

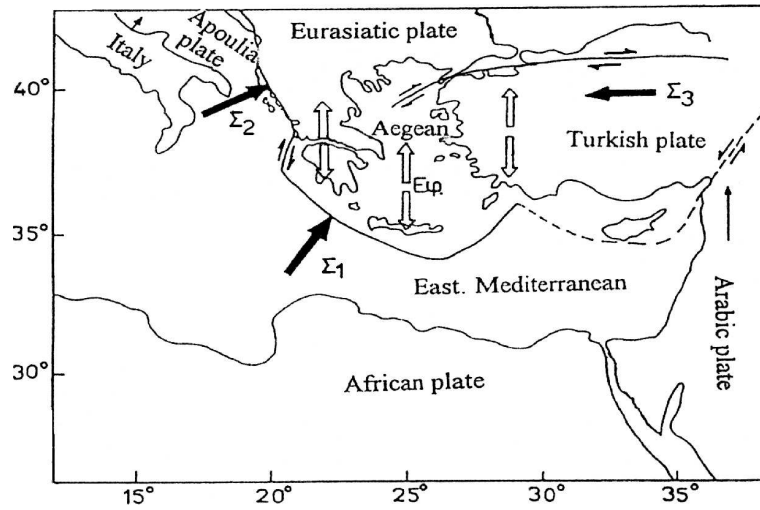


Figure 1: Tectonic setting of Greece.

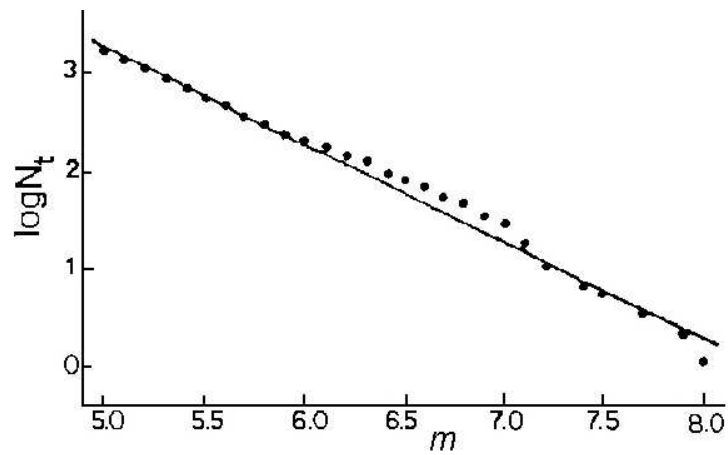


Figure 2: Logarithm of the number of earthquakes N_t in Greece during 1901–1985 with Magnitude m (Papazachos and Papazachou, 1989).

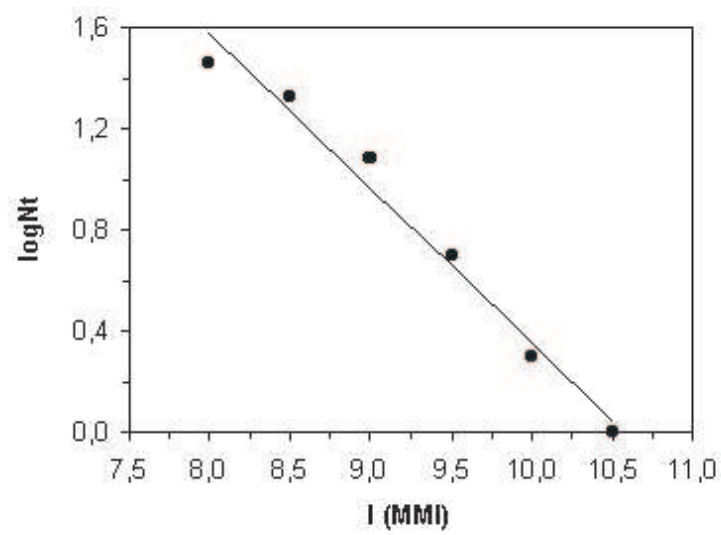


Figure 3: Logarithm of the number of earthquakes N_t in Greece during 1950–2000 with maximum Intensity (MMI) I .

