



## POSSIBLE WARMING OF THE EARTH'S LOWER CRUST

In 2009 Roberto Guillermo Gomes, Master in Astronomy and Astrophysics (+42 university and tertiary degrees) published that there **are three magma chambers active under the Yellowstone Park supervolcano**. Two have already been recently confirmed by scientists. The lower third is missing at great depth and the most worrying.

Accurate predictions regarding global warming in 2002, with the exception of a few errors.

1.R.G. He was right when he predicted that the Antarctic ice sheets would thaw.

2. He warned that between 2025/2030, positive feedback dominoes of the interconnected global ecosystems would probably trigger, causing a hyper-acceleration of global warming and a phase change in the planetary thermoequilibrium, due to the increase in hydrate escapes of methane gas from the arctic bottom and from rapid thawing of permafrost.

3. He warned that the terrestrial ecosystem works with two parallel freezers interconnected in a dynamic way, the North and South Poles. When the floating ice of the North Pole thaws completely in the summers (approximately in 2030 when positive feedbacks are activated in a domino effect from 2025/27), a compensatory jump in global average temperature will occur, as the cooling capacity of one of the the two freezers of the dual system, increased by the reduction of the albedo effect. This higher temperature will warm the waters and accelerate the thawing of the Antarctic glaciers. So the ocean waters will rise very quickly.

4. As glaciers melt at the base at ground level, the potential for landslides into the oceans increases.

5. As the glacial massifs thaw, localized earthquakes will occur due to the abrupt rise of the soils, free of the greater pressure of the weight accumulated by the glaciers.

6. When the 1.5° C barrier is broken, the first phase activation of the “clathrate rifle” will begin on the eastern Siberian Arctic platform (ESAS), where pre-activation is already registered.

7. The intensity of hurricanes, typhoons and the frequency of earthquakes will increase.

8. Droughts will spread and intensify.

9. There will be problems for the regular provision of food and drinking water throughout the world.

10. If the "clathrate gun" were activated in an irreversible cascade, the average temperature could jump to 6° and 12° C at both poles, with which most of the living beings would succumb, huge continental areas would become uninhabitable under a climate extreme.

11. In 2004 NASA reported that the balance of the Earth's thermoequilibrium was broken, that is, the planet now retains more energy than it reflects back into space. Solar energy arrives in the form of short-wave radiation, almost 30% is reflected into space by the surface and the atmosphere, through the albedo effect. Reaching the surface on average about 240W/m<sup>2</sup>. The terrestrial radiative balance is established between the balanced flows between incoming and outgoing energy from the planet. Greenhouse gases opaque the atmosphere and have already broken this balance.

12. The temperature in the core of the Earth is around 5700° C. The metallic core of the Earth is made up of iron (Fe) and nickel (Ni). It has a solid inner core with a radius of 1,216 km (19.1% of Earth's radius) that is surrounded by a liquid cap (called the outer core) that is about 2,266 km thick. The core releases heat by radiation at a rate of about 47 TW (terawatts). Now, to the extent that the surface, the atmosphere and the oceans warm up due to global warming, does this affect the rate of radiation from the Earth's core? At the moment there is no reliable scientific data.

13. If there is radiation retention at great depths in the interior of the Earth, this can cause a phenomenon of magmatic "liquefaction", because the temperature can increase several degrees at the level of the lower earth's crust, thinning the tectonic plates and causing increased intensity of earthquakes and volcanic activity by effect, it can also warm fossil oceans that contain about the same amount or more of water than surface oceans. If the probable phenomenon were to increase, these fossil oceans would vaporize and, after crossing a phase change threshold, would abruptly reach the surface.

14. In 2002, RG requested by note to the President of the United States George W. Bush and his body of scientific advisers, to install temperature sensors in the world's oil wells, in order to record microvariations of temperature at great depth, in order to obtain data about what is happening under the surface of our planet... He was not heard.

In 2009 RG published that there are three active magma chambers under the supervolcano in Yellowstone Park. Two already gone recently confirmed by scientists. The lower third is missing at great depth and the most worrying. If the probable phenomenon of magmatic "liquefaction" is occurring, large-scale earthquakes are coming, which will affect specific sites such as the San Andreas fault, where the "Big One" is expected. This increased intensity can drive the magma accumulated in the lower third chamber of the Yellowstone supervolcano and cause it to erupt.

**For all these reasons, humanity by all means at its disposal must avoid breaking the threshold of 1.5° C.**



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