

LOS ANGELES BASIN EARTHQUAKES

1977-1989 Thrust Focal Mechanisms $M \geq 2.5$

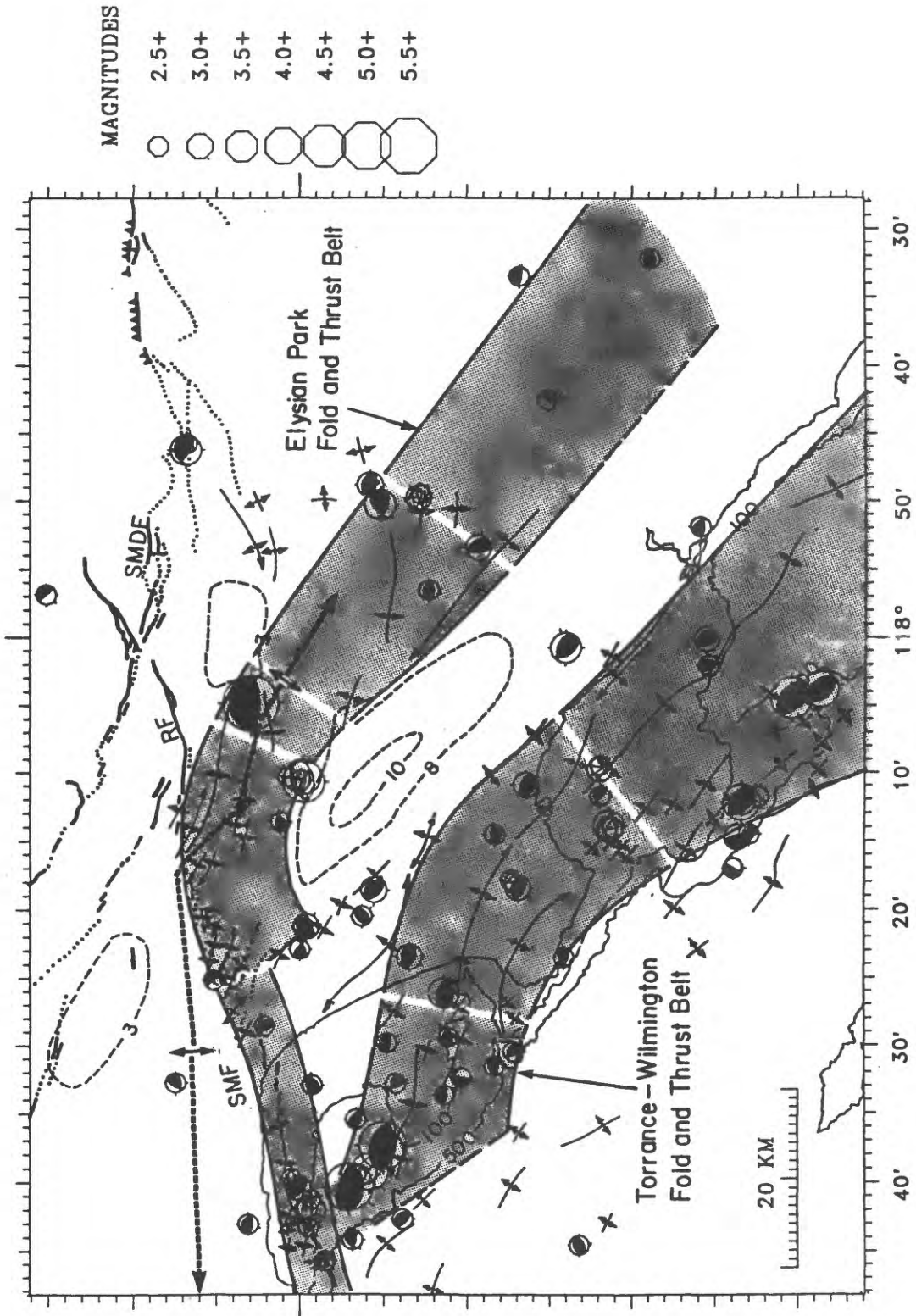
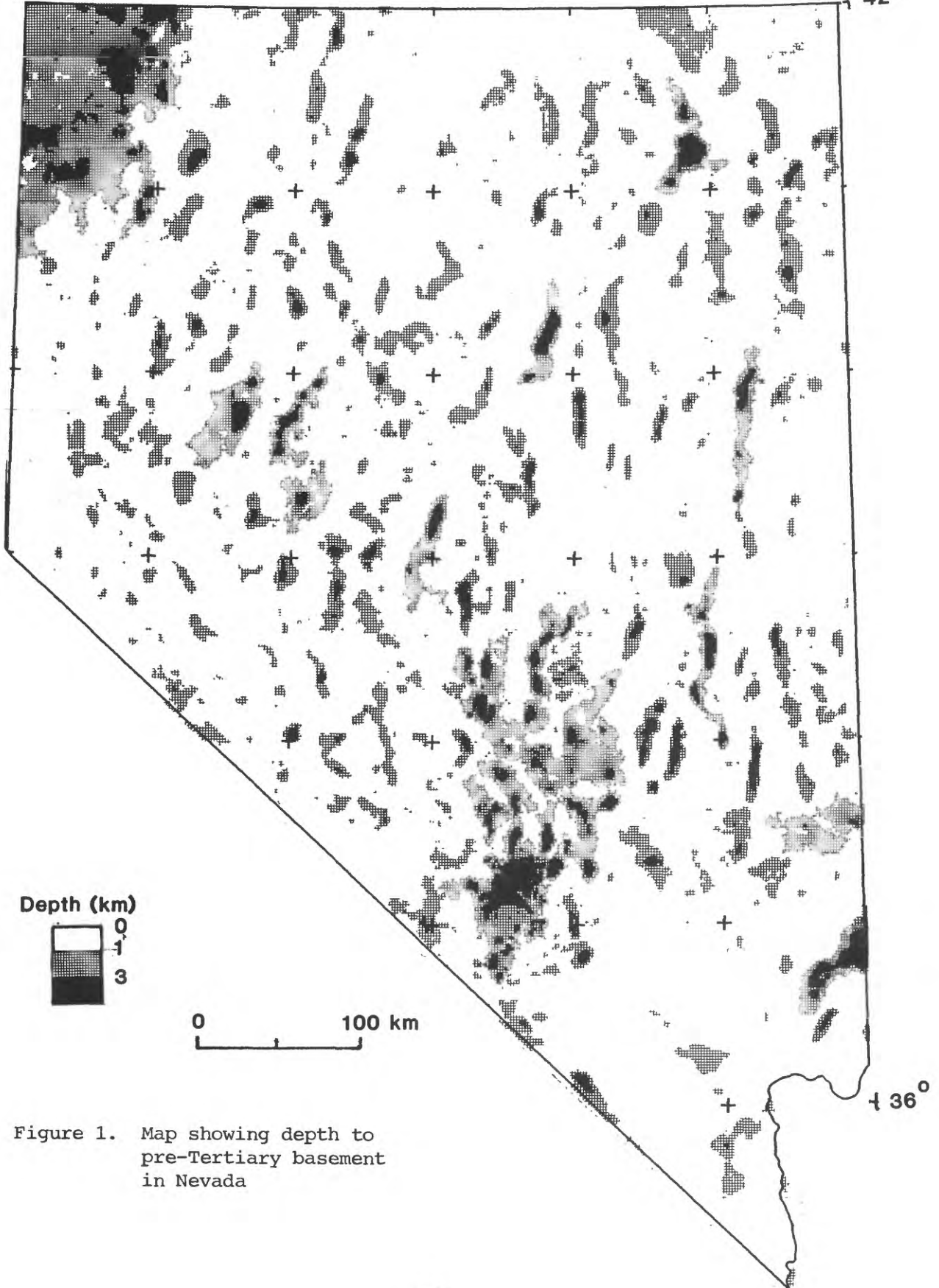


