

The Song of Life



Rolf A. F. Witzsche

What is our place
in the grand symphony that the song of life on earth has become?
And what is the future of our song
in the changing world of the current Ice Age Epoch?

This book of research takes us back to the beginning of life on the Earth, some 3.5 billion years ago that began the development of a 'song' that culminated in the dawn of mankind and the current development of a profoundly capable civilization. However, this culminating unfoldment of mankind as a large and complex civilization is threatened with its own ending with the near return of the Ice Age in the current or next century. Thus, as we explore the past, we also explore the future, and with it we explore our potential to make the song of life a louder song as ever before that the coming Ice Ages will never again be able to smother or extinct. The research book presented here is a part of the Appendix of the much larger research work, *Universal Divine Science - Spiritual Pedagogical*, by Rolf A. F. Witzsche.

[Start the book](#)

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The Song of Life

a research presentation by Rolf A. F. Witzsche

[Chapter Start](#)

[A Song Spanning Three Eons.](#)

[The Three Eras of the Current Eon - three movements of the Symphony of Life](#)

[The First Movement, the Paleozoic Era.](#)

[The Second Movement, the Mesozoic Era.](#)

[The Third Movement, the Cenozoic Era.](#)

[Mankind is the Child of the Ice Age.](#)

[Is the current warm period special?](#)

[Children of the Holocene.](#)

[The Moral Platform for an Ice Age Renaissance](#)

[Research References](#)

The Song of Life

A profound question needs to be asked that is seldom asked: What came first, the principle or its manifestation? The answer, no matter what it will be, affects the way we look at our world and ourselves. It literally affects everything. And it has the potential to change everything.

So, let us repeat the question: What came first, the principle of gravity that shapes the universe from the smallest atom to the largest galaxy, or did the universe exist at its beginning without its ordering principles, like a homogenous void without a purpose?

One answer would be that the universe and its principles exist together, and have from the 'beginning,' meaning always, since the universe evidently had no beginning since nothing exists outside of its infinite All? This leads to another question to be considered. Was there ever a 'time' in this eternity when the universe and its principles did not coexist as one, meaning that the universe was not an active manifestation of its principles and thereby of itself?

If we assume that the universe and its principles are one, as they evidently are, then who or what created those principles that shaped the universe, that gave it form and light, and substance, and order? Who or what created those principles that are the universe, existing in the forms of its intricate order?

That order, which we are beginning to discern as human beings, is not haphazard but intricate and purposeful and intelligently arranged, ranging from the most infinitesimal part to infinity. Who set all this up? Was the universe self-created with an intelligent purpose? The simple answer would be to place the universe in the courts of God, and to recognize God as the creative principle thereof and as the creative Mind, as the forever source of its intricate order and its very existence.

We can also ask the same question about life. When the first molecule on Earth became complex enough to divide and thereby replicate itself, and thereby began to multiply, a question arose that needs to be explored, whether the principle that enables this complex chemical interplay to take place, which became life, preexisted its manifestation?

The obvious answer is that is that the principle of life existed before its expression, and exists with its expression, and in the forever moments of its expression. Of course, in the search for the origin of the principle of life itself all answers must fail. What causes a principle? Principles can be discovered. They can come to light. But what caused them, and is it still causing them? Are principles self-created, and continue to be created?

In this quest all roads lead to God, to the one concept that embraces all principles and all

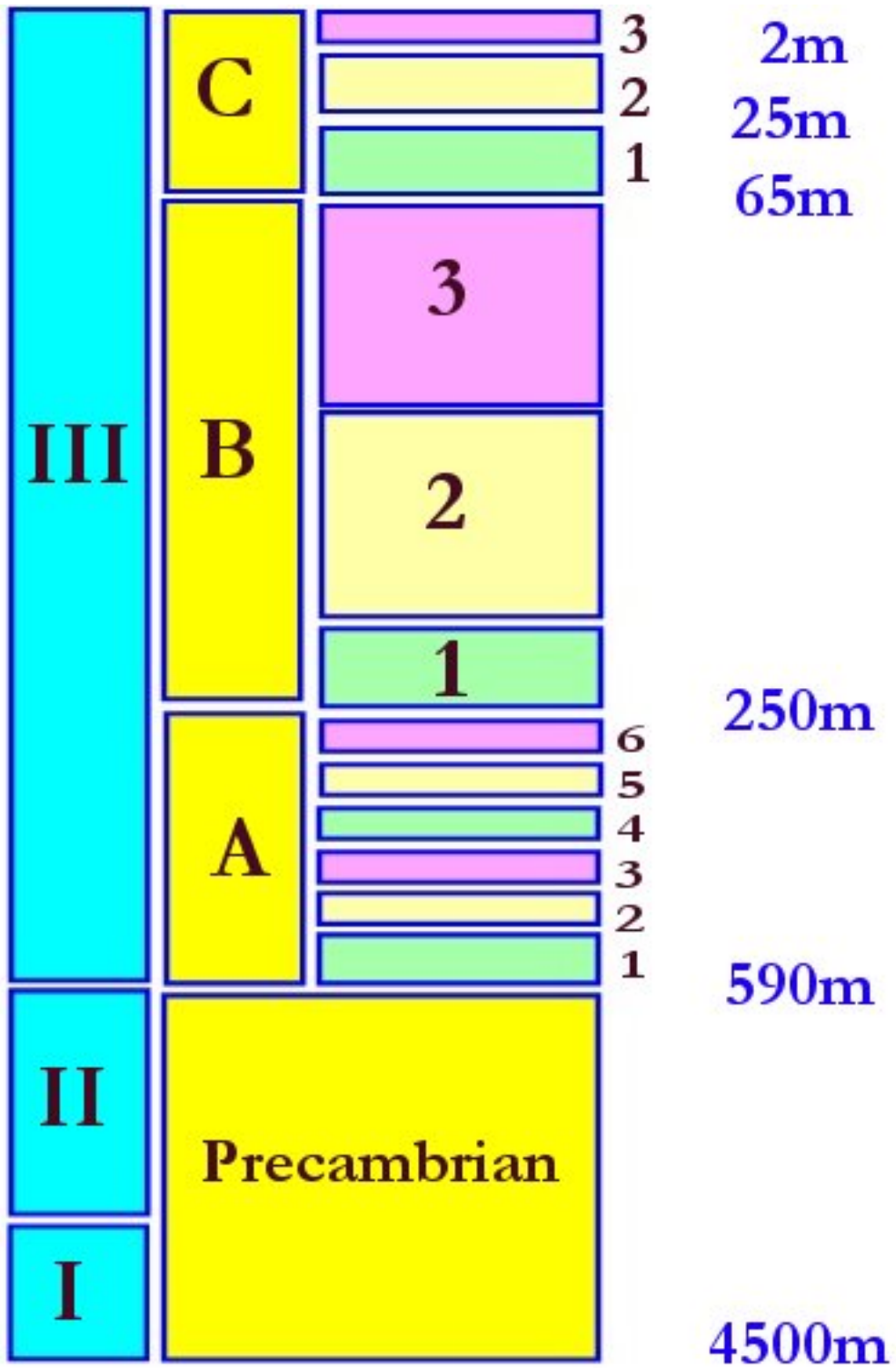
realities that are shaped by them, to the One that exist with the universe but above it in terms of being primary to it, even the One that is All and is reflected in all.

Since it is futile to search for the beginning of the infinite, as no answer will likely ever be found, it useful nevertheless, even essential, to explore the principles themselves, to explore the dimensions of God that are expressed in the universe, in life, and in mankind as the most profound expression of everything that ever was, and is, and possibly will be in our realm.

In this search of exploring the countless expressions of the principles of the universe, especially the principle life as the most complex of them all, we find wonderful stories unfolding before us, stories that unfold like a great song. Now we can search for a beginning, the beginning of the first faint tone of it, the first unfolding spark on earth of the principle of life. This exploration takes us back in time beyond 3.5 billion years before the present, of the 4.5 billion years of our planets existence.

It is believed that the song of life began when a complex molecule discovered the power to split itself apart and thereby reproduce itself. That power gave rise to an unending creative process that has brought to light great wonders over the billions of years since the first tone of its song.

A Song Spanning Three Eons.



In the history of the song of life we recognize three distinct eons (I, II, and III).

The earliest eon is called the Archean Eon (I).

It spans the timeframe from the beginning of the Earth till roughly 2.5 billion years before the

present. In this eon the 'idea' (or principle) of life unfolded, with in rare traces at first. But those soon the song grew stronger and eventually expanded and became the foundation for the entire song of life.

The creative processes of these smallest forms of life had an amazingly powerful effect on uplifting the entire planet as if they fulfilled a specific purpose for a future that lay still billions of years distant. The photosynthesis of the first algae in the oceans and similar forms of life, is being credited with having created all the oxygen in the Earth's atmosphere, without which the higher forms of life would not have become possible.

Building on this minute, but enormously significant beginning, the second eon in the song of life began, called the Proterozoic Eon. That part of the song of life was the longest of them all. It unfolded over almost 2 billion years, till about 590 million years before the present.

The second eon is called the Proterozoic Eon (II).

In this eon the larger living things were created in the creative process of the unfolding principle of life. Those larger forms of life were of a type that were vastly more complex, but had no hard shells as yet. The principle for those higher forms to come evidently already existed at this time, but it obviously hadn't been 'discovered' yet. It appears that life is a discovery process with endless possibilities. It's like a book that one may read, which inspires ideas between the lines that are completely new, but for which the principles always existed.

When the song of life grew loud and clear the third and final eon of the song of life began.

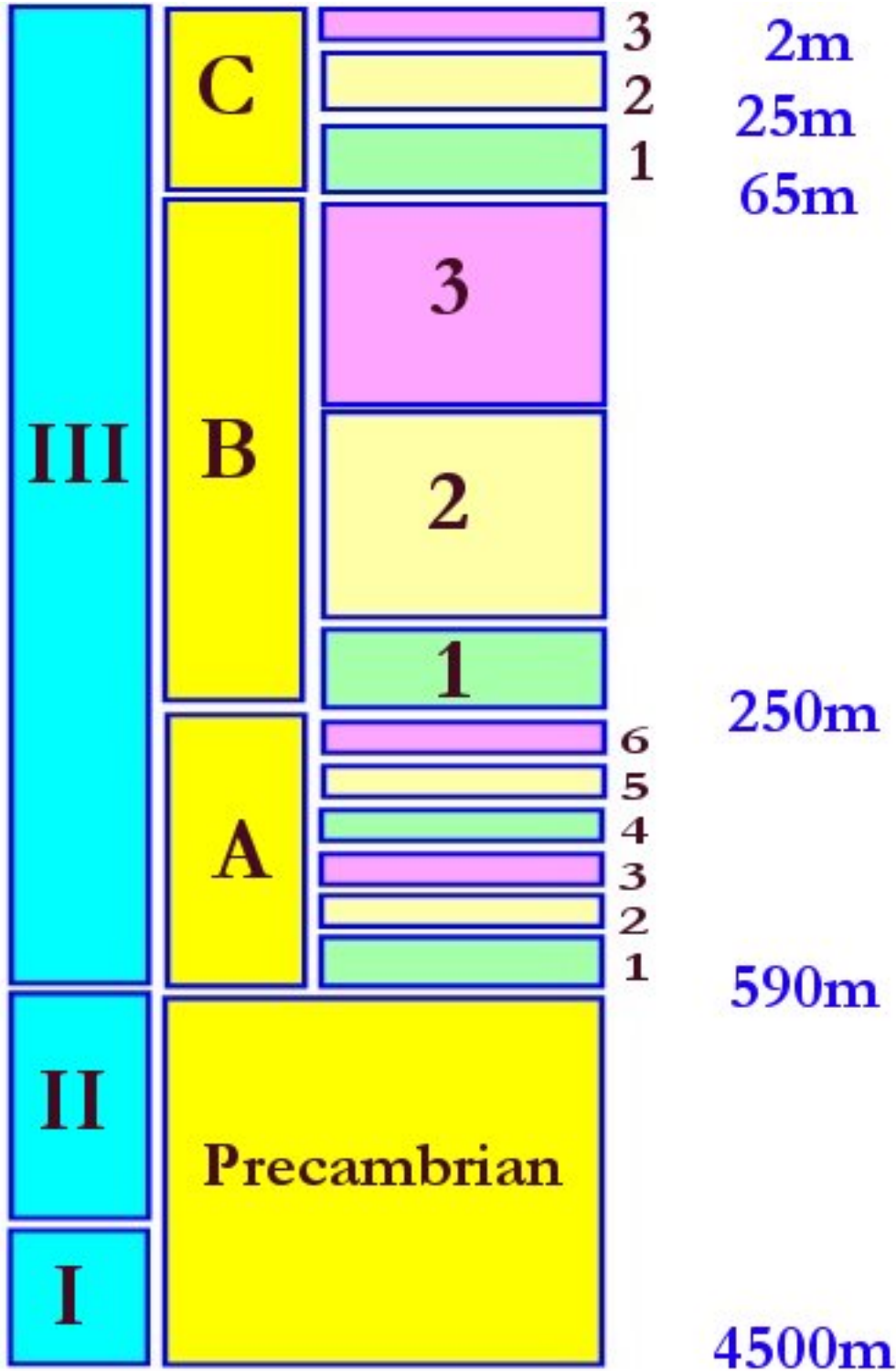
The third eon is called the Phanerozoic Eon (III).

