

# An Outline Of The Principles Of Vortex Tectonics

The New Paradigm For Earth Dynamics

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## Abstract

This paper provides a summary briefing of the main concepts of Vortex Tectonics. Many of the points are directly connected to charts and information which are provided in a article titled "*Vortex Tectonics: The Primary Factors Which Govern Earth Dynamics*". Most of the points are extensively discussed in "*The Return of the Phoenix Book Three: The Prophecies*". The paradigm of Vortex Tectonics PROVES and explains how most major tectonic activity, including earthquakes, volcanism, El Nino, and global warming phenomenon is caused by the motions of the crust of the earth as it wobbles and changes its location and orientation relative to the spin axis. In other words, most major tectonic and environmental change is a consequence of the changing location of the poles. The paradigm is also applied to paleohistory and argues that the evidence from the Earth's past is best explained as a combination of the migration of the average location of the spin axis and a succession of sudden shifts in the location of the pole, ranging from as little as a degree, or even less, to as much as 27.5 degrees, which is the size of the last sudden shift in the location of the spin axis in 10,500 BC. In other words, the paradigm argues that most geological change and structural features in the crust of the earth, which the exception of erosion and sedimentary processes, is created by changes in the location of the spin axis and cyclical variations in Chandler's wobble in response to the gravity of the moon and the sun.

## The Principles Of Vortex Tectonics

Can the various correlations between earthquakes, volcanoes, El Nino, and Chandler's Wobble, which are presented in the "*Return of the Phoenix*" and "*Vortex Tectonics – The Primary Factors Which Govern Earth Dynamics*", be explained in a new model of how geological processes work? Yes, and without leaps of logic and grand sweeping presumptions which underlay some of the prevalent theories of earth processes. The direct, simple, empirical relationships which are perfectly obvious in the correlations can be integrated with a wide variety of findings and research which have contributed by a variety of earth scientists in a number of different specialties during the past 40 years. With this work, collectively the earth sciences are poised to make a quantum conceptual leap past the currently dominant theories which don't work, don't explain, and don't predict. Here on the following pages is an outline of the new paradigm of vortex tectonics:

1. First and foremost, the orientation of the outer surface (the crust) of the Earth to the plane of the ecliptic (the plane formed by the Moon and the Sun) is unstable. Most of the time the crust of the Earth spins in synchronicity with the liquid, molten interior of the Earth but slightly independently of it with a tiny lag time and with a slight chattering which is known as Chandler's Wobble.
2. Secondly, the gravity vectors of the Sun and the Moon combine with the Earth's (collectively the EMS system) to induce a chattering in the spinning of the earth's crust. This chattering, known as Chandler's Wobble, is a spiraling motion through which the location of the spin axis (North and South Poles) travels around a small circle (1.5 to 15 meters) in an easterly direction over a period of approximately 14 months.
3. Thirdly, this spiraling motion is the net balance of all the forces at play in the Earth and it is a very precise balance. Changing tides, winds, solar storms, and minor changes in the orbits of the EMS system induce variations and fluctuations in the wobble and thus literally move the location of the spin axis.
4. The primary variation in the wobble of the spin axis is a 6.5 year cycle which is caused by the combined orbital interaction of the Sun and the Moon. The spin axis spirals in towards its average location to move through a very small circle (the 6.5 year MIN) and then it spirals out to move through larger and larger circles to reach its MAX size. During the Min of the Primary Axis Cycle, the spin axis circles the Earth in a period of about 14 months in a diameter of approximately 1.5 to 3 meters). The spin axis then spirals out and

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progressively around the Earth in two or three spirals (each taking about 14 months) until it moves through its largest 14 month circle (which has a diameter of about 15 meters). This 15 meter circle or spiral (the Primary Axis Cycle Max) occurs ~3.25 years after the Min. From Max to Max, the average time is very close to 6.5 years but there are fairly frequent variations of up to about one to two months in the exact timing.