Figure 2. Map of fold axes and thrust focal mechanisms. The Elysian Park and Torrance-Wilmington fold and thrust belts are shaded with breaks in the shading at segmentation boundaries. RF- Raymond fault, SMDF-Sierra Madre fault, and SMF-Santa Monica fault.

120°

114° 42°

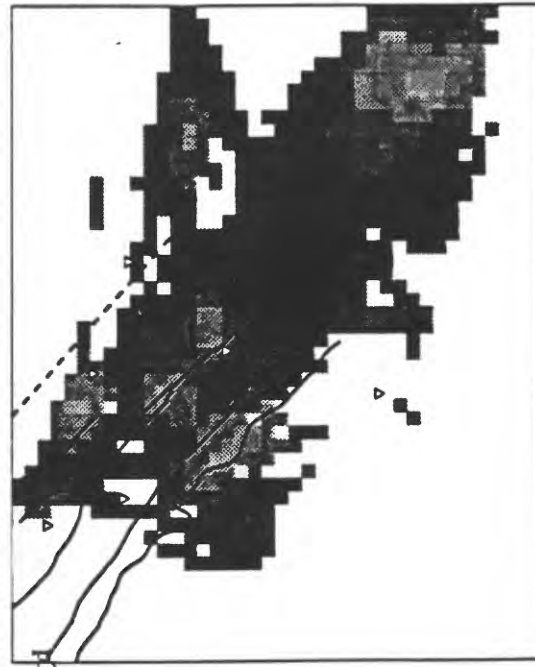
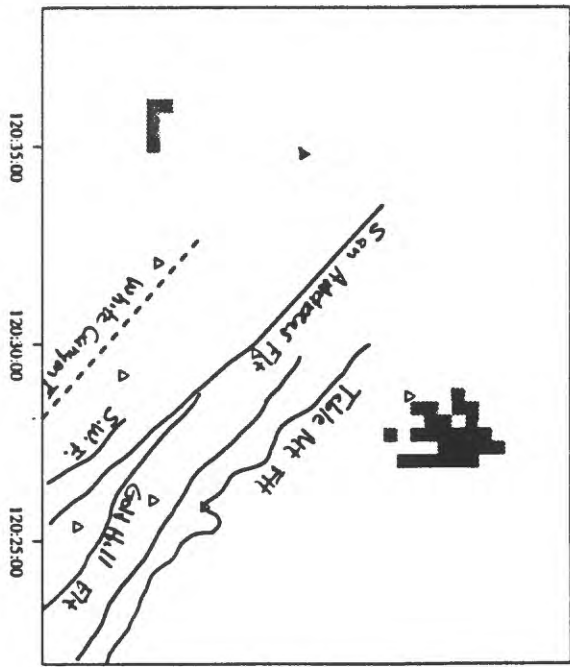
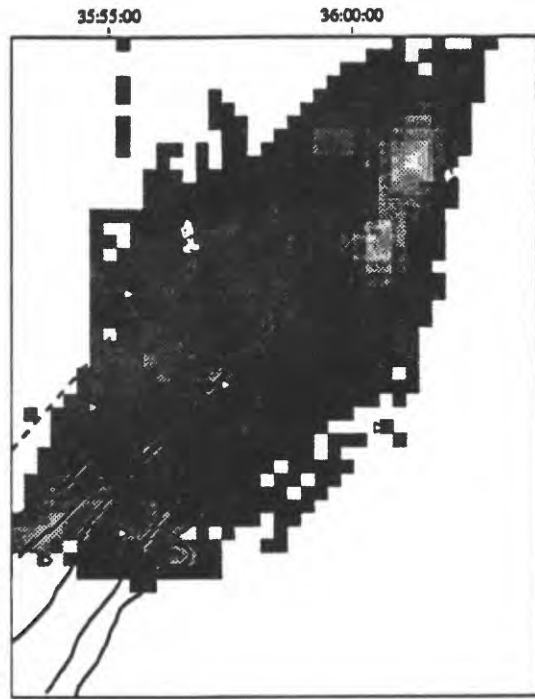
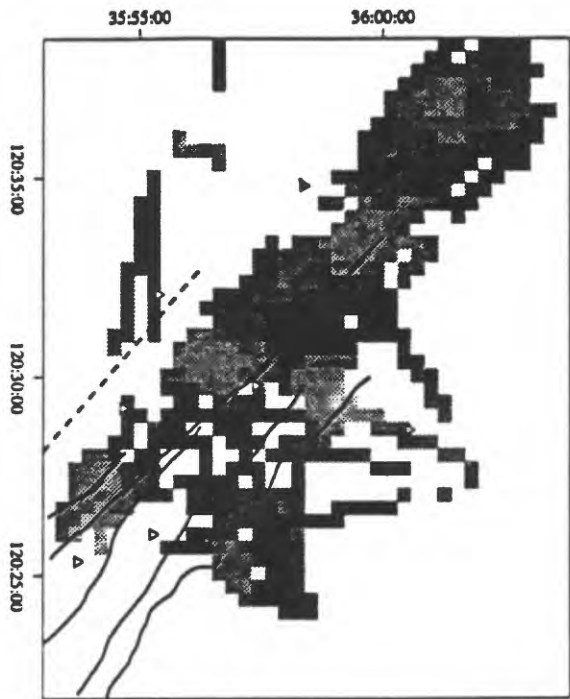


Depth (km)



