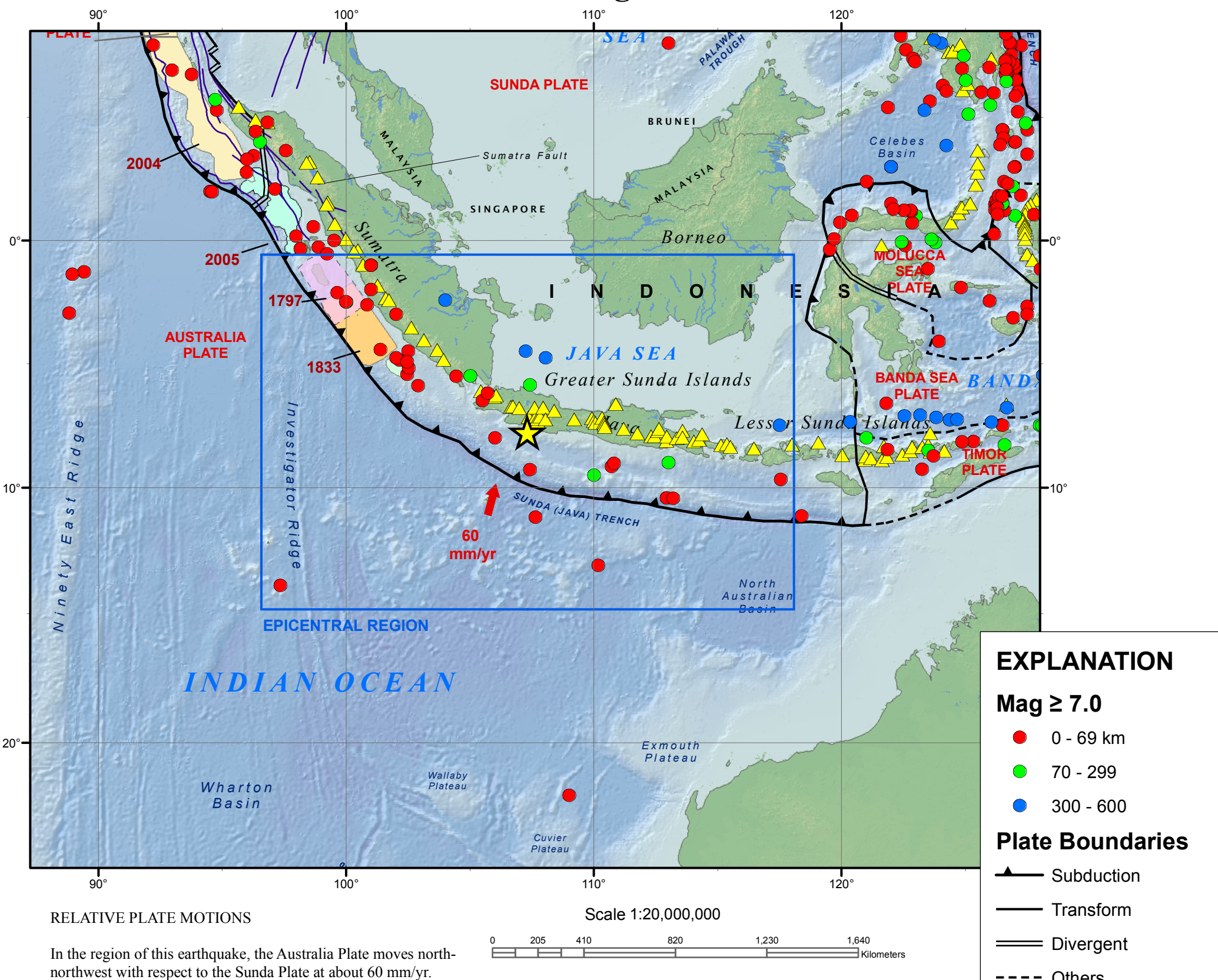


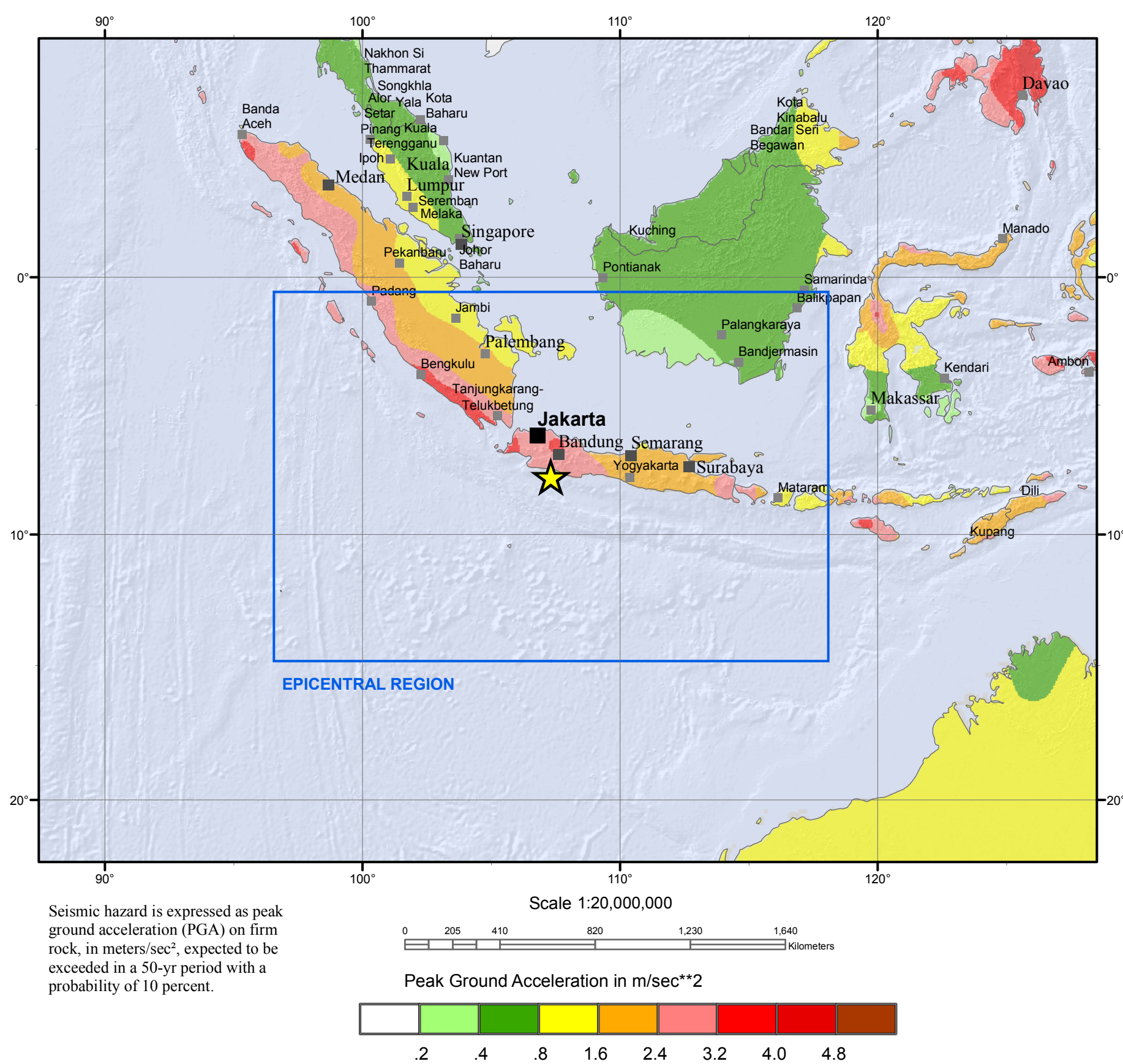
M7.0 Java, Indonesia Earthquake of 2 September 2009



