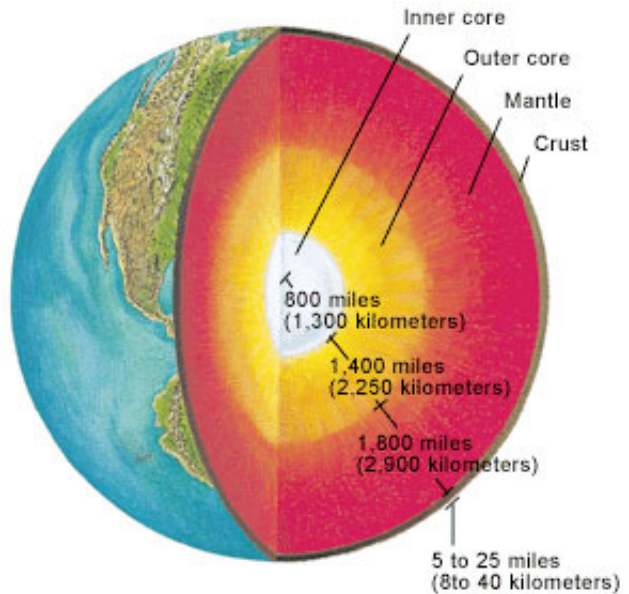
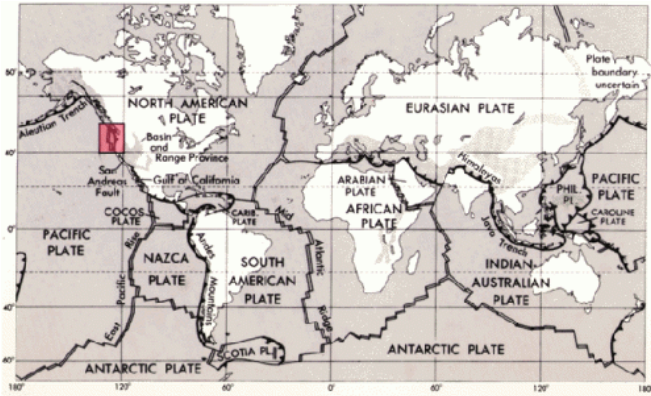


Questions of continental crust

27 November 2014, by Aaron L. Gronstal, Astrobio.net



The familiar continents of Earth are embedded in tectonic plates on the planet's surface that slowly collide with each other over time.

Geological processes shape the planet Earth and are in many ways essential to our planet's habitability for life. One important geological process is plate tectonics – the drifting, colliding and general movement of continental plates. This slow movement of mass has a role in causing all kinds of activity at the planet's surface, from earthquakes to the formation of mountains.

A new review published by the [Geological Society of London](http://www.geologicalsociety.org) examines questions about the continental crust of Earth, which is the primary repository for information about Earth's geological history (as well as many natural resources of value to humankind).

In the volume, scientists explore when and how [continental crust](#) formed and how it evolved through time. These are important questions for astrobiologists, and could provide clues about whether or not crustal formation is essential for the habitability of distant worlds.

Earth's solid crust is a relatively thin layer of the Earth that rests above the mantle, the outer core, and the inner core. Although thin, the crust contains a record of our planet's geological history and resources necessary for life. Credit: World Book illustration by Raymond Perlman and Steven Brayfield, Artisan-Chicago

This story is republished courtesy of NASA's Astrobiology Magazine. Explore the Earth and beyond at www.astrobio.net.

Source: Astrobio.net

APA citation: Questions of continental crust (2014, November 27) retrieved 9 December 2019 from <https://phys.org/news/2014-11-continental-crust.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.