This eon is the fantastic eon in terms of what life became, which seems limited only by the dimensions of its imagination). That's the eon we are now in. In this eon the unfolding of the principle of life became evermore progressive and evermore creative. It became a movement forward that never stopped, never regressed, and never ceased to unfold in new and amazing forms.

Since this final eon covers the majestic song of life from its first sure expression to the present, with all its countless shades and colors and variations of tempo and rhythm, the now evermore majestic song of life has been divided in three distinct stanzas, comparable to the movements of a symphony.

The Three Eras of the Current Eon (A, B, C)

The three eras are comparable to three movements of the Symphony of Life. The era prior to A is simply called the Precambrian. It includes all times prior to Cambrian period (A1) where the symphony of life began in its full majesty.

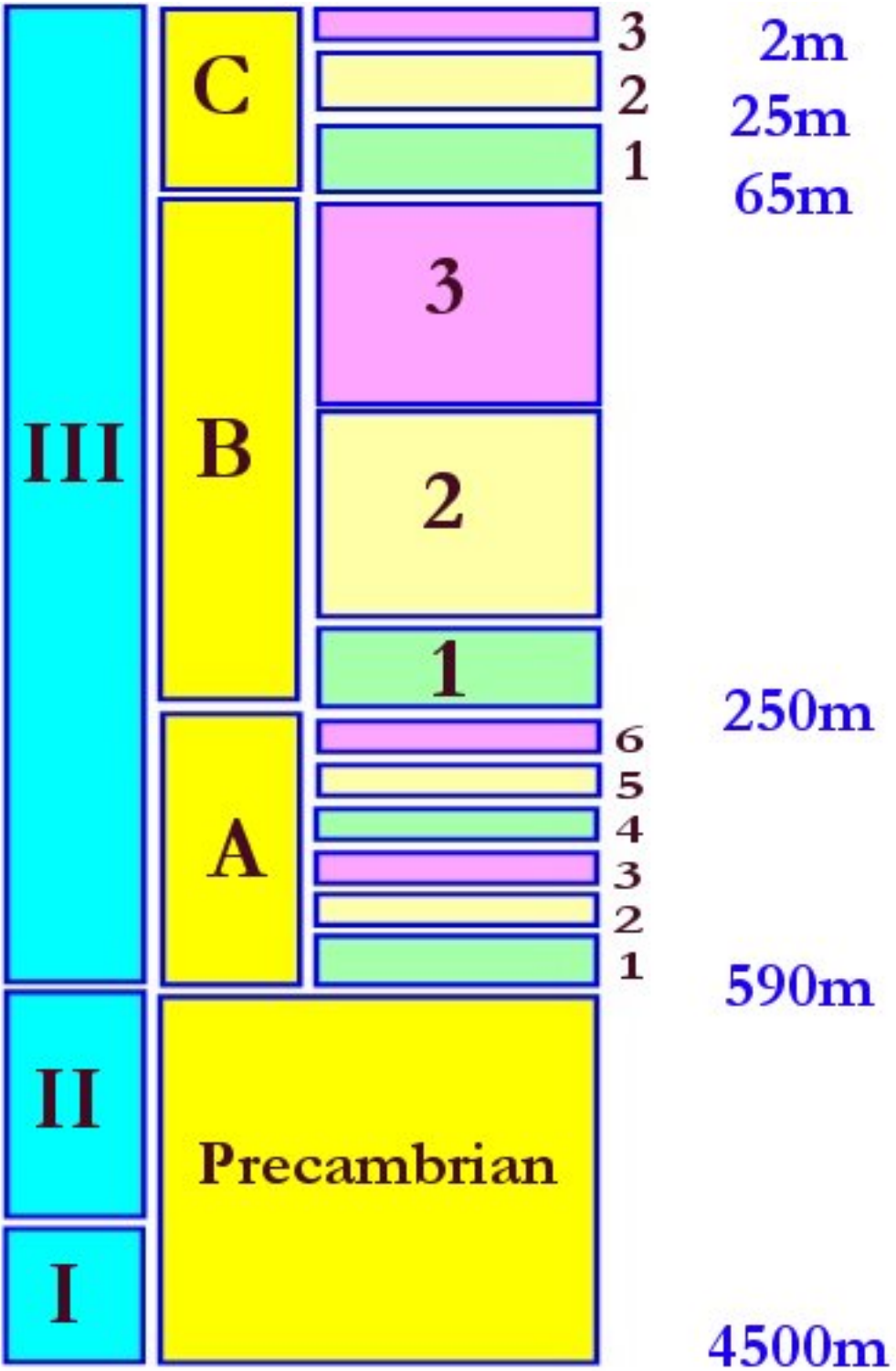


Since we recognize three unique movements within this final eon, each movement comes to light with its own distinct characteristic and its own story to tell as the creative expressions of the principle of life becomes more complex and more capable in bringing to light new forms of its expression.

In this sense the flowing song of life becomes comparable to a grand symphony that is composed in three majestic movements as many symphonies are. As in a symphony each movement is unique in its character, but all the movements carry the same universal theme in variations of its 'color'. In each movement (A, B, and C) the theme is a universal explosion of life on earth. That's the dynamics that combines all the three movements.

The universal theme is the unfolding 'discovery' process of the principles of life in its infinite dimensions. The dimension of life appears to be never regressive, but always progressive, and becomes evermore self-directing the more it appears.

The First Movement, the Paleozoic Era (A).



The first movement of the now grand symphony of the song of life is called the Paleozoic Era.

It begins 590 million years ago and extends for 345 million years. This first movement covers more than half of the entire last eon, and for good reasons.

This first movement of the symphony of life unfolds with intense creativity. From it rise many complex forms of life that we still see today, such as corals, fish, reptiles and plants. The creativity in this era had so many forms of creative expression that we can recognize six distinct periods within that era.

The first period is called the Cambrian Period (A1). It extends for 85-million years in which the eruption of abundant life unfolded, and this with such a profound richness in 'sound' that it's profusion challenges ones imagination. The Precambrian relative 'silence' had come to an ended. The oceans were teeming with life during Cambrian time.

As with any song, however, the tone changed in the song of life as the creative process brought to light new expressions. In the second period, called the **Ordovician Period (A2)**, which lasted 67 million years, the symphony of life gave rise to rich 'melodies' of fish and land plants. Life had moved out of the ocean and spread its creative presence across the land.

However, the Earth was also constantly changing, adding a changing environment to modulate the symphony of life. Moved by the Herculean force of convection currents deep within the semi-molten mantle of the Earth, all the continents of the planet are constantly kept in motion. In Cambrian time the continents began to bump into each other and joined up to become the supercontinent "Pangea I." In the Southern Hemisphere large landmasses became grouped together around the pole. It was around this time that a major 'Ice Age' begun that is believed to have caused the Ordovician mass-extinction, toning down the unfolding flow life. The Ordovician extinction apparently occurred across much of the planet.

The process of extinction seems to be a part of the symphony of life. The principle of life appears to be highly intelligent in its unfolding, as it utilizes the advantages of the prevailing environment to the fullest. By the same token, when the environment becomes modified contrary to the needs of the processes of life, extinction occurs. However, that doesn't change the overall song. It makes it richer as the song now utilizes the new available environments to the fullest.

Actually, the Ordovician Extinction wasn't the first mass-extinction in geologic history. A more deep-reaching extinction is believed to have occurred around 600-700 million years ago in Precambrian times, resulting from an Ice Age in which, as some suggest, the entire planet froze over in an Ice Age period with global glaciation that lasted for 10 million years.

After each extinction, however, the creative process began anew and often resulted in radically different forms of life, often more complex forms, creating new expressions.

Thus, the second major extinction of life on our planet ended the Ordovician Period (A2). Nevertheless, the song of life continued, especially in the oceans. The recovery occurred in the

Silurian Period (A3). It continued until 30 million years later, in the **Devonian Period (A4)**, the first amphibians came out of the water-born creative process of the song of life. With that we saw the rise of the first land-living vertebrates.

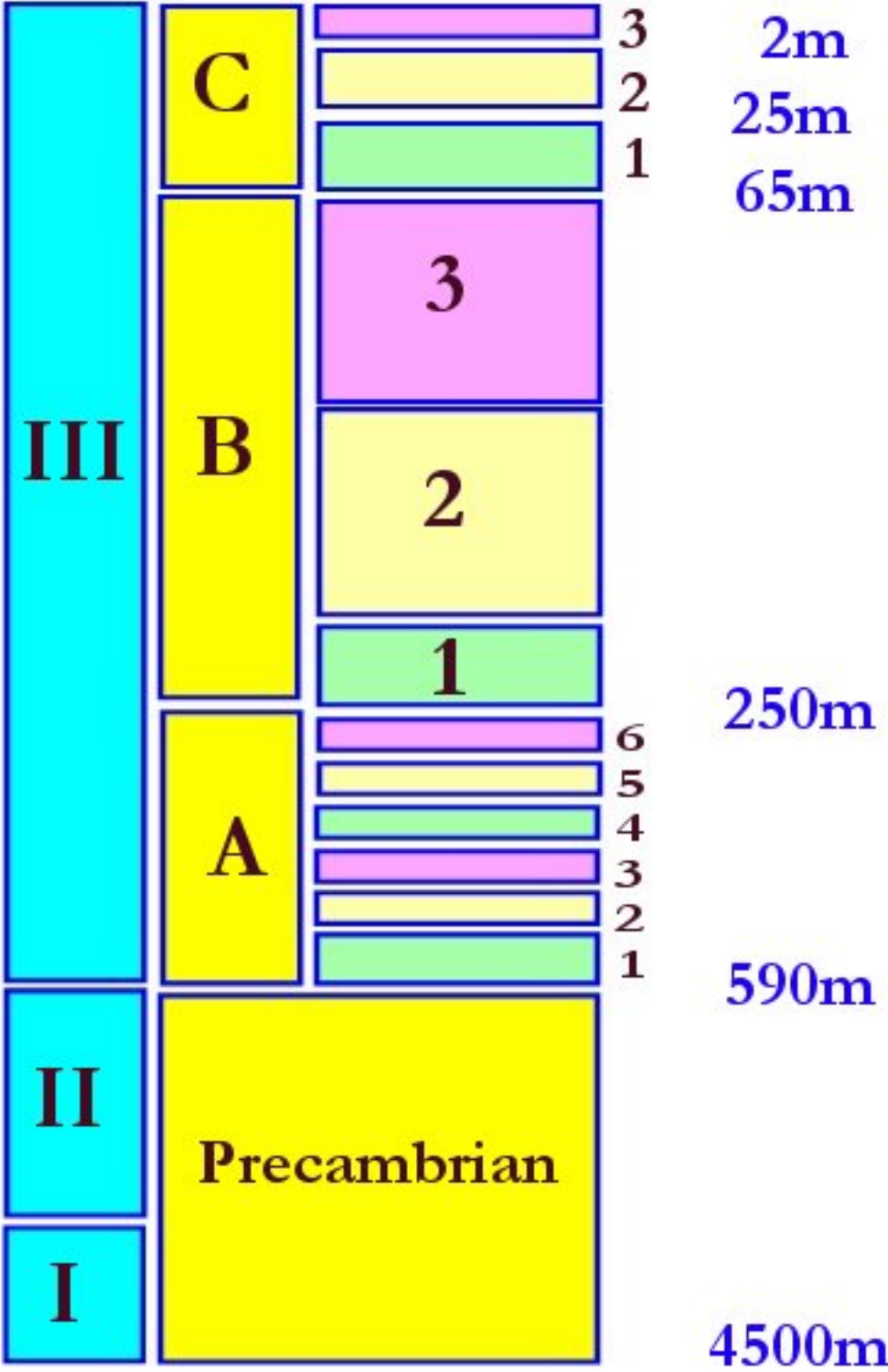
As it turned out, 48 million year later, that period ended again with a mass extinction, called the Devonian Extinction. At this point a single huge landmass, called Gondwanaland, was grouped around the South Pole that gave rise to renewed glaciation, which once again caused the subsequent mass extinction of life in large parts of the planet.

