

Open Science Academy

Peter Jakubowski

Atlantis of the Neanderthals

Colin Wilson corrected

All religions, arts, and sciences are branches of the same tree.

Albert Einstein

Open Science Academy

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by Peter Jakubowski

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For my grand-grand-grandparents in Atlantis

*Thank You for the ancient knowledge You taught me then
and I am recollecting only slowly now*

*To admire somebody is a way to fall in love with that
person,
but to admire Nature is a way to fall in love with all
Humanity.*

P.J.

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Prologue

I am dedicated to physics because I admire Nature. I consider Nature admirable because it deserves the highest esteem. Why? Because it is organized (or self-organized) after some excellent plan. As long as we do not understand this plan, the natural phenomena would seem to be marvelous or even miraculous. However, as soon as we begin to comprehend, to grasp the meaning of our observations, we only see a wonderful sequence of happenings. The effective cause of any natural happening is always only an outcome of some previous subtle reasons. The chain of the reasons and the results seems to be going continuously from the deepest past to the present and even to the distant future.

Because not all miraculous things can be scientifically considered or explained, we also have to use our religion in order to frame these miracles in our head or to express them in words. For example, we cannot scientifically define who, when, and why could have decided, how Nature should be. We even have to admit that we cannot be sure, whether or not this question has any scientific sense. Therefore, in my first description of Nature, for the reader having religious objections to study scientific origin of our life on Earth, I have proposed a kind of cosmic carousel of life. According to this simple idea, we can accept that our ancestors were put on this “divine” carousel some time in the past and our descendants will live on it until the end of time. At present, it does not matter, whether we believe that our first ancestors were bacteria, apes or our grand-grand-grandparents, the Neanderthals. It is also inconsequential, whether the end of our time on that carousel will come in a milliard years,

in a thousand years, or just tomorrow. For the remaining readers it should be, of course, evident, that such a “divine” carousel of life is an equivalent of our scientifically defined Cosmic Hierarchy of the Solar System. However, this scientific version of the cosmic carousel of life is the same miraculous object of Nature as its religious counterpart. In fact, its existence is the single miracle I see, when I am considering Nature. All natural phenomena occurring inside the Cosmic Hierarchy seems to be perfectly deterministic.

We try to describe all those deterministic phenomena with our physics. Someone not involved in science could perhaps think that our physics is also a kind of religion, a layman's faith. However, it is not, and it is important to understand this fact before one is going to read this book. The only non-scientific aspect of physics is our belief that our physical description of Nature is a relatively correct image of Nature herself. The validity of this description cannot be proven directly in any way. We have to believe that it works. Nevertheless, physics can be verified experimentally precise. Each statement of physics has to be provable according to the corresponding definitions. If some statements in a specific version of physics are not provable by experiment, this does not mean that Nature is non-deterministic or chaotic but that this specific physical description is imperfect and must be improved.

Precisely for this reason I was forced to develop Unified Physics. The immensely growing amount of observed facts about the origin of our species on Earth has become incompatible, and even contradictory to the commonly used scientific paradigm of the 20th century. Many scientific and cultural leaders had recognized the urgent

necessity to change this paradigm to a new, holistic one, joining our understanding of the inanimate matter of the Cosmic Hierarchy and the animated matter of all living organisms with the understanding of our spiritual and mental aspects of life.

Colin Wilson was one of those forerunners of our global knowledge. One of his recent books entitled: “*Atlantis and the Kingdom of the Neanderthals; 100,000 Years of Lost History*” (Bear & Company, Rochester, Vermont, 2006; ISBN: 978-159143059-9), will be our guide throughout this book.

Introduction

I would like to tell you a true story which does not happen to everyone and above all not daily, and so it could be of interest for many people, because we all are taking a part in the story. One can experience such a happening only once in their life, because it lasts lifelong. In my case it lasted nearly forty years, until I finally felt myself ready to sit down and write about the most important steps in the story development, for this and for future generations.

Still a few years ago, when I wanted to tell something from my story to one of my friends, he asked me with a perceptible terror in his voice: „Who is interested in physics? Nobody. The people want to read rather something like crime novels or gossip. These are the interesting stories.“ Then, I agreed with him and remained silent about the story for long time.

Now, however, I am already retired and my perspective has changed. For a while, I thought that now I actually do not need to explain something about my physics at all, because my main life project, the unified description of Nature, has been accomplished (*the new one, the study of our global consciousness has been launched in 2010*). The discovery process is closed now. The new knowledge has been published and cannot be eliminated any more from the world. And what is still more satisfying, the consequences of the existence of the „second star“ (the *Andrea-Star*) in our Solar System are perceptible everywhere, in our Cosmic Hierarchy extending into the far Universe, in our Solar System with Venus in its center of mass, on the Earth with her global cooling becoming stronger from year to year, and so too in our own bodies

with their bioresonances ruled by the same Cosmic Hierarchy of our Sun. The consequences of the Unified Physics applied to our own life are even obvious to a layman, if one only knows, what one must pay attention to.

Although these consequences alone are already very interesting, though often even amusing or almost unbelievable, the story which I am going to tell in this book is rather a mix of the consequences with the description of my personal way to the discovery and with my reflexions after it was done. But you have nothing to fear. Although I have to use the word “physics” now and again, you can read the book without any preparation, even if you have hated the traditional physics at school, like most youngsters still do today.

I am going to tell you the story in a form of a comparison between my own knowledge - being based on the new paradigm in science - with the best knowledge I have ever read about in a single book, that still rested on the “old” paradigm of the 20th century. Although it may not be quite true in the case of the author of this chosen book. This author, Colin Wilson (1931-2013; he died just a few weeks ago), a writer, critic and philosopher, was already a very innovative researcher, far ahead in relation to the mainstream science. Our chosen book here is one of his recent books, maybe the one most challenging the adherents of the old paradigm. It is entitled: “*Atlantis and the Kingdom of the Neanderthals; 100,000 Years of Lost History*” (Bear & Company, Rochester, Vermont, 2006; ISBN: 978-159143059-9). The title alone is already a provocation for the traditionally thinking scientists. Atlantis, this almost mythological phantom of the platonic

literature, should become a serious research object? And its connection to the long ago extinct, primitive Neanderthals; what should this mean? Maybe a joke?

Nothing like that. Colin Wilson is very serious in his book, and very optimistic that he is on the right path to very intriguing solution of the Atlantis mystery. In the “The Telegraph” obituary (<http://www.telegraph.co.uk/news/obituaries/culture-obituaries/books-obituaries/10504201/Colin-Wilson-obituary.html>) we read among others:

“He was regularly criticised for making sweeping generalisations and for his habit of quoting from memory without reference to his sources, but he remained unshakeably convinced of his own talent. Most criticism is based purely on incomprehension - he said. 'I have long accepted that the chief difficulty with my work is that it covers too wide a field. Even sympathetic readers can't see the wood for the trees.' ... Colin was a melancholic youth who toyed with the idea of suicide on more than one occasion. In 1947 he wrote in his diary that he had almost taken cyanide in the school lab, but that he had had 'a moment of vision' and decided 'to devote all free time to the pursuit of excellence'. He left his job at the school and went to work in the Leicester office of the Collector of Taxes. ... Influenced by the work of George Bernard Shaw, he was resolved to become a writer.”

Nobody is able to copy a life of someone else, in order to repeat this person's greatest achievements, for example. Nevertheless, one is able to learn from the person's history and to use the constructive experiences in any similar situation in one's own life. Probably Colin Wilson's very

early interest in science (“I was reading Einstein by the age of 12”) in combination with his fascination with George Bernard Shaw has motivated him to become an author of more than 100 books. I remember very well reading at least one of them (namely “*From Atlantis to the Sphinx*”; Fromm Int., 1997), and was positively excited with his “wide field” of interest.

At the end of 2013, I have finally decided to write my most challenging book: “*Our illusory physics; The whole of modern physics is just an illusion*”. So I have “uncoupled” myself from the outside world, far away from my daily life, going for three months to Mississauga (near Toronto) in Canada, because I wanted to collect my ideas without any external influence. I have turned my news consumption down almost to zero and it so happened that I did not know about Wilson's death till the day of writing this introduction.

Nevertheless, as I was ready with my book, I wanted to compare my own ideas with those of some other authors. My first choice was the publishing house named “Inner Traditions”, because the latest book by Ervin Laszlo (“*The Self-Actualizing Cosmos; The Akasha Revolution in Science*”; www.ervinlaszlo.com), including my own contribution, should be published in February 2014 exactly by this publisher (situated, oddly enough, in Rochester, Vermont and in ... Toronto). As I took a look inside the spring-summer-2014 catalog of this publisher, almost the first position was just the above cited book by Colin Wilson about the Atlantis and the Neanderthals. It was obvious for me to choose this reference at first. I have obtained a copy of the book on January 22nd, 2014, and immediately started to read it. The book is fascinating, full

of new interesting information. However, I also quickly knew, I have to correct it as soon as possible, because Wilson's information in many important points is still based upon the old scientific paradigm.

Just three days later I was sitting and collecting the material for the new book and searching for a biography of Colin Wilson. And I become aware of his death just seven weeks ago. So I can only say, thank you Colin very much for your book. I will try to do my best for your readers, to bring them across the paradigms boundary into the science of the 21st century (you do not need my help any more; now you know everything from “the first hand”).

And Colin Wilson gave also support to my own research. To die at the beginning of 21st century at the age 82 confirms the Cosmic Hierarchy “statistical norm” for a masculine *Homo Sapiens Sapiens* “modernus”, what can be seen, for example, in point “The Cosmic Timescale” of *Naturics*-Website.

The principal purpose of the present book is to follow the most important idea of the Colin Wilson's book. It is the connection of the human species living on Earth in the times of Atlantis with the members of the genus of the Neanderthals; however, expanding and correcting the details in those points, where the new way of thinking is necessary, in order to make the whole idea compatible with observations and with the best available theory. The second purpose is to allow you, the reader, to feel for yourself the extraordinary fascination with the unified scientific description of the world around us.

Would the story be useful for you? I hope so. I was never

possessed by the idea to be better than the other scientists. But I feverishly wanted to get closer to Nature, with more understanding than all my teachers were able to teach me. So, of course, I was forced to develop my own physics, in order to enter into the secrets of Nature deeper than anyone ever did.

Independently of your actual profession, you have had had probably several times an "aha-experience", if you have suddenly understood an apparently complicated thing. Try to remember such an experience from your own life and remember the feeling of the luck or at least the excitement which surely was connected with this new experience. Now, imagine that you can experience such a strong feeling much more frequently, practically any time if you approach Nature with our new understanding. Then you will also understand me, why I cannot hold back my enthusiasm for myself alone. Therefore I have sat down to write this book. Take some free time to read it. Perhaps you too will experience the same enthusiasm and delight.

1

Our vibrating Earth

Colin Wilson closes the Preface of his book “*Atlantis and the Kingdom of the Neanderthals; 100,000 Years of Lost History*”, with the following sentence:

“It is clear that our ancestors knew far more than we do today.”

This single sentence contains, actually, the whole idea of the book. The rest of the book merely delivers the arguments proving the sentence being true. Unfortunately, Colin Wilson did not know the Unified Physics. It was even not yet completely posted on Internet before he wrote his book. And also the new scientific paradigm has not been widely discussed around the world till 2006. Therefore, the Wilson's book was partly based on sometimes unacceptable assumptions of the traditional vision of the Universe. Let us go through his book chapter after chapter and improve, and, if necessary, extend the information being presented there.

In Chapter One (“*Hapgood's unsolved mystery*”) we read about:

“ ... a suggestion that has been made by Charles Hapgood, a New England professor of history, who declared that the earth's crust is subject to periodic shifts that can cause the continents to change their

positions. His apparently unlikely theory gained the support of Albert Einstein, who just before he died in 1955, had written a foreword to Hapgood's book "*Earth's Shifting Crust*", which was published in 1958."

When Colin Wilson has started to continue the Hapgood's idea (Hapgood himself was already dead shortly before), he just read the Hapgood's book. Wilson writes about his impressions:

"Hapgood began the book with the question: is there any proof that the Earth's crust has 'slipped'? His answer was: yes. The Earth's crust is full of iron ore. And since the Earth is a magnet, all the molecules of iron oxide point in the same direction, like tiny arrows. And since they all point toward the North Pole, it is quite easy to see if the position of the pole has altered since the ore solidified, for in that case, the iron oxide molecules (the 'arrows') will be pointing in the wrong direction. And that is precisely what has happened. The 'arrows' in a great deal of the Earth's crust are pointing too far south, which shows that the pole must have since moved north. *(Please bear in mind the following important remark by the author of the present book, further on abbreviated only by his initials P.J.: in the last sentence, "... the pole must have since moved north", the temporal reference "since" does mean "since the ore solidified", and it has happened surely much earlier than ten or even twenty thousand years ago, as Hapgood, and Wilson too, are going to consider in what follows.)* However, Hapgood explained, the pole itself had stayed where it was; it was the Earth's crust above

it that had slipped south, a little like a schoolboy's cap being pulled down over his eyes. It had slipped south by about two thousand miles. According to Hapgood, Hudson Bay used to be right above the North Pole. Then the crust slipped, and Hudson Bay – together with Canada and North America – moved two thousand miles south.

The various indicators revealed that the great slippage had occurred about twelve thousand years ago, at the end of the last Ice Age. ...

Although Hapgood had never dared to admit this, he had experienced a lifelong fascination with Atlantis, which was why he began to study the question: what kind of catastrophe could destroy a continent 'in day and a night'?"

And just a half page below, we read further:

"But Hapgood pressed on. When he discovered the iron-ore evidence, proving that Earth's crust had slipped, he felt he had found the basic solution. The Atlantis catastrophe had occurred because the Earth's crust had moved, creating roughly the same effect as a movement of the San Andreas fault, but one of a thousand times greater force. Hapgood had no idea why the crust had slipped (perhaps it was the result of the impact of a giant meteor); all he knew was that it had.

Considering all this, Flem-Ath (*a coauthor of the Wilson's planed book about Atlantis; P.J.*) felt that to include this material in the book we were writing, some evidence was needed to convince nongeologists. He stumbled on this by accident when his wife brought home a library book called "Archaeoastronomy in Pre-Columbian America, by

Dr. Anthony Aveni. In the book, Flem-Ath found a vital clue: that no fewer than fifty different religious site in Mexico seem to be misaligned from true north.

For example, Mexico's most famous religious site is Teotihuacan, formerly called Tenochtitlan, a city that was once as large as ancient Rome. This site includes a long avenue running from north to south, known as the Way of the Dead. But for some odd reason, it does not run precisely from north to south. It is 15.5 degrees off true north. When Flem-Ath learned that forty-nine additional sacred sites were similarly misaligned, he began to feel that he was on to something.

He took a tape measure and tried extending the Way of the Dead in a straight line. The line passed through Hudson Bay.

What this appeared to mean was that when Teotihuacan was first built, the Way of the Dead pointed due north. Then the Earth's crust had slipped, taking Teotihuacan and the Way of the Dead with it, but twisting it sideways slightly as it did so, so that it now pointed 15.5 degrees away from true north.

The same thing had apparently happened to forty-nine other religious sites, which seemed to rule out the possibility that the architect of Teotihuacan was drunk when he designed the site. The implications of his insight are hair-raising. If true, it means that Teotihuacan must have been built before the crust's great shift of 10,000 BC. Yet according to historians, no human civilization existed as early as that. Besides, most archaeologists still believe that Teotihuacan was

built much more recently. Some suggest 4000 BC, while a few even think it was built as recently as 150 BC.”

Both the ideas by Hapgood and Flem-Ath are not only interesting and worth further studying, but they are also important as a support of the main thesis of Wilson's book. The problem with them, however, is typical for all traditionally based explanations. Although the very idea of the shifting Earth's crust is revolutionary (*remember, Hapgood's book was published in 1958*), it is not defined globally enough. According to our new paradigm of the Unified Physics, we always have to think globally about any natural phenomenon, as being possible to occur under possibly many (thinkable) circumstances. If we are convinced that the Earth's crust was moving 10,000 years ago, during the end phase of a specific terrestrial “era” (Ice Age), we have to accept as well, it also was moving in any other similar situation in the past, during the whole Earth's history since its very beginning. Only when we succeed to demonstrate such a frequent repetition of the effect, we could be sure, the idea is a good candidate for the explanation of the temporary “local” observation concerning the very small part of the Earth's life time around 10,000 years ago.

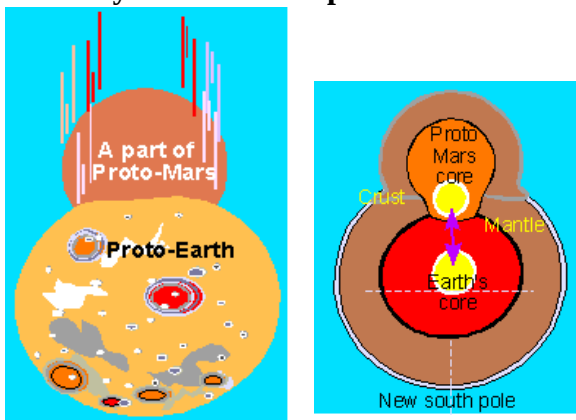
Similarly the idea by Flem-Ath should be expanded over the whole Earth's surface and also over all civilizations. As I know, Flem-Ath is still working on such a generalization. Unfortunately, neither Hapgood nor Wilson will continue their work. Therefore, I am going to do this task for them. In order to make the idea of the shifting Earth's crust to become acceptable also from the new-paradigm point of view, I have to introduce here my own model of the

vibrating Earth, originally published in my first book “*The cosmic carousel of life*” in 2003, although the model idea is yet a decade older.

Our model of the vibrating Earth

The idea behind my model of the vibrating Earth is a relatively simple one. One of the last phases of the renewing process of the Solar System 3507 million years ago was a collision of the Proto-Earth with the rest of the Proto-Mars. The collision direction became the common rotation axis for the renewed Earth and Mars. They remain almost parallel since then till today, being inclined to the ecliptic (*the Earth's orbit plane*) by 23.5° for Earth and 25.2° for Mars. In the original version of the model I have chosen one of two possible configurations of the collision event. I have supposed that the Proto-Mars did come from above of the Proto-Earth, as shown on the diagrams below. Consequently, the collision center, the touching point between the both planets, would become the North-Pole of the new Earth, creating the terrestrial South Pole on its antipode.

The initially considered impact from the north



Further, I had to assume that the southern part of the present Mars evidently should be its more damaged hemisphere and his northern part should be relatively unchanged due to the collision. I had just had to wait for a confirmation of this supposition.

But two years after Colin Wilson had published his book we are discussing here, NASA had finally decided to publish her own, almost 40 years old discovery (from 1970's), confirming my main assumption, but presenting a proof that it is the northern part of Mars, which was damaged during a unidentified (traditionally seeing, of course) huge collision. Nevertheless, all other properties of the collision being seen from my point of view became perfectly confirmed.

On June 27, 2008, we could read on internet the following article: (posted by Casey Kazan at http://www.dailygalaxy.com/my_weblog/2008/06/why-does-mars-h.html)
“*Mars Discovery; The Largest Crater in the Solar System Sparks Intense Scientific Interest*”. We could read there what follows.

“New analysis of the Red Planet's terrain using NASA's Mars Reconnaissance Orbiter and Global Surveyor spacecraft observations reveals what appears to be by far the largest impact crater ever found in the solar system.

NASA's Viking orbiters observed in the 1970s that the bottom two-thirds of Mars was about two miles higher in altitude than its top third. Planetary scientists have since bandied about two hypotheses to explain the dichotomy: either some odd internal dynamics of Mars generated a thicker planetary crust in the south, or the northern surface was

blown away by a mega-meteor impact.

NASA's Mars Reconnaissance Orbiter and Mars Global Surveyor have provided detailed information about the elevations and gravity of the Red Planet's northern and southern hemispheres. A new study using this information may solve one of the biggest remaining mysteries in the solar system: Why does Mars have two strikingly different kinds of terrain in its northern and southern hemispheres? The huge crater is creating intense scientific interest.

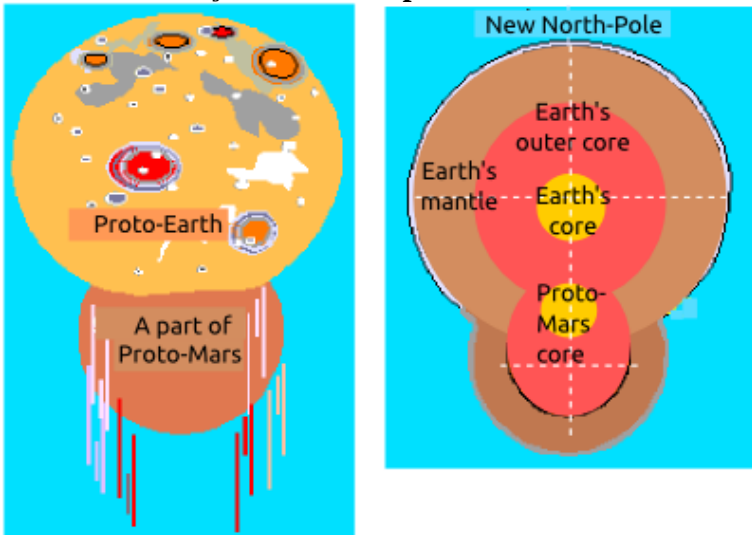
The mystery of the two-faced nature of Mars has perplexed scientists since the first comprehensive images of the surface were beamed home by NASA spacecraft in the 1970s. A giant northern basin that covers about 40 percent of Mars' surface, sometimes called the Borealis basin, is the remains of a colossal impact early in the solar system's formation, the new analysis suggests. ... When the solar system was just maturing 4 billion years ago, big objects often smashed into one another. The formation of the Earth's Moon is attributed to a giant impact on the Earth by a Mars-sized body.

'The impact would have to be big enough to blast the crust off half of the planet, but not so big that it melts everything. We showed that you really can form the dichotomy that way,' said Francis Nimmo of the University of California, Santa Cruz."

So all what I had to change in my model of the vibrating Earth is the collision direction itself. The impacting Proto-Mars is coming from below the Proto-Earth. Thus, the real collision that had had to happen 3507 million years ago should be understood as shown in the modified

picture below.

