

Résumé du séminaire du lundi 16 janvier 2006 :

Interplate and intraplate earthquakes in India and Indonesia.

par

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Neotectonic and geodetic data suggest that in compressional plate settings the location and size of intraplate earthquakes is controlled by lithospheric buckling. The case is argued for India, where major earthquakes of the last 100 years are located along 5 lineaments transverse to the azimuth of plate convergence; other workers suggest that there is a single flexure. Similar large-scale buckling has been identified parallel to the Chile-Peru trench. The Sumatra earthquakes of 2004 and 2005 are widely ascribed to the release of energy stored elastically at the Sunda trench; some of the numerous aftershocks are better explained by slip on the imbricate sediments beneath the forearc. Recognition of such secondary effects may help effective management of the seismic hazard.