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The Geotheory of Growing Earth: My Viewpoint of Cosmic Core Kernel Transformation

Vedat Shehu

1. MY INVOLVEMENT IN GROWING EARTH THEORY

I am obliged to point out that, like all the other geologists of my generation, I had never heard a word about Earth Expansion/Growth during school and for two and a half decades of research work after graduating in 1959 (as a foreign student from Albania in Czech Mining University, VŠB).

1.1 The beginnings of my engagement with the basic problems of the Earth

Regardless that I have not aimed to meddle in the astrophysics of the Earth's origin and to discuss relevant problems, in a moment, meditating alone I envisioned Earth should grow if its interior contained a cosmic energetic factor since its formation, and I became briefly a freelance researcher arguing this idea against the standard theory of the Fixed Earth size. Immediately I wrote out 28 points to validate and argue this idea of mine.

Already, as it seems to me now, this sudden strong turn in my way of thinking was caused because the background of the accumulated concepts, still dormant in my imagination, immediately came into action. These concepts were for all the widely known problems of the Earth, connected with its origin as a cosmic object in a planetary system in an orbital position 26,000 light years from the Galaxtic Center, dealing with the discussions of all theories and hypotheses, starting from the planetary system, continuing with the universe origin in the Big Bang¹ and ending with my concept. The latter is about the relationship between granite-basalt, and this was connected with my study of the origin of a rare granitic thick lode² penetrated within a suit of the basalts of the ophiolite belts. That caused me to look at the unusual insufficiency of radioactive isotopes in granites and basalts, i.e., in the Earth's mass. I thought about cutting the peel of an orange or the bark of a young tree trunk with a knife. Both cutting lines become wide furrows after growth. These concepts became the driving force for me to seek and persist with the effort to find the truth of the Growing Earth.

1.2 My Engagement with Earth Growth

Firstly, I found an article, *The Earth that Is Expanding*³, from V.F. Blinov in the Russian Journal Earth's Physics (Fizika Zemli 1973, n 1). It opened up wide horizons to me.

Later, I found a book, *Plate Tectonics - assessments and reassessments*⁴, including even the opposing fixist articles (of Meyerhof and Beleussov). After I learned Plate Tectonics theory, I included the amazing data from the ocean floor that argues for the Earth's growth. The continents, being fixed to their basement, are going away from each other, not by tangential, but by radial shift, while I saw the subduction and asthenosphere mechanisms as improbable, and a futile art.

I argued this idea in a long article submitted to the Geological Journal, but only in Albania. The editorial board of the Journal dismissed the article as unpublishable, detached from research practice and containing unacceptable ideas.

After rejection of the article by the editorial board, I began to work even harder to outline my interpretation of the Earth's growth in a separate book.

When I was in the final phase of writing my book with the title, *Developing Earth*, meaning through the Growing Process, I found Carey's book, *The Expanding Earth* (1976)⁵, a foundational work arguing Earth's Expansion, by which my own horizon expanded further.

¹ Erickson (2008).

² Shehu (1971).

³ Blinov (1973).

⁴ Kahle (1974).

⁵ Carey (1976).

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Eventually, I presented my book to the Publishing House in 1981. After the editorial board had finished the preparation to send it to the printing press, the editor-in-chief informed me that the original reviewers were not at the right academic level, and a copy of the book had been sent to the Faculty of Geology and Mining for a new academic evaluation. The publication remained in the Faculty archive until the editor-in-chief retired in 1988, when the obstacles were then overcome without further delay. The interim editor-in-chief Mrs. Karmen Pashai realized publication in 1988¹, naturally in Albanian, in Tirana. Only my nephew Paqesor Shehu, a student of philosophy at the time, evaluated and accepted my idea enthusiastically and stimulated me to continue to prove and publicize such a remarkable theory. Furthermore, through rare discussions, he was always a good consultant to me in this new world view.

1.3 The new phase of my Growing Earth Theory, in English

To make my version of Earth Growth known to a wider scientific audience, I compiled its essence in English, and distributed it in different directions, but received no response. So, I stayed silent for a long time.

At the beginning of the 21st century, I went back to explore and refine my theory, but this time in English, and as I was finishing the English adaptation, I found online Lawrence Myers' article on Earth Expansion², and after a short communication with him, he put me in touch with Giancarlo Scalera in Italy. When he became acquainted with my book in Albanian, he sent me a short response: "you wrote a pondered scientific book, congratulations, welcome to Urbino Workshop (2004)". I presented my article to the workshop, and I took with me four copies of the newly published book in English. Beside Giancarlo Scalera, an Italian, and Lawrence Myers, an American, I met there and discussed with many others, especially Cliff Ollier³ of Australia and Karl-Heinz Jacob of Germany. I gave each of them a gift of my book in English, edited in Tirana a week before.

After a while, Cliff Ollier sent me his impressions of the book, noting that the next issue in the USA had to be cautiously corrected. Furthermore he wrote the preface to the American edition of the book with the title, *The Growing and Developing Earth*⁴ (2005). This preface

¹ Shehu (1988).

² Myers (2004).

³ See also the chapter by Cliff Ollier.



Fig 1. A picture from the presentation of the theory at a Special Meeting organized by the Directorate of Geological Service of Albania, July 25, 2011. From the Left: Professor Afat Serjani, organizer; the author Vedat Shehu; Professor Adil Neziri, Director of Survey and the organizer of the Conversation.

was published in NCGT Journal 38. Furthermore, eleven years later he wrote the preface to my concise edition of the theory under the heading, *The Earth's Core, an Energetic Cosmic Object*¹ (2016), where I determined the core as a Sun-like star in miniature within a stony silicate shell. Before this edition I presented the theory under another title in a workshop held in Italy (2011), and it was edited in the Workshop's selected papers.² I also continued to present my theory in different activities in Albania.