The really observed impact from the south

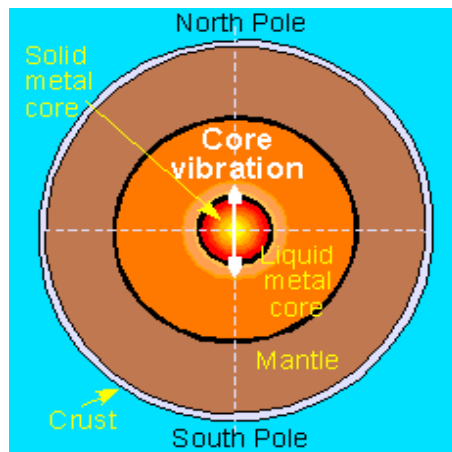


During the collision, a relatively large part of the Proto-Mars' core has joined the Earth's core. This is the reason why the present Mars has the mass density much lower than that of the present Earth, almost as low as the density of our Moon.

Let us remember that the same collision is also responsible for the Moon formation and for the “start-shot” to the evolution of all higher forms of life on Earth. It is because by pushing the Earth-Moon system towards the Sun-Venus center of the whole Solar System the collision has forced a continuous rise of the Earth's surface temperature, and the rising temperatures have continuously changed the climatic zones. All living organisms had had to adapt themselves to the steadily changing environmental and climatic conditions.

But the most interesting consequence for our model is the conclusion that the collision also has to be understood as a kind of a musical accord for the entire Earth's interior. The heavy, metallic Earth's core started to swing along the Earth's rotation axis in relation to the Earth mantle and the Earth's crust as well. This swing also produces the reversal of the Earth's magnetic field, when the core is crossing the equator plane of the rotating Earth. The energy of the vibrations of the Earth's material are diminishing since the collision. However, the vibration is still active today.

Vibration of the inner material of Earth after the collision



The consequence decisive for our present discussion of the idea of Hapgood and Wilson is the continuous drift of all continents on the Earth's surface. Although evidently slowing down, the plate tectonics is still well observable today. The very recent phase of this shift is exactly the “slipping” of the Earth's crust looked for by Wilson and Flem-Ath, as described in Wilson's book. However, the

question to be answered is about the speed of the drift of the tectonic plates (*the parts of the entire Earth's crust*), and particularly of the continents. As we calculate in *Appendix 1*, the drift amplitude of thousands of kilometers can be observed indeed, but not in a few thousands of years but in a few millions of years. Even a very probable acceleration of the drift during each cosmic quantum jump (for a definition compare *Naturics*-website) seems to be not high enough for to increase the speed of the drift by a factor of thousand times.

As we see, our uniform treatment of the whole geophysics allows us to produce a model of the vibrating Earth, in which the whole material of the Earth, from the uppermost lithosphere, down to the solid core, is involved in this vibration. Our model of the vibrating Earth adopts and widens the Wegener's theory of the plate tectonics. Let us make ourselves a little more familiar with the traditional point of view on the plate tectonics. We quote shortly three traditionally based definitions from „*The Chronicle of the Earth*” (*in German only*) by Felix R. Paturi (by Chronik Verlag, Dortmund 1991). To the problematic exploration of the Precambrian, we read there (*in my own translation from German*):

“The Precambrian comprises about three quarters of the entire Earth's history. Into this gigantic time-period falls both the formation of the first continents as well as the formation of single-celled, vegetable and animal life. But this section of the development of our planet lying in distant antiquity can be only very heavily explored, and the exploration is in many cases not possible at all. To the one side, the early Earth's crust was already forced to go through multiple conversions during

the Precambrian, to the other side also later times have of course changed or destroyed the witnesses of that era.”

To the definition of the cratons, we read:

“With this change of the face of the solid Earth's crust originate relatively stable clods in the mountain-regions. They form the kernels of the later continents. New stiffened parts are always stored at them through further formations of the mountains. Geologists name such continental clods or shields as cratons.”

To the identification of the proto-cratons, we read:

“During the Precambrian originate several proto-cratons, from which we can still localize five on the basis of their remains today: the Canadian shield known also as Laurentia; the Baltic-Russian shield, also called Fennosarmatia, that stretches itself over almost whole Scandinavia and reaches in Europe to the Ural; the Siberian shield Angaria; the Chinese shield Sinia; and on the south hemisphere the mammoth-shield Gondwana, in which big parts of the later continents and subcontinents are united - South America, Africa, India, Australia and the Antarctica.”

The traditionally conservative geophysics says nothing about how and why these proto-cratons should distribute themselves on the Earth in the present way and not differently. We adopt the upper quotations without further commentary as the background information to our model. The discoverer of the plate tectonics, Alfred Wegener, was finally rehabilitated decade after his death. However, we

fruitlessly seek the Wegener's name in the above quoted „*The Chronicle of the Earth*”. I don't want to participate in the questionable, pseudo-scientific disputes here. We rather devote our time instead back to the vibrating Earth during the many millions of years after the formation of our Moon.

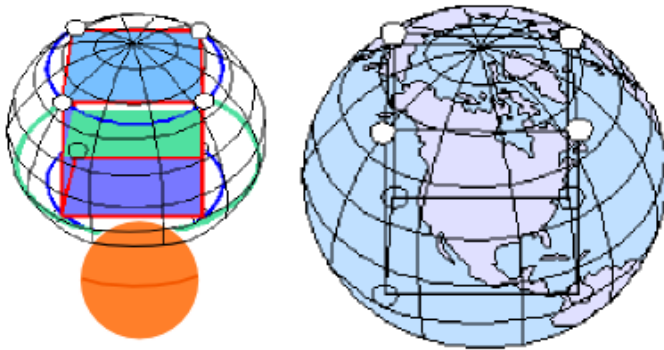
Let's summarize what we have already found out about the collision so important for us. We know that in the „hour-zero”, 3.506673 milliard years ago, the largest remaining part of the Proto-Mars had collided with the Proto-Earth. A result of this event was the formation of the Moon. Another result of the collision was the stimulation of the solid core of the Earth to the vibration, relatively to the liquid, outer part of the core and to the viscous mantle above the core. The two bodies, of the Proto-Earth and of the „aggressor”, formed for some short time during the collision a dynamically bound unit. The contact was long enough, however, for the successful transfer of the original rotation velocity and the inclination of the rotation axis of the „aggressor” to the Earth. As you maybe has read in my previous books (or on my websites), the „aggressor” itself had obtained its rotation from Saturn. In that way, the place of the impact became the South-Pole of the new rotation axis of the Earth. On the antipode of the impact place originated the new North-Pole of this axis of course.

One can represent the resultant own-vibration of the Earth's material by means of an imaginary cube within the spherical globe. The corners of the cube are virtually anchored at the surface of the globe and distributed symmetrically about the North-South rotation-axis and about the equator. These points cannot leave the Earth's surface but only glide on it back and forth. Why do we

speaking particularly of a cube in the context with the own-vibrations of the almost spherical Earth? Well, according to my whole experience as solid-state physicist, it is the fundamental form of a vibration, which one can generate in an elastic ball with a single hit of a drumstick. One considers with it an expansion of the fundamental vibration of a guitar-string and of a flat membrane of a drum on the three-dimensional ball.

You probably notice already, what is our aim. We assume namely that the corners of the vibration cube are identical with the proto-cratons of the Earth's crust. The vibration of the material of the Earth has of course been initiated immediately after the collision. However, the cratons of the solid Earth's crust have consolidated themselves and enriched with granite-rock first in the course of the time after the collision, as the Earth has stopped boiling. The proto-cratons have always remained on the Earth's surface.

Ideal positions of the corners of the vibration cube



According to our model, it is clear that there is no reason to suspect that the cratons should have developed in the mountainous regions. The opposite is true. One should see

the exact positions of the ancient kernels of the land masses in those places, where there are no mountains on the clods of the proto-cratons. First the further advancing land masses, which have united themselves with the proto-cratons, have lifted the more or less circular mountain ranges around the corners of our vibration cube.

The proto-cratons drift thus on the surface of the Earth since the collision. In the ideal case, without any further cosmic impacts, they should drift symmetrically towards the rotation axis of the Earth, a half of the vibration period long, and outwards, from the axis away, over the other half of the vibration period. The four northern cratons swing in the counter-phase to the four southern cratons.

There are however possible numerous disturbances of the ideal vibration, like

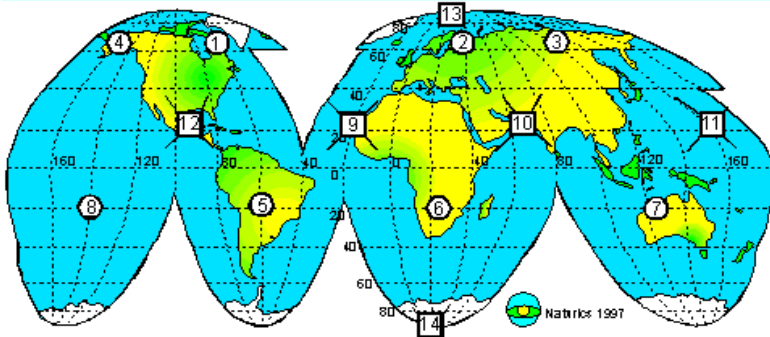
- the numerous impacts of the level 8 of the Cosmic Hierarchy, which occur mostly from the side to the vibration axis;
- the still much more numerous impacts of the level 7 and 6 of the Cosmic Hierarchy;
- the periodically changing distribution of the Earth's mass because of the motion of the Moon around the Earth;
- the differentiated temperatures of the Earth's surface in various geological times, and through it the differentiated resistance against the movement of the tectonic plates.

All such disturbances have contributed to different deviations of the actual positions of the continents from their ideal pattern during various geological periods. However, the characteristics of this cubic pattern have always remained the same as we have described it above.

The driving energy of the plate tectonics permanently decreases during the three and a half milliard years since the „hour-zero“. Would the whole vibration energy already be used until today however - because of the friction and the radiation into the cosmos - then, the ideally symmetrical vibration cube would have placed its eight corners in the regular distances on the Earth's surface. Because the vibration still continues today, the current positions of the proto-cratons are still ordered a little irregularly.

The real positions of the proto-cratons on the Earth

The present distribution of the vibrational cube corners (cratons) and faces



The current positions of the eight proto-cratons are as follows (*the numbering has no deeper meaning, it is just a help to our identification*):

- 1: Northern Canada (Eastern Baffin; 65N 65W)
- 2: Karelia (White Sea; 65N 35E)
- 3: Central Siberia (Viljujsk; 65N 120E)
- 4: Central Alaska (65N 150W)
- 5: Western Brazil (Pantanal; 19S 57W)
- 6: Northern Botswana (Okavango Swamp; 20S 24E)
- 7: Western Australia (Canning Basin; 21S 124E)
- 8: Southern Pacific (French Polynesia; 20S 140W).

Also the centers of the six faces of the vibration cube play a geologically important role:

9: Atlantic at West-Sahara (22N 20W)

10: Arabian Sea (22N 65E)

11: Northwest Pacific Basin (22N 160E)

12: Mexico Basin (22N 95W)

13: Arctic Ocean (North Pole)

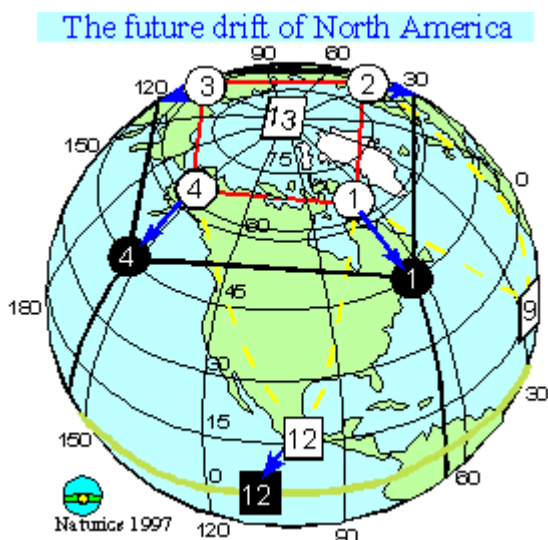
14: Antarctica (South Pole).

The plate tectonics has become already clearly slower in the recent 3507 million years. Nevertheless, the solid core of the material of the Earth still swings far from its stipulated rest-position in the center of the Earth. Today, it lies to the south of the center. However, it already returns to the north again. The northern proto-cratons drifts through it apart and the southern move from the equator away. The land between the northern proto-cratons is being lifted, while the southern proto-cratons move more tightly together and nearer to the South Pole. While large land masses rise around Scandinavia, North-Canada and North-Siberia from the oceans high, some of the southern land areas already sink slowly in the water, as the Tierra del Fuego or Antarctica. The seemingly dramatic message from March 2002 about an outsized ice plate, which has separated itself between Antarctica and the Tierra del Fuego, confirms these movements of the Earth's crust very impressively. The ice cannot sink of course in the ocean water together with the sinking land.

The centers of the side-faces of the vibration cube move at the present also towards the equator, where is their regular position. The virtual lines connecting these centers with in each case four proto-cratons, the corners of the vibration cube, are distinctly visible on the Earth's surface

everywhere. The continents break along these lines apart (like along the Rift Valley in Eastern Africa), if the adjacent proto-cratons have separated too far of each other. And reversely, the continents are pressed together (like along the Rocky Mountains) if the proto-cratons have come too near to each other.

Owing to the model of the vibrating Earth, we are even able to foresee the future movements of the tectonic plates. A more exact view of the North-American continent says us for example that the proto-cratons in Alaska and North-Canada will drift towards equator; their distance of each other will be almost doubled. The whole continent will therefore move into warmer climate-zone. However, it will probably become split along the line between the Hudson Bay and the Gulf of Mexico already in several thousands of years.



What is not less important to note already now, when

looking at the above picture, we can easily imagine to ourselves what should happen to the northern cratons if we shift the time several thousand years back, into, say, Stony Age of the era of the Neanderthals. Their motions should be opposite to the future movements defined by the blue arrows. The result is perplexing indeed. Both Northern Canada and Northern Europe approach Greenland, and also Alaska approaches Asia. This means that during the life time of the recent species of the Genus *Homo Sapiens Neanderthalensis* (living between 40,000 and 6,800 years ago), there had indeed existed natural land masses joining all northern continents. The Neanderthals could have been very good seafarers, as Hapgood and Wilson assumed, however, they had also the open land bridges to move on foot around the world.

Going ahead into the topic of the next Chapter, let us cite here from the Colin Wilson's book an example of the lost ancient knowledge documenting the above assumption of the continuous land bridges around the North Pole existing until not so long ago. On page 98 of this book, we read:

“Hapgood's map from *Maps of the Ancient Sea Kings*”, and his account of the map of Hadji Ahmad, is also relevant to this discussion.

As we look at this map, which appeared in Turkey in 1559, we note that the drawing of Europe is not particularly accurate. The Mediterranean, for example, is entirely the wrong shape, and it is not clear whether the body of water running south from it is the Red Sea or the Persian Gulf. According to Hapgood, the coast of Africa does not compare in accuracy with the Piri Reis map of nearly half a century earlier.

On the other hand, the American continent is so

accurate that we could easily mistake it for a modern map. It seems unbelievable that Columbus had arrived a mere 67 years earlier. How had the mapmaker gained such accurate knowledge, when the continent was still mostly a vast wilderness? Above all, how had the Pacific coast been drawn with such precision? Pizarro and his conquistadores had landed on the coast of Peru as recently as 1532, a mere 27 years earlier. There was simply no time for this knowledge of detail to have been developed.

There can be only one solution. The European part of the map must have been based on one of the old, inaccurate maps, probably Ptolemy. But the American part must have been based on an ancient portolan made by someone who knew both coasts from personal experience.

This might, of course, have been ancient Egyptians in search of cocaine and tobacco. But there is evidence that whoever made the portolan came far earlier than Rameses.

For there is another oddity about this Hadji Ahmad map. Looking down on the North Pole, as it were, it shows Asia and Alaska joined together. It does not, admittedly, show Beringia, the land bridge across the Bering Strait, which was submerged by the seas at the end of the last Ice Age. But if the two continents had been separate, as they are today, it would have been easy enough to indicate this with a narrow gap between them. As it is, they are simply joined, as if by a land bridge a thousand miles wide.

Hapgood quotes an Oxford scientist, Derek S. Allen, who pointed out that what is now the island

of Novya Zemlya is shown as being joined to the Siberian coast, and that what are now the Siberian Islands are shown as an area of dry land.

In other words, the mapmaker showed the world as it was about 14,000 years ago.”

As we see, our model of the vibrating Earth allows us to reconstruct these old land bridges.

The „lacking” continent

Now, we want to answer another inevitable question of each aware reader. It is the question after the „lacking” continent on the Earth’s globe, with the seemingly absent eighth proto-craton in the Southern Pacific (*compare the last but one picture*).

It was really exciting, but at the beginning not quite easy, to believe in the idea of the vibrating Earth. Especially problematically was the situation of the vibration cube, as long as no continent was still to be suspected in the Southern Pacific. A proto-craton should look like a land-clod that should serve as the ancient kernel of a continent. It was clear to me that the sea level was not constant in the course of the geologic time, and a whole continent would have found place under the present-day Pacific. It was however impossible, that it could still remain unrecognized, particularly since the observation of the Earth’s surface from the space. It had to be hidden something more uncommon behind the „lacking” continent.

First little by little, as the idea of the Cosmic Hierarchy of

the Solar System has received more and more color, also a first hint came to the solution of this puzzle. In contrast to the traditional opinion of the theory of the evolution of life, the future ocean-basins of the Earth had remained quite dry over more than 2 milliard years (after the collision leading to the formation of the Moon). With exceptions of the active volcanic regions, they were covered with thick ice, because the average distance of the Earth to the Sun was then one third bigger than today, as we have shown, for example, in the book "*Our illusory physics*". The supposition, that the ur-continent should protrude as islands from an ur-ocean, with an ideally round Earth's surface, was consequently no longer an obligatory condition to the model of the vibrating Earth.

The order of the seven known proto-cratons at the corners of the vibration cube, gave me another hint. The lacking eighth proto-craton had to lie under the present-day French Polynesia. However, nothing exciting had been observed there. Nevertheless, at a closer inspection, the distances between the neighboring proto-cratons of the southern hemisphere, in West-Brazil, North-Botswana and in West-Australia, are clearly bigger than the corresponding distances on the northern hemisphere. That could mean only one thing. The southern hemisphere is much more swollen up, stretched, as the northern hemisphere. That must mean therefore that, through this strain of the southern ground of the Pacific, the eighth proto-craton could lie under the middle surface of the other proto-cratons.

The idea was therefore there, but still no indications for the „lacking“ continent. And then suddenly, within just a moment, the eighth proto-craton, with its ur-continent, was

traced down exactly there where it should be. In my search after any geological anomalies in South-Pacific, I have encountered an older publication ("The South Pacific Superswell" by Marcia K. McNutt and Karen M. Fishers, in „Geophysical Monograph", American Geophysical Union, Vol. 43, 1987 (pp.25- 34). The first sentence of the summary lay there before my eyes:

“Seafloor depths in a broad area of French Polynesia are 250 to 750 m shallower than lithosphere of the same age in the North Pacific and the North Atlantic.”

There are merely these almost ridiculous 250 to 750 meters of the difference to other places of the Earth's crust. Nevertheless, I immediately knew: the eighth proto-craton existed exactly there, where the model of the vibrating Earth wanted to have it.

This work of McNutt and Fisher describes an elaborate study of this swelling of the oceanic ground. The anomaly in the asthenosphere (that hot and soft layer of the mantle, on which the lithosphere moves) under the French Polynesia is not caused through hotspots. Rather reversely, this anomaly seems to favor the grouping of such hot places there, because it obviously, like each other proto-craton, remains already much longer on this position of the Earth and was never molten again.

Now, I already knew that the thin lithosphere, which slides especially quickly over the swelling away (in the comparison to the neighboring regions), held covered the eighth proto-craton before our eyes until today (forgetting the water of the Pacific for a moment).

The remaining was only a matter of the routine. The search after an additional confirmation of some already known effect is much easier, than the first step without having any clues. That was also the time of the big renewal in the foundation of the geology. The highly dissolving seismic tomography has just opened for the geologists the third dimension - into the depth until to the iron core of the Earth. Numerous further discoveries under our feet have been announced since then.

In summary, we see that the Earth's surface is continuously changing also during the relatively long quiet phases of our existence, between the cosmic jumps of the Cosmic Hierarchy of the Solar System. The tectonic plates of the Earth's surface are dancing to the “music” of the vibration cube, indeed causing a sinking of whole continents in one part of the Earth's surface and emerging of new islands and continents in another part. However, it can never happen 'in day and a night', as Colin Wilson (following Charles Hapgood) had assumed in his book. It had to be some more dramatic and energetic process involved in the sudden destruction of Plato's Atlantis and all other civilizations of the naturally dying very recent species of the Neanderthals all over the world around 6800 years ago. We have already mentioned the natural process being suspected to be able to cause such a drama; it is the cosmic quantum jump of the level 5 of the Cosmic Hierarchy.

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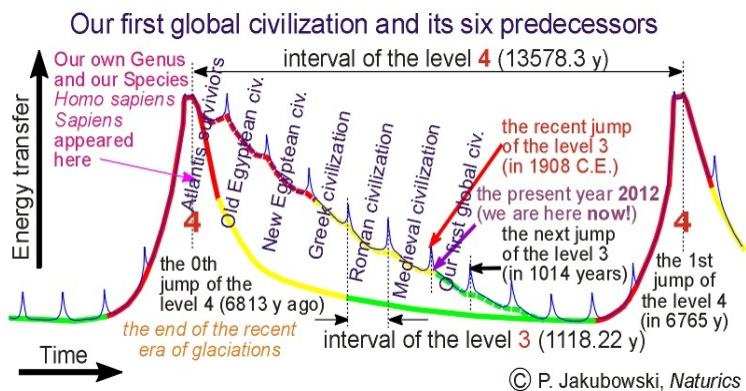
The lost Knowledge

As an introduction to this subject, let me cite Colin Wilson again, what he had learned from Charles Hapgood, a New England professor of history, mentioned here previously. On page 38 of his book, Wilson writes:

“Hapgood then wrote a word of warning: 'When I was a youth I had a plain simple faith in progress. It seemed to me impossible that once man had passed a milestone of progress in one way that he could ever pass the same milestone again the other way. Once the telephone was invented it would stay invented. If past civilizations had faded away, it was just because they had not learned the secret of progress. But Science meant permanent progress, with no going back. ... This process would go on forever. The ancient maps, however, had taught him otherwise, he said; progress can go backwards, ancient knowledge can be forgotten.'”

