

There are three great themes that have run through the history of all life on this planet for the past three billion years.

They are: Accuracy, Helpfulness, and Purpose.

The first two, Accuracy and Helpfulness, have been scientifically shown to be fundamental structures of this bioecosystem, and all life within it.

It was Bertrand Russell, the famous Harvard mathematician, who proved, scientifically, the fact of accuracy as bottom line, ecosystemic structure.

And it was Charles Darwin, the famous British naturalist, who proved, again scientifically, the fact of helpfulness as yet another bottom line ecosystemic structure.

Purpose, has not yet, to my knowledge, been scientifically proven, however, in the Western world, certainly since the days of the famous African humanist, Jesus Christ, all societies on this planet have strongly sensed its presence. The scientific proof of Purpose, is still to come, and come it will, for such is the way of this bioecosystem, and humans within it.

In the current period, the most recent five hundred years, perhaps the single most important development pointing the way toward sorting out the great problems of humanity, was an event generally known to historians as The French Revolution.

While the French revolutionaries did indeed seek to reverse the destructive tide that humanity has ridden for the last several thousand years, and set us all on a helpful course, they did not, in fact, 'crack the case'.

Their famous slogan, "Liberte, Equality, Fraternite", as it turned out, was not a universal statement of the pathway that must be understood for the great problems of life to be sorted out.

Rather, it was only a helpful reaction to the terrible circumstances then obtaining, but one that fully skirted the fundamental Accuracy, Helpfulness, and Purpose issues that must be addressed. It was a cry for relief from pain, rather than an ongoing, for all, solution.

This website, and the project which it represents, directly addresses a sorting out of the first two great bioecosystemic gridwork issues, Accuracy and Helpfulness, and points the way towards an understanding of the third.

As regards the Accuracy property of this bioecosystem, it is perhaps best seen by imagining putting two (II) same things next to three (III) same things. Putting them together, the result will always be five (IIII) same things, as long as the units remain the same as each other. It will never result in seven same unit things, nor twenty-eight, nor four. This is the same all over the world, in mountain and dessert, in Asia, and America, and Africa, and through all time, all cultures, going back four billion years. It was true before there were humans on this planet, and it was true before anyone could even understand that. No other creature can understand that, although all humans are endowed with the ability to understand it. This is referred to as a property of the single, primary reality of this bioecosystem.

We know that it's true, because that result, $3 + 2 = 5$, has come up consistent, one million times out of one million, and indeed one billion times out of one billion. While it's true that only humans can consciously understand that, DNA has operated on that consistency and accuracy basis for some three billion years, and humans for some three million. Singular accuracy, the same for everyone, constant for all time, consistent with everything else that's true, and fully knowable to every human being.

Some people refer to this as an 'ethereal', or 'symbolic', or 'abstract' notion. However. When something comes up absolutely consistent, over millions of tries, we know it is 100% accurate, as certain as we know that that the ground that we are walking on is solid. We stake our lives on consistent accuracies like that, thousands of times every day. And we live for many decades, proof of singular reality, and of our ability to understand this property of Absolute Consistency, and Accuracy, another word for which, is truth.

As regards the Helpfulness property of this bioecosystem, it is perhaps best seen by recalling the fact that every atom in every cell of every organism, must be constantly replenished by healthy organisms and nutrients all around us, all the time. Were any organism to be unable to get help from the world around, to replenish every atom of its body, that organism would cease to exist instantly. Darwin's great discovery was that every animal only exists so long as it continues to constantly get massive assistance from its environment. He proved, scientifically, that the way that nature advances, is that those organisms that properly and Helpfully contribute to the survival of other organisms, survive over time.

Thus, the properties of Singular Accuracy – as in the 3 plus 2 equals 5 example – and of Helpfulness – as in the 100% dependency of every organism on other organisms, are self-evidently proved, scientifically, to the absolute satisfaction of the cognitive mind of every human being. Of this, there can be no question.

