



About NeMO

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Daily updates from sea

NeMO Net

Realtime communication link to the seafloor

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NeMO studies the dynamic interactions between submarine volcanic activity and seafloor hotspots at an observatory, Axial seamount. A volcanic eruption occurred at Axial in January 1998, destroying some hydrothermal vent sites and creating new ones. Since then NeMO scientists have been assessing the impact of the eruption and documenting the on-going changes in Axial's summit caldera.



Visit online interactive dives to the seafloor:
Dive!

NeMO 2005:

The NeMO 2005 expedition went to Axial seamount May 10-13, aboard the R/V Wecoma. The primary objective of the 2005 cruise was to recover and redeploy several seafloor monitoring instruments. The Remote Access Sampler (RAS) and 2 Bottom Pressure Recorders (BPRs) were recovered via acoustic release, and one of the BPRs was redeployed. Four Conductivity, Temperature,

<http://www.pmel.noaa.gov/vents/nemo/>



Dive!



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Dive to an active submarine volcano!

This web site lets you dive with a remotely operated vehicle to the seafloor and back at Axial Seamount, an active submarine volcano. Dive! is an interactive experience using video and computer animation that allows you explore black smoker vents, unusual life forms, and newly erupted lava flows.



This site requires:

- 1) Microsoft Internet Explorer web browser (Mac or PC)
- 2) Macromedia Shockwave (free download)
- 3) Apple Quicktime (free download)

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Dive!



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**Choose the Dive!
format that is right
for your internet
connection speed:**



Dive on the Web!

Accesses files off the internet as needed while you dive:

Faster connection

(T1 & cable modems)

Slower connection

(DSL & ISDN)

(Sorry, this site is not designed for 56k modem users)

OR

Dive at Home!

Download a stand-alone version that will play on your computer off-line:

PC Versions

Large 250 MB

Small 35 MB

MAC OS X

Large (* Mb)

Small (* Mb)

(* = COMING SOON)

(Unzip the downloaded file, then double click on NemoDive.exe)



Dive!



Welcome. You are on a NOAA research vessel 300 miles off the Oregon coast, stationed above Axial Seamount, an active submarine volcano. The ship is making dives at Axial Seamount with the remotely operated vehicle ROPOS. You are sitting in the ROPOS control room and you will be directing the next dive. But first, you must choose between 3 different dive sites.



Dive!



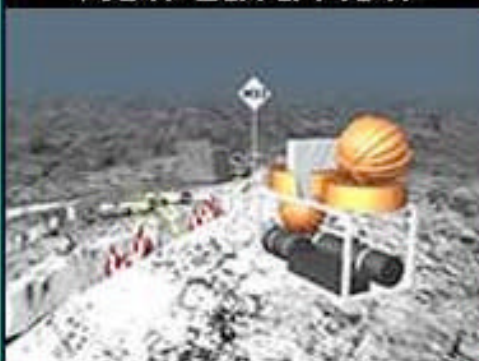
Choose a dive

Dive 1: Smoker Vents



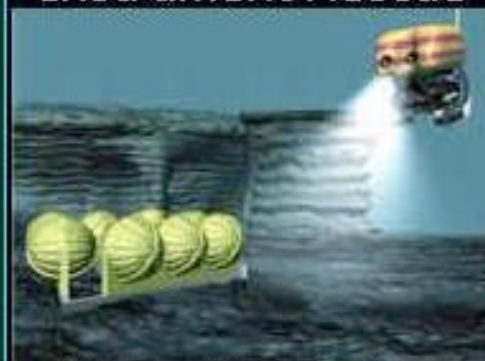
Explore seafloor hot springs called "black smokers" and the weird animals that live near them (3 sites to explore, 9 videos to see).

Dive 2: New Lava Flow



Visit a recent lava flow where warm water vents have been colonized by a newly discovered species (3 sites to explore, 9 videos).

Dive 3: Instrument Rescue



See a monitoring instrument that was caught in a lava flow, but miraculously survived and was rescued (1 site to explore, 5 videos).

