

NATIONAL & KAPODISTRIAN UNIVERSITY OF ATHENS
SCHOOL OF SCIENCE – FACULTY OF GEOLOGY & GEOENVIRONMENT
DEPARTMENT OF DYNAMIC, TECTONIC & APPLIED GEOLOGY

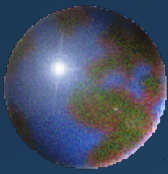
Dr. LEKKAS EFTHYMIS
PROFESSOR OF
DYNAMIC TECTONIC APPLIED GEOLOGY

Dr. CARYDIS PANAGIOTIS
PROFESSOR OF
EARTHQUAKE ENGINEERING
PROFESSOR EMERITUS

PRELIMINARY REPORT

VAN EARTHQUAKE - TURKEY (Mw 7.2 - 23 OCT 2011)

ATHENS 2011



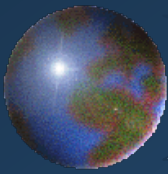
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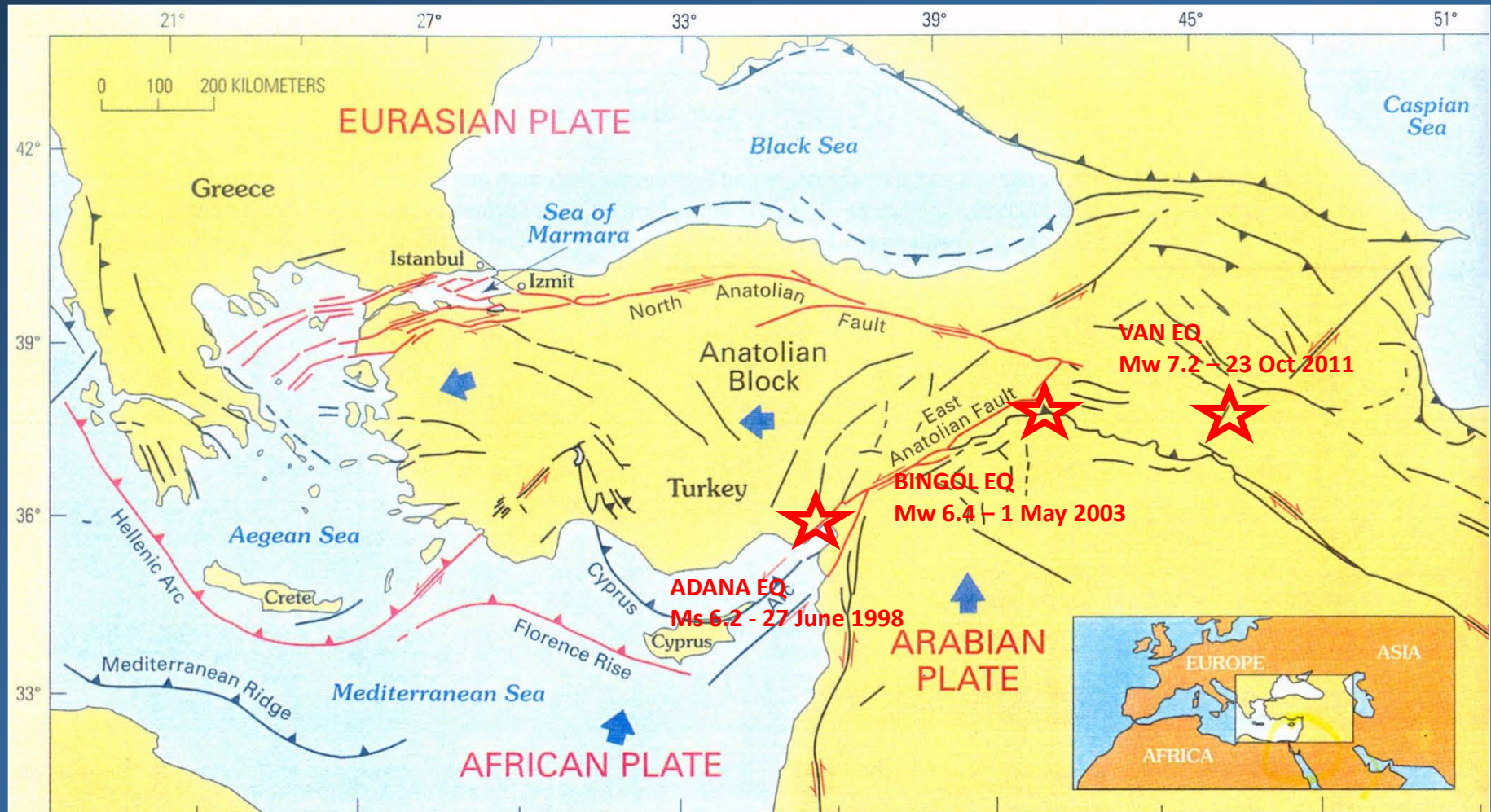
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VAN EARTHQUAKE - TURKEY (M_w 7.2 - 23 OCT 2011)
SEISMOTECTONIC SETTINGS - DATA

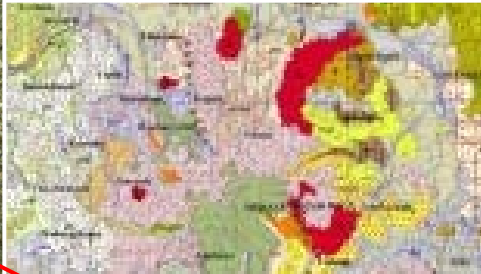
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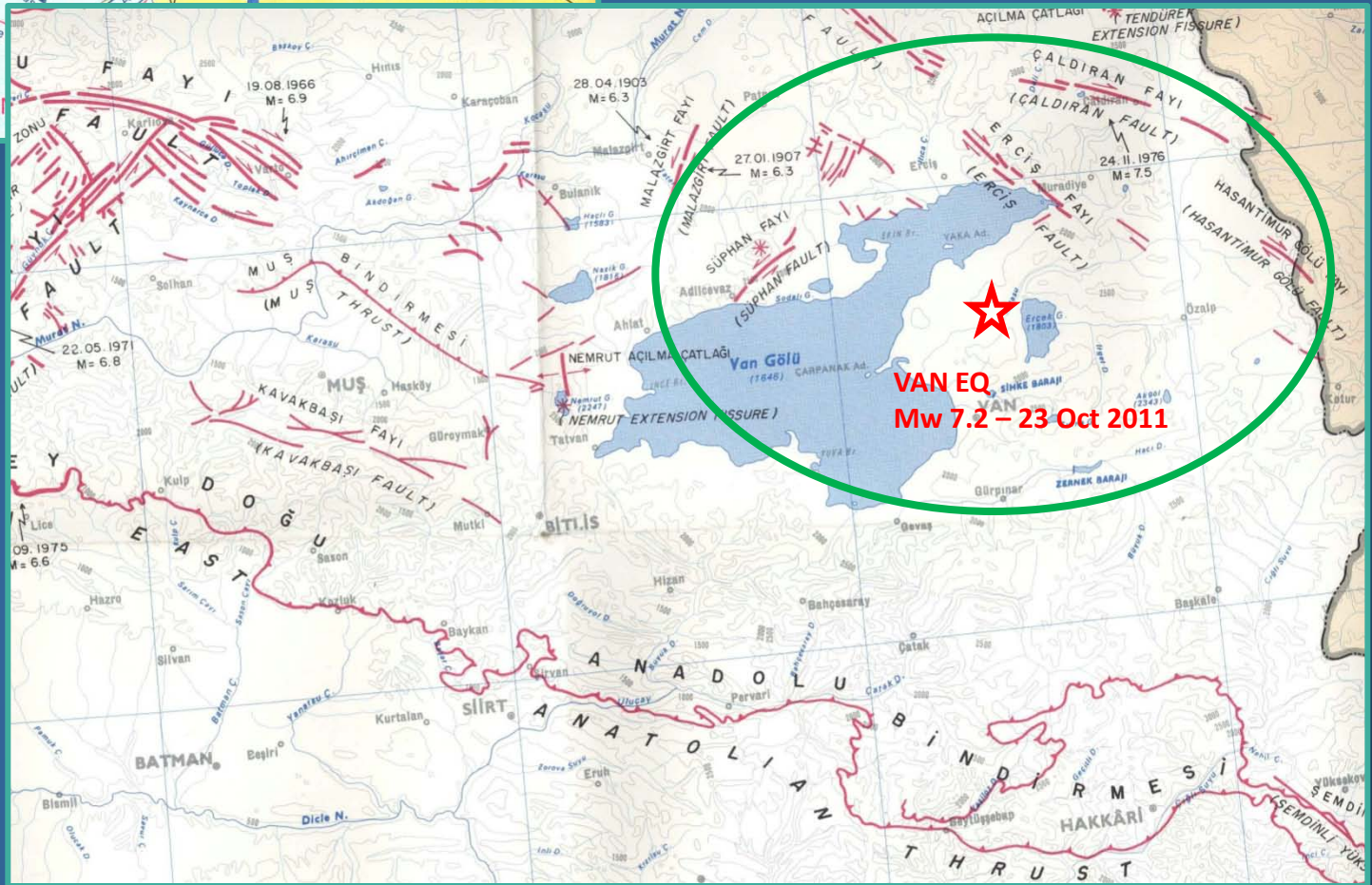
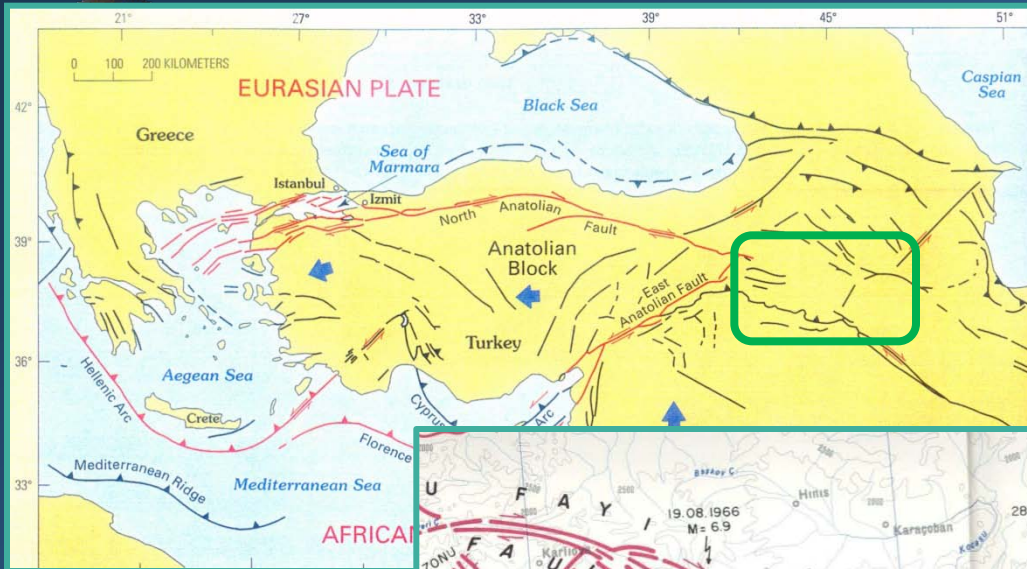
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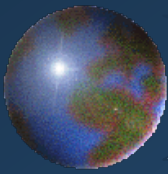


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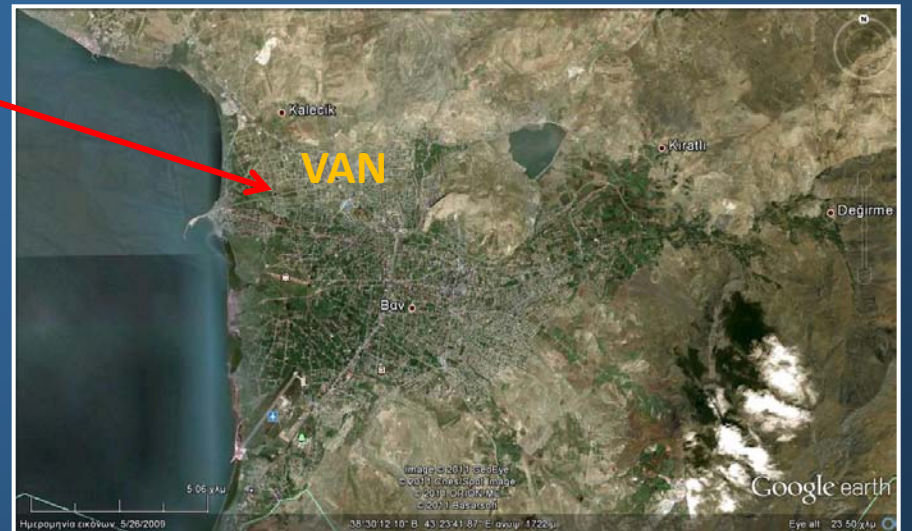
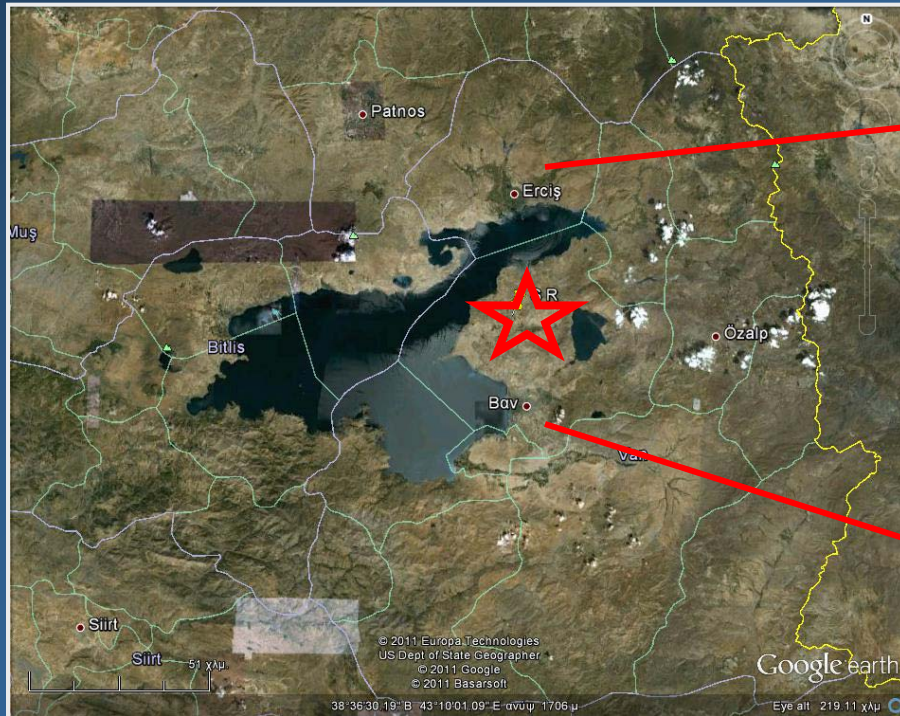


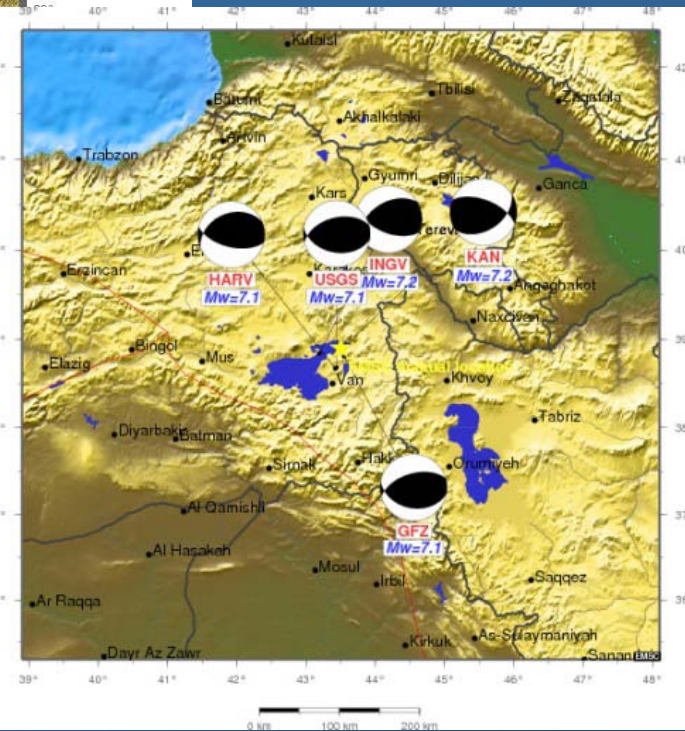
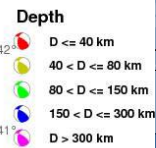
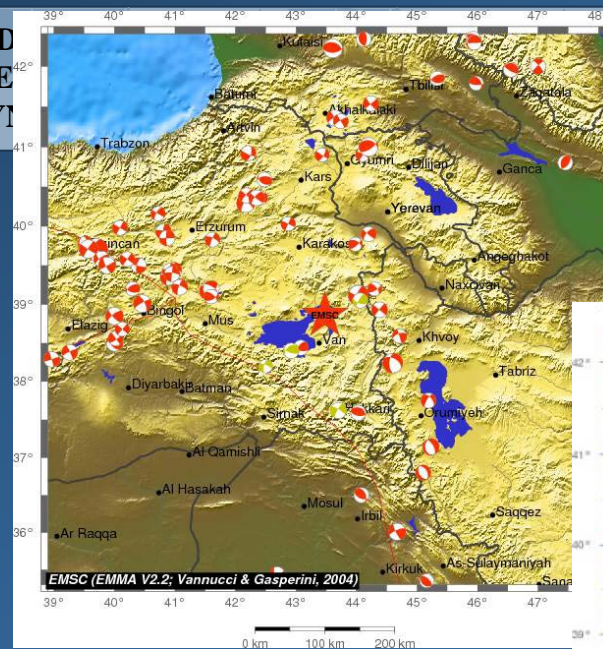
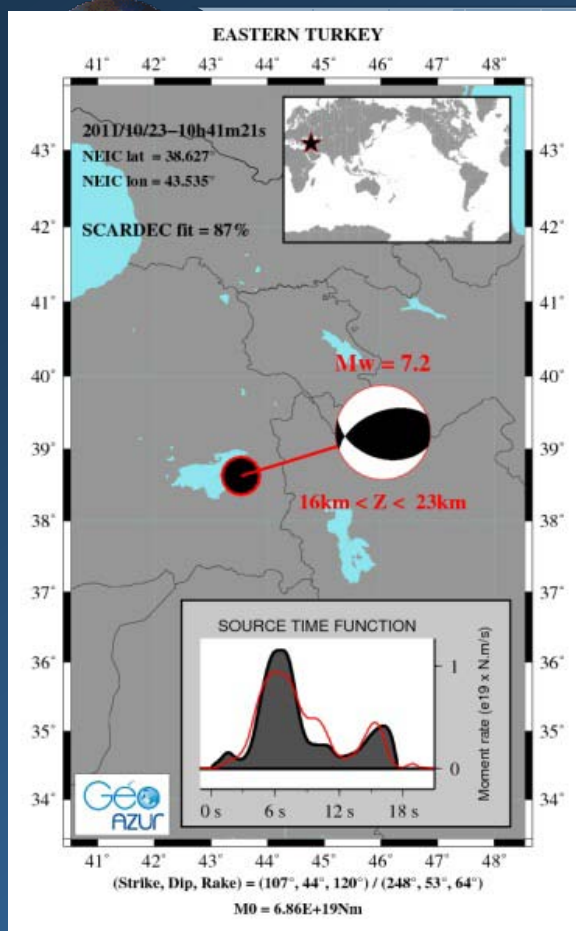
GOVERNMENT





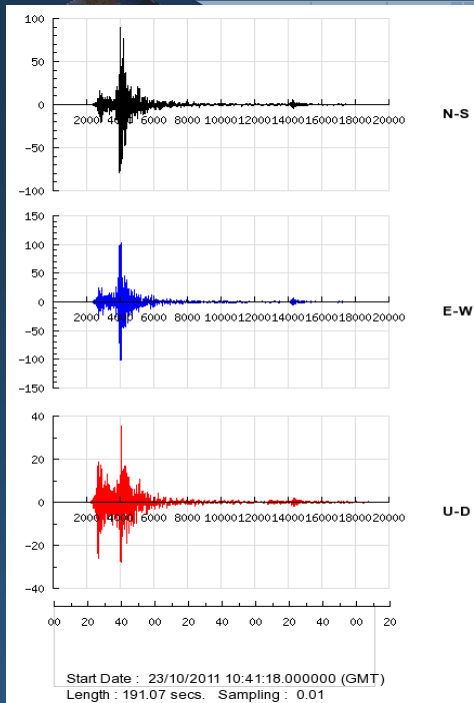
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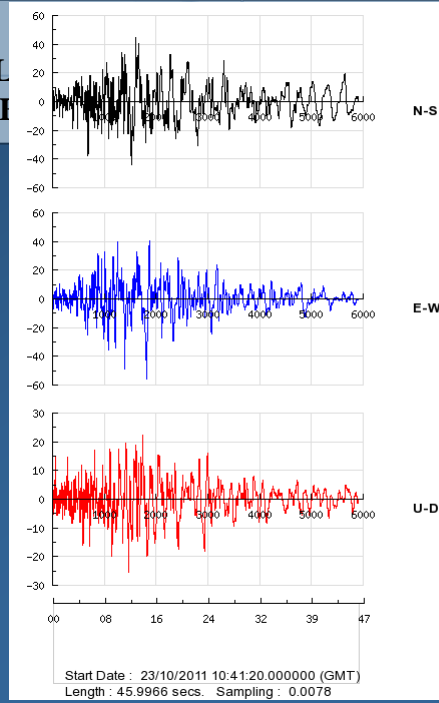


	Strike (°)	Dip (°)	Lon (°)	Lat (°)	Rake (°)	M ₀ (N·m)	M _w	Slip Peak (m)
Model 1	107	47	43.40	38.78	106	4.4·10 ¹⁹	7.0	5.0
Model 2	239	54	43.33	38.56	170	8.0·10 ¹⁹	7.2	7.2

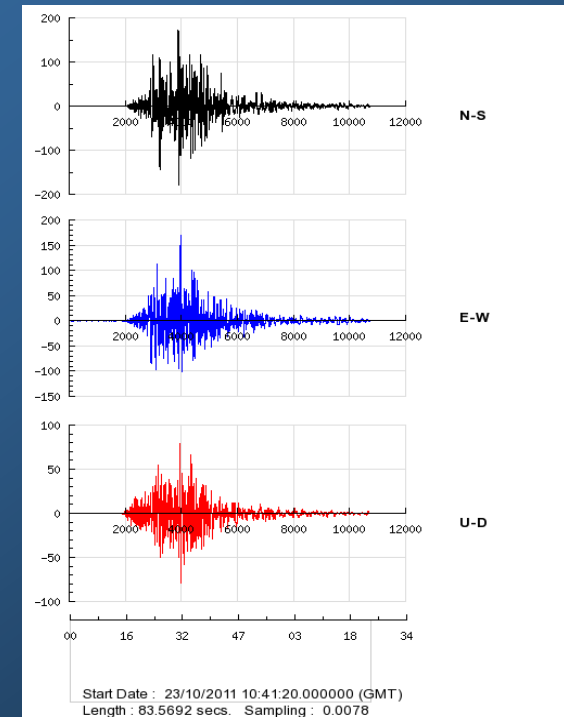
Table 1 – model parameters for the two sources. Seismic Moment, Moment magnitude and slip peak refer to the distributed slip.



**ODISTRIAN
CE – FACUL
DYNAMIC, TI**

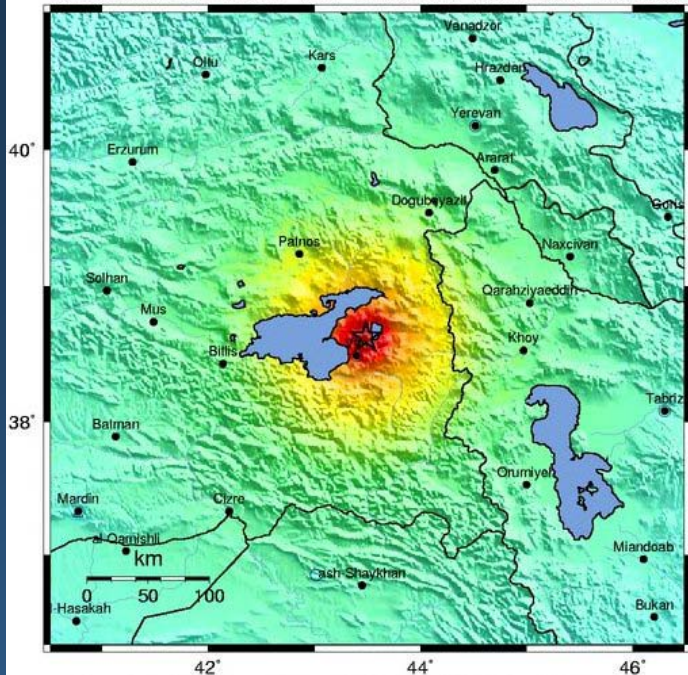


ONMENT



USGS ShakeMap : EASTERN TURKEY

Sun Oct 23, 2011 10:41:21 GMT M 7.2 N38.63 E43.49 Depth: 20.0km ID:b0006bqc

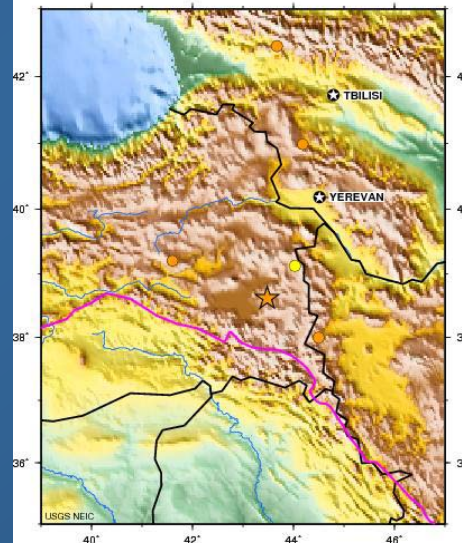
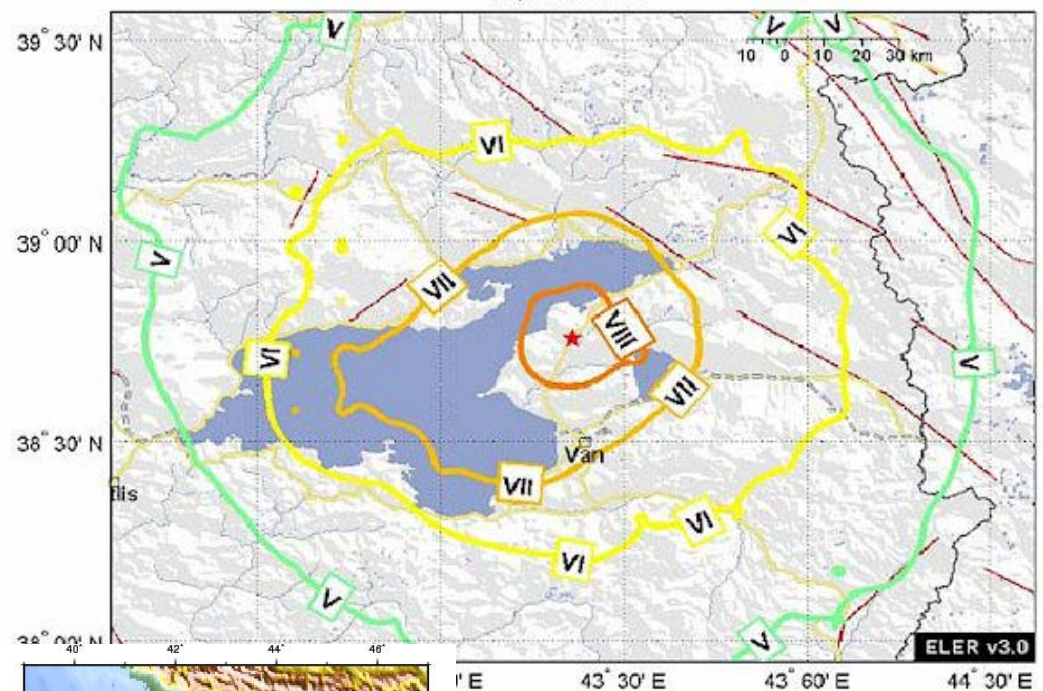


Map Version 2 Processed Sun Oct 23, 2011 06:08:44 AM MDT - NOT REVIEWED BY HUMAN

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<.17	.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
PEAK VEL.(cm/s)	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	8.1-16	16-31	31-60	60-116	>116
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Mw=7.2 Depth= 5 Lat= 38.7578 Lon= 43.3602

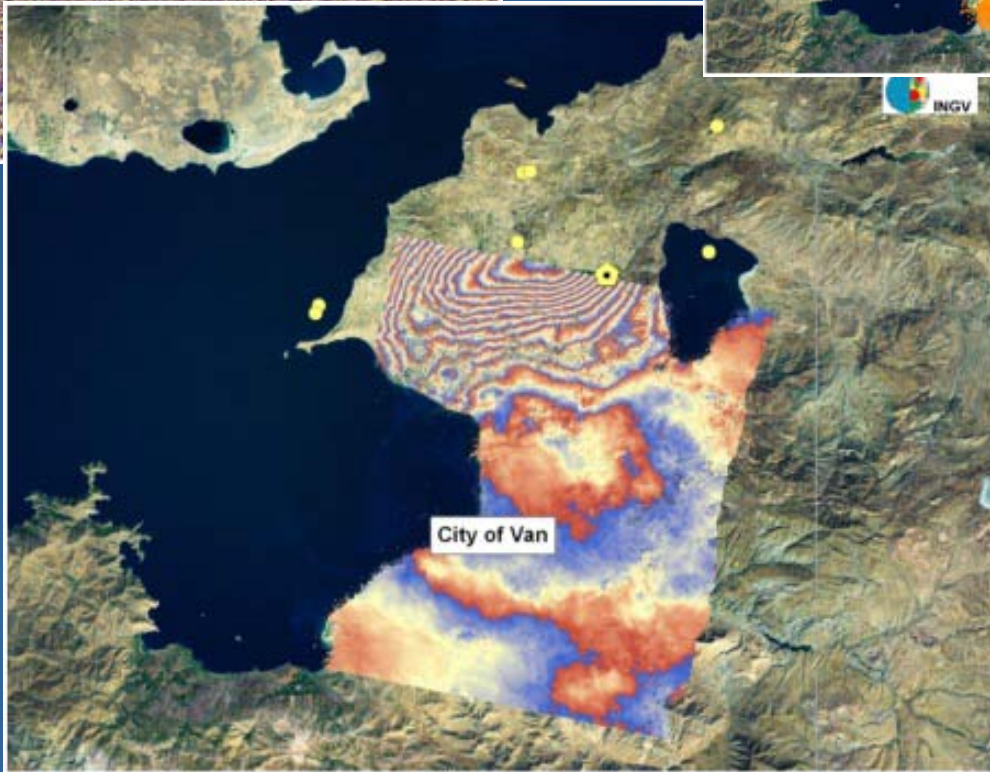
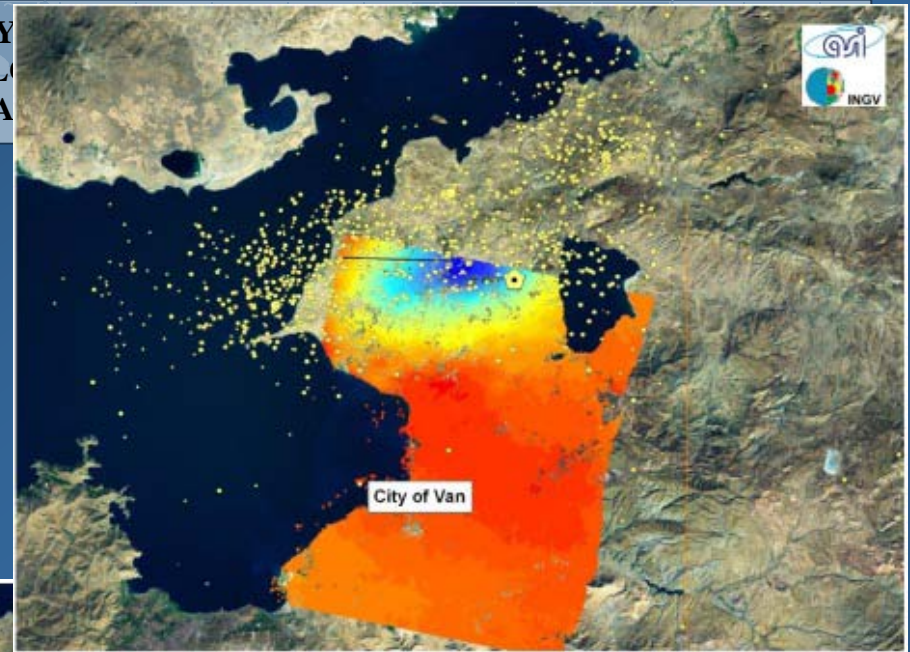
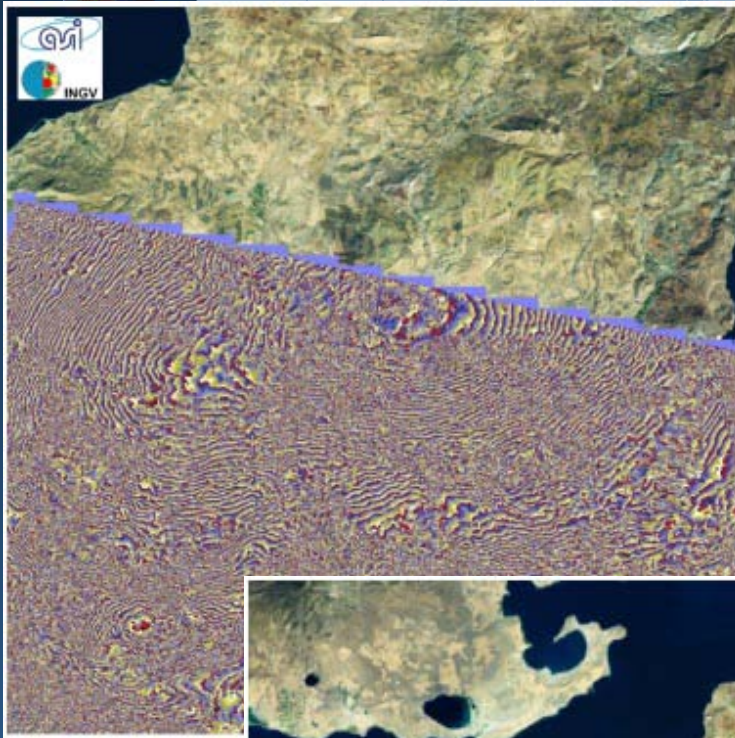
Map of: INTENS

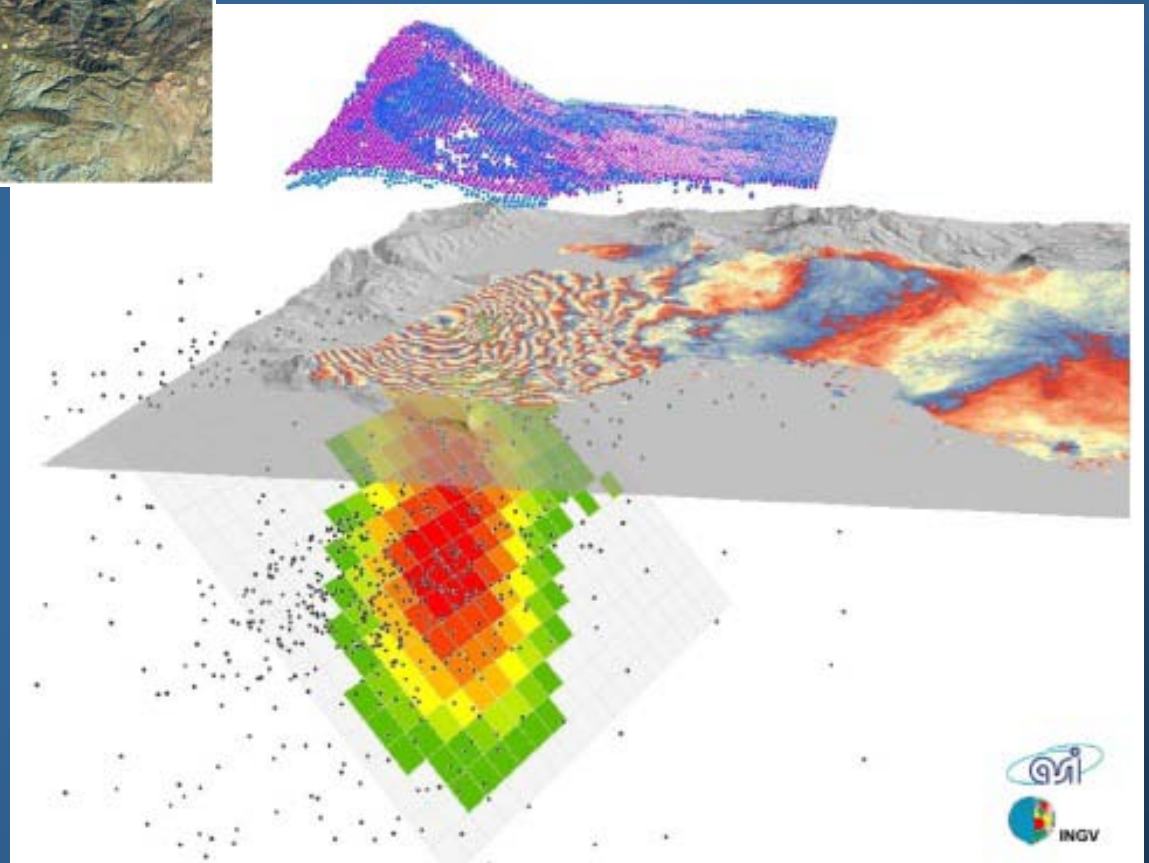
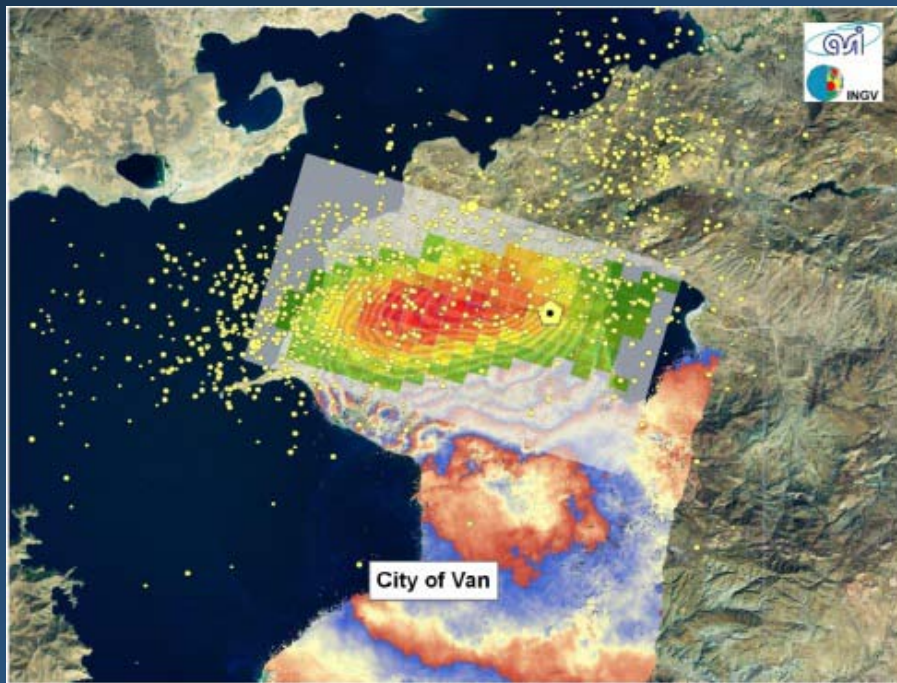


EASTERN TURKEY

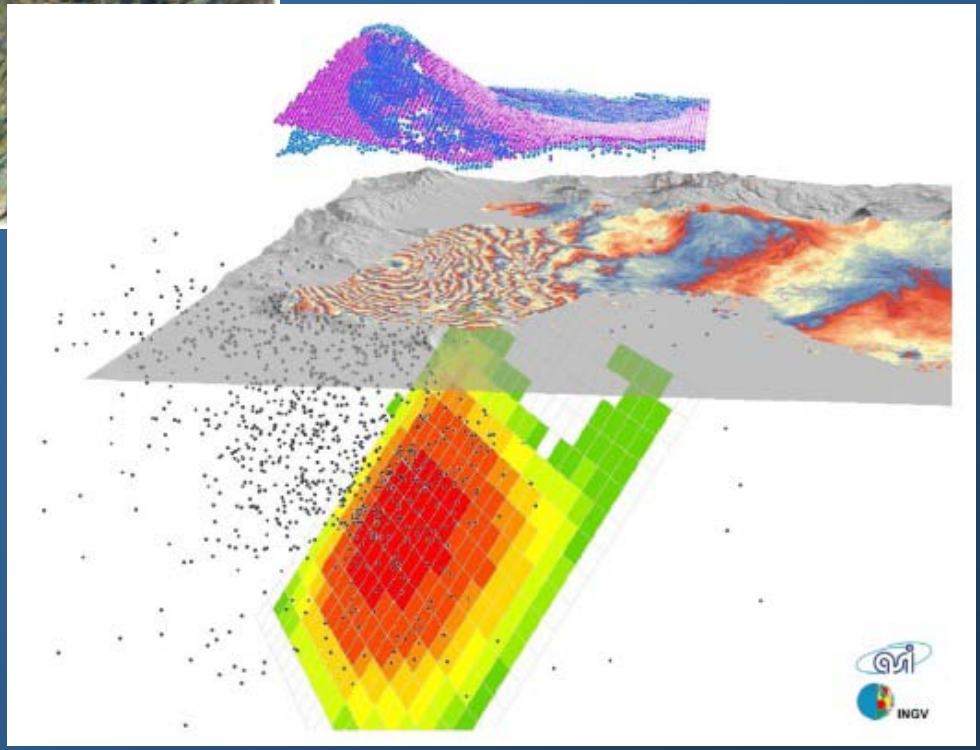
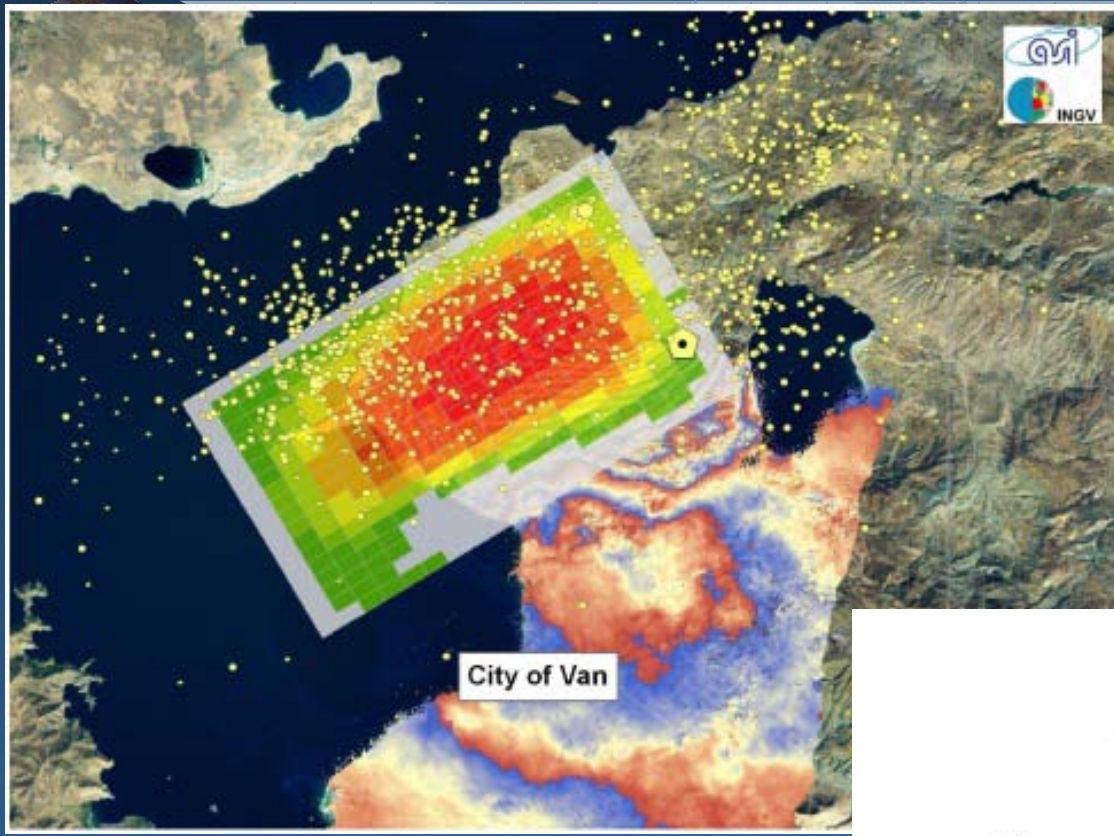
2011 10 23 10:42:21 UTC 38.62N 43.48E Depth: 20.0 km

Magnitude 7 and Greater Earthquakes Since 1900





ATZORI et al, 2011



ATZORI et al, 2011

