

## Mankind's terms of reference must be the Galaxy and the Solar System

*Excerpted discussion from LPACTV's Weekly Report with Lyndon LaRouche, Sky Shields and John Hoefle, Wednesday, March 23, 2011*

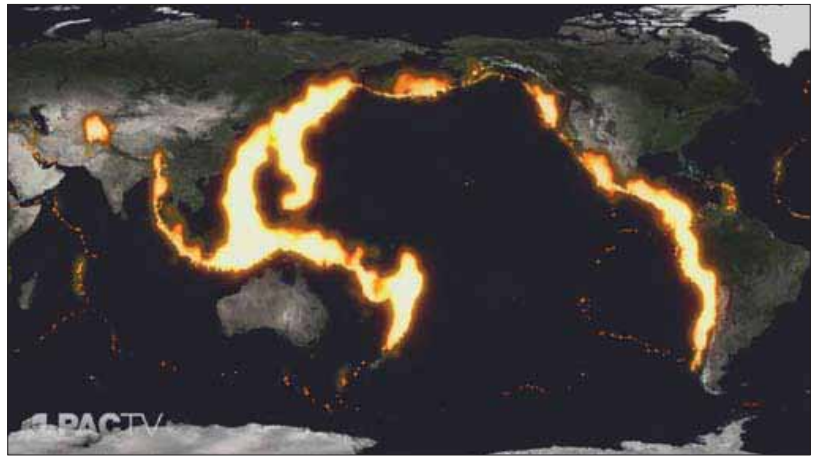
LYNDON LAROUCHE: We have to, at this point, get beyond the usual kind of discussion, because people out there are going to have to get some ideas that they're not accustomed to. Because without those ideas, you can not understand what is happening to the world now... We're getting to a territory that the public in general, even much of the scientifically trained public, has no comprehension, of what some of the crucial factors are, that will determine the existence or future of Earth and people on it, in times to come.

That is to say, that we live inside a galaxy. Now, most people don't even know what a galaxy is. But the galaxy we know now, and the scientific evidence proves, that the galaxy and long-term cycles in the galaxy, actually exert control over the Solar System, and therefore on Earth. And we have, inside the Solar System, we have similar kinds of considerations, where the powers and forces that are operating, to determine the fate of humanity on Earth now, are forces and conditions, which are beyond the comprehension of even most scientifically-trained people—they just "didn't study that stuff," shall we say.

So we're getting at this point, where we have to intrude on this area, because, why? The major factors that are determining the fate of Earth, right now, go into factors which deal with a cycle located inside the galaxy, not inside the Solar System. That is, there are forces which act, from the galaxy, on the Solar System, which in turn determine things on Earth. For example, the most recent developments, and what are probably the likely outcomes of these recent developments, as in what happened in Japan and so forth, these developments are actually products which are influenced by galactic forces, as opposed to something radiating from Earth, or from your neighbor's bad breath, hmm? These are the kinds of considerations we have to understand, to understand what is happening to us on Earth, now.

The other side of this, which I think is the more awesome side than the formal scientific explanation, because we can have the diagrams, we can give you a picture of the galaxy—we have pictures of the galaxy, good synthesis which will illustrate that; we have good pictures of the Solar System; good pictures of all kinds of illustrations of that sort, which will give you an idea, of here's "little we," here on "Little Earth," inside the giant Solar System, relatively speaking, but in with the Solar System is merely an accessory, of a giant galaxy, and it's the forces in the galaxy, which we know, already, scientifically, these forces in the galaxy are the things that determine such things as, really, the weather and similar kinds of things on Earth. And therefore, in coming times, we're going to have to spend more effort on educating a more general public, on an understanding of what is the crisis we're facing now.

That is to say, what we're looking at now, the question mark which we're dealing with from the Basement, for example: We understand some of these galactic forces. We understand, from the work that's been done on the history of life on this planet, in recent billions of years, we know some of the forces that control life on this planet, far beyond the imagination of most people, but to get a real comprehension, of the galactic forces which are controlling, by this escalate from the galaxy, down to the Solar System, from the Sun within the Solar System, which is the major force here, down to conditions on Earth, that relationship is not



The Pacific Ocean Rim of Fire is an extinction threat to mankind, because we don't yet fully understand the way galactic and solar processes trigger its powerful and deadly eruptions.

understood, or it's considered so mysterious, "I can't consider it," is the usual kind of response to it. And we have to educate at least leading circles, who are decision-makers in policymaking on the planet, to understand this, because we're now faced with a period of uncertainty: We don't know, now, we can not say, now, that we can guarantee, that humanity will continue to exist, in the outcome of the present cosmic processes going on. We can't say that. We think it's probably true, but our practical action is to consider these problems, and to define what measures, as policy measures, mankind here on Earth must take, in order to deal with the uncertainties, which are imposed upon us, by galactic forces, which are in turn controlling this solar cyclical forces of the Solar System, and therefore on Earth.