0 100 km

Figure 1. Map showing depth to pre-Tertiary basement in Nevada



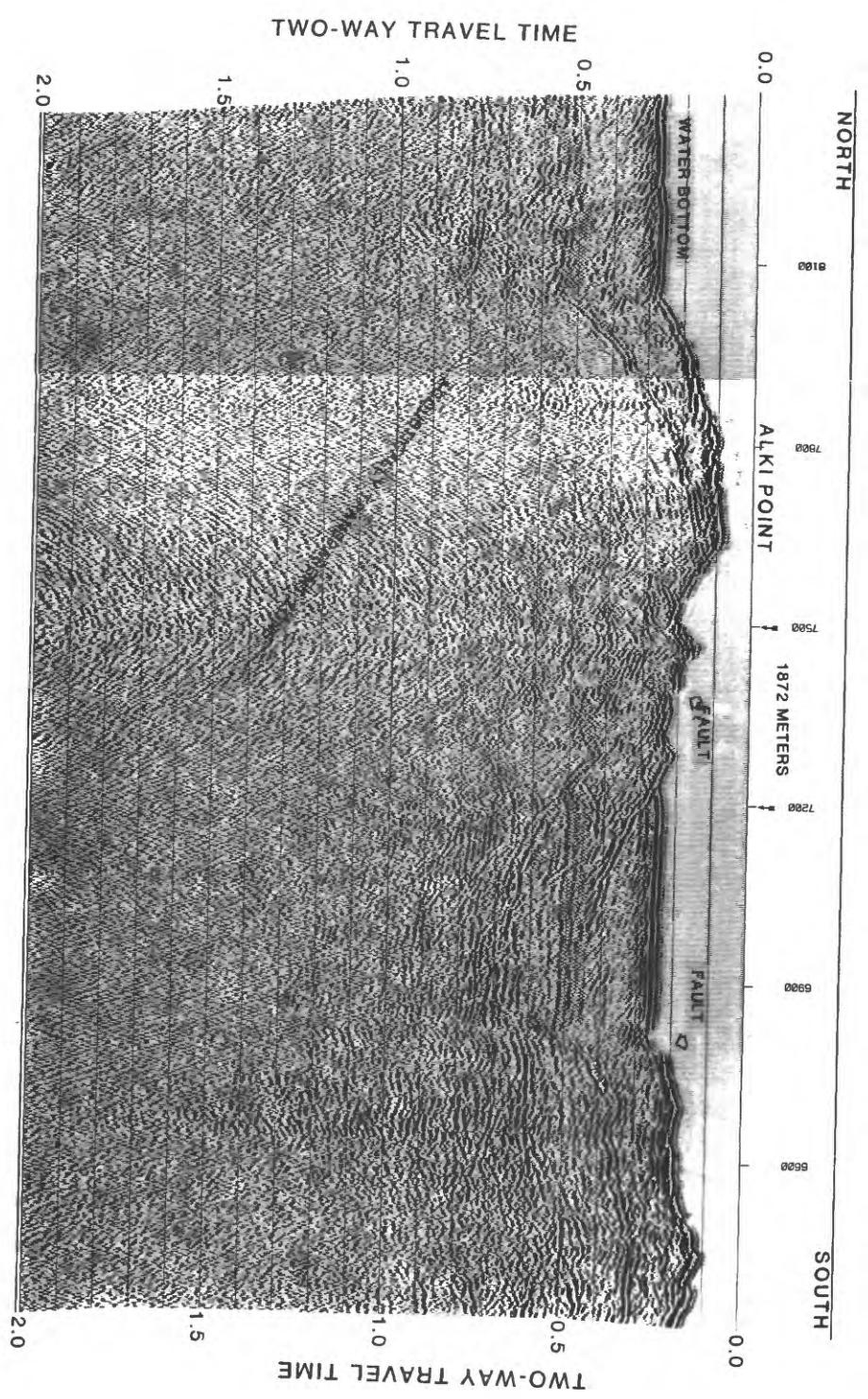
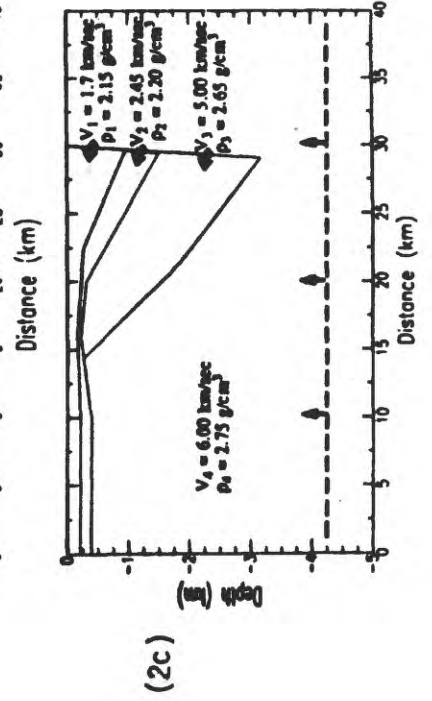
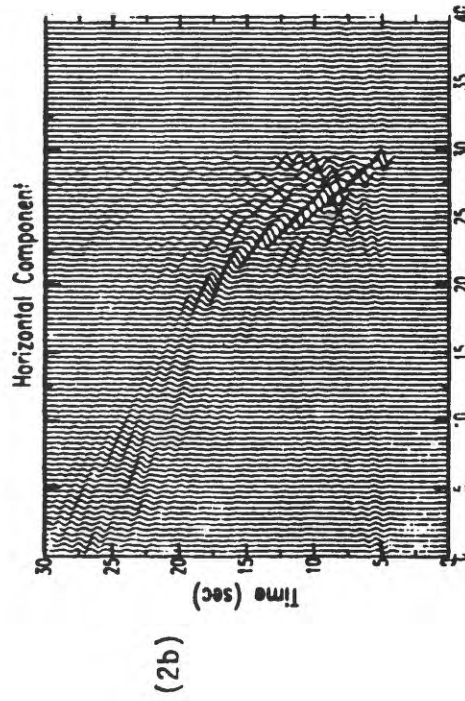
