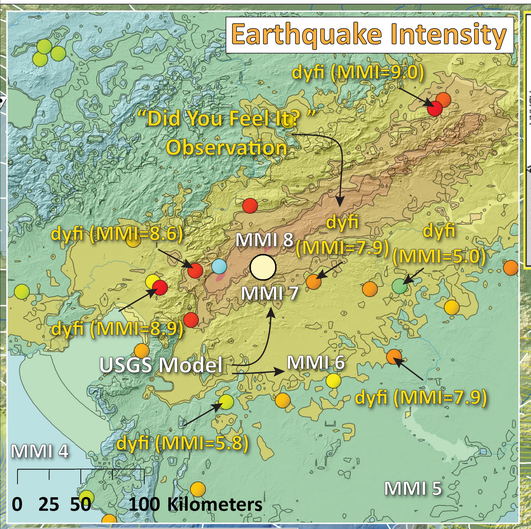
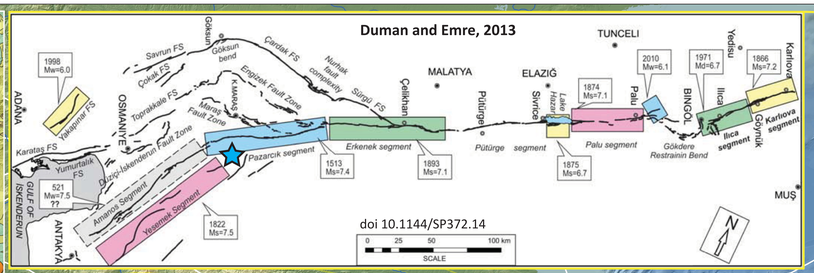
Earthquake Report: 2023.02.06
M 7.8 (EMSC) Turkey (& USGS Seismicity 1923-2023 M ≥ 6.5)

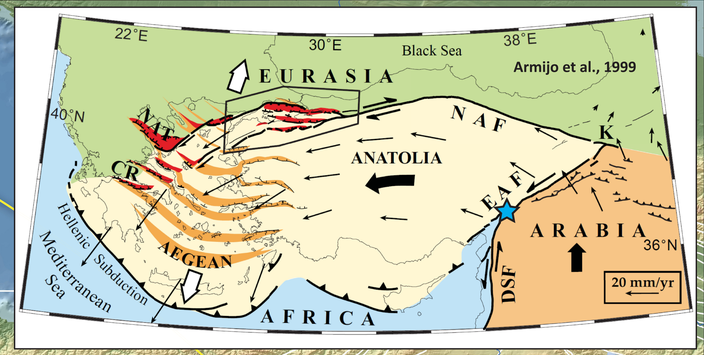
Mechanism Types: Normal Fault, Thrust Fault, Strike-Slip Fault (Top View / Side View)

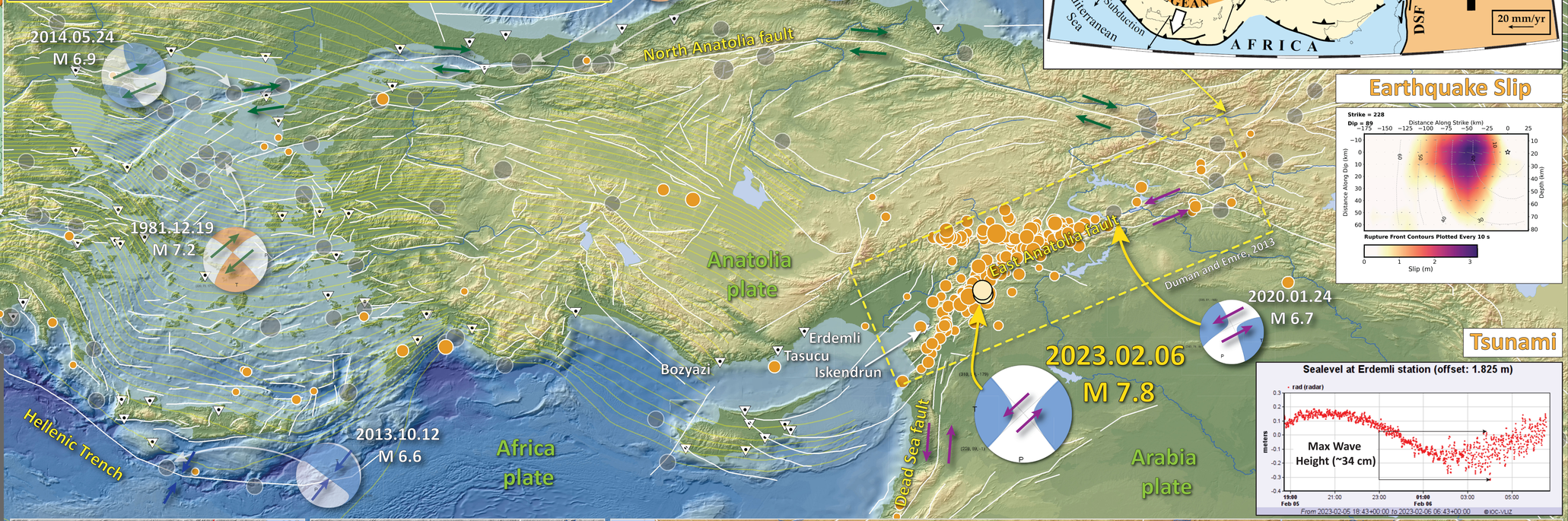
SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10

Earthquake Intensity









Earthquake Slip

Tsunami

Liquefaction Susceptibility Zhu et al. (2017)	Landslide Probability Jesse et al. (2017)
0% - 0.5%	0% - 0.2%
0.6% - 1%	0.3% - 1%
1.1% - 2%	1.1% - 2%
2.1% - 5%	2.1% - 5%
5.1% - 10%	5.1% - 10%
10.1% - 20%	10.1% - 20%
20.1% - 50%	20.1% - 100%

- 6 Feb '22 M 7.8 (EMSC)
- 6 Feb '22 M 7.8 (USGS)

Seismicity (EMSC - 1 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

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

Fault
- GEM
- Slab Contour
- Sea Level Sensor

Elevation: High / Low; Depth: Shallow / Deep

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

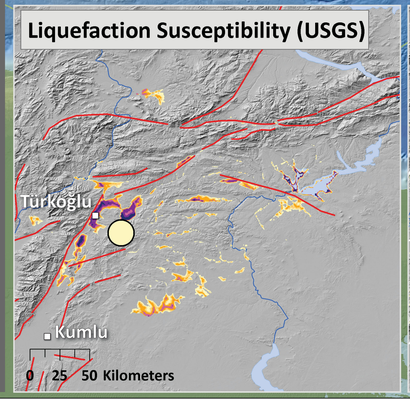
CSEM EMSC

GEM Global Earthquake Model — working together to assess risk

Jason R. Patton
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USGS science for a changing world

Liquefaction Susceptibility (USGS)



Landslide Probability (USGS)

