

# THE GAS FISSURING ARE THE REAL AND THE MOST IMPORTANT TRIGGERING FACTOR FOR EARTHQUAKES

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The short-term and impending earthquake prediction has been considered as a worldwide puzzle for a long time. Geller R.J., Jackson D.D., Kagan Y.Y., Mulargia F. wrote: "The belief that earthquakes can be predicated is incorrect."

However,for the recent decade prof. Qiang ZuJi has done such predication successfully for a number of times in China by means of satellite thermal infrared images. We think the earthquake events are not single physical processes,they also include chemical ones. Our recent study shows the earthquakes are originated from a gas-expansion and gas-fissuring mechanism (especially hydrogen-damage and fissuring) of underground rocks in locked blocks under the loading of regional stress. The emitted gases came from the low velocity zones in crust and the asthenosphere in upper mantle. We have measured the gases in a lot of rock samples. Results demonstrated the Earth not only has a atmosphere,but also at least four inner gas-spheres,such as upper crust one, middle crust one,upper mantle one, and outer core one (Du Le tian,1993). The amount of gases increases with the depth of the Earth. These gases can emanated upwards under large gradients of pressure,temperature, density and viscosity.

Our conclusion: The earthquakes can be predicated. The Chinese wisdom can overcome them!