This is the kind of area which we have to get into. Now, Sky and others, and the team, the Basement Team, has particularly since the summer of last year, has been plunging ahead, more and more, into things bearing on this. Our work on the development of the NAWAPA system, has been an inspiration for us, in going directly into the considerations, the galactic considerations second, but immediately the Solar System that affect what this is. For example, we want to know how—building NAWAPA, what we want to know, as we're considering now, how the vast masses of water, being accumulated in the great trench, in the Rocky Mountain Trench, is going to affect the tendency for earthquakes, formed locally, by the pressure of this water, in the Rocky Mountain Trench.

So, we are now at a point, where, looking at anything on Earth, we have to get off this parochial sense of "Momma n' Poppa store thinking," and understand that there are galactic forces, which are in a sense in control of solar forces, which are controlling the preconditions for man's condition on Earth today. And right now, we're in a global crisis, as this pattern of this Rim of Fire in the Pacific warns us, and as we look at the extension of a cycle, from usually an 11-year solar cycle, now to a 13-year solar cycle, with much more powerful forces implied, in the 13-year cycle, than we faced in the 11-year cycle: We're faced with a real challenge. We don't know the answers; we know some of the questions, and we know the direction in which we have to go, to find something that approximates answers.

SKY SHIELDS: Okay, yeah, it's significant to take a look at. First, people should get a real sense, in the wake of what happened with

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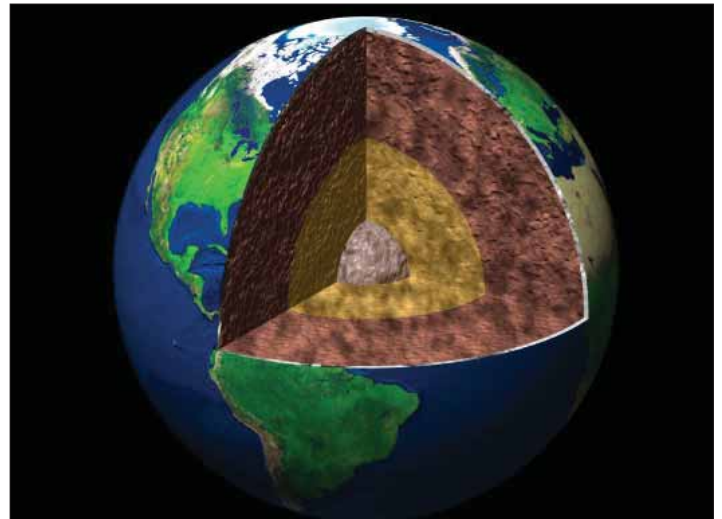
this earthquake and then this follow-on tsunami in Japan. There's been a lot of reports, as Peter Martinson just recently reported, which have been predicting, based on fairly reliable methods, follow-up earthquakes for North America, for South America. In discussing this, it's significant, I think, for everybody in the audience watching this, to get an idea of how little we know, about what actually takes place inside of the Earth. It's been said before, but I think it's worth kind of drawing out in a visceral sense, that we've explored more of outer space, than we have of even the bottoms of our oceans, much less, deep, deep inside—anywhere beyond any kind of depth into the Earth's crust.

We were looking at this in the Basement the other day, just to get a quick idea, that if you were to take a human head as the model of the Earth, and you were to compare how deeply we've been into it in exploration, we'd get roughly, not even quite the full depth of a skin cell, in the surface of that head: That's how *little* we've explored of the actual Earth itself. And to think of what extrapolations are being made, for the sake of creating a model, that would let us place the causality for all sorts of phenomena deep inside the Earth. I mean, there's a real push to try and say that we know, for instance, the source of the Earth's magnetic field. We don't; people have been drilled a lot with this model, that people have seen—it looks sort of like a gobstopper, one of these little layered [spherical] candies that you eat; people have been drilled with that image. None of that is known! And in fact, given the kind of interaction that you're seeing now, it's becoming more clear now, with the Japanese earthquake, between Earth and the Sun; between the Earth/Sun system and then the larger galactic processes as you identified. It's becoming more and more clear that that model is likely very, very wrong, beyond oversimplified, just flat out wrong.