Naturally, the song of life continued its creative process, during what is called the Carboniferous Period (A5) a period rich in swamps and shallow seas and amphibians. As the swamps became dessert, many reptile came onto the scene. With that the **Permian Period (A6)**, began. Near the end of this period, 112-million years after the recovery process from the last extinction had begun the age of the reptiles was fully established, which became the last major melody of the first movement of the symphony of life. As this last movement drew to a close we saw the beginning of the age of mammal-like reptiles that now inhabited the desserts after the climate had changed. The desserts subsequently became a place for multifaceted living. In this sense the Permian Period erupted into a great crescendo, but it all ended once again with a whimper.

The Permian Period ended with another mass extinction, and a big one at that. The Permian extinction became the deepest-reaching mass-extinction of all times in which over 90% of all life on earth perished.

The Permian Extinction, at about 250 million years ago, wiped the slate clean once again for still another new era to begin that massively expanded the creative process of the principle of life. That is how the amazing age of the dinosaurs started, the **Mesozoic Era (B)**, the second movement of the symphony of life.

The Second Movement, the Mesozoic Era (B) - the era of the dynasour.



The now 'reshaped' song of life in the second movement of its grand symphony staged the mighty 'drum-beat' of the dinosaurs, the age when massive creatures shook the Earth, and

many smaller ones that took to the sky then filled the air, and tiny lizards that roamed the land together with some mammals.

The **Triassic Period (B1)** was the first period in the dinosaur era. It spanned about 35 million years. This era became the era of a new beginning in the song of life on Earth. The Earth had become warmer. Large areas of the supercontinent had drifted out of the South and became massed in the equatorial regions. Life became 'good' again. With that shift to an ideal climate for reptiles the second period of the dinosaurs began, the **Jurassic Period B2).**

The Jurassic Period lasted for 69 million years. It gave rise to the big meat eaters, such as the Tyrannosaurus that prowled the arid landscape, some being 40 foot monsters standing 20 feet tall, weighing 7 tones. This 69-million-year period became an age of astonishing creativity in the song of life, with a wide proliferation in the creation of new species, some of which developed independently as the ever-reshaping supercontinent (now "Pangea II") began to break apart.

The breakup of the supercontinent left behind large areas of shallow and warm seas that brought moist climates to much of world, creating a biotic paradise that fuelled the dynamism of the dinosaur age even more than before. This that **Cretaceous Period (B3)** began. The creative process flourished in the now warming and moist climate while the fractured pieces of the supercontinent drifted further and further apart, creating a number of separate worlds, each with a separate creative environments. The song of life became a chorus in this environment, a time of unequalled creative activity.

This 79-million-year period of a wildly creative process (the Cretaceous Period) was also reflected in the world of plants where it gave rise to flowering species, both plants and trees. However, as it was the case in previous times, this majestic era of life, the era of the dinosaurs that had in its entirety lasted for 183 million years, ended once again in yet another mass extinction of life, bringing the Mesozoic Era to a close.

The extinction of the dinosaurs some 65 million years ago is a mystery that led to many theories. The most likely one is that several cataclysmic impacts of large meteorites caused changes in the world's environment. The boundary layers above the Cretaceous deposits in many parts of the Earth are marked by traces of irridium, which is a rare element on the Earth, but not uncommon in meteorites. The end of the dinosaurs could also have resulted from a 'gradual' change in the global climate as large shallow seas developed across the continental shelves. It is known for example that of the 36 major species of dinosaurs that existed 10 million years before the end of the era, only 11 had remained right till the end when the 'extinction' begun that might have occurred 'gradually' over an extended timeframe of a major fraction of a million years.

The creation of life during the era of the dinosaurs appeared to have been shaped by the needs of the creatures versus the existing potential offered by the changing environment. The

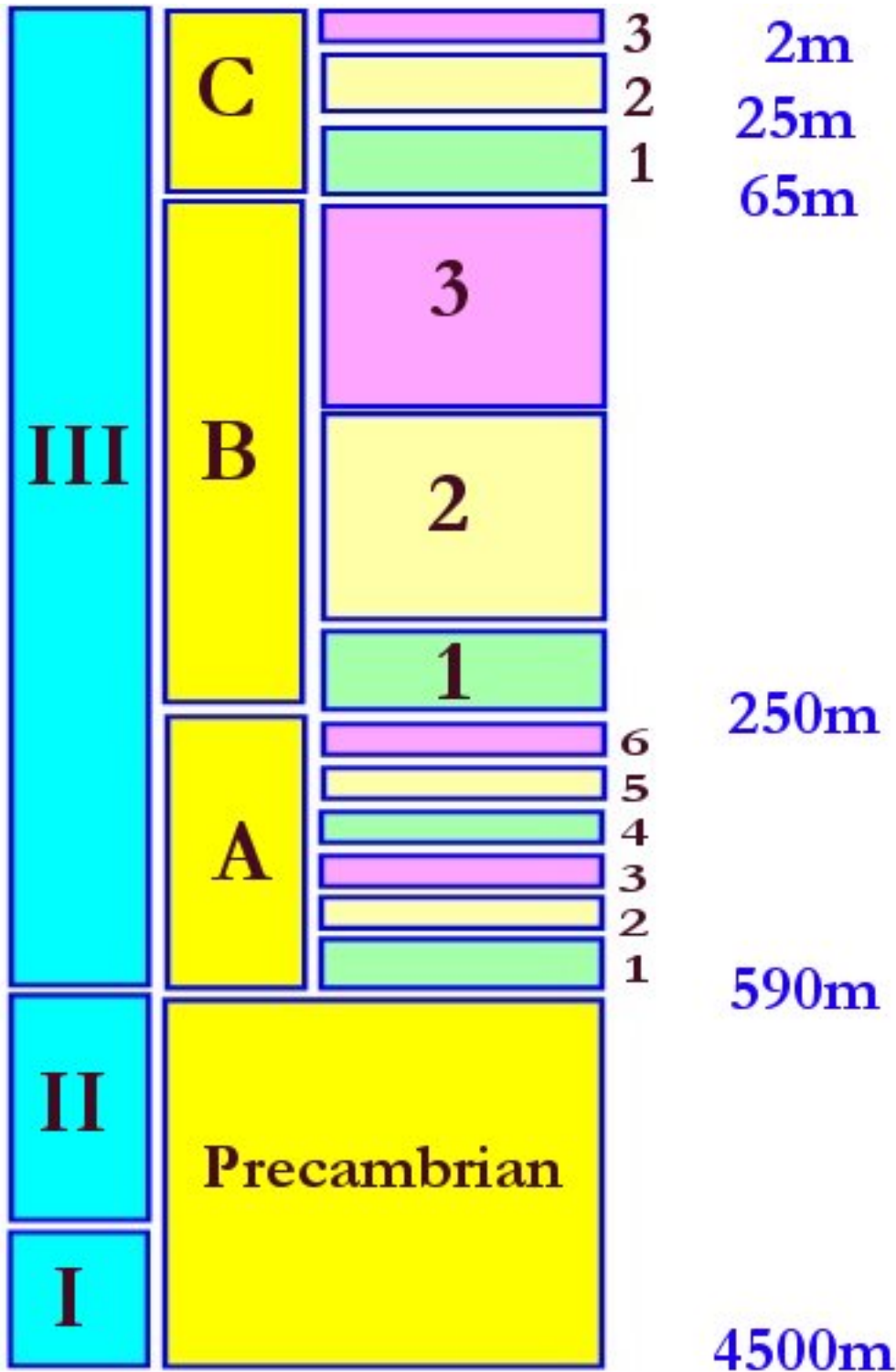
creature's needs were easily met in those times of warm climates as the supercontinent drifted across the equator where cold-blooded creatures could thrive perfectly well. The dinosaurs are thought to have been cold-blooded, which was an ideal feature for the dinosaurs, since the warm-blooded metabolism requires ten times more food to power the animal.

The smaller mammals and birds, for which the logistical factor of gathering food wasn't a big a thing, were believed to have been all warm-blooded. So it appears that the very specialization that had made big-monster species possible on earth had also been the cause of its doom. Thus, the entire species ended when the climate ended in which the 'drumbeat' of the dinosaurs had been staged.

Should this tragedy not have happened? Had the principle of life failed itself? Hardly! The dinosaur era gave us the most massive array of animal power in the history of the Earth, on a scale that could not have been staged on any other platform than the efficient cold-blooded platform that served the animal well for 170 million years. The dinosaurs were in fact the most successful species of life in the entire history of the song of life. But it too, gave way to new forms. That's what makes the song of life so rich. It pushes the creative edge forward unfolding a near infinite abundance.

It appears that we may never know for certain what really happened when the movement of the dinosaurs, which had been a majestic movement in the symphony of life, ended around 69 million years ago. But we do know that with the end of the age of the large reptiles a new era began in the song of life, the era of the world of mammals and birds, called the **Cenozoic Era (C)**, our present era, which makes up the third movement of the symphony of life.

The Third Movement, the Cenozoic Era (C), the era of modern life and cooler climates.



With the slate having been wiped clean once again with the extinction of the dinosaurs, a new proliferation in the creative process of life started. The resulting change in the symphony of life

unfolded in two distinct stanzas divided into two distinct periods.

The first period was the 63-million-year **Tertiary Period (C1 and C2)**, followed by the brief 2 million year period of the current Ice Age, called the **Quaternary Period (C3)**.

The Tertiary Period is made up of two phases that echo in a small sense the first two movements of the symphony of life, which is reflected in the names selected for those two periods. The first sub-period is called the **Paleocene Period (C1)**, a 40-million-year period in which the song of life swelled into a melody of forests and primitive mammals. In the second sub-period, called the **Neogene Period (C2)**, a 20-million-year period, the creative song of life became a melody of vast grasslands in which we saw the the principle of life give rise to the modern mammals. It is near the end of that second sub-period that we find the dawn of man, roughly 2.5 million years ago, coincident with the dawn of the Ice Age.

The **Quaternary Period (C3)**, the **Ice Age Period**, is conceptionally divided into two epochs. One is the **Pleistocene Epoch**, extending 2 million years, and the current interglacial epoch, the **Holocene Epoch**, extending for 0.01 million years. This is the epoch of the dawn of civilization. The two epochs are not shown, as the Holocene is too minute in duration to be represented on the scale of these large time frames.

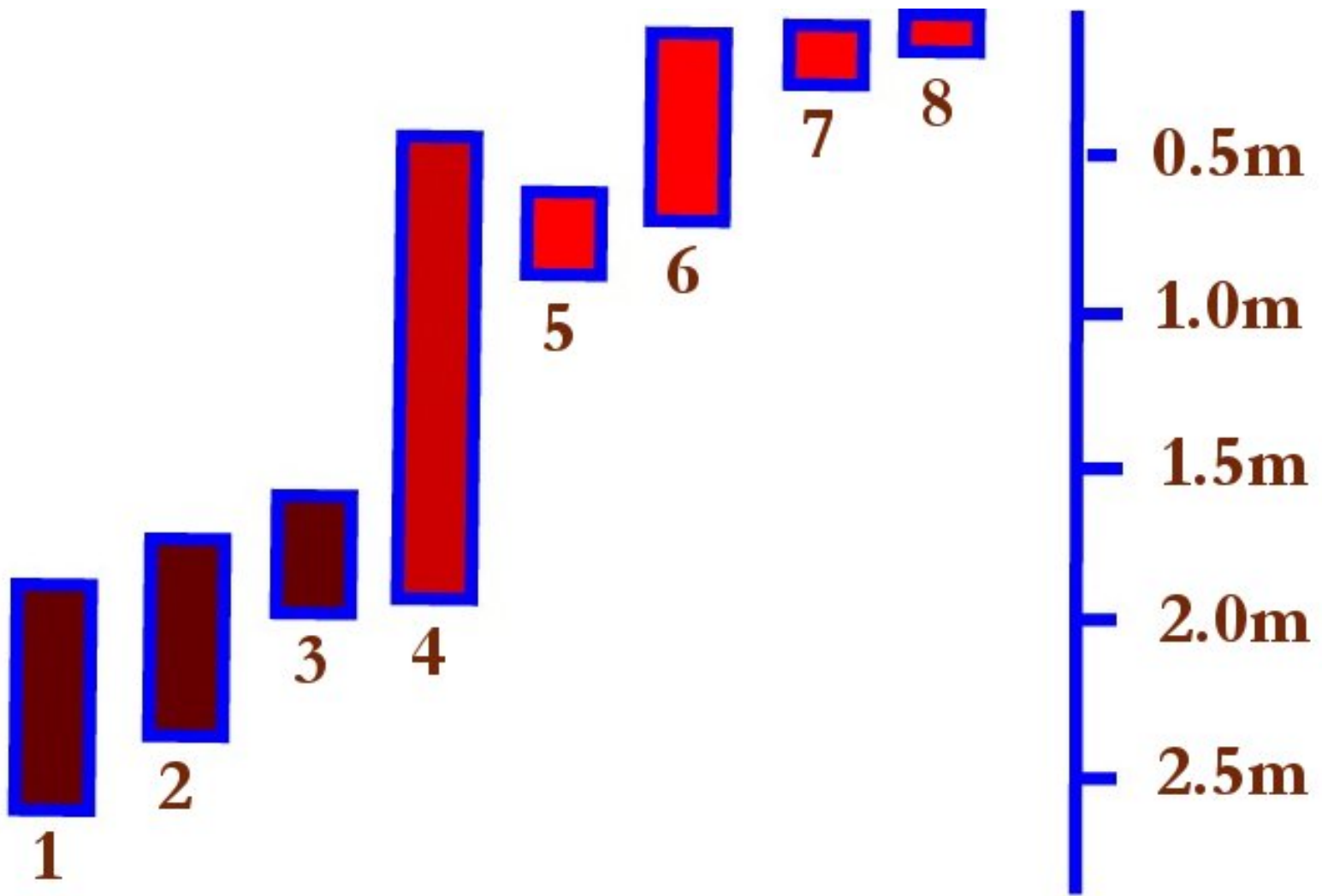
Mankind is the Child of the Ice Age.