As regards the Purpose property of this Bioecosystem, that is indeed not yet scientifically proven, however the outlines of that proof can already be glimpsed. (See the reverse side of this leaflet.)

Political History As I Understand It (*My God, we're so close*)

The Dream Time, Again (*projected*)

300 years from now	routinely cruising the beyond
100 years from now	Three Whole Generations In Health, Vitality, Affection, and Wonder
now	Intelligence Applied, The Cure, 6 Billion Healthy, Vital Persons Wide, And Onwards

Rule By Bullies

1 hundred years ago	Major Efforts at Communist Revolution
5 hundred years ago	Joan Arrives, God Sends a Messinger (better late than never, God)
5 thousand years ago	written history
10 thousand years ago	a correctable mess

The Dream Time

12 thousand years ago	Early Farming Society, Stability, Vitality
30 thousand years ago	Famous Cave Paintings
100 thousand years ago	Me, Us, Girls, Modern Times
200 thousand years ago	Neandertal
500 thousand years ago	Controlled warmth, fire, shelter
1 million years ago	Homo Erectus, worldwide human evolution
2 million years ago	Habilis, Tools, Clothes, Communication
3 million years ago	Lucy, First Human Like Creature, Affection

We Can Work It Out

15 million years ago	dolphins in current state
40 million years ago	whales into the ocean
55 million years ago	Earliest Primates

Café life

65 million years ago	large dinosaurs becomes extinct
100 million years ago	oldest placental mammals
220 million years ago	Oldest Mammals, Controlled warmth
300 million years ago	amniotes evolve herbivory

Red Star Over Devonia - Storming the Banks - Waving Red Flags and Chanting Slogans From Chairman Mao And Martin King

350 million years ago	Tetrapods From Water To Land, Room To Breathe, To Touch, To Build, and To Behold
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The Struggle - God Becomes a Photographer - Photo Etchings Become A Planet Wide Nervous System

400 million years ago	first jawed fish
460 million years ago	earliest millipede tracks on land
480 million years ago	Earliest Known Land Plants
500 million years ago	First Fish
550 million years ago	Oldest known vertebrates

Cutie-pie Wittle Aminals

1 billion years ago	Multicellular Animals
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Origins

3.8 billion years ago	Oldest confirmed signs of life
4 billion years ago	Proteins, Replication, The Birth of God, And The Committee, Let's Do Something
4.5 billion years ago	Earth Forms

Early Days

15 billion years ago	The Big Bang
Before 15 billion years ago	The Beyond

Note on this chart:

The way I made this chart, was, I looked over the chart on page 239 of Carl Zimmer's book, *Red Star Over Devonia*, I mean, no no, how silly, that's not the title, he never touches politics, wait a second, here it is, it's "At The Water's Edge: Macroevolution and the Transformation of Life", that's it, (Free Press, 1998), and then I copied some of the events from the chart, leaving the dates intact. I then simplified and dramatized some of the descriptions, added some recent stuff, and worked out the period titles.

I guess you might say, very very metaphorically, that Zimmer provided the basic paleontological vertbrate, and I filled in the historical creature around it.

"At The Water's Edge: Macroevolution and the Transformation of Life" (circa 350 million years ago, and circa 40 million years ago) was actually a kind of fascinating paleontology book, especially, among other things, the part about the hox genes.

And especially too, the thought of those tetrapod creatures climbing up on the banks those first few million years, to be greeted by wonderous air, light, and touch, was something I actually found sorta thrilling. And naturally, being me, political, artistic, medical, social, romantic, mathematical, and Beatles metaphors came to mind.

But then again, maybe I'm just prejudiced in liking the book so well, as the author is just a kid, from Brooklyn, and I maybe felt just a touch of homeboy pride.

for:
Stephen Jay Gould

A profoundly helpful person, whose book, *Marrakech*, I was reading carefully in the weeks prior to creating this chart. I especially loved the chapter on Lavoiser. Sweet integrity, we're all on the same page on that, through all the ages.

It may have been Steven, who provided me with the major framework for this sort of history thinking. A sense of it.