1.4 Essence of my Geotheory

The individuality of my interpretation of the Earth's growth is the determination of the Core Kernel, a transformable ultra-dense, ultrathin cosmic matter, positioned as center-spherical, burning layer at the inner peripheral belt of the molten geosphere (outer core) above the solid inner core.

The entire oceanic crust with upper basaltic layer formed gradually by flowing up and hardening the volcanic lava around the old crust of the continents with top granitic layer, is an irreversible process, argued through transformable Core Kernel, as an energetic factor causing the Earth's growth. In addition, the Earth's growth is also demonstrated in another way, by the defects of the Earth's origin in fixed size, as argued by me. These defects are connected with the Earth's core interpretation that it has being allegedly precipitated in molten state and still is radiating its accumulated primordial heat, and moreover, the heat being not enough for Earth's activity, is fulfilled by the heat radiated by decay of the atom's nuclei of the radioactive isotopes, very scarce in the Earth's rocky silicate mass.

Consequently, Core Kernel is the pivot of my Geotheory of the Growing Earth, because it is the only way to refute Earth's fixed size, the false premise of the Plate Tectonics' supporters; while they have

⁴ Shehu (2005).

¹ Shehu (2016).

² Shehu (2012/2011), Shehu Scalera et al. (2012).

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Fig 2. Vedat Shehu presenting "The Earth's Growth from Core Kernel Transformation, Geotheory of Cosmic Matter Transformation" at the Hall of the Academy of Science of Albania", November 10, 2016.



Fig 3. Right view on seats; from left: Dr. Ing. Arben Pambuku, President of Geological Society; Dr. Eng. Viktor Doda, Director of Albanian Survey; Ing. Tonin Deda, specialist, supporter of theory; Thanas Gjata, Prof. Asc – supporter of the theory, author of a publication titled "Dialogs on the Veracity of the Earth's Growth".

unfairly labelled Earth's Expansion/Growth as a pseudoscientific belief. $^{\rm 1}$

This is why I have come to the conclusion that it is impossible to prove the Earth's Expansion or Growth without refuting simultaneously defects of the premises of the Earth's origin in fixed size, as it is a standard hypothesis with cosmological authority, whereas Plate Tectonics justifies its inventions with tricks, e.g. asthenosphere and subduction.

Thus, my Geotheory belongs into a new scientific field untouched before; in a border line between geoscience and cosmic science.

¹ Sudiro (2014).

2. THE CORE KERNEL OF THE GROWING EARTH, DISCLAIMER OF ASTROPHYSICAL THEORY OF FIXED EARTH SIZE

2.1 Defects of the Standard Theory of Fixed Earth Size

Here I wish to highlight the defects of the standardized cosmological hypothesis of Earth's fixed size. These defects are:

- First, it does not explain the factor that triggered the calm nebula to swirl and transit its material into a planetary disc of the solar system.
- Second, it supposes wrongly that the Earth's inner heat (as for every planet) is generated from the improbable accumulation of the primordial heat and the heat released from the decay of the radioactive isotopes scattered in the mantle and crust; but the heat from these two source, as is calculated by nuclear, particle and quantic physicists, can produce maximally 50% of that energy that is radiated by Earth into space, and the source in order to fill the 50% deficit remains unknown, an open problem of the unanswered question¹.
- Third, the standard hypothesis suggests wrongly that the Earth's core is a percolated² inert mass still in inert molten state since its formation, while, already it can be seen that the core expresses its independent energetic structure. Naturally, these three defects of the standard theory are strong facts negating the fixed Earth size to be the standard theory. They actually reinforce the Earth's Growth from Core Kernel transformation.

2.2 The Reality of the Tectonic Plates of the Growing Earth, Not of Fixed Earth of Plate Tectonics

The reality of lithosphere fragmentation by global fault lineaments in large global areas called tectonic plates, as presented by Plate Tectonics and the gradual growth of the basaltic oceanic lithosphere around

¹ Leyton & Monroe (2017).

² Shannon & Agee (1998).

granitic continents, both clearly demonstrate the crustal growth around continents.

The factual data does not support the Earth's constant size as envisaged by the Plate Tectonic interpretation. In this it continues the old Wegener's hypotheses¹. In reality, these presentations provide evidence of the Earth's growth.

2.3 Nullification of the Plate Tectonics' Subduction

Both subduction and the asthenosphere² of Plate Tectonics are untrue artifices invented to argue for the Earth's fixed size, where is seen that the growing lithosphere sinks and is circulated by flowing in the asthenosphere.

The old published idea of Earth expansion³, was newly reinforced by many theoreticians⁴, and proponents of the Expanding Earth Theory, and some interpreters of the Earth's growth⁵. They, with new views on the data of the oceanic floor, have reconstructed the old idea⁶ into the scientific basis of the Expanding/Growing Earth, and they have argued against the existence of subduction. Continental slabs were grown by oceanic crust formation of upcoming and stiffening magma along the rift lineaments of the mid oceanic ridges. But it is clear to me there are no places for subduction's trenches as is interpreted by Plate Tectonics.

Some authors commonly argue as unacceptable the improbably⁷ of Plate Tectonics's subduction, but do not remove the concept of fixed Earth size to consider the continents' drift as a result of the Earth's growth.

Experimentally, the Earth expansion supporters, through modeling of the Earth's globe, showed that all continental blocks fit together in a model of the earth globe with a radius about 1.6 time smaller than its current radius⁸, representing 40% of today's surface. Furthermore,

¹ Wegener (1912).

² Condie (1997).

³ Scalera (2009).

⁴ Blinov (1973), Myers (2008), Owen (1984), Scalera (2003), Scalera et al. (2003/1933/1939), Scalera (2011), Scalera (2012), Scalera (2011b), Scalera (2006), Scalera (2009), Maxlow (2005), Cwojdzinski (2012), Ollier (2003), Shen et al. (2008).

