

Attention, Please, the Moon

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ABSTRACT

This article presents an alternative model of the Moon's internal structure and its relationship with the Earth's geophysical processes. Based on the analysis of gravitational measurements, planetary observations, and previously published theoretical studies, the paper argues that the Moon and the Earth share similar structural characteristics, with internal mass distribution influenced by external gravitational forces. The proposed model offers explanations for several geophysical phenomena, including magnetic field generation, ocean tides, tectonic activity, and the synchronous rotation of the Moon. The study further discusses the possible consequences of large-scale mechanical disturbances or artificial impacts on the lunar surface, suggesting that significant disruption of the Moon could affect Earth's climate, magnetic field, and major oceanic circulation systems. The article emphasizes the importance of exercising caution in future lunar exploration and highlights the need for a deeper understanding of planetary physics before undertaking activities that may alter celestial bodies.

Keywords: Moon, Planetary Physics, Lunar Structure, Gravitational Interaction, Earth–Moon System.

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Introduction

This article was prompted by a TV programme about the exploration of the Moon and plans for its use. To understand the potential consequences, we first need to describe the structure of the Moon, show with facts why it differs from the currently accepted view, and demonstrate the satellite's influence on the Earth and its significance.

Since the laws of physics are the same throughout the universe — at least, no others have been discovered so far — phenomena occurring on Earth and other planets can be used as an analogue for the Moon.

Analysis of gravity measurement data and natural phenomena observed on the Earth's surface proves that the planet's structure is not as is currently believed. The modern concept of the planet's structure has not been confirmed by any facts except for the existence of the crust.

Structure of the Planet

The proposed structure of the planet can be

likened to a huge rotating vessel with rather thin and slightly elastic walls, filled with material of varying composition and properties. Under the influence of external gravitational forces — for the Earth, these are mainly the Sun and the Moon — this material will not only separate by density but will also move in response to these forces, sliding along the inner part of the planet's crust.



Figure 1: Concrete mixer — an analogue of the behavior of the planet's internal mass under the influence of external gravitational forces.

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At the same time, the heaviest, positively charged parts will be located on the side facing the external gravitational forces — closer to the Moon and the Sun [1].

This can be interpreted by imagining a rolling spherical aquarium with contents or a rotating gravitational concrete mixer.

And the movement of this mass is clearly recorded on the graphs of gravitational force measurements, and the nature of their behavior does not depend on the location of the measurement point.

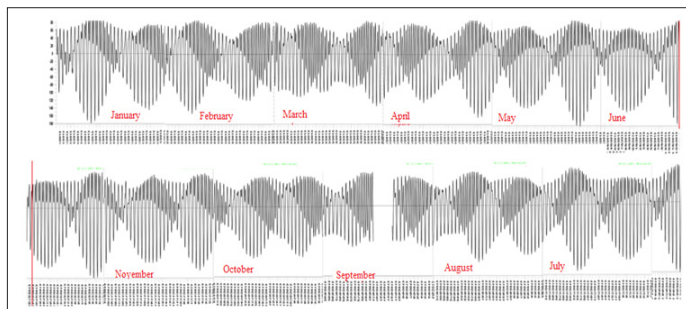


Figure 2: Behavior of gravitational forces in 2013 up to 22 June, the day of the summer solstice, and a mirror like pattern thereafter. Complete agreement of the data. Coast of the Sea of Japan.

The influence of oppositely directed gravitational forces — from the planet's internal mass and from external sources (the Sun and the Moon) — results in a rather complex pattern in the graphs and is difficult to analyze numerically. This is because the internal mass of the planet may split into two parts or merge, depending on the relative positions of the Sun, the Moon, and the Earth. Additionally, the trajectory of the internal mass — and thus the gravimeter readings — depends on the time of year (seasonal trajectory migration) due to the tilt of the Earth's axis of rotation. The tilt of the Moon's orbit relative to the Earth's ecliptic plane also has an effect

External Manifestations of Internal Processes

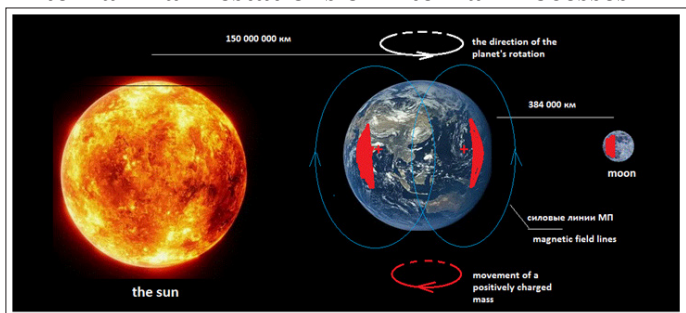


Figure 3: How the internal mass separates, becomes polarised, moves, and generates a magnetic field

On the surface of planets, this movement manifests as a number of natural phenomena whose physics was not understood until recently. With the shift to a different structural model, everything has become easy to explain — without inventing hidden phenomena, which Newton disliked when formulating his laws and which modern geophysics is so full of.

Brief list of Observed Phenomena

- magnetic field — the physics of its emergence, its shape and direction on different planets, geotectonics,
- major, defining equatorial currents and their seasonal migrations,
- equatorial high altitude winds,
- equatorial countercurrents and the mystery of their formation,
- ocean tides and their unusual behavior,
- heating of the planet's internal mass,
- mountain formation,
- movement of continental plates,
- earthquakes, the abrupt change in astronomical time during them, and the generation of electromagnetic disturbances,
- volcanoes — the causes of their occurrence, as well as the unusual behavior of clouds above them,
- movement of sunspots and the differential motion of various parts of the Sun (and not only of the Sun),
- one sided movement of the Moon and many other satellites in the Solar System.

