

Earth's Subtle Energy Systems and Patterns

Laverne E. Denyer



“The Earth is not a rock with resources growing on it; the Earth is alive.” (John Seed, Spirit of the Earth) “(T)he body of the Earth is, like our own, a complex living organism, and like our own, sacred. (Rick Fields, The Time Is Now).” It is time to begin to understand the complex energetic structure of our planet. In this paper, you will learn about the energetic properties of the physical layers within the earth and the atmosphere. There are many new insights and discoveries to explore.

Prior to this, we have learned much about the subtle energy systems of people and animals. Now it is time to examine the Living Energy Systems of our planet, Mother Earth. Sometimes called Gaia, originally named Maa, this magnificent planet has subtle energy systems that correlate to, and compliment, our human energy systems.

The patterns of the human Energy Systems are structured to be complimentary to those of the planet, and are designed to work in harmony with the Earth's energetic and material body. They are organized differently, yet they still follow an original pattern set during the creation of the planet.

Each individual, or self (celf), is a single cell being within the larger system: a cell body of the planet.

Even though this is just an introduction to the larger structure of the planet's complex energy structure, it will begin to open your awareness to new possibilities.

The Planet Has A Soul

Here is a concept to challenge your thinking. Each planet has an immortal soul.

Calling upon an understanding of the laws of reincarnation, stretch your thinking to include planets as soul beings. They are living beings who live very long lives in planet bodies crafted to meet their own soul purposes.

In the case of planet Earth, the soul's eternal name is Maa. The choice for this lifetime is to be female. There is a balance of male and female energies throughout the system, but the overall force is female. Her name for this lifetime is Gaia.

Gaia refers, also, to the fairy world, the material world, the etheric world, God, nature and everything else related to Earth. It is essential for each of us to begin to understand our relevance within this larger living system.

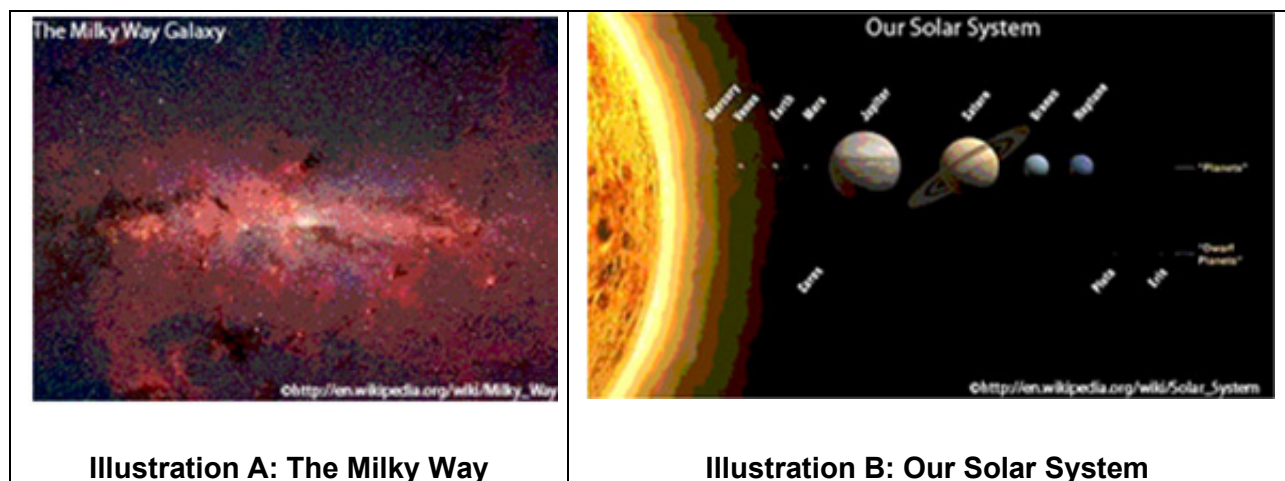
If Gaia is a large living organism in which all living things interact, what does that make each of us? We are cell bodies of the earth. Each human self is a part of the subsystem called humanity.

We are integral components of the ecology of life. We can act as vigilant white blood cells that ward off infection, keeping Gaia immune to pollution and natural destruction. Or we can become cancer cells that run rampant and destroy the host environment. Small groupings of either type of cell are easily controlled by the larger ecosystem. When multiple groups collaborate and multiply, important influences occur. The influence can be either positive or negative. Which type of influence is preferable?

As you think of your own being, think of your own unique Self. Then each single complex Cell with individual awareness and responsibility. You are at once a being of autonomy and accountability. You are accountable for your actions within the Gaia ecosystem. You become Celf (as in an individual cell being). Change your thinking from Self to Celf. Be true to your Celf. Then shall you grow and prosper.

