

EARTHQUAKES
OCCUR ALONG
CRACKS IN EARTH'S
CRUST CALLED


FAULTS



EARTH'S OUTER LAYER



THE CRUST



THE HOT LAYER
JUST
UNDER THE
CRUST THAT
MOVES SLOWLY.




MANTLE

THE WAVES THAT TRAVEL THROUGH THE EARTH AFTER AN EARTHQUAKE




SEISMIC WAVES




**ALSO CALLED
“P” WAVES
FASTEST WAVES
FIRST TO
ARRIVE AT
DISTANT POINTS**

PRIMARY WAVES



**“S” WAVES TRAVEL
SLOWER THAN
PRIMARY WAVES,
ARRIVE LATER,
ONLY TRAVEL
THROUGH SOLIDS**




SECONDARY WAVES

**A DEVICE USED
BY SCIENTISTS
TO
DETECT AND
MEASURE
EARTHQUAKE
STRENGTH.**



SEISMOGRAPH



**THE PRINTED
RECORD OF AN
EARTHQUAKE'S
STRENGTH
PRODUCED BY A
SEISMOGRAPH**



SEISMOGRAM



**SPHERE OF SOLID
MATERIAL AT
EARTH'S CENTER.**



INNER CORE

**LIQUID LAYER
BELOW THE
MANTLE,
PROBABLY
MELTED IRON**



OUTER CORE



WHAT
IS IT?



Hint: It measures earthquake

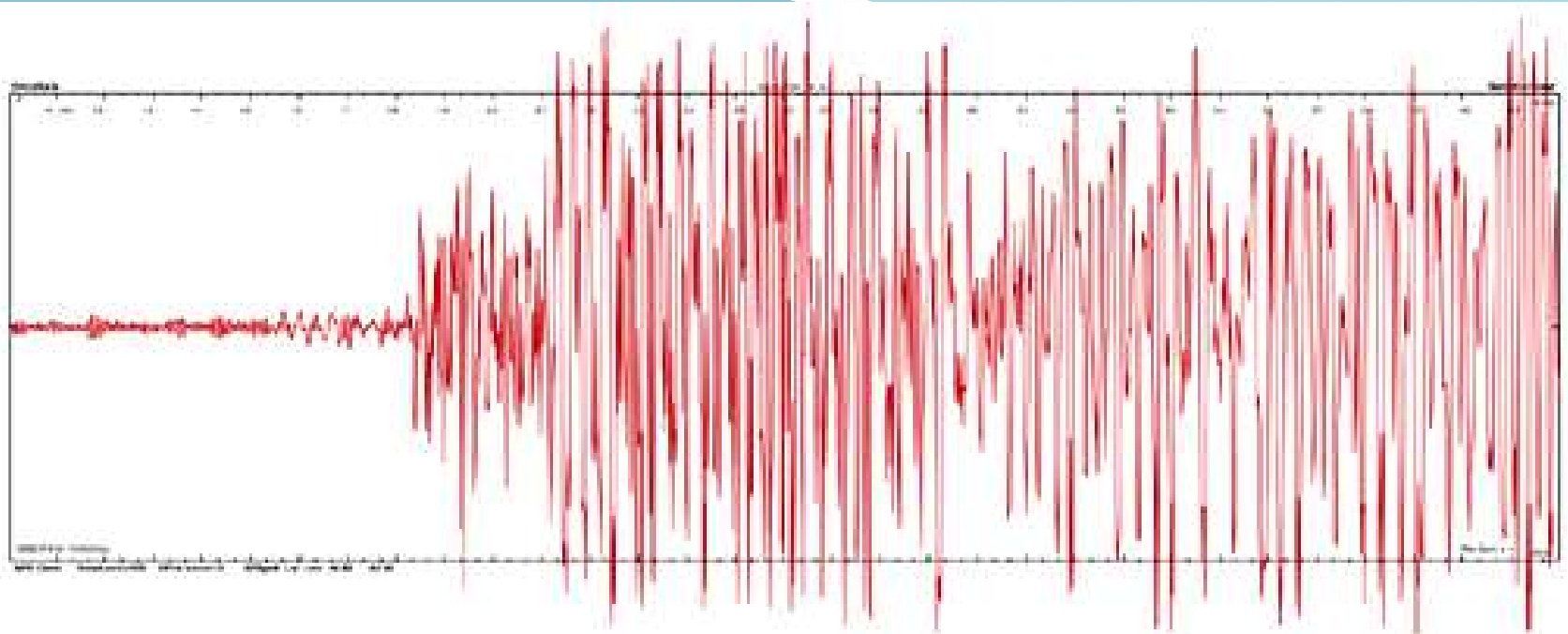
It's a **SEISMOGRAPH**



Hint: It's the solid center of the Earth.

