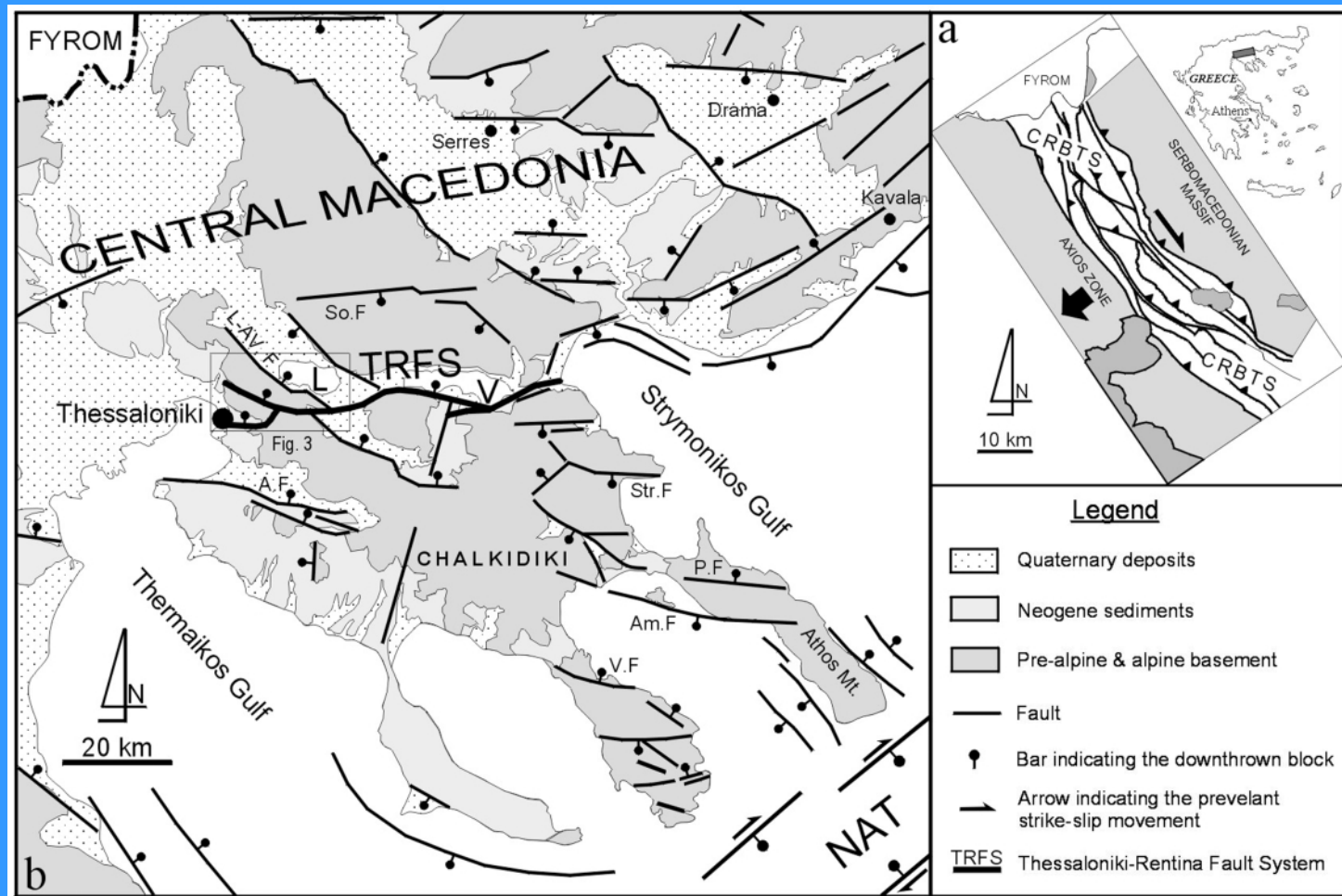


Field Experiment in Thessaloniki (Site: White Tower)

Seismotectonic Setting, Site
Characterization, Instrumentation,
Fieldwork

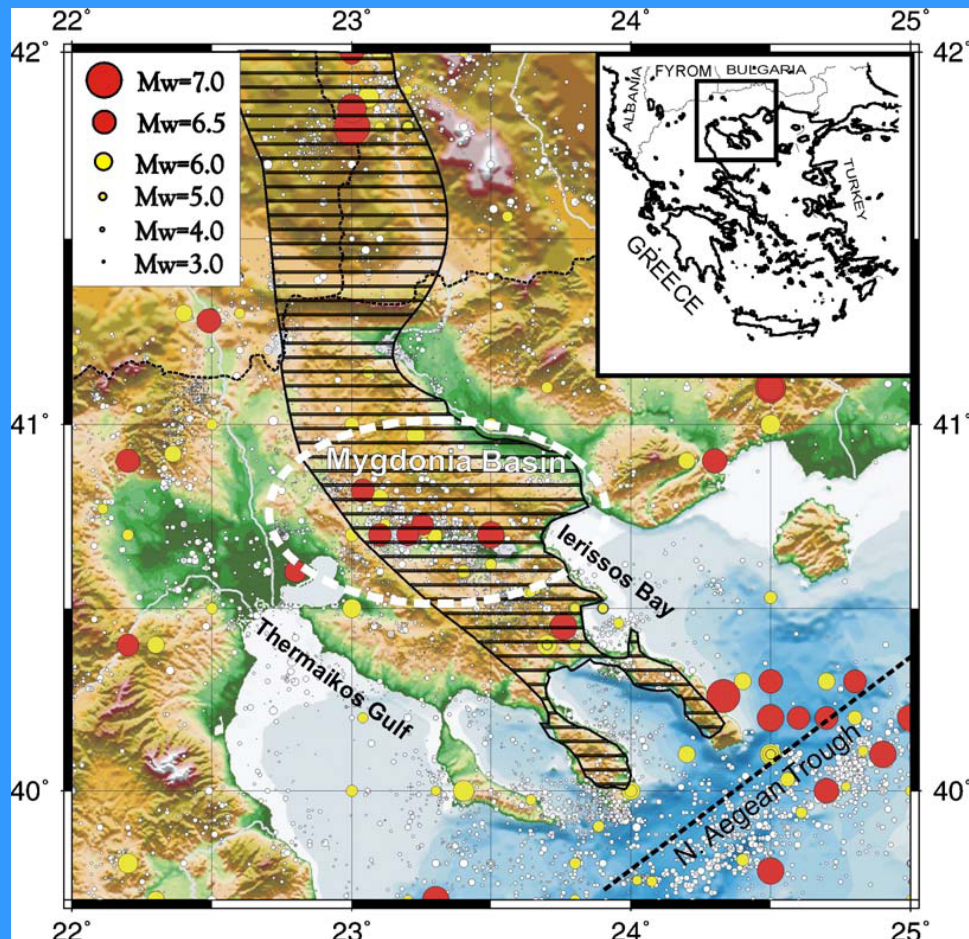
Seismotectonic Setting



(Tranos, et al., 2003)

December 6-12th 2008, Thessaloniki, Greece

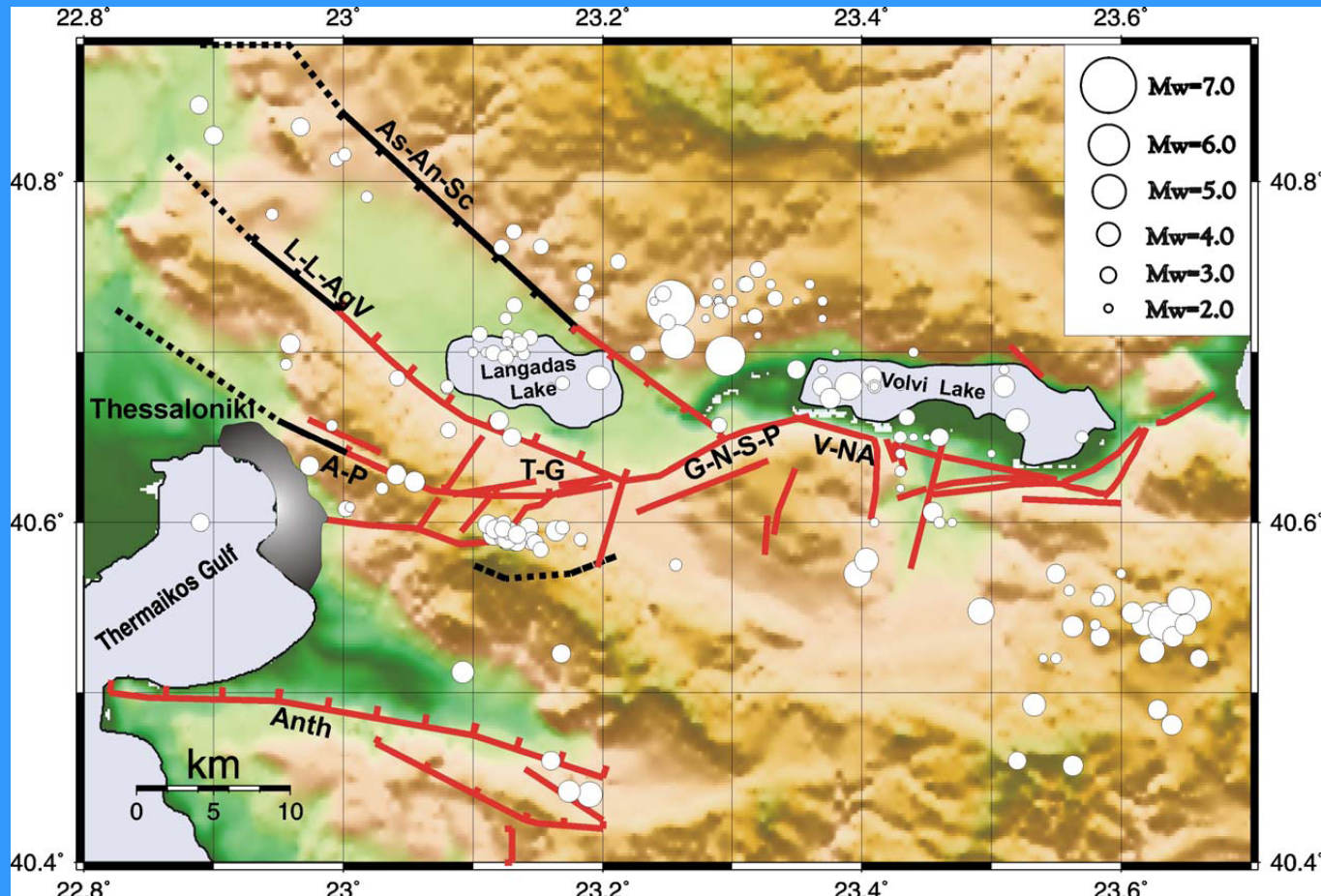
Seismicity



(Vamvakaris et al., 2006)

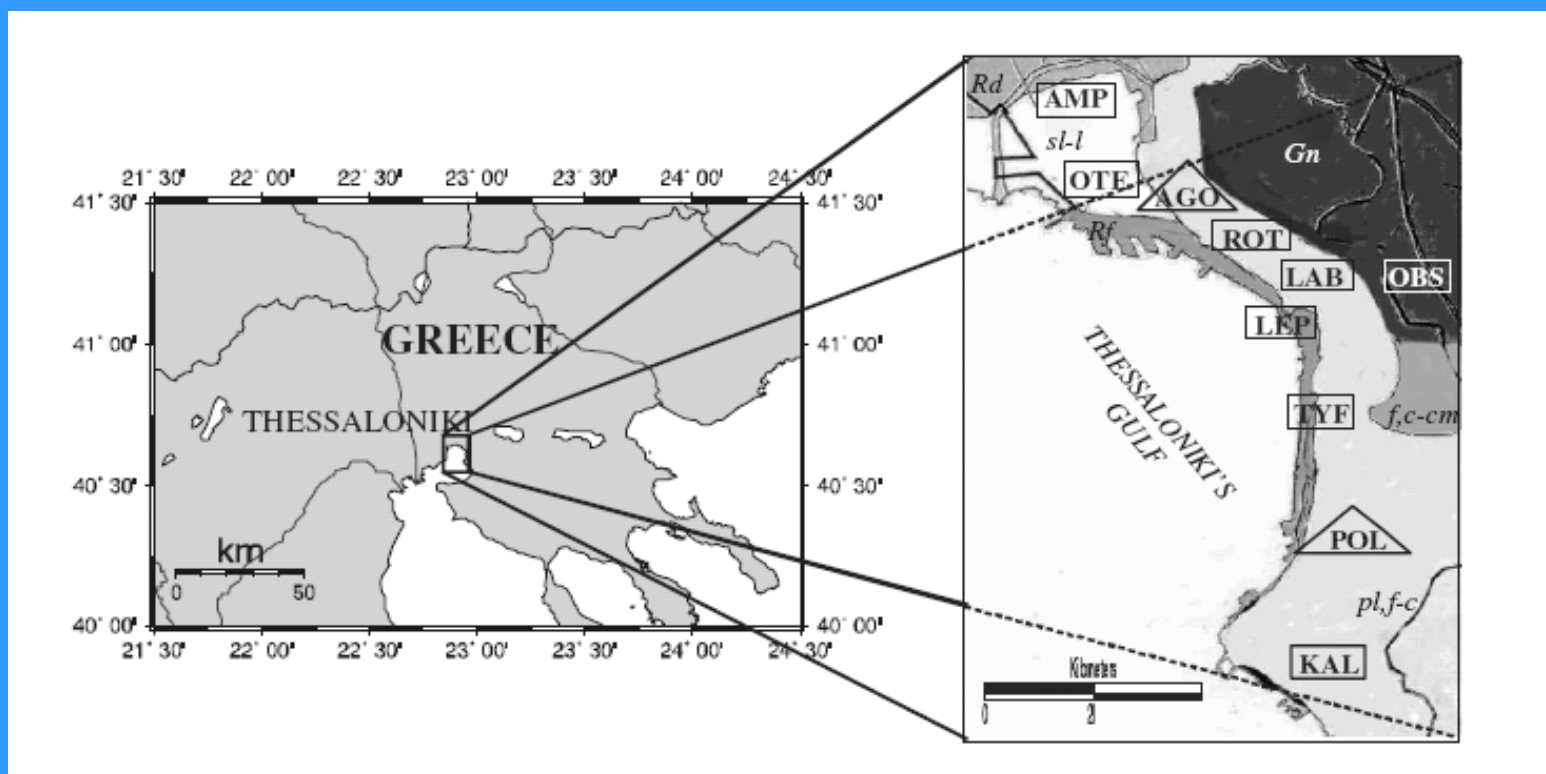
December 6-12th 2008, Thessaloniki, Greece

Nearby Faults to the City



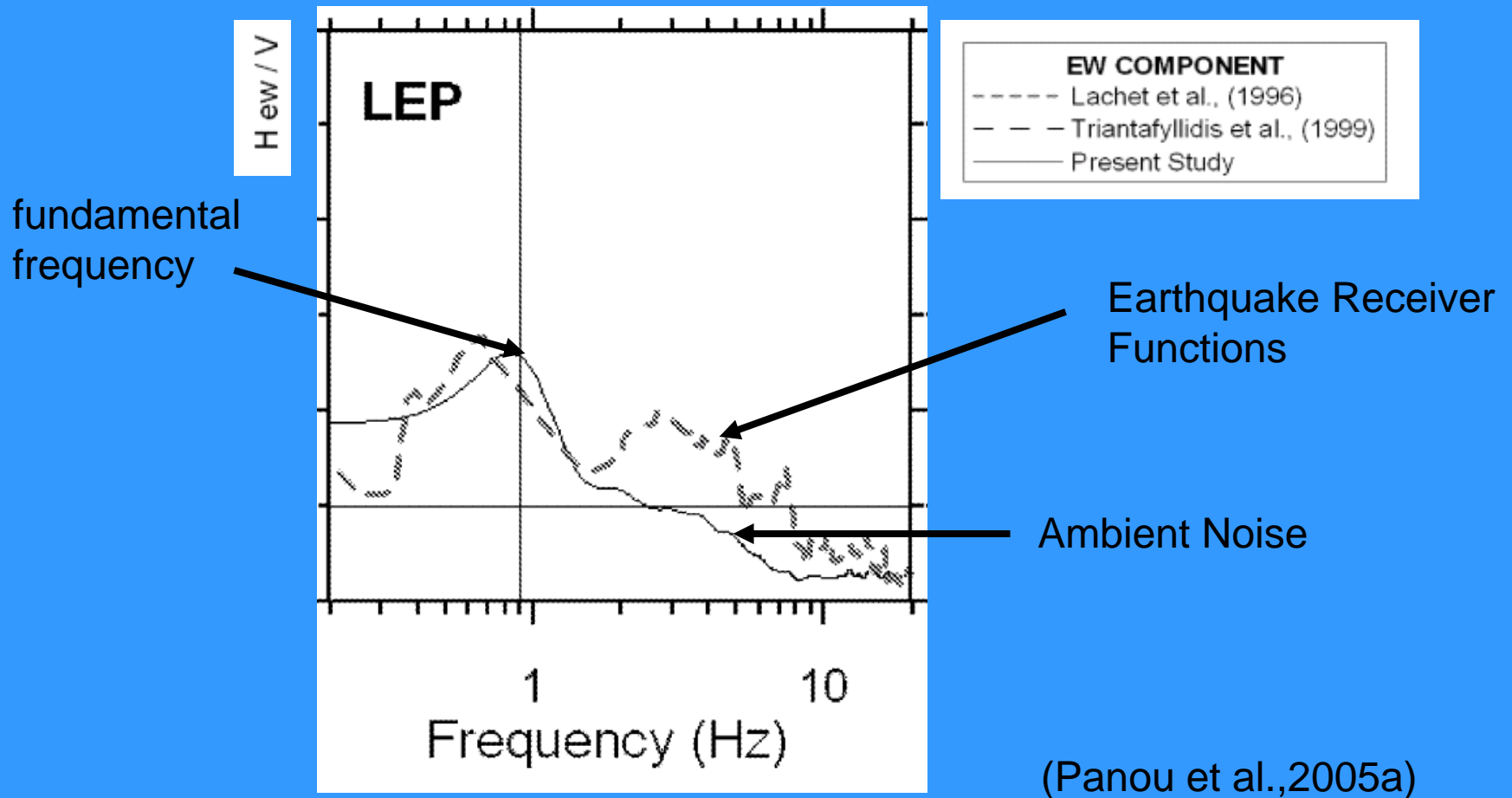
(Tranos et al., 2003; Vamvakaris et al., 2006)

Site Characterization



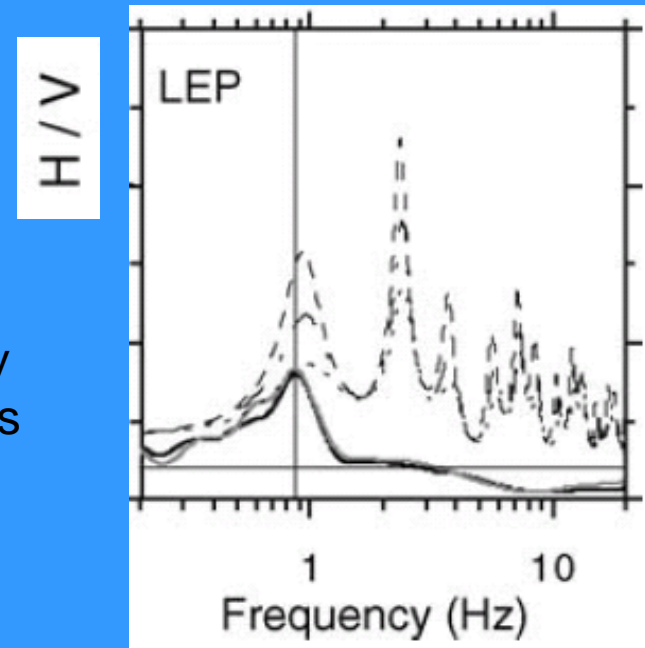
(Lachet et al, 1996; Triantafyllidis, et al., 1999; Panou et al., 2005)

Site of White Tower (LEP)

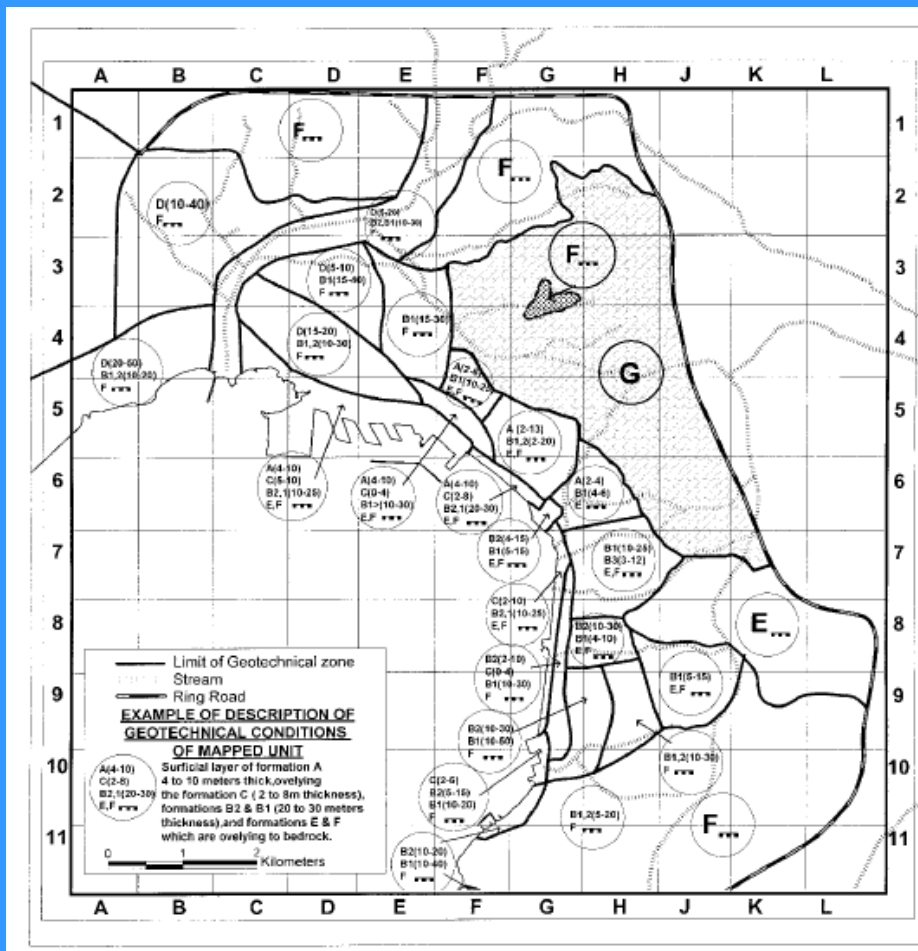


Ambient Noise & 1D TF

Comparison of the ambient noise H/V
 spectral ratio (black solid line: EW/V, grey
 solid line: NS/V) with 1D transfer functions
 for various angles of incidence (Panou et
 al., 2005b).



Geotechnical Info

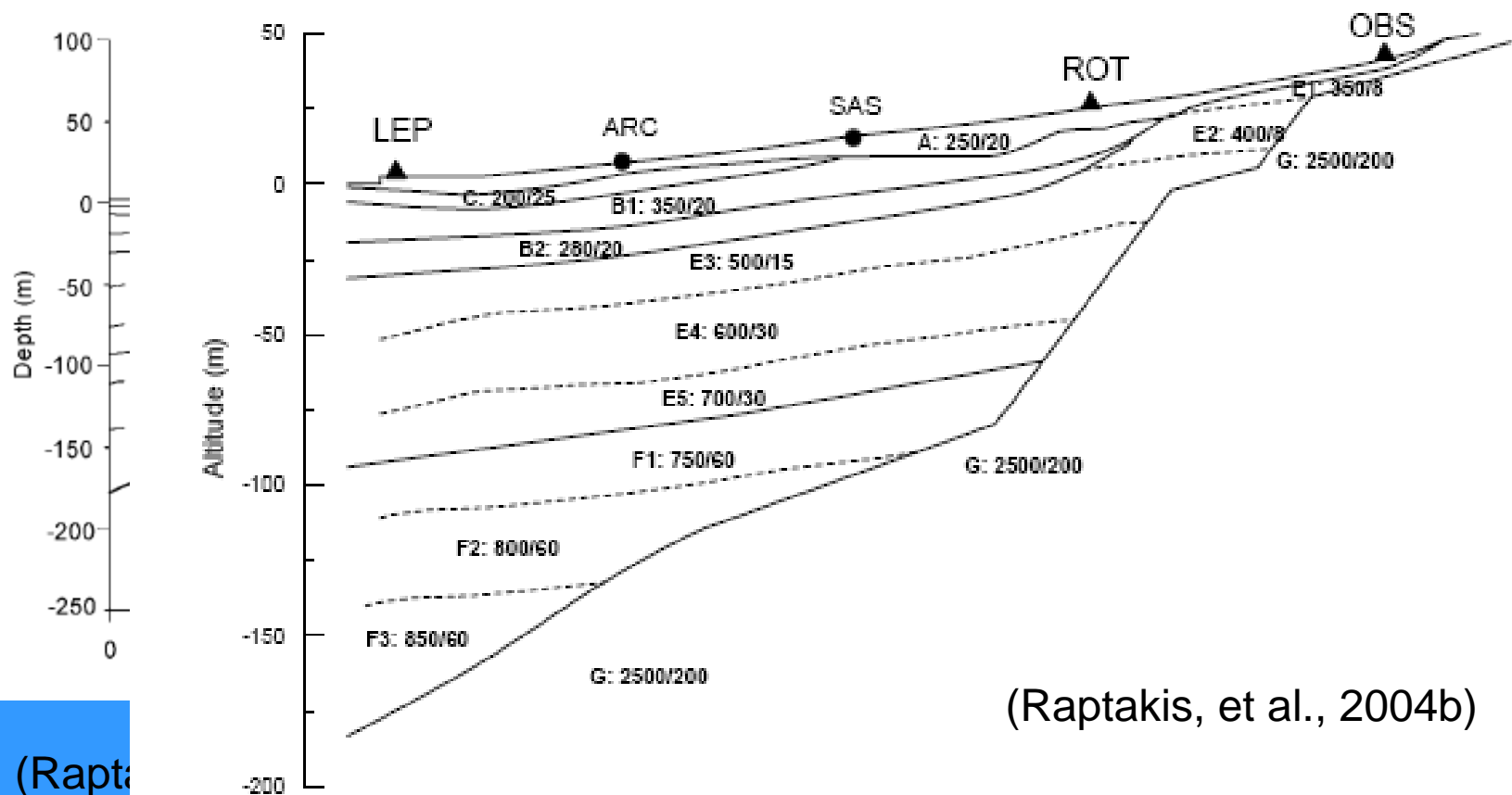


Dynamic properties of the main soil formations of the Thessaloniki urban area. The values in brackets specify the mean values of V_S velocities and quality factors Q_S

Formation (1)	Description (2)	V_S (m/s) (5)	V_P (m/s) (6)	Q_S (7)
Surficial				
A	Artificial Fills, demolition materials & debris parts	200-350 (250)	400-1700	8-20 (15)
B1	Very Stiff sandy-silty clays to clayey sands, low plasticity	300-400 (350)	1900	15-20 (20)
B2	Soft sandy-silty clays to clayey sands, low to medium plasticity	200-300 (250)	1800	20-25 (20)
B3	Stiff to hard high plasticity clays	300-400 (350)	1800	20-40 (30)
C	Very soft clay mud and silty sands	120-220 (180)	1800	20-25 (25)
D	Alluvium deposits, sandy-silty clays to clayey sands-silts, low strength and high compressibility	150-250 (200)	1800	15-25 (20)
Subbase				
E	Stiff to hard sandy-silty clays to clayey sands	350-700 (600)	2000	6-30 (30)
F	Very stiff to hard low to medium plasticity clays to sandy clays Overconsolidated with rubble and thin layers of gravels	700-850 (750)	3200	50-60 (60)
G	GreenSchists & Gneiss	1750-2200 (2000)	4500	180-200 (200)

(Anastasiadis et al., 2001)

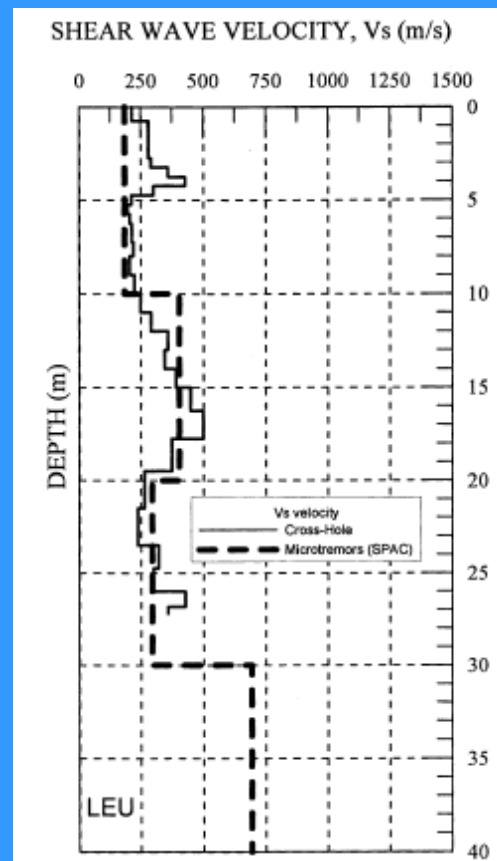
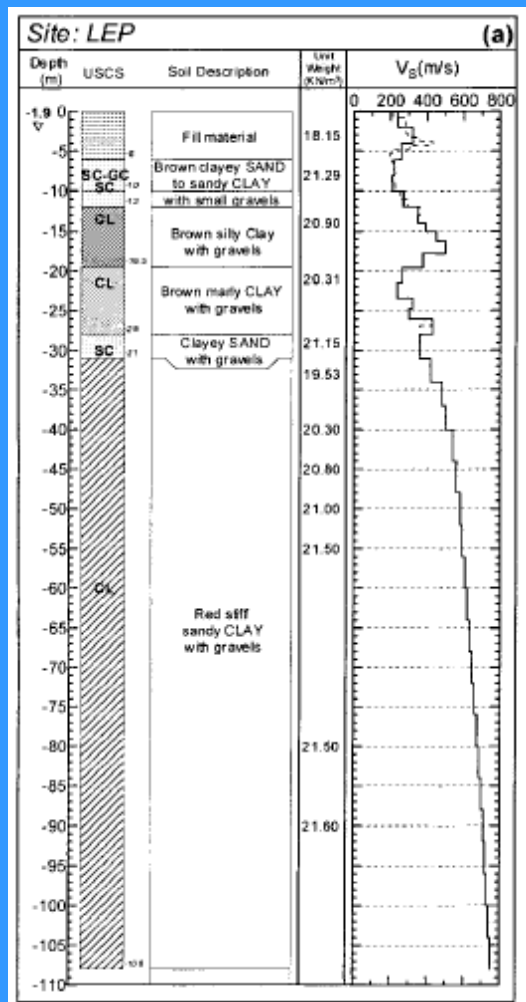
Geotechnical Profile



(Raptakis, et al., 2004b)

(Raptakis

Geotechnical and Geophysical Information



(Apostolidis, et al., 2004)

(Anastasiadis, et al., 2001)

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Instrumentation



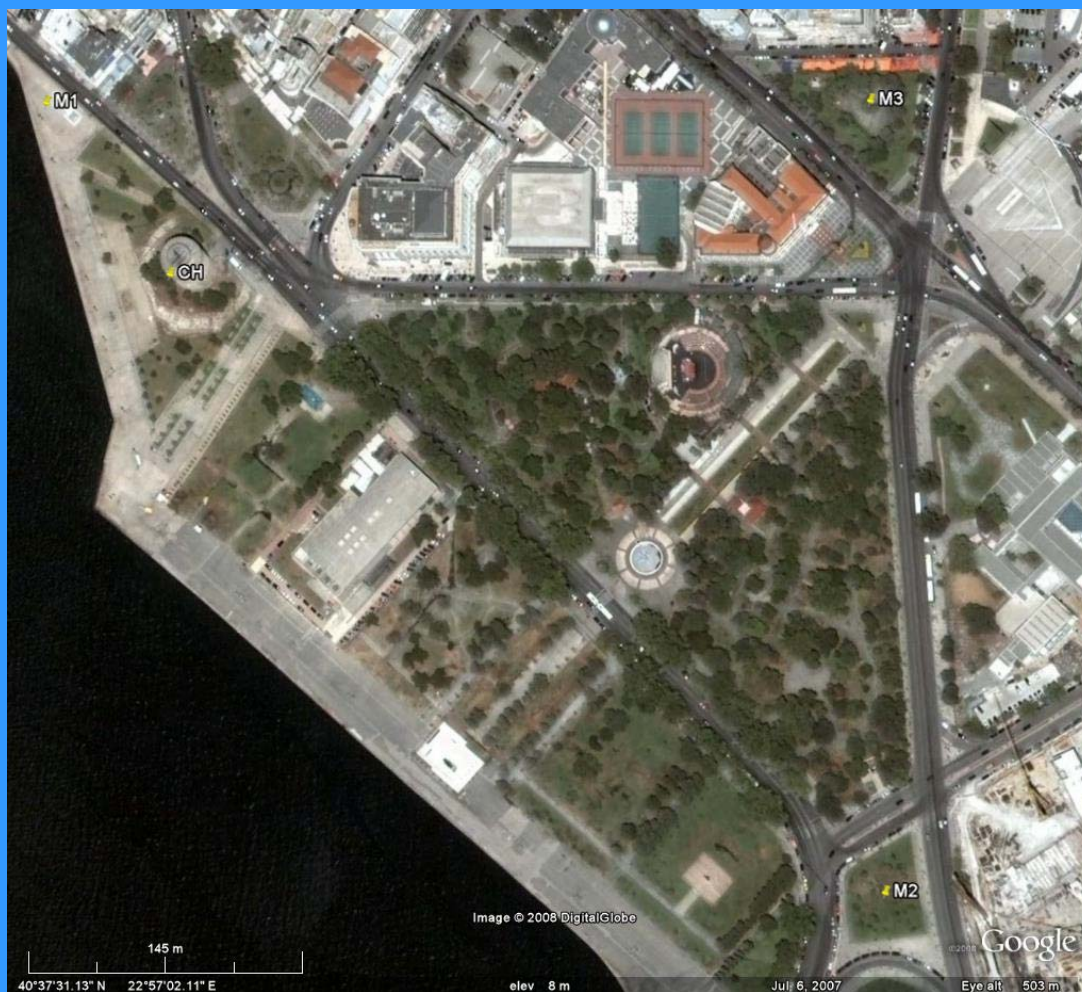
CMG-6TD



CMG Serial Server / UPS

(Guralp Systems)

Fieldwork



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