5. All earthquake and volcanic activity is directly created by motions of the crust of the Earth as it wobbles through these variations in Chandler's Wobble induced by the Sun and the Moon. The 14 month cycles individually induce phenomena in the Earth and the 6.5 year Primary Axis Cycle directly induces a range of phenomena in the Earth. This concept and correlation is the core of "Vortex Tectonics".
6. The 14 month spirals of the wobble are plotted on graphs along an X axis or an Y axis to define the 14 month X or Y Waves. Earthquake activity is clearly induced by these cycles or waves in a complex manner, and they are clearly induced as well at certain points in the 6.5 year Primary Axis Cycle.
7. The Primary Axis Cycle is plotted on the X axis or the Y axis to define the primary 6.5 year X Wave and the highest numbers on the X or Y plot for any given year it plotted to define the shape of this wave. El Nino and volcanic activity clearly demonstrate a direct, primary relationship to this cycle. Peak periods of major earthquake activity are directly connected to this cycle in complex ways, each region responding differently.
8. As of October 2000, it has not been established (for lack of effort) that volcanism is directly induced in a repetitive manner by these 14 month X Wave spirals but various charts reveal that volcanic activity peaks in sawtooth patterns which have a tempo which is nearly the same as the 6.5 year Primary Axis Cycle.
9. During the X Wave highs, the crust wobbles over the spin axis of the earth to bring "Atlantic crust" into the Pacific Hemisphere. Greenwich, England moves to the North, the North Atlantic crust contracts, the North Pacific crust expands, and vice versa for the quadrants of the Earth South of the Equator.
10. During the X Wave troughs (the lows in the waves), the crust wobbles over the spin axis of the earth to bring "Pacific" crust into the Atlantic Hemisphere. Greenwich, England moves to the South, the North Atlantic crust expands, the North Pacific crust contracts, and vice versa for the quadrants of the Earth which are South of the Equator.
11. This differential contraction/expansion cycle most likely induces the tectonic processes and motions which are observable in the Earth, including, the slow drift of the location of the spin axis, relative motion between the tectonic plates and continents, uplifting and

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downwarping tendencies, the great rift cracks in the bottom of the oceans, and of course, the accompanying earthquake and volcanic activity which are created by these motions in the crust of the earth.

12. Additionally, the orbital mass relationships in the EMS system directly induce differential torque in the crust and generate relative motions between the tectonic plates and continents. As the Earth rotates to the East, the gravity vectors of the Sun and the Moon move across the crust of the earth in a westerly direction, pulling the entire crust of the earth continually and predominately towards the West, always one half of it more than the other half, thus producing the patterns of expansion, collision and rumpling in the crust which can be seen mostly in North South orientations, especially in the Pacific Hemisphere.
13. As the rotating crust bobs up and down through the plane of the solar system and the center of the Sun (the plane of the Ecliptic) each year, complex twists are introduced into the motions of the crust. The same effect is induced by the Moon's monthly motions, even much more strongly since the Moon is so close to the Earth. As the Moon draws closest to the Earth every 27 days (perigee) the Moon's effect is magnified by as much as 10%. As the Moon lines up with the Sun during the New Moon phase, the effect is further magnified along the vector of combination.
14. These daily, monthly, and seasonal influences directly induce additional stresses and motions in the crust of the Earth in addition to creating the wobble in its spin motion. These EMS gravity vectors lift one portion of the earth more than other portions and this effect must combine with the effect of the differential contraction/expansion of the crust which is induced by its wobbling spin motion. The effects of both are most likely amplified on a regular basis and they likely assist each other to squeeze the tectonic plates which are in collision. These lifting and squeezing forces are most likely the only reason why some tectonic plates and continents are in collision and why one is able to override another.
15. Most earthquake activity probably reflects the daily squeezing and lifting forces which are impelling the motions of the tectonic plates. As such, they are more like randomized effects, especially the deep quakes at the roots of the tectonic plates. Accordingly, most of these can never be correlated to specific orbital facts. However, peaks and valleys which appear in the seismic energy, as demonstrated in "*Vortex Tectonics – The Primary Factors...*", can be correlated with orbital/geophysical facts.
16. As earthquakes, so volcanoes, though volcanic activity is much more complex and difficult to treat with just numbers.
17. The EMS System (Earth-Moon-Sun) have highly complex orbital variations which induce a large number of major variations in the orbits and rotations of the Earth and the Moon. These variations induce a continual progression of fluctuations in the motion of the