pppst.com

It's the **INNER CORE!**



OFF THE WEST COAST OF NORTHERN SUMATRA

December 26, 2004

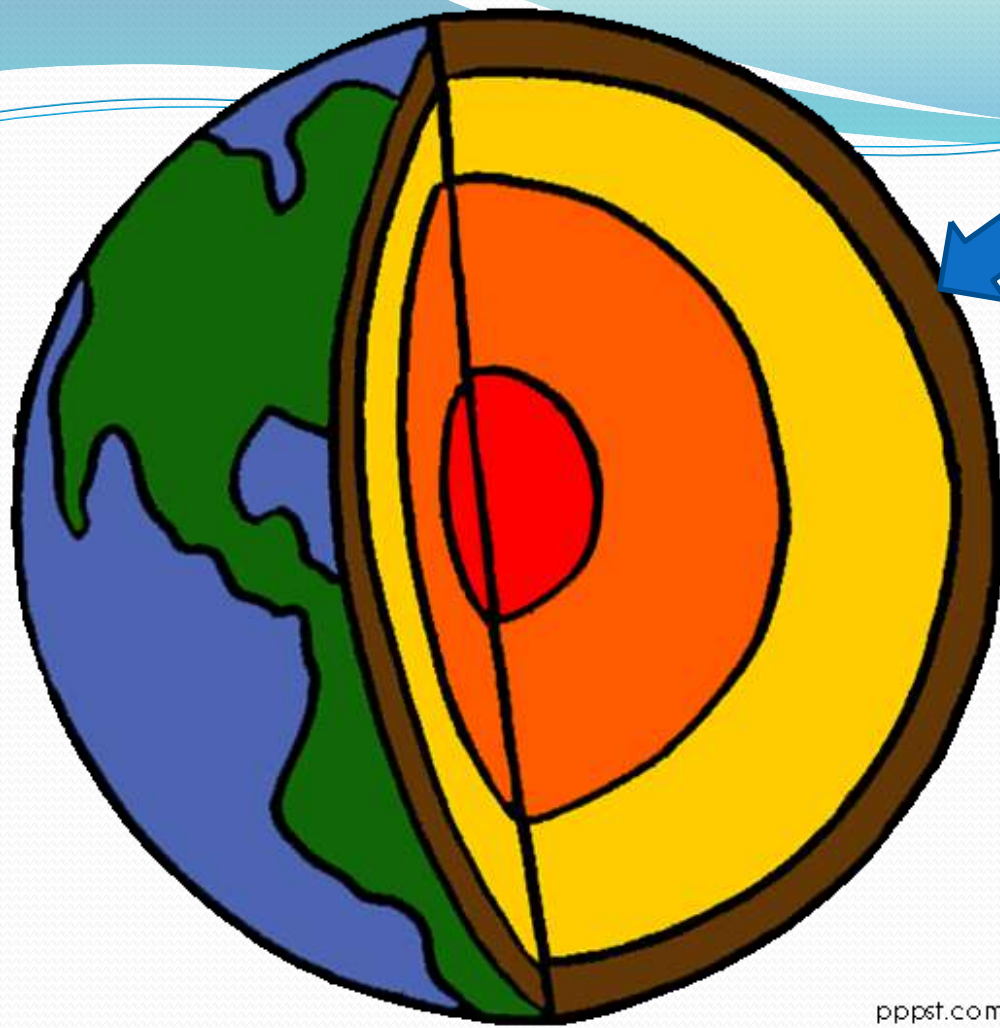
Magnitude — 9.0 • Depth — 10 kilometers • Origin time — 00:58:50 UTC

Recorded at the Ohio Geological Survey OhioSeis Station — OGSO

Fountain Square, Columbus

Hint: It is printed out by a SEISMOGRAPH.