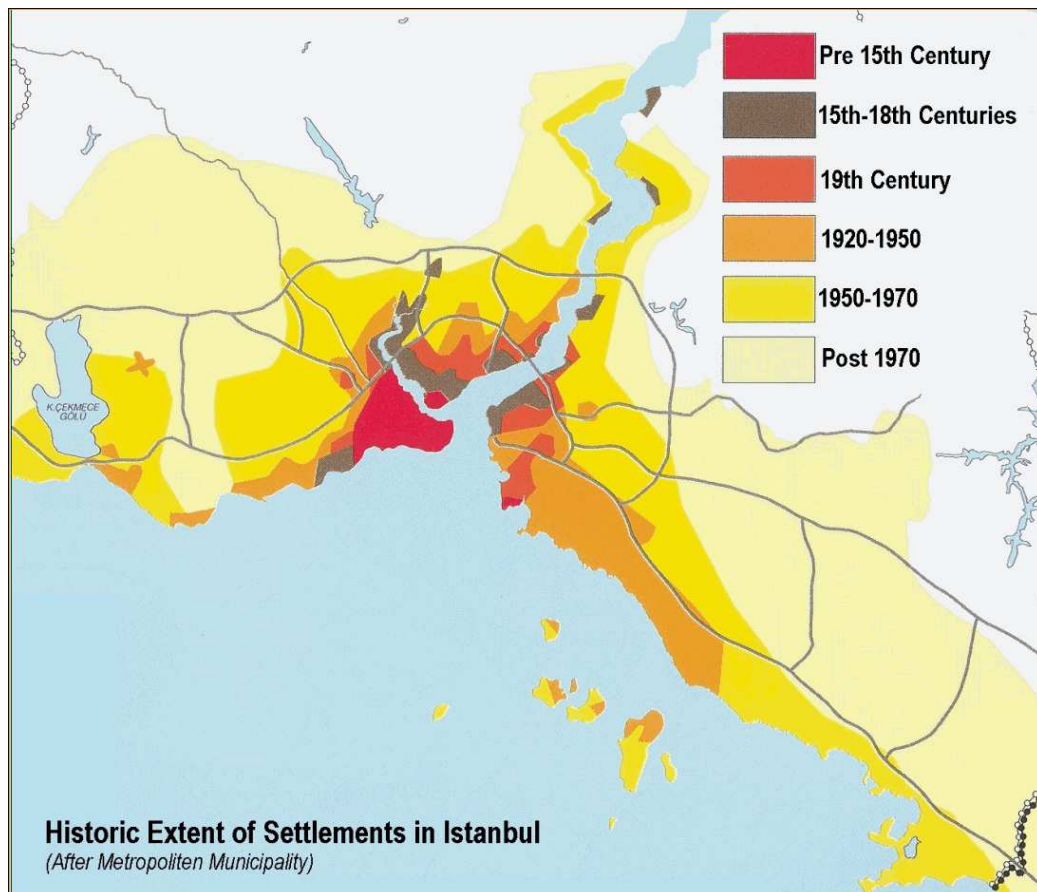


Figure 4: Historic growth of Istanbul.

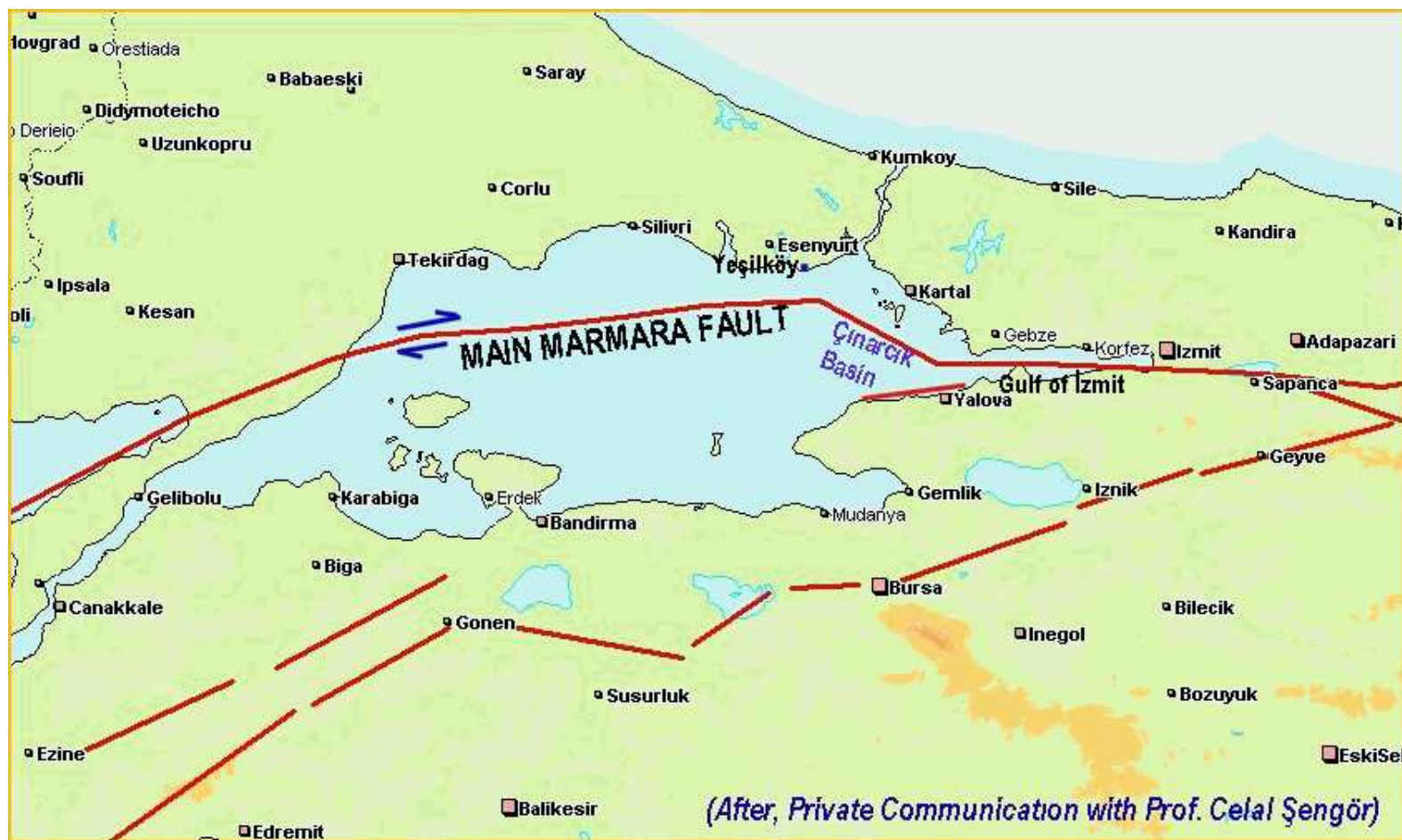


Figure 5: Major active tectonic elements in the Marmara sea.

