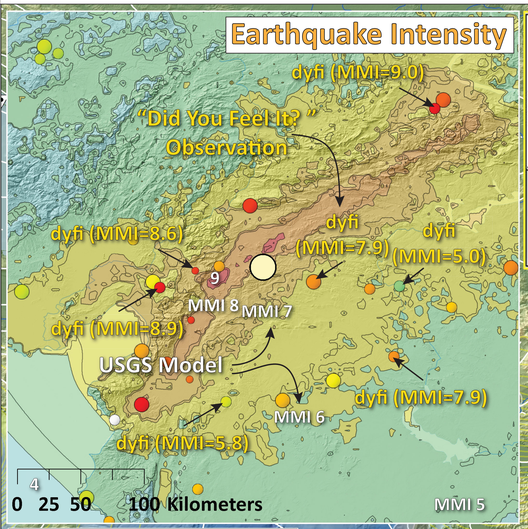
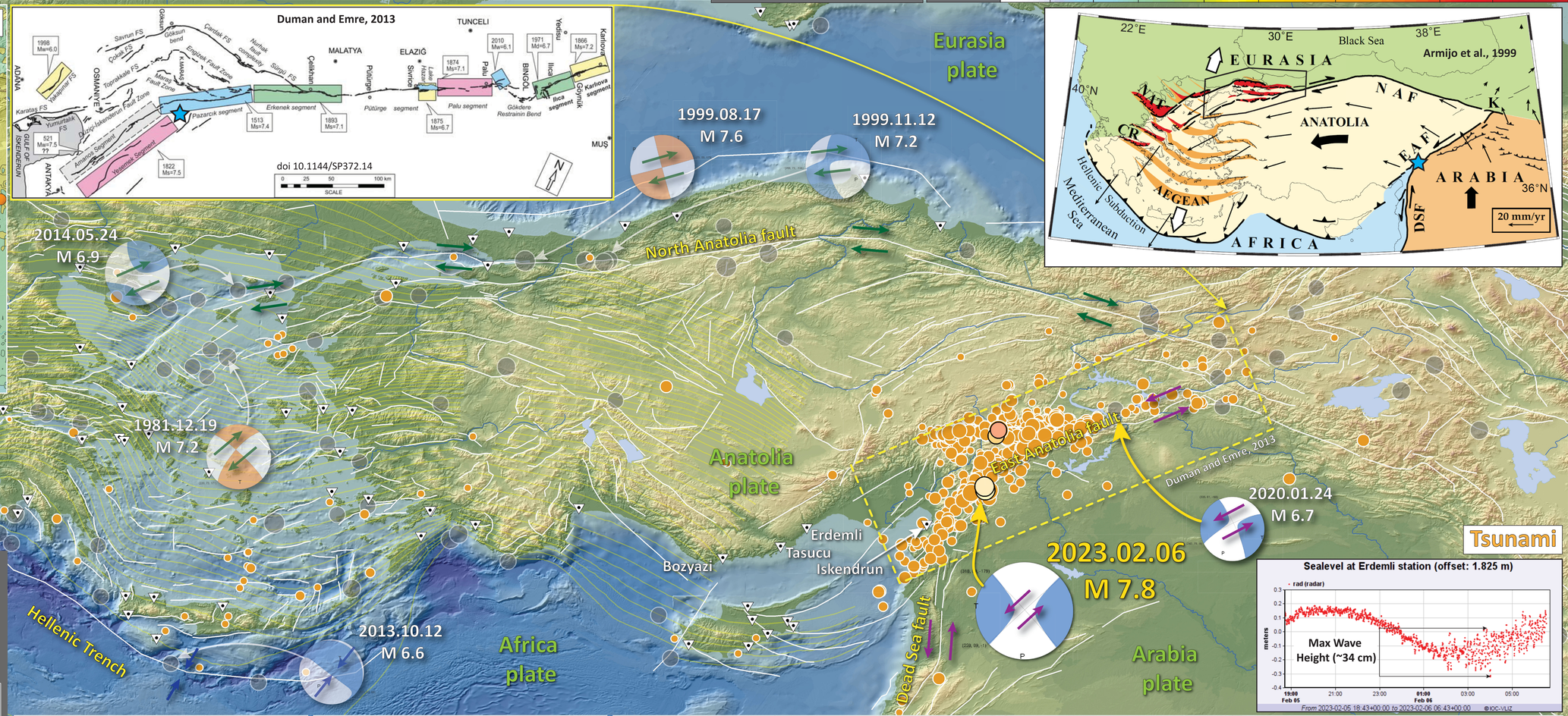
Earthquake Report: 2023.02.06
M 7.8 (EMSC) Turkey (& USGS Seismicity 1923-2023 M ≥ 6.5)

