

## *Processes Of Continental Rifting*







### **Processes Of Continental Rifting**

Rifting is the process by which the continental lithosphere stretches. A Continental rift is the belt or zone of the continental lithosphere where the extensional deformation (rifting) is occurring. These zones have important consequences and geological features, and if the rifting is successful, lead to the formation of new ocean basins.

### **What is Continental Rifting? - The University of Sydney**

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MODELS OF RIFTING To understand the processes and causes of continental rifting it is necessary to examine the consequences of the modification of the lithosphere during rifting. Universal features of rift zones are crustal (lithospheric) extension with graben formation, and anomalous crust and upper mantle, usually interpreted as the result of lithospheric thinning or asthenospheric diapirism.

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Field, structural, petrologic and geochemical studies of the lithospheric peridotites provide important tools to unravel the processes that drove extension and rifting of the continental Europe ...

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Introduction to continental rifting. Wilson cycle concept. The basic idea in the Wilson cycle is that continental rifting tends to occur along old orogenic axes, so that these become the edges of rifted continental fragments flanking an oceanic basin that is opening. Eventually subduction starts in the ocean, the ocean basin closes,...

### **Continental Rifting. - University of Nebraska Omaha**

Continental rifting is a process of extension and thinning of the lithosphere accompanied by volcanism, hydrothermal activity, tectonic movement, sedimentation, and formation of petroleum and other deposits.

### **CONTINENTAL RIFTING, ACCOMPANYING PROCESSES**

Processes of Continental Rifting: Selected Papers from the Lunar and Planetary Institute Topical Conference on the Processes of Planetary Rifting, Held in St. Helena, California, U.S.A., December 3-5, 1981 - Ebook written by P. Morgan, B.H. Baker. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while ...

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In a general sense, these categories of rift mechanisms can account for observations at rifted margins, in the Basin and Range Province, and at metamorphic core complexes respectively. The mechanisms of continental lithosphere rifting (the effects) are here distinguished from the

processes which actually drive extension (the causes).

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