Location

Our planet Earth, also named Gaia, is located in the third position from the solar system's single primary star, the Sun. You can think of the solar system (Illustration B) as a family. Sol (our sun) is the father, and her sisters and brothers are the planets within the solar system. The mother is the binding, creative force of space that holds these planets together in a cohesive structure. They live within a larger community, referred to as a galaxy, given the name Milky Way (Illustration A).



On a more scientific note, our location within the Macrocosms (everything there is), can be identified as follows. The Earth is the third planet from the Sun and the largest of the four inner, or terrestrial, planets. The Sun is an average-sized, middle-aged star situated toward the outer edge of one of the spiral arms of the Milky Way Galaxy. "The Sun (and therefore the Earth and

Solar System) may be found close to the inner rim of the Galaxy's Orion Arm, in the Local Fluff or the Gould Belt, at a hypothesized distance of 7.62 ± 0.32 kpc from the Galactic Center. The distance between the local arm and the next arm out, the Perseus Arm, is about 6,500 light-years. The Sun, and thus the Solar System, is found in what scientists call the galactic habitable zone (Wikipedia).” The average density of Earth is 5515 kg/m^3 , making it the densest planet in the Solar system.

Creative Force

At some point, this planet was created by some force. There are many theories about the actual process, but it comes down to the fact that there was some kind of creative force involved in the development of our planet, or Gaia's planetary body.

The concept I subscribe to is that we *all* work under the guidance and awareness of a higher power, the Tao/God source, at *all* times. This one power really is the original source and guiding authority of all that is, was, or ever will be, far beyond the concepts or confines of any planetary system or galaxy.

You may think of this force in a scientific model. Think of it in a spiritual model. Or you may think of it in some combination of the two. It is your choice! It all comes back to the fact that there is one unifying and creative force and consciousness. There is an underlying and over-arching force within the Macrocosms. This universal, all-encompassing power of love, wisdom, creation, order and destruction is the source of all that we are and do. It is only through the auspices of the Tao/God power that these things are possible.

Thirteen Layers

The Living Energy Systems of the planet and humans share similar patterns and purposes. The structural layers and surface structures of the planet share traits and energetic connects with human Living Energy Systems.

The physical and energetic structure of the Earth is divided into thirteen (13) layers. There are eight (8) material layers and five (5) atmospheric layers. Each has specific energetic properties that support the whole structure.

In a complimentary pattern, the human energy system is likewise structured in thirteen layers. The human life forms on the planet are structured to work in harmony with the planet's body. The individual patterns differ, yet are similar enough to be a viable part of the greater body of the planet. Our human energy patterns share commonalities with each of the layers. Our subtle body systems and chakras interact on a continual basis with these common structures.

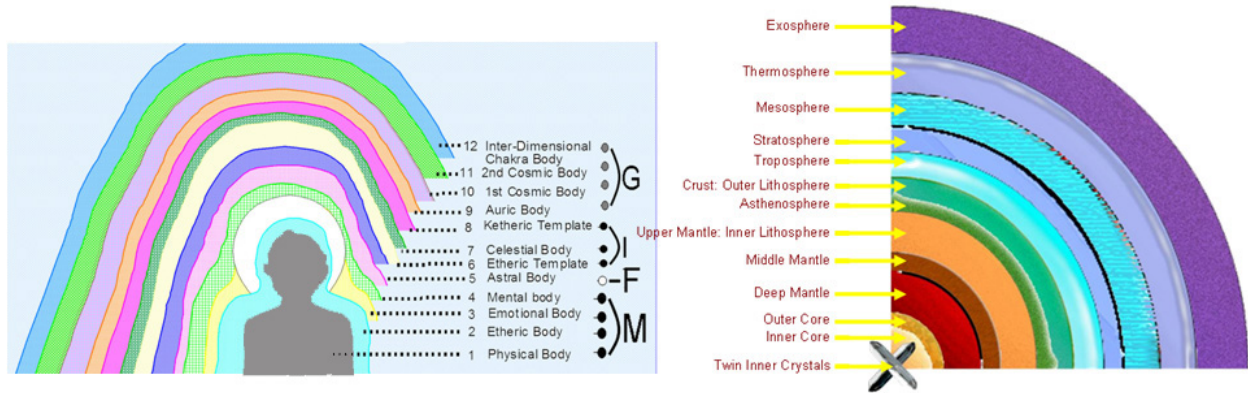


Illustration 1. Thirteen Energetic Layers of the Earth and Humans

The Material/Physical Bodies – First Eight Layers

The material structure of the Earth is composed of eight (8) layers. The layers are: a complex set of inner crystals, the Inner Core, the Outer Core, the Deep Mantle, the Middle Mantle, the Upper Mantle (or Inner Lithosphere), the Asthenosphere and the Crust (or Outer Lithosphere).