⁵ DeHilster (2008).

⁶ Scalera (2009).

⁷ Storetvedt (2010).

⁸ Vogel (2012).

expansion can explain precisely the fragments of continental crust within the oceanic crust¹ identified in 85 cases.

2.4 Growth of Matter Transformation Versus Expansion in Global Tectonics

Here in Fig. 4, I explain the difference between the concept of the Earth's growth and Earth's Expansion. Growth is seen as a process in a growing fruit (Fig. 4A), in a growing tree trunk (Fig. 4B, 4D) through matter transformation from unliving chemical processes to living ones, while expansion means inflation as a balloon or a ball (Fig. 4C). In Earth occurs growth from matter transformation from the ultra-dense state to common state and not expansion of unknown process of transformation.

I compare the growth of a peach with the growth of the Earth. The grown of the core (pit) of the peach fruit is grown together with its coverings through a certain biological process of matter transformation, while the Earth's core's coverings are growing by other process of matter transformation by a transformable Core Kernel.

¹ Yano (2011).

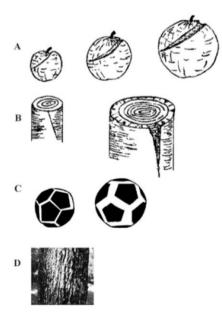


Fig 4. Difference between the notions of expansion and growth: The Earth's expansion as inflation of a ball (C) and the Earth's growth and development as growth of a fruit or a tree trunk (A, B, D) (Author)

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I will prove its existence and role further in this article, according to the difference between the concepts of the Earth's Growth and Earth's Expansion as I use the terms related to Fig. 4. In Earth there is growth from matter transformation from the ultra-dense state to a common state and not expansion of unknown process of transformation.

3. THE CORE KERNEL, COSMIC FACTOR OF THE GROWING EARTH AND PLANETS

Continuing with this explanation of the determination of the function and origin of the Core Kernel, I should complete my Geotheory that belongs in new scientific field, untouched before, on the border between the geoscience and cosmic science.

Historically the Plate Tectonics of subduction and asthenosphere was evaluated by scientific consensus as the correct interpretation, and expansion was considered an impossible idea. On the contrary, in the following I prove that the Core Kernel is a real factor of the Earth's growth. It is a planetary process that denies the concept of an Earth of constant size, the mistaken premise of Plate Tectonics.

3.1 Identification of the Core Kernel, True Factor of Energetic Core and Growing Earth

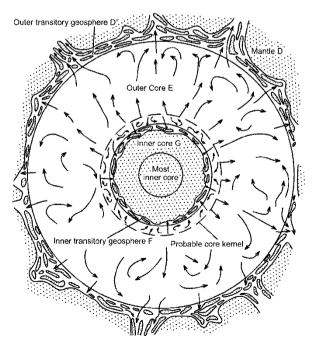
The liquid outer core (E) is a key part of the core, and further of the Earth, and its molten geosphere points clearly to the energetic structure of the core, as is seen here in Fig. 5. It attracts immediately our attention as most important geosphere of the core's energetic structure by its molten state and its mass occupying about 29 % of Earth, being 11-time lager than the inner core. Furthermore, its molten mass crossing bordering transitory layers (D" & F) is predominantly going outward to the viscose-solid mantle (D) and fragmentarily inward to the solid inner core (G). This energetic structure is a consequence of the Core Kernel transformation.

I considered the most likely position of the Core Kernel, as I drew it in Fig. 5, by the dashed circular line between both cores. It is placed a little inward of the inner border of the molten geosphere, i.e., of liquid outer core (E), representing an ultra-dense ultrathin centerspherical layer in a cosmic burning state. Thus, I am obliged to stress that the molten geosphere is a magma's reservoir in dynamic equilibrium; the same molten mass with its associated heat that outgoes from the reservoir, is immediately replaced by Core Kernel transformation.

3.2 Plumes, The Conveyors of the Molten Mass Produced by Core Kernel

Plumes are determined by geophysicists as hot pillar-like structures crossing the mantle within the relatively colder mass that connect molten outer core with volcanic foci.¹ This is an incorrect explanation by supporters of the Earth's fixed size.

The Plate Tectonic interpretation considers plumes only as paths of the heat flow from the core-mantle boundary toward the volcanic hot spots. In contact with lithosphere, it melts the mantle causing allegedly so called flowing asthenosphere, the Tectonic Plates' mechanism that allegedly causes circulation of the lithosphere to hold the Earth at a fixed size. In fact underneath of volcanic foci is the prolonged head of the molten mass that was conveyed by the plume pillars. The plume's structures convey the molten mass of the magma's reservoir outward supplying the volcanic foci with magma and sometimes volcanic eruption.



¹ Lay et al. (2008), Romanowicz & Gung (2002), Young & Lay (1987).

Fig 5. Energetic Structure of the Earth's Core with its distinct molten geosphere, outer liquid core between the solid geospheres of inner core G and mantle D. (Author)

3.3 The Indiscernible Core Kernel, Defining Traits

The position of the indiscernible Core Kernel is impossible to be dictated even by the speed of the seismic waves during the crossing of so an ultra-dense interval, but we distinguished it by scrutinizing the demonstrative effects pointing to the cause. Furthermore, I see an additional fact as an effect of the Core Kernel position. The full rotation of the inner core (in 24 hours) is done faster than the entire Earth, by a fraction of a second; it means that after about 355-360 years the rotation of the inner core outruns the spin of the entire Earth (including the molten geosphere) for a day. It is another datum pointing to the Core Kernel existence and its positioning as a screen separating both cores; upward and inward of the Core Kernel's center-spherical layer.

The separation of the magnetic axis from the geographic one probably belongs to the Earth's separation in two spinning spheres, by Core Kernel screen-like layer.