People have seen a similar model, gobstopper style, presented for the Sun, also. And it's significant to know, again, that's not known. Likely as a model, it's simply very, very wrong. What you have there is not some sort of—based on its interaction with living processes, you can say definitively, that what you have inside there is not some process that you'll be able to explain, given what's known in the science of electrodynamics, thermodynamics, or physics. You've got a process that much more closely mirrors, in its entirety, living processes and cognitive processes, in a very specific way, in that they express the characteristic anti-entropy of particularly cognitive processes, with the distinction that, on the scale of the Earth, the Solar System, and the galaxy, this anti-entropy is not wilful; but aside from the wilful character of it, it agrees in character, with the kind of creativity that you would see otherwise in a human individual. So that forces us to try and really rethink what we know about these models, for what's happening inside the Earth? What's happening inside the Sun? And to rely on certain things that we *do* know.

So the idea right now is to scrap [the silly models], and to say, "Well now, what *do* we know, about these processes? What *do* we know about the processes that are generating earthquakes? What *do* we know about volcanism on the Earth?" And that just requires to pull back... and get a much broader view of the development processes of Earth's Biosphere, but particularly to its connection to processes on a galactic scale.

Now, this means, that whatever process you have inside the Earth, that's generating all this volcanism, that's generating all tectonic activity, it's something that's sensitive in its character, to that sort of long-term motion on a galactic scale. So we have that correlation as a known, as something that's absolutely clear. But then, that same 60-some-million-year bob, is correlated to evolutionary transformation on the surface of the Earth. That is, if you make a



The "gobstopper" model of the earth, which hasn't been proven, and consequently doesn't explain tectonic activity and volcanoes.

map of what's called the "biodiversity," the number of distinct types of organisms living on the planet—this is on the level of just above species, but the genus, so you're measuring the number of genera, genuses, that live on the planet at any given time, you see overall a general increase, a general uptick. But within that, you can find embedded, a cycle of increase and decrease, steady increase and decrease, which matches exactly, this same cycle of the volcanism, the volcanic activity that you see on the planet.

So that it gives you the indication that whatever this process is, that's operating inside of the planet, it's something that's very closely related to biological processes. And so, any attempt to try and explain this solely on the basis of an abiotic physics, is wrong. Any attempt to say that this is something that can be subsumed by the known laws of thermodynamics, electromagnetism, mechanics, is wrong on the face of it. It's a superstitious approach to behaviour on our planet.

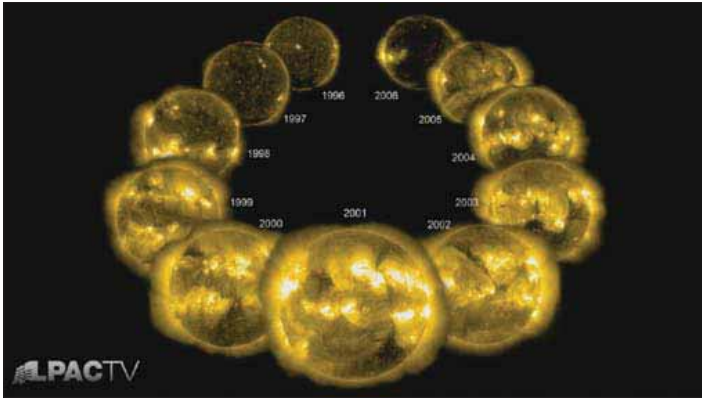
So then the question becomes, well, what sort of correlation—what kind of causality could you hunt for, that would account for that kind of correlation? This we don't know. Again, we know so little about what actually is happening inside, we couldn't tell you exactly what the causality is, but we can find other correlations there. And the one that jumped out most clearly in the case of this recent humanitarian crisis in Japan, is that the same kinds of tectonic activity we saw in the 62 million-year cycle is correlated to the same sorts of fluctuations we have inside our Sun. And this brings the necessity, if we're going to be able to avoid these types of crises, it requires a transformation in the human knowledge of our approach to these kinds of studies. Instead of simple model-



The "bob" of our Solar System above and below the plane of the Milky Way galaxy, is a 62-million-year cycle which correlates with the cycle of mass extinctions on earth (red line).



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The major earthquakes of the past 15 months, beginning in Haiti, and now, New Zealand and Japan, are coincidental with the Sun "waking up" from its dormant period. ling, there needs to be a whole battery of new experimental work done in this area.

LAROCHE: Yes, that's exactly it, exactly the process. We're not thinking in terms of a universal system; to the degree we can think of it, we're not thinking in those terms. All the models that are being used are, as Sky has indicated, are rather superficial, if not absolutely silly. And thus, here we are, mankind, a known species, known to us, we don't know yet of any species living outside the Solar System, or even within the Solar System, which is comparable to the role of mankind. Mankind is unique in the sense that even though most people don't know it, there are creative processes in the human mind, that don't exist in any other known living creature! And our behaviour on this planet, and this Solar System is dependent upon this creativity which is uniquely specific to the human mind. Most of the stupidities we get in terms of policy-making, are people assume a mechanistic conception, or an animal like conception of human life and look at man as an animal.

For example, one of the reasons for this, it's obvious, is that we don't have, really, any generally accepted science, which goes to the principle we know is true of this universe. That is, the principle of life, as typified by human life, that is life as defined by human creativity, which is a form of activity and potential which does not exist in any other known species. There's no species that has a behaviour and capability comparable to mankind.

Now, what we don't know, since we find that mankind is somehow limited to this Solar System, as we know it, and since no other species that we know, on this planet is capable of the distinction, between mankind's mind, and that of the beast! No animal has human qualities! None! Monkeys are not that. Maybe some of our Presidents are in that category of monkeys, but not really intelligent people.

So the question it poses to us, here we are, inside the Solar System, we live inside a galaxy—we're not independent of the galaxy, it's not a neighbour, we're *a part of the galaxy*! Our existence depends on the galaxy. And when you look up at the galaxy these days, the first thing you think about, is the Crab Nebula. And the Crab Nebula was once a sun, which exploded in the middle of this galaxy, hmm? And the strongest single source of radiation hitting us regularly, periodically, is the radiation from the Crab Nebula, which now have some understanding of.

So here we are, and the Crab Nebula has characteristics which do not correspond to any known physics. That is, the Crab Nebula has characteristics

which exceed a limit called "the speed of light," hmm? So, here we are in this very strange, this galaxy which has within it, something which emerged at known time, of human beings' experience, we have this Crab Nebula, right in the middle of this thing! And this thing defies the idea of a speed of light, as a controlling factor of the universe, even the galaxy!

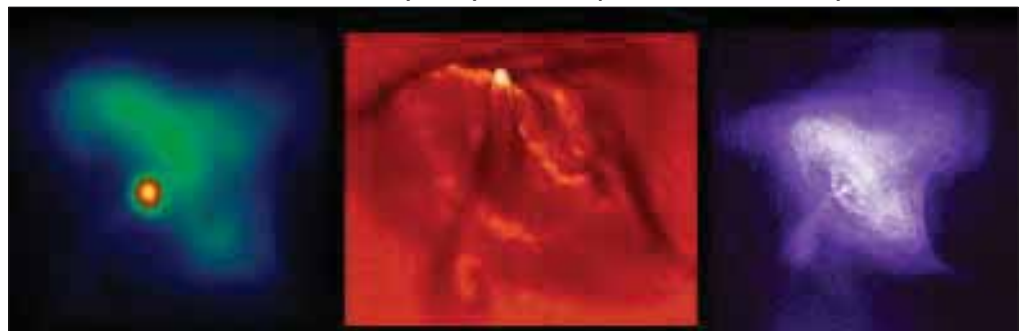
And we as mankind can understand that. But the problem comes back to us: we are now in a situation, where the recent developments warn us, that the forces at play inside the Solar System, could destroy virtually, the Solar System, but at least could destroy life on Earth, man's life on Earth. And we say, here we are, we're the only phenomenon in this universe, known to us, which is capable of actual, conscious creativity, intentional creativity. The universe is creative, it's always creative. There's no such universal entropy. But mankind is the only being which has the wilful powers of creativity, which distinguish mankind from other species.