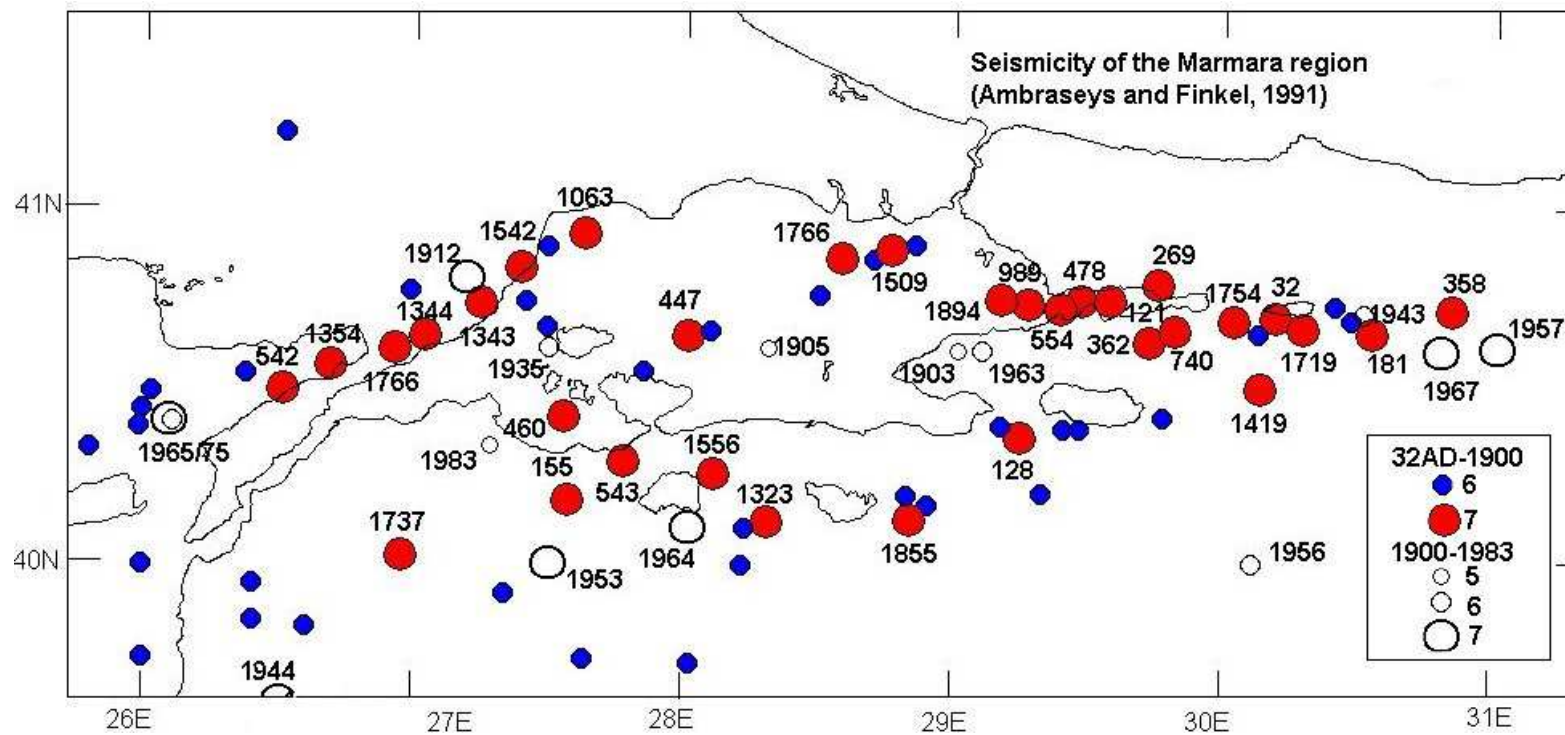


Figure 6: Historical Earthquakes in the Marmara sea region, updated from *Ambraseys and Finkel* (1991).