Composition of the Core Kernel - I determined the composition as ultra-dense transformable matter by applying Einstein's determination that energy is matter, already known in the different fields of modern physics; in particle physics1 and quantum theory2 about how physical fields interact with matter³. Then the guessed particles, sub-particles and ultra-particles, since neutrinos to gravitons, related to the theory of the ultra-dense matter of quarkneutron star, black hole; the gravitomagnetic theory⁴ are components of ultra-dense matter. Furthermore, according to the unified scientific concept of matter shapes that actually has been reached⁵, Core Kernel , determined by me as transformable ultra-dense matter, present matter shapes unification in Earth's energetic core transiting the state of the particles and ultra-particles from their ultra-dense state to common state of the atom-molecular shape and energy shape.

Calculation of the Core Kernel's Mass - By my observation the standard calculation of density and responding mass on dependence of density by speed of the seismic waves, I found a discrepancy in this dependence for the central geospheres (i.e. molten geosphere and inner core) and consequently, I recalculated the corresponding mass of the molten outer core and the inner solid core and found it reduced to nearly one-third to one half the standard mass. This reduction

¹ Close (2004).

² Hooft (2007).

³ Hooft (2007).

⁴ Elbeze (2013).

⁵ Afshordi et al. (2014), Anderson et al. (1999), Barcelo et al. (2009).

belongs to the mass of the Core Kernel as part of the core that might constitute at least 10% up to 15% of the total mass of the Earth, it means 1/10 to 1/15 of the Earth mass, that is $5.9736-10^{24}$ kg, then probably the Core Kernel mass is = $5.97-10^{23}$ to $8.96-10^{23}$ kg, which would be exhausted in more than half a billion years.

The Core Kernel as Cosmic Fire: I compare the Core Kernel with the common wood fire, which, through burning transforms the combustible wood into heat and non-combustible remnants, ash and gases. The Core Kernel through spontaneous transformation burns a cosmic fuel, producing wave corpuscular fluxes of the energy, including heat, and leaves the unburnable cosmic particles and ultraparticles becoming atom's nuclei composing magma and rocks, as cosmic ash. By this Core Kernel's function, it cannot be of a neutronic mass of the Earth's inner solid core¹.

Ultra-dense cosmic matter of massive star, when explodes ignited, burns as a cosmic fire as in the case of the explosion of the supernova event associated with nucleosythesis.

The Core Kernel disintegration resembles the Sun's process of the nucleosynthesis, that which, produces atoms' nuclides, simultaneously releases the physical fields of the wave corpuscular fluxes of energy (electromagnetism, magnetism, gravity and neutrinos' radiation). The Core Kernel likewise releases subparticles of the nuclides' of the atoms of the Periodic Table, produces even the wave-corpuscular fluxes of the physical fields (electromagnetism, magnetism, gravity) including radiation of the geoneutrinos² and geothermal heat. So, the geoneutrinos are not released from radioactive decay, as is usually interpreted³, but like solar neutrinos, from the Core Kernel transformation.

This is why the scientists of antiquity considered fire the source of energy, a matter, as is the Sun, a cosmic fire, as every star supplying the cosmos with energetic fluxes and with cosmic ash, the dust of rocky particles.

Even the shape of ultra-dense cosmic matter, when is ignited, burns as a cosmic fire as in the case of the explosion of the supernova event associated with nucleosythesis.

The Core Kernel disintegration resembles the Sun's process of nucleosynthesis, that which, produces atoms' nuclides, simultaneously releases the physical fields of the wave corpuscular fluxes of energy (electromagnetism, magnetism, gravity and neutrinos' radiation) just as the Core Kernel, during the transformation releases the

¹ Marvin (2003), Marvin (2014), Noel (2013).

² Mareschal et al. (2012).

³ Leyton & Monroe (2017).

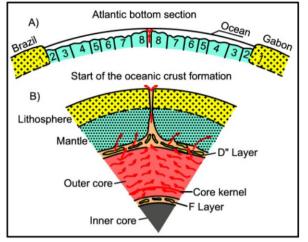


Fig 6. Gradual formation of the crust of oceanic bottom of the Atlantic Ocean (A) starting from moment of broken unique continental crust (B). (Author)

subparticles of the nuclides' of the atoms of the Periodic Table, produces even the wave-corpuscular fluxes of the physical fields (electromagnetism, magnetism, gravity) including radiation of the geoneutrinos and the geothermal heat. So, the geoneutrinos are not released from radioactive decay, as is usually interpreted¹, but similarly as solar neutrinos, from the Core Kernel transformation.

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It is why the ancient scientists considered fire, the source of energy, as a matter shape; as is the Sun, a cosmic fire, as every star supplying cosmos with cosmic ash, the dust of rocky particles².

3.4 The Crust Growth, Manifestation of the all Geospheres' Growth.

The growth of the entire Earth is demonstrated in the direct observable most upper geosphere in the crust. Here in the scheme of the double figure, A & B (Fig. 6) is drawn the growing effect of the Core Kernel transformation causing gradual formation of the Atlantic Ocean crust, as is presented in the upper part A from the oldest basaltic belts attached at distanced continents' boundary (2-2) up to newest sequential ones at both sides of the current global lineament (8-8), where it is still upcoming magma. In the lower part B, is seen the magma reservoir (outer core, in red) and the path of the outgone magma outward passing through D" transitory layer and inward through F transitory layer, just when started the formation of the new crust (lithosphere) of the respective oceanic bottom.

¹ Leyton & Monroe (2017).

² Low & Kristna (1970).

More completely, the Earth's growth, is presented here in Fig. 7, orientated toward South Pole, for full view on the inner geospheres expressing the process of the growth.

