

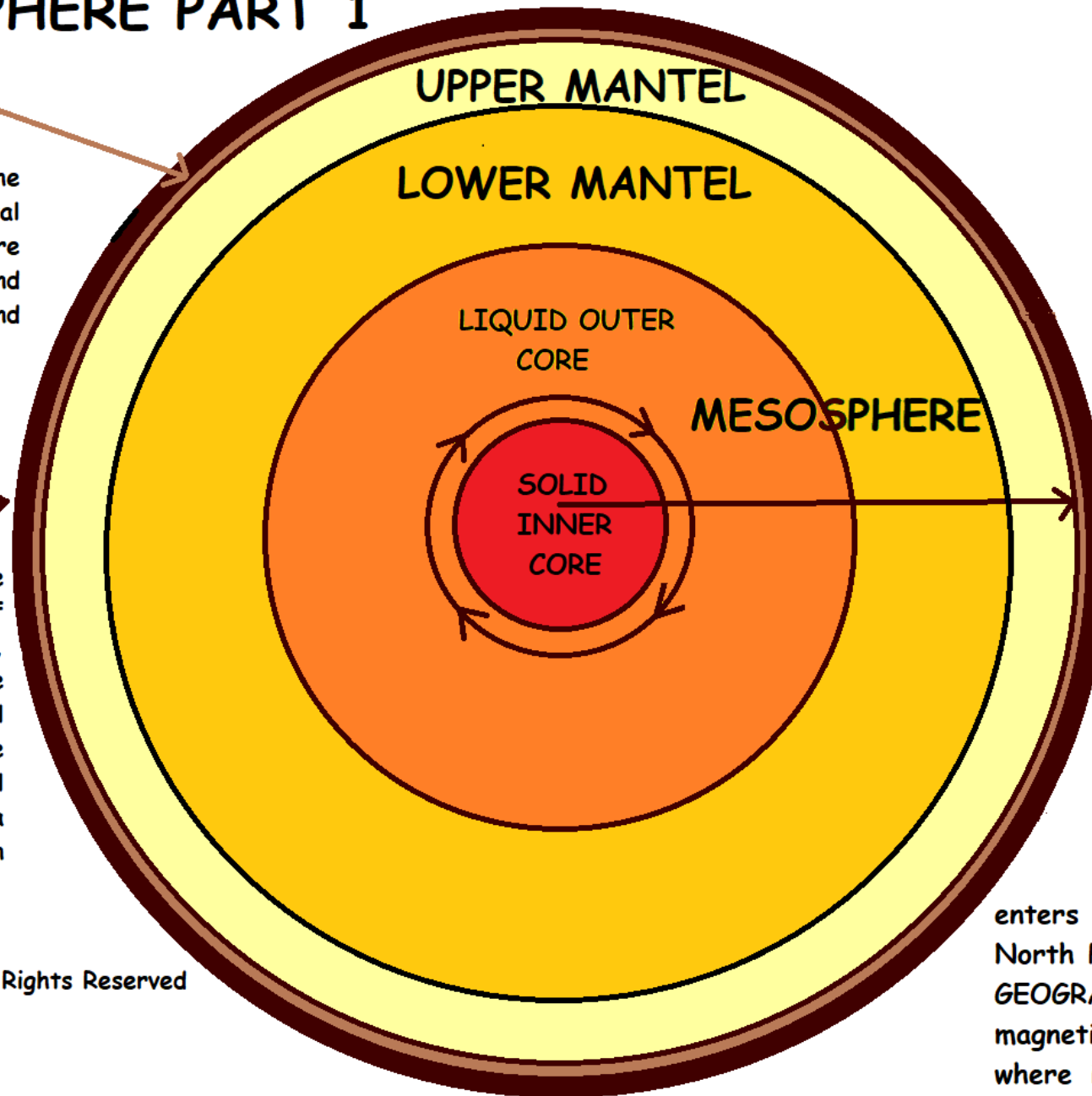
EARTH'S GEOSPHERE PART 1

ASTHENOSPHERE

The Earth's crust floats on the Asthenosphere, creating Continental Drifts. The Tectonic plates that are created from this drifting, collide and cause earthquakes, tsunamis, and volcanoes.

LITHOSPHERE

The Earth's crust is made up of the LITHOSPHERE, which consists of rocks: such as: igneous, sedimentary, and metamorphic. It also includes the PEDOSPHERE, which consists of soil and sand that is created by the breakdown of rocks and shells, as well as other organic matter created as a result of the life cycles of human beings, animals, and plants.