Earth's Inner Physical Bodies

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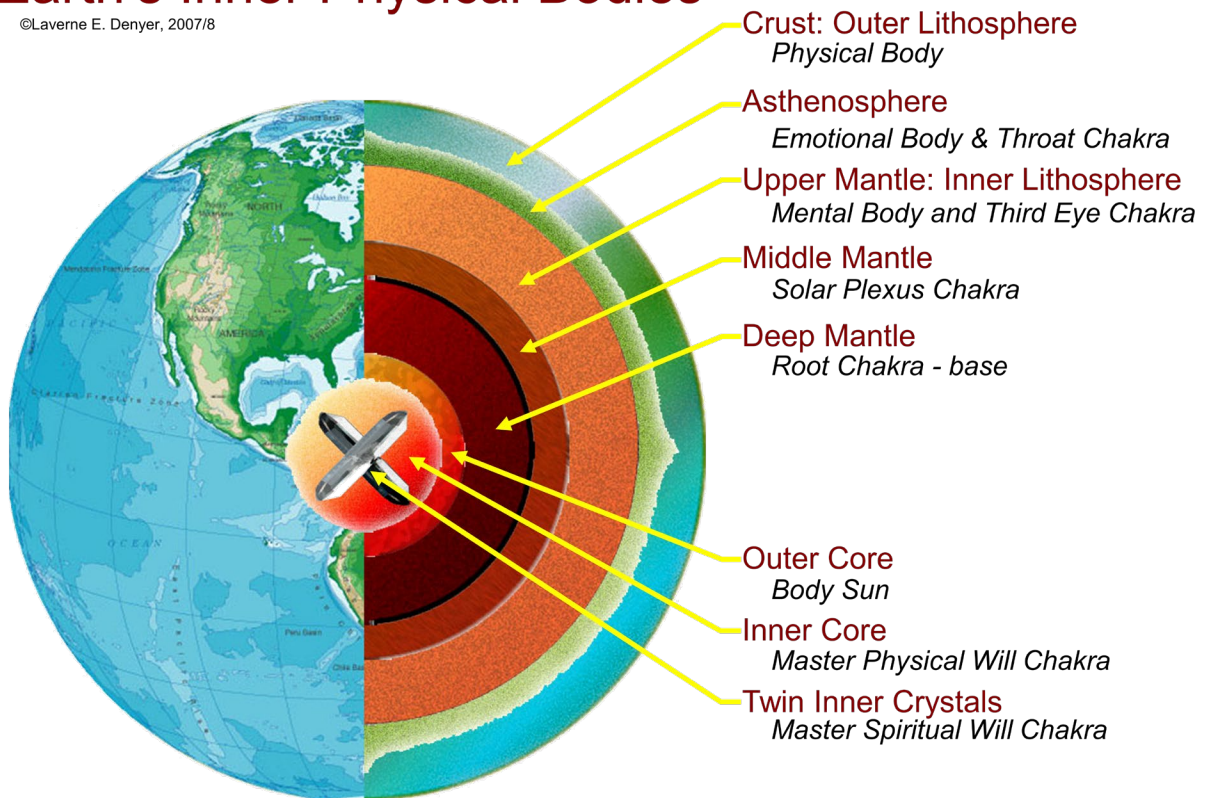


Illustration 2: Earth's Inner Physical Bodies

The Material/Physical Bodies: Layer 1, Inner Crystals

Set deep within the inner core of the Earth is a set of giant hexagonal iron/carbon crystals. What I first became aware of in 1979, is a pair of solid hexagonal crystals, joined at right angles, spinning within the molten inner core. Attached to the two solid crystals is a third, energetic, crystal set perpendicular to the original two crystals. Traditional science is just beginning to understand this.