The formation of the sequential basaltic belts of the top layer of the entire oceanic lithosphere (14) around continents (13) are analogues of sequential formation of the inner center-spherical layers from the older one (11) beneath the lithosphere and following in succession to younger layers (10,9,8,7) up to transitory layer (6), which convoys the molten mass from the magma's reservoir (5) outward. Naturally, a fraction of the molten mass flows through transitory layer (3) into inner core (2 &1).

3.5. Global Ophiolite Belts, Evidence of the permanent Process of Earth Growth

The presence of ophiolite belts is observed within continental crust during eons, and Pacific "Ring of Fire".

A detail on how ophiolite belts are formed through the growing Earth process is shown in development of the Albanian, as is presented here in Fig. 8. The Albanian territory (Albanides a,b), a short characteristic segment located in central western Dinarides of the Alpine-Himalayan mobile orogenic belt which includes even the

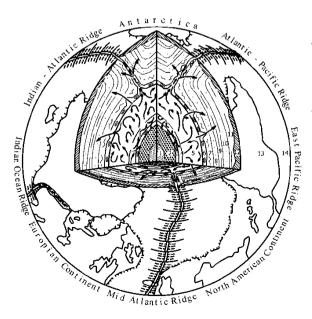


Fig 7. The view inside the globe orientated with south on top, showing three rift valleys of the mid oceanic ridges for better presentation of the connection inner growing the center-spherical layers with the gradual formation of the basaltic belts of upper layer of the oceanic lithosphere.

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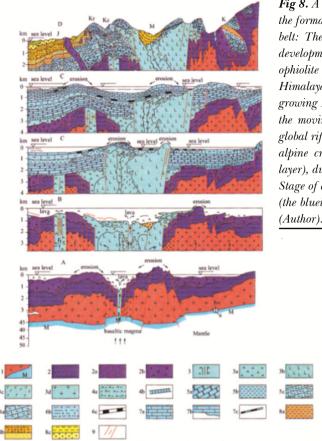


Fig 8. A detailed Scheme of the formation of the ophiolite belt: The structural development of the Albanian ophiolite segment of Alp-Himalayan belt, during the growing Earth process, and the moving apart of the global rift walls of the Antealpine crust (the violet layer), during the Alpine Stage of crustal development (the blueish-green layers) (Author).

Mediterranean as a nascent ocean. This ophiolite belt began to form in the eve of Alpine tectonic era (Perm-Triassic, greenish blue formations: 3a, 3b, 3c, 3d, 4a) and was continuing to form among the older crust fragments with overlapping layers of the older tectonic era during Caledonian and Hercynian stages (violet layers 2, 2a, 2b), when starts the formation of the albanian geo-structures during Alpine development (greenish blue formations: 3a, 3b, 3c, 3d, 4a; beige and yellow).

The absence of a top granitic layer above the ophiolite belts tells us that the during penetration of the ophiolites as additional mass to the basaltic magma and the mantle's fragments, the tectonic fault's side walls of the crust moved apart and minor, slow Earth's growth occurred. Surely, such development of the ophiolite belts show that they are not klippe of nappe, as they are interpreted by Plate Tectonics

in the Alp-Himalaya belt¹. Nor are they the remnant indicators of oceanization². Their composition and structural position clearly show that they are formed in situ through a growing Earth process. The Ophiolite belts demonstrate the process that causes formation of rock types of oceanic floor along the rift valleys of the mid oceanic ridges³.

This means that Earth's growth was not a spontaneous process that started 200 million years ago, but a permanent process from Core Kernel transformation. The rapid growth began and was demonstratively manifested when the dominant paths of upcoming magma were stabilized forever and became the global rifts of the current mid oceanic ridges. The process can be clearly observed today, and is the continuation of the gigantic phenomenon of the ocean crust growth, and the Earth's growth.

3.6 The Core Kernel Transformation As Cause of the Geodynamic phenomena

Fig. 9 shows the effect of the plume's molten mass, when it is convoyed upward and penetrates the lithosphere. It is accumulated in different locations and levels. Some becomes the foci of the volcanic lava erupted at the surface. Some does not move upward but accumulates up to a certain size, when it causes gravitational disequilibrium.

The restoring of the gravitational equilibrium causes relative movement of blocks. Slow tectonic movement during causes folding, while instantaneous shift of the tectonic block causes earthquakes⁴.

³ Dimitriev et al. (1971).

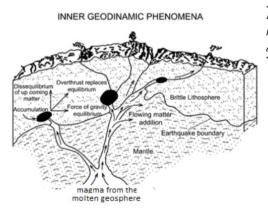


Fig 9. Schematic block-diagram of the inner geodynamic phenomena and processes (Author)

¹ Yuecheng et al. (1998).

² Orlenok (2010).

The shift of one tectonic block (or plate) over another occurs diagonally when the radial (vertical) direction of the force of gravitational disequilibrium of upcoming magma and its consolidation in the shifting block is opposed by the tangential (horizontal) force that is replacing the ruined equilibrium causing overthrust of replaced equilibrium. The acting forces of the replacing gravitational equilibrium is drawn by me within the mobile block in Fig. 9.

Seismologists supporting Earth's fixed size negate the upcoming magma from the molten geosphere (outer core) through a plume structure, and they interpret it as only heat flow that starts; "from the core-mantle boundary through channels for the core-derived energy to rise to the shallow Earth. The seismic energy is stored in the nearest available space"¹ causing earthquakes.

According to some observations, earthquakes may be incited even by the Sun's activity² and might be triggered even by the Sun-Moon position related to Earth tides³.

The earthquake shock is not a spontaneous event, but is a result of the gradual processes caused by Core Kernel's transformation producing the magma and energy, which, through their accumulation within the lithosphere bring signals in the earthquake's epicentral zone. These are: the emanation of particles, sub-particles and nuclei of Helium-3; disturbance of the local Earth's physical fields are geomagnetic, geo-gravitational and geothermal fields. If these phenomena, adding even slight deformations of the crust geomorphology *et cetera*, would be observed, recorded, and used as diagnostic signs, then the respective registrations would trace the way that would enable seismologists to predict easy the shock of the strong earthquakes at the hypocenter.

3.7 Core Kernel in Planets

Since the beginning of the planetary system formation, the cores of the initial planets were formed with different size according to the mass of the Core Kernel of each planet during the process of the planet-formation transiting the dispersed matter of the nebula into the objects of Solar System. The rock droplets within nebula are mainly from rock minerals composing basalts of the Earth, planets, dwarf planets, and comets⁴.

4 Scalera (2006).

- ¹ Choi (2010), Choi & Maslov (2010).
- ² Love & Thomas (2013).
- ³ Kokus (2004).
- ⁴ Zolensky et al. (2006).

Commonly, the planets with a smaller mass of the Core Kernel and smaller gravitational field are nearer to the Sun, in the inner part of the solar disc and were developed without gaseous cover, while the planets of the lager mass of the Core Kernel are far from the Sun, in the outer part of the solar disc, and they were consolidated with very thick gaseous cover.

The basaltic volcanic crust of the Earth's oceans is similar to the volcanic basaltic crust observed in Mercury, Venus, Mars, and in our Moon¹, as well as in dwarf planets and in small planet-like objects², as a result of their Core Kernels transformation. Regardless of their mass, the presence and degree of the Core Kernel consumption up to exhaustion is clearly even by current existence of magnetic field. The Existence in these planets the basaltic crust without current volcanic activity is clear evidence of the exhausted of Core Kernel transformation, the source of previous intensive volcanic activity.

The peculiarities of Mercury, presented in Fig. 10, point to its Core Kernel being in an exhausted phase, indicated by the very weak magnetic field (1.1% of the Earth's one), and by the presence of a very thin center-spherical layer in molten state.

The latter is a remnant of the outer core, covering the unusual large solid inner core. Both cores have an exaggerated large radius (75% of the Mercury's radius).

Let's add even more peculiarities: its size is 5% of that of the Earth's, the orbital eccentricity to Sun 3 times greater, and average orbital distance 2.6 times nearer to the Sun than that of Earth. My

¹ Wood (1968).

² Makarenko (1983), Peale (1999), Young (2010).

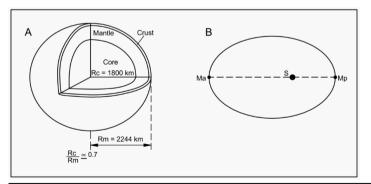


Fig 10. Mercury's peculiarities:

A: The Mercury's inner structure with very exaggerated large core. B: Mercury's perihelion of unusual position (more than three times of that of Earth) S " Sun; Mp - Mercury position in perihelion; Ma " Mercury position in aphelion.

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explanation of Mercury's peculiarities is that the exaggerated large inner core of Mercury result from the transformation of the relevant size of the initial Core Kernel that had produced lager silicate cover, but, its peculiarities influenced that the lighter and overheated, outer atom-molecular matter of the still unconsolidated planet might have been attracted by the Sun; when it probably had even a greater orbital eccentricity, and a shorter distance from the Sun.

Even on the large planets Jupiter, Saturn, Uranus, Neptune the presence of a Core Kernel in transformable process is indicated by their strong intensity of the magnetic field.

While, by an intensive volcanic activity is expressed presence of the Core Kernel in the Jupiter's moon Io.

3.8 The Sun, a gigantic core with its Core Kernel

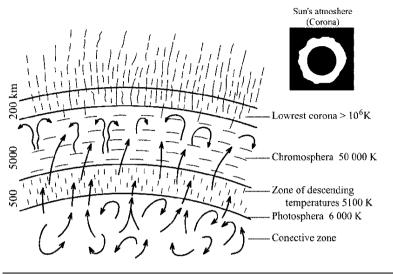
Observing the Sun's overheated atmosphere structure shown in Fig. 11, we distinguish easily unexpected temperature difference between the photosphere's surface (about 6,000 K) and at lower corona of the interval of 5500 - 5700 km above photosphere (> 1 000 000 K) that shows the centrifugal dispersal of the radiation from its inner energy.

The raised heat above the photosphere is consequence of the cosmic burning intensification, i.e., occurs the acceleration of the interaction and transformation of the ultra-sub-particles, released still unburned from the beneath of the lithosphere.

Analogically, this phenomenon occurs very probably even in the Earth's core; the outward going heat associating the molten mass released from Core Kernel, most probably, causes the highest temperatures in the mid-level of the molten outer core, before the start of the gradual cooling and solidifying toward the solid mantle.

Let's remember some known facts of the Sun-Earth interference as consequence of the same process between so much far objects, as is Sun and earth core, but connected by the processes occurring in both kernels in Earth's core as in a Sun in miniature, and in Sun as in a gigantic core:

 Earth's magnetic field is excited by the fluxes of the solar wind and also by the Earth's seismic activity around the epicenter some hours before an earthquake shock occurs; - The release of the solar-neutrinos is analogue of the release of the geo-neutrinos fluxes; - The helium-3 is result of the processes running only in Sun; while its presence in volcanic gases, as well as in natural gases, indicates that it is production of the Core Kernel transformation;



TEMPERATURES OF SUN'S ATMOSPHERE STRUCTURE

Fig 11. A schematic presentation of the Sun's corona (atmosphere) temperatures (Author).

 The Earth's largest earthquake events release preliminary fluxes that interfere with the fluxes of the solar activity. Such interference is identified as Solar Seismic Precursor and is related to the Sun's cycles¹, implicating the Sun's radiation in Earth dynamics².

In Conclusion, the core of the Earth is a miniature Sun inside the silicate cover, while the Sun is an ultra-gigantic core without the silicate shell or cool cover of gases as planets have, but the Sun is covered by overheated gases.

These conclusions allow us to interpret the Sun's phenomena better through the investigation of the Earth's core, and vice versa through Sun's observation we can understand the core's energetic structure better.

4.1 Cosmic Origin of the Core Kernel, DURING Transition of the Nebula to Planetary System

Already, the scientists concluded that supernova event might trigger the calm cosmic nebula to swirl³; so, this idea is in conformity with my

¹ Choi (2010a), Choi (2010b).

² Cataldi & Straser (2016).

³ Young (2010).

interpretation of the Core Kernel origin related to the explosive supernova's nucleosynthesis.

A supernova is a manifestation of an instant colossal explosion of a massive ultra-dense star, which ejects and disperses most of its mass in a violently expanding cloud of dust and debris associated with glowing radiation and process of nucleosynthesis (new element formation), reaching a diameter of the solar system or more, and looks like a huge star for weeks or sometimes months

The association of this unusual illumination with nucleosynthesis most probably points out the disintegration of the ultra-dense nanobeads. Furthermore, within the supernova's remnant mass is observed new formation of a fast-spinning neutron star.

In some cases, no spinning neutron star is observed¹. Probably, in this case, the supernova's ultra-dense mass has been totally scattered in space.

4.2 The Core Kernel, and the Earth's Formation among Planets

Hence, the ultra-dense remnants of supernova most probably incited the calm nebula to swirl and to continue to form planetary disc (Fig. 12)

These ultra-dense dispersed remnants like nano-beads, through the nebula's swirling, accreted, and became kernels of the potential cores as the fiery gravitational centers attract the dispersed mass of nebula and developed into planets. This conforms with standard interpretation of transition of the rotating nebula in planetary disk, with the specificity that Core Kernels gradually, through interaction with nebula material, were covered by convective metallic and silicate mass of the cores of the potential silicate proto-planets in molten state orbiting the gigantic dominant burning core, the young Sun of the potential planetary system. Afterwards, began the independent development of the planets, when the cores were consolidated and began to dominate attraction of the gaseous-dust-debris content of cloud over the atom-molecular mass produced from the Core Kernel, and at the end, the space of the planetary system was cleaned from the thick and dark material of cloud, and the planets were exposed forever in transparent space, but still in molten state in small sizes and ultra-high temperature. While the transformable Core Kernels continued to produce magma's atom molecular components and the corresponding associating heat.

¹ Schirber (2005).

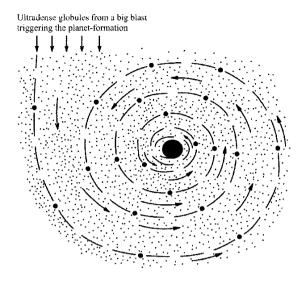


Fig 12. Scheme about formation of the planets' Core Kernels from the ultra-dense globules or nano-beads inside of the gaseous-dusty cloud of the initial solar system. (Author)

Thus, our Earth was formed and consolidated, and it then developed by known geological history, but also through the growing process of the Core Kernel transformation. The process of the stabilization of the entire Earth crust continued for a very long-time until the beginnings of the Proterozoic Eon, just 2.5 billion years ago (2.1 billion years after planetary system formation). But the development of the continental crust through the growing process, continued very slowly, until the growth has accelerated around 200 million years ago. Then the process of upcoming magma of the oceanic type was established among the ruptured continental crust fragments, causing their growth as global plates. The stabilization of the routes of upcoming magma toward the mid-oceanic ridges occurred when the growth of the silicate cover of the outer core has reached certain limits, and the thickened lithosphere reached a critical distance from the outer core.

4.3 The Planets Orbiting Binary Stars and the Remote Ones

The formation and development of the planetary system of binary stars¹, and remote planets verify the Core Kernel theory. It means that the presence of the transformable swirling spherules or Core Kernels within a nebula of the potential solar system is the factor that causes

¹ Hodgin (2008), Welsh & Doyle (2013).

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the nebula's swirling, and it can form and develop the planets even without the influence of a gravitational field of the responding star.

Consequently, the sun-like stars of main-sequence, substellar objects and planets are formed and developed by the same unique process, just as of the Earth's Core Kernel.

4.4 Energetic Core and research Problems

Hydrocarbons Geneses "There are two main theories about the origin of hydrocarbons (oil and gases) the biogenic theory and the abiogenic one. The theory of Core Kernel transformation confirms The abiogenic theory. The abiogenic formation of the hydrocarbon molecular bonds most likely occurs as a result of the direct synthesis of atoms of hydrogen and carbon through Core Kernel transformation as other molecular bonds. In an environment, where the oxygen has been exhausted, especially forming silicate minerals and stable oxides including water, the carbon and hydrogen are connected in their hydrocarbon molecular bonds (CnH2n+2).

Research in Ophiolite Belts - Through the Core Kernel transformation is argued that ophiolite belts are formed in their places (in situ), and are not the klippes of nappes, as are explained by Plate Tectonics along Alp-Himalaya orogen. So, the research perspective of the ore sources in the ophiolite belts is raised toward depth.

4.5 Core Kernel and the Big Bang Singularity

Regardless that it is at all seems as the Earth's processes and phenomena belong only to the geoscience, and I naturally have not aimed to meddle in the astrophysics or Big Bang's cosmology, and to discuss about the relevant problems, but the origin of ultra-dense Core Kernel from the ultra-dense remnants of a big intragalactic explosion of ultra-dense super massive star causing supernova event does face me with Big Bang image and singular expanding universe, which is also imitated by the expanding Earth.

Here it must be stressed that basis of the Bing Bang and the Universe Expansion was a wrong interpretation of the red shift in the spectra of the light of the distant galaxies, as if the shift is caused because the galaxies are travelling away from the Earth at a fantastic speed. Factually, this phenomenon occurs when the light wavelength released from the distant galaxies is shifted towards the red end of the spectrum, but this doesn't mean that this shift is result of the receding of the galaxies. Later, the important physicists and cosmologists concluded that red shift is a consequence of the phenomena occurring within light fluxes during its crossing different environments along an unusual distance of billions of light-years. So, some anomalous observations in redshifts from the distant galaxies are discussed.

The Core Kernel originating from the ultra-dense remnants of an intragalactic big explosion, i.e., supernova-like event, occurring in real space of interaction and transformation, has been adapted forcibly into the Big Bang hypotheses, as an absolute remote explosion in emptiness. The real world: The Earth, Galaxy and the galaxies of the continuing space, all are functioning of the matter's interaction and transformation. Every phenomenon and every existence in every point of the continuing cosmic space is a consequence of the interaction and transformation of the matter shapes. Naturally, the primitive notion of the universe, as space enclosed within Earth's sky is meaningless. The Big Bang singularity is an artifice that alludes to an expansion of an imaginary cosmic sky, that continually inflates and creates space from the nothingness. The supporters of the Bing Bang concept interpret many cosmic phenomena and new discoveries as remnants of this imaginary explosion and create the new ideas, that allegedly are facts from the Singular Big Bang.

The Big Bang theory is deeply opposed to the universality of matter unity¹, and some very important astrophysicists², evaluating the Big Bang as a mere creation myth. They concluded that the so-called Big Bang is "an event that emerged from nothing, no one has reason to think this event occurred in the distant past."

The interpretations about some cosmic phenomena as evidence of Big Bang event are baseless. The space cannot be enclosed and to form the universe as one single object.

CONCLUSIONS

Within the scope of this article, it has become possible to argue the Earth's growth by the real presence, function and origin of the transformable cosmic Core Kernel, and by the real documentation of the defects of the cosmological theory of the Earth's fixed size. Consequently, based in such arguments, the following conclusions can be drawn:

I. Hence, it becomes necessity that the theorists of the astrophysics and cosmology must consider the Earth's inner processes and phenomena as of a planet among planets of the enormous

¹ Sciama (2012/1959), Shehu (2004).

² Alfven (1984), Lerner (1992).

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Fig 13. The Publications of Vedat Shehu's theory as a book. Explanation: 1. First Edition (in Albanian), 1988 under title The Developing Earth, it means the Earth is developing through growing process of cosmic Core Kernel transformation starting since the process of planetary system formation from the nebula. 2. The Growing and Developing Earth, 2005 (USA, English); https://www.amazon.com/Growing-Developing-Earth-Vedat-Shehu/dp/1419616633 3. The Growing and Developing Earth, 2009 (in Albanian) 4. The Earth's Core, an Energetic Cosmic Object (2016, English, USA). It means "Earth's core is a Sun-like star in miniature within its stony shell, while the Sun is a super-gigantic core within overheated hydrogen and helium cover. Publisher: CreateSpace (March 31, 2016) and was presented to a meeting of the Albanian Earth's scholars at Library Hall of Academy of Sciences (October 11, 2016). Shehu currently lives at Boston, Massachusetts, USA. https://www.amazon.com/Earths-Core-Energetic-Cosmic-Object/dp/1512290874

planetary systems of the Galaxy, and to observe Earth as their cosmic object of investigation. So, they would confirm the presence, function of the Core Kernel as the factor of the ultra-dense transformable cosmic matter causing Earth's growth. If it would occur, then this change would offer epochal advances, especially in physics and general knowledge of the worldview.

2. The known outer liquid core is the magma's reservoir in the dynamic equilibrium; the outgone molten mass dominantly outward causing growth of stony silicate geospheres, and fragmentarily inward causing growth of solid inner core is replaced by same mass and heat produced from the Core Kernel transformation. So, the same mass disintegrated from the Core Kernel is constructed in atom molecular mass causing growth. So, the entire Earth, probably, grows in constant mass, if the cosmic graviton fluxes do not excite Core Kernel to absorb them into transforming process

3. The Earth's core should be seen as a star-like Sun in miniature with a rocky silicate coat, while the Sun may be seen as a gigantic core inside a cover of overheated gases. Investigation of the core would enable us to understand the Sun better, while observations of the Sun would help us to understand the Earth's core better.

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About the Contributor



Vedat Shehu is an Albanian America geologist. He received his doctoral degree as an engineering geologist from the Technical University of Ostrava (VSB) in Czechoslovakia in 1959, and in the course of his subsequent career was awarded with three labor prizes and a prize of the Republic. Furthermore, he defended the dissertation topic for the title of the doctor of geological science and then got the high title of the Research Lieder, equivalent to

Professor. After three years working for ore research, he was subsequently engaged until his retirement in geological engineering research in the mountainous tectonic zones, mainly focusing on studies of rivers for hydropower stations, and other important constructions; he was also involved in other studies, such as landslides, earthquakes and hydrology, producing many varied scientific papers. Specifically, his concept that the Albanian ophiolite zone was formed through process similar to those along the rift valleys of oceanic ridges, causing oceanic crust formation, became the factor that led him to deal with the great problem of Earth's internal energy and to determine a cosmic factor running as a kernel of the Earth's core since the formation of the planetary system. He calls this interpretation Geotheory (of Growing Earth of the Cosmic Core Kernel Transformation) and has published it several times in various forms since 1988. This essay was first published as a chapter in the 2020 book, *The Hidden History of Earth Expansion*, which is widely available from good bookshops in both Hardback and Paperback editions, as well as a Google eBook.

The *Hidden History of Earth Expansion* presents the personal histories of some of the most well-known researchers into Earth expansion in 14 original essays. In addition to furnishing us with their personal histories, as they strived to explore the seemingly overwhelming evidence for confirmation of Earth expansion, the authors' highlight areas where further research is required.

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