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crust through its 14 month spirals in Chandler's Wobble and the location of the spin axis in the Primary Axis Cycle. The cycles continue indefinitely, but never exactly do they repeat the previous cycles. This has frustrated all previous, naïve efforts to statistically deduce cosmic influences in a clear-cut way. Nonetheless, statisticians who seriously try with the proper vortexian concepts, can take these notions much further than the feeble efforts of this author.

18. The forces in the EMS system prevent the spin axis from ever returning to its starting point. The spiral never returns to the same point. Accordingly, the average or mean position of the spin axis is constantly drifting at a slow rate across the polar zones. The majority of change in the location of the North Spin Axis during the past 100 years has been roughly down Longitude West 90 at the rate of .00035 arcseconds/year (10.8 centimeters).
19. Correlations of the last 100 years of volcanic activity with plots of the X Wave Motion of the North Pole and the years of the El Nino weather syndrome (ENSO) conclusively demonstrate strong relationships. The ENSO weather pattern is caused by the motion of the crust relative to the axis. As the crust moves over the North Spin Axis, the resulting contractions and expansions on opposite sides in the crust of the Earth in the equatorial zone increase or decrease the flux of volcanic heat into the great rift cracks on the bottoms of the oceans. The increase in heat increases the temperature of the ocean water to produce El Nino. The decrease in heat induces La Nina.
20. These correlations establish and prove that "Vortex Tectonics" is a superior paradigm for explaining the dynamics in the Earth which have created the various geological features and propel the steadily moving tectonic plates of the continents and the ocean bottoms. In one sentence, vortex tectonics is the finding that most motions of the crust, both as a unitary shell and as individual continental plates, are induced directly but complexly from the relationships between the Sun and the orbital motions of the Moon and the whole Earth. Additional motion is induced by the solar flux. This paradigm provides an entirely new basis for doing geology, geophysics, volcanology, seismology, and climatology. In principle, both volcanic and earthquake activity in aggregate is regularly predictable within vortexian "windows", though it is unlikely that specific events in specific locations (such as a major earthquake on the San Andreas fault during the month of May) can be predicted by EMS orbital relationships.
21. The implications of these principles are more profound than may be readily understood. Here is one of them. Without the Moon, earthquake and volcanic activity would be non-existent, the continents would move not at all, and a thin layer of water would cover the entire surface of the Earth. Intelligent squid would be dreaming of visiting the oceans on Europa, a moon of Jupiter which

# MetaSyn Media

is covered by water under a layer of ice. They would not even think of exploring Mars.