Colin Wilson has the same meaning, and I am also sure that the ancient knowledge can be forgotten. The last time this surely happened to our ancestors after the recent cosmic “tragedy” (the level-5 cosmic quantum jump) about 6800 years ago. The schematic diagram below shows the series of civilizations we can successively order since then. However, we have to understand that there

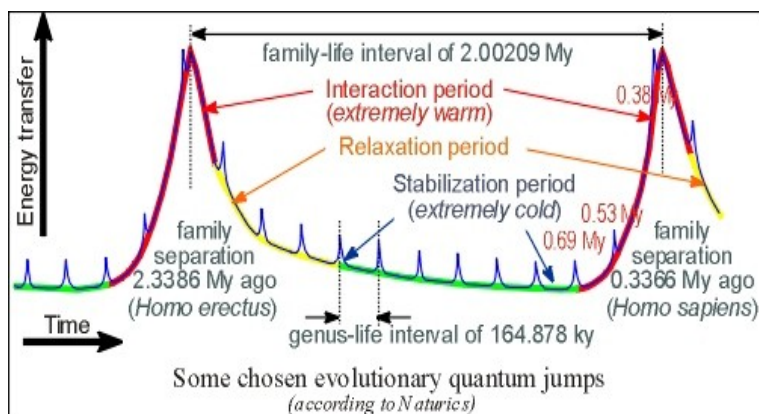
were many different real civilizations of human beings belonging to our Species *Homo Sapiens Sapiens* “modernus” existing in various parts of the World during these six listed in that diagram periods of time. There were civilizations parallel with Old Egypt living in Andes, in China, in Australia, or in Africa, and there were another civilizations living there parallel with any next civilization of the Mediterranean.



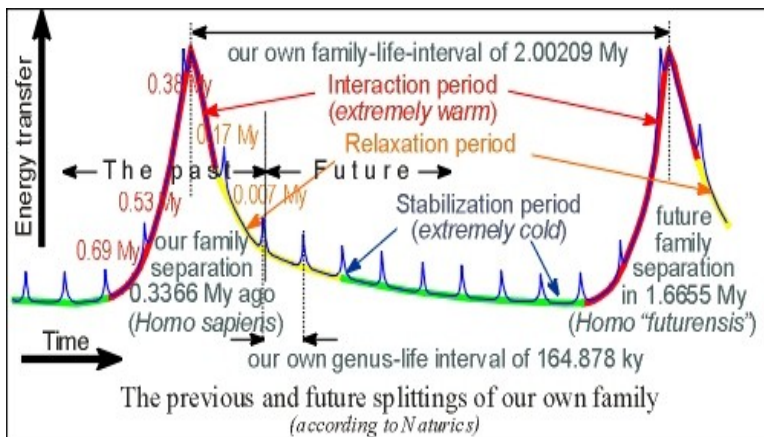
Before we are going to discuss the detailed evidence of the lost knowledge, we have to understand the extraordinary dimension of the cosmic quantum jump about 6800 years ago. Such “catastrophic” events did not happen very often during our evolution from *Homo Erectus* to our present species. However, each time when they did happen, the consequences were simply deadly for at least 90 percent of the contemporary human beings. In order to properly comprehend the seriousness of those breaks in our evolution we also have to learn to differentiate between species, genera and families of our “genealogical tree”.

The following diagram shows the life period of the Family *Homo Erectus*, following on the Family *Australopithecus*, both being the recent “children” of the Order *Primates*. As

we can read at the top and at the bottom of the diagram, a life expectation of a genealogical family is 2.00209 million years, including 12.14 life periods of an individual genus (the number 12.1428 is the scaling factor of the Cosmic Hierarchy of our Solar System; see for example the book “*Our illusory physics*”, or the *Naturics*-website). And each genus becomes “split” into 12.14 consecutive species. This means that the Family *Homo Erectus* has “produced” at least 144 different species belonging to this family. Till now we have excavated some few teeth, skulls and bones, just a small part of the remnants of all those members of the huge family of *Homo Erectus*. The family has died, or more scientifically, became extinct, in a natural way, when its period of the life expectation was over. Very fortunately for us, although this “death” was accompanied by a cosmic quantum jump of the level 6 (meaning about a hundred times more energy involved than in our recent event of the level 5), they had managed to leave enough successors being able to live and further develop by themselves. They gave birth to the very recent family of the Order *Primates*. It is our own Family *Homo Sapiens* (as can be also read out from the diagram below).



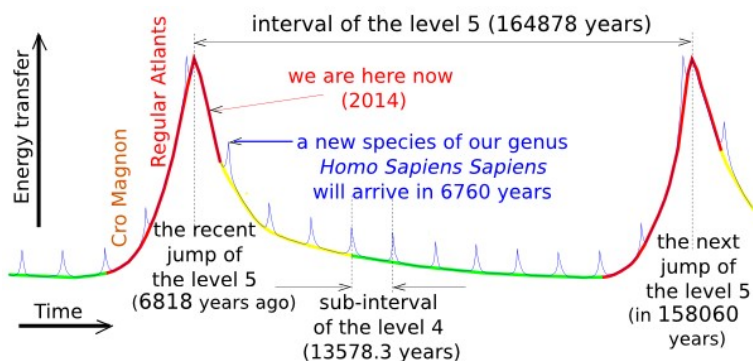
Our own family has also a life expectation of 2.00209 million years, and should be able to “create” 12.14 new genera and over 144 species. However, since it has “started” just 337 thousand years ago, it has finished the creation of just two genera till now. We are the third genus that was “born” exactly 6818 years ago (if we have 2014 CE now).



The first genus of our family, which I tentatively refer to as *Homo Sapiens Heidelbergensis*, was the first genus living still with its after-birth-trauma (living between 337 and 172 thousands of years ago). Very probably due to that main reason, they had not left much of excavation able remnants (artifacts) of their own existence. The most important evidence of their existence, however, was the second genus of our family, the Genus *Homo Sapiens Neanderthalensis*, which could not appear on the Earth's surface without the continuous evolution of the at least twelve species of *Homo Sapiens Heidelbergensis*.

The Genus *Homo Sapiens Neanderthalensis*, as is our own, are the main subject of the present book. This genus,

living between 172 and 6.8 thousand years ago, had also managed to split into 12.14 consecutive species, every one of them living twice as long (13578 years) as our own species till today (between 6800 years ago and now). You have to remember this enormous difference, not only as you read this book, but also for the rest of your life. All those species of the Neanderthals genus had got enough time to develop as far from the last species of the Family *Homo Erectus* as we are today considering to have developed ourselves above the level of the recent species of the Genus *Homo Sapiens Heidelbergensis*. The Neanderthals had sufficient time to develop better and better civilizations, to develop better and better social, cultural, and religious sensitivity and scientific knowledge.



As we can learn from the diagram, not everybody who moves us today, because of his high cultural or scientific achievement, into the amazement, was already a representative of our own species, or even genus. We have to release the very advanced *Cro Magnon* men back to their own highly developed Genus *Homo Sapiens Neanderthalensis*.

As the above diagram suggests, *Cro Magnon* men were

followed by one another species of the Neanderthals, a species I am using to call the *Regular Atlants* (leaving the traditional name *Atlantean* for the members of the specific ancient island-civilization described by Plato), because it was the at highest advanced species of all Neanderthals. They had accumulated the whole civilizing and scientific knowledge of the previous species. They surely were able to found such highly developed civilizations of which the Plato's Atlantis is just an example. They were living all over the world during the recent Ice Age and especially in the early post-glacial phase, when Sahara and such lands as the Australian Outback evidently were flourishing “paradises” during several thousands of years.

If comparing the recent picture with the first picture of this Chapter, we recognize our actual problem, we are going to discuss here. Despite of our present highly arrogant meaning about ourselves, our technology, our science, and maybe not so much - our humanity, we have to acknowledge, as the last diagram makes it visible, that we still belong to the first, highly traumatized species of the Genus *Homo Sapiens Sapiens*, the species we have to name differently from our genus; so I tentatively use the extended name *Homo Sapiens Sapiens “modernus”* for it.

Our first civilization, that of the survivors of all Atlantis civilizations around the world, was (theoretically) in a similar situation as the first “civilization” of *Homo Sapiens Heidelbergensis* during the extinction phase of the Family *Homo Erectus*. The main thoughts of those people (*in both these cases we can speak of human beings, thus we can simply call them people*) was to somehow survive, to give a birth to one's own children and to help them to have their own successors. We shall come back to this

situation in the next Chapter. Here we want to concentrate ourselves on the enormous knowledge of the *Atlants*, which the survivors of the “cataclysm” were only partly able to save across the historical boundary, and the rests of which the next civilizations were loosing from generation to generation of any of the six following civilizations, including our own one existing since around 1905 (*the exact date still being under my investigation*).

On page 8, we read by Colin Wilson:

“Hapgood died in 1989, after being hit by car. But by then others had taken up the quest where he had left off. One of these was a maverick Egyptologist named John Anthony West, who became convinced that the Sphinx had been eroded by rainfall rather than by wind-blown sand. He persuaded an academic geologist, Robert Schoch, to go with him to Egypt to examine the matter more closely and was delighted when Schoch agreed that the Sphinx was water-weathered. Their conclusion was announced at a conference of the Geological Society of America 1993, where they convinced many other geologists of their findings, which suggested that the Sphinx was built in 7000 BC, not 2500, as is usually accepted. (This date, of course, is the same as that suggested by Hapgood for his worldwide maritime civilization.)

By this time, I had also become fascinated by the controversy, my interest sparked by a request by film producer Dino de Laurentis to write a film script about Atlantis. As a result, I met John Anthony West in New York and learned that two other writers were working on the same subject. One was Canadian librarian Rand Flem-Ath (this

was my first introduction to him), who had written an as yet unpublished book, "*When the Sky Fell*", coauthored with his wife, Rose, arguing that Atlantis was Antarctica. The other was Graham Hancock, who was writing a book called "*Fingerprints of the Gods*", whose thesis was that civilization is many thousands of years older than historian believe."

On page 15, we read further:

"The astronomer Alexander Thom had claimed that megalith all over the world were built using the same basic measurement, the megalithic yard. What amazed me was this man's assertion that Neanderthal man had used this same basic measurement, too (as evidenced by the fact that these measurements were shown to date back to the La Quina disc, carved by a Neanderthal man a hundred thousand years ago).

...

Although much of what he said was above my head, much of it made sense, for an old friend of mine, the psychologist Stan Gooch, had written a book called "*Cities of Dreams*". This Book has argued that Neanderthal man was a highly intelligent creature who had created his own civilization. It had left me in no doubt that Neanderthal was far more intelligent than we have given him credit for, while the claim that ancient measurements proved the existence of some great ur-civilization had been argued in a remarkable book called "*Historical Metrology*" by A.E. Berriman in 1953.

So there was little doubt in my mind that I had

solved the problem of Hapgood's hundred-thousand-year-old civilization. I now knew who had given Hapgood the evidence that had convinced him – the *disque en calcaire* and the ancient measurements – and that when Hapgood had looked at this evidence, he had seen as clearly as I had that the answer had to lie in Neanderthal man.”

This was the passage of Wilson's book that convinced myself that my conclusions in “*Our illusory physics*” were acceptable also for other people, and therefore have to be considered seriously and discussed as soon as possible. It is also the main motivation for me to write this second book during my stay in Canada. Let me put this conclusion once more in my own words. All of us, living today on Earth, are children of one or another Atlantis, the recent civilization of the recent species of the Genus *Homo Sapiens Neanderthalensis*. And I have to warn everybody: I am annoyed very much and possibly even impolitely, if somebody liked to call furthermore my grand-grand-grandparents crude, uneducated cavemen.

Let us return to the evidence for the lost knowledge during the life of our “modern” civilizations. We read further, on page 17 of Wilson's book:

“Looked at in a photograph, the pyramids do not seem at all mysterious. They are basically huge piles of stones. But when you stand directly in front of the Great Pyramid, you see the problem. It would not be difficult to lay the first, second, and even third course of granite blocks weighing between two and six tons each; this task could be done by sheer manpower.

But you still have another two hundred courses to go. How do you get blocks up to, say, tier 150? Build a sloping ramp and drag them up? But to get them to that height, you would need as much material in the ramp as in the pyramid itself. Moreover, to avoid collapse it would have to be of solid stone.

Could portable lifting gear be used to rise the stones a block at a time, as Herodotus said the builders did? Using this method, it would take a day to raise and position just one block, and even at twenty-five blocks a day, the pyramid would take 274 years to complete. (Remember, it contains 2,300,000 blocks.) Herodotus said it only took 20 years to build, an obvious impossibility, unless the builders had some secret that we have forgotten.”

We can find the next examples on pages 23 and 24:

“The original center of the Piri Reis map was in Egypt, but was way off the map. Alexandria seemed to be the obvious place for the center. But more calculations showed it had to be further south. In fact, it proved to be Syene (*the original name for Aswan; P.J.*). This discovery, Hapgood realized, had some interesting implications.

When the mapmakers of Alexandria set out to make a new map, it is unlikely that they actually sailed to the various places they were mapping. They probably used older maps. And without the 4-degree error, these old maps must have been remarkably accurate, which suggests that the pre-Alexandria mapmakers possessed a more accurate and advanced mapmaking science than the Greeks had. (*Please note here the tendency: the*

newer the civilization – here the Greek one, the more of the previous knowledge was gone lost; P.J.)

In fact, interesting evidence exists proving that this was so. Toward the end of the second century BC, the Greek grammarian Agatharchides of Cnidus, who was a tutor to one of the Ptolemy kings of Egypt was told that, according to ancient tradition, the base of each side of the Great Pyramid was precisely one-eighth of a minute of a degree of the earth's circumference. (A minute is a sixtieth of a degree.) The pyramid's base is just over 230 meters.

Now if we test that statement by multiplying 230 by 8, to get it into minutes, then by 60, to get it into degrees, then by 360, to get the size of the earth, the result is just under four hundred (*note that here should stay 39.744 instead of “four hundred”; Colin Wilson was apparently not used to calculate by himself, sorry Colin; P.J.*) thousand kilometers, or just under twenty five thousand miles, an amazingly accurate estimate of the length of the equator. So it seems that the architect of the pyramids already knew the size of the earth in 2500 BC.

...

The French meter is supposed to be precisely one ten-millionth of the distance from equator to pole. Jomard's study of the pyramid convinced him that the Egyptians had also used a measure based on the earth's size, in this case, two hundred and sixteen thousandths of the equator. (216,000 is sixty cubed.)

This information is astonishing. How could a fairly

primitive agricultural civilization know the size of the earth? What is equally hard to understand is why this knowledge had to be rediscovered by Eratosthenes more than two thousand years later, unless we recall that until Columbus sailed to America, the general belief was that the earth was flat. Knowledge can be lost very easily, as Hapgood emphasized at the end of his book, *"Maps of the Ancient Sea Kings"*.

Where did the Egyptians learn all this knowledge of distances and measurements? We could understand if they were great seafarers, like the Vikings, but they weren't. They were inclined to stick to their own land and their own sea. So they can only have learned it from some earlier civilization. Hapgood concluded that their 'evident knowledge of longitudes implies a people unknown to us, a nation of seafarers, with instruments for finding longitude undreamed of by the Greeks'."

At that point we have to ask ourselves, was this just the natural process of oblivion, or maybe was there also activated some other reason "that until Columbus sailed to America, the general belief was that the earth was flat."

As you would probably expected from me, I have indeed ordered parallel with the Colin Wilson's book also several other books to similar subjects. One of them, *"Lost Race of the Giants; The mystery of their culture, influence, and decline throughout the world"* by Patrick Chouinard (Bear & Company, Rochester, Vermont, 2013; ISBN: 978-159143148-0), turned out to be also very interesting. The subject of this second book is even more controversial than that of Wilson's book, because the evidence of giants

living on the Earth until our own civilization is much more abundant, and thus the question arises, why is this evidence not being taught in our schools. The explanation has been already included in Foreword to the Chouinard's book, written by an interdisciplinary cosmologists and independent scholar Paul Von Ward:

“Over the last few decades millions of people have begun to realize that our academic history books are filled with holes and patched with misleading conclusions based on flimsy evidence. The human story programmed into the minds of today's high school and college graduates is now being proven false in very fundamental ways. ... most people do not know that much of what they are taught in school or college is outdated or false. In some cases, information is kept from the public because it challenges established institutions. In others, new discoveries are sidelined by stodgy procedures that delay the testing of new evidence. The more serious, historical problem, however, is the censorship and rewriting of history by elites desiring political, social, and psychological control of others. In this situation, suppression is the result of deliberate manipulation of both historical and newly discovered evidence.”

I think, not a lot of comments is necessary here for any independently thinking reader. We can feel us lucky to live in times when the scientific paradigm, the holistic point of view upon Nature and our role in her processes, is finally emerging from the “darkness” of the medieval “inquisition”. If it is possible for us to buy and study the books by Colin Wilson, Patrick Chouinard, Ervin Laszlo, and many others, we already are going towards the new

understanding of the world around us. And if you have even saved and studied also some of my texts, including the book “*Our illusory physics*” (and of course the present one), you are also personally contributing to the necessary acceleration of the paradigm change.

We shall return to the giants story in the following Chapter. Here, let us read in Wilson's book about some further examples of the lost knowledge of the last peaceful civilizations of the gigantic *Atlants*, the last Neanderthals.

On page 26, we read there:

On the matter of sacred sites, I was in basic disagreement with Flem-Ath. He thought they were simply ancient “markers” laid down to indicate earthquake zones. My own investigation of ancient sites – like Stonehenge and Carnac – had instead convinced me that they were chosen as sacred because they contain whirlpools of some earth force that can literally produce magical effects. As vice-president of the Ghost Club Society, I have noted again and again how often hauntings are associated with whirlpools of earth force, and when writing a book on UFOs, I have noted how frequently UFOs were seen in such areas. When approaching the megaliths at Stonehenge with a dowsing rod, I have actually felt this force. It is like walking into a powerful magnetic field.

In certain places the force can produce an unpleasant effect, making one feel disoriented, as if suffering from a slight fever. I once felt this at Carnac, in Brittany, and noticed that it became almost tangible in a small field with many standing stones, where my dowsing rod twisted in my hands

as if it were alive.”

From the traditional point of view, we can be sure, the Wilson's explanation could not be seriously taken into account in the context as presented above. Neither his experiences with dowsing, nor the many UFOs reports, nor his high position in the Ghost Club Society, could help him to become an expert in interpreting of the phenomena being baned to the very edge of the traditional science.

First when applying the holistic point of view, we can try to join the seemingly separate observations into a common real phenomena known also from another natural objects. One of such phenomena is the sunspots, the “dark” spots on the Sun's surface. The second is the so called aurora borealis (the lights above the North Pole) or aurora australis (the lights above the South Pole). The third is a distribution of meridians and chacras in a human body. And the fourth is the discharging lines between two points of high difference in the electric (or energetic) potential, like in the lightnings in the Earth's atmosphere, or in the sparks between two spheres of a school electrostatic generator. You are probably asking yourself at this moment, what on earth could all these phenomena have in common with themselves and with the above mentioned assertion by Colin Wilson? Let me tell you my opinion to this point.

The sunspots are the seemingly dark, irregularly shaped, but approximately circular spots on the solar surface. They are mostly abundant during the maximum phase of each (approximately) 11years cycle of the Sun activity, and much less abundant, or completely absent, during the minimum phase of each cycle. Without going deeper into

the solar physics, let us just note that the sunspots are not that what the traditional physics are explaining to us. They are nothing produced by the Sun itself. They are those places of the Sun's surface where the “streams” of the cosmic energy, connecting the Sun with its huge Cosmic Hierarchy, are incoming into the Sun. The same kind of the energetic “streams”, though on a much lower scale, is connecting the Earth with our cosmic environment. And the same kind of the energetic “streams”, on a minimal scale of course, is connecting our own bodies with our cosmic environment. The sunspots equivalent in our bodies is known as chacras, and the corresponding equivalent on the Earth's surface is exactly what Colin Wilson has called the “whirlpools of earth force”.

The real sunspots are interconnected with energy lines (erroneously called in the traditional physics as magnetic lines) which are visible above the solar surface by means of special cameras “seeing” in different ranges of the electromagnetic spectrum, and which are closed to full (not necessarily circular) loops underneath the solar surface. The same role of the internal parts of our own energetic loops play the so-called meridian channels in our bodies, used for example by the acupuncture specialists. The outer parts of our energy-loops forms an energetic covering of our body, a kind of an energy-cocoon, called aura.

In the case of our Earth the analogous energy-cocoon contains what has been traditionally called the magnetosphere and the Van Allen radiation belts, and maybe some still unknown sheets of our energetic “aura”. And the internal parts of all the energy loops, running under the Earth's surface are probably the “activity” lines

observed and studied by Rand Flem-Ath. The terrestrial chakras are his “markers” along those lines and simultaneously also the Wilson's “whirlpools of earth force”. They both were right in their fundamental assumptions, though the further conclusions were different and not quite correct, as we can see now.

Our holistic treatment of the natural phenomena allows us to go even one step further as Flem-Ath and Wilson have done and ask what can we say about the dynamics of the energetic systems around the Sun, the Earth, or around our bodies. How stable are they in the course of time?

