

## The Continental Plates 盘古大陆，板块迁移

Whenever you look at a world map, doesn't it look like a big **jigsaw** puzzle? If you think the continents were once a single giant one, you are right. For the last 200 million years, they have slowly separated, creating the **globe's** surface as we know it today.

当你看着世界地图时，会不会觉得它很像一块大拼图？如果你认为世界各大洲曾是一整块巨大的陆地，那么你的想法是正确的。两亿年以来，陆地渐渐分裂，创造出我们今日所知的地球表面。

In 1912, **Alfred Wegener** **contended** that the great continent he called **Pangaea**, meaning "all land" in Greek, began to **split** apart 200 million years ago. He **coined** the phrase "**Continental Drift**" to describe his idea. Today, we have evidence supporting the theory. Identical fossils have been found in West Africa and eastern South America, and rock layers form a **continuous** line on these separate continents. There are also tropical plant fossils in **Antarctica**, leading experts to believe that this frozen continent was once located in tropical waters.

1912年，韦格纳主张这块他称为「盘古（Pangaea）」的大陆在两亿年前开始分裂，Pangaea在希腊文中意为「所有的陆地」。他创造出「大陆漂移」这个名词来描述他的概念。如今，我们有证据可支持这项理论：在西非和南美东部发现相同的化石，且在这两个分开大陆的岩层形成了一条连线；在南极洲也有热带植物的化石，让专家相信这块冰冻陆地曾经位于热带海洋中。

The **mechanism** that causes continental drift is now understood. According to the theory of **plate tectonics**, the continents are actually plates that float **atop** the earth's **mantle**, which is made of **molten** rock known as **lava**. The inner mantle is heated by the earth's **core** and it rises. As the mantle spreads, the plates are carried along with it. When they **collide**, one continent is forced up, creating mountains, while the other is forced down, returning to the inner earth. The areas where these plates meet have a high frequency of earthquakes. So next time you feel like you're on solid ground, remember that you're really floating on a continent!

造成大陆漂移的机制现已为人所知。根据板块运动理论，陆地其实是漂浮在地幔上的板块，而地幔的成份是熔化的岩石，即岩浆。地幔内部被地核加热开始上升。地幔扩张，大陆板块也随之移动。当板块碰撞时，其中一个板块受力上升形成山脉，另一个则受力下降回到地球内部，板块交界带发生地震的频率很高。所以，下次你觉得自己像踩在坚固的地面上时，别忘了你其实是在陆地上漂浮着！

—by Howard Weston

### Vocabulary

**contend** [kənˈtend] v. 坚决主张，声称

**core** [kɔːr] n. 核心

**collide** [kəˈlaɪd] v. 碰撞；相撞

### More Information

**jigsaw** [ˈdʒɪɡ,sɔ] n. 拼图玩具

**globe** [glɒb] n. 地球

**Pangaea** [ˈpændʒiə] n. 盘古大陆

**split** [splɪt] v. 分裂

**coin** [kɔɪn] v. 创造, 杜撰 (新字等)

**continuous** [kənˈtɪnjuəs] adj. 连续的

**Antarctica** [ænˈtɑːktɪkə] n. 南极洲

**mechanism** [ˈmekəˌnɪzəm] n. 机制

**tectonics** [tekˈtɒnɪks] n. 构造学, 构造地质学, 大地构造学

**atop** [əˈtɒp] prep. 在...上面

**mantle** [ˈmæntl] n. 【地】地幔

**lava** [ˈlævə] n. 【地】熔岩

**molten** [ˈmɒltən] adj. 熔化的