Tectonic Setting

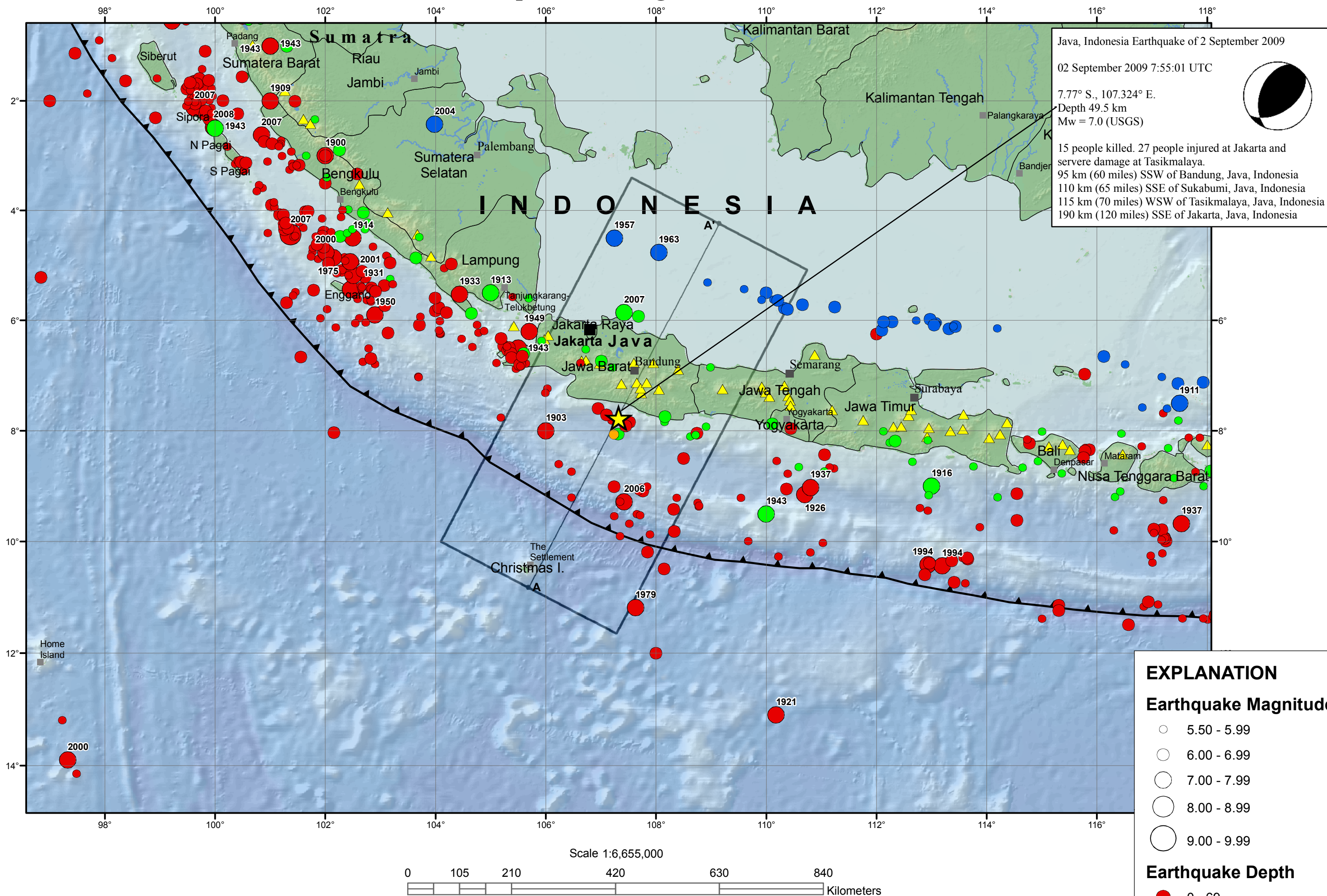


Seismic Hazard



Seismic hazard is expressed as peak ground acceleration (PGA) on firm rock, in meters/sec², expected to be exceeded in a 50-yr period with a probability of 10 percent.

