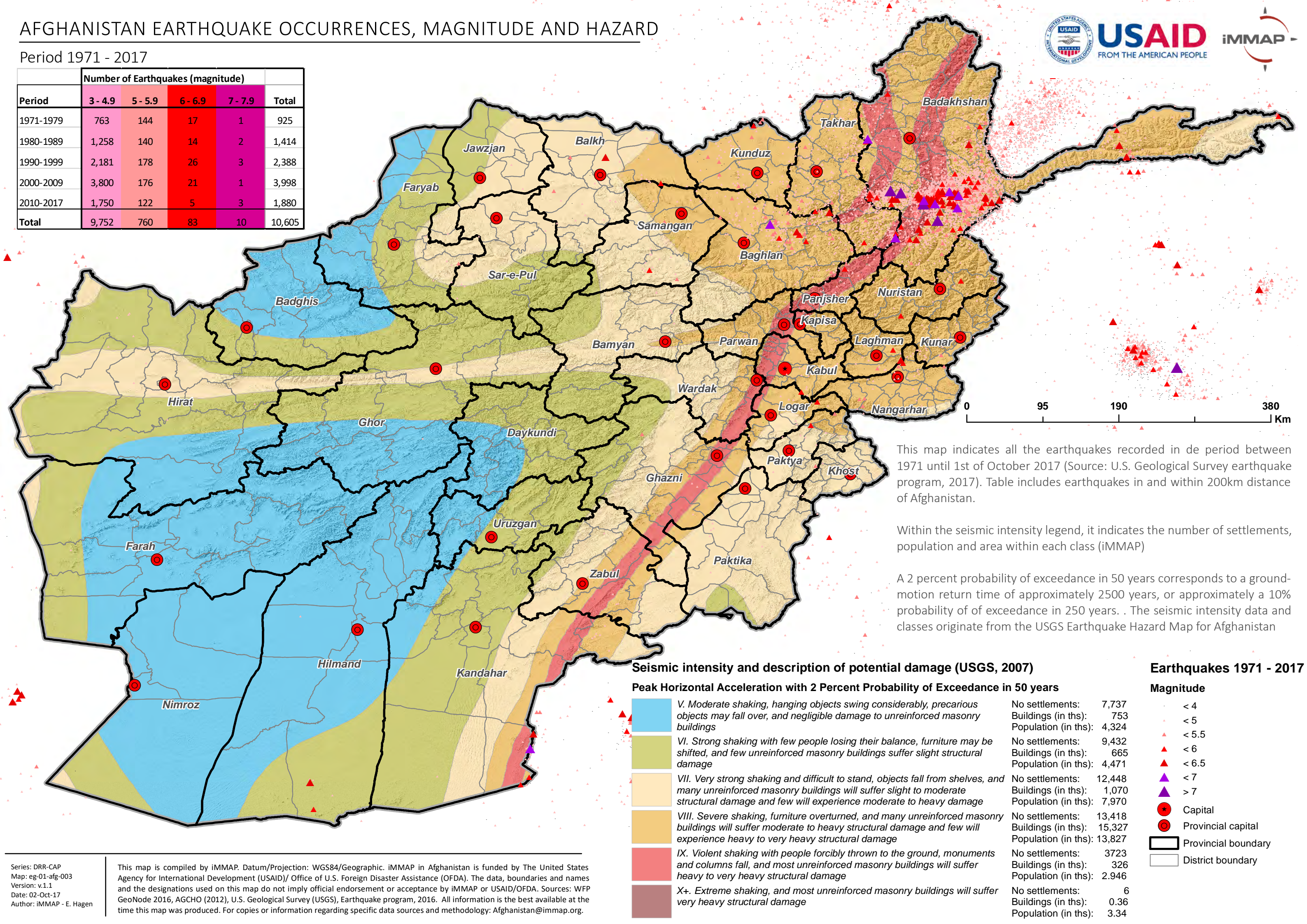


AFGHANISTAN EARTHQUAKE OCCURRENCES, MAGNITUDE AND HAZARD

Period 1971 - 2017

Period	Number of Earthquakes (magnitude)				Total
	3 - 4.9	5 - 5.9	6 - 6.9	7 - 7.9	
1971-1979	763	144	17	1	925
1980-1989	1,258	140	14	2	1,414
1990-1999	2,181	178	26	3	2,388
2000-2009	3,800	176	21	1	3,998
2010-2017	1,750	122	5	3	1,880
Total	9,752	760	83	10	10,605



This map indicates all the earthquakes recorded in the period between 1971 until 1st of October 2017 (Source: U.S. Geological Survey earthquake program, 2017). Table includes earthquakes in and within 200km distance of Afghanistan.

Within the seismic intensity legend, it indicates the number of settlements, population and area within each class (iMMAP)

A 2 percent probability of exceedance in 50 years corresponds to a ground-motion return time of approximately 2500 years, or approximately a 10% probability of exceedance in 250 years. The seismic intensity data and classes originate from the USGS Earthquake Hazard Map for Afghanistan

Seismic intensity and description of potential damage (USGS, 2007)

Peak Horizontal Acceleration with 2 Percent Probability of Exceedance in 50 years

V. Moderate shaking, hanging objects swing considerably, precarious objects may fall over, and negligible damage to unreinforced masonry buildings	No settlements: 7,737 Buildings (in ths): 753 Population (in ths): 4,324
VI. Strong shaking with few people losing their balance, furniture may be shifted, and few unreinforced masonry buildings suffer slight structural damage	No settlements: 9,432 Buildings (in ths): 665 Population (in ths): 4,471
VII. Very strong shaking and difficult to stand, objects fall from shelves, and many unreinforced masonry buildings will suffer slight to moderate structural damage and few will experience moderate to heavy damage	No settlements: 12,448 Buildings (in ths): 1,070 Population (in ths): 7,970
VIII. Severe shaking, furniture overturned, and many unreinforced masonry buildings will suffer moderate to heavy structural damage and few will experience heavy to very heavy structural damage	No settlements: 13,418 Buildings (in ths): 15,327 Population (in ths): 13,827
IX. Violent shaking with people forcibly thrown to the ground, monuments and columns fall, and most unreinforced masonry buildings will suffer heavy to very heavy structural damage	No settlements: 3723 Buildings (in ths): 326 Population (in ths): 2,946
X+. Extreme shaking, and most unreinforced masonry buildings will suffer very heavy structural damage	No settlements: 6 Buildings (in ths): 0.36 Population (in ths): 3.34

Earthquakes 1971 - 2017

Magnitude

< 4
< 5
< 5.5
< 6
< 6.5
< 7
> 7
Capital
Provincial capital
Provincial boundary
District boundary