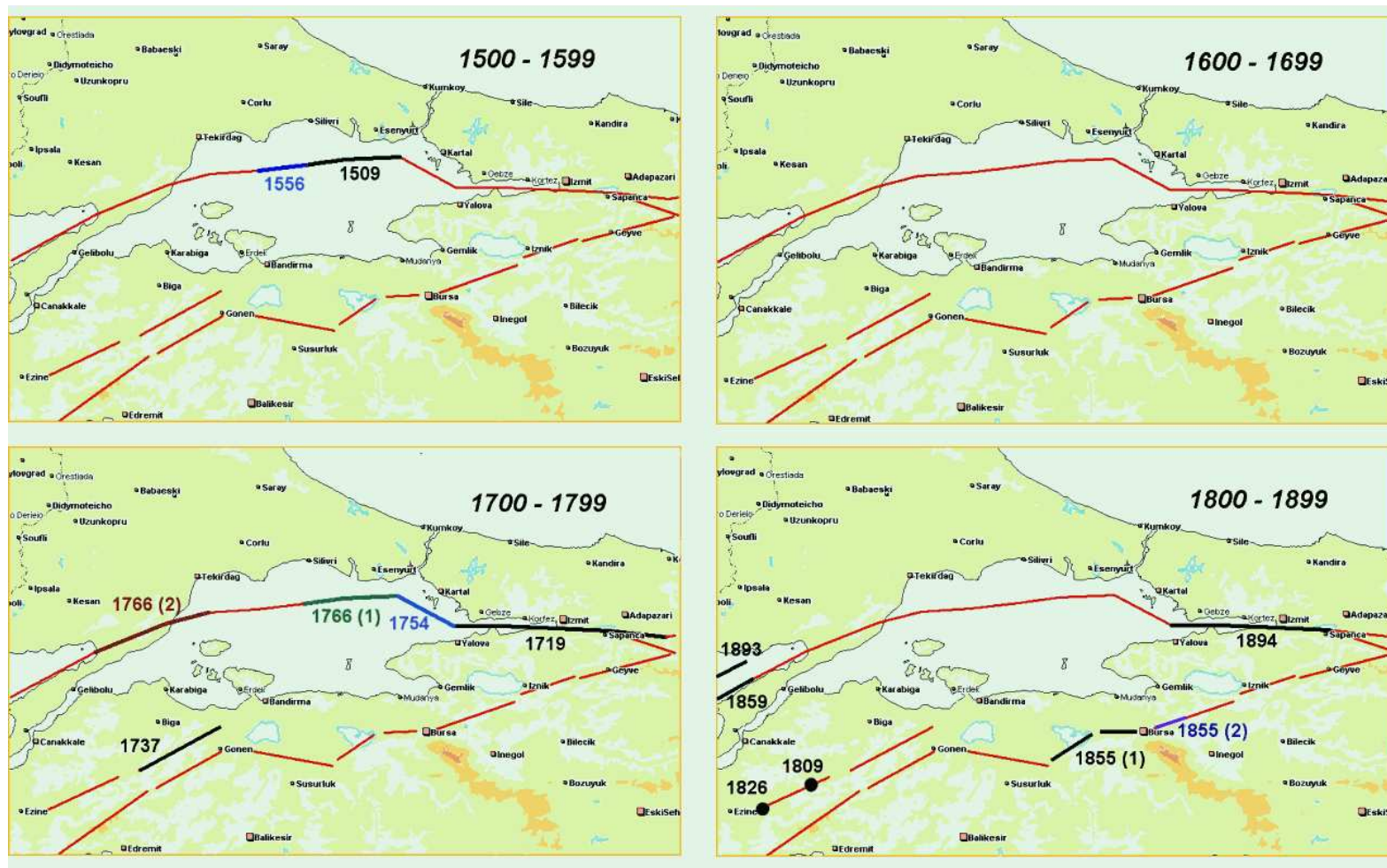


Figure 7: Significant earthquakes and associated fault ruptures effecting Istanbul and its vicinity in the period 1500–1900.

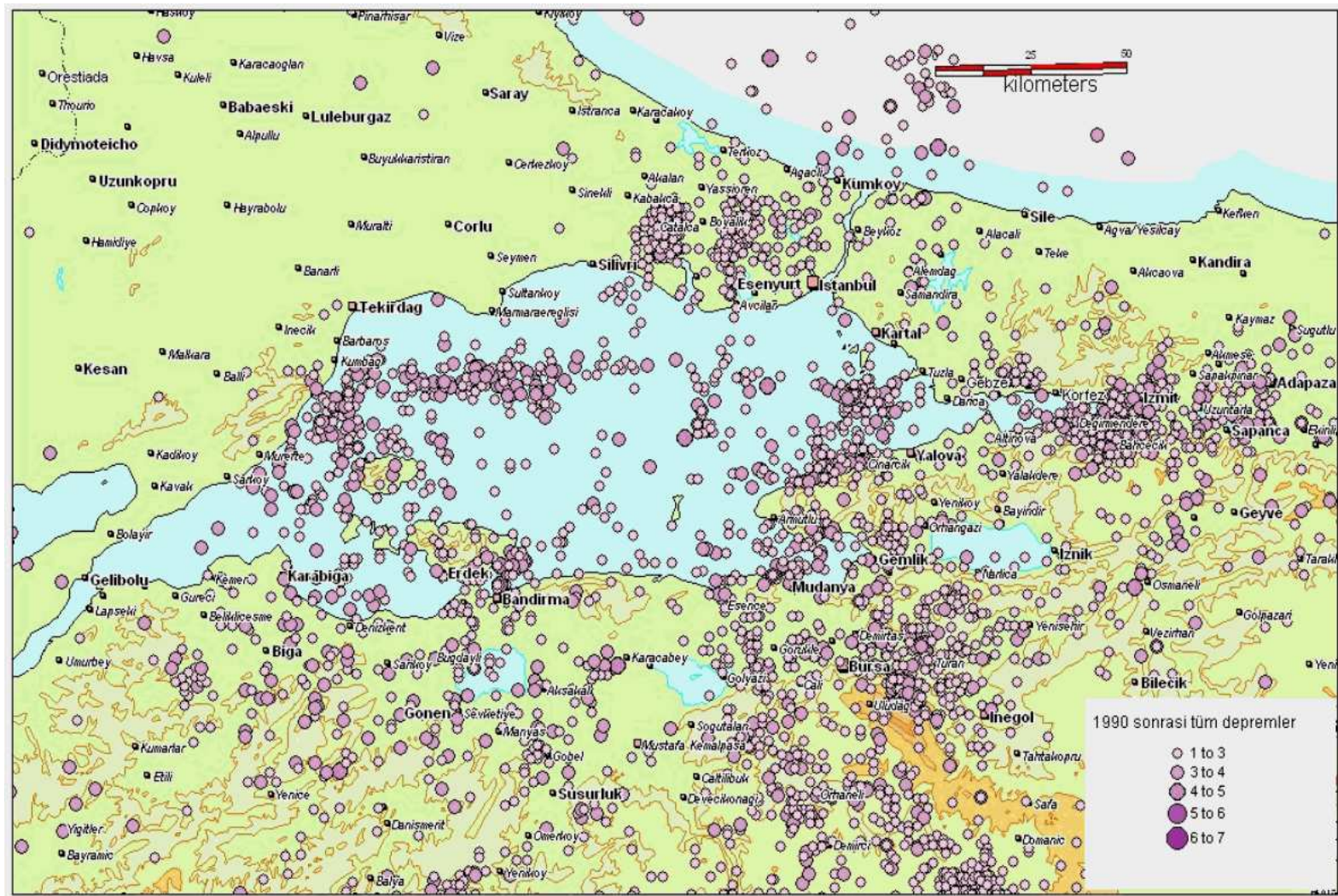


Figure 8: Seismic activity of the Marmara region during 1990–2000 (Kandilli Observatory).



Figure 9: Fault Segmentation Model for Northeastern Turkey.

