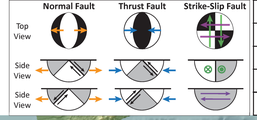
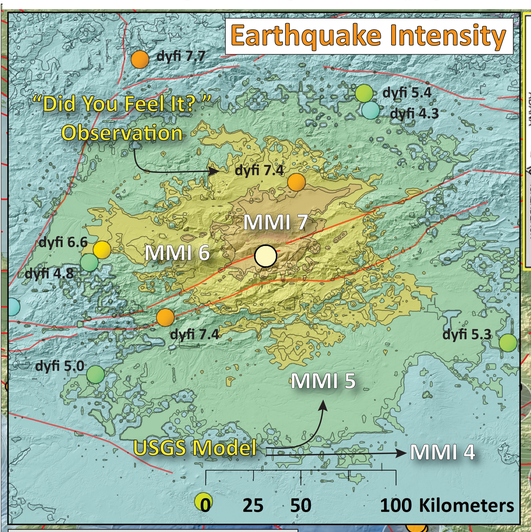
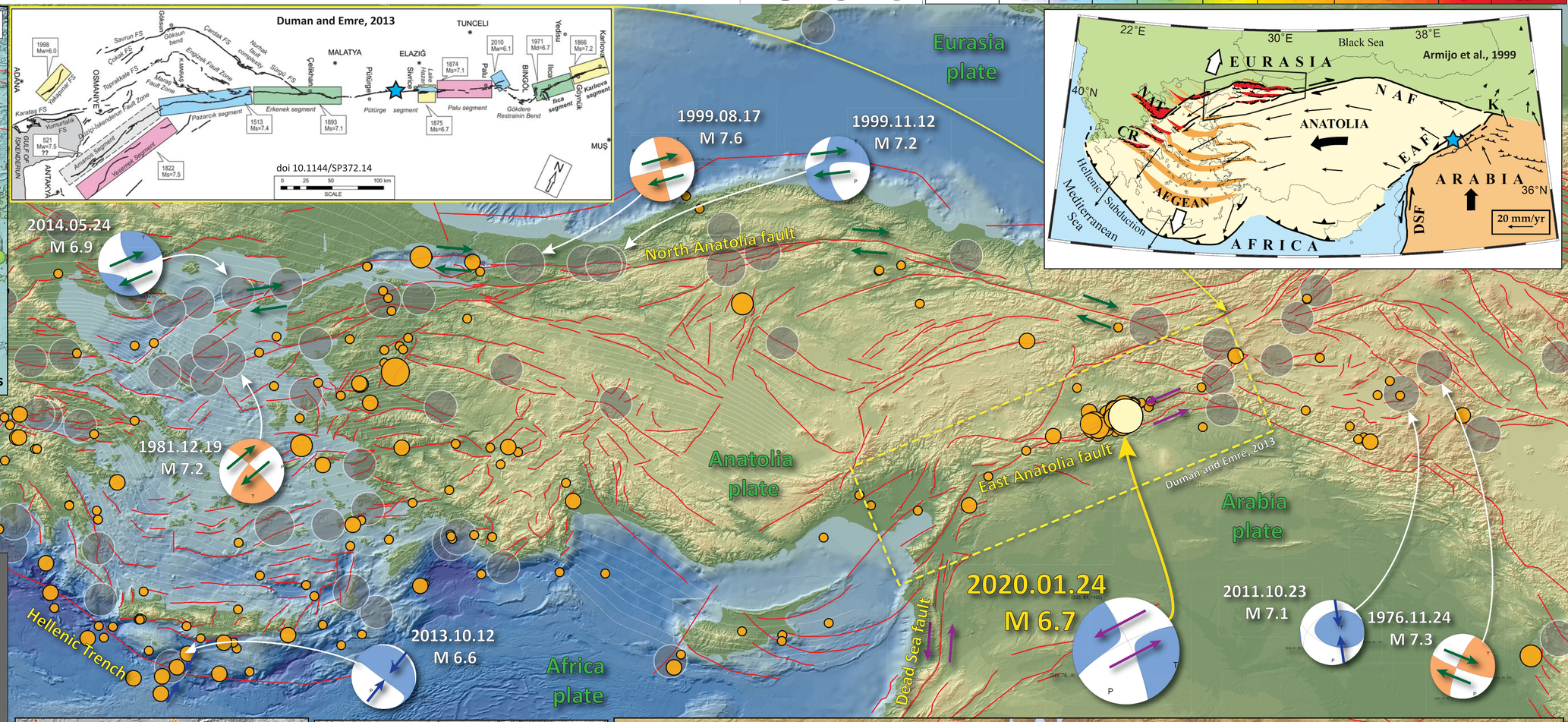
Earthquake Report: 2020.01.24
M 6.8 (EMSC) Turkey (& USGS Seismicity 1920-2020 M ≥ 6.5)



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+





Liquefaction Susceptibility	Landslide Probability
Zhu et al. (2017)	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%

24 Jan 2020 M 6.8

Seismicity (EMSC - 1 month)
- 1.8 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 6.8

Seismicity (USGS - 100 year)
- 6.5 - 7.0
- 7.1 - 7.5
- 7.6 - 7.8

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
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