22. Hence the maxim of the ancients, “*as above so below*”, preached by Thoth (Hermes), who in ancient Egypt was the chief lieutenant of the Sun and was often portrayed as a Lunar deity. Hence the name, vortex tectonics, in recognition that the major structures in the surface of the Earth are created by the vortex of energies in the EMS system.
23. The principles and intrinsic logic of Vortex Tectonics which explain the dynamics and behaviors of the Earth as they unfold in real time also can easily and elegantly explain the paleohistory of the Earth without presumption and forcing of the data. All extent unproven and unprovable theories of the dynamics of the history of the Earth can be immediately abandoned.
24. Periodically conditions arise which cause the crust to “avalanche” into a new position. This is best visualized as the Arctic zone falling towards the equatorial zone while the spin axis remains upright. The avalanche thus shifts land over the spin axis so that new land ends up in the polar zone. The land which was in the polar zone ends up at a lower latitude, possibly as far as 30 degrees to the south of the spin axis (as has happened often in the past).
25. Probably, but not necessarily always, the avalanche of the crust creates a sudden acceleration of the dominant trends in the Earth. These trends, such as the relative motions of the tectonic plates, the patterns of uplift and downlift, mountain orogeny, and other global trends are vastly accelerated and the equivalent of thousands of years, perhaps as much as a million years of normal annual tectonic change can occur within a short period of time.
26. This avalanche of the crust is pulled directly by the gravity of the Sun and the Moon and is directly impelled by the centrifugal motion of the spinning Earth. Through the normal annual cycles of the ages, the Earth’s erosion processes, uplift and downwarp tendencies, volcanic eruptions, and most importantly the huge build up of ice on the poles (Greenland and Antarctica) alter the exact mass balances of the Earth such that the spinning mass becomes progressively out of balance with its shape and orientation. This mismatch most likely increases as time goes by.
27. Most of Chandler’s Wobble and the Precession of the Equinoxes may be simply the result of this mismatch. They may simply be the expression of centrifugal force seeking to recreate balance.
28. Possibly the slight ellipsoid shape of the Earth creates enough hydraulic tension between the chattering crust and the molten interior to maintain the spin orientation of the crust within very light boundaries. The 15 meter circle of Chandler’s Wobble (the size of the wobble during its 6.5 years Max) may be the limit of free movement in the North/South plane which the crust can make to

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rebalance itself. As time goes by this circle is not large enough and the mismatch in the forces becomes progressively greater. This most likely results in the gradual creep of the average location of the spin axis.

29. But the slow creep may meet too much hydraulic resistance from the mantle to keep up with the rate of geological processes which are creating ever greater imbalances. Eventually the mismatched mass energy focuses enough angular motion into specific points on the surface of the crust such that the spinning crust has enough energy to overcome the hydraulic pressures in the mantle. At this point, any external event which suddenly alters the mass spin balance may cause a catastrophic avalanche. A major solar storm is likely quite sufficient, an asteroid strike may set the sudden shift in motion. With the addition of the triggering energy, the centrifugal force of the spinning earth flings the mismatched mass towards the Equator at a 90 degree angle to the direction of spin.
30. Many scientists have naively assumed that the spinning Earth has gyro stability in its orbit in free space and gets some sort of magical free ride of stability from its angular momentum. In fact, the Earth has very little such stability as the Earth is very nearly a perfect sphere. The annual migration of butterflies changes its orientation. A great portion of the so-called bulge of the Earth is deep ocean water. The water is stable only so long as you don't suddenly change speed or direction, then the water is so unstable it becomes the problem, as all sailors and truckers know so well.
31. None of the bulge of the earth is relevant. What is relevant is that there is no angular momentum to overcome to create a shift in the location of the spin axis if the line of movement is at 90 degrees to the general direction of spin.. It is exactly the opposite. It is primarily the angular momentum of the Earth which causes the shift. Suddenly. Suddenly there is enough total force to overcome the slight clutching effect of the slightly ellipsoid-shaped mantle fluid. That moment is the moment the Norse remembered in their legends of doomsday. At exactly that moment the rocks of the earth crack in Hel to release the bounds of Loki, the trickster god of chaos who is chained to the rocks of Hel. After long eons he is now finally free to sail across the underworld to meet the heavenly gods of order in a final showdown in the Ragnarok. He destroys all order in the Earth and most of the gods until he is finally slain so that a New Earth can be reborn.
32. As has been well documented in a variety of ways, most recently by the layers in the ice cores which have been extracted from Greenland and Antarctica, a sudden quantum shift in the location of the spin axis happens irregularly at least every 10,000 to 50,000 years or so, sometimes causing extinctions of animals and always destroying the resident human cultures which tend to cluster adjacent to the oceans

