

# The Earth



- A large terrestrial planet with a large satellite (moon)
- To learn more about the Earth take Introduction to Geology




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A **solid inner core** and a **liquid outer core**.

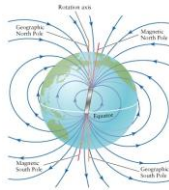
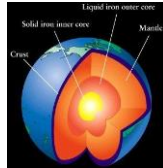
**Nickel and Iron**

**Magnetic field.**

What is needed to produce a magnetic field?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Aurorae (northern lights).**




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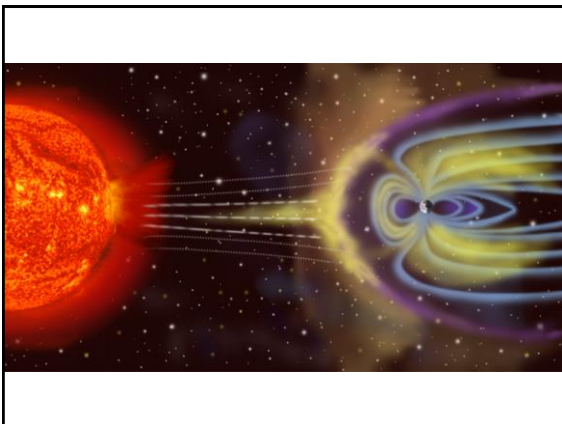
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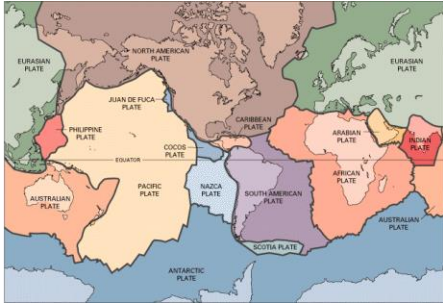
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### Plate Tectonics



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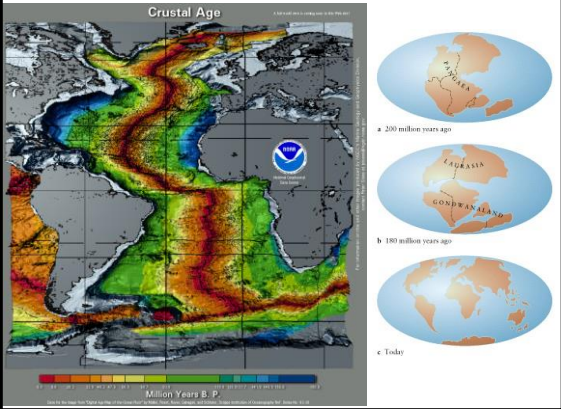
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### Crustal Age



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### Plates, Volcanoes, Earthquakes locations

Active Volcanoes, Plate Tectonics, and the "Ring of Fire"



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# Volcanoes

Different Types (main categories)

- Break in oceanic crust - Hawaii, Iceland
- very fluid lava - wider base
- less dangerous eruptions.

- Found near subduction regions - Andes, Cascades
- high viscosity lava - steeper slopes
- dangerous eruptions

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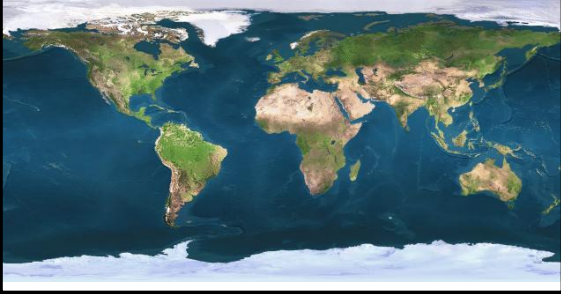
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What else is there on the Earth?



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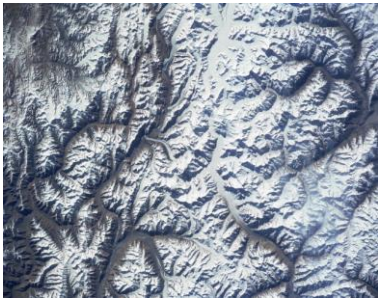
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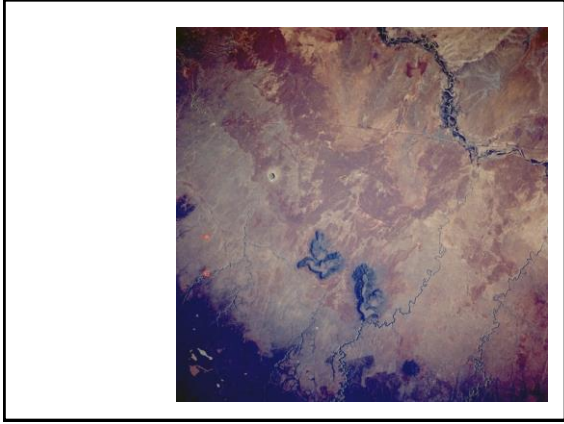
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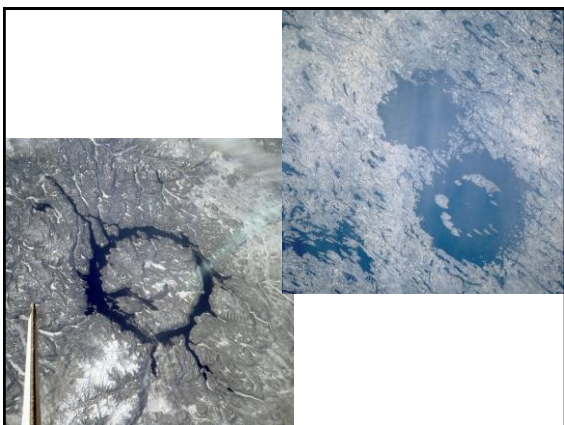
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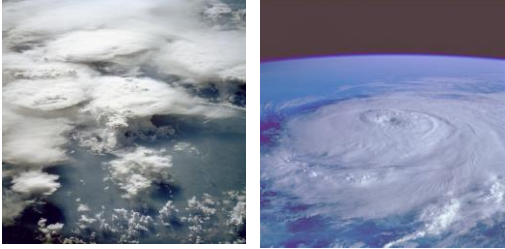
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# Weather - Atmosphere

For greater detail, take **Elements of Weather**




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# Composition

- 78 % \_\_\_\_\_
- 21 % \_\_\_\_\_
- 0.1 - 3 % \_\_\_\_\_
- 0.03 % \_\_\_\_\_

Original atmosphere of the Earth?  
 No, a **secondary** atmosphere.  
 Where did our modern atmosphere come from?

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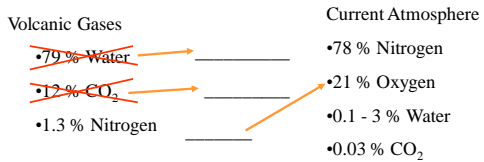
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How can volcanoes produce the current atmosphere?  
 With help.....  
 Water vapor becomes \_\_\_\_\_  
 CO<sub>2</sub> trapped in \_\_\_\_\_ ( \_\_\_\_\_ )!  
 \_\_\_\_\_ increases the oxygen content

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