Let us learn once more from Nature herself. We can observe the cyclic change in the complicated structure of the energy cocoon of our Sun. We have also many observations of many factors influencing our own aura and also the position of our meridian along our body. Therefore, it seems to be obvious that also the meridians and chakras of the Earth's surface cannot be expected to “seat” immovable on the drifting continental (and surely also oceanic) crust. Like the lightnings in our atmosphere or the sparks in the electrostatic generator (Wimshurst machine) being always seeking for new ways of the lowest resistance, also the Earth's meridians and chakras are changing their positions. It is the reason, why after some shorter or longer time the once sacred places of the ancient civilizations had lost their mysterious “power”. The signals from God (or Gods) became weaker and weaker until they gone completely lost. When the connection between the priests and their God became interrupted, the religion had lost its leading position and became unable to further organize the life of the disoriented people. Any next natural catastrophe was able to destroy the whole

civilization.

I think, with our present satellite technique we should be able to “see” from the sky (in a proper wavelengths of the used cameras), where had all the ancient chakras of the energy-cocoon of the Earth moved till today. To know their positions could be worthy not so much for our religion today, but for our health and well-feeling. Nevertheless, maybe also our individual life could be saved through this knowledge. There are many reports known around the world concerning the mysterious regions of strongly enhanced risk to sail, to fly, or simply to drive with a car over such extraordinary points. The continuous (though quantized) energy transfer between the Earth's surface and our cosmic environment is surely not less structured than such a transfer between our body's inside and outside. Exactly two months before I am writing this page, the popular scientific news (Phys.org) had announced on 4th December 2013, the following discovery: “*Mysteries of Earth's radiation belts uncovered by Van Allen Probes twin spacecraft*”. In the message itself we can read, among others:

“Just over a year since launch, NASA's Van Allen Probes mission continues to unravel longstanding mysteries of Earth's high-energy radiation belts that encircle our planet and pose hazards to orbiting satellites and astronauts. ...

With the discoveries, scientists are starting to unravel the different pieces of the puzzle for any particular particle event that changes the structure of the radiation belts. Ultimately they hope to be able to understand the dynamics well enough to actually predict how, collectively, all these different conditions working in tandem make the

belts either move in or out, inflate, deflate, change energy, or lose or gain particles.”

If we remember that Van Allen's discovery of the radiation belts (named with his name) lies more than 50 years back, the fact that Nature still has surprises for us in our direct neighborhood, not far above our heads, means that we have still much to learn about our cosmic environment. I am convinced that the *Atlants* were able to feel the Earth's energy cocoon (including the terrestrial meridians and chakras) also without satellites, just using their senses and their consciousness.

The next example of the lost ancient knowledge being discussed in Colin Wilson's book concerns another fantastic phenomenon connected with the Great Pyramid of Giza. By the way, let us note how unbelievably ignorant the traditional science could be, when meeting some difficult or unexpected observation. In Wikipedia we can read about the King's Chamber of the Great Pyramid of Giza” (http://en.wikipedia.org/wiki/Great_Pyramid_of_Giza):

“The only object in the King's Chamber is a rectangular granite *sarcophagus*, one corner of which is broken. The sarcophagus is slightly larger than the Ascending Passage, which indicates that it must have been placed in the Chamber before the roof was put in place. Unlike the fine masonry of the walls of the Chamber, the sarcophagus is roughly finished, with saw marks visible in several places. This is in contrast with the finely finished and decorated sarcophagi found in other pyramids of the same period. Petrie suggested that such a sarcophagus was intended but was lost in the river on the way north from Aswan and a hurriedly-

made replacement was used instead.”

I really cannot believe that the greatest and surely the most important of all Egyptian pyramids should be built with some “replacement sarcophagus”. It is once more just a strong evidence that our arrogant civilization is still losing the most important knowledge of our preceding civilizations. We have to stop this tendency, trying to save what is still known to our contemporary researchers, including Hapgood, Wilson, Laszlo and others, even if they were not or are not the members of the most respected scientific organizations.

We read by Colin Wilson on pages 25 and 26 as follows.

“Our guide at Edfu was Emil Shaker, an authority on ancient Egypt. He was convinced that sound played an important part in the mystery of the temples. In 1998, scientists at Southampton University discovered that the megaliths at Stonehenge have acoustic properties and could have acted as gigantic amplifiers for drumming during festivals, their flat surfaces accumulating and reflecting sound over a wide area. And we discovered that temples had the same effect, functioning almost like an echo chamber. We stood in a doorway in a temple courtyard and made a deep humming sound, and it was amplified by the stone. ...

My suspicion that the secret of the temples lay in sound vibration was supported by an American engineer named Chris Dunn, who was convinced that the Great Pyramid was a kind of gigantic sounding box.”

On page 27 we read further:

“Another friend, David Elkington, stumbled on something equally fascinating. In his book *“In the Name of the Gods”*, he describes how in Giza he met a sound engineer named John Reid, to whom he explained his theory that the Pyramid was somehow “alive”, and responded to sound. Reid verified this observation with a curious experiment. He made a temporary repair of the broken corner of the sarcophagus with an aluminium corner, then stretched a plastic membrane over the top of the sarcophagus, and sprinkled sand on it. A small loudspeaker was connected to the sine-wave oscillator, which was then switched on. The sand quickly began to arrange itself into patterns, like sand on a drum.

To Reid's amazement, the sand began to form a whole series of Egyptian religious symbols: the Pharaoh's ritual headdress, the Ankh, and the sacred eye of Horus, bringing an entirely new meaning to the Masonic phrase, 'the eye in the pyramid'. Photographs of these patterns are printed in Elkington's book, and they leave no doubt that our guide Emil Shaker was right: the secret of ancient Egypt is connected with sound patterns. Elkington describes the sound-rituals of the temples and pyramids as 'an acoustic Eucharist'.”

I am also strongly convinced that the “*sarcophagus*” was never minded to be a coffin for a Pharaoh or someone else. It was a table and a resonance box for a fine resonating plate (surely stolen long ago) on which the true, physically real acoustic weaves (signals) incoming into the Pyramid directly from God (maybe Orion) had formed the holly

figures and forms used by priests (or maybe by Pharaoh himself) to foretell the future as it would be the wish of the God. Thus the Great Pyramid of Giza was a majestic “operational headquarters” communicating directly with God (or Gods) of the ancient Egypt, like much later and on a much smaller physical scale, the oracle of Delphi was for ancient Greeks. I think it is a grandiose idea, indeed.

Next great portion of the ancient knowledge had to be connected with what we could name today as an advanced mathematics of the *Atlants*. On page 32 of Wilson's book, we read:

“In 1843, a Frenchman named Paul Emile Botta, who was consul as Mosul in Iraq (then Mesopotamia), began digging at a mound called Kuyundjik, near the upper Tigris, and came upon the library of the Assyrian king Assurbanipal (669-626 BC). Among the clay tablets, he discovered one containing a vast number: 195,955,200,000,000. The name of the ruined city in the mound was Nineveh.

At that time, even the concept of a million was rarely used in the west, so Botta was perplexed. What on earth could the ancient Assyrians want with a number so vast?

Using a computer, Chatelein discovered that this figure is not as arbitrary as it looks. It is 60 multiplied by 70 to the power of seven. (*Once again, we have to improve here Colin's mathematics: the Nineveh number equals 60 to the power of seven, then multiplied by 70; P.J.*)

In his book, Chatelein recalled an obscure piece of information: the Sumerians, who invented writing, did their calculations in sixties rather than tens.

(They invented sixty seconds to the minute and sixty minutes to the hour.) *(I think, they had not invented all these things, but had simply saved them from the lost knowledge; P.J.)* Suddenly, in a flash of inspiration, Chatelain wondered if this huge figure could not be in seconds. He worked it out to be 2,268 milliard (*not million, as we read in Colin's text; P.J.*) days, or somewhat over 6 million years (*being exactly 6,209,530.59 years; P.J.*).

The Sumerian had also been great astronomers, who had compiled tables of the motions of all the planets, including Uranus and Neptune. Did they, Chatelain wondered, know about the precession of the equinoxes? The time it takes for the earth to complete its precessional cycle is just under 26,000 years. He tried dividing this into the Nineveh number, and was delighted to find that it was exactly 240 precessional cycles – or 'Big Years'.

Now he found himself wondering if this giant number might be what astrologers and occultists used to refer to as 'the great constant of the solar system', a 'highest common factor' into which all other numbers – planetary orbits, and so on – will divide. He proceeded to calculate the cycles of the planets and their satellites in seconds and found that each would divide exactly into the Nineveh number.

This was staggering. Modern science assumes that these ancient astronomers were interested in the heavens for purely superstitious reasons. But if the Nineveh number was what Chatelain suspected, it proved that the Chaldean astronomers understood our solar system as well as Isaac Newton did.

To test this still further, Chatelain compared the

period of the earth's rotation with the figure obtained from the Nineveh number. He was slightly puzzled to find a slight discrepancy in the sixth decimal place. Admittedly, this inconsistency was only a twelve-millionth of a day per year. But the Nineveh number had proved itself so accurate that he could not understand even such a tiny difference.

Then the answer dawned on Chatelain. We now know that the earth is slowing down very slowly. In twelve million years, a year will be shorter by a day.

For the Nineveh number to fit our earth's rotation with total accuracy, it is necessary to assume that it was calculated 64,800 years ago. But surely no intelligent beings existed that long ago?

Yet according to the Nineveh number, human beings were not only here but were as scientifically sophisticated as any that followed many millennia later.

If so, then who were they? We may take our pick. They may have been Neanderthals, who were still around then. Or they may have been our own kind, Cro-Magnons."

I have already included the necessary corrections to the mathematical quotations done by Colin Wilson in the above fragment of his book. From the remaining two corrections the first one is simply a remainder to what we have said about the Cro Magnon man below the recent figure here above; let us finally "release the very advanced *Cro Magnon* men back to their own highly developed Genus *Homo Sapiens Neanderthalensis*". The last correction, however, demands some mathematics again.

As I have already widely concluded in Chapter 8 of my previous book “*Our illusory physics*”, it is not true what Colin Wilson repeats here above,

“that the earth is slowing down very slowly. In twelve million years, a year will be shorter by a day.”

The Earth's rotation is not slowing down (with the exceptional phases of her entering in the regions of the higher-level energy bridges of our Comic Hierarchy). The decreasing number of days in a year is coming from the continuous approach of the Earth-Moon system to the center of mass of the Solar System. We can conclude from the calculation I have presented in “*Our illusory physics*” that a year will be shorter by a day in sixteen (and not, as Colin Wilson cited, in twelve) million years. I have written in the summary of this calculation as follows.

“Therefore, we have to accept the above value of the approach velocity of $6.24 \cdot 10^{-6}$ days/100 years, and consequently also our model of the Solar System structure, including the Moon's formation and the presence of the *Andrea-Star*, the small companion of our Sun. The tropical year was 218.4 days longer 3.5 Mld years ago than it is at the present. The Earth was then about 50 million km further away from the Sun than today. The corresponding average surface temperature of the young Earth (shortly after the collision) had to be about 40 degree Celsius lower than today (about 240 K), deep under the 0°C water-freezing point (at 273 K). Consequently there was no liquid water on the Earth for the first 2.5 to 3 billion years of its existence, there were no oceans there. The evolution of the terrestrial life had to be completely

rewritten indeed.

As we see, the main conclusions from this simple calculation are evidently not so negligible as it could seem from the small value of a half second in hundred years. I am glad to have explained its importance.”

In order to close the present Chapter, let me cite two more technological rather than scientific examples of the lost knowledge of the species of *Atlants*. On page 39 of Colin Wilson's book we read:

“A similar problem was encountered in the long-necked vases found in the Step Pyramid at Saqqara, built about 2650 BC. The vases had been carved out of crystalline materials such as quartz, diorite, or basalt. Archaeologists were puzzled by how craftsmen had carved the insides of the vases. Such craftsmanship would require not only a long drill to reach down the neck, which was too narrow to admit a child's finger, but also an instrument to cut out the inside with delicate precision. We are forced back to the improbable hypothesis that the craftsmen had some method of softening the crystal to the consistency of clay, or perhaps of melting it like glass. The ancient Egyptians clearly had technology that has since been lost.”

And the second example follows on page 42:

“And Captain Arlington Mallery, who had taken part in the Georgetown panel broadcast of 1956 (mentioned earlier in this book) about the Piri Reis map, had also made some astonishing claims. Mallery had excavated a number of furnaces in Ohio and Virginia and, as a result, was certain that

iron-smelting techniques were in use before 4000 BC. And the ancient Egyptians, Mallery declared, were using tremendously high temperatures, which they obtained “by the same processes that made the atom bomb possible”. Mallery was convinced that 5000 years ago, the Egyptians were using the same fission processes that scientists have thought was a new discovery in the twentieth century.

But Hapgood was skeptical about the atomic power theory. He had heard about an unknown people whose civilization was now under the sea off the coast of Ecuador, who knew all about optics, and had made lenses and prisms to focus the sun's rays. Concave mirrors can be used to concentrate the sun's rays; Archimedes devised huge metal mirrors to set alight the Roman galleys besieging Syracuse in 211 BC. (Robert Temple would devote a book entitled “*The Crystal Sun*” to the subject of ancient lenses, made long before man was supposed to have discovered them.)

So it was Hapgood's view that the ancients may well have learned the secret of creating very high temperatures – but using lenses, not atomic energy.”

I am not going deeper into this example, because the main subject of the present book is not to explain the technique itself. I just want mention that there are yet another thinkable technological possibilities to reach very high concentration of energy, beside of “using lenses or atomic energy” (whatever Mallery could have minded with this term). But even with our best technologies of the present we still are not able to clean the surfaces of huge stones needed to build the greatest pyramids still existing all over

the World.

3

A Dance of two Old Partners

In this Chapter, we are going to explain two further examples of the lost ancient knowledge. We have to describe these examples in more depth than the examples of the previous Chapter, because the problem has much greater significance for our entire life and science.

First of them concerns the ancient knowledge about the special position of Venus in our Solar System. Still the relatively recent civilization of Maya (living parallel to the Roman civilization) did know about it. We ourselves are the first “great” civilization which has completely lost this important part of the ancient knowledge. Colin Wilson dedicates a whole chapter of his book to “the Mystery of the Maya”. We read in this Chapter the following stories.

“The Maya were a paradox. They had not even discovered the wheel, yet their calendar and knowledge of astronomy suggested that they were intellectual supermen. ...

These Mexican Indians, who developed a more precise calendar than anyone else – even more exact than the Romans whose Julian calendar was 365 days long – had a year that was 365.2420 days long. This kind of accuracy is astounding. How could the early Maya, the so-called “classic Maya” - who built cities in the jungle before they

mysteriously abandoned them around 890 AD – want a calendar as accurate as that? Our own modern measurement of the year, based on the cesium clock, is 365.2422 days long, two ten-thousandths of a day longer.

Moreover the Maya had invented a symbol for zero, which is regarded as a basic essential in mathematics, yet neither the Greeks nor the Romans had a zero. This may hardly seem important. But without the decimal system – counting in tens – it is impossible to arrange numbers in columns of ten, each column ten times the previous one. When the Romans wanted to write a figure like 1944, they had to write MCMXLIV.

Mayan astronomy is awe-inspiring. It is so complex and precise that some Martian (*Mayan?*; *P.J.*) scholar who had stumbled on it by chance might well conclude that the Maya were Earth's greatest scientists.

We calculate the year by the sun; so did the Maya. But they also calculated it by the planet Venus, as well as by Jupiter-Saturn cycles. ... The “Venus year” (584 days long) (*exactly taking, this synodic period is 583.92 days long; P.J.*) caught up with the other every two Mayan centuries ($52 \times 2 = 104$ years).

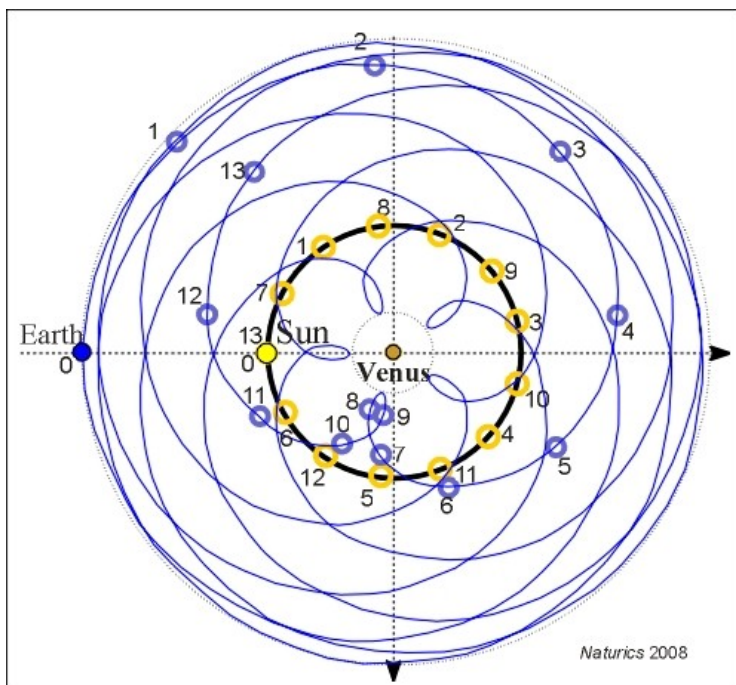
There was still another calendar, called the Long Count, used to calculate long periods of time. Its unit, as we have noted, was 20 days. 360 days was a “tun”. Twenty tuns was a “katun”, and 20 katuns was a “baktun”, which is 144,000 days. Thirteen baktuns equaled one “Great Cycle”, or one “earth age”, at the end of which everything would be

destroyed and start all over again. The present earth cycle began in 3114 BC and will end in December 2012 AD. (*remember that Wilson's book was published in 2006; P.J.*)

The Maya also knew of the existence of Uranus and Neptune, although neither was discovered in Europe until the mid-nineteenth century. Robert Temple is inclined to believe they had some form of telescope. (This also applies to the Sumerians, who represented Saturn with a ring around it, although it cannot be seen with the naked eye.)”

Colin Wilson had seemingly forgotten his own conclusion we have cited at the end of the previous Chapter, that the lenses had to be already used thousands of years before the Maya and even Sumerian civilizations. The Sumerian and Maya had simply saved the knowledge won probably by *Atlants*. I think, from a lens to a wheel it should really be just a small step. But those both discoveries was evidently too difficult for the Maya. The old observational optical technology has been already lost in their time. But not the knowledge about the extraordinary place of Venus in our Solar System.

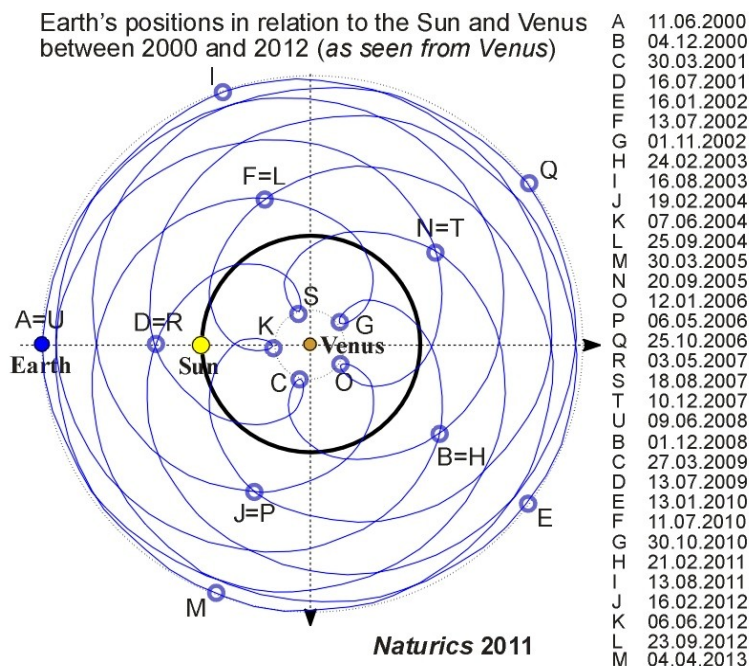
What had they had to know was the real motion of our Sun around the Venus. The Earth orbit around the Sun is never ever a Kepler's ellipse. If we observe day after day (or at least weak after weak) a position of Venus in relation to some distant stars, we have to note that the Earth's is “running” not along an ellipse, but along a rosette with Venus in its center. Of course, the Sun is orbiting the same point too. Therefore, Earth has to revolve Sun and Venus simultaneously. It results in such a beautiful rosette as shown in the picture below.



We can start our observation cycle of eight years in a moment when Sun (in the “yellow” position 0) is exactly between Earth (in her “blue” position 0) and Venus (in center of the reference system). The Sun-Venus distance remains constant (in the picture scale), and also the Earth-Sun distance remains (approximately) constant. It means that when Sun reaches the (yellow) position 1 the Earth has also to be in the (blue) position 1, and so on. After eight years (it means of course, after eight full revolutions around the Sun) Earth has absolved (almost exactly) five full revolutions around the center of mass of the Solar System (or simply, Venus), and the Sun has done the same, but already thirteen times. (Note that 5, 8, and 13, belong to the Fibonacci sequence of numbers; you can

read more about them and the golden ratio in “*Our illusory physics*”).

Of course, we are able to observe the real motion of our planet along the rosette-orbit. In the picture below we see several exemplary points, where Earth was really positioned in their “orbital” motion around the Sun and the Venus simultaneously.



I have to admit, I cannot find any reasonable explanation, why this simple, however esthetically highly impressive knowledge, will not be taught in our schools. There is nothing from occultism or astrology in this evidently scientific insight.

A similar misunderstanding has probably precluded till

today also another simple observation, possible to be repeated on every table computer by using of a free available astrophysical simulator for motions of the planets of our Solar System. However, before we describe this simulation, let us explain why do we expect to see some interesting effect of such a simulation.

I have already written many times in my books and in my Internet blogs about the reason, why has Venus been formed exactly in the global center of mass of the whole Solar System. Nevertheless, let me summarize this information once more for the new readers of my texts.