Continental drift had shifted once again large landmasses over the South Pole and in addition large landmasses into the high latitudes of the Northern Hemisphere. With that combination the conditions had been ripe once again for a new Ice Age to begin. Actually, the condition had been 'ripe' for almost 50 million years prior to the point when the glaciation began. As it was, the current Ice Age didn't begin until some other factors outside of the dynamics of the Earth contributed to it.

The Ice Age technically started 5 million years ago when the continental ice sheet in Antarctica began to expand. The Antarctic ice sheets presently extend across 5 million square miles and make up over 80% of the glacial area of the planet. The Greenland Ice Sheet, in comparison, is relatively small. It amounts to a mere 13% of the present global glaciation. In the current climate glaciation covers slightly over 10% of the entire land area of the world. Under full Ice Age conditions the ice-over increases to 30% of the world's land area. Most of the increase occurs in the Northern Hemisphere, amounting to a 15-fold increase in glaciation, which adds up to the conditions that mankind faced on its long historic journey across nearly twenty Ice Ages that were interrupted periodically with warm climates of short duration.

The Quaternary Period of the Ice Ages has only two epochs defined for it, which in a technical sense is inaccurate. The two defined epochs are the Pleistocene Epoch, which covers the 2-million years of the Ice Ages, and the Holocene Epoch, which covers the current exception, the presently ongoing interglacial warm period that is nearing its end. The dawn of mankind coincides quite closely with the beginning of the Pleistocene Ice Age Epoch. We are told that the dawn of man began 2.5 million years ago, which is roughly the time when the climate of the Earth was beginning to shift towards the current Ice Age Epoch. Since ice ages are rare in geologic history, with the last one occurring some 200 million years ago during the Permian Extinction, the question becomes intriguing as to why the dawn of man, which is likewise a rare event, coincided with the beginning of a more inhospitable Earth. The coincidence seems to suggest that development of the human genius and also our unique physicality was the product of great challenges. Otherwise, why didn't the dawn of mankind begin 10 million years earlier when the climate of the world was more ideal for life? The existing coincidence suggests that the climate was a major factor, creating the need for mankind to deal with enormous challenges for survival.

Another factor supports the idea that mankind is the product of dealing with enormous challenges. That factor is the modern multiple origin theory. It is believed that the development of mankind began in several parts of the world simultaneously. There exists evidence that three or four different species emerged that may have merged into homo erectus (4), the longest surviving species, which appears to have survived for 1.5 million years.

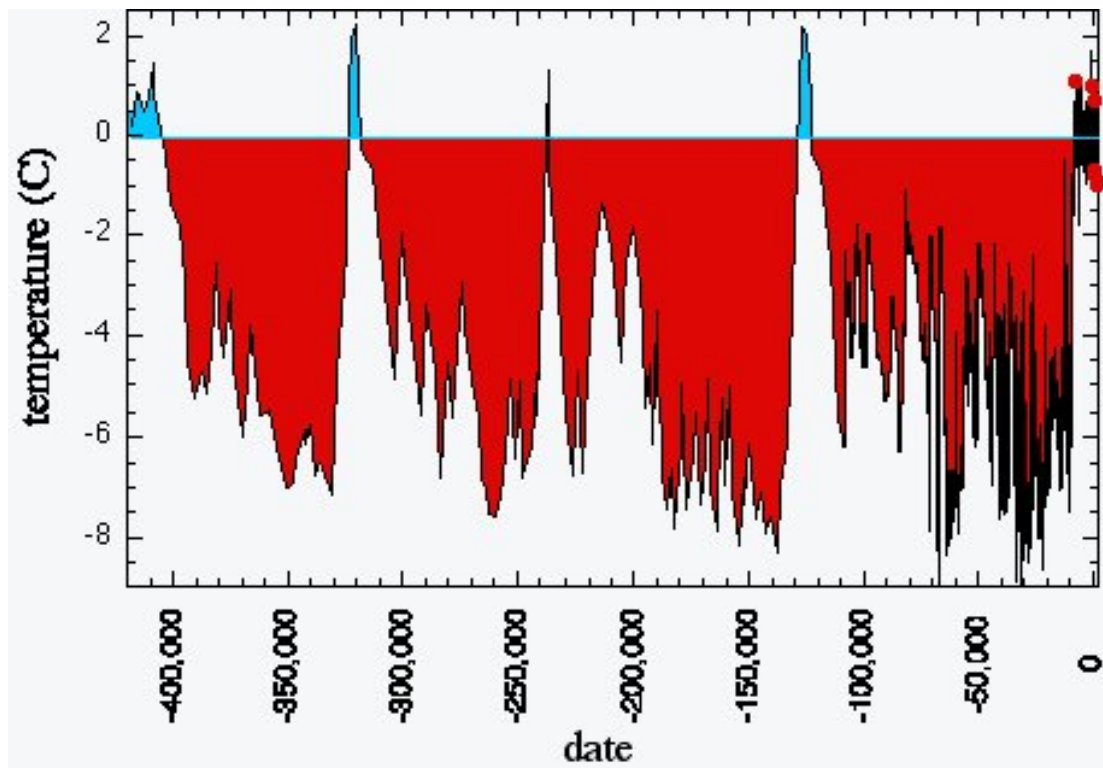


Whatever the reasons where, the early species have all become extinct, and so have all of the more modern ones, except ours, the species of homo sapiens. We are the 'youngest' species, between 100,000 to 200,000 years in existence. But we've grown up through the ice ages. When the last Ice Age ended, we emerged with a 1 to 10 million world population. Now we become a species of over 5 billion going on to 10 billion. We face the challenge to survive the next Ice Age with possibly a 10 billion world population in a world in which agriculture that presently sustains us, becomes decimated by coming cold Ice Age climate. We face the challenge to utilize our human resources to create technological infrastructures to protect our food resources, as for example in indoor facilities. If we face these challenges a new kind of humanity will be established, without empires, fascism, wars, and other destructive insanities. If we don't face these challenges, the human melody of the song of life may come to an end. The biological collapse of 5-10 billion people may be sufficient to exterminate the species with disease vectors and possibly nuclear wars.

Still, there is room for optimism. While our civilization has developed enormously, we remain the children of the ice ages, and as such we have proven ourselves to be masters of these challenges. This makes the present interglacial period of the Pleistocene Epoch special, in that we can restructure ourselves and our world to face the ice ages that it has in store for us, without becoming decimated by them.

From a climatic standpoint, some scientists argue that the Holocene Epoch, our current warm period, should be regarded as a part of the Pleistocene Epoch. They argue that the Holocene Epoch, which is our

present interglacial warm epoch like a holiday from the deep freeze, is but one of many such warm epochs that have interrupted the Pleistocene deep-freeze every 100,000 years for a brief spell of roughly 10-12,000 years. (See below - <http://muller.lbl.gov/pages/IceAgeBook/Chapter%201%20html%20old>)



Scientists argue that there have been too many such Holocene type periods of warm climate for the present one to be given a special name without mentioning the others. They argue that the Pleistocene Epoch should cover the entire period, because for 88% of the Pleistocene Epoch the world is in an Ice Age deep freeze where the climate is rather inhospitable for the continuing song of life. Or isn't it? I would argue that the Holocene Epoch is special, as we will emerge from it as the masters of the Ice Age, and thrive in it out of the riches of our own resources, that we have the capacity to do. We are presently in a boundary area towards a new transition to Ice Age condition. No one can foretell in what year the transition will begin and how rapidly it may happen. The above graph suggests that the transition will happen gradually over long periods of time, but deep core ice samples seem to indicate that large fluctuation can be expected that are oscillating rapidly in the time frame of decades during the transition period and may begin without warning. The best estimates will ultimately be still guesswork. The renowned ice core researcher Zbigniew Jaworowski, M.D., Ph.D., D.Sc, suggests that our present interglacial period has already exceeded the average by 5%. He quotes others who suggest that the transition may begin in 50-150 years. Nevertheless there is nothing inherently certain about those types of events that happened the last time so long ago that detailed evidence becomes unreliable. Nor can it be said that the historic pattern will be repeated. The most likely assumption that one can make is that the Ice Age cycles that prevailed for the last million years will continue and that large temperature fluctuation will likely wipe out our warm-period based agriculture that our food resources depend on. The most prudent response would be that we begin to protect our food resources now with indoor agriculture, which may take a hundred years to create. Gambling with the lives of possibly 99% of mankind by doing nothing and assuming that the next Ice Age won't happen for a long time to come, as we are committed today, appears to be sheer insanity.

Is the current warm period special?

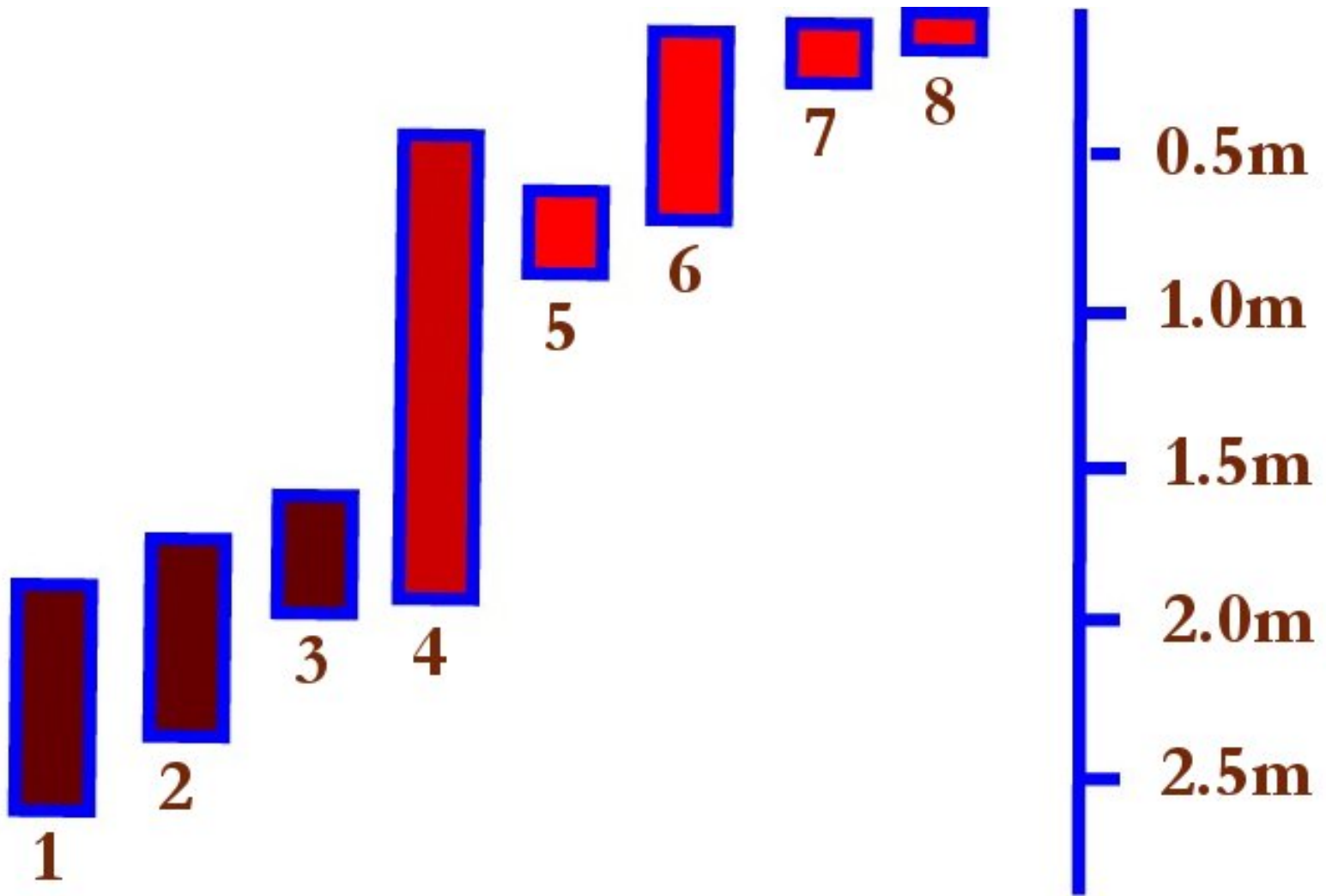
So far it has been that way. During our present holiday from the Ice Ages, called the Holocene Epoch, the Symphony of life unfolded with a new melody that is unique in the entire creative dimension of life. The Holocene was the first epoch in geologic history in which a high level civilization was created. Modern civilization marks a phase shift in the entire song of life, representing another beginning that had no prior occurrence in all the eons since the song of life erupted over 3.5 billion years ago. For that reason, it may be argued that the Holocene Period that we are presently in is a period of profound significance in the symphony of life on earth that literally changes its very dimension, unfolding new principles, new capabilities, new opportunities, and new potentials to spread life across the universe.

