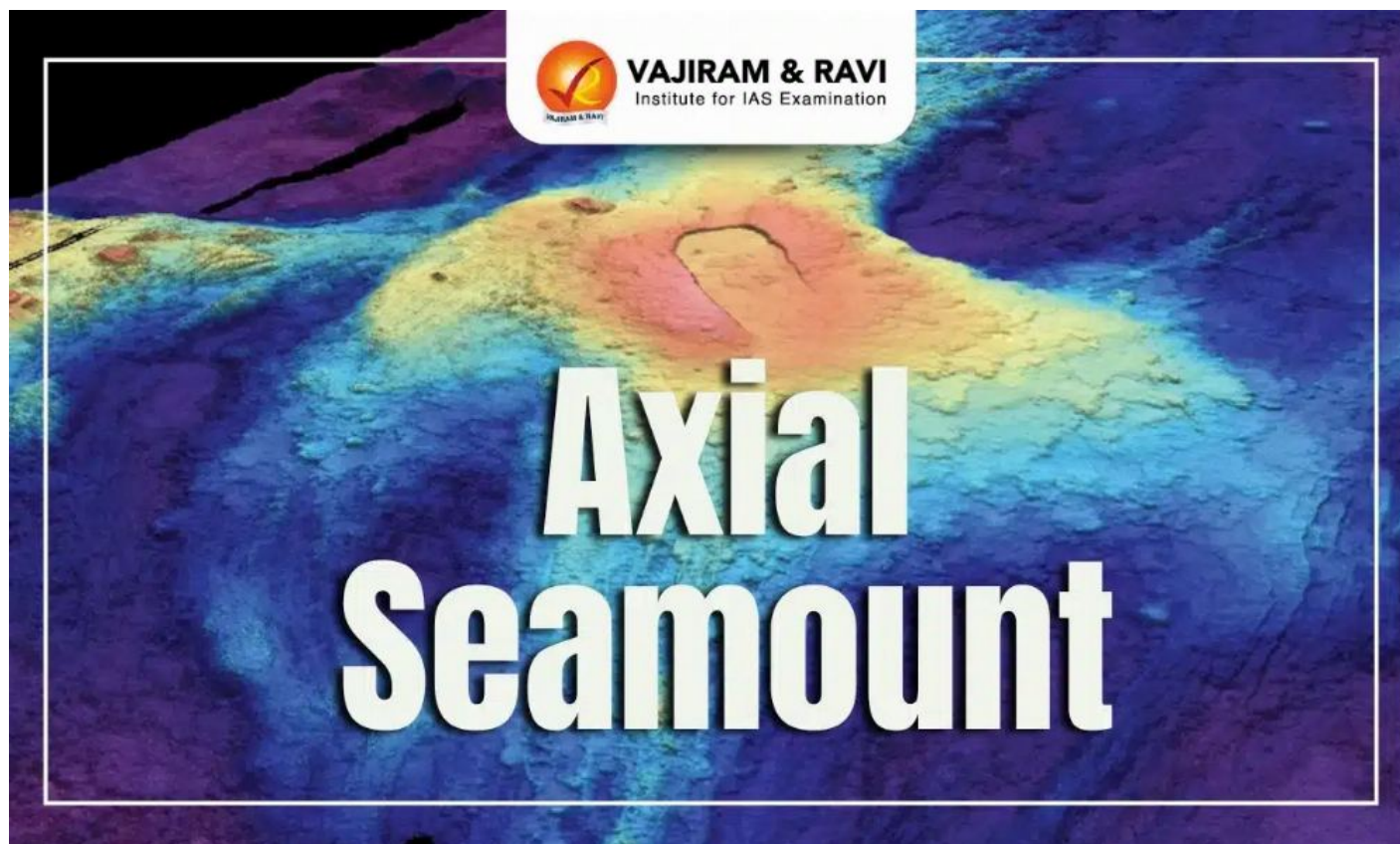


Axial Seamount

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Axial Seamount Latest News

The Axial Seamount underwater volcano near the Oregon coast could erupt soon, scientists have warned, following the detection of more earthquakes in the region.

About Axial Seamount

- It is an **underwater volcano** located about **300 miles off the coast of Oregon, United States**, in the **Pacific Ocean**.
- It is a **shield volcano** with a **summit marked by a large caldera**.
- It rises to a depth of 1400 m below sea level.
- It is **formed by a hot spot**, an area in the Earth's mantle where hot plumes of molten material rise into the crust.
- It is located **on the Juan de Fuca Ridge**, the **boundary between the Pacific and Juan de Fuca tectonic plates**.

- The volcano is **home to hydrothermal vents**, underwater hot springs where seawater is heated by magma and ejected in mineral-rich plumes.
 - **These vents support diverse marine life**, including microbes that use volcanic gases for energy, forming the basis of an ecosystem that includes giant tubeworms, spider crabs, clams, fish and octopuses.
- It is the **most active submarine volcano in the northeast Pacific**, with **known eruptions in 1998, 2011, and 2015**.
- While Axial Seamount's **eruptions are not dangerous to people** on land, they offer valuable **opportunities for scientific observation**.
- It is **part of the Ocean Observatories Initiative (OOI)** and hosts the **world's first underwater volcanic observatory called New Millennium Observatory (NeMO)**.
 - NeMO provides real-time data originating from Axial through a variety of undersea cables to a shore station in Pacific City, Oregon.

Source: WION

Source: <https://vajiramandravi.com/current-affairs/axial-seamount/>

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