



From the desk of Pierre Beaudry



THE GREAT LYDIAN GALACTIC SINGULARITY OF 64/542 MILLION YEARS.

By Pierre Beaudry, 4/01/2011



“The model predicts that higher excursions of the Solar system above the galactic plane should produce more cosmic ray flux and larger biodiversity drops; this prediction is borne out by comparison between solar motion and paleontological data.”

Mikhail V. Medvedev and Adrian L. Melott.

“The Solar System has already begun to go through a great register shift inside of our well-tempered Galaxy with the purpose of producing higher living species. Will humanity be able to lead that axiomatic change?”

Dehors Debonneheure.

INTRODUCTION: THE GALACTIC LYDIAN SINGULARITY.

Planet Earth is currently going through an existential crisis which is both physical and epistemological in character. Geological signs of this crisis are already visible in the volcanic activities along the Rim of Fire of the Pacific Ocean, and in the political and financial crisis occurring simultaneously around the planet. This multiple crisis is affecting both the Biosphere and the Noosphere in such ways that there is no guarantee that humanity, as a whole, will be able to successfully survive the immediate period ahead. Although it is likely that it will survive, it will have to be by going through some very severe moral, political, and epistemological changes that must begin to take place, right now, under some crucial axiomatic stress of human cognition.

There is no guarantee that this axiomatic change will be successful in fact, but it will occur under the most exciting conditions that mankind has ever witnessed in its entire history; that is to say, under the combined correlations that exist between the Galactic forces of cosmic bursts coming from inside and outside of our Milky Way, and by renewed bursts of collective human creative powers surpassing the great Italian Renaissance of Nicholas of Cusa and Leonardo da Vinci. In other words, the shock that will soon impact the earth as a whole will require a new way of thinking that is only known to a few people on this planet at this time, but which will soon become common knowledge of galactic thinking. The good news from *The Daily Galaxy* is:

“As the Sun ventures out ‘above’ the galactic plane, it becomes increasingly exposed to the cosmic ray generating shock front that the Milky Way creates as it ploughs through space. As we get closer to this point of maximum exposure, leaving the shielding of the thick galactic disk behind, the Kansas researchers hold that the increasing radiation destroys many higher species, forcing another evolutionary epoch.” (*THE DAILY GALAXY*: Casey Kazan, [*Our Solar System's Perilous 200-250 Million-Year Galactic Orbit*](#), September 08, 2010.)

What this statement implied is that life on earth is entirely determined by galactic cycles and by the cosmic radiation activity that the Milky Way showers us with, as our Solar System travels through our Galaxy. Studies at the University of California at Berkeley have shown that biodiversity progresses according to 62-65 year cycles and that two of the Earth's great mass extinctions, the Permian of 250 million years ago and the Ordovician of 450 million years ago correspond to peaks of those cycles. This correlation becomes even more fascinating when it is viewed from the vantage point of the J. S. Bach well-tempered musical system and the required register-shift changes that lawfully occur in Bel Canto singing, as a result of Lydian shock effects of the human voice. Here is how two astrobiologists from Kansas University hypothesized a similar process of axiomatic changes for within our Galaxy.

University of Kansas Adrian Melott and Michail Medvedev hypothesized that our Solar System is moving with a bow shock front toward the Virgo Cluster, 50 million light years away,

at a speed of about 150 to 200 km/s. This is affecting our solar system directly from the North side of the Milky Way galactic plane. According to Professor Melott, at about every 30 million years, the solar system “goes through a molecular cloud, a region of higher density, in its movement through the Galaxy, lasting perhaps 1 My. Such events push the Solar wind back into the inner Solar System, likely exposing the Earth to the cosmic rays in the interstellar medium.” (Adrian L. Melott and Brian C. Thomas, [Astrophysical Ionizing Radiation and the Earth: A Brief Review and Census of Intermittent Intense Sources](#), p. 15)

