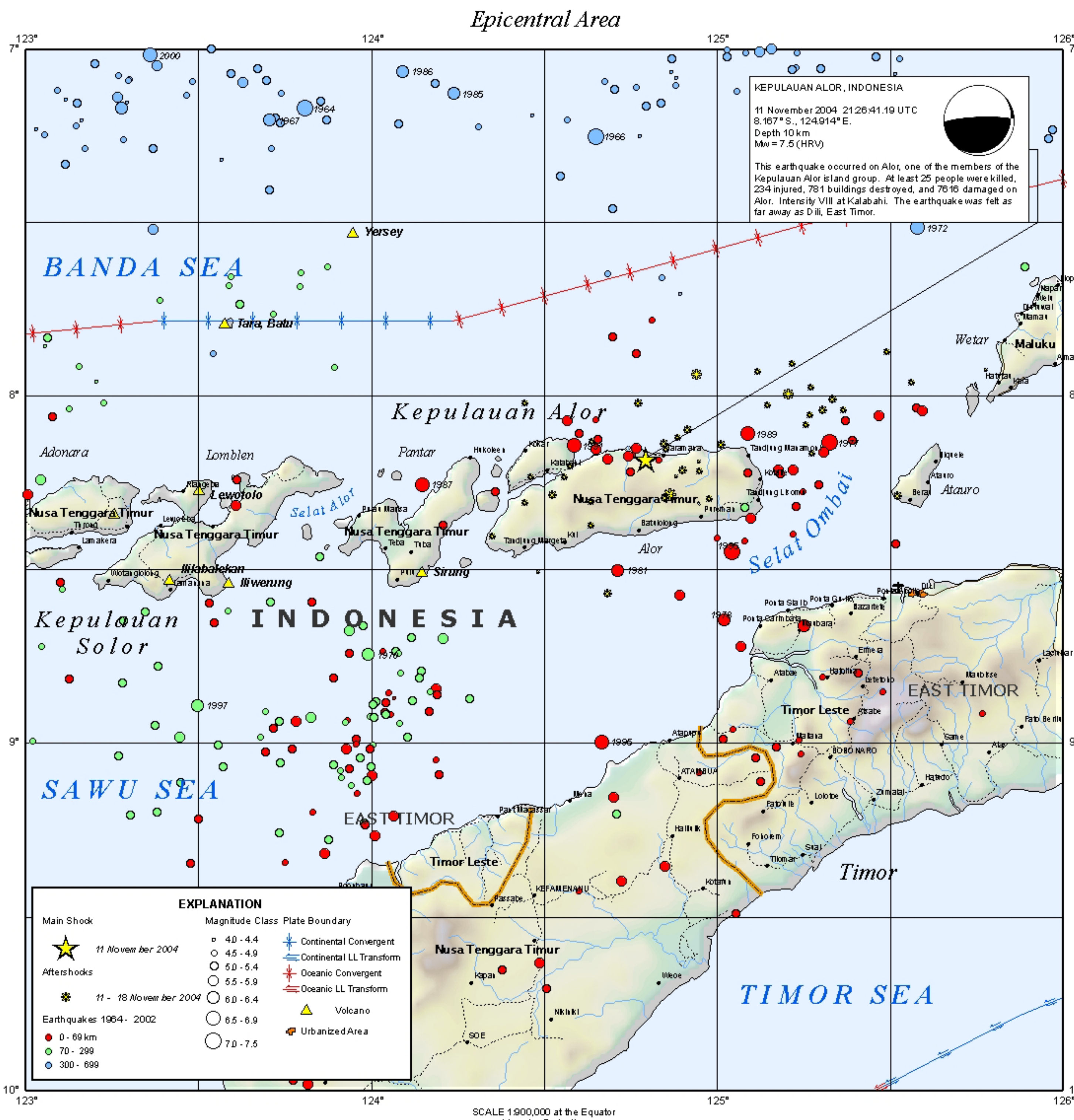


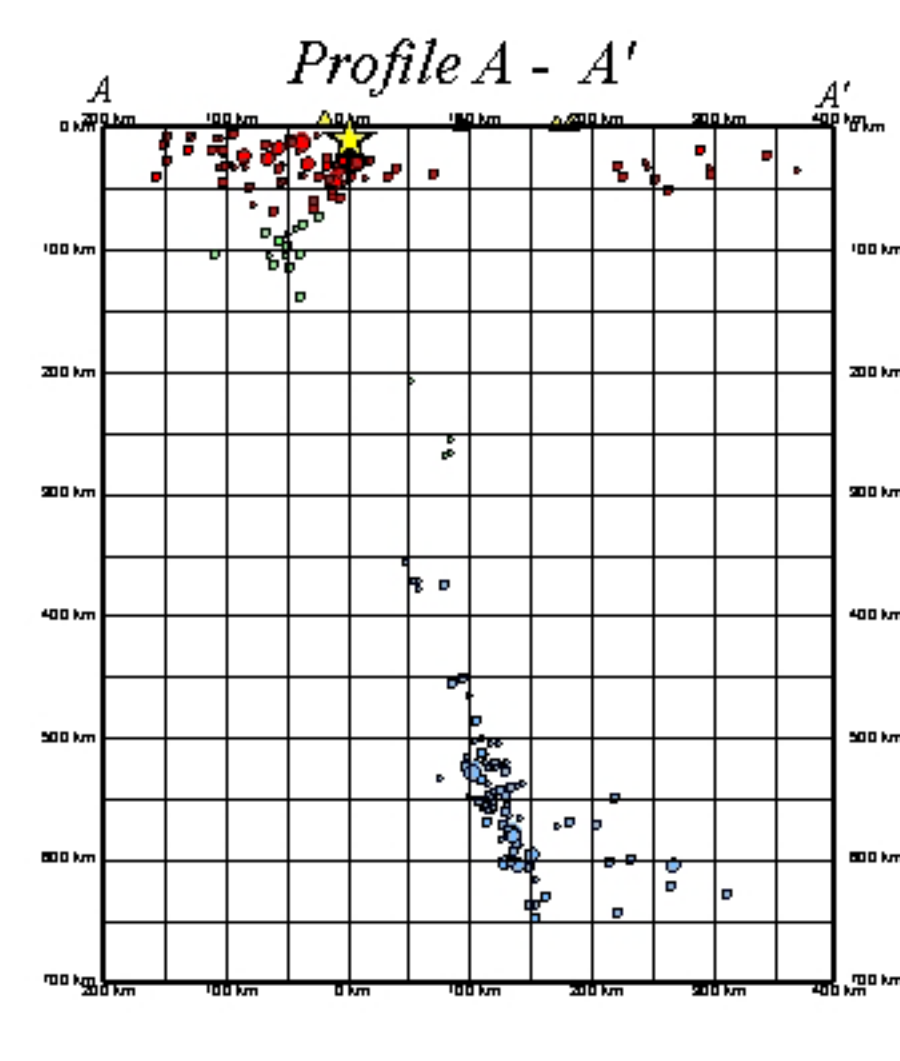
# M7.5 Alor, Indonesia Earthquake of 11 November 2004



**RELATIVE PLATE MOTIONS**

The relative motion of adjacent tectonic plates is depicted on the map by short vectors located at selected points on the plate boundary. In this presentation, one plate (the reference plate) is assumed to be fixed. The vector therefore represents the direction of the moving plate relative to the reference plate. The rate of relative motion is indicated next to the vector.

The components of the vector perpendicular and parallel to the plate margin approximate convergent/divergent and transverse direction of motion between the plates, respectively. As viewed from the fixed plate, an inward directed component suggests convergence at and near the plate boundary that may be expressed as crustal folding, uplift, thrust faulting, or plate subduction. Similarly, an outward directed component suggests plate divergence such as would be expected at a zone of crustal spreading. Transcurrent or transform faulting would be expected when the predominant vector component is parallel to the plate margin.



