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New geomorphological index created for studying the active tectonics of mountains

12.09.2008

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To build a hospital, nuclear power station or a large dam you need to know the possible earthquake risks of the terrain. Now, researchers from the Universities of Granada and Jaen, alongside scientists from the University of California (Santa Barbara, USA), have developed, based on relief data from the southern edge of the Sierra Nevada, a geomorphological index that analyses land form in relation to active tectonics, applicable to any mountain chain on the planet.

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Active tectonics comprise the most up-to-date deformation processes that affect the Earth's crust, resulting in earthquakes or recent deformations in the planet's faults and folds. This phenomena is analysed in geology research carried out before commencing engineering works.

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"The main use of this new index is that it establishes a close relationship between this, the land forms, and direct evidence of active faults", El Hamdouni explained.

According to José Chacón Montero, Director of the Departament of Civil Engineering at the

A seismic map for southern Spain

The indices are calculated with the help of Geographical Information Systems and teledetection programs in large areas which identify geomorphological anomalies possibly related to active tectonics. "This is really useful in southern Spain where studies on active tectonics are not very widely distributed", Chacón pointed out.

The study has focused on the Padul-Dúrcal fault and a series of associated fault structures on the edge of the Sierra Nevada, where over the last 30 years seismic activity has been recorded by the Observatory of the Andalusian Institute of Geophysics and Prevention of Seismic Disasters. Chacón explained that the map obtained with the new index depends exclusively on the land forms and divides the area studied into four parts, "of which two thirds of the total area is classified as

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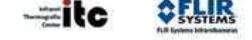
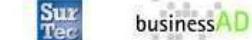
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having high or very high tectonic activity".

The Sierra Nevada is an Alpine mountain chain "with variable active tectonic gradients caused by the collision of Africa with Europe which has given rise to anticlines aligned from east to west, as well as the transverse extension with variable vertical gradients around 0.5 mm/year in normal faults", Chacón specified.

Antonio Marín Ruiz | Quelle: alphagalileo
Weitere Informationen: www.ugr.es/prensa/research/verNota/prensa.php?nota=544

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