One of the fundamental errors of the traditional science was to believe that our Sun could be formed in an accretion process (a self-contraction of a rotating disk) of a undisturbed cloud of primordial cosmic matter. This assumption is incompatible with the even simplest version of the Newtonian gravity theory. The most stars in the observable Universe are formed as double or even triple stellar systems, because of a disturbance during the accretion. Only such multiple systems are able to develop planets. Our Sun is also a product of a disturbed contraction, that has happened probably about 7.1 milliard years ago. The disturbance during the accretion process was a near whirlpool of the cosmic matter which had caused a creation of a second concentration center of the primordial matter at the edge of our gravitationally collapsing cloud. The Proto-Sun has collected about 98 percent of the whole cloud mass in the central part (but impossibly directly in the global center of mass) of the appearing system. However, the remaining two percent was collected around the second appearing stellar object at the outside boundary of the system. The second stellar

object, the small brother of the Sun (which I am going to call the *Andrea-Star* further on) was a colder brown dwarf, orbiting the same common center of mass as the Proto-Sun has done. A very small rest of the creation cloud (below one-tenth of a percent of the starting mass) could not decide itself to which of the accretion centers should it go and so has contributed to building the proto-planets.

The distance of the Proto-Sun from the global center of mass of the whole system is the determining factor for the universal quantization conditions of the emerging system. These quantization conditions has allowed to form exactly four proto-planets around the Proto-Sun and four smaller around the *Andrea-Star*. One of the solar proto-planets became the Sun's pseudo-moon. It was Proto-Mercury. The second has been formed directly in the global center of mass. It was the Proto-Venus. The third proto-planet had to simultaneously revolve around the Proto-Sun and the global center of mass (Proto-Venus). It was Proto-Earth. And the next and last was Proto-Mars. They four are comparable in their size and mass with the present Venus (about 12,000 km in diameter and with density of about $5,000 \text{ kg/m}^3$). The proto-planets of the *Andrea-Star* were smaller and less dense (with diameter of about 5,000 km and density of about $3,000 \text{ kg/m}^3$), because the material remaining at the edge of the accretion disk was mostly lighter than in the central part of the system.

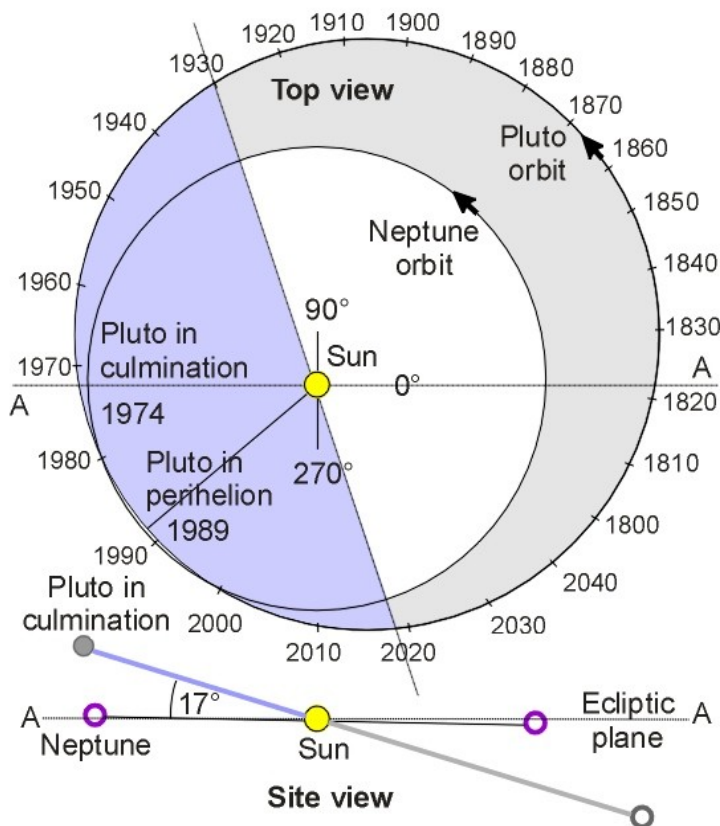
The first period of the level 9 of the Cosmic Hierarchy ended 3506.6 million years ago with a crossing of the hierarchy through the energy bridge of level 10 (still only partly observable with our present techniques). During this passage also our Proto-Solar System has collided with the objects constituting this huge bridge. One of them hit the

Andrea-Star directly in the heart. The small star exploded. The “broken heart” was interjected inside the old system and had formed what we call Jupiter. The collision-partner was also damaged. What remains from it until today is Saturn. Uranus and Neptune are the other rests of the *Andrea-Star* being also catapulted as closed entities inside the system. However, the most part of the *Andrea-Star* mass is still orbiting the center of mass of the whole system (Venus) on the same original orbit in form of millions smaller dark pieces of the cold stellar matter. This matter, together with the mass of the four “gaseous planets” holds the center of mass of our present Solar System in exactly the same distance to the Sun as we are used to call the Sun-Venus distance.

The four proto-planets of the *Andrea-Star* cannot help us to identify the center of mass of the broken star, because those proto-planets were also catapulted inside the whole system. Three of them had survived the catastrophe. Two of them, Ganymede and Callisto, are today thought of as the moons of Jupiter. The third, Titan, became a moon of Saturn. Only the fourth one has been destructed. Two of its largest parts form today Io and Europa, the further two “Galilean” moons of Jupiter.

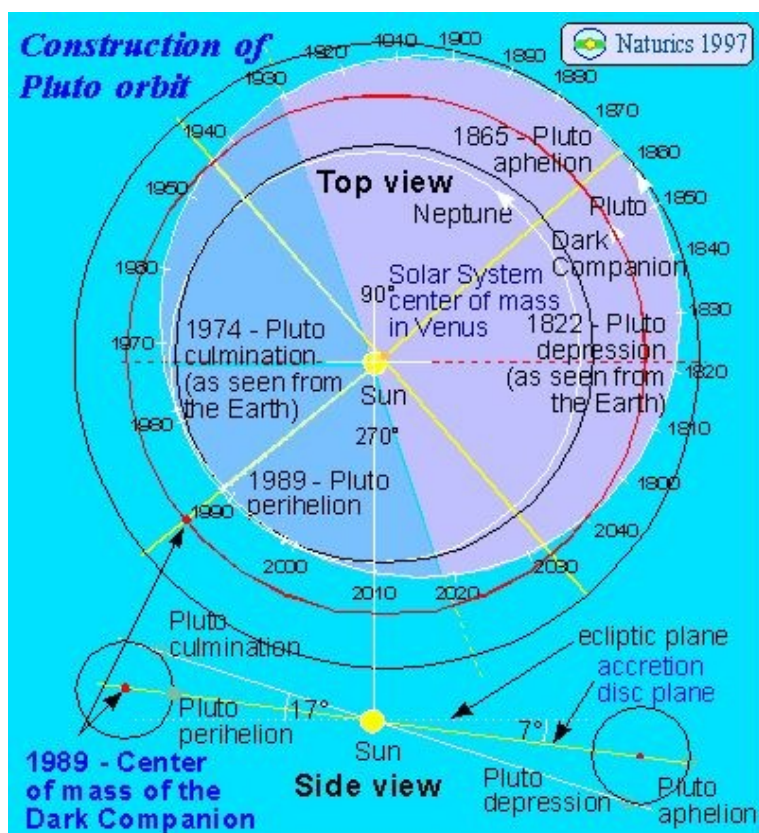
But fortunately, the small Pluto is our solution. It revolves the two centers of mass of the primordial disturbed accretion disk simultaneously, giving us the necessary information, where is the center of mass of the *Andrea-Star* today. Pluto revolves the Venus, the global center of mass, during every 247 years, and with the same period, the local center of mass in the today so-called Kuiper Belt. The following pictures demonstrate the situation. What we see in the upper part of the picture

here, is the very schematic presentation of the orbits of Neptune and Pluto, including the Pluto's positions between 1800 and 2040.



The lower part of the picture shows the side view of these orbits. In the picture scale it is not important whether the Sun or the Venus is positioned in the center of the picture. The next picture explains where we have to see for the center of mass of the *Andrea-Star*. A standard calculation (presented elsewhere, because of not a high importance for our present subject) gives the Pluto's revolution radius

around this center to be 10 AU (*ten times the presently measured distance between Earth and Sun*). This means, the maximal distance of Pluto from the Solar-System center is 49.4 AU, and the minimal distance is 29.4 AU, slightly inside the orbit of Neptune.



The period of the Pluto's revolution, the same for both centers) is 247.19 years. This double revolution is the reason why Pluto's orbit is so much declined to the ecliptic, the plane in which Earth revolves around the Sun.

Now, we are finally prepared to start and to understand our animation of the planets' motion around the Sun located in the center of the animation reference frame. The animation demonstrates how the two old partners, our Sun and the *Andrea-Star* were dancing their cosmic waltz around Venus between 7.1 and 3.5 milliard years ago, and how the restructured masses of the present-day Solar System are continuing the same rhythm till our time.

Unfortunately, in order to observe this dance we cannot sit down on Venus and follow the Sun eight months long for to see with naked eye the change of Sun's position on the background of the stars. We know however that the mass of the *Andrea-Star* still exists at the edge of the Solar System. This mass alters our observational situation, even if we comfortably remain sitting in our chairs on the Earth.

Would Sun stay in the center of mass of the whole system, we would see it on the same day of every year in the same point of the stellar background, and Venus would appear quite regularly, with her circulation-period of 224.7 days, somewhere on her orbit around the Sun. However, if not Sun but Venus lies actually in the center of mass of the Solar System, then the situation changes dramatically. We still define our terrestrial year after the same principle as previously. That is the period of time between two points, in which Sun appears - from our perspective - in front of the same point of the cosmic background. However, Venus doesn't care about our definition, of course. She knows the Sun dancing around herself, firstly with the period of 224.7 days, because of the mass of the Sun itself, and secondly, with the period of 247.19 years, because of the mass of the *Andrea-Star*. Since each natural motion is relative, we can consider the dance of the Sun around

Venus also as a dance of Venus around the Sun (as the traditional astrophysics does till today). And we exactly can observe the slower of those steps of the dance of Venus around Sun at our own home computer quite comfortably. All what we need for it, is only an astrophysical program, that is able to animate the motions of the planets of the Solar System. Such programs are easily obtainable in Internet. The series of four sketches below demonstrates what a sensational observation results from such an animation.

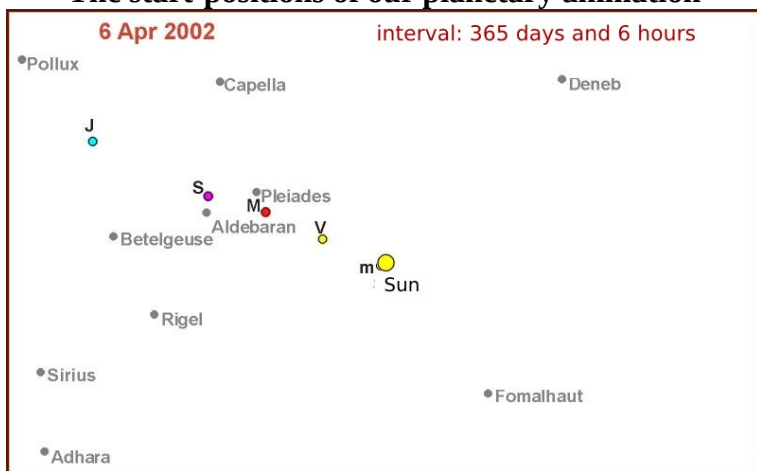
Most of us have no idea about the distances to the visible stars. What does it mean a near star or a far star, in relation to the astronomic unit or to the light-year (the distance light is reaching in a year). Therefore, let us compare the data of the table below with the distance of 4.2 light-years between the Sun and Proxima Centauri, the nearest visible star. The ten stars of the cosmic background of our animation have the following distances (as you probably already know, the distances expressed in light-years are independent of the actual value of the speed of light):

Distances of the background-stars

Near stars		Farther stars	
Star	Distance [light-years]	Star	Distance [light-years]
Sirius	8.7	Pleiades	410
Fomalhaut	23	Betelgeuse	520
Pollux	35	Adhara	680
Capella	45	Rigel	900
Aldebaran	68	Deneb	1600

We can start the animation of the planetary motions at any location on the Earth and at any time. In my case, it was the sky over Berlin on 6 April 2002. We place the Sun in the middle of the card. The names of the planets are unequivocal: J - Jupiter, S - Saturn, M - Mars, V - Venus, m - Mercury. It is very important that the interval of the animation is fixed exactly to one year. At the start of our animation, the small Mercury was hidden behind the Sun.

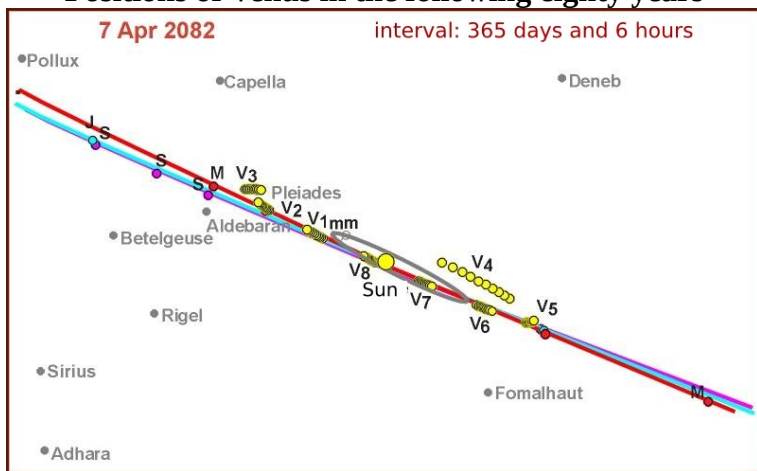
The start-positions of our planetary animation



We allow the animation to run, year after year. Already in the course of the next eighty years, we observe that certain regular patterns build themselves in the positions of the planets. Let us observe the positions of Venus especially precise. The actual positions of the other planets are not so important for our purpose here. Therefore only for Venus, we have represented all eighty positions on the following sketch. For the remaining planets, we have shown only some of the first positions. The corresponding colored lines symbolize the rest of their eighty positions.

Mercury goes around his closed ellipse several times during these eighty years. It lies even nearer to the Sun than the Earth and Venus. Therefore, we never see it removed far from the Sun. The remaining three visible planets, Mars, Jupiter, and Saturn, orbit Sun (and, of course, the center of mass in Venus) in a distance larger than the Earth. It is why we can only see the „open” parts of their orbits running behind the Sun.

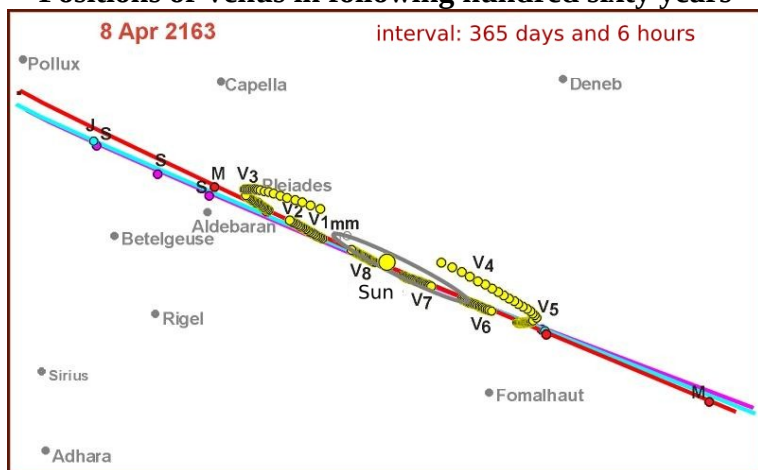
Positions of Venus in the following eighty years



What interests us here is the distribution of the eighty consecutive positions of Venus. They are evidently not scattered over the whole orbit. Rather, they group themselves to tenth in eight sections of the orbit. We have marked these sections on the following sketches, in the sequence of the first visiting them by Venus, as V1 to V8. Why does the apparent orbit of Venus actually divide into eight same sections around the Sun? The answer lies in the rosette orbit (do you remember our construction of the true orbit of Earth around Sun and Venus simultaneously?). In reality, Earth (with us, the observers of the animation)

needs eight years in order to come to the starting-position of its orbit again. In the years between, our true observational positions lies in seven different points of the Solar System.

Positions of Venus in following hundred sixty years

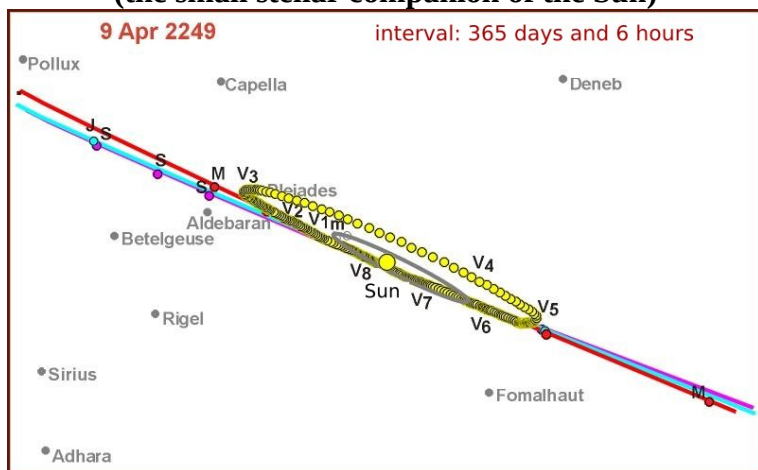


The center of mass of the *Andrea-Star* moves each year about four thousandth parts of its orbit; exactly speaking, one to 247.19. Thus, we see the apparent position of the center of the entire mass in Venus as being also somewhat changed on the background of the stars, as observed from our position on Earth. As we see above, after further eighty years, the center of mass (and, of course, also the mass itself) of the *Andrea-Star* has already left approximately two third of its orbit around Venus behind itself. The same is true also for the apparent orbit of the global center of mass (Venus) around the Sun.

The mass of the *Andrea-Star* finishes its run around Venus in the following eighty-seven years and returns to the position from the year 2002, the first animation year. In

the same time, also Venus turns back to its initial position, as seen from us on the Earth.

**Annual positions of Venus during 247 years
of the present cycle of motion of the *Andrea-Star*
(the small stellar companion of the Sun)**



After that the dance of the two old „partners”, the Sun and the *Andrea-Star* around Venus continues into the next revolution as ever, since seven milliard years.

These 247 illustrations of Venus, that meet themselves year after year, as individual pearls to a string of pearls on the sky, impress me again and again. Such a behavior cannot probably be explained with any other idea as with the existence of the mass of the *Andrea-Star*. If we would have the possibility to observe the whole Solar System from the perspective of the “*New Horizons*” spacecraft, we would be also able to observe the faster dancing rhythm of the Sun around Venus, that of 224 days. One could use the best cameras of “*New Horizons*” to truly photograph the dance of the Sun around the center of mass in Venus. One

could take some photos of Sun and Venus on the background of the far, so-called fixed stars. Eight photos with an interval of one month would actually be enough to demonstrate one full circulation of the Sun around Venus, the center of mass of the Solar System.

“*New Horizons*” is approaching the *Andrea-Star* remnants. The rising interest in Kuiper-Belt objects has given till now observation of thousands of “dark” objects there. And we expect millions of them. Four are even discovered as moons of the tiny Pluto. Nobody understand, how such a crowd small system could be stable. We know now, it is just one another quantized system of the millions further waiting for their discovery. It is going to be aplenty of surprises at the edge of our Solar System in 2015.

In summary, let us yet note that all nature-loving parents live, primarily, with the aim to give the life also to their successors. The *Andrea-Star*, the small companion of our Sun, has “sacrificed” its own life to make possible the evolution of life on the Earth. Even the remnants of this star, and first of all its heart, Jupiter, are still protecting the terrestrial life, as we should become aware after the 1994 crash of Shoemaker-Levy 9 comet on its surface. A single, even the smallest one, of the 22 broken parts of this comet crashing instead on the Earth would definitively be the very last accord of our all life. Let us be a little bit more thankful to Nature and try to understand, how lucky we really are still being allowed to live here.

4

The recent “Great” Flood

An unexpectedly dramatic confirmation of the ideas of "*Naturics*" was delivered to us by the Sumatra-earthquake on the 26 December 2004. An earthquake with epicenter under the Indian Ocean near the North-top of the island Sumatra has caused a tsunami that had reached all coasts around the Indian Ocean in the next minutes and hours. Although neither the earthquake itself nor the following tsunami was extremely strong, the devastations of the coastal regions and the number of the victims was extremely high, according to some reporters even the highest "in human history".

Apart from the immeasurable sorrow of the disaster victims and their families, as a scientist one must put to himself some important questions, and look for sensible answers. One of such questions is: Was that really an extremely rare event in the Earth's history? The answer is unequivocally, no. Such events happened very frequently on Earth, and sometimes with a much higher intensity.

The natural people on the Andaman and Nicobar Islands have survived the tidal wave safely. Also the wild animals have properly understood the warning signals; in the national park on Sri Lanka has been found no a single dead animal, however, unfortunately against it, several

tourists had died. What does that mean? Our collective long-time-memory has been damaged by our modern civilization so strongly that we no longer can properly interpret the warning signals of Nature. Also through the incomplete basic education of the poor people, that must live in the endangered regions, maybe even most of them have never heard about a tsunami. But also the responsible, the local administrators and the hotel managers, had seemingly had no notion of the potential threat; many of them have lost their own family-members in the catastrophe.

In this context, the very fact that our species has saved over the last seven thousand years - in all our sagas and sacred books around the world - a lively recollection of a deluge catastrophe, means nothing other than that ancient catastrophe was simply an unbelievable horror for all then living people. The size of the tsunamis 6818 years ago had had to be much, much bigger than any other wave that had threatened us after this time. In countenance of the repeatedly filmed devastation through the waves of 26th December 2004 around the Indian Ocean, and also after the similarly tragic event of 11 March 2011 in Japan, when the waves were "only" several meters high, we can hardly imagine some hundredfold bigger waves after a multiple cosmic impact, almost simultaneously running across all oceans of the Earth.

However, we have to accept and remember in all our considerations concerning the evolution of life of our own species that such cosmic impacts (or more correctly, cosmic collisions) had took place in the course of all the time during the recent 700 millions of years of the Earth's history, since the ice-free oceans had filled all basins of the

Earth's crust. The waters of those floods, accompanying all following cosmic impacts of the levels 7, 6, and 5, had each time to have erased out all the contemporary higher forms of the emerging life, not only along the coast, but also deeply in the land inside, doing their damaging work practically immediately and ultimately.