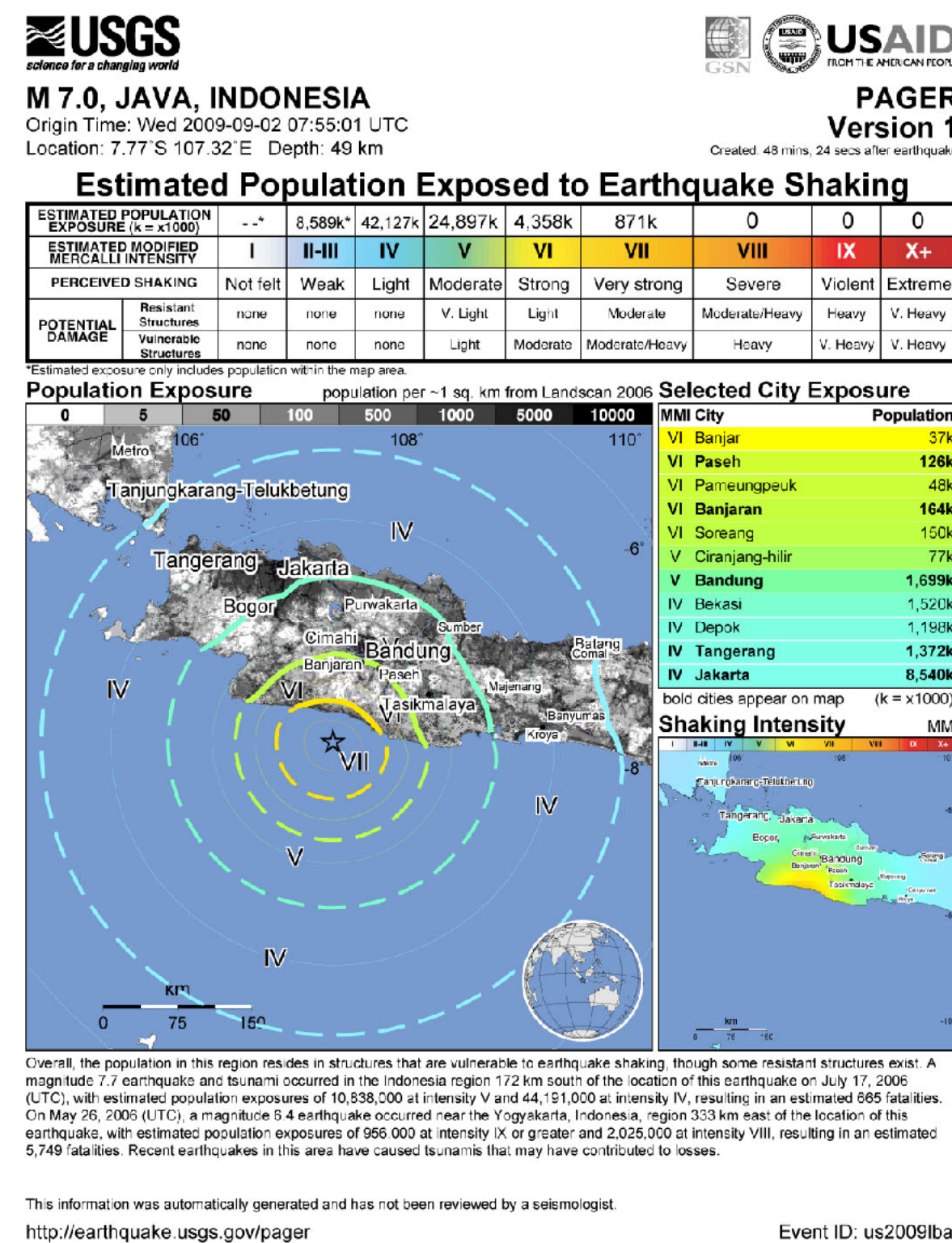
Epicentral Region

Significant Earthquakes Mag ≥ 7.0

Year	Mon	Day	Time	Lat	Long	Dep	Mag
1900	01	05	1900	-3.000	102.000	0	7.0
1903	02	27	0043	-8.000	106.000	0	7.3
1909	06	03	1840	-2.000	101.000	0	7.2
1911	07	05	1840	-7.500	117.500	370	7.0
1913	08	13	0425	-5.500	105.000	75	7.3
1914	06	25	1907	-4.500	102.500	0	7.6
1916	09	11	0630	-9.000	113.000	100	7.1
1921	09	11	0401	-13.095	110.177	25	7.3
1926	09	10	1034	-9.152	110.701	35	7.0
1931	02	10	0634	-5.433	102.458	35	7.1
1931	09	25	0559	-5.178	102.511	35	7.3
1933	06	24	2154	-5.522	104.434	35	7.3
1937	08	11	0055	-9.675	117.533	35	7.2
1937	09	27	0855	-9.027	110.802	35	7.0
1943	04	01	1418	-6.500	105.500	0	7.1
1943	06	08	2042	-1.000	101.000	50	7.2
1943	06	09	0306	-1.000	101.000	50	7.5
1943	07	23	1453	-9.500	110.000	90	7.6
1943	11	26	2125	-2.500	100.000	130	7.1
1949	06	24	2238	-6.200	105.700	65	7.0
1950	03	27	2118	-5.900	102.900	0	7.0
1957	04	16	0404	-4.504	107.244	600	7.2
1963	12	15	1934	-4.764	108.050	668	7.1
1975	10	01	0330	-4.859	102.145	37.2	7.0
1979	07	24	1931	-11.185	107.628	12.1	7.0
1994	06	02	1817	-10.411	112.935	34.5	7.8
1994	06	02	1817	-10.432	113.191	35	7.1
2000	06	04	1628	-4.762	102.007	34.6	7.9
2000	06	18	1444	-13.896	97.328	7.1	7.9
2001	02	13	1928	-4.933	102.454	34	7.3
2004	07	25	1435	-2.427	103.981	582	7.3
2006	07	17	0819	-9.284	107.419	20	7.7
2007	08	09	1705	-5.859	107.419	280	7.5
2007	09	12	1110	-4.438	101.367	34	8.5
2007	09	12	2349	-2.625	100.841	35	7.9
2007	09	13	0335	-2.130	99.627	22	7.0
2008	02	25	0836	-2.486	99.972	25	7.2

DISCLAIMER

Base map data, such as place names and political boundaries, are the best available but may not be current or may contain inaccuracies and therefore should not be regarded as having official significance.

