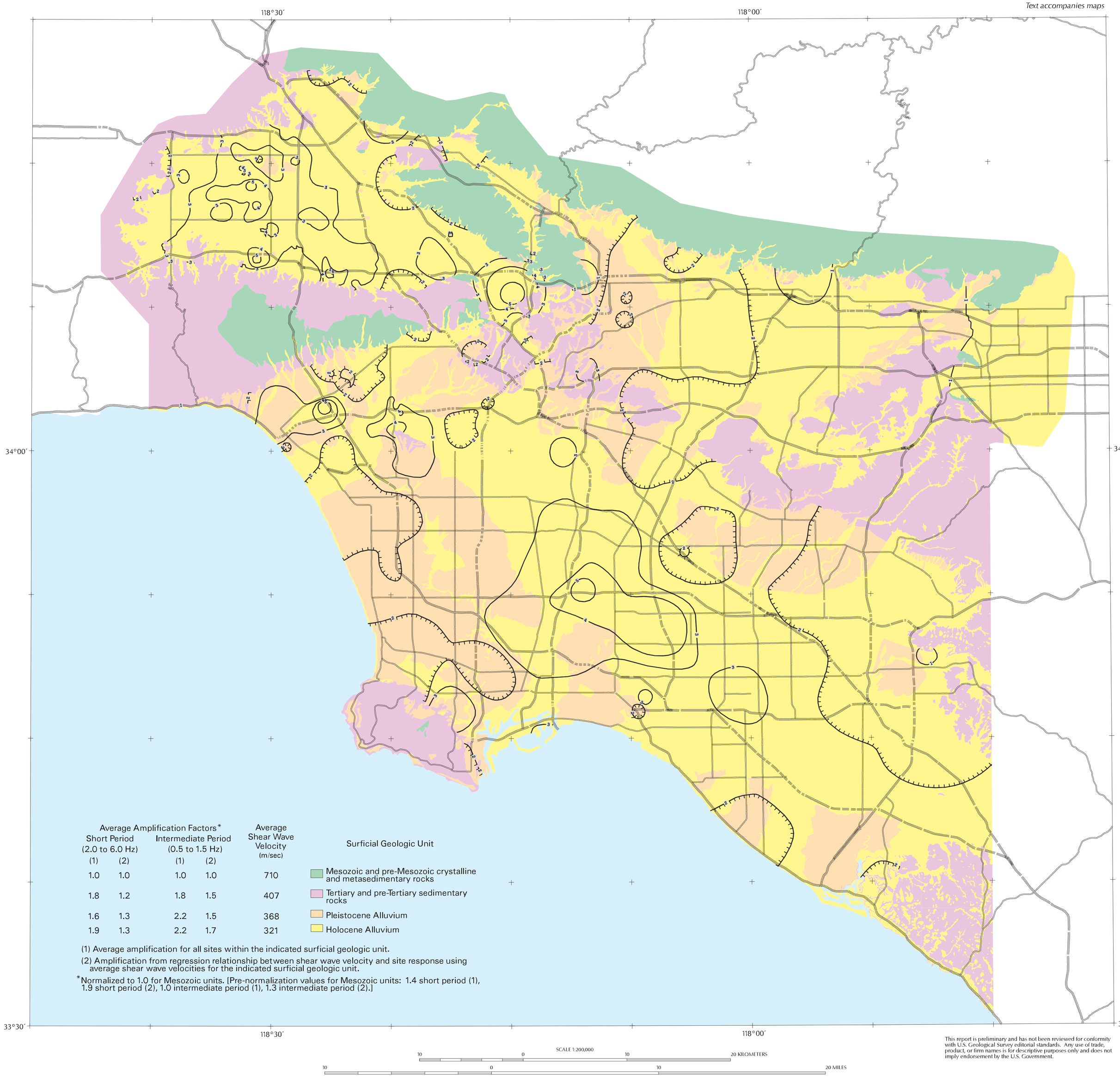
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 96-723
PLATE 1 OF 2
Text accompanies maps



Average Amplification Factors* Short Period (2.0 to 6.0 Hz) (1)	(2)	Intermediate Period (0.5 to 1.5 Hz) (1)	(2)	Average Shear Wave Velocity (m/sec)	Surficial Geologic Unit
1.0	1.0	1.0	1.0	710	Mesozoic and pre-Mesozoic crystalline and metasedimentary rocks
1.8	1.2	1.8	1.5	407	Tertiary and pre-Tertiary sedimentary rocks
1.6	1.3	2.2	1.5	368	Pleistocene Alluvium
1.9	1.3	2.2	1.7	321	Holocene Alluvium

(1) Average amplification for all sites within the indicated surficial geologic unit.

(2) Amplification from regression relationship between shear wave velocity and site response using average shear wave velocities for the indicated surficial geologic unit.

*Normalized to 1.0 for Mesozoic units. [Pre-normalization values for Mesozoic units: 1.4 short period (1), 1.9 short period (2), 1.0 intermediate period (1), 1.3 intermediate period (2).]

SCALE 1:200,000

10 0 10 20 KILOMETERS

10 0 10 20 MILES

Universal Transverse Mercator Projection, Zone 11

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SITE-RESPONSE MAPS FOR THE LOS ANGELES REGION BASED ON EARTHQUAKE GROUND MOTIONS 0.5–1.5 HZ

By

S. Hartzell, S. Harmsen, A. Frankel, D. Carver, E. Cranswick, M. Meremonte, and J. Michael

1996