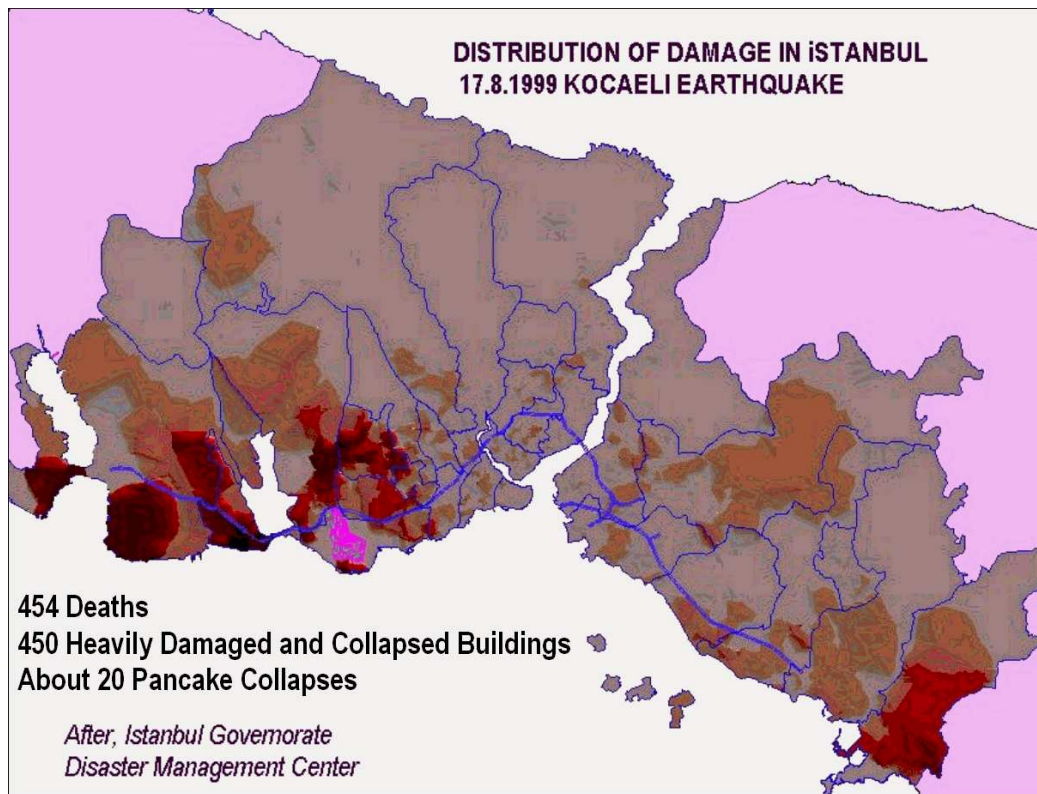


Figure 10: General distribution of building damage in Istanbul in August 17, 1999 Kocaeli earthquake (after, Governorate of Istanbul).

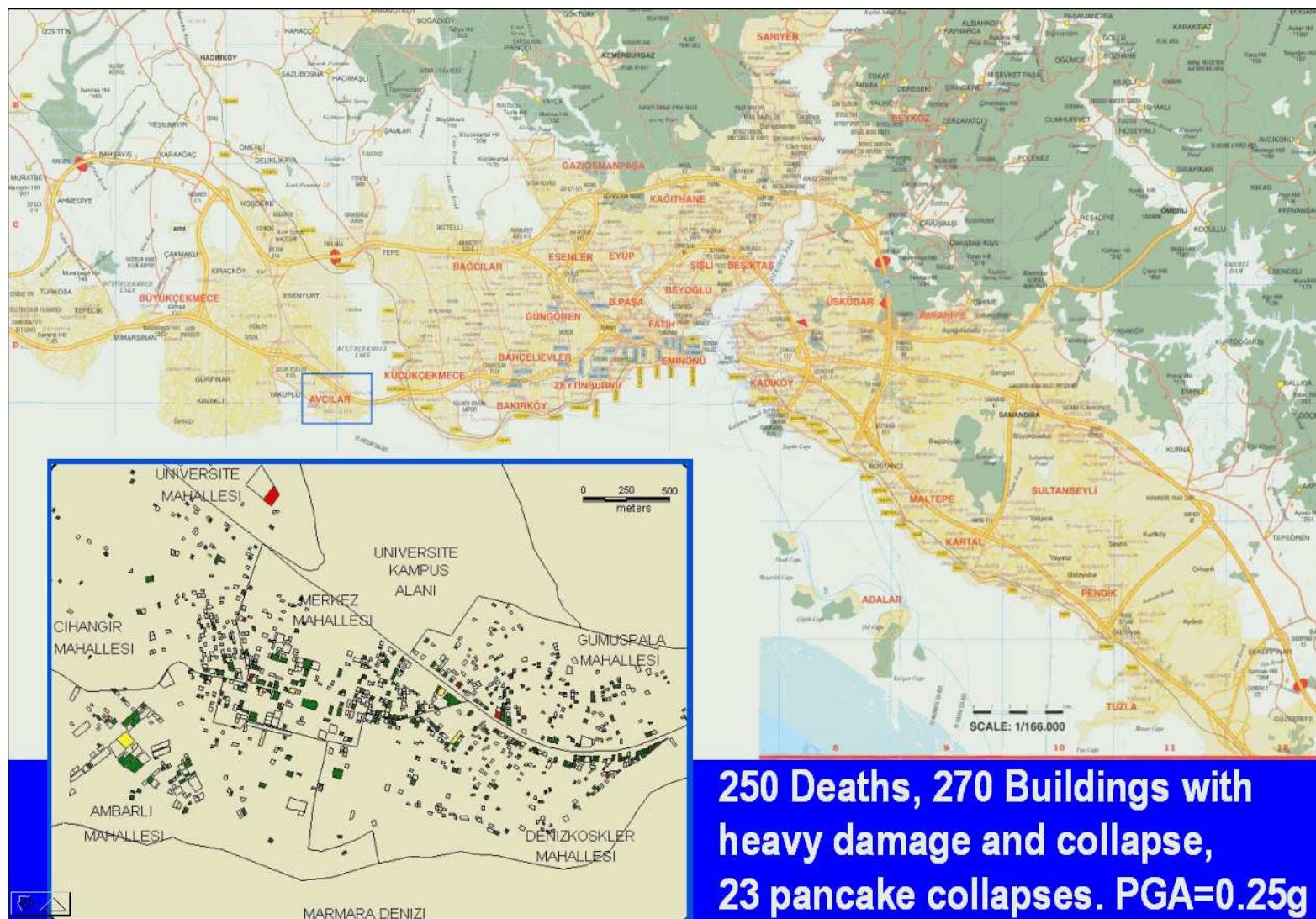


Figure 11: Damage in the Avcilar area due to the August 17, 1999 Kocaeli earthquake (After, Earthquake and Soils Directorate of Istanbul Metropolitan Municipality).