## MetaSyn Media

33. The evidence clearly proves that there have been at least four such major shifts of the Earth's crust during the last 120,000 years. These have progressively made extinct the greater portion of the large mammal species. This progressive extinction suggests that the Earth's crust during the last million years has been in a long epoch of greater instability than the preceding 10 million years. This condition has apparently worsened during the past 120,000 years.
34. There is substantial variety of evidence to indicate that there have been some unknown number of smaller shifts between 50,000 and 10,500 BC, each involving possibly as little as one or a few degrees.
35. There is a growing and already large body of evidence which demonstrates a wide variety of evidence, from coral, pollen, ice layers, mud layers, magnetic layers, carbon 14, dated bones, and other sources that a major planetary change occurred suddenly and radically during 10,500 BC. In approximately 10,500 BC the crust of the Earth avalanched some 27.5 degrees to shift the location of the North Pole from Hudson Bay to the Central Arctic. This event was rapid enough to freeze mammoths in Siberia. The sudden melting of the polar ice cap over northeastern North America created the illusion of the sudden ending of an "ice age". Recent climatology research has proven conclusively that there was a very sharp, very large sudden unexplainable change in the climate of the polar zones centered around 10,500 BC.
36. Given the firm dating of the alignment of the major monuments at Rostau (Sphinx and the three great pyramids which form Orion's Belt) which mirror the skies of 15,500 BC, and further given the highly accurate North South orientation of the three great pyramids on Giza, it is certain that the location of the spin axis has been stable (to within 4 arcminutes) since 10,500 BC. If the main facts of the matter are strictly held to, there is no possibility of any other interpretation.
37. The story of the catastrophe in 10,500 BC is still remembered in many forms by the human species, both in written and oral traditions. The memory is very similar among hundreds of human cultures. The essence of the ancient message is simple. We are all refugees from a terrible disaster, catastrophe so terrible we cannot explain it to you, only tell you the story. Once upon a time the Gods were [affronted/jealous/competitive] and had a great [war/wrath/judgment] ... everything was destroyed ... only a few of us survived by fleeing and hiding in the mountains, or by floating to a distant place...
38. These facts inform us that most of us are the descendents of refugees who survived a terrible disaster which destroyed most of their contemporaries. Most of the stories about the previous avalanche of the crust were lost through the long march of time, some times by deliberate destruction and defacement, but mostly by ignorance and forgetfulness. These memories are now barely recognizable after

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12,500 years of encrustment by artists. But nonetheless the memories are discernable. Ancient memory profiles can be recovered from the old sources. By the process of paralleling the most prevalent occurrences of descriptive and symbolic elements, data can be abstracted from the ancient memories which partially describes the last avalanche.

39. The ancient memory describes a succession of events which began with radical earthquaking, developed into extensive volcanism, and grew truly cataclysmic by the sudden onslaught of a deluge. The deluge grew worse and worse for a period of some six to seven days before abating. Most of the destruction to humans was caused by the flooding. This data, when combined with geological data, implies an avalanche of the crust which slowly picked up speed for an unknown period of time, caused extensive earthquaking and volcanism to break out, and reached an average speed of some 12 to 13 mph for most of the distance of the avalanche (approximately 7 days), after which the speed likely dropped off fairly sharply and came to a complete halt after an unknown but fairly short period.
40. The deluges which are reported by all survivors on all continents most likely were created by the collision between the continental land forms and the oceans. The continental landforms suddenly began to move in a new direction at an angle of 90 degrees superimposed on their normal easterly motion. All bodies of water sought to continue in their regular rotation. The result was a collision and huge surges of water which reached heights of a few hundred feet against some coast lines were able to roll inland for hundreds of miles to sweep clean and leave level many of the flat coastal plains which can be found on every continent. Evidence of these massive deluges is abundantly found on every continent but have been ignored by geologists who didn't want to deal with the themes of "catastrophe" and "Noah's Flood".
41. By combining the principles of Vortex Tectonics with the long reach which is contained in the ancient memories, earth scientists can approach the layers of their data, especially the major changes in the layers of their materials, with far greater power. Many of the inexplicable changes in the layers of earth and ice will prove to be not so inexplicable after all when the above has been taken into account.
42. A slight, anomalous shifting of the poles occurred in approximately 1936. The average location of the pole jumped a few feet out of its regular pattern of drift and this set off an anomalous increase in volcanic and earthquake activity which persisted for nearly 15 years. As predicted by a famous psychic, Edgar Cayce, the 1936 shift may also have set off major trends of motion and tectonic activity which began to appear in 1958 and slowly accelerated throughout the remainder of the 20<sup>th</sup> century to peak at a high level of accelerated activity in 1998. Volcanic and earthquake activity dramatically increased each decade since the middle of the 20<sup>th</sup> century in a