**Repeat
Introduction**

Quit

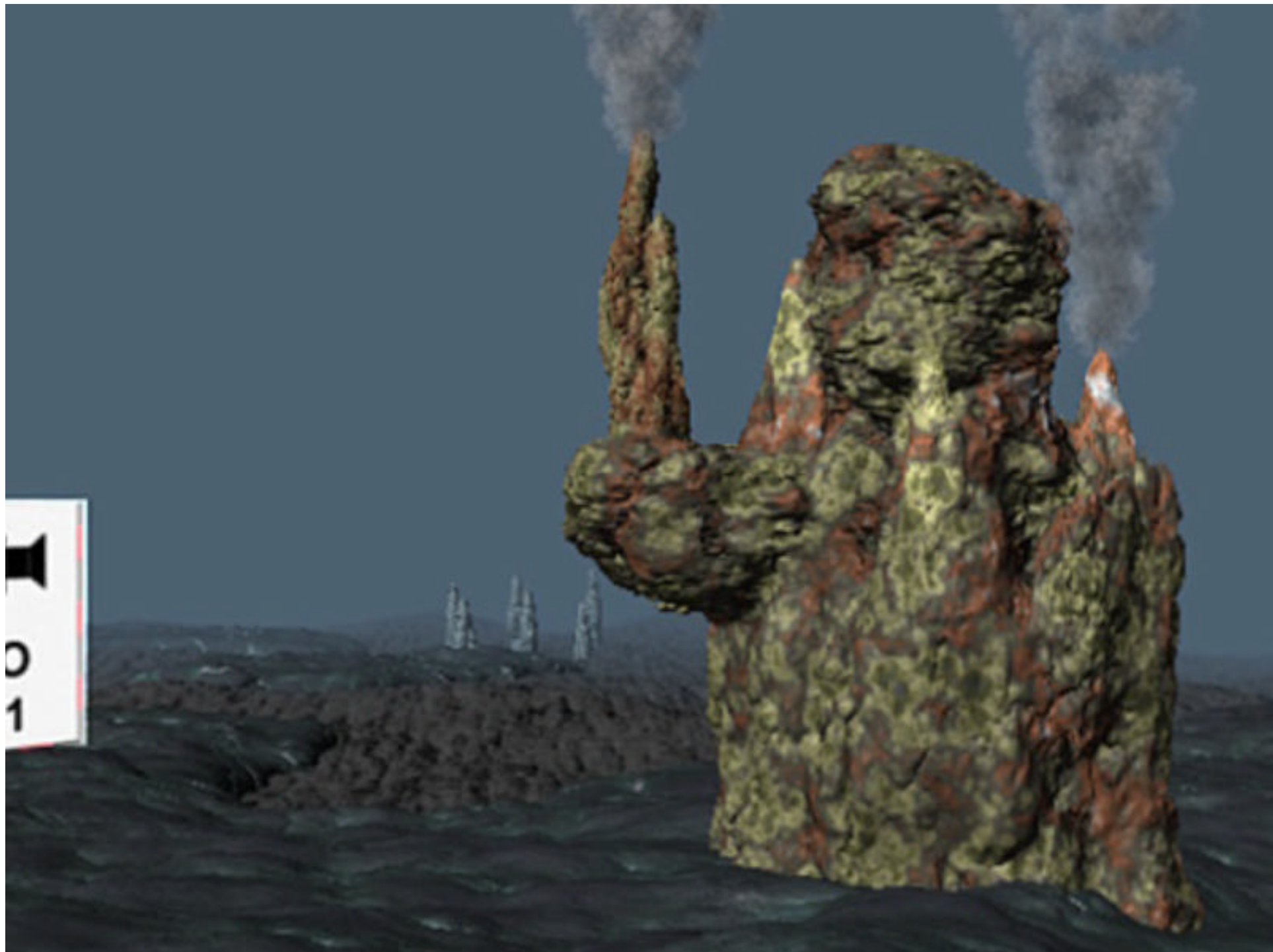


Dive!



OK. Here we go! The ROPOS underwater vehicle begins each dive inside a garage. The garage is lifted off the deck of the ship and lowered into the water on a long fiber optic cable. It usually takes ROPOS about 2 hours to descend to the top of Axial Seamount, which is almost a mile below the surface, but we'll speed it up a bit here.

QuickTime™ and a
Sorenson Video 3 decompressor
are needed to see this picture.



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