Mechanism Types: Normal Fault, Thrust Fault, Strike-Slip Fault (Top View, Side View)

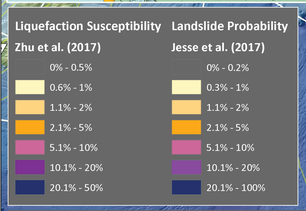
SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10

Earthquake Intensity





Tsunami



Sea Level Sensor

6 Feb '22 M 7.8 (EMSC)

6 Feb '22 M 7.8 (USGS)

6 Feb '22 M 7.5 (EMSC)

6 Feb '22 M 7.5 (USGS)

Seismicity (USGS - 1 century)
magnitude
6.5 - 7.0
7.1 - 7.5
7.6 - 8.1

Seismicity (EMSC - 3 day)
magnitude
0.5 - 1.0
1.1 - 2.0
2.1 - 3.0
3.1 - 4.0
4.1 - 5.0
5.1 - 6.0
6.1 - 7.0
7.1 - 7.8

Elevation: High / Low
Depth: Shallow / Deep

Fault
GEM
Slab Contour

Elevation:
GMRT - Ryan et al. (2009)
ALOS World 3D"(AW3D)
Faults:
1 - Global Earthquake Model (GEM)
2 - SHARE - Giardini et al., 2013
doi: 10.12686/SED-00000001-SHARE

0 50 100 200 Miles
0 62.5 125 250 Kilometers

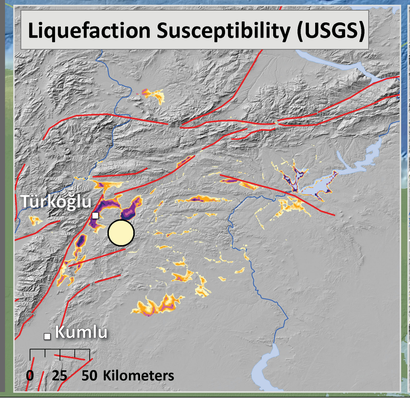
CSEM EMSC

GEM Global Earthquake Model, working together to assess risk

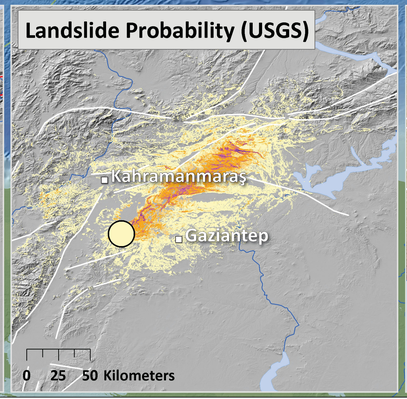
Jason R. Patton
earthjay.com © 2023

USGS science for a changing world

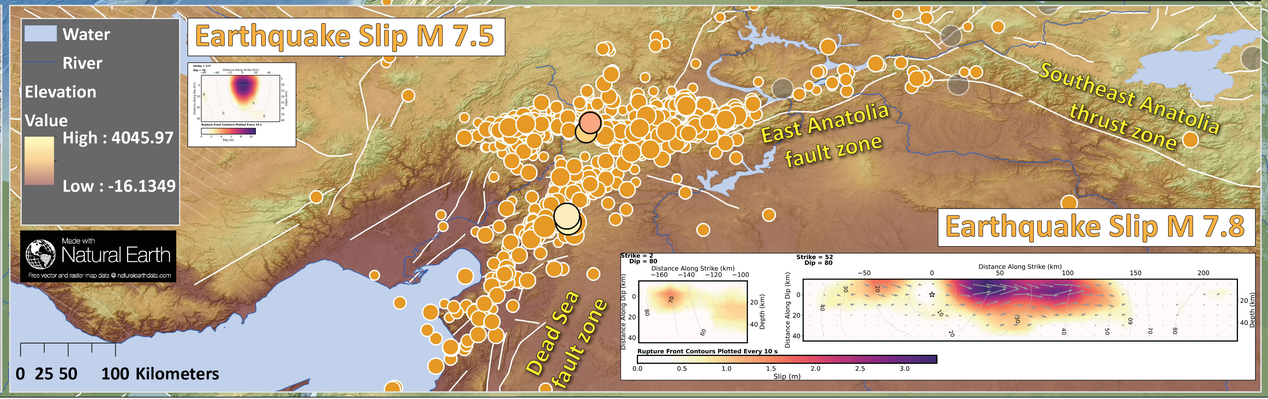
Liquefaction Susceptibility (USGS)



Landslide Probability (USGS)



Earthquake Slip M 7.5



Earthquake Slip M 7.8