1986 events)

S-32

SOUTHERNMOST SEGMENT OF SAN ANDREAS FAULT?

Hill and Eaton, J., 1987 (Fig. 3) Hill and others, 1990 (Fig. 5.10)

S-33

NE LINEATION OF HYPOCENTERS FROM SUPERSTITION HILLS FAULT TO BRAWLEY SEISMIC ZONE

Magistrale and others, 1989 (Fig. 3, p. 241)

S-34

BRAWLEY SEISMIC ZONE

Johnson and Hill, 1982 Hill and Eaton, J., 1987 (Fig. 3)

S-35

BRAWLEY FAULT

Johnson and Hadley, 1976 (for north end) Johnson and Hutton, 1982 Hill and Eaton, J., 1987 (Fig 3)

S-36

IMPERIAL FAULT

Hill and Eaton, J., 1987 (Fig. 3)