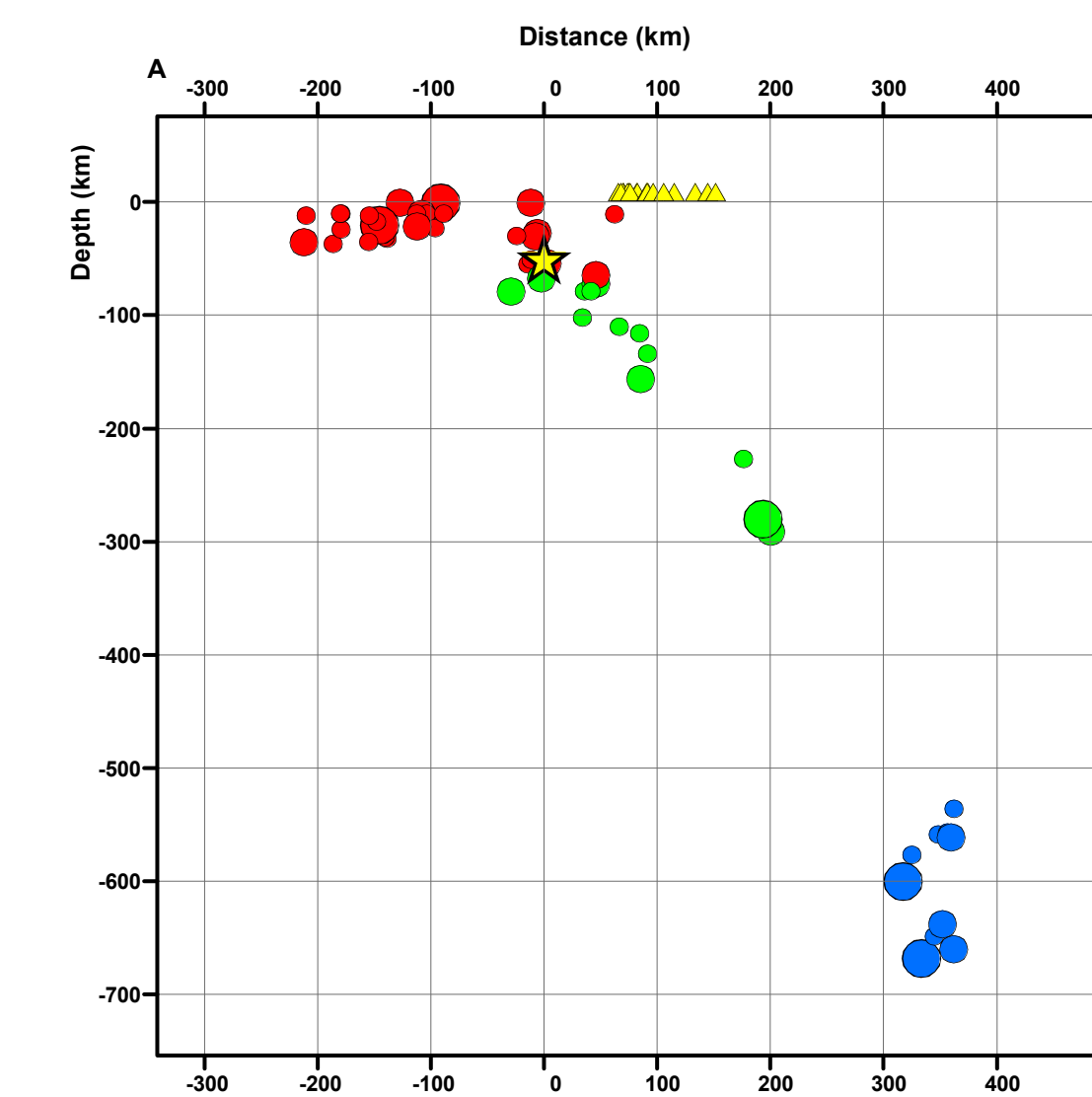


Caveat: the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 7.7 earthquake and tsunami occurred in the Indonesia region 172 km south of the location of this earthquake on July 17, 2006 (UTC), with estimated population exposures of 10,538,000 at intensity V and 44,151,000 at intensity IV, resulting in an estimated 695 fatalities. On May 26, 2008 (UTC), a magnitude 8.4 earthquake occurred near the Yogyakarta, Indonesia, region 353 km east of the location of this earthquake, with estimated population exposures of 966,000 at intensity IX or greater and 2,025,000 at intensity VIII, resulting in an estimated 5,749 fatalities. Recent earthquakes in this area have caused tsunamis that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.

<http://earthquake.usgs.gov/pager>

Event ID: us2009libat



DATA SOURCES

EARTHQUAKES AND SEISMIC HAZARD
USGS, National Earthquake Information Center
NOAA, National Geophysical Data Center
IASPEI, Centennial Catalog (1900 - 1999) and extensions (Engdahl and Villaseñor, 2002)
HDF (unpublished earthquake catalog) (Engdahl, 2003)
Global Seismic Hazard Assessment Program

PLATE TECTONICS AND FAULT MODEL
PB2002 (Bird, 2003)
Finite Fault Model, Chen Ji, UC Santa Barbara (2007)

BASE MAP
NIMA and ESRI, Digital Chart of the World
USGS, EROS Data Center
NOAA GEBCO and GLOBE Elevation Models

REFERENCES

Bird, P., 2003, An updated digital model of plate boundaries: *Geochim. Geophys. Geosyst.*, v. 4, no. 3, pp. 1027-80.

Engdahl, E.R. and Villaseñor, A., 2002, *Global Seismicity: 1900 - 1999*, chap. 41 of Lee, W.H.K., and others, eds., *International Earthquake and Engineering Seismology*, Part A: New York, N.Y., Elsevier Academic Press, 932 p.

Engdahl, E.R., Van der Hilst, R.D., and Buland, R.P., 1998, *Global teleseismic earthquake relocation with improved travel times and procedures for depth determination*: *Bull. Seism. Soc. Amer.*, v. 88, p. 722-743.

The GEBCO_08 Grid, version 20090202, <http://www.gebco.net>