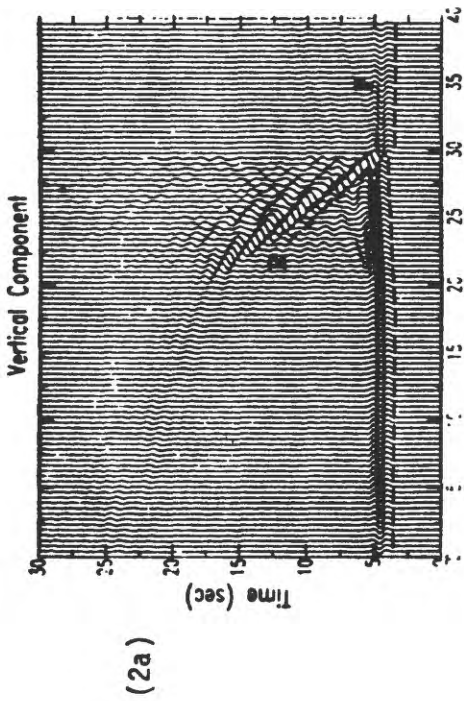
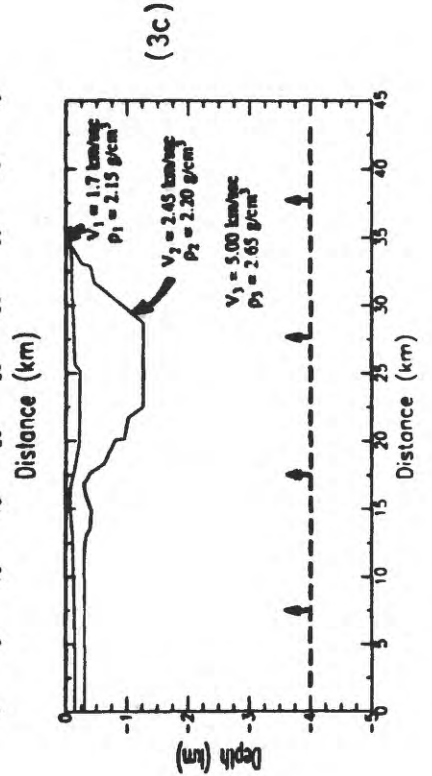
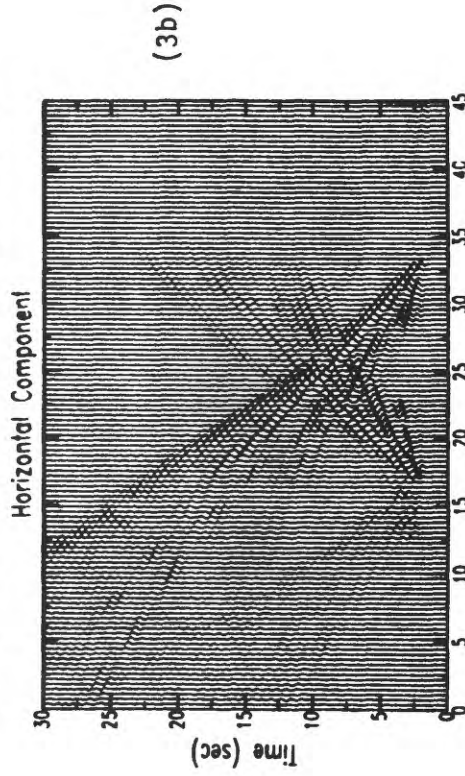
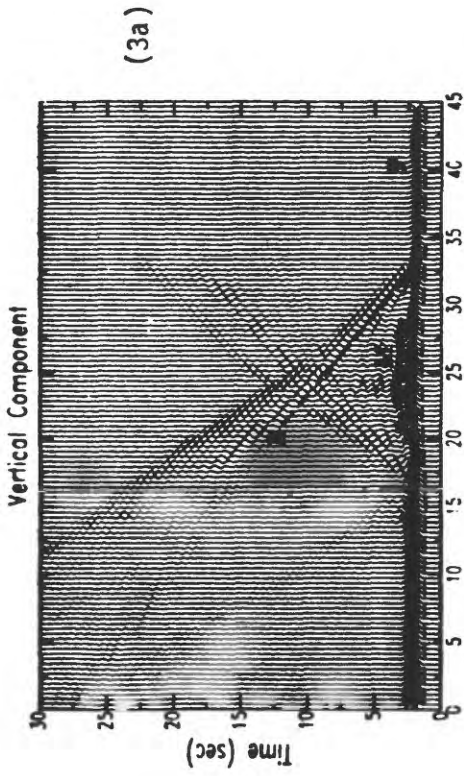