There's a giant crystal buried deep within the Earth, at the very center, more than 3,000 miles down. It may sound like the latest fantasy adventure game or a new Indiana Jones movie, but it happens to be what scientists discovered in 1995 with a sophisticated computer model of Earth's inner core. This remarkable finding, which offers plausible solutions to some perplexing geophysical puzzles, is transforming what Earth scientists think about the most remote part of our planet. (Stixrude and Cohen's) Unheard of until this work, the idea has prompted realization that the temperature-pressure extremes of the inner core offer ideal conditions for crystal growth. Several high-pressure laboratories have experiments planned to test these results. A strongly oriented inner core could also explain anomalies of Earth's magnetic field, such as tilted field lines near the equator. (**Researchers:** [Ronald Cohen and Lars Stixrude](http://www.psc.edu/science/Cohen_Stix/cohen_stix.html), Carnegie Institution of Washington. http://www.psc.edu/science/Cohen_Stix/cohen_stix.html)

There is a third, purely energetic crystal on a perpendicular plane to the two physical crystals to help balance the rotation. It connects the planet to the law of duality in the twin crystals in concert with the greater, spiritual power. The entire planetary structure is built around these two forces: the interplay of yin and yang, positive and negative, feminine and masculine forces; combined with the influence of the greater Tao/God creative force.

These crystals are both the generators and the binding force for the entire planetary system. They were the first physical components made manifest in the structure. This is where the planet first generates life. It is also what helps hold the planet's location within the Macrocosms, with this particular solar system, in this particular galaxy.

The set of crystals serve as a master control panel for all energy systems within the earthly sphere. It manifests and directs the primal life force of the planet and all of its component systems.

The configuration of these crystals correlates with the original structure of the planet itself. One physical crystal is feminine (mind), and the other is masculine (body). The third, energetic crystal correlates to the spiritual partnerships throughout the system, creating a triune power which is greater than any sum of its parts. The earth's human inhabitants are also triune in nature, composed of mind, body and spirit. We all conform to that original pattern for the planet, to which many of its component parts correlate.

Each crystal has a positive (north) and negative (south) polarity. They spin with a slight southerly deviation that carries them in a spherical pattern that repeats and repeats. The south/negative end of the feminine crystal is the leading edge of the spinning pattern. This

creates a sphere of moving energy within the fluid of the inner core that generates the electro-magnetic forces and rotational spin of the larger planet-body.

As the crystals complete a full cycle through the rotational pattern, beginning a new cycle, it interacts with the axial spin of the planet. This is one of the factors that causes a polarity shift. Sometimes this shift is just a few degrees, sometimes it is a full north to south shift. Robert Roy Britt (When North Becomes South: New Clues to Earth's Magnetic Flip-Flops) discusses the history of these flips.

Earth's magnetic field is thought to be generated deep inside the planet. An inner core of solid iron is surrounded by an outer core of molten iron. They rotate at different rates, and the interaction between the regions creates what scientists call a "hydro magnetic dynamo." It's something like an electric motor, and it generates a magnetic field akin to a giant bar magnet. However it works, the setup has been in place for at least 3 billion of Earth's 4.6 billion years, scientists figure. But the field is shifty, periodically growing stronger and weaker, moving around, and even flipping its polarity entirely.

In the past 15 million years, there have been four reversals every 1 million years, or about one shift each 250,000 years, Clement explained. The last one, however, was 790,000 years ago. That might suggest we're overdue for a big change. Not necessarily so, Clement says. The flips are not periodic, meaning they don't adhere to a schedule of even intervals.

Yet the intensity of the magnetic field has been dropping for the last 2,000 years, and "it has dropped significantly" during the past two decades, Clement said. One recent study shows the decline in strength amounts to 10 percent over the last 150 years. Researchers also have not known how long it takes for the magnetic field to make a transition. Studies have suggested anywhere from 1,000 to 28,000 years are required to initiate and complete a reversal.

"It is generally accepted that during a reversal, the geomagnetic field decreases to about 10 percent of its full polarity value," Clement said. "After the field has weakened, the directions then undergo a nearly 180-degree change, and then the field strengthens in the opposite polarity direction. A major uncertainty, however, has remained regarding how long this process takes."

When the extreme happens, and full polarity reversals occur, the sun rises in the west, and the earth is changed significantly. Oral and geological histories indicate that these reversals can be very short in duration, perhaps as short as one day or as long as a few thousand years.

Oral histories give accounts of these times.

There is Muslim legend that says there was a time when the sun rose in the west. Ancient Jewish legend also says there was a time when the sun rose in the west. One indicates that there was a time when the sun in the sky went to the north. Native Americans and Hawaiians also remember a time when the sun rose in the west. (Planetary Axis Shift, http://www.truthasaur.com/misc/axis_shift.html)

Geological accounts substantiate the oral traditions.

