

# Richard Dixon Oldham Encyclopedia Article

## Richard Dixon Oldham

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# Contents

|  |                   |
|--|-------------------|
| <a href="#">Richard Dixon Oldham Encyclopedia Article.....</a> | <a href="#">1</a> |
| <a href="#">Contents.....</a>                                  | <a href="#">2</a> |
| <a href="#">Richard Dixon Oldham.....</a>                      | <a href="#">3</a> |

# Richard Dixon Oldham

**1858-1936**

Irish geologist and seismologist who established the existence of Earth's core. Based on his landmark survey of the 1897 Assam earthquake, Oldham identified three types of seismic waves—primary (P-waves), secondary (S-waves), and surface waves—predicted earlier by Siméon Poisson. Oldham noted that during an earthquake, seismographs located on the opposite side of Earth detect P-waves later than expected, leading him to conclude that Earth has a core less dense and rigid than its mantle.