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Permanent Ground Movement Associated with the 1992 M=7 Cape Mendocino Earthquake

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Earthquake Elevation Change (meters)

1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4

Faults mapped by McLaughlin et al., *USGS Map*, 1994

Thrust Fault modeled to have slipped 4 meters during the earthquake

Leveling Bench Marks surveyed in 1992 by the National Geodetic Survey

Leveling Bench Marks surveyed pre- and post-Earthquake

Disturbed, Unstable, or Subsiding Leveling Bench Marks

Global Positioning System Monuments occupied pre- and post-Earthquake by the U.S. Geological Survey

Sites where coastal uplift was measured [Carver et al., *Geology*, 1994]

Landslide, Soil Slump, or Rockfall

Slump

Tension Crack or Ridge Spreading

Liquefaction

Road Cracking

Earthflow

This map was funded by the Federal Emergency Management Agency, California State Office of Emergency Services, and the County of Humboldt. This report is preliminary, and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade, product or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government. Base map is a vectorized scan of the Cape Mendocino, Eureka, and Garberville 1:100,000-scale metric U.S.G.S. quadrangles.

Cascadia Megathrust

1992

1991

Earthquake Magnitude

M=7
M=6
M=5
M=4
M=1

Eureka
Fortuna
Ferndale
Rohnerville
Rio Dell
Scotia
Petrolia
Honeydew
Garberville

LV0250
LV0243
LV0217
LV0234
LV0668
LV0667
LV0362
LV0433
LV0672
LV0402
LV0429
LV0366
LV1250
LV1249
LV1241
LU1485
LU1482
LU1304
LU1302
LU1301
LU1291
LU1280
LU1290

CALIFORNIA

0 10 20
kilometers

40° 40'
40° 30'
40° 20'
40° 10'
124° 30'
124° 20'
124° 10'
124°
123° 50'