And the existential question which confronts us, when we're considering this kind of thing, we just saw a warning, from the Japan crisis. We saw a warning, that the forces at play, in increased degree, now, within the Solar System as controlled by the galaxy, these forces are capable of destroying the existence of human life on Earth. And therefore, that's the existential question. And therefore, our concern is to condemn our own ignorance, our own negligence of the kind of knowledge we need, because we know, if we can understand these forces adequately, we have a chance of discovering what to do about it. The human mind is the most powerful thing we know in the universe, in terms of any kind of creature. We don't develop and don't use the human mind, as a creative force. We use it in silly ways. But once we see what the human mind can do, that no other species known to us can do, in terms of creativity and effect on the universe, we say that if man can accelerate our progress in development, sufficiently, we can develop the capability of dealing with these kinds of forces.

SHIELDS: It's funny, if you can scrap the idea of empty space, and then bring in the idea that what you're actually looking at, is—I mean, the analogy to a cell is a useful thing. If you look at a cell, your inclination, looking at the cell is, that you've got this thing there, it's filled with some kind of fluid, I don't know what it is; and then in between that, there's these objects that are floating around. But then, the more you look at it, the more you realize, "Hey, wait a minute! That fluid that I thought was the background, is what's moving everything!" It's accounting for all the motion, it's accounting for the motion of the cell itself. But, me, being silly, studying the thing, I was ignoring that, because I couldn't see it. Everything else stood out to sense-perception.

But then, you take a look at our Solar System, our galaxy, but then on an intergalactic scale, and the you start to see the exact same thing.

Funny story, and this speaks to how woefully behind we are,



Three views of the Crab Nebula: left, an infrared image showing the intense energy of the central neutron star; middle, a 3D image also showing the energetic neutron star; right, an X-ray image, showing the jet of high-energy radiation emitted by the neutron star, which regularly bombards the earth.

on a technological level, being able to deal with these things, the powers we've learned to wield thus far, and then how silly some of the emphasis is, misdirected emphasis is, with the Japan situation. In the last '60s, during the whole beginning of the [nuclear weapons] test ban period between the U.S. and the Soviet Union, we launched a series of satellites up, that were designed to look for the gamma ray bursts on the ground, that should indicate that there was nuclear testing being done by the other side. So, we were looking for, what we thought were then these incredible explosions, this new technology we had developed. The satellites, as they were looking for these gamma-ray bursts, saw them, not on the ground, but coming from somewhere else out in space. We realized that we were being pummelled by these massive singular bursts from somewhere out in space. Because of the energy of the gamma-rays we weren't able to build detecting devices that were capable of recognizing where these sources were located, but we knew they were out there.

As we got a better picture of what was happening, we realized that we were being—in order for us to be hit, to the best of our knowledge right now, in order us to be hit by these gamma ray bursts, we sort of have to be targeted by them. This is not something, sort of randomly willy-nilly flying through the universe, hitting us. But we ended up happening to be on the axes of a certain specific supernova explosions. And as we began to get a closer, refined view of this thing, we realized that all these distinct galaxies, we were begin targeted by a very specific mass phenomena of energies, far, far beyond anything we could imagine, that we would even come close to generating here on Earth—we were being targeted with fair regularity, here, on planet Earth.

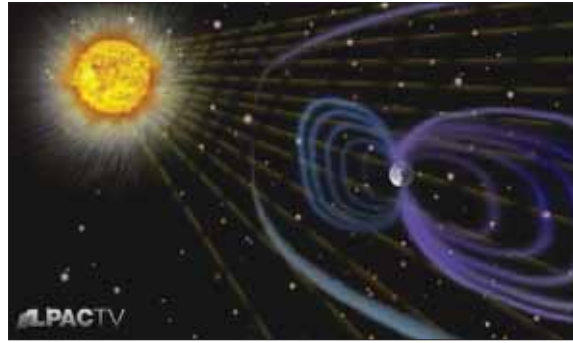
So, this makes you look back, again, to what we had on the 60-some, 140-some million-year cycle, and animal development. And you realize this is not just some cyclical thing, it's punctuated. We're looking at some kind of changing development.