Geologic historians know the planet appears to have reversed its polarity 9 times in 4 million years. Physics says that an object spinning in equilibrium in a direction will continue spinning in that direction. If the sun is to rise in the west, the most likely way for it to happen is for the axis to reverse. Most valleys and rivers of earth run north and south and sea creatures and land mammals of southern hemispheres, have been found jammed into cracks in mountains in the northern hemispheres. (Planetary Axis Shift, http://www.truthasaur.com/misc/axis_shift.html)

According to the Wise Geek, from the Conjecture Corporation:

Dynamic processes taking place deep inside the planet generate Earth's magnetic field. A core of molten iron surrounds the inner core of solid iron, each rotating at different rates. Their interaction, and perhaps other geophysical processes not yet understood, creates what scientists call a "hydro magnetic dynamo." This self-perpetuating electric field acts in some ways like a gigantic bar magnet. The Earth's magnetic field extends into space for tens of thousands of miles from the planet's poles. It not only protects the Earth from solar radiation but plays a fundamental role in overall climate, weather patterns, and migratory habits of animals. If the poles were to reverse *instantly*, destruction would be global, from earthquakes and volcanic eruptions to melting of Arctic ice and vast flooding. However, evidence suggests pole shifts happen gradually taking anywhere from 1,000 — 28,000 years. The last four flip-flops took about 7,000 years each. (<http://www.wisegeek.com/what-is-a-pole-shift.htm>)

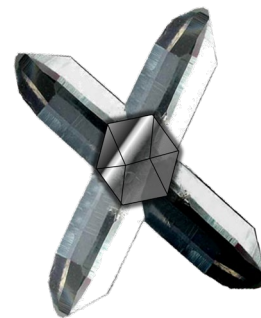


Illustration 3: Twin Inner Crystals and **Illustration 4: Energetic Crystal**

Correlations: This layer correlates with the Master Spiritual Will Chakra, the Third Eye Chakra, and the chakras in the feet.

The Master Spiritual Will chakra (Illustration 6) acts as a master control panel for the physical and non-physical bodies of humans. For humans, the Master Spiritual Will is located just above the heart chakra. It contains the master control panel for all energy systems within the earthly sphere. It controls the "Will to Be" as separate, spiritual beings.

The foot chakras connect directly with the twin crystals. There are two components, the left and right foot.

The chakra in the left foot, 10th Chakra (Illustration 8) provides an Emotional Base for the creation of the physical being. It is reflective of our emotional foundations. How we feel about ourselves and others and how we interact with others is gauged by the health of Chakra #10. It also reflects the stability and instability of our spiritual foundations. It generally oscillates somewhere within the midnight blue range of color. It relates to the left foot, showing the potential for emotional stability or instability. This is considered feminine and spiritual in nature.

Correlating Human Energy Systems for Material Layer 1, Hexagonal Crystals

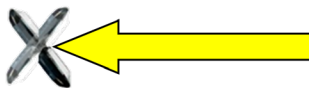


Illustration 5: Twin Inner Crystals – At the Center of the Earth

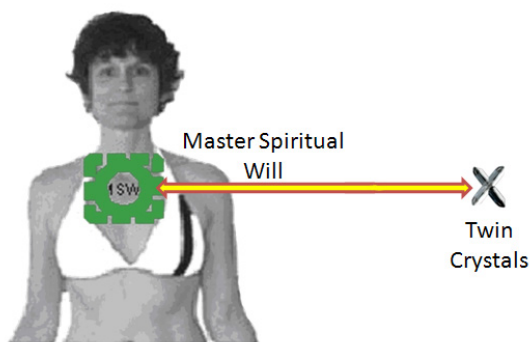


Illustration 6: Master Spiritual Will Chakra

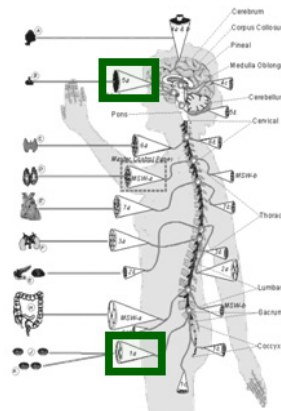


Illustration #7: MSW & Brow Profile



Illustration #8: Foot Chakras

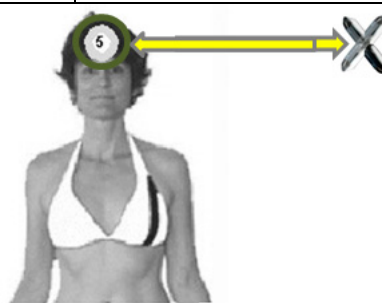


Illustration #9: Brow Chakra (Third Eye)

The chakra in the right foot, 9th Chakra (Illustration 8) provides a Material Base for the creation of the physical essence. It is reflective of our physical and material foundations. If we feