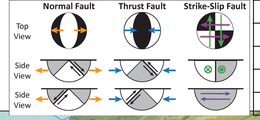
Earthquake Report: 2020.05.02

M 6.6 Crete (& USGS Seismicity 1920-2020 M ≥ 6)



SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV(cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10+

Italy
Greece
Turkey
Anatolia plate
Africa plate
Crete
Lerapetra
Hellenic Trench
Pliny Trench
Strabo Trench

2018.10.25
M 6.8

2019.11.27
M 6.0

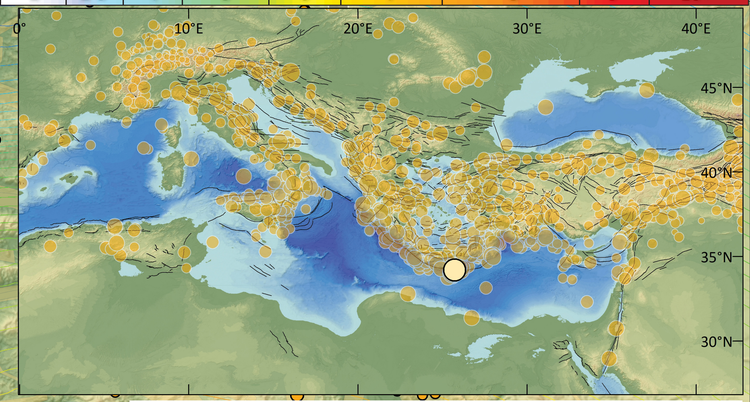
2013.10.12
M 6.6

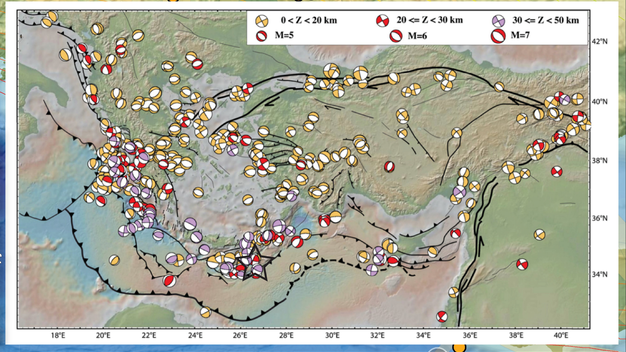
2004.03.17
M 6.1

2013.06.15
M 6.2

2013.06.16
M 6.0

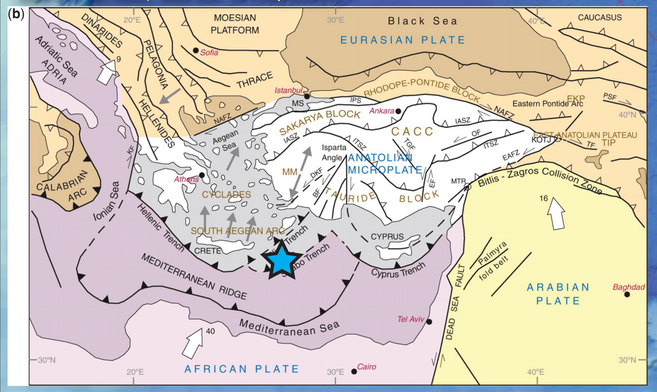
2020.05.02
M 6.6





Jolivet et al., 2013
doi:10.1016/j.tecto.2012.06.011

Dilek and San dovol, 2009 DOI: 10.1144/SP327.8



2 May 2020 M 6.6

Seismicity (6 month - EMSC)
- 0.3 - 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 6.6

Seismicity (1 century - USGS)
- 6.0 - 6.5
- 6.6 - 7.0
- 7.1 - 7.8

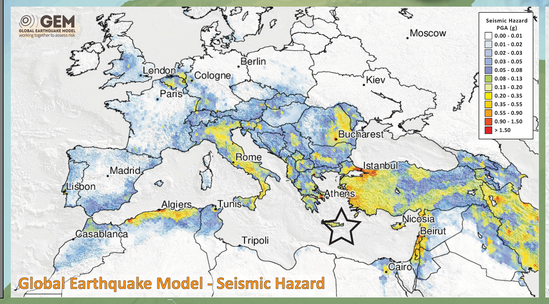
Fault (EDSF V5)

Depth to Slab (km)
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

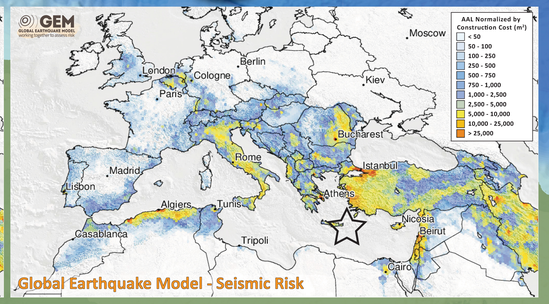
Elevation: GMRT Ryan et al., 2009 DOI: 10.1029/2008GC002332
Faults: European Database of Seismogenic Faults (EDSF)
Basili et al., 2013 DOI: 10.6092/INGV.IT-SHARE-EDSF

0 37.5 75 150 Miles
0 50 100 200 Kilometers

CSEM EMSC
EFEHR
EPOS EUROPEAN PLATE OBSERVING SYSTEM
SERA Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe
Jason R. Patton earthjay.com © 2020
USGS science for a changing world



Global Earthquake Model - Seismic Hazard



Global Earthquake Model - Seismic Risk