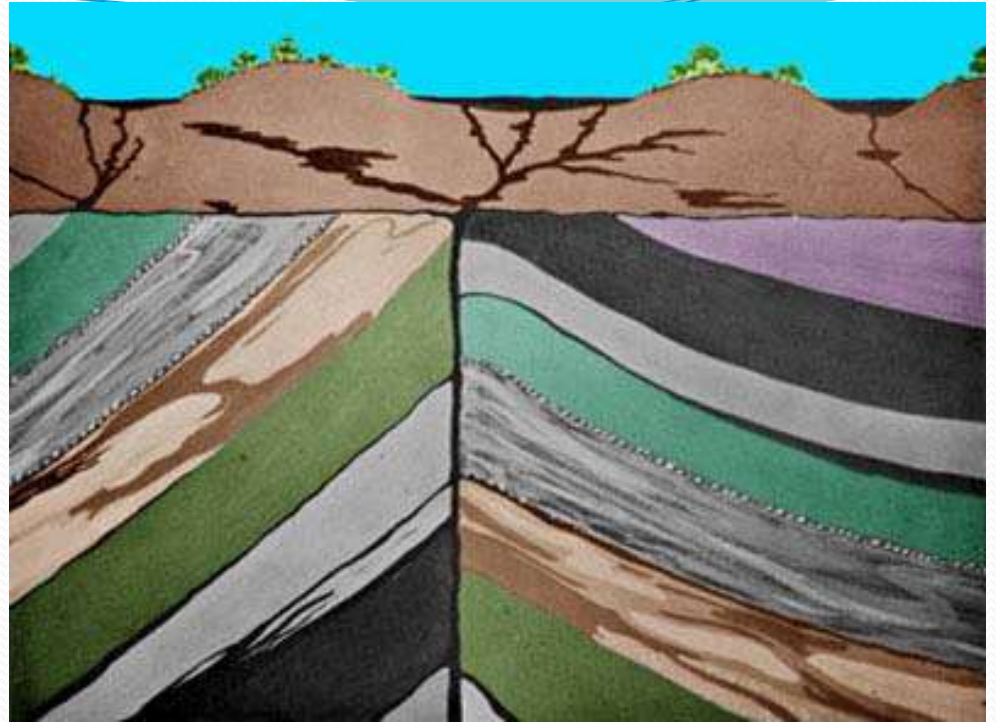
It's a SEISMOGRAM!



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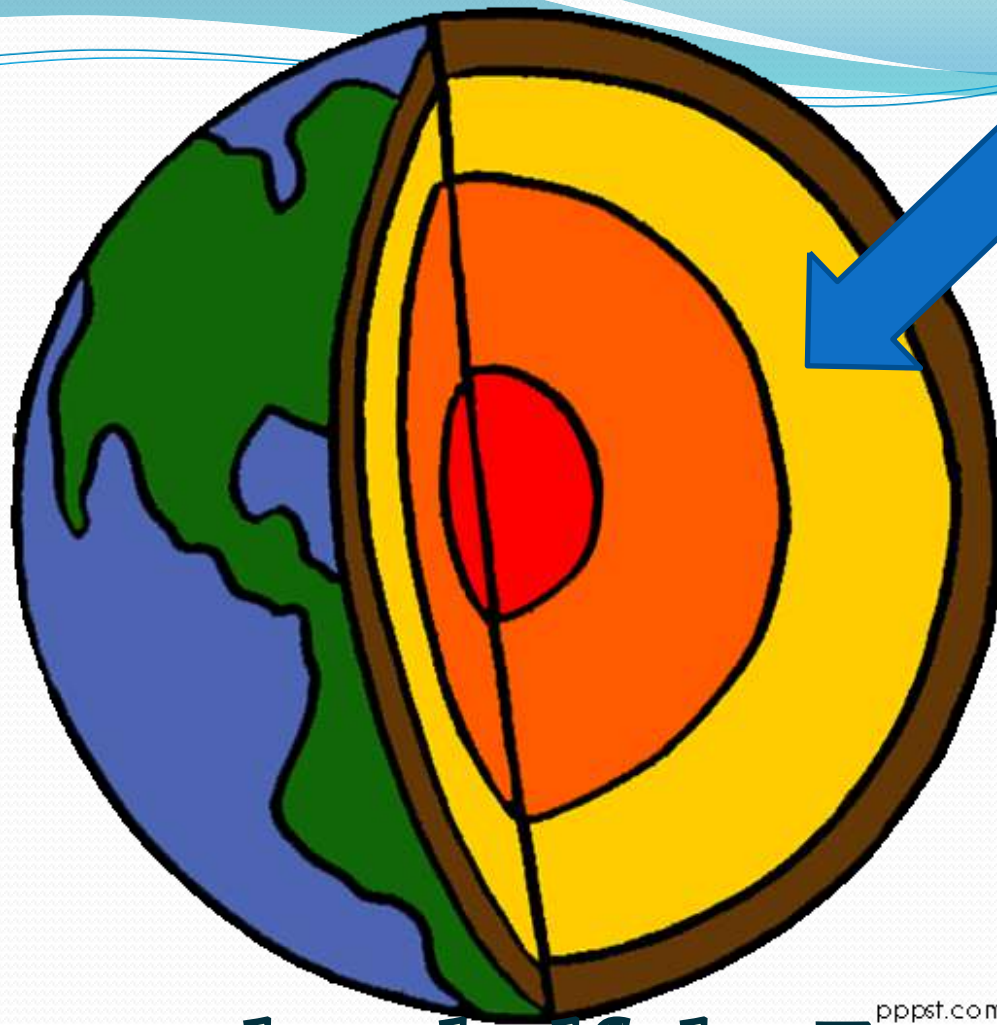
Hint: It's the outermost and coolest layer of the Earth.