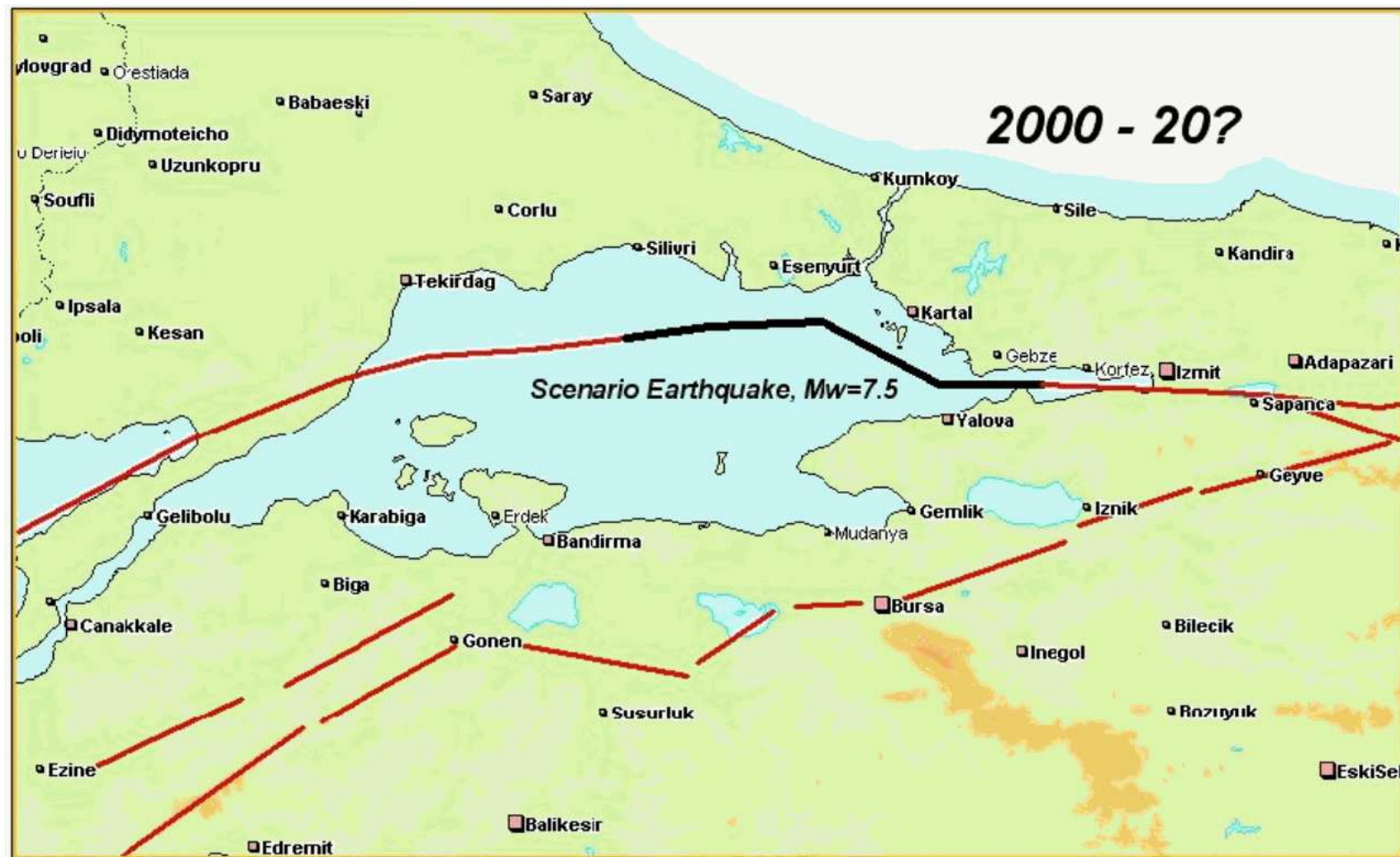


Figure 12: Fault rupture and segmentation associated with the scenario earthquake ($m_w=7.5$).

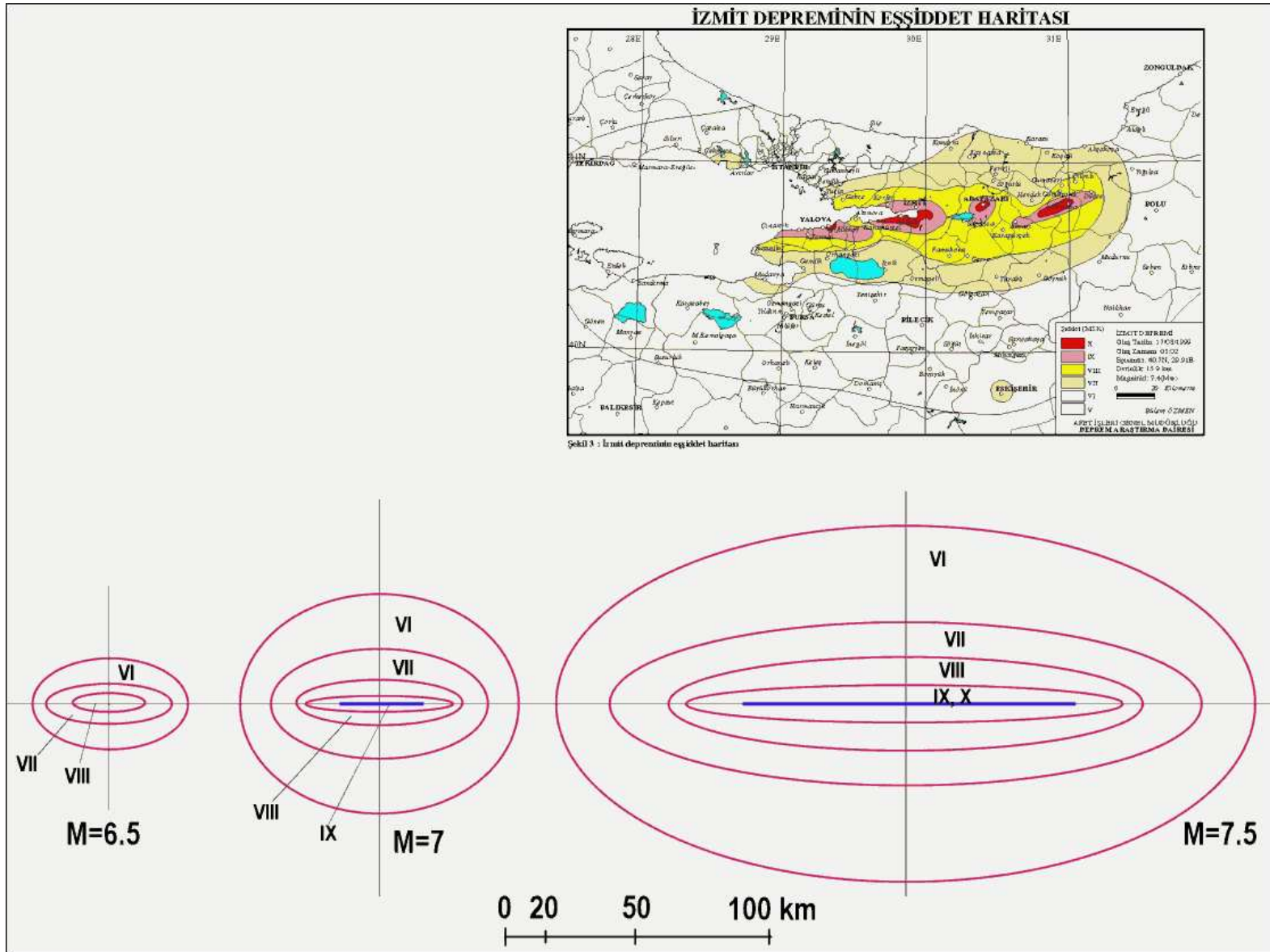


Figure 13: Synthetic isoseismal shapes associated with magnitude 6.5, 7.0 and 7.5 earthquakes and their comparison with the isoseismal map of the magnitude 7.4 Kocaeli earthquake.

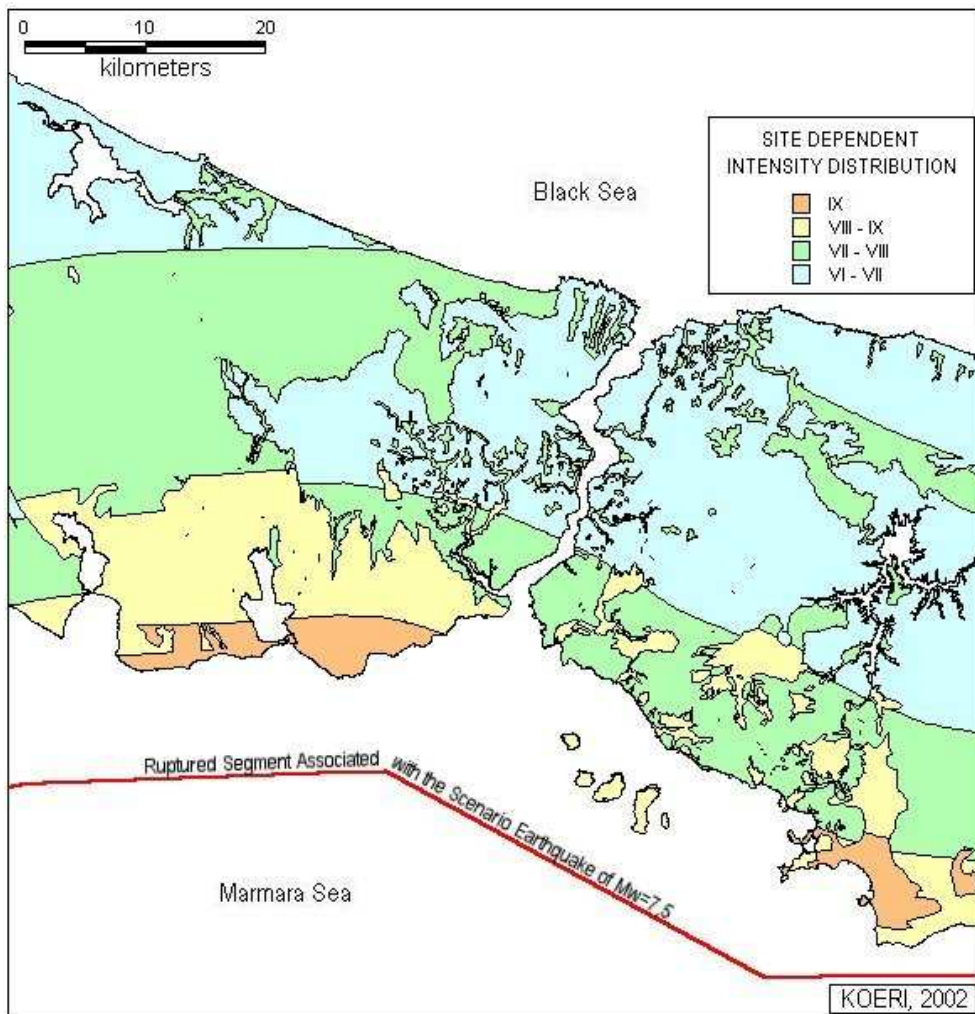


Figure 14: Regional distribution of intensities in Istanbul from a $m_w=7.5$ scenario earthquake.