LAROCHE: I was going to say, take the case of the Crab Nebula. The Crab Nebula's a perfect example of this. During the course of the 1980s, in Germany, there was developed a phase-array system in northern Germany, in the area of the plains bordering Denmark. And some leading scientists of ours were involved in that there, in Germany, nuclear scientists. And we discovered that the radiation, the gamma radiation that we were looking at, was coming periodically at us, from the Crab Nebula. And we would only get this on Earth, when we were positioned to get in the direct line of fire, shall we say, of the gamma-ray radiation from the Crab Nebula. Then we got looking at the Crab Nebula, and we tried to look at this—there are many photos of this things, many pictures of this, taken from different phased-array considerations, and we know a lot about it. But the funny thing about it, is we know that the Crab Nebula, internal Crab Nebula actions, are occurring at a rate which exceeds the speed of light. So therefore, we know that the Crab Nebula is not a fixed object, which is radiating, it's a self-changing object. Because only a self-changing object, from the standpoint of our physics would have that kind of behaviour.

If we can make mankind survive, this immediate generation, we can, within the course of this century, we have the potentiality of solving this kind of problem. This means *three generations*, three new generations, which are developing. And the three generations, when you look at the history of science, from the beginning of Nicholas of Cusa, and the history of science from that time, we can see what the rate of progress, of humanity is, in physical science, and the effects of it. We know that three generations, of the

type we have now, based on the type we have now, we could get to the point, we could solve these problems. We could then say, mankind's existence in this galaxy is now relatively secured, and we could begin worrying about the larger problems.

Go back right to the history of ancient Greece: Take the case of the Prometheus issue. The idea that you had a ruling class, a maritime power which was a ruling class, which called itself "gods." And the ordinary people were called "mortals." The "mortals" were not allowed to become a challenge to the so-called "gods." The Prometheus thesis. And therefore, the idea of the anti-Prometheus concept, is really the hatred of scientific progress. And this is what, for example Shelley's significance and Shelley's insight, as in his *A Defence of Poetry*, which he aborted for a very specific historic reason—but his insight into that, and great, other artists, whose



Mankind's understanding of natural forces, such as the immense solar energy bombarding earth, gives us the ability to control them.

insight into this, shows the kind of mind which is *free*, mankind *free of slavery*! Because human slavery, the worst part about it, is the self-induced condition to slavery, of the slave! So the main thing in history has always been the struggle to free mankind from slavery, from the suppression of the creative powers of mankind, which the ruling class, or the oligarchy, the so-called "gods," do not want the ordinary people to have.

Just like the British Empire today! Here you have, people are talking about morals, we take the case of the World Wildlife Fund. The World Wildlife Fund says that people must be, number one, stupid; the population must be kept below two billion people—we have how on the order of seven; the objective of the British Empire is to preserve the *imperial system*, not of the British people but of the *British Empire*—which is a different thing than the British people—is to keep them stupid, and keep them hungry!

The only thing we can say, that is essential to this, is you have to have a passion for humanity. And that must be the ruling factor in your outlook. It's the case: It's the ruling thing in the morality, of human beings. If we don't have that sense, we don't have a moral society. If we don't have a moral society, which shares this idea of rising ahead, of correcting our weaknesses our shortfalls. Of discovering what the universe is, of realizing that we are the human species, we have a mission in the universe. We don't know exactly what it is, but we know what the direction is, is it's working on us.

And if you tolerate this kind of thing, like the World Wildlife Fund, and its ideology, you're asking for the extinction of the human species! Not just the degradation of the human species, but *this has always been the oligarchical principle*! The ancient Greek empire, of imperialism, a maritime power on the oligarchical principle; the Roman Empire, originally, was an oligarchical principle, it's explicit! The Byzantine Empire, oligarchical principle, it's specific! Modern British Empire, oligarchical principle, again, explicit! The Green movement, it's the enemy of humanity! It's the *avowed* enemy of humanity! Because if we capitulate to it, *humanity will be destroyed by itself*!

And here we have this wonderful universe, this wonderful galaxy, with all the dangers involved in it, but we have the human potential for understanding it. And by using that potential, we have a fighting chance that the human species will continue to exist. If we don't, I don't think the human species *can* continue to exist, and we're now at a point where the very *awesome forces*, the *galactic forces* which are behind what happened, with this little minuscule taste of what's coming, in the Pacific! With that hitting us, and we are not equipped by any means, to cope with those forces! We can adjust to them—but cope with them? No! And we have to change the tune, from that of adjusting to something we can no longer live with, as a species, and trying to get to the point, where we exert control over this process, which is our proper destiny.