In addition to the external manifestations, this helps explain, for example, the genesis of oil — a long standing question for science — and it turns out that this process places oil in the category of renewable natural resources (though this does not mean it can be used endlessly or unwisely) [2].

When considering this, it is necessary to take into account the invalidity of certain generally accepted concepts; using them leads to a distorted understanding of the structure of planets and the physics occurring inside them.

Concepts Adopted in Geophysics that are not Real, that do not Exist

1. **The “Coriolis force”.** This force does not actually exist. It is a conditional “force” introduced to describe the behavior of a body when moving between different frames of reference.
2. **Satellites do not fall onto their planets, nor do they miss them.** Therefore, within these bodies, mass separation by density is possible due to mutual gravitation.
3. **Convection inside the planet.** There is no convection in a closed planetary body, and there cannot be. All effects attributed to it do not exist.
4. **A nuclear reaction (radiogenic hypothesis) cannot be considered the source maintaining the high temperature inside the planet.**
5. **Ocean tides do not correspond to — and are even opposite to — the tide (bulge) of the Earth's crust.**
6. **Classical physics does not include the concept of “geodynamo”, which is supposedly responsible for creating a planet's magnetic field.** A magnetic field is created by an electric current or by a permanent magnet magnetized by such a current.
7. **Transverse S wave.** It cannot propagate within the planet's body, and nothing can be measured with it.
8. **Natural oscillations of the planet** — they do not exist and cannot exist.

Detailed refutation of these concepts [3].

Now let us Return Directly to the Topic of Moon Exploration

It turns out that the Moon had the same structure as the Earth currently does, and it also rotated in the same way — and the following facts support this:

- The Moon used to have a strong magnetic field, which is only possible with the movement of charged masses and rotation; now it has only a residual field — in the form of magnetized soil components.
- The Moon has meteorite craters on both sides, not only on the side facing outer space, from where the meteorites come.

During the Moon's cooling process, its internal mass stopped moving within the crust and became concentrated in one direction — towards the Earth, turning the satellite into something like a “tumbler” (“Vanka vstanka”), a well known toy that works due to a heavy mass placed at its base and, in Earth's gravitational field, always assumes a position with its heavier part facing the Earth. By the way, most satellites in the Solar System behave this way relative to their planets.

This is Precisely the Reason for the Moon's Rotation Around its Axis during its Orbit Around the Planet [4].

Just like this toy, the Moon sways slightly, producing libration and making it possible to glimpse slightly beyond the geometric boundary of the satellite's outline.

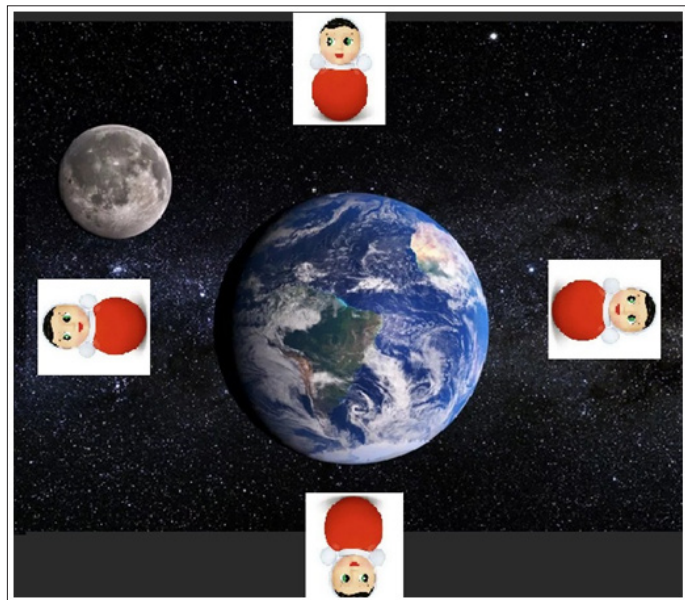


Figure 4: The Moon's behavior as it orbits the Earth.

Now, if we continue the analogy between the Moon and the toy, it should be noted that the thickness of the toy's walls (including the weight) is not uniform around the circumference — just like the satellite's crust — being thicker on the side facing the Earth [5].

On the opposite side, it may be very thin and could be easily

disrupted even by a minor mechanical impact, let alone explosions. And according to some data, it is precisely through such means that there are plans to explore the Moon.

Even a simple destruction of the satellite would lead to a drastic change in Earth's climate, a shift in its magnetic field, and a change in the major (and thus also the secondary) currents — and consequently, again, to cataclysms [6].

Conclusions

This article, which is rather intended to illustrate an alternative model of planetary structure, aims to show how little humanity knows even about its own planet.

For millennia, we had no understanding of its structure; only thanks to the measurement data obtained on Earth and other planets has the internal nature of our planet — hidden from the observer's eye — been slightly revealed.

Yet even now, there are more questions than answers.

And at the same time, we are carrying out dangerous experiments on it — nuclear explosions, global pollution with plastic and oil waste, constant wars with their destructive consequences, reckless technological development, ever growing consumption, and an endless thirst for profit.

So many things had to come together — and in one place — for this world to emerge and become what it is. And yet it can be lost so easily. This world is fragile — and truly unique.

Stay healthy and sensible. Wishing everyone peace and kindness.

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Dedication

I dedicate this work to my grandson Yaroslav, with the hope that he will study Earth science taking into account the information presented here.

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