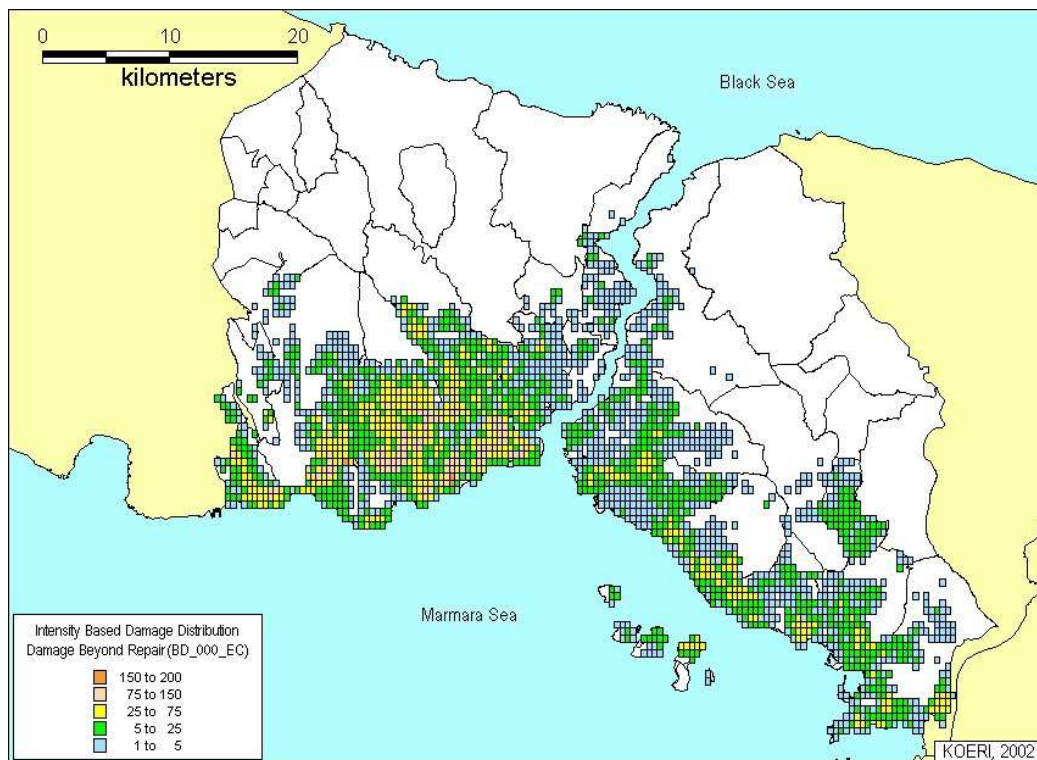


Figure 15: Distribution of buildings damaged beyond repair. From *Earthquake Risk Assessment for the Istanbul Metropolitan Area*, Report prepared by Bogazici University Kandilli Observatory and Earthquake Research Institute, Department of Earthquake Engineering.

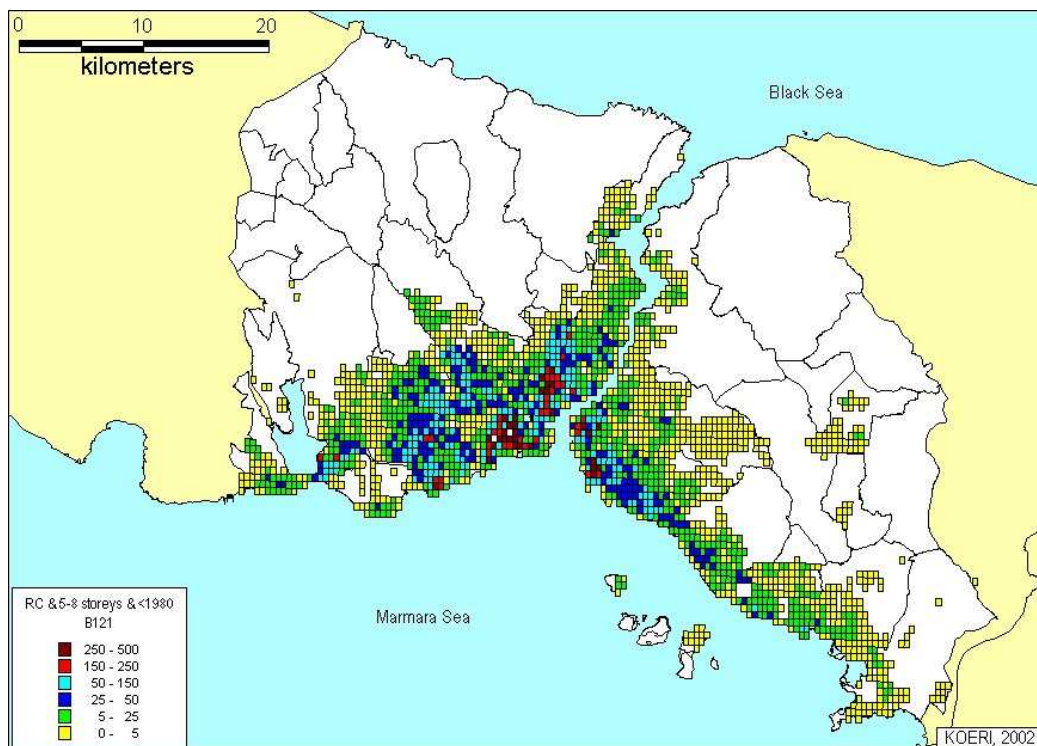


Figure 16: RC buildings with 5-8 storeys built before 1980. From *Earthquake Risk Assessment for the Istanbul Metropolitan Area*, Report prepared by Bogazici University Kandilli Observatory and Earthquake Research Institute, Department of Earthquake Engineering.