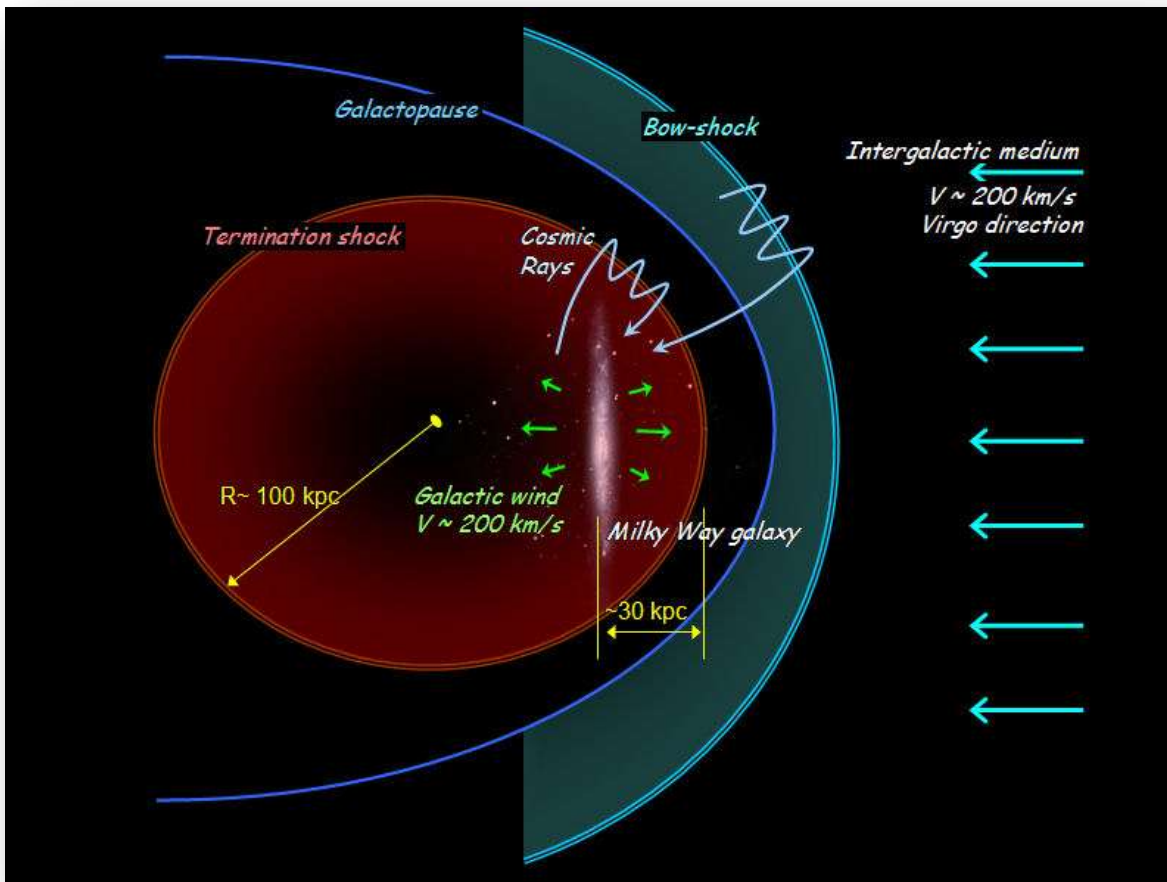


Figure 1. “Cartoon of the “galactosphere” with the galactic termination and bow shocks being sources of extragalactic cosmic rays. Due to inherent asymmetry, the north side of the Milky Way (with Virgo cluster being nearly at the north galactic pole) is exposed to a larger cosmic ray flux than its south side.” (Mikhail V. Medvedev, Adrian L. Melott, [Do extragalactic cosmic rays induce cycles in fossil diversity?](#) University of Kansas, 9 April. 2007, p. 26.)

The real threat to mankind, however, is not short term mortality of some of us, although we must deploy all existing early warning systems, but the lost of our entire species and its long term immortality. The lost of the species’ immortality is a much more awesome death than any

personal mortality, and that should be of a much greater motivation to change present government attitudes toward the current crisis. This situation means that, unless we make personal changes in national governments and in our own personal ways of thinking, we will not be able to become fully human as God's purpose for the creation of man had intended to be. That's what the intention is, that's what this emergency is all about. It is about making the right decision now, for the future survival of mankind.

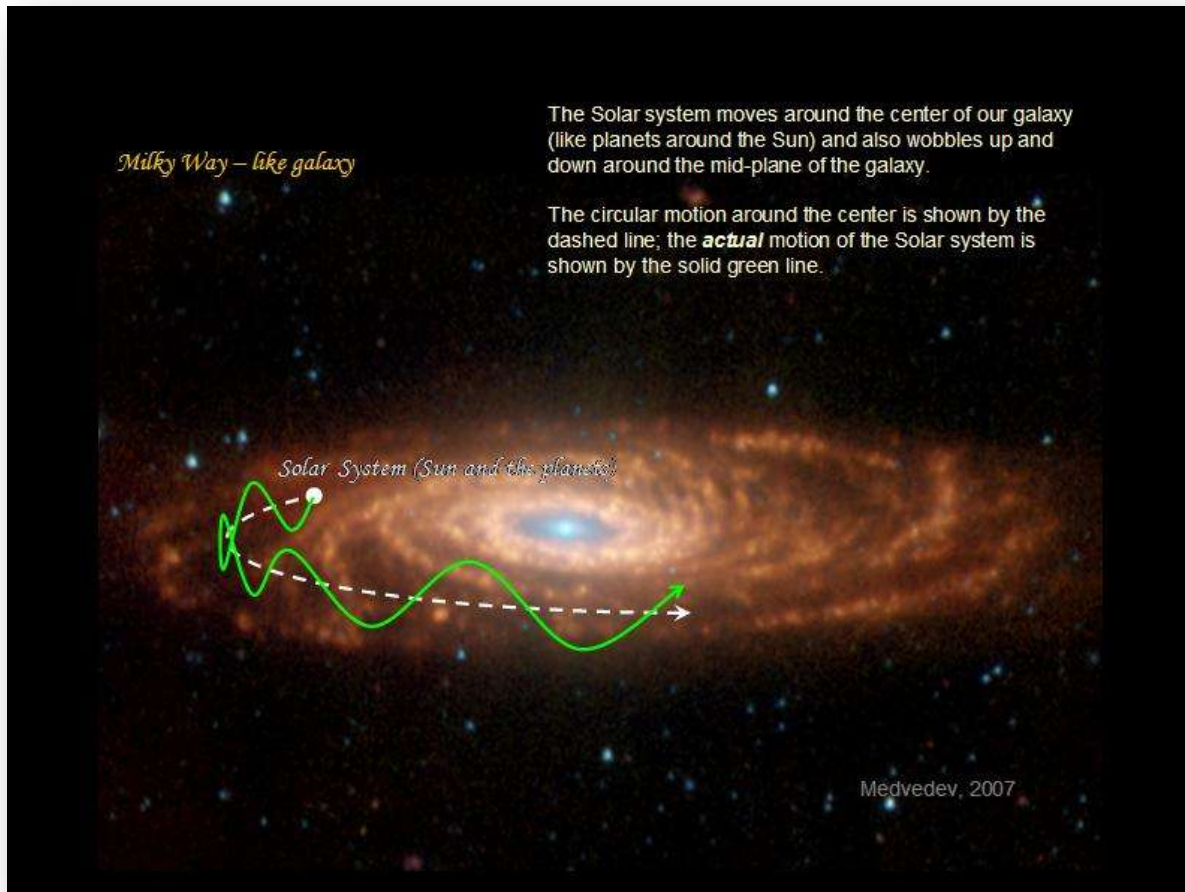


Figure 2. Galaxy and Solar System from *Astrophysical Drivers of 62 My Periodicity in Fossil Biodiversity* by Professor Adrian Melott and Mikhail Medvedev, KU Astrophysics Working Group.

Look at **Figure 2** and consider that this is the state of mind that a scientifically oriented population should have in the immediate future ahead, if its people wish to have humanity survive in the long run. If we create that galactic state of mind on this planet now, we will have the appropriate warning system built into our mental processes, and then, we won't have to worry about the outcome of calamitous events like the Japan crisis that we have just witnessed recently, and which Natalie Lovegren and Peter Martinson of the [LYM](#) reported on. This is the kind of thinking that has been going on for a

few decades with the University of Kansas research group on cosmic radiation. As Medvedev and Melott reported:

“Recent work has revealed a 62 (+/-) 3-million-year cycle in the fossil diversity in the past 542 My, however no plausible mechanism has been found. We propose that the cycle may be caused by modulation of cosmic ray (CR) flux by the Solar system vertical oscillation (64 My period) in the galaxy, the galactic north-south anisotropy of CR production in the galactic halo/wind/termination shock (due to the galactic motion toward the Virgo cluster), and the shielding by galactic magnetic fields. We revisit the mechanism of CR propagation and show that CR flux can vary by a factor of about 4.6 and reach a maximum at north-most displacement of the Sun. The very high statistical significance of (i) the phase agreement between Solar north-ward excursions and the diversity minima and (ii) the correlation of the magnitude of diversity drops with CR amplitudes through all cycles provide solid support for our model. Various observational predictions which can be used to confirm or falsify our hypothesis are presented.” (Mikhail V. Medvedev, Adrian L. Melott, [*Do extragalactic cosmic rays induce cycles in fossil diversity?*](#) University of Kansas, 9 April. 2007, p. 1 of 31.)

Cosmic Radiation (CR) being the mechanism of fossil diversity, the question now becomes: what are the causal processes of such a phenomenon? What sort of causality are we looking at with these correlations? An interesting feature of how cosmic rays induce cycles in fossil diversity is expressed by the shadow of a ratio that Medvedev and Melott have identified as an interval of action which is $64/542 = 0.11808118$ Million years (My). The most interesting feature of this Poloidal/Toroidal ratio of the biodiversity cycle to the past 542 My lies in the fact that it is congruent, within a multiple factor of 10, with the minor third Lydian interval of the J. S. Bach well-tempered musical system, where, for example, $A 430.54/F\# 362.04 = 1.189205613$.

This is the least important correlation between Cosmic Radiation and Classical Artistic Composition; the most exciting ones being expressed by artistic ironies of anti-entropic axiomatic changes. The fact that the Galaxy and the musical system are tuned to the same creative dissonance modality is not a mere accident. This means that the Biosphere of planet Earth is currently entering into a major dissonant phase change, an axiomatic change that will last about 32 million years.

The significance of this astromusical event means that because of the enhanced cosmic rays coming from the nearby Virgo cluster, as our Solar System is proceeding further north above the plane of the Milky Way, we have entered a period of increasing danger for the survival of all life on earth for the next galactic half-cycle of our Solar System. Can humanity afford not to pay attention to such an awesome dissonant correlation?