Figure 1. Section of Line 5 showing two interpreted Holocene faults near Alki Point, Seattle, Wash.



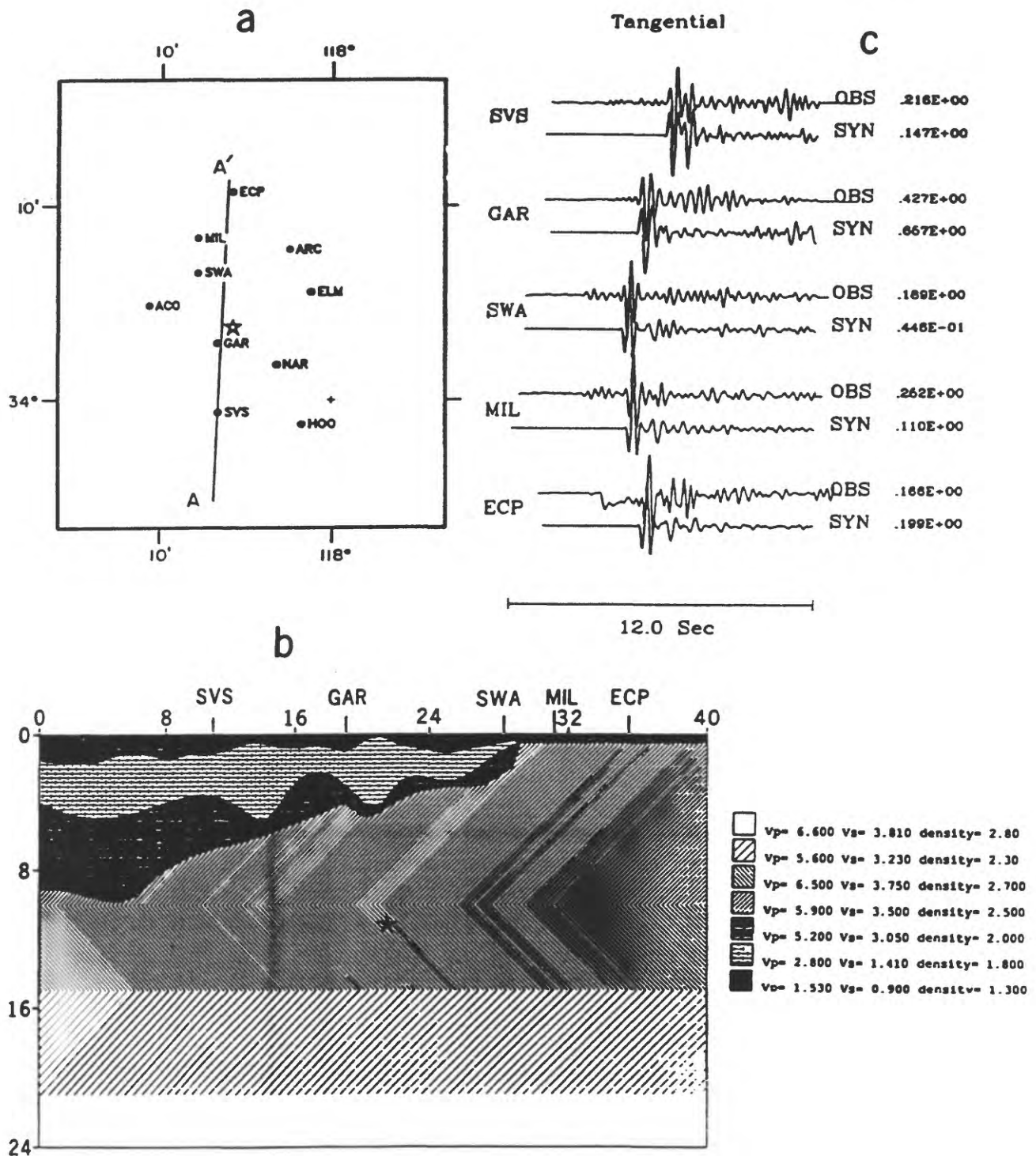


Figure 4. (a) Location of the event and the stations
 (b) Model along a profile, (c) data vs. synthetics.