No previous form of life had 'discovered' the capabilities of principles that makes us, the human species special. Even the mighty dinosaur that shook the earth under its stride was limited to the expressions of movement and actions that were immediately powered by the food-energy that it consumed. Mankind stepped beyond this threshold with increasing discoveries of the divine principles that shape and power the physical universe. We utilized technological power with technological energy resources to achieve what muscle power could never achieve. With the intelligence that we discovered in us we learned to utilize countless discovered principles that now give us capabilities that no other living being ever had. We can move mountains, fly across the oceans faster than the speed of sound; transport millions of tones of materials with ease; cultivate barren places into fruitful fields; dig deep into the earth to harvest its offerings; fly into space, to the moon and other planets, and soon to other solar systems. We can do all of these things and more, which have never been possible before in the entire history of life on this planet.

In this expanding sense in the dynamics of life the Holocene Epoch marks the beginning of a whole new symphony of life that is grander than anything imaginable, of which it must be said the we haven't heard anything yet. One day the Holocene Epoch will be recognized as the start of a brand new eon, the Divine Eon, the eon in which mankind embraces the principles of the universe and life and its expressions and makes them its own, building on them, enriching the universe with light.

We are not there yet, but the potential does not exist, and the first real test of that potential will be our response to the return of the Ice Age, which some evidence suggests might happen in 100-150 years from now. The presently demonstrated technological potential of mankind is such that for the first time in the history of life that capacity is at hand to side-step the periods of mass-extinction that are typically associated with periods of major glaciation and cold global climate. With the development of indoor agriculture on a scale to feed ten billion people throughout the coming next Ice Age period of over 90,000 years, we have the potential to steal the sting of the Ice Age that would otherwise prove fatal.

We came out of the last Ice Age with a 5-million world-population, because that was all that open-air agriculture could support. If we don't apply the human resources that we now have and create a new and protected platform for agriculture, the human presence will shrink back to a comparable size of an Ice Age population, to possibly a 100-million world-population that might be maintained with modern agricultural methods applied in the remaining agriculturally viable lands. That would still cover only 1% of the ten-billion world population that we will likely have in 100 years time. The loss of 99% of humanity falls well within the category of a mass-extinction. In fact, we, the homosapiens (8), are roughly the eighth major human species. The previous seven major species and groups of species have all become extinct and largely forgotten, possibly as the result of the many Ice Ages.



Their names barely live on in scientific language as the australopithecus rudolfensis (1), australopithecus habilus (2), homo ergaster (3), homo erectus (4), homo antecessor (5), homo heidelbergensis (6), homo neandertalensis (7). In fact we barely recognize ourselves as the homo sapiens (8), the last survivors and the shortest lived of them all, at barely 200,000 years of age. Homo erectus had existed for 1.5 million years and became extinct. However, for the first time ever, and as the first species ever, we have the capacity at our present stage to steal the sting off the Ice Age and bypass its tragedy that other species may have suffered, provided we apply the capacities that we have developed.

Some people may doubt that we have the required capacities to achieve the necessary technological wonder that can save us from the coming Ice Age. In order to judge that potential, let us look at what we have already achieved.

As I said humanity has entered the Holocene Epoch with a relatively small presence. However, its journey through the difficult conditions of the roughly 20 Ice Ages of the Pleistocene Epoch has forced mankind's creativity to a higher qualitative level. A new phase in the creative intensity of life began that profoundly shaped the outcome of it. Mankind came into the Holocene from its 2.5-million-year history with a tiny 5-million world-population (variously estimated between 1-10 million), but it also came equipped with a richly developed genius, resulting from countless progressive discoveries and self-

discoveries of the principles of life and the universe. Mankind came into the Holocene with a qualitative dimension that profoundly sets the human species apart from any other species of life ever created in the creative processes of the principle of life. That developed potential in combination with the Holocene warm climate set the stage for an astonishing explosion of human life that brings us to the threshold of creating the technological capabilities and resources to live and prosper in an Ice Age World without interruption and curtailment.

Since our food resources are keyed to the current warm-climate agriculture, a new form of agriculture must be created that is climate independent, such as indoor agriculture, or industrial agriculture in which the biotic processes are superseded manifold in productive yields. A protected food resource appears to be a coming necessity for human survival. Ice core samples that were drawn from drilling to very bottom of the Greenland Ice Sheet have revealed large fluctuation in prevailing temperatures during the transition period spanning several decades going into the last Ice Age. If this happens again we may face climate changes of a magnitude that could potentially wipe out agriculture even in the equatorial regions of Africa, Indonesia, and South America. In such a case, without an efficient protected food resource, mankind may lose well over 99.9% of its global population. The ice core samples seem to indicate that this may well be our future during the next transition period. It is certainly true that after 2.5 million years of the development of mankind only a minuscule world population of 1 to 10 million people emerged from the last Ice Age. That's the challenge that we face, and it is a challenge indeed of huge proportions to create the infrastructures to support our 10 billion world population that we may have in 100 years time, and carry it into and through the next Ice Ages.

Children of the Holocene.

We were demanded for two million years to become increasingly creative in our response to the ever-changing and often harsh environment. We became in this manner the first truly creative species of life in the known universe. The capacity for scientific and technological development, which defines our present age, has been created largely by our own doing under the intense pressures of a harsh environment. We literally 'created' ourselves as a new species on the planet that is as different in its complexity and capacity in creative power as day is from night. By this factor the Holocene Epoch became not just another cyclical phenomenon of climatic changes, but unfolds with a brand new melody of its own in the song of life that is carried now forward with a creative power never before seen on this planet. Right from the start, in what is deemed the cradle of civilization, we have seen active interventions by mankind in shaping the environment to make it more productive. We have seen irrigation systems being built, such as those built in the Indus River valley by the Harrapan Civilization that goes back more than 5000 years from the present.

The Holocene is the latest warm period of the Pleistocene Ice Age. It began with a much warmer climate than we have now. The Holocene Optimum was two degrees warmer than the present global average temperature, consequently there was far more moisture in the air. Evidence suggests that the Sahara was green 7000 years ago. It had rivers flowing in it and civilizations developing. The age of civilization also began in many other places on the planet, almost simultaneously.

It began of course, when the process of agriculture, which apparently had been created from much earlier discoveries, suddenly flourished in the ideally warm climate and formed the background for what may be termed a humanist revolution. Living in the Holocene climate, mankind's creative process, which had become a budding scientific process, had utilized the warm climate as a ready-made resource for expanded food production that enabled it to multiply. The tiny 5 million world-population that emerged from the Ice Age background after 2.5 million years of mankind's existence 'suddenly' became a 150 million world-population in only 100 centuries. This kind of rapid development represents a profound phase shift in the qualitative unfolding of the principle of life.

After the initial period of growth the dynastic and imperial age began on Earth. In its time the creative process was slowed to a snail's pace. By the mid-1600s, the world population had reached barely 500 million. At this point, still another phase shift occurred in the creative song of life. It occurred in the form of a Cultural Revolution. A new image of mankind had been created and put on the table. It launched a new renaissance, a renaissance of scientific and technological progress. In this newly created, intensely energetic humanist environment built on the wings of science, primarily divine Science, the human presence rapidly doubled. In only

200 years 500 million people were added to the world to reach the 1-billion mark around 1825. Then the world-population doubled again, adding an entire billion in half that time, to 2 billion by 1930. From this point on it took a mere 30 years to add the next billion, getting us to 3 billion by 1960. The fourth billion was added thereafter in only 15 years, by 1974.

What had happened? Obviously, this sudden increase in civilization and the human presence didn't reflect improvements in mankind's breeding habits, not after 2.5 million years of prior history. Nor did mankind experience a suddenly gain in intelligence that it didn't have when it came out of the last Ice Age. Coming out of the last Ice Age obviously hadn't change the nature of mankind from what it had become during the precious 2.5 million years. But something dramatic did happen in those final years of the Holocene Epoch. What happened may be termed a new development in divine Science. Mankind had gleamed something from the great periods of renaissance about the nature of itself as a divine manifest of life that has its roots in that one source that holds the principles of the universe, and the principle life, called God. With its new and advanced perception of itself, mankind became a creator in its own right, reflecting the creative principles of God on the wings of spiritual and scientific development.

Now that the present interglacial warm period is drawing to a close, one of the vital factors for our food production in agriculture will vanish, which is the present warm climate that our entire food infrastructure is built on. With that comes the challenge to create new food resources or to create technological infrastructures to protect the world's agriculture in indoor facilities. While it is possible to create the large infrastructures for indoor agriculture, and the technologies that are required to operate them, a higher identity of mankind is required than is presently accepted, the kind that we find rooted in our link to the source of the principles of the universe. The present face of mankind is too deeply soiled with mud, the mud of the fascism of greed, violence, war, even nuclear war, for the kind of Ice Age Renaissance to be possible that is required for building the Ice Age infrastructures. Obviously, the potential that we have as human beings is no guarantee in itself that the potential will be utilized.

This brings us to the question of Divine Science. In Divine Science we find our roots in the principle of the universe, in the divine Principle that is without beginning and is universally reflected. If there is any reason to use the term God, it applies to the concept of Principle. The universe is a construct of operating principles, like the principle of gravitation for example. Without the principle of universal gravity we would have no universe and no life. Some say that the universe and principles that shape it, are one, since this one is a construct of incredible order, harmony, and complexity in its expression at every stage, from the smallest part of an atom to the largest galaxy. But who or what created the principles. By reaching for the potentials that we find in the roots of ourselves, as for the roots of the universe which are inherently spiritual potentials with a 'divine' origin, potentials of intelligence, love, truth, reason, humanity, and so forth, we will make the human species blossom into a renaissance of applied principles that make the coming Ice Age a non-event. That makes 'Divine Science' without a doubt the most crucial element in the self-development of mankind. If we succeed, then the Holocene Epoch will never end. The rule of the Ice Ages will then be broken.

That victory over the Ice Ages is a goal that a highly developed spiritual mankind can achieve. We have made enormous progress over the last few centuries in discovering and utilizing the physical principles of the universe, or more correctly the physical manifest of divine Principle. However, in terms of reflecting the higher level manifests of divine Principle, those that unfold in spiritual expressions reflecting the universal principles of Love, Soul, Truth, and so forth, we behave more like babies in diapers. We cheat, lie, steal, kill, make war, make poverty, loot, destroy, hate, dominate, and build nuclear bombs (yes, that process has started again). What we most need, and this truly more than anything else, is a major breakthrough in Divine Science that helps us to discover, understand, and utilize more and more of the spiritual manifests of divine Principle, such as universal love, that enable us to get out of the present, utterly inhuman trap that we've been drawn into by fascist greed, social isolation, baseless division, and of course slavery to false ideals, and so forth. If we remain in this trap we effectively kiss the potential Ice Age Renaissance good bye, as unattainable. Few will survive that.

Towards this goal, mankind have been given a tremendous boost over the last few hundred years, and not only through the periods of renaissance that were created on this planet, but more profoundly by the efforts of a few pioneers, like Mary Baker Eddy who created in the mid 1800s a far reaching pedagogical structure for the advance of Divine Science among mankind. We can build on this foundation towards the needed Ice Age Renaissance that is required to save our civilization.

The Moral Platform for an Ice Age Renaissance

Related to the four rows of Mary Baker Eddy's pedagogical structure.

1			
2			
3			
4			

The rows are defined by two sets of interlocking definitions, which define the moral domain also as the outcome of divine Principle.

1. **The Word** of Life, Truth, and Love.
2. **The Christ**, the spiritual idea of God.
3. **Christianity**, the outcome of the divine Principle of the Christ idea in Christian History.
4. **Christian Science**, which to-day and forever interprets this great example and the great Exemplar.

1. **GOD** (Divine synonyms) - **MAN** (Divine image) - **IDEA** (Divine Reflection)
2. **Spiritual** - Understanding - Reality
3. **Moral** - Evil beliefs disappearing - Transitional qualities
4. **Physical** - Depravity - Unreality

It is interesting to note that in the absolute domain of the divine, everything exists side by side, laterally. No hierarchical differentiation or isolation is possible. The lower three levels then cover the entire sphere of human development. Here, everything is hierarchical and 'vertical.' The three levels correspond with what Mary Baker Eddy described the: "**Scientific translation of mortal mind.**" Their range extends from the "**physical**" domain of "**depravity**" at the 4th level, coincident with "Christian Science;" up to the "**moral**" domain of "**transitional qualities**" at the 3rd level (described as evil beliefs disappearing, coincident with "Christianity;" progressing from there up to the "**spiritual**" domain of scientific "**understanding**" at the 2nd level, coincident with "the Christ" where scientific perception opens the door to the divine.

Mary Baker Eddy renders the moral platform as central to the human world, but also as a low-level and transitional platform in this universal order. This rendering is highly significant. In fact it is a pioneering projection that only Christ Jesus had dealt with before her. She puts the

moral platform not on top of the scale of attainments as much of world claims to do. Instead she puts it at a low level, below the Christ-level, at the level of Christianity. This level renders the moral platform the gateway to the domain of Christ-Science.

This pedagogical structure indicates that if the moral platform is weak, our gateway to the Christ is essentially closed, and with it the path to Christian Science healing is also closed. It is the scientific and spiritual development of mankind at the Christ-level that opens the scientific horizon to the divine reality, to the resources of heaven that the process of Christian Science healing projects into the NIGHT and HELL at the lowest realm of on Earth, represented at the 4th level. If the moral platform, as a gateway to the Christ, does not exist in society or in individual thinking, the entire healing process becomes disabled.

While the moral platform is not primarily scientific it needs to reflect the nature of divine Principle. The humanist principles must reflect the essential aspects of divine Principle. She defines the moral domain, Christianity, as the outcome of the divine Principle of the Christ idea in Christian history. For example, while it may not be possible to embrace the Principle of Universal Love without a significant scientific background, it should certainly be possible for society to embrace its fundamental element, the Principle of the Universal Brotherhood of All Mankind, and establish this principle as a moral platform. Mary Baker Eddy writes under the heading: Assistance in brotherhood: "God gives the lesser idea of Himself for a link to the greater, and in return, the higher always protects the lower." Then she brings the underlying idea closer to the surface, saying, "The rich in spirit help the poor in one grand brotherhood, all having the same Principle, or Father; and blessed is that man who seeth his brother's need and supplieth it, seeking his own in another's good." After that, she brings it still closer to the surface, saying, "Love giveth to the least spiritual idea might, immortality, and goodness, which shine through all as the blossom shines through the bud. All the varied expressions of God reflect health, holiness, immortality--infinite Life, Truth, and Love."*(See Science and Health, 518) From this point, it is but a small step to embrace the Principle of Universal Love. But it all starts with the fundamental element, the Principle of the Universal Brotherhood of All Mankind. Without that, everything that is built on it, is blocked, being conceptionally 'inaccessible.'

In relating the textbook chapters to the foursquare pedagogical structure, Mary Baker Eddy placed her two chief cornerstones of the pedagogical structure NOT into the spiritual domain, but into moral domain on which so much depends, which she described as the transitional stage, a stage that functions as a stepping stone to the the spiritual domain, to the domain of the Christ, the development of the spiritual idea in divine Science. These cornerstones are two profound platforms that "elucidate" scientific metaphysics. They are the Christian Science Platform in the chapter **Science of Being**, and the platform that spans the entire chapter **Recapitulation**.

Ironically, the moral domain is essentially a low-scientific domain, the kind that we want to get away from as fast as possible by stepping up to higher ground. We want to step up to the fully

scientific domain of the Christ, which in turn strengthens the moral domain. It is simply not possible for mankind to end wars as a merely moral project, without this moral project being pulled up to higher ground and being based on divine Principle in the Science of being. The Christ-science, or divine Science opens the portal to the resources of heaven that enables the healing of society to occur that ends wars. Christian Science healing will at length accomplish that, but it has to begin at the moral domain being based on divine Principle.

Right now the whole moral process is largely disabled. The moral platform has been abandoned. The platform of society has been reduced to a historic low point, reminiscent of the days of the Roman Empire, but lower than that. We've got 40,000 nuclear bombs to prove it, and empires with such a devastating impact that entire continents are now collapsing into abject poverty, with homelessness at an all-time high around the world and people scrounging the garbage dumps for scraps of food while not enough garbage exists to go around. We are presently quite willing as a global society to put 50,000 people to death each single day, most of them children under the age of 5, imposing poverty-related scourges that are easily preventable. These scourges are easily preventable once the steps are taken to create the needed new renaissance in universal humanist development, such as economic development, and industrial development, and so forth, that would reflect the Principle of the Universal Brotherhood of All Mankind. The tragedy is that all the steps towards a universal renaissance are actively impeded. In fact, they are viciously impeded in order to protect empires that depend on stealing, which cannot exist in a richly developing Renaissance World.

In other words, we are presently in a historic moral crisis, globally. And more tragic than the crisis itself, is the fact that the crisis is happening while the greatest natural challenge to civilization and human existence stand on the horizon possibly since the dawn of mankind. This natural challenge is imposed by the return of the Ice Age in the near future that threatens 99% of mankind with extinction for the lack of food resources if don't get our act together and develop climate-independent food resources. Our present food resources are almost entirely derived from agriculture that is totally keyed to our present interglacial warm climate, which is projected to end in 100-150 years according to the natural cycles of the universe. (See the novel [The Ice Age Challenge](#))

The big challenge that the impending return of the Ice Age imposes on the present, is that we develop the means to shift our global agriculture into indoor facilities to protect them from the cold, or to industrially create synthetic food resources. It may take 100 years to develop the required technologies, the physical resources, and the productive facilities, but with the appropriate effort this challenge can be met. However, the much bigger challenge for mankind to met, before the physical challenge can be tackled, is to rebuild the moral platform that enables mankind to create the needed renaissance environment in which all of what needs to be done, can actually become possible. That is where we face the greatest 'deficit' and the greatest challenge.

The most powerful tool that mankind has at the present time to achieve the needed moral rebuilding is Mary Baker Eddy's pedagogical structure for scientific and spiritual development. In this structure her textbook is one of the chief cornerstones. In other words, the very survival of civilization and mankind apparently rests to a large degree on this book and the pedagogical structure that it is a part of.

The question may be asked here: Was Mary Baker Eddy aware of the depth of the moral challenge and its deep reaching impact in future ages? It appears that she was aware of it in principle.

In her usual, bold pioneering fashion she suggest: "Break up cliques, level wealth with honesty, let worth be judged according to wisdom, and we get better views of humanity."* (Science and Health 239)

This challenge that she put forward to "level wealth with honesty" is nothing short of a call on society to heal itself of the 'disease' of private wealth, - manifest as the focus on the privatization of the wealth of society versus the development of the universal wealth of society. It is evident throughout the world that this 'disease' of private wealth inhibits the unfolding of the universal brotherhood of man. The two platforms, the privatization of society's wealth and the universal brotherhood of mankind are contrary platforms by their very nature. The brotherhood of mankind is totally rooted in divine Principle, while the privatization of society's wealth is a denial of the universal divine Principle. The privatization of society's wealth is therefore a platform without Principle, a fascist platform, an immoral platform that engenders the collapse of civilization.

Evidently Mary Baker Eddy was right in making this call before the global tragedies resulting from this disease would mushroom into the horrific dimensions that turned the last century into the worst century of war and destruction in human history. What turned out to be just a scourge on the horizon in her time, though the entire American Civil War had been an element of this disease, has become in modern times a pandemic disease that is destroying the nations and is now threatening the very existence of civilization and mankind as a whole by rendering the needed Ice Age Renaissance unattainable.

How infinitely distant mankind presently stands from meeting this challenge is indicated by the fact that the healing of privatized wealth as a disease, versus universal wealth, is absolutely not on the agenda today. Much to the contrary, all the impediments have been removed against the processes of the wealth-creating stealing from society on a global scale. Any form of real moral development is not even on the slow burner. The divine Principle reflected in the Universal Brotherhood of All Mankind, is laughed at. We are brandishing bombs at each other. Free-trade and imperial looting are deemed moral and are hailed, and are now wrecking entire nations with the privatization of the wealth of mankind, while the protection of the nations' industries, infrastructures, social support structures, and industrial

development are all deemed totally immoral in the age of wealth-gathering imperialism and the rule of might. On this low platform, mired in the sewers of greed and fascist force, the needed 100-year development effort for indoor agriculture on a global scale, together with the supporting industries and infrastructures, becomes absolutely unthinkable. Indeed, why would anyone living in the sewer be concerned with the future needs of mankind or its continued existence?

For example: Right now in the USA, in the most wealth-loving nation on Earth, 20% of the population claims 80% of the national income, while the remaining 80% of society are left with a mere 20% of the national income. That adds up to a 16-fold differential in income spread and puts 80% of the population into a position of virtual slavery for the greater riches of the remaining minority. This vast spread on such a large scale, which presently enslaves the much of humanity, makes a bitter joke out of the Principle of the Universal Brotherhood of All Mankind and the divine Principle of Universal Love.

I have created a 9-episode series of novels, *The Lodging for the Rose*, to explore the deep challenges posed by the Principle of Universal Love and the moral Principle of Universal Brotherhood. I thought originally that this could be achieved in a single novel. It turned out that a series of nine was required. (Some of the novels are presently under revision. Please see the website: books.rolf-witzsche.com for availability.)

The Principle of the Universal Brotherhood of All Mankind has been scrapped in today's world and labeled archaic, together with the Principle of Universal Love that never even got off the ground. The horrendous deficit that society has now accumulated in all of these aspects, especially in the moral arena, cannot be overcome by working at the same level and from the same platform on which the deficit has been created. The deficit in the moral domain can only be overcome by a moral recommitment to the fundamentals based on divine Principle, powered by Christ-Science unfolding in the processes of Divine Science in Mary Baker Eddy's pedagogical structure.

With the ingenious design of her pedagogical structure, Mary Baker Eddy not only provides a resource for solving the present civilization-destroying problems. She has also provided with it a yardstick for measuring our progress in the moral domain.

For example: For as long as the universal brotherhood of all mankind is not on the agenda to be acknowledged and honored by dedicated efforts and meaningful results in "leveling wealth with honesty" - effectively ending the imperial world - the effectiveness of Christian Science healing is blocked and civilization and mankind are doomed. The resulting tragedy is a symptom of a lacking moral foundation. The resources for overcoming this lack are identified in the pedagogical structure as mankind's divine resources for good, defined by Mary Baker Eddy as: "Omnipotence, omniscience, omnipresence, and omni-action."

Actually, Mary Baker Eddy stated her demand to "level wealth with honesty" in a rather gentle manner. Christ Jesus was much more adamant about the deeply inhibiting effect of a person or society living far below the minimal moral platform snubbing the divine Principle, such as snubbing the Principle of the Universal Brotherhood of All Mankind and the Principle Universal Love. We are told by Matthew what Christ Jesus thought on the subject:

23 #Then said Jesus unto his disciples, Verily I say unto you, That a rich man shall hardly enter into the kingdom of heaven.

24 And again I say unto you, It is easier for a camel to go through the eye of a needle, than for a rich man to enter into the kingdom of God.

25 When his disciples heard it, they were exceedingly amazed, saying, Who then can be saved?

26 But Jesus beheld them, and said unto them, With men this is impossible; but with God all things are possible.*(Matthew 19)

Here is where the divine qualities of "omnipotence, omniscience, omnipresence, and omni-action," come into play and give us hope for a standard to live up to. Maybe the demand by the future on the present, for creating an Ice Age Renaissance, will in time break the deadlock against the much needed healing of mankind in Divine Science that Mary Baker Eddy's pedagogical structure can provide. The key in this healing lies not in eradicating society's fascination with the privatization of its wealth. They lies in getting mankind out of this HELL and replacing it with something better, with the divine Principle of the Universal Brotherhood of all Mankind and above that with the Principle of Universal Love.

The Moral Dimension of the Ice Age Challenge:

The dawn of mankind takes us back in time across 2.5 million years of history that has not been a joy-ride for humanity. Almost 2 million years of this history occurred during the present Ice Age Epoch, the Pleistocene Epoch, which has not ended, but has merely been interrupted periodically with short intervals of exceptionally warm climates, called the

interglacial periods. The current warm period is one of these. However, it is nearing its end.

While we have some understanding as to what is causing the Pleistocene Ice Age Epoch and the interglacial exceptions, a lot of it remains still unknown. Nevertheless we do know from historic records that the Earth has been in a cyclical pattern of ice periods, typically in the range of 90,000 to 94,000 years, interspersed with warm periods in the range of slightly over 10,000 years. While our theories about the phenomena are constantly changing as more knowledge is gained, the astrophysical cycles themselves remain predictably rigid. From the general average of the observed cycles it is possible to determine that we are presently close to the transition point back to the normal Ice Age environment, the cold environment with radically lower global average temperatures. Again, we know far too little about the specific dynamics of an Ice Age climate, however we are fully aware of the effect the cold climate had on the humanity.

We know for example that we, the species of *Homo sapiens*, are the 8th human species in the unfolding of mankind. The seven previous species have all become extinct along the way, probably as the result of the numerous recurring Ice ages of the Pleistocene Epoch. We also know that with all those 2.5 million years of development our credit, we emerged from the last Ice Age with nothing more than a 5-million world population (estimates vary between 1-10 million). This tiny population had evidently been all that the planet had been able to support in its cold climatic state. But then, with the onset of the current interglacial warm period, the entire human dynamics suddenly changed. By the time the interglacial optimum was reached and the biosphere had recovered, the world population began to grow. At about 1000-BC it had reached 50-150 million. At this point major scientific progress began. In the First Century AD the world population is estimated to have been 200-400 million. At this point the imperial dark ages began in which little humanist development happened. The world population increased only minutely from then on, to roughly 500 million in the mid-1600s. At this point a major renaissance occurred, and with it the scientific development that enabled a fuller utilization of the agricultural potential that the warm climate offered. With these expanded developments in agriculture, massive food resources were created that simply hadn't been possible to even imagine during the long Ice Age periods. Thus, we have achieved a 1000-fold increase in the world-population.

The tiny 5 million population that came out of the last Ice Age after 2.5 million year of development, suddenly became a 5 billion population, going on to 10 billion. Nevertheless, the entire vast population-miracle became possible only during the time when the warm-climate agriculture became possible. The warm climate had awakened a revolution in the creating of food-resources. However, almost all of this developed capacity is keyed to the current warm climate. That is what we are in danger of loosing, when the warm climate ends. We are loosing the key element that mankind is currently dependent on for its agriculture, the warm climate.

If nothing is done to make our global agriculture climate-independent, such as by shifting it

into artificial indoor environments, our food resources will collapse with the return of the Ice Age. This may not mean that the world-population will shrink back to the 5 million level that came out of the last Ice Age. With modern agricultural methods we might be able to extend this limit 20-fold, to possibly 100 million. Nevertheless, even if this most optimistic view were to be realized, we would still lose 99% of the 10-billion world population that we may have a 100 years from now.

Unfortunately, those human losses on the scale of this magnitude would be unavoidable if we were to fail in protecting our food supply in indoor facilities on the global scale before the Ice Age transition begins. In other words the coming Ice age poses a much graver danger to mankind than a full-scale nuclear war.

"Oh it won't come to that," you may say, "because global warming is happening instead!" . Don't bet on it.

The global warming doctrine has nothing to do with climate reality, but is essentially a psychological warfare agent to protect the imperial world from the profound renaissance environment that an honest response to the Ice Age challenge would inspire, which however the imperial world could not survive. In real terms the entire CO₂-greenhouse-effect hoopla has nothing to do with anything real. The reality is in the opposite. CO₂ is not a major greenhouse factor since 97% of the greenhouse effect comes from water vapor, and of the remaining 3% in which CO₂ is a major factor, mankind's global contribution amounts to no more than 3%. In my books, 3% of 3% adds up to virtually nothing. The big factor that remains however, the 97% of the greenhouse effect that comes from water vapor, is hugely influenced by cosmic radiation that affects cloud formation, the variations of which cause the cooling or the warming of the planet.

Yes, the Earth has been in a warming trend since the mid-1700s when the last Little Ice Age ended. However, in recovering from the last Little Ice Age we are only half way back to the medieval optimum that existed before the Little Ice Age started, and only a quarter the way back to the Interglacial Optimum of 7000 years ago when the Sahara was green and had rivers flowing in it and civilizations developing. But none of those huge temperature variations were manmade, of course, since for most of this time mankind's presence was minuscule.

This tremendous historic global warming leading up to Holocene Optimum, or the Medieval Optimum, to a level way beyond anything we have seen in recent years, happened at a time when the biggest manmade contribution to the greenhouse gases of the world came from a few camp fires and the stomachs of domesticated cows. Geologic evidence is also quite clear that the CO₂ factor, which the global warming political hubbub is all about, has virtually no impact whatsoever on the global climate.

For example, it is known that 440 million years ago the atmospheric CO₂ content was 18-times

greater than it is today, (not just 30% which the present hubbub is about). Nevertheless, this dense CO2 level in historic times didn't prevent the massive glaciation that is believed to have caused the Ordovician Mass Extinction of nearly all life on the planet around that time, and likewise the second mass extinction at the end of Devonian Period by another major glaciation event which occurred at a time when the CO2 content of the atmosphere was still 12 greater than it is today. Neither did the high level of atmospheric CO2 content, which continued to persist, prevent the vastly extensive glaciation that is believed to have caused the greatest mass extinction of all times, the Permian Extinction, some 250 million years ago, in which over 90% of all life on the planet perished. Even as recent as 50 million years ago when the CO2 content in the atmosphere was still 6 times greater than it is today, the global temperature was only 1.5 degrees warmer than we have it today, which makes it roughly equal to the interglacial optimum of our current period which is CO2 deficient in terms of the needs of the biosphere.

The bottom line is that the entire CO2 hoopla is built on a lie. No facet of it concurs with real history. And why should we be surprised at this, since it has become morally acceptable to lie on a grand scale in the name of political objectives?

Neither is it true that the general scientific community supports the global warming doctrine. Nothing could be further from the fact. Three major petition projects are proof of that.

The first of these was the 1992 Heidelberg Appeal that was launched from the University City of Heidelberg in Germany against the unscientific global warming assumptions and draconian demands based on it. This single appeal netted the organizers 4000 signatures of scientists from 69 countries, including 63 Nobel Laureates. Of course, one shouldn't be surprised that this massive appeal didn't even make it onto the 'agenda' of the Rio climate conference in 1992, which followed a political agenda rather than the truth. Subsequently the Leipzig Declaration project was launched, again from Germany, which focused only on the world's actual climate specialists. The Leipzig Declaration Project brought together 110 protest signatures from the leading experts in the climate science field, all in time for the 1997 Kyoto climate conference. But again, the voice of the actual experts wasn't heard. Dissent wasn't welcome at the Kyoto conference either. After all, the conference had been organized to support the global warming doctrine. Evidently, the outcome of the conference had been largely predetermined as this is usually the case with the kinds of world-conference events for which the delegates are generally hand-picked for their commitment to the predetermined conclusions.

After the voice of dissent at Kyoto had failed to be heard, another petition project was launched by the scientific community, the so-called Oregon Petition project that was actually run out of California. The petition project brought together an unprecedented 17,000 signatures from scientists from around the world, urging the world's government not to ratify the unscientific assumptions behind the Kyoto Accord. *(Based on the Feb. 1, 1999 newspaper article in The New Federalist, Leesburg, VA, by Hugh W. Ellsaesser, an atmospheric scientist, retired from Lawrence Livermore National Laboratory after 23 years of atmospheric and climate research and 20 years as an Air Weather Officer for the U.S. Air Force)

The reality is, that seven years after Kyoto (in 2004) in spite of all the claims of a supposed global consensus on global warming, only 32 countries of the 210 that adopted the Kyoto Protocol have ratified it . This lack of response amounts to an 85% rejection of the protocol. The prestigious Russian Academy of Sciences published its conclusion in May 2004, confirming that the Kyoto Protocol does not have any scientific grounds whatsoever. Nevertheless, the global warming hoopla continues with the evident goal to prevent the needed outbreak of an Ice Age Renaissance, which the imperial world would not survive, but which would enable mankind to survive. Thus, the future existence of 99% of mankind hangs in the balance over a globally staged attempt to cover up the truth.

The world renowned atmospheric scientists and mountaineer, Professor Zbigniew Jaworowski M.D., Ph.D., D.Sc., chairman of the Scientific Council of the Central Laboratory for Radiological Protection in Warsaw, a man who has excavated ice samples out of 17 glaciers on 6 continents in his 50-year career, tells us to get ready, to get the fur coats out, because terrestrial cooling is on the agenda of the universe. The return of the Ice Age is near.

He warns that solar cycles, not CO₂, determine the climate of the Earth, and that the duration of those cycles is predictable from historic data since the cycles occur with "some regularity" divided into roughly 90,000-year ice age periods and 10,000 year interglacial warm periods. Professor Zbigniew Jaworowski points out in a 2003 article that the historic average duration of the warm-periods has already been slightly exceeded by about 500 years (or 5%) by our present interglacial warm period. He also points out that the transition periods are typically short, in the range of 1-50 years and begin without warning. He makes no predictions when this will happen, but points out that other climatologists claim that the transition will likely occur in 50-150 years. He points out further that Russian physicists from the Institute of Solar-Terrestrial Physics in Irkutsk have observed a close response in global temperature to fluctuations in solar activity cycles that have been traced since 1882. Scientists at the institute have also noticed that the current 11-year solar activity cycle is weaker than the previous one, with a high probability that the next two cycles will be weaker still, resulting in reduced global temperatures in 2021-2026. Jaworowski suggests in his article that the gradual shift to colder climates may have already begun a few years ago since the measured annual average air temperature in Irkutsk had peaked in 1997 at +2.3 degree Celsius and dropped to 1.2 degrees in 1998, to 0.7 degrees in 1999, and 0.4 degrees in 2000. Jaworowski's suggestion is that we are facing the greatest challenge in human history with the transition to a new Ice Age, which of course is inevitable, but which will render large portions of the world's food-growing areas inoperable. *(Based on Jaworowski's article in: 21st Century Science and Technology, Leeburg Virginia., Winter 2003-2004 - See web link below - "[The Ice Age Is Coming](#)" by Zbigniew Jaworowski, M.D., Ph.D., D.Sc. - pdf format)

The big moral question is, how do we respond to that? A technological response in terms of creating indoor agriculture is achievable. It may take a 100 years to implement, but it is

achievable. However, that achievement is not possible without a strong moral foundation to support it. This foundation doesn't exist at the present, but appears to be attainable, although not without a dedicated effort to do so. The big question therefore is, are we willing to make the effort? Or do we rather aim to kneel before God, begging that God will save us the effort while we continue, almost globally now, to rob our neighbor in a growing rage of wealth-building greed, kill our children at the tune of 50,000 a day with our home-spun global poverty, and continue to build ever-more nuclear bombs while we keep our hearts and our hands closed to those who would elevate mankind?

If I was God in such a situation, facing that kind of petition, how would I have to respond? Would I not be responding by pointing out that mankind has already been provided with all the resources it needs to save itself from the coming Ice-Age cooling by protecting its agriculture in indoor facilities, or by creating synthetic food resources? I would point out that nothing more is needed than what mankind already has at its grasp. I would point out that the needed spiritual-scientific resources have already existed for a hundred years, with which to activate mankind's physical, scientific, and technological resources and its capabilities to overcome the ferocity of the coming cold spell.

I would also point out that those spiritual-scientific resources had already existed prior to World War I and would have been sufficient to prevent it, and to prevent World War II as well, and the Cold War, and every war thereafter, but which have not been prevented, but have altogether trashed the human world more deeply than people generally realize. I would also point out that the concerned scientists of humanity are not engaged in scare-mongering, who warn society of the challenges presented by the dynamics of the ice-age cycles that have persisted over the last 2 million years. If one would call that scare-mongering, one would have to say the same about God who predicted to Abraham the impending doom of the city of Sodom according to an ancient allegory.*(Genesis 18:16-33)

The biblical story of the demise of Sodom, in the form of this allegory, tells us that Abraham ventured to reason with God, suggesting to God that the city of Sodom should be saved if fifty righteous people could be found therein. God agreed that that this would be sufficient to save the city. We are told that Abraham had his doubts, though, that those fifty would be found. So he suggested a lower number. What if only forty-five could be found, or perhaps just thirty, or twenty, or only ten? In each case God affirmed that this would be sufficient to save the city.

In the scientific sense a single person would be sufficient if that person could cause society to revert from its self-destructive pursuits, provided that society had an ear to listen with, and an eye to see the reality before its face. A single person would have been sufficient under those terms to have caused a renaissance revolution, by which the disaster would have been averted. As it was, in the case of Sodom, not even that one person existed or couldn't get the required support, or society didn't have an ear to hear, so that the destruction of the city occurred on schedule as it had been projected by God.

The allegory is interesting in terms of the principles it brings to light. In historic terms the city of Sodom may have been one of the rich cities of the plain in the Jordan Valley, which all perished in a natural disaster and now lay deeply buried below the lower end of the Dead Sea. The city of Sodom, by all accounts, was symbolic for the arrogance and decadence of wealth, so that its destruction is conveniently construed in historic records as the some form of divine punishment. Except, Abraham had raised the platform higher, in which vengeance doesn't have a ground to stand on. Since the Jordan Valley is the boundary zone of the Arabic and African tectonic plates there may have been minor tremors along this fault line, long before the big one hit. And by all accounts it was a big one, probably accompanied with massive gaseous emissions. Researchers suggest that the area remained unoccupied after the disaster, for 600 years.

The Abraham-Sodom allegory might have actually been a story of a struggle by Abraham to get an intelligent response to his warnings about what he might have sensed of an impending danger. If the societies in those cities had been intelligent, rather than being mired in greed and anchored to their wealth, the populations might all have been saved.

Right now mankind is in a similar situation. Many tens if not hundreds of billions are spent each year around the world on the destabilization of other nations, causing wars and destruction and human misery on an epic scale, while hardly a few pennies are spend on building the foundation for establishing the brotherhood of all mankind on which the future existence of mankind absolutely depends. In Abraham's time it might have been possible to abandon the cities in the plains, and for the people to resettle on higher ground. This would have provided a simple solution. In Ice Age terms, the modern equivalent would be for society to abandon its greed-based fascism mired in private wealth, and step up to the higher ground of the Principle of the Universal Brotherhood of all Mankind. On this platform the needed infrastructures can be build, and this just as easily as the cities of the plains around Sodom could have been relocated.

We are told that in the ancient days the needed intelligent response hadn't been forthcoming. I like to assume that our modern response will be more intelligent than that. I like to assume that our moral platform is still high enough that mankind is not willing to gamble with the life of 99% of its future population on the off-chance that the next Ice Age cycle won't happen, or won't be as severe as those in the past, or will be delayed by another ten-thousand years, so that mankind can keep on hating each other, and steal from each other, and kill one another in wars.

The irony is that creating the Ice Age Renaissance that everyone stops their ears so as not to hear about it, would create the richest world ever imagined as a stepping stone to achieve the Ice Age essentials. The only price would be for society to trade in the privatization of wealth for the Principle of the Universal Brotherhood of man, which is something that the society of Sodom had evidently not been willing to accept.

Christ Jesus, who had been no stranger in this valley of folly, was certainly justified in saying to his disciples: "I say unto you, It is easier for a camel to go through the eye of a needle, than for a rich man to enter into the kingdom of God."*(Matthew 19:24)

His observation evidently applies to a society as well. The furious privatization of wealth in today's world, which is on the fast track of destroying civilization, versus the development of the universal wealth of society and mankind, is presently the single most important blocking factor that prevents the needed Ice Age Renaissance from being initiated. This single factor stands as the chief blocking factor, because it stands in total denial of the divine Principle of the Universal Brotherhood of all Mankind. Without the moral foundation built on this Principle that reflects divine Principle, mankind stands doomed by the Ice Age as the needed response to its challenge cannot be attained without this moral foundation. No form of the privatization of wealth could ever support the needed 100-year development cycles on the gargantuan scale that will be required. This page of history on which the privatization of society's wealth plays itself out, and has for many ages, comes to a close with the close of the current interglacial epoch, one way or another.

Our only choice is whether we wish to see the next page, or whether we wish to let the human cycle end altogether. My take is that we will come away from this choice with the brightest future that rightly defines mankind as the reflection of God. The bottom line is that the self-extinction of mankind in the next Ice Age transition is preventable and that the foundation for this prevention is primarily a moral foundation that we have the capacity to build with the power-tool for such building, which is Mary Baker Eddy's pedagogical structure of Divine Science. When Christ Jesus said to his disciples that it is easier for a camel to go through the eye of a needle than for a rich man to enter into the kingdom of God, his disciples were exceedingly amazed, saying, "Who then can be saved?" His reply was that "with men this is impossible; but with God (coming to light in Divine Science) all things are possible."

On this note, the next Ice Age transition promises to be a none-event. We will be ready for it for the first time in human history. It will also turn out to be the greatest blessing we ever had, at every step along the way.

Some website references:

"The Ice Age Is Coming" by Zbigniew Jaworowski, M.D., Ph.D., D.Sc. (pdf format)

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Snowball earth

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Introductions to what we know about the global climate

<http://muller.lbl.gov/pages/IceAgeBook/Chapter%201%20html%20old>

... [the history of climate](#)

... [ice age theories](#)

... [spectra](#)

Historical estimates of world population

<http://www.census.gov/ipc/www/worldhis.html>

More works by Rolf A. F. Witzsche

Selected stories from the series of novels
The Lodging for the Rose
and from other novels by Rolf A. F. Witzsche



A selection of love stories and stories about love

The primary focus is on the Principle of Universal Love in social relationships.



Stories focused on healing

The focus for healing is wide-ranging, from bodily healing to the healing of perceptions, limitations, small-minded thinking, etc..



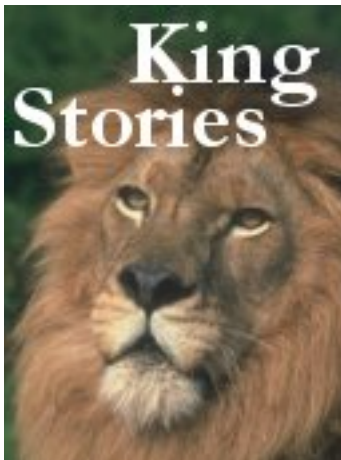
[War Stories](#)

There are many types of wars being fought with the ferocity of lightning that flashes brilliantly until the driving energy is spent. Then peace resumes.



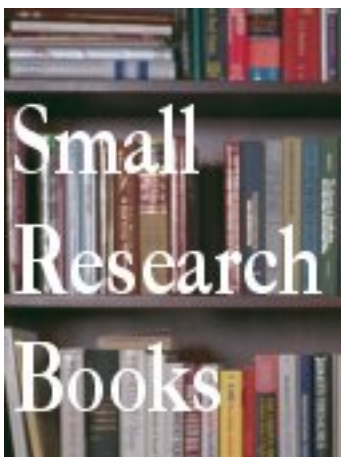
[Stories about sex](#)

While the focus is on sex, the explorations focus on a passion for love in a higher sense than erotica, opening to the Principle of Universal Soul reflected in the brotherhood of all mankind as human beings.



[Oh, to be King for a day!](#)

If we had the power to change the world, how would we change it? But don't we have that power already in our hand?



[A selection of 'small' research books](#)

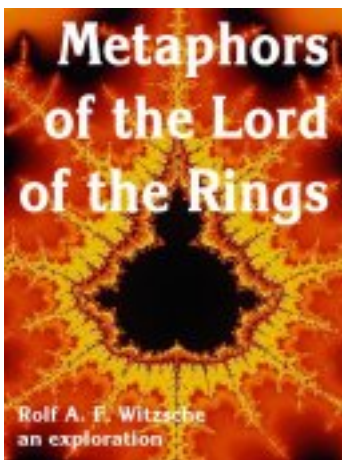
These are none fiction books on a variety of research subjects.



Discovering Infinity - a major series of research books

The series is exploring the principle for healing in economics, civilization, religion, and scientific spiritual metaphysics.

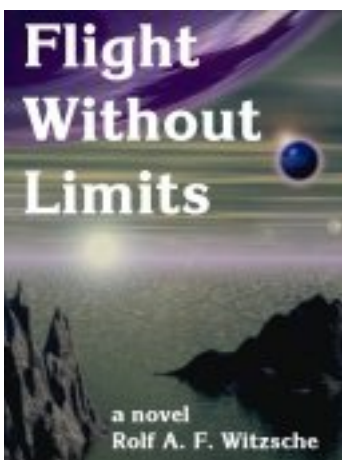
Political exploration



The Lord of the Rings' Metaphors

It is a rare thing in literature that one finds a tale written a long time ago that is reflected in the present to such an extent, that it seems the writer had created a script for the future and the future has obeyed. Such a thing can be said about the story of J.R.R. Tolkien's mythical tale, The Lord of the Rings.

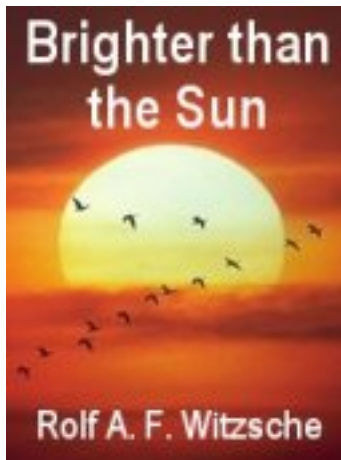
Novels



Flight Without Limits

(science fiction)

The novel is a science fiction work with a touch of reality. It is about a space voyage to Alpha Centauri, the nearest solar system to our own. But in metaphor, the novel is rally about being able to move mentally without limits. Physically we may never be able to overcome all limits, but what would hinder us to break all limits mentally?



Brighter than the Sun (playing with nuclear matches)

This novel has two opposite centers. One reflects the tragic domain of our nuclear armed world, and the second the domain of spiritual freedom where old axioms become discredited and fall away while love unfolds its universal face. Will the latter prevail?

The Lodging for the Rose a series of nine novels



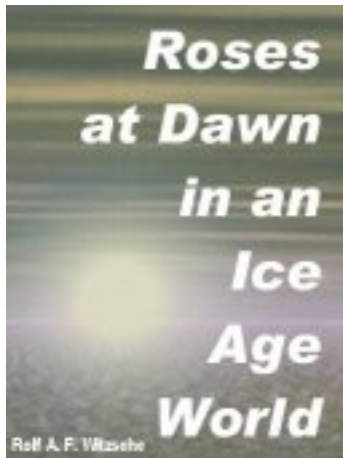
* Episode 1 - Discovering Love

Here begins an epic story that spans eight novels. The subject is freedom powered by universal love, the largely unexplored 'country.' Few people have dared to cross its borders and travel its landscape.



* Episode 2A - The Ice Age Challenge

"The Ice Age Challenge" refers to the challenge that we face to create a new foundation for living when the coming Ice Age climate shuts down most of the world's agriculture. The resumption of the Ice Age could happen possibly 100 to 150 years from now. It may take that long to build the vast facilities that will be needed to feed the world from indoor agriculture. But is our love big enough that we can achieve the physically near impossible in order to assure a future for mankind beyond the space of our time? What limits would we put on the dimension of universal love? It appears we are in a triple race to meet all of these challenges. The big question is, do we have the skills to stay the course?



* Episode 2B - [Roses at Dawn in an Ice Age World](#)

With the Ice Age resuming 100 to 150 years from now we are challenged to embrace the still rejected renaissance principle, the Principle of Universal Love, without which mankind may not survive. But will we be able to upgrade our human dimension sufficiently to accept the Principle of Universal Love and to reflect it in our daily living? God is Love, universal divine Principle. Do we dare to love universally in the social domain? Or do we pretend that the divine Principle of Universal Love doesn't apply there, especially when it comes to our personal loved ones and friends?

[For more books by Rolf A. F. Witzsche see home page](#)

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