**LARGEST EARTHQUAKES (1964 - 2002) EPICENTRAL AREA**

YR	MO	DAY	LAT	LONG	DEPTH	MAG
1964	10	18	-7.172	122.059	577.8	7.8
1966	6	22	-7.254	124.650	527.2	7.0
1967	11	9	-7.206	123.707	520.1	6.2
1970	6	28	-8.748	123.993	77.5	6.2
1972	4	4	-7.517	125.551	386.2	6.0
1977	8	27	-8.137	125.326	44.0	7.1
1979	3	27	-8.648	125.823	25.0	6.3
1981	1	18	-8.585	124.714	29.3	6.1
1982	10	7	-7.195	125.777	588.3	6.7
1985	10	25	-7.138	124.248	681.5	6.8
1986	5	27	-7.866	124.093	685.6	6.0
1987	11	26	-8.259	124.150	26.4	6.6
1989	7	14	-8.112	125.999	18.0	6.7
1991	7	4	-8.146	124.557	29.0	6.7
1995	5	14	-8.451	125.045	11.0	6.9
1995	5	14	-8.664	125.253	24.0	6.3
1995	12	5	-8.999	124.660	22.0	6.4
1997	1	17	-8.284	123.499	105.0	6.2
2000	8	7	-7.012	123.563	649.0	6.5

**EXPLANATION**

Main Shock  
★ 11 Novem ber 2004

Depth Classes  
● 0 - 69 km  
● 70 - 299  
● 300 - 700

Plate Boundary  
— Continental Convergent  
— Continental Rift  
— Continental LL Transform  
— Oceanic Convergent  
— Oceanic LL Transform

▲ Volcano

Seismic Hazard  
■ 0.0 - 0.2 m/sec²  
■ 0.2 - 0.4  
■ 0.4 - 0.8  
■ 0.8 - 1.6  
■ 1.6 - 3.2  
■ > 3.2 m/sec²