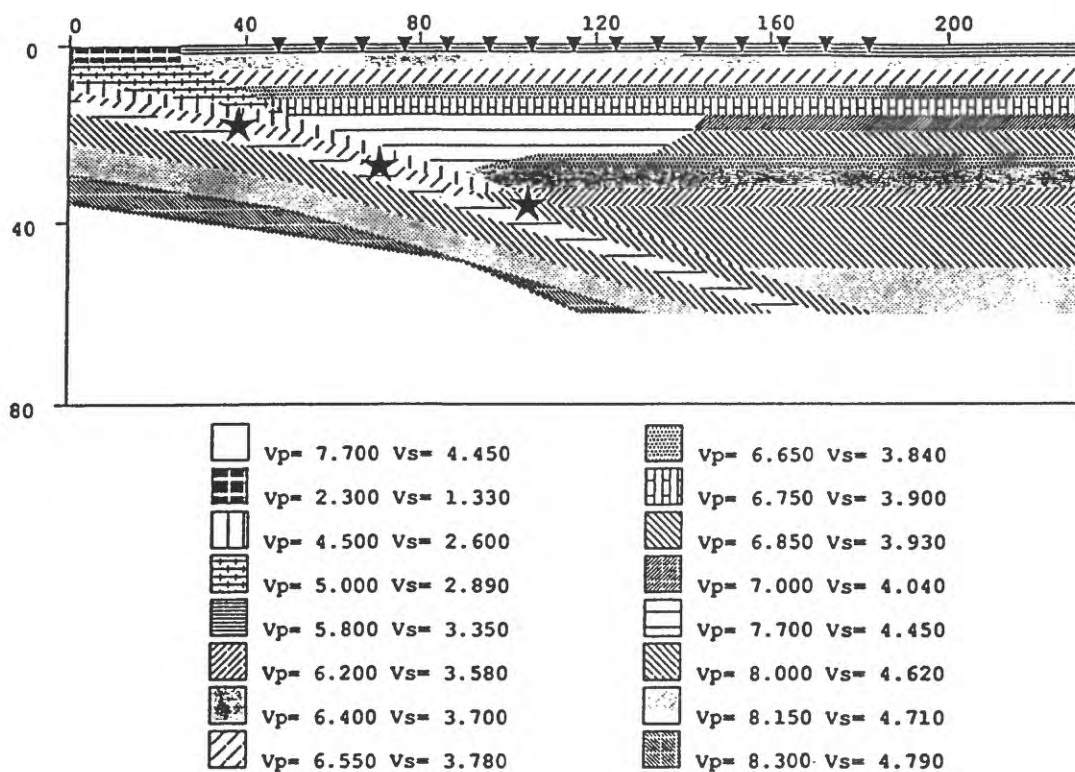


Figure 2. Seismic velocity model of the Cascadia subduction zone, modified from Clowes and others (1987).