It's the CRUST!



Hint: It's a crack in the crust where two plates collide.

It's a **FAULT!**

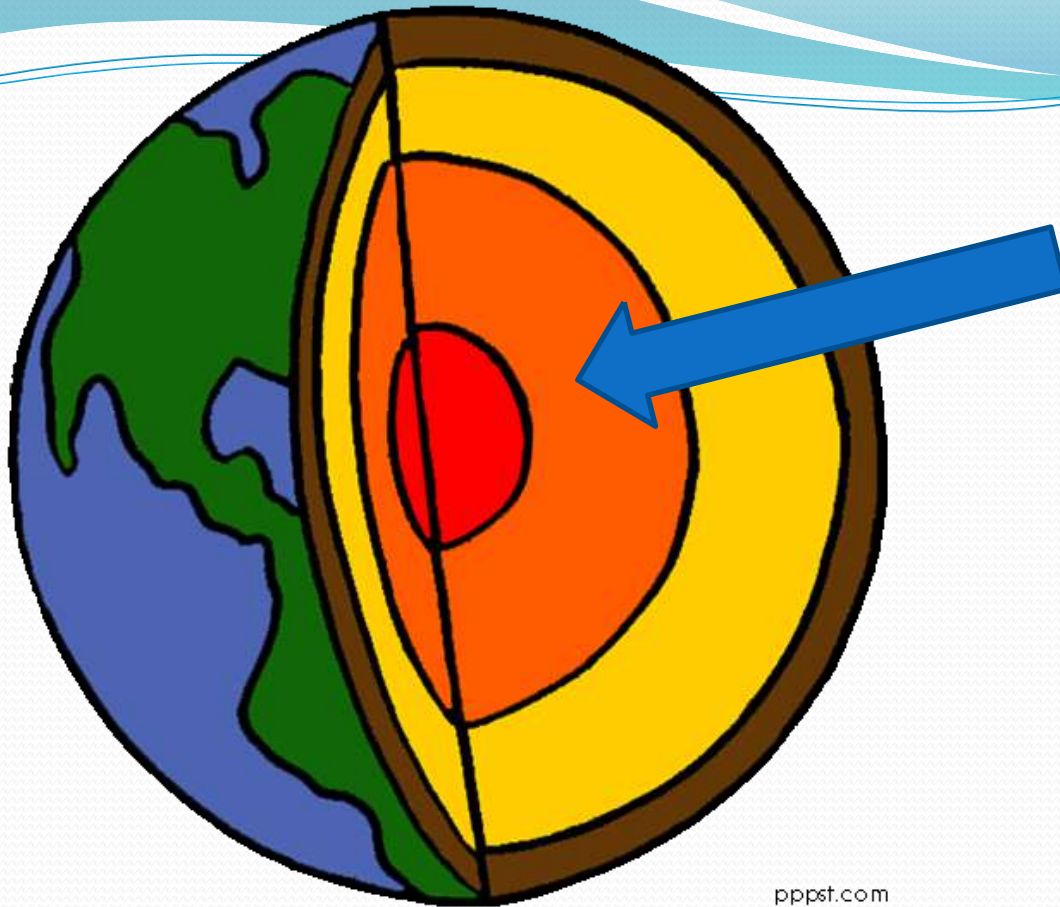


Hint: It's more than half the Earth's mass.

It's the MANTLE!



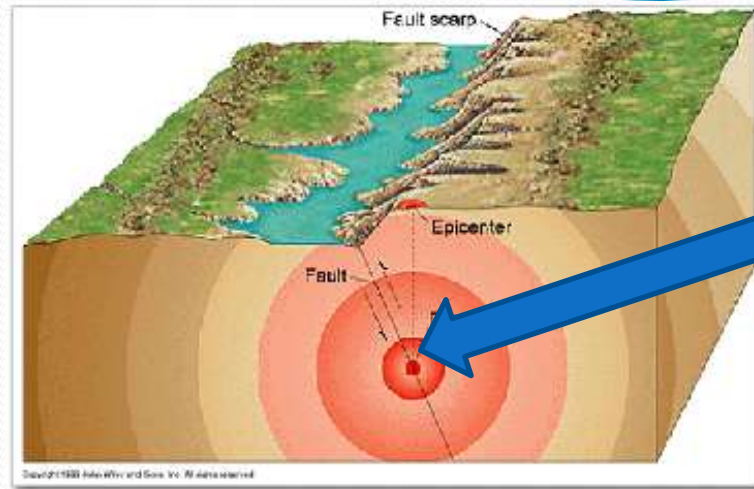
Hint: It's a movement of the Earth's crust.
It's an **EARTHQUAKE!**



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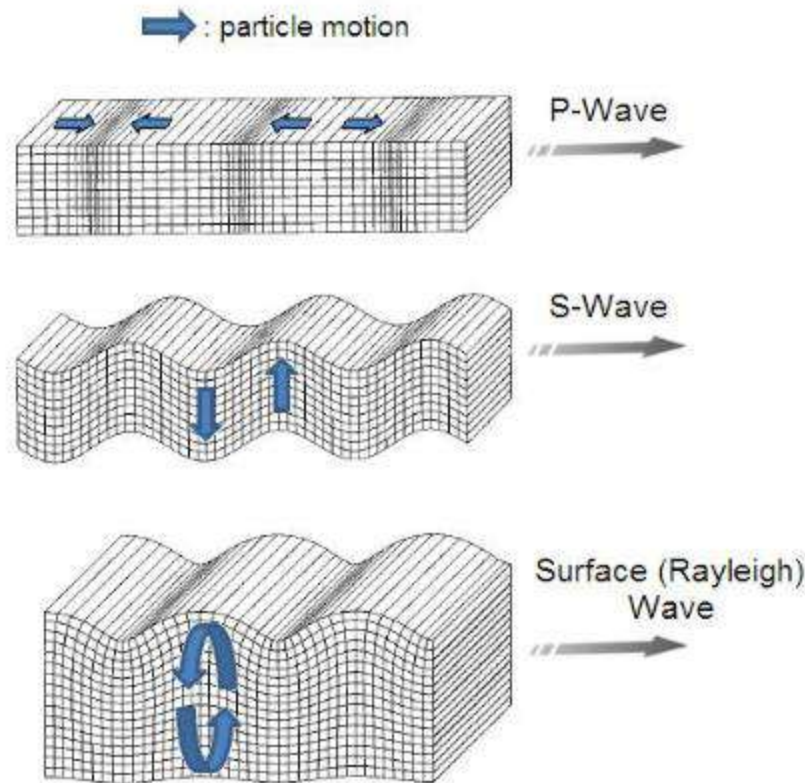
**Hint: It's the liquid iron layer that creates
Earth's magnetic field.**

It's the OUTER CORE!



Hint: All the energy from the earthquake starts here.

It's the FOCUS!



Hint: These move away from the focus in all directions

They're SEISMIC WAVES!