



Stress reconstruction before and after 2010 Chile Earthquake

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A catastrophic earthquake with magnitude $M_w = 8.8$ occurred off the coast of central Chile on 27 February 2010. Stress reconstruction of the earth's crust and upper mantle before and after this earthquake was performed on the basis of the cataclastic analysis method (MCA) and data on stress relief for Chile Earthquake. Researches allowed getting new data about features of tectonic stresses field before and after this earthquake. On the one hand, there are some extensive areas of stable behavior of stress tensor parameters, on the other hand - there are local areas where these parameters change anomaly fast. The main type of the stress state is horizontal compression. The type of stress tensor is a horizontal shift. The preparation area of the Chile earthquake is characterized by medium values of effective pressure.

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