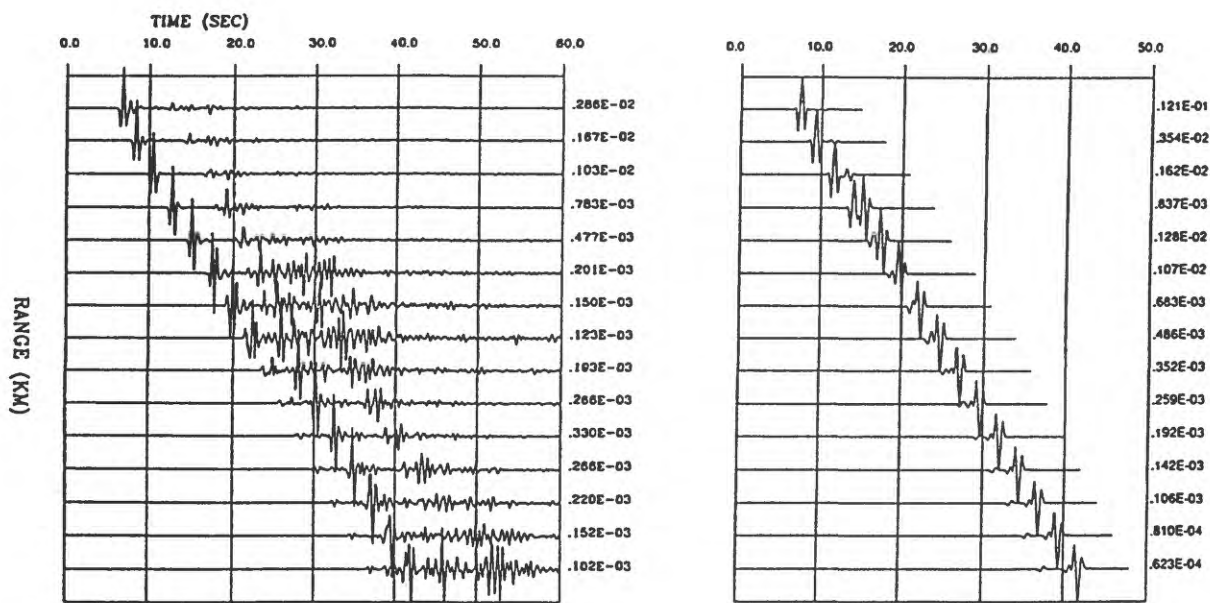
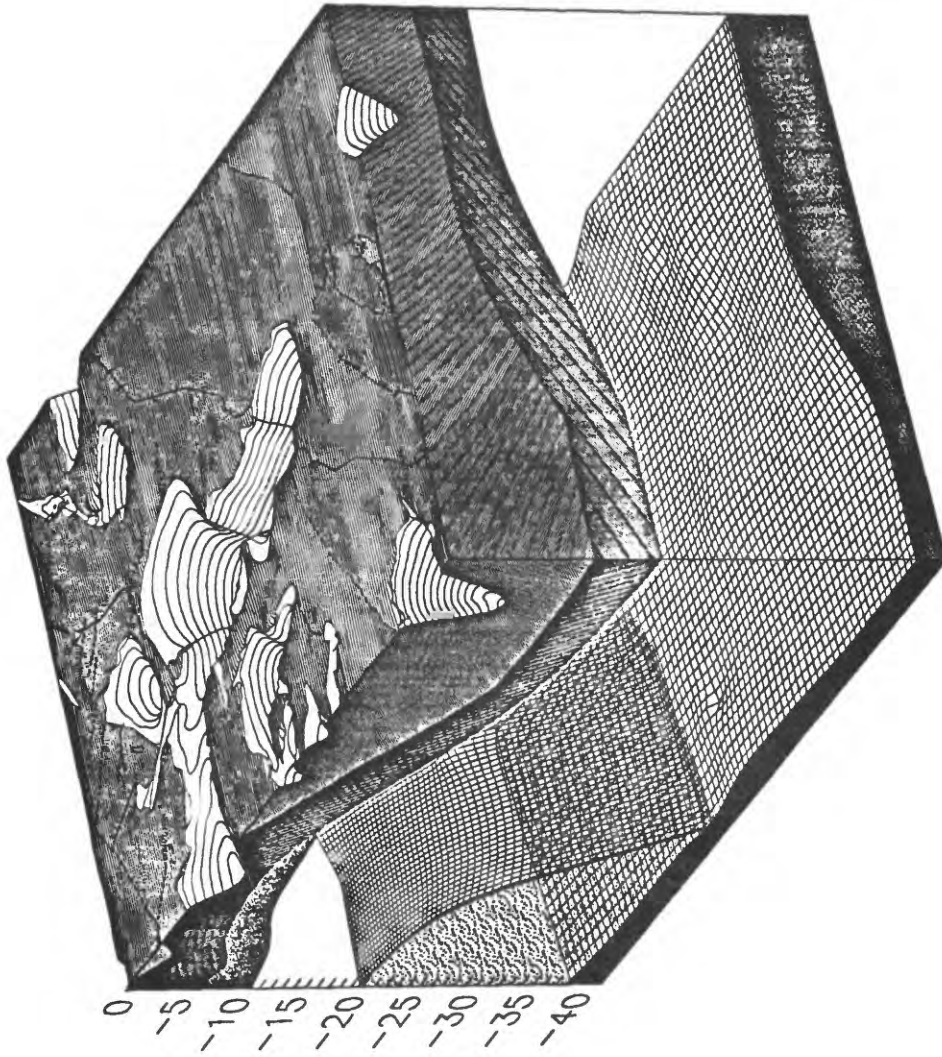


Figure 3. Comparison of profiles of SH synthetic seismograms across the subduction zone calculated for the 2-D model (left) and the simplified 1-D model (right).



Block diagram of a 50 x 70 km area of the crust in the Appalachians of central Maine. The top layer of the model shows Cambrian - Devonian metasedimentary rocks cut by Devonian plutons, the bottoms of which are shown as contoured "holes" in the country rocks. The base of the model is the MOHO surface; the buried edge of the Grenville crustal rocks is shown in the lower left of the figure. The vertical scale is in kilometers. This model was created with ISM software.