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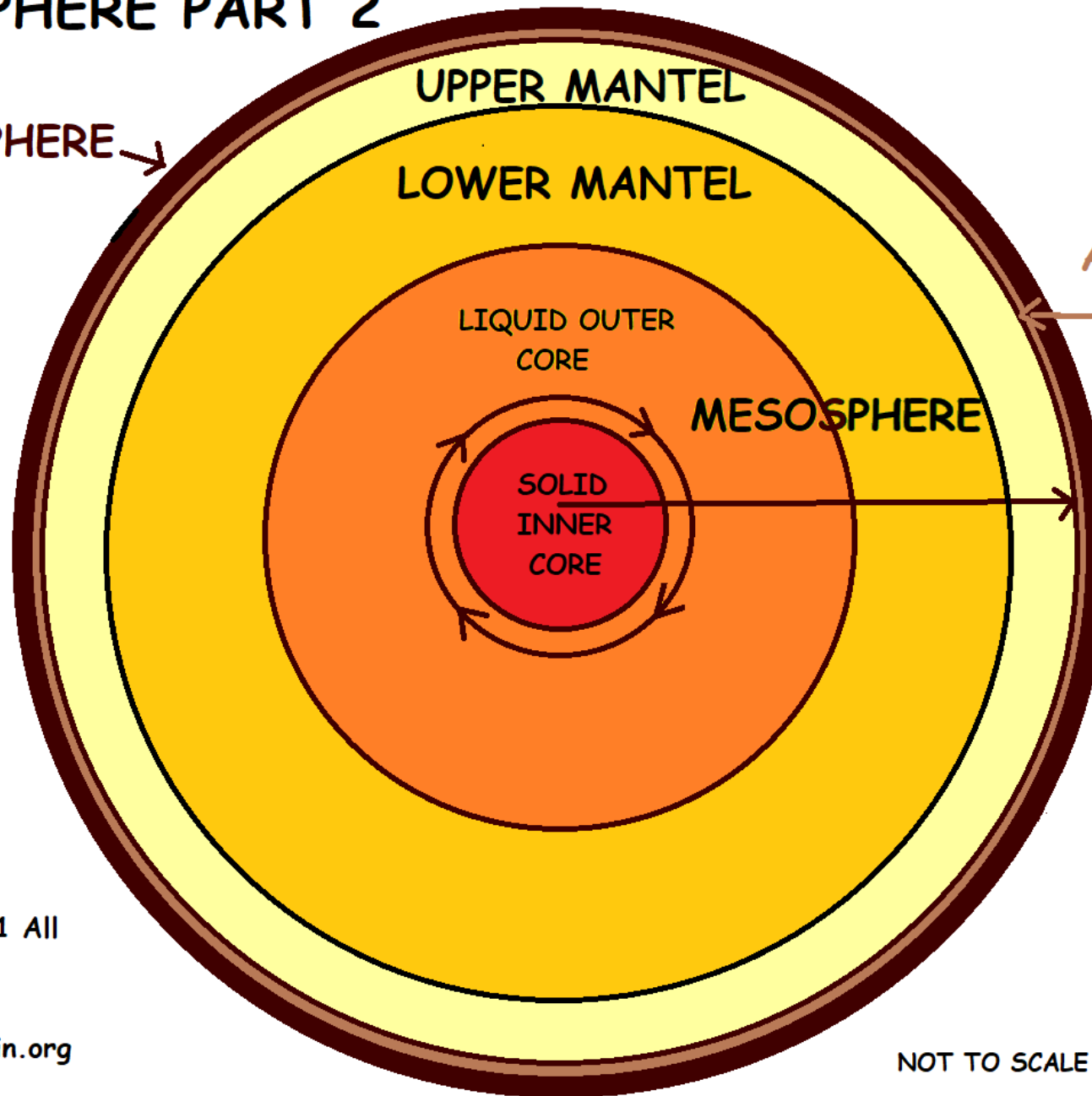
The earth's core is connected to the Earth's upper atmospheres. In the center of the Earth, the pressurized solid inner core (mainly composed of iron) is so hot that it is constantly transferring heat to the outer core and making it molten. The heat of the inner core is estimated to be about the same as the Sun's surface about 10,800 degrees Fahrenheit or 6,000 degrees Celsius. When this happens, the air from the liquid or molten iron outer core (which is slightly cooler - a difference of about 2,700 degrees Fahrenheit and 1500 degrees Celsius) moves down towards the solid inner core. This is called convection. Even though the iron is molten, it still conducts electricity. This constant exchange creates a magnetic field. That magnetic field is generated out of the Earth's core out into the upper Earth atmosphere and provides protection for the Earth. It enters by way of an area NEAR the GEOGRAPHIC North Pole and exits by way of an area NEAR the GEOGRAPHIC South Pole. The direction that the magnetic field flows HAS changed at various times where it was completely reversed and IT STILL CAN HAPPEN.

EARTH'S GEOSPHERE PART 2

LITHOSPHERE →

About 71% of the Earth's surface is covered in water. There is also water vapor in Earth's atmosphere. This makes up the HYDROSPHERE.

When the water freezes to form snow, ice, ice sheets, frozen glaciers, icebergs, and other frozen bodies of water, they form the CRYOSPHERE. The CRYOSPHERE is NOT worldwide, but its influence IS, thus it is named a sphere also.



ASTHENOSPHERE ←

All living things on land, in the waters, and in the air, make up the BIOSPHERE or ECOSPHERE. All living creatures are interconnected through the food chain.

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