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linear, escalating pattern which cannot be explained by any conventional means.

43. The fact that both phenomena, the 1936 jiggle in the axis and the long term increase in tectonic activity were predicted in the early 1930's by a psychic who could not conceivably have randomly guessed them, lends considerable credibility to his claim that the two phenomena are directly related.
44. The ENSO weather syndrome of the 1997/99 period, which created the worst recorded weather extremes since the beginning of the century, was a direct manifestation of the trends predicted by Edgar Cayce. It also fulfilled his specific prediction for 1998 during which he claimed that an increase in global tectonic change would be noticeable. Without doubt, a major round of tectonic activity is still in the process of escalating toward some unknown and indefinable period of peak activity and this trend was predicted 60 years in advance.
45. Since December of 1998, polar motion on the X wave has become increasingly anomalous. The motion of the spin axis has drawn out the 6.5 year Primary Axis Cycle by three to four months and continues on an erratic path (as of October 2000) which confounds the supercomputers which attempt to predict the exact location of the spin axis for science, government, and commerce.
46. The cause of this erratic behavior, as well as the cause of the increase in tectonic activity is unknown but these should be directly related and should be explainable by the motion of the spin axis and the orbital facts. No certainty exists but the following speculation may provide a direction for looking for the answer. The average location of the spin axis progressively moved since 1900 so that during the past 10 years the average location of the pole is now completely outside the range which it had moved through in 1900 during its normal X Wave cycles. This may be introducing new stress patterns and reactions in the Earth which are now beginning to alter the Primary Axis Cycle. As well this may be causing the rate of tectonic change to speed up. In another way of saying it, the location of the spin axis is moving now through new territory. As it moves deeper and deeper into new territory, it alters the patterns of contraction and expansion in the crust and the change in the focal points of stress may be causing the increase in the release of the seismic energies.
47. However, as to just why this may be happening now, rather than in 1900 is totally inexplicable. The average location of the pole seems to have drifted at nearly a constant rate since 1900, the exception of the 1936 jiggle and possibly a couple of others. There is a missing factor. The missing factor may be that the average location of the spin axis began to move more rapidly during the beginning of the 20<sup>th</sup> century and has been moving more rapidly throughout the 20<sup>th</sup>

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century than in preceding centuries. Unfortunately it is impossible to be certain about this.

48. Edgar Cayce predicted during the 1930's that a shift in the location of the spin axis during 2000 or 2001 would create devastating, catastrophic changes in the Earth. Since Edgar Cayce's predictions have a confidence factor of at least 84% based on his over-all accuracy in dealing with Earth phenomena such as quakes, weather, etc., such a prediction is not to be taken lightly. It should be assumed that Cayce's prediction is likely to come true in some fashion within a year or two of his dates. Accordingly, the author has created a speculative scenario of the possible consequences of a major avalanche of the crust as described by Cayce and as suggested by the likely vortex dynamics which would create such an avalanche. This scenario is elaborately detailed in "*The Return of the Phoenix*".