Before going into the details of the “pre-biblical” flood during the recent cosmic quantum jump of the level 5, let us thus analyze the higher levels of the quantum jumps of the Cosmic Hierarchy of the Solar System. We can define this Cosmic Hierarchy (compare “*Our illusory physics*”) as an energetic arrangement of the cosmic objects in our nearest and more distant cosmic environment into a hierarchically ordered system.

From the very beginning of my work on the quantum structure of our Solar System and its Cosmic Hierarchy, more than twenty five years ago, I always have used the best then available observational data concerning such cosmic structures in which our Solar System seems to be embedded. Many of the new data were immediately breaking the old paradigm of the traditional astrophysics. The first of those old-paradigm breaking observations was the notion of the SN 1987A supernova (*compare Wikipedia, for example*) in the Large Magellanic Cloud. Its distance from Earth was estimated to be approximately 168 thousand light-years, close enough to be visible to the naked eye (*unfortunately for myself, possible to watch from the southern hemisphere only*). The light from the new supernova reached Earth on February 23, 1987. It was the first opportunity for modern astronomers to see a supernova up close and observations have provided much insight into supernovae. But seemingly nobody else has

even assumed the real deep importance of the discovery. Nevertheless, I immediately knew, the Milky Way can never be as large a galaxy as we were told till then, because it was the Magellanic Cloud which had to be super-ordered to the Milky Way, and not *vice versa* (compare the third column of the table below).

The the newly discovered versus previously supposed levels of the Cosmic-Hierarchy of our Solar System

L	My proposal now (2014)	My original object (till ~1987)	Radius [ULy]
9	Sloan Great Attractor	Coma Supercluster	$3585 \cdot 10^9$
8	Great Attractor	Hydra Supercluster	$295.2 \cdot 10^9$
7	Virgo Cluster of Galaxies	Virgo Cluster of Galaxies	$24.30 \cdot 10^9$
6	Andromeda Group of Galaxies	Andromeda Group of Galaxies	$2.002 \cdot 10^9$
5	Magellan Cloud	Magellan Cloud	164878
4	Omega Centauri Cluster	Milky Way Galaxy	13578.3
3	Orion Association	Orion Minigalaxy	1118.22
2	Ursa Major Moving Group	Local Group of Stars	92.0896
1	Solar System	Solar System	7.58390
0	Proto-Sun	Proto-Sun	0.62456

Notes:

- a) The scaling factor is 12.1428, according to the Cosmic Hierarchy definition of the Unified Physics (*for more details compare “Our illusory physics”, or the “Naturics” blog*);
- b) The Universal Lightyear (ULy) is a distance light is traveling

with the universal speed of the Unified Physics (*being four orders of magnitude slower than the traditionally considered speed of light in vacuum; however, the distances expressed in light years are independent of the actual value of the speed of light; our values are thus compatible with observations*).

As we see in the third column of the table, our quantized model orders the Large Magellanic Cloud on the level of the Sun's Cosmic Hierarchy direct above the Milky Way (in contrast to the hitherto assumed order) and immediately below the Andromeda Group of galaxies.

The seemingly best known of all steps of our hierarchy was our so-called "mother" galaxy, the Milky Way. There are, however, two other levels of this hierarchy, intermediate between the Solar System and the Milky Way. First of them is the "Local Group" of stars, the Sun's direct stellar neighborhood. This "Local Group" of stars is a satellite of the next higher level of the hierarchy, a local cluster of stars, called Orion-Spur that stretches between the Sagittarius and Perseus arms of the (supposed) Milky Way. I referred to this level of the Cosmic Hierarchy as our local "Minigalaxy of Orion". Only next comes the level of the Milky Way.

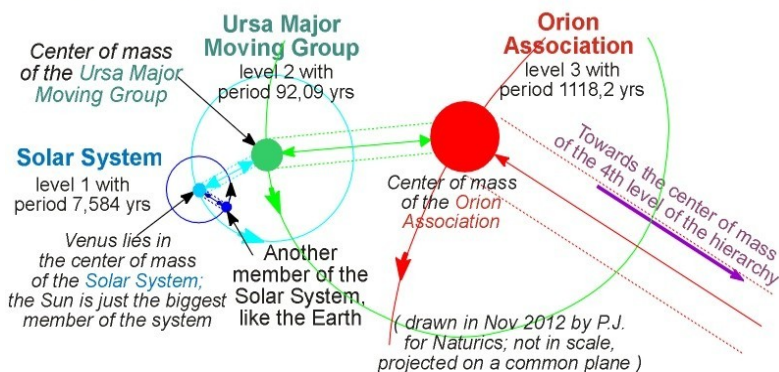
However, the new discoveries, after 1987, have actualized also some of the higher hierarchy levels. We are lucky today to live in a very exciting era of the observational revolution caused by the technological development of better and better astrophysical equipment. The revolution begun with the Voyager Mission to the outer planets of our Solar System (a mission launched 1977), followed next by the Space Hubble Telescope (positioned on its orbit in years 1990-1993), and completed with some dozens other devices working today. Thanks to those new observations,

our knowledge about our cosmic home is rapidly growing and refrains from some old concepts, as shown in the second column of the table above.

The all known results of observations, as the interstellar gas distribution and velocities, Magellanic Stream of gas sweeping away from the Large Magellanic Cloud towards the Andromeda Group, the exactly “measured” distances of our Sun from the Large Magellanic Cloud and Andromeda, and the finally accepted superimposed role of the Andromeda galaxy in the so-called Local Group of galaxies, underpin our proposed hierarchical order.

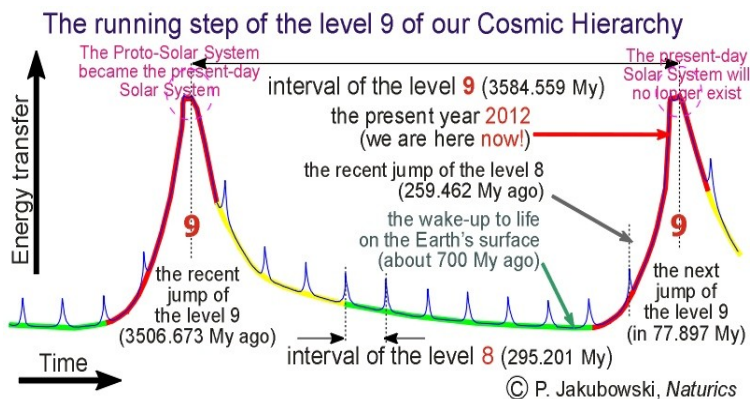
Using the data of the above table we can imagine the first three levels of our Cosmic Hierarchy as presented below.

Energy “bridges” between three levels of our Cosmic Hierarchy

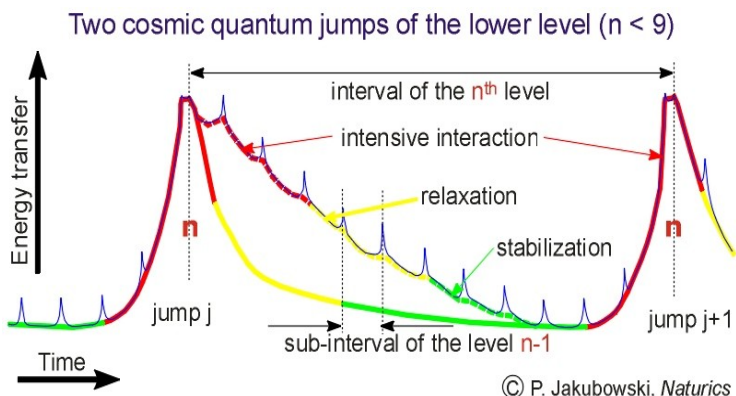


In my previous book, “*Our illusory physics*”, I have discussed that the whole Cosmic Hierarchy is an example of the natural systems behaving themselves in accordance with the undisturbed motion law, or simply speaking, of the systems in which the (necessary!) mutual disturbance is minimal. The minimal disturbance optimizes a chance

for a higher forms of life to develop in a quiet phases between the cosmic quantum jumps. This optimum is always reachable in a spiral arrangement of the involved elements based on the “golden ratio”, the absolute structural favorite in the whole Nature. The energy transfer reaching Earth (as a member of the Solar System, of course), during the recent 4.5 milliard years can be imagined as shown in the picture below.



If we consult the Cosmic Scale of Time resulting from our definition of the Cosmic Hierarchy (*as given in Appendix*), we see that our Solar System is “living” today in a very last fragment of the present period of the level 9, as shown with the red arrow in the picture above. It is the reason why any similar diagram of the energy transfer during the actually running periods of the level lower than 9 should be slightly modified, as shown below. It is because the global energy transfer has no more a chance to reach its relaxation phase already after two or three intervals of the lower level; the global hot phase of the level 9 has already been activated since the beginning of the Paleozoic Era 555 million years ago.



Let us note in the table above that the “object” (just a conglomeration of different stars and cosmic clouds), which we usually have called Milky Way, traditionally considered as our “mother” galaxy, is very probably not a galaxy at all. In my opinion, it is just a cross-section of the energy bridge between our present point of view and the highest observable center of the level 9.

So we are looking with our telescopes almost directly along the mighty energetic “arm” (or bridge) bonding 8th level of our hierarchy (the so-called Great Attractor) with its center of rotation along the center of mass of the 9th level. A sensational discovery (by Sloan Project; *consult Wikipedia*) of the largest structure ever found in the directly observable part of our Universe, with exactly such dimension as shown in the table above (about 3.5 Mld light-years in size), has been announced in January 2013. Two further large projects being able to observationally confirm the correctness of the Cosmic-Hierarchy idea are also running today and can be followed on Internet.

We have to wait still one or two more years to the end of

the observational work by the group of Steven Majewski (from the University of Virginia), until our supposition concerning the Milky Way can be confirmed. This project called APOGEE-2 (Apache Point Observatory Galaxy Evolution Experiment 2) will explore the formation history of the Milky Way using the spectral record provided by hundreds of thousands of individual stars belonging (supposedly) to the Milky Way.

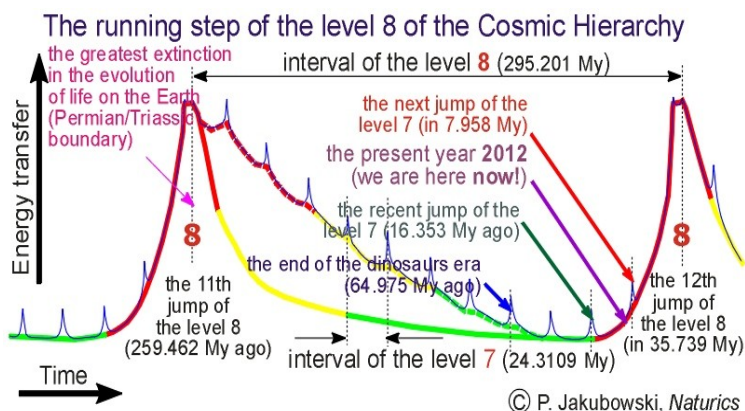
One further space observatory (Gaia galaxy-mapper) able to confirm the new arrangement in our Cosmic Hierarchy has been successfully launched on 19th December 2013. The Gaia mission has been developed to determine the position and velocity of a billion stars, creating the largest and most precise 3D map of the (traditionally assumed) Milky Way.

And we should not forget the mission of the spacecraft “*New Horizons*”, being able to discover the additional mass of millions of remnants of the *Andrea-Star*, still forming a companion mass of our Sun. The spacecraft is going to visit Pluto region very soon, in 2015.

The following series of diagrams should take us back to our consideration of the “pre-biblical” flood in comparison with the global energy transfer to the Earth as a member of our Solar System and its Cosmic Hierarchy. *(Please note that the actual date in those pictures has been given as 2012 and adjusted to the beginning of our global civilization in 1908, and not 1905, as I prefer to use today – in 2014; I hope it is not a problem by studying them, because we have to understand, we are studying a complete history of our Earth, since the Moon formation till the present day, and this “present day” is moving*

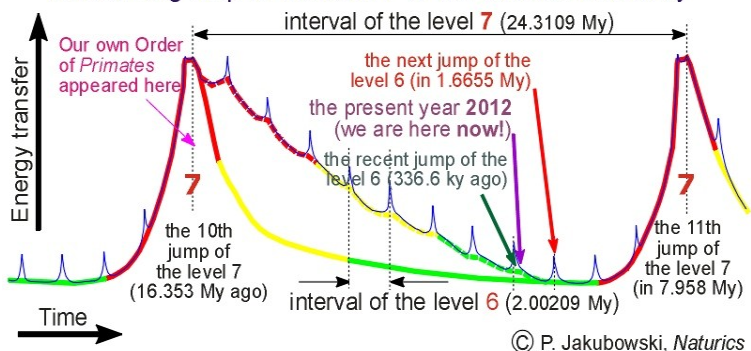
every day further and further; the most actual years, if needed, can be found in a numerical form in Appendix 3.)

The presently running period of the level 8 has started with the greatest mass extinction the Earth had ever met, because it was the only cosmic quantum jump (259.462 million years ago) of this high level since the life has begun to conquer the land. This extinction has provoked the geophysicists to set the Permian-Triassic boundary (and even the boundary between two eras, Paleozoic and Mesozoic) exactly at this event. However, from the geologic point of view (*compare the last but one picture above*), it was just the end of the eleventh sub-period of the level 8 since the Moon formation.

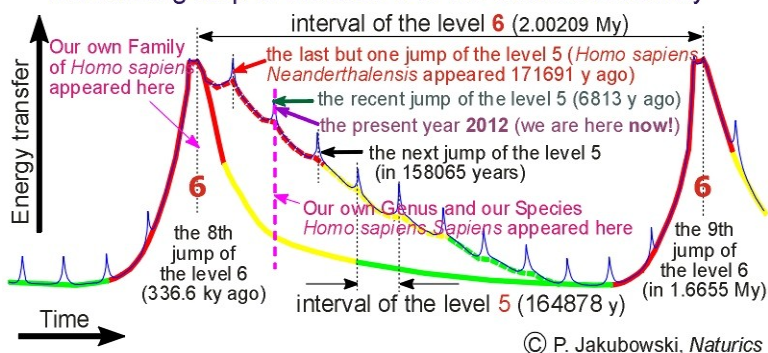


The presently running period of the level 7 of the above picture is presented here below in its detailed version, where we can see, among others, that our Order *Primates* has still almost 8 million years to live on Earth.

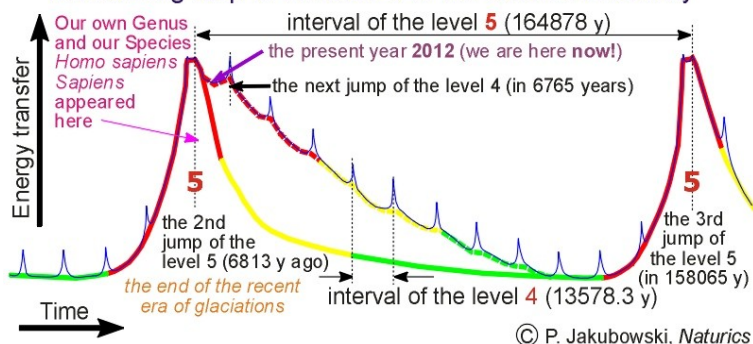
The running step of the level 7 of the Cosmic Hierarchy



The running step of the level 6 of the Cosmic Hierarchy



The running step of the level 5 of the Cosmic Hierarchy

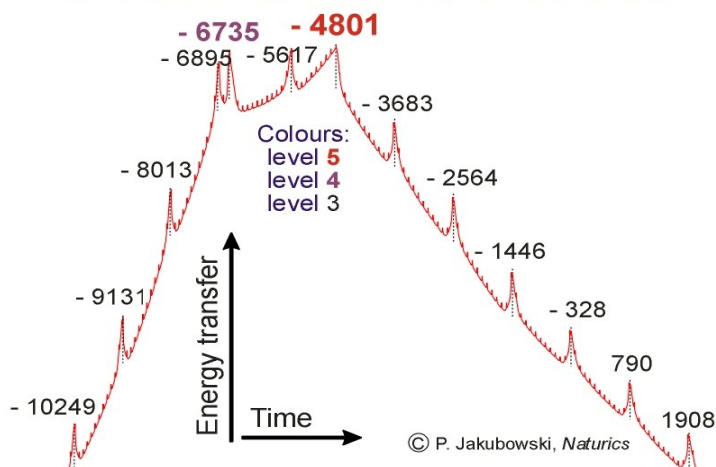


There also can be identified the life periods of the family of *Australopithecus*, of *Homo Erectus*, and of *Homo Sapiens*. The latter of them is elongated into details in the next diagram and the split into our own Genus *Homo Sapiens Sapiens* in the last of the three diagrams above. This was already that split which was accompanied by the “pre-biblical” flood event we are looking for.

If we are going to analyze the detailed happenings during this specific cosmic quantum jump, however, we have to extend the scale of time still many times more than in the pictures above. Let us consider the following one to note all involved cosmic quantum jumps with levels between 5 and 2, because first the length of the period of level 2 allows us to compare it with the life expectation of a single human being (*note that the cosmic jumps of the level 2 are marked but not numbered on this diagram*).

When using this elongated scale of time we also have an opportunity to compare our theoretical diagrams with precise observations. Our energy-transfer diagrams can also be read out as diagrams directly demonstrating the relative (*important to remember: relative*) changes of the average temperature of the Earth's surface. It is because a temperature measured at any point means nothing other than the energy density at this point. The energy transfer of the level 5 has still delivered a tremendous amount of energy to the Earth's surface, so that it was relatively easy to measure it in the icy “library” of the Arctic and Antarctic glaciers.

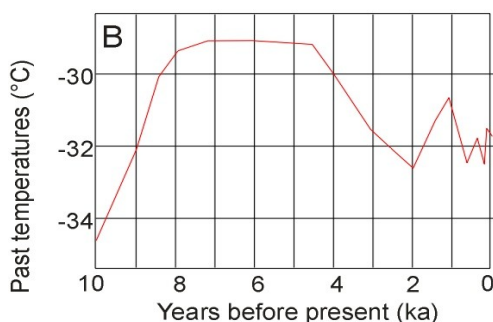
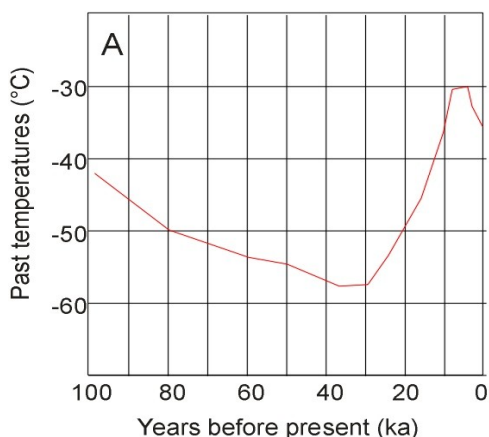
The global energy transfer to the Earth during the recent cosmic quantum jump of the level **5** (4801 years B.C.E.)



The best measurements of this kind, I have found in the scientific literature of the recent decades, was done by Dahl-Jensen *et al.*, which I have redrawn from their paper cited here below. The long-term part A of their results compares with the corresponding part of our last but one diagram (of the level 6) presenting the life period of the genus of the Neanderthals, between 172 and 6.8 thousand years ago. The short-term part B of the observational results (just an enlargement of the right side of the part A) perfectly correlates with our above enlargement of the recent cosmic quantum jump of level 5.

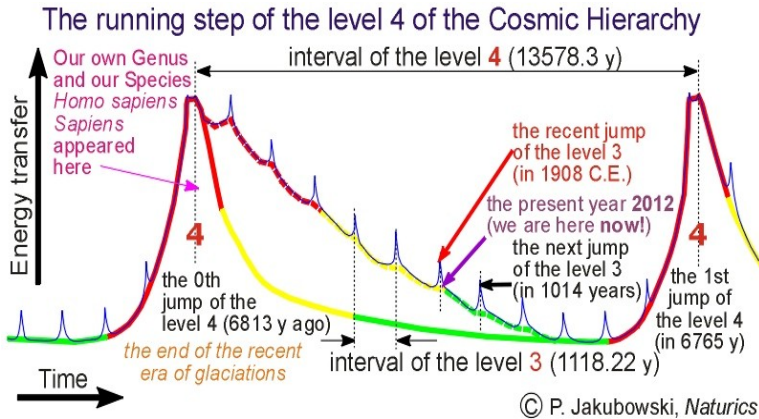
As we see, the correlation of the long-term part A of the observed temperature change and also of the short-term part B, is excellent indeed, though the used method accuracy had not allowed to discover the (energetically) much smaller jumps of the levels below 4.

Past Temperatures Directly
from the Greenland Ice Sheet
D. Dahl-Jensen,* K. Mosegaard, N. Gundestrup, G. D. Clow,
S. J. Johnsen, A. W. Hansen, N. Balling
9 OCTOBER 1998 VOL 282 SCIENCE www.sciencemag.org
pp. 268-271



Now, let us note that the lowest diagram on page 98 demonstrates also the beginning of the present jump of the level 4; our species is the first species of our Genus *Homo Sapiens Sapiens*. Therefore, we are forced to add to the

name of our species some additional mark differentiating it from the genus name. I am using a preliminary name *Homo Sapiens Sapiens* “modernus”. As you have probably noted, the diagram below is the same as the first one of Chapter 2 of the present book.



Now, having explained the right theory, strengthened by diligent observations, we are able to go back to Colin Wilson's book and to compare his point of view upon the “pre-biblical” flood with ours. But what is still more important for us today, is to understand the consequences of this really exceptional happening during our history of life since the beginning of the Neanderthals “era” 172 thousand years ago.

Colin Wilson begins his Chapter 4 entitled “*The Flood*” with considerations by Arthur Posnansky,

“who spent his life studying the ruins, (and) concluded, around the turn of the twentieth century, that Tiahuanaco was founded about 15,000 BC. ...

What has happened was obvious. At some time in

the remote past, an immense harbor has been built, fronting on Lake Titicaca, the highest lake in the world, 12,500 feet above sea level and covering more than three thousand square miles. ...

Then we learn that Lake Titicaca is full of sea creatures who have adapted to fresh water, and the obvious explanation begins to dawn. It must have been on sea level when some great convulsion raised the Andes 12,500 feet in the air.

And when was that? Well clearly, it must have been in historical times, not a million or so years ago, because human beings built the harbor.

In fact, Posnansky suggests the date when the catastrophe happened: around the 11th millennium BC. Say 11,000.”

Sorry, Colin, but you repeat the Posnansky's mistake. The Lake Titicaca has been lifted “in the air”. And the harbor on its coast has been built by members of an ancient civilization of gigantic Neanderthals surely living before the “biblical” flood. These two ideas seem to be correct. But it does not mean that the uplifting of the lake (together with Andes) had to be contemporary with the construction of the harbor. I prefer here a quite opposite conclusion.

The Andes are still growing, since millions of years, as a result of the plate tectonics processes, caused by the subduction of the Pacific oceanic crust beneath the South American plate. Lake Titicaca is probably a remnant of some much larger ancient sea. Similarly Caspian Sea, Aral Sea, and Black Sea are remnants of the ancient Paratethys Sea. When one of the last civilizations of the Neanderthals was observing that the Andes are still growing, probably one of their priest-kings or shamans came with the idea

that a god responsible for such things as mountains growing will change his decision, allowing the Lake Titicaca to go down to the sea level again, if the people will build a splendid harbor on the lake coast. And they had build it. But the god had of course no idea of the dreams of human tricky rulers. We knows their tricky behavior also from the ancient Egypt. The harbor is still waiting when Andes will sink again.

In the next part of his book, Colin Wilson describes the discovery of “the epic about a hero named Gilgamesh. ... This epic in twelve tablets told the story of the young hero Gilgamesh, king of Uruk (Erech, the capital of Sumeria, also called Sumer).” On page 70 of Wilson's book, we read:

“... he (Gilgamesh) sets out in quest of immortality – for although his mother is a goddess, he has inherited mortality from his father, who is a priest. After a long journey he finds Uta Napishtim, the Babylonian Noah, to whom the gods have granted eternal life. And it is then, in the eleventh tablet, that Uta Napishtim tells him the story of the Flood – of how the gods decided to destroy the mankind, but chose Uta Napishtim to survive, because he was virtuous. Like Noah, he was told to build a ship that is six stories high, and to make it waterproof with pitch, then to take aboard all his family and servants, as well as each of the beasts of the field. ...

Although this story of Gilgamesh was probably sung by minstrels before 3000 BC – long before it was written down – it was translated into many middle eastern languages and is known in several versions.

The Gilgamesh epic made George Smith famous – a celebrity that would be cut short three years later when he died of a virus contracted in Aleppo on his way to Mesopotamia. By that time he had discovered more tablets in Assurbanipal's library with an account of the creation of the world, whose similarities to the story in Genesis were as striking as those of the Flood story.

For this was what created the worldwide interest: the notion that the Bible stories might simply be a later version of Sumerian originals. The believers could feel that these stories brought the truth of the Bible closer to the Victorian sitting room, while the skeptics (or, as they preferred to call themselves in the Victorian age, agnostics) could classify the Bible and *The Epic of Gilgamesh* together as ancient fictions. Smith made everybody happy.”

And on page 72 we read about Sumerians:

“For the mound at al Muqayyar was, in fact, Ur of the Chaldees, the legendary home of the patriarch Abraham, and the capital city of the Sumerians, who had founded the first great civilization in the Middle East some time around 4000 BC.

Who were these Sumerians, who invented writing nearly six thousand years ago? No one knows – their origin is a complete mystery. Their language is unlike any other language in the Middle East, neither Indo-European nor Semitic.”

Let us note that the example of “*The Epic of Gilgamesh*”, with its Flood story, and the mystery of the Sumerian civilization, both fit exactly to the times of the first civilization after the cosmic quantum jump, which I have

sub-period, like the Old-Egypt civilization between 5700 and 4600 years ago. And we all not only remember the dramatic stories from the war time, we know the economic, political, and first of all, the demographic damage of our all life. There are already many generations of young peoples being born into this traumatized world of today, being even not able to see that their “reality” is still far away from the “war-less” normality before the cosmic quantum jump of the level 3. There are maybe a milliard families all over the world, and I would say that only very few of them has not one or more members being a direct offspring of the war-survivors. The stories about the two wars, including the anti-colonialism and anti-slavery fights, and the emancipatory movements, are still very fresh and woebegone.



How much more difficult it had to be for the “Atlantis survivors”, to imagine for themselves that their life conditions were shifted far away from the paradise reality that still existed shortly before the “Great” Flood. Let us try to consider this shift of the life conditions and their influence on the individual life of the survivors in the next Chapter.

5

The lost Paradise

Our knowledge of the true physical conditions going along with the recent cosmic quantum jump of the level 5, that culminated 6818 years ago (4804 BCE) is still so much fragmentary that I do not know any single scientific work which would be a proper reference to that point. So we have to make the detailed analysis by ourselves, using such splendid, though not strictly scientific books like those by Colin Wilson and Patrick Chouinard (mentioned earlier).

Let us begin with a comparison of the ancient situation to a much later occurrence, although not so intense a happening. In that case we are able to compare the recorded details with the strength of the natural “catastrophe”. Such a relatively well understood happening has been considered by Colin Wilson in sixth chapter of his book. In this chapter, entitled “*The Mystery of the Maya*”, he considers the reason for the decline and final breakup of the Maya civilization. On pages 120 and 121 Wilson writes:

“From about 50 BC and for the first six centuries of the Christian era, this giant sacred city (*Teotihuacan*) north of Tenochtitlan (now New Mexico) dominated the life of Mexico. The Aztecs called it 'the city where the gods were made'.

When Cortes came there in July 1520, he was fleeing from vengeful Aztecs, and in this ruined city they encountered still more of them. The Spaniards won the battle, in spite of odds of a hundred to one, by making for a man they perceived as the chief, and killing him; the rest fled.

Teotihuacan was a dead city, covered with giant heaps of earth. Cortes thought that the mounds were tombs and so called the central road 'the Way of the Dead'. In the 1880s, an archaeologist named Claude Joseph de Charnay made the interesting observation that the faces portrayed in its pottery included Caucasian, Greek, Chinese, Japanese, and Negro. There were even Semitic types. It seemed that Teotihuacan had once been a genuinely cosmopolitan center.

The story of how this great city became an earth-covered ruin has only just started to be understood by archaeologists.

Around the year AD 530, the earth was subjected to some devastating climatic catastrophe. ...

What caused this immense catastrophe that, in effect, inaugurated the Dark Ages, we still do not know. It may have been a volcanic explosion, in which case Krakatoa in the Sunda Straits is the chief suspect. It would erupt at the end of August 1883, and the sea poured into the vortex of boiling lava, causing an explosion estimated to have been equal to a million H bombs. The detonation was heard three thousand miles away, and the ensuing tidal wave was over a hundred feet high and killed thirty-six thousand people. The dust cloud that spread all over the earth reduced the sun's radiation

by 10 percent.

Yet its effect lasted only three years, not the three decades of the 532 AD event. So it seems more probable that the cause was an asteroid impact, like the one that destroyed the dinosaurs sixty-five million years ago.

The result was a drought that caused failure of the harvest for year after year. And for the rulers of Teotihuacan, this was a disaster, for it was their job, and that of their priests, to guarantee rainfall and a good harvest. None of these Central American civilizations were remotely democratic; all had an inflexible power structure, with the god king at the top, then the nobles, then the priests. At the bottom were the workers, rigidly confined to their own place. Their feeling about their masters was one of respect mingled with fear; when they began to starve, fear turned to hatred.

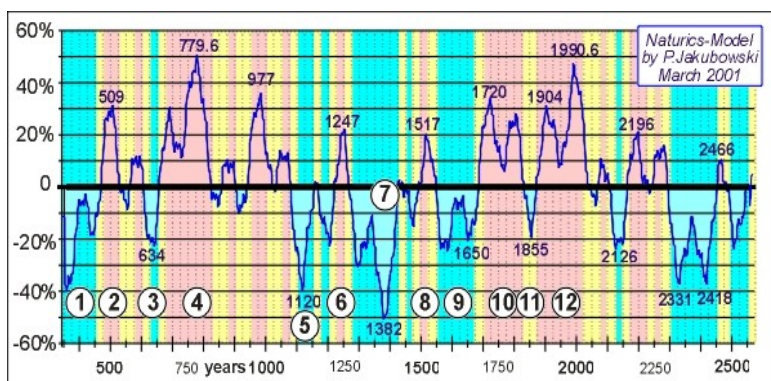
When the revolt came, the mobs surged into the temples and palaces and hacked the priests and nobles to bits. They took pleasure in smashing their skulls, then dismembering the bodies and scattering the limbs in other rooms and courtyards. Then they set fire to the temples, built of wood and mud brick.

Even sacred statues were smashed. One two-foot high statue of a goddess was scattered over an 8,600 square foot area. These starving men were expressing contempt for the goddess who had failed to send rain. If these people had possessed the power, they would have torn the whole city to the ground; as it was, wrecking squads tore down walls, overthrew columns, and burned whatever would burn. Compared to this, the barbarian

destruction of Rome was half-hearted.

We now know that this happened around 600 AD, not a century later, as historians have always assumed."

And it is great, because we now also know that the climate change alone, beginning 509 CE and ending around 560 CE, was responsible for the devastating "drought that caused failure of the harvest for year after year". It can be seen in the following diagram (being a part of our "climatic" Appendix to the previous book, "*Our illusory physics*").



On the other hand, Wilson's suggestion, that some cosmic impact comparable with that one "that destroyed the dinosaurs sixty-five million years ago" could also be responsible for the Maya extinction, is completely unrealistic. The dinosaurs-event was an impact of the level 7 of the Cosmic Hierarchy, and the recent event of this level had happened 16.353 million years ago (*compare the time table in Appendix 3*). The only cosmic influence of the level 3 (probably without an impact at all, or at most such one "harmless" as the Tunguska-event of 1908) had

caused a climate warming around 787 CE being similar to our modern climate warming around 1990 CE (*what can be also seen in the diagram above*).

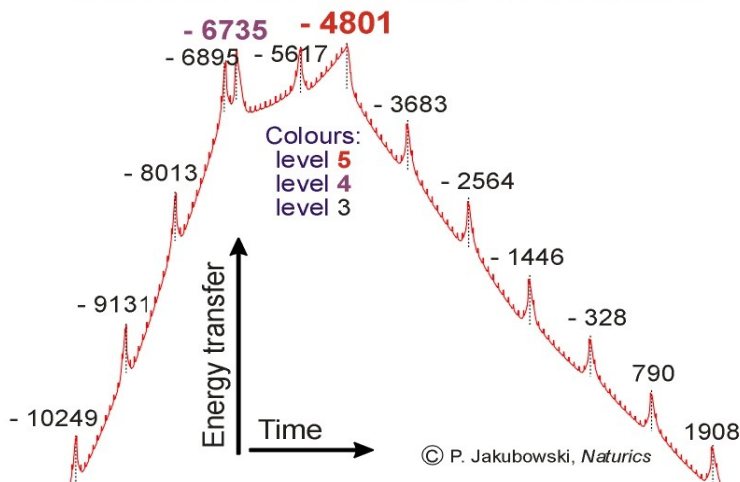
As we see, in the case of “Maya catastrophe” we do not need to take into consideration any cosmic influence other than the relatively small climatic fluctuation of that stream of the cosmic energy which had culminated in 509 CE. Probably, there were no asteroids involved at all in the declination of the Maya civilization. Nevertheless, the social consequences of this relatively harmless climate change was catastrophic for this highly developed civilization indeed.

And now we begin to understand that a corresponding catastrophe following the cosmic quantum jump of level 5, at which the cosmic impacts of many cosmic projectiles at once has been confirmed through glaciology and oceanology, was an exceptional point in our evolution indeed. These extremely deadly happenings, with their disease risks for the surviving people and animals, together with climatic consequences for the plants and for biological environment, had had to be much more devastating to all then existing civilizations around the contemporary world than any other event since the first Neanderthals appeared on Earth.

Let us analyze the graphical timescale of this cosmic quantum jump on the following picture once more. (*In what follows, I am directly referring to the dates of this picture, though we have to keep in mind that the actually chosen dates should be probably shifted three years into the past, for example, from 1908 to 1905*).

On the left side of the picture below we see three last (of twelve) periods of 1118.22 years of the life expectation of civilizations belonging to the species of *Regular Atlants* (Neanderthals). Probably all three periods were still a part of the “paradise era” on Earth, the time called in Greek mythology and legend “Golden Age”.

The global energy transfer to the Earth during the recent cosmic quantum jump of the level **5** (4801 years B.C.E.)



As I have already discussed in “*Our illusory physics*”, all people living then on Earth were still members of the Genus *Homo Sapiens Neanderthalensis*, or simply put, these people still were Neanderthals. However, they were already giants (let us think of 20 or even more feet tall human beings). And surely they were long-living being in comparison with even our present average life expectation still below a hundred years. Comparing with the present long living tortoises, we can surely suppose that an average age of the members of those last civilizations of *Regular Atlants* was three hundred years or even longer.

However, the picture also evidently shows that the event of level 4 (around 6735 BCE), and the about hundred times more intense happenings of level 5 (around 4801 BCE), had definitively finished the “paradise era”. Nevertheless, that part of the new period of time, after the event of level 4, but prior to that of level 5, the period between 6735 BCE and 4801 BCE, belonging to the ultimately last species of the Neanderthals (which I have called the *Evolutionary Atlants*; compare the Appendix 2), was still preceding the true “bottleneck” of our evolution. Therefore it coincides well with the next of “Ages of Man” called in Greek mythology “Silver Age”. Men in the Silver age lived for one hundred years under the dominion of their mothers. They lived only a short time as grown adults, and spent that time in strife with one another. According to Greek legend, during this Age men refused to worship the gods and Zeus destroyed them for their impiety. The cosmic quantum jump of level 5 came to fulfill this “divine task”, around 4801 years ago.

All the remaining “Ages of Man”, the Bronze Age, the Heroic Age, and the Iron Age (the present age of decline), are already the periods of life of our own Genus *Homo Sapiens Sapiens*. The Bronze Age came to an end with the flood of Greek Deucalion, or the Biblical Noah, or their Mesopotamian counterpart Uta Napishtim, around 3683 BCE. This flood was a local event in Mesopotamian (as has been widely described in Wilson's book) and not to compare with the “Great” worldwide flood being a result of the cosmic quantum jump of level 5, 1118 years before. The Heroic Age means probably the two next civilizations (compare also Appendix 2), contemporary with the Old Egypt and New Egypt. In this period “men lived with noble demigods and heroes”. It was the heroes of this Age

who fought at Thebes and Troy. The Iron Age (the present-day reality to Hesiod, but we can consider it lasting till today) is a time (between 1446 BCE and now)

“during which humans live an existence of toil and misery. Children dishonor their parents, brother fights with brother and the social contract between guest and host is forgotten. During this age might makes right, and bad men use lies to be thought good. At the height of this age, humans no longer feel shame or indignation at wrongdoing; babies will be born with gray hair and the gods will have completely forsaken humanity: 'there will be no help against evil'."

Let us note some interesting characteristics of the ancient life during these different “Ages of Man”, cited after Colin Wilson, Patrick Chouinard, and Wikipedia.

In Wikipedia (on Golden Age), we read that there are analogous concepts in the religious and philosophical traditions of the South Asian subcontinent, in the ancient Middle East and throughout the ancient world. For example, the Vedic or ancient Hindu culture saw history as cyclical, composed of Yugas with alternating Dark and Golden Ages. The Krita or Satya Yuga (Golden Age), Treta Yuga (Silver Age), Dwapara (Bronze Age), and Kali Yuga (Iron Age), correspond to the four Greek ages. The Indian Yugas are differentiated not according to metals, but according to quality depicted as colors, whereby the color white is the purest quality and belongs to the first, ideal age. After the world fall at the end of the fourth, worst age (the Kali Yuga), the cycle should be continued, eventually culminating in a new Golden Age.

According to Wikipedia we read:

" 'Golden Age' denotes a period of primordial peace, harmony, stability, and prosperity. During this age peace and harmony prevailed, humans did not have to work to feed themselves, for the earth provided food in abundance. They lived to a very old age with a youthful appearance, eventually dying peacefully, with spirits living on as 'guardians'.

...

The Hindus make reference to at least two overlapping yuga cycles, driven by celestial motions, that affect conditions on earth. One cycle, the Maha Yuga, is millions of years in length and therefore difficult to relate to human history or events. The shorter yuga cycle lasts 24,000 years, including an ascending age of 12,000 years (one daiva yuga) and a descending age of 12,000 years (*note the similarity of these values to our life expectation of 12 consecutive civilizations of 1118 years each, giving in summary the life expectation of a species of 13,578 years; P.J.*), for a total equal to one precession of the equinox (*all those cycles are simply the cycles of the Cosmic Hierarchy of our Solar System, not necessarily bound to the apparent precession of equinox; P.J.*). Both cycles are composed of the four eras, and the Satya Yuga is the first and the most significant age in each cycle. This Golden Age era lasts 7,200 years (out of the 12,000 years in the ascending period) and another 7,200 years (out of 12,000 years in the descending period) in the precessional cycle (*note once more the similarity of the duration of the Golden Age of 14,400 – being twice 7,200 – with*

our life cycle of a species of 13,578 years; P.J.). Knowledge, meditation, and communion with Spirit hold special importance in this era. The average life expectancy of a human being in Satya Yuga is believed to be about 400 years (note this number; P.J.). During Satya Yuga, most people engage only in good, sublime deeds and mankind lives in harmony with the earth. Ashrams become devoid of wickedness and deceit. Natyam (such as Bharatanatyam), according to Natya Shastra, did not exist in the Satya Yuga 'because it was the time when all people were happy'."

The noted similarity of the cycles length between the ancient reports and our quantized cosmic scale of time is still more astounding, when we add also the another Indian interpretation of the past ages, the Brahma Kumaris (ibid):

"The Brahma Kumaris and Prajapita Brahma Kumaris make reference to five yuga in a single cycle of 5,000 years in which the Golden Age, or Satya yuga, is the first and lasts for 1,250 years. Three of the remaining four; Thretha Yuga (Silver Age), Dwarpar Yuga (Copper Age) and Kali Yuga (Iron Age), also last for 1,250 years each. The fifth age, Sangum Yuga (Confluence Age), is given to the last 100 years of the fourth age and represents the period when the Iron Age is destroyed and the next Golden Age is created."

The difference between this ancient estimation of the length of an "Age" of 1250 years and our life expectation of a singular civilization of 1118 years is vanishing small indeed. We have to understand that what remains - first of all in a spoken tradition - after many generations of "story

tellers”, is an emotional valuation of the positive or negative impression concerning the told about period of time and the similarity of the length of this period to some naturally felt cosmic cycle. And those cosmic cycles are the same for us today as for the Neanderthals and all their succession in the first civilization of our own species (this means the first few generations of the “story-tellers”).

What we have graphically and numerical presented in our last diagram above, has been already known for thousands of years, since the “Great” Flood catastrophe: the humans had lost their paradise and live since then in a continuous degradation of the human conditions. In Wikipedia (on Ages of Man), we read:

“Two classical authors (Hesiod and Ovid) in particular offer accounts of the successive ages of humanity, which tend to progress from an original, long-gone age in which humans enjoyed a nearly divine existence to the current age of the writer, in which humans are beset by innumerable pains and evils. In the two accounts that survive from ancient Greece and Rome, this degradation of the human condition over time is indicated symbolically with metals of successively decreasing value.”

We can say Hesiod and Ovid were the first “story-tellers” in the western world, whose stories became known to us also in a written form. Nevertheless, the basic contents of their stories has to be taken as seriously as it was done during the four thousands of years before they have lived in ancient Greece.

So far for the myths and legends. But what had really happened during the cosmic quantum jump around 6800

years ago, and with what physical and mental consequences for the survived individuals? This question now will be answered. I think, we are prepared well enough to go deeper into the details of the final extinction of the Genus *Homo Sapiens Neanderthalensis* and the appearance of our Genus *Homo Sapiens Sapiens*, 6818 years ago.

The Neanderthals of the Golden Age, the members of the species of *Regular Atlants*, were long-living giants, good and noble human beings, with an extraordinary spiritual life, using their highly developed cosmology and other knowledge for a peaceful solving of all their problems. The only problem they were not able to solve was the running out time of their own existence on Earth as a genus. The end of their cosmic time was going to the end. And they surely were aware about the non-reversibility of their destiny. It is imaginable that they have built some megalithic places for to save their knowledge for the next generations.

The first act of the cosmic jump was that of the level 4, 6735 BCE. It is possible that already the cosmic impacts of that smaller level were extraordinarily intense. For sure, however, they were strong enough for to finish the Golden Age and damage the “paradise on Earth”. The cosmic impacts of the order 3, like the Tunguska-event in summer 1908, have been estimated to be about 1,000 times as powerful as the bomb dropped on Hiroshima. The events of each higher level release about a hundred times more energy. So even the devastating energy of the events of level 4 should be compared with the energy of 100,000 such bombs; that of level 5 – with ten millions of such bombs.

Let us recall the consequences of the Chernobyl reactor catastrophe for the human health, especially bodies deformations and mental damage of all newborn children after the parents were exposed to the enormous energy “consumption” (so-called radioactive radiation). Of course, a similar tragedy was the destiny of the Hiroshima and Nagasaki survivors. Having these pictures in mind, we have now to imagine the similar consequences for the peaceful giants becoming not only the witnesses but being really involved with their bodies and minds into a release of energy of ten thousands of Hiroshima bombs at once, all over the world. There was not a niche, nor a shelter, maybe with an exception of the deepest caves, far away from the seashore, where the people had a chance to survive. We have to remember that it was the time of quickly rising ocean level, of the order of a centimeter year after year. The old shorelines, with all cities were steadily coming deeper and deeper under water. The earthquakes, earth-slides, volcanic eruptions, and tsunamis of enormous high were growing in number and intensity.

Every next generation of children, after 6735 BCE, could only exceptionally “contain” the long-living giants again. It was the reason, why the Silver-Age people, the members of the very last species of the Neanderthals, which I call the *Evolutionary Atlants* (compare *Appendix 2* again), had to be supervised by their mothers “for one hundred years”, and why “they lived only a short time as grown adults, and spent that time in strife with one another.” Even a peaceful life in such a civilization was surely no longer the previous paradise on Earth. Nevertheless, we have also to assume that some of the newborn children in the life period of these *Evolutionary Atlants* were already born with quite

new “mutations” of their bodies and minds. They were the first forerunners of the new genus of *Homo Sapiens Sapiens*. When two of them built a stable couple and gave birth to their own children, the really new “race” of human beings appeared on Earth. But the worst times were still awaiting them all, around 4801 BCE.

Now all the previous catastrophes seemed to come at once. Every civilization still trying to live at the seashore has become erased in the course of minutes. Not unlike in Pompeii, where the victims had been covered (and their bodies conserved) with thick layers of volcanic ash, the sea waters had no conserving properties, therefore even the smallest bones of the flooded civilizations were lost relatively soon after the happenings. Only those larger groups of people living in mountain-, or jungle, or desert regions, and being fortunate to escape any direct hit by an exploding comet or some other "projectiles", had got a chance to survive. Nevertheless, the extraordinary radiation was doing its damaging work everywhere. The percentaged reduction of the amount of healthy children was correspondingly larger at this time than after the earlier events around 6735 BCE.

If we try to imagine the situation in details, we will meet almost all the possibilities mirrored in the ancient myths and legends. We will find the explanation for human “creatures” with such deformations like just one eye (one eyed Cyclops), or four eyes (Argus Panoptes, the all seeing creature), with more than four limbs (Hecatoncheires, three giants with fifty heads and one hundred arms each of great strength), with deformed limbs (the goat legs of Pan, the Greek God of Nature), with bodies known today as conjoined twins (with more than

one head; Chimera with three heads - lion, goat, and snake).

Was a giant mother becoming a baby with such terribly deformed body, the baby, if alive at all, was surely born much smaller than a regular giant baby. Thus the deformed children were growing only to “half-giant” postures and were surely unhappy with themselves if grown to adult age. They became monster in eyes of the remaining survivors because of their monstrous bodies and surely because of the mental damage, which was mirrored in mythology and legends by specific aspects of their characters.

Of course, the monstrous mutations (“modifications”) of the bodies were also possible by animals of that times. One extreme example can be Cerberus, a three headed dog with a snake tail and snake heads protruding from his back. The other most known example is Pegasus - a winged horse.

Also the sexual reproduction of such organisms with highly deformed bodies had to be very problematic for the offspring. All of thinkable combinations are also included in one or more myths and legends. The examples of Sirens, half-woman, and half-birdlike creatures, or Centaurs - half man, and half horse creatures, are probably a pure fantasy, although, who knows? We were not witnessing those difficult times personally.

At the end of the Silver Age, the continuous fighting between the still half-gigantic “monsters” and the new emerging “kind” of human beings, with their peaceful leaders (Gods), the very last members of the old species of

the “*Evolutionary Atlants*”, had had to escalate to a true war between the “New Titans” and the “Old Giants”. The “Great” Flood was the punishment for their “impiety” (but practically punishing all of them simultaneously).

The fear of any contact of the new human beings with the monsters of previous ages was so strong that even in our medieval civilization every deformed body was readily condemned to isolation, if not to death. Maybe even the still present policy to hide any information about new discoveries of giants skeletons in thousands of places all around the Earth, is also the result of this ancient fear. But today we are finally going to surmount this fear. We have to end the degeneration phase in the life of our species and begin a peaceful and mind- and spirit driven evolution towards a better world for all of us.

The recent technical development, how much modern, and even revolutionary it would be glorified through our economy, still cannot be seen as a sign of our awakening from the degradation of humankind. However, it gave us the technical conditions to build the first global civilization not only mentally, but also in a practical sense. We can communicate, exchange our thoughts and ideas, much easier, quicker, and more directly to all corners of our civilization, than ever. But in order to wisely use these new technologies, we have to change our individual consciousness towards a global consciousness of the whole civilization.

One of the first aims of this change has to be to stop the present degradation of the role of the fundamental unit of our civilization, the quantum of any human civilization, the healthy family, a family where the children have a

possibility to grow in love and understanding between parents, grand-parents and siblings, or simply put, a possibility to thrive and prosper in love. If we should not become able to recreate the basic role of this natural unit in our life, we can freely forget any other plans concerning our “glorious” future. Our children upon becoming adults must have the will and the ability to bring up their own healthy families. Otherwise our civilization has no future.

How imperatively the family condition could be, can be best considered on the example of the German nation, which stands shortly before their final extinction, but is still playing “the same procedure as every year”, like the orchestra on the sinking Titanic, the ship that “God Himself couldn’t sink”. (*More to that example can be read in Appendix 4*).

Nevertheless, I am still optimistic that even the “old Europe” (including Germany) has a realistic chance to become an active part of the global civilization. This optimism was the driving force to write this book. However, I am also sure that this single voice is much too weak to change the meaning of millions of people at once. It can be done much better by film makers or songs writers and interpreters. Because (as we hear in one of my favorite songs), “what only matters, is what we see with our heart.”

Appendix 1: The drift velocity of the Earth's continents

Let us consider some numbers to our vibrating Earth model. We want to know the order of magnitude of the period of the Earth's core swinging along the Earth's rotation axis in relation to the whole Earth's material.

From the Unified Family of all physical quantities, we know that the quantum mass of the Earth M_E equals the universal quantum of circulation Φ_f multiplied by the quantum time squared t^2 :

$$M_E = \Phi_f * t^2.$$

The quantum of circulation Φ_f is the same for all quanta in our Universe. It is a purely mathematical derivative of the Universal Unity, or the Universal Creative Potential (compare my previous book “*Our illusory physics*”):

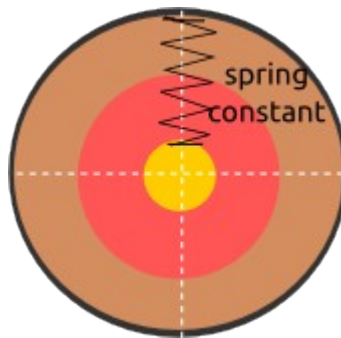
$$\Phi_f = 1.310 \times 10^{-4} \text{ m}^2/\text{s}.$$

However, what is a quantum time t in the above equation?

At first let us note that the “spring constant”, describing the flexibility of a spring, is an equivalent of the circulation quantum Φ_f . This conclusion results from the equation combining the quantum force F with the quantum elongation of the spring r ;

$$F = \Phi_f * r.$$

If we assume that the whole mass of the Earth's core is swinging (or technically, *oscillating*) on a hypothetical spring joining the core with the Earth's mantle (and surface as well) (*compare the picture below*), then the quantum time t in our equation means the period of this oscillation.



What do we know about the inner core? How heavy is it? The inner core of Earth, its innermost part, is made mostly of nickel-iron alloy. It is approximately 1,200 kilometers thick. Although the iron is extremely hot - between 5,000 and 7,000 °C - the pressure from the rest of the planet is so great that the iron cannot melt. For this reason, the inner core is mostly solid. Because the inner core is denser ($\sim 13 \text{ g/cm}^3$) than pure iron or nickel, even under heavy pressures, it is believed that the core also contains enough gold, platinum, and other precious metals, which, if extracted and poured onto the Earth's surface, would cover the entire Earth with a coating of almost half a meter deep. The fact that precious metals and other heavy elements are so much more abundant in the Earth's inner core than in its crust is traditionally explained by the theory of the "iron catastrophe", an event that should have occurred during the accretion phase of the early Earth.

As we have discussed in chapter 1, it was not an “iron catastrophe”, and it also did not happen during the accretion phase of the Proto-Earth, which should be dated as early as 7.1 milliard years ago, but 3.5 milliard years later, during the renewing phase of the Proto-Earth to the present form of our planet. Thus, it was the Proto-Mars itself which had enriched the inner core of the Earth giving her a large part of its own core.

Using the above quoted data of the inner core density and dimension we can easily calculate that the core mass is about 1.5 % of the Earth's mass, or 10^{23} kg. Inserting this minimal mass of the “terrestrial pendulum” into our first equation above, we calculate that the oscillation period is 850,000 years. Assuming the presently observed drift rate of about 0.1 m/year, we calculate further that the maximal drift amplitude (or distance) during such a relatively short period is only 85 km. On the other hand, assuming the other extreme, that the entire Earth's mass of $6 \cdot 10^{24}$ kg is “hanging” on the “terrestrial pendulum”, we calculate the maximal period of the Earth's vibration being 6.8 million years, giving by the same presently observed average speed the maximal drift amplitude of about 680 km.

Because the inner core does not move in a vacuum, but in the similarly dense outer core and mantle of the Earth, the true mass we have to consider in our equation has to be somewhere between the two extreme masses. On the other hand, the drift velocity in the past, especially after huge cosmic impacts, could be maybe even ten times as high as today. Therefore, the maximal amplitude of the continental drift can be supposed in the range of a few thousands of kilometers, indeed. What we know for sure, for example,

is the present distance of 8,000 km between Africa and South-America, which is still growing, but already very slowly. The previous speed of the Atlantic “opening” had to be much higher than the present 0.1 m/year.

In summary, we see that the supposed motion of the Earth's crust over the distances of thousands of kilometers considered in Wilson's book is a realistic happening. However, we have to correct their hypothesis, because such a drift can never occur in a few thousands of years, and surely not “in day and a night”. A drift over such distances needs rather millions of years. Nevertheless, the question remains open to further investigation, concerning the possible acceleration of this drift during different cosmic quantum jumps of our Cosmic Hierarchy (compare the book “*Our illusory physics*” or the website of *Naturics*).

Appendix 2: Time-scale of the Family *Homo Sapiens*

(with the present time at the top)

Reference year = 2014

Civilizations of our present species	Step of 1118,22 years (lev.3)	
	our calendar	years ago
Our Global	1905	109
Medieval	787	1227
Roman	-331	2345
Greek	-1450	3464
New Egypt	-2568	4582
Old Egypt	-3686	5700
Post Atlantis	-4804	6818

Species of the Genus Neanderthalensis	Step of 13578,3 years (lev.4)	
	years ago	
	6818	
„Atlantis“ (evolutionary)	8757	
„Atlantis“ (regular)	22335	
Cro Magnon	35913	
-	49492	
-	63070	
-	76648	
-	90227	
-	103805	
-	117383	
-	130961	
-	144540	
-	158118	
The oldest one	171696	

Genera of the Family Homo Sapiens	Step of 164878 years (lev.5)	
	years ago	
Sapiens	6818	
Neanderthalensis	171696	
Heidelbergensis	336574	

Appendix 3: The Cosmic Timescale

The universal time scale of our Cosmic Hierarchy defines all rhythms of our evolution and our life on the Earth.

This universal cosmic timescale is an extremely precise scale of time of the Earth's history. All past time intervals of the Cosmic Hierarchy of the Solar System can be ordered along a single scale of time. The hierarchical cycles of this hierarchy (*compare the table on p. 90, in Ch. 4*) provide us with a precise scale of time for geological, paleontological, archaeological, and even historical events. The most interesting of them are our own evolutionary quantum jumps. These jumps mean the mass extinctions of the already long living organisms and simultaneously the origin of new groups of the more advanced organisms.

A typical chain of events combining the mass extinction with the origination of new groups of living organisms is always the same. It begins with cosmic impacts (of the intensity corresponding to the actually active level of the Cosmic Hierarchy), the resulting increased volcanism, earthquakes, earth slides and tsunamis, and finally – the climatic and environmental changes. These evolutionary steps have been clearly reconstructed along the whole history of the terrestrial life.

Our universal cosmic timescale in its practical use

The first step in the evolution of the primitive terrestrial life towards the human life of today has begun at the level 9, 3506.673 My ago (*My stands here for millions of years*), with a complete restructuring of the Solar System. One of the events most important for the evolution of life was the resulting collision of the proto-Mars with the proto-Earth, ending with the formation of the Earth's Moon.

Note, that one period of the level 9 of the Cosmic Hierarchy lasts 3584.559 My; therefore the current period of that level ends “already” in 77.897 My, probably with some similarly dramatic happenings.

The decisive happening of the Moon's formation was followed by many consecutive happenings of the lower level 8 (with the interval of 295.201 My), which have started:

- 3506.673 My ago; *Archean eon*
- 3211.472 My ago
- 2916.271 My ago
- 2621.070 My ago; *Proterozoic eon*
- 2325.869 My ago
- 2030.668 My ago
- 1735.467 My ago
- 1440.266 My ago
- 1145.065 My ago
- 849.864 My ago
- 554.663 My ago; *Paleozoic Era*
- 259.462 My ago; *Mesozoic Era*

Let us look one level deeper into the two recent steps of the level 8. The steps of the level 7 (of 24.3109 My) of the last but one step of the level 8 have started:

- 554.663 My ago; *Cambrian*
- 530.352 My ago
- 506.041 My ago; *Ordovician*
- 481.731 My ago
- 457.420 My ago
- 433.109 My ago; *Silurian*
- 408.798 My ago; *Devonian*
- 384.487 My ago
- 360.176 My ago; *Carboniferous*
- 335.865 My ago
- 311.554 My ago
- 287.241 My ago; *Permian*
- 262.932 My ago

The steps of the levels 7 of the last step of the level 8 have started:

- 259.462 My ago; *Triassic*
- 235.151 My ago
- 210.840 My ago; *Jurassic*
- 186.530 My ago
- 162.219 My ago
- 137.908 My ago; *Cretaceous*
- 113.597 My ago
- 89.286 My ago
- 64.975 My ago; *Cenozoic Era; Tertiary-
Paleogen*
- 40.664 My ago
- 16.353 My ago; *Tertiary-Neogen;
Ramapithecus*

Now, let us look yet one level deeper, into the present step of the level 7. Its steps of the level 6 (of 2.00209 My) have started:

- 16.3533 My ago;
- 14.3512 My ago;
- 12.3491 My ago;
- 10.3470 My ago;
- 8.3449 My ago;
- 6.3428 My ago;
- 4.3407 My ago; *Australopithecus*
- 2.3386 My ago; *Quaternary; Lower Pleistocene; Homo Erectus*
- 0.3366 My ago; *Middle Pleistocene; Homo Sapiens*

Now, let us look one level deeper into the present, not yet finished step of the level 6. The steps of the level 5 (with a duration of 164878 years) have started:

- 336574 years ago; *Genus Homo Sapiens Heidelbergensis*
- 171696 years ago; *Upper Pleistocene; Genus Homo Sapiens Neanderthalensis*
- 6818 years ago; *Holocene; World-wide floods origin; Genus Homo Sapiens Sapiens*

Finally, let us look yet one level deeper, into the last but one step of the level 5. Its steps of the level 4 (with a duration of 13578.3 years) have started:

- 171696 years ago;
*the first Species of
the Genus Homo
Sapiens
Neanderthalensis*
- 158118 years ago;
- 144540 years ago;
- 130961 years ago;
- 117383 years ago;
- 103805 years ago;
- 90227 years ago;
- 76648 years ago;
- 63070 years ago;
- 49492 years ago;
- 35913 years ago;
- 22335 years ago;
- *the last but one
Species of the Genus
Homo Sapiens
Neanderthalensis*
- 8757 years ago;
*the last
("unfinished")
Species of the Genus
Homo Sapiens
Neanderthalensis*

From the present step of the level 5, no a single step of the level 4 has finished till today. The first species of the Genus *Homo Sapiens Sapiens*, our own species, appeared

- 6818 years ago.

The civilizations of our own species, the steps of the level 3 (with their duration of 1118.22 years) have started:

- 6818 years ago;
- 5700 years ago;
- 4582 years ago;
- 3464 years ago;
- 2345 years ago; (331 BCE);
- 1227 years ago; (or in year 787);
- 109 years ago; (or in year 1905).

The next step of the level 3 comes in 1009 years; (or in year 3023).

The next step of the level 4 comes in 6760 years.

The next step of the level 5 comes in 158060 years.

The next step of the level 6 comes in 1.6655 My.

The next step of the level 7 comes in 7.958 My.

The next step of the level 8 comes in 35.739 My.

The next step of the level 9 comes in 77.897 My.

Note: Our above “steps of life” always begin and end with an extremely warm period connected with the quantum jump of the lower member of the Cosmic Hierarchy through the energy bridge of a higher member, a region of increased energy density, connecting two higher hierarchy members. The cooling of the Earth’s surface follows always about the middle of each period. This is a reason for some small differences between our theoretical points of time on the scale and those traditionally used ones, which are defined from one cold period to another.

Appendix 4: Example of real Extinction: Germany tomorrow

Looking 20-30 years in the future, what a difference can we suppose between „Germany of today“ and „Germany of tomorrow“?

Five years ago, George Friedman, the founder of Stratfor, an American geopolitical intelligence firm, has written in his bestseller book *"The Next 100 Years"* that the role of Germany in Europe will sink below that of Poland in just a few decades. The main reason he has called should be the catastrophic demographic development in Germany.

You can think, five years being too short a period for any demographic change. However, it is a mistake. And this mistake will be repeated also in German politics, including the family policy. During just five years of a continuous political inactivity you have lost a complete generation of children in the primary (four-years) schools. You have lost a chance to reeducate the teachers of those schools. The result is that after those period of just five years those teachers are standing five years more behind the world development; the world has made a large step forwards in a new direction called „globalization“. German family and educational policy had not moved. And who is standing, is moving back indeed.

However, still more serious problem for the German nation is not being able to accept that its demographic „extinction“ could become irreversible very soon.

In German documents I have only found a brochure „Families in Germany; Facts and Figures“ by Heribert

Engstler & Sonja Menning from German Centre of Gerontology, Berlin , December 2004, with a Foreword by Renate Schmidt, Federal Minister for Family Affairs, Senior Citizens, Women and Youth. It is curious to read this foreword directed more to some „international community“ than to the German citizens simply dying out. Of course, the most sentences of this foreword sound well and even wise. However, they act calming, or even comforting rather than alarming, what would be much more necessary. We read there:

„Developments such as changing family structures, the growing number of families of different ethnic origins and current demographic processes all have fundamental impact on social security systems. Developments in this area are not limited to the national context; they are global phenomena. We are living in an era of internationalisation and globalisation and the mobility this entails leads to different forms of living together. Yet there is a constant factor in the midst of all upheaval and innovation and that is the family. The family today has many more facets than in previous times; in addition to the married couple family with children, there are a large number of non-married families, lone parents and families made up of several households. But the changes in external form do not alter the fact that the family is still the core element of society. The family is and remains the basic model for community spirit in action, meaning that only a nation which is family-friendly is a nation with a future. For this reason, acceptance of the family is an essential political credo – in Germany and throughout the world. *(I agree so far; but there is still not the right*

alarming signal, forcing anyone to act immediately. In what follows Ms. Minister is going into an international context of the actual situation worldwide, in order to „promote international debate on this topic“; P.J.)

It was written ten years ago. And what has changed in Germany since then? Only one thing, as far as I know, the extinction rate has accelerated. Is it still no reason to worry about? Seemingly not. On the first page of the mentioned brochure, we read:

“The average household size in Germany has been declining for decades. It has fallen by one quarter since the 1950’s. In West Germany in 1955 there were still 3.0 persons per household, in 1972 2.7, and in the year 2000 only 2.2 persons per household...

Two-thirds of all homes in Germany are one-generation households, i.e. one-person or couple households without children. *(Please read the last sentence twice, or even more times; P.J.)* One in three is a multi-generation household. In 2000, two generations were living in 12.6 million households, that is a proportion of 33 per cent of all households. Multi-generation households in Germany are made up almost exclusively of two-generation households, that is of families with parents and children. Only 0.3 million households (0.8% of all households) house 3 or more generations. Grandparents, parents and children living under one roof are thus a dwindling minority of all households.”

As we see, it is the official number of 0.3 (or less) child in

a German household. Is it not an alarming signal enough? Let us note that a really secured future can be seen first if a nation reaches the number of about 2.5 children pro family.

Now, if we add an information that every second German is already older than 45, then we do not need to be a prophet, saying that around 2040 (in not more than 25 years) at least one third of all German households will stay empty. With the second third following in the next one or two decades. The Eastern regions of Germany know the problem already today. They are trying to minimize the situation pulling the empty houses simply down. It is surely not a solution of the problem.

There are about 700,000 births per year in Germany. However, the difference to the deaths number is growing stronger and stronger. In year 2012 it was around 200,000. A medium-large city, like Kassel or Mainz, is disappearing year for year. And nobody cares? In the next 25 years this rate is going towards a million in year. And nobody cares? Let us visualize the problem a little more drastically. Till year 2018 is Cologne, then till 2022 Munich, and till 2030 also Berlin irreversibly vanished from the German national demographic map. Still nobody cares?

Yes, I do. I would like to know, in which a land my grandchildren have to live with their own children. Can I help them? I think it is a wrong question. I have to help them. We all still living in Germany have to help our children and grandchildren. And not after the countless *“international debates on this topic”* promoted by Family Ministry or any other bureaucratic institution. We have to help just now, immediately. How? I can only deliver my

own spontaneous idea. Any other idea would be welcome as well.

We have to change our point of view upon the sense of our life here on Earth. To die without any younger members of one's own family, but with a full account in a Swiss bank, cannot be this sense. The Maya gold could also not prevent their "extinction". If I should go to be old (I mean really old, "ready to die") as the last member of my own family, it would be my first idea to support some other children with all my remaining wealth and physical forces. In such a situation, even a "strange" child should be more worthy to myself than my own car, even when it could be the newest "Mercedes" or "BMW". No a single child living in such a rich country as Germany should be hungry, dirty, poorly educated, living in cold or too small flat, without its own room to learn and to play. The families with children had to obtain a suitable possibility to live in free of charge. Their houses have to be adapted to the needs of children (and of the old people as well, of course). The schools had to be adapted to the presently living children, and not to the existing bureaucratic school system. Only the teachers accepted by the majority of a class should be allowed to teach it. We just have to change our point of view much deeper into the children point of view. Education, including discipline and behavior, is senseless, if carried out against the children' expectations.

You can expand the idea by yourself, but we have to change our point of view indeed, at the best just today. The only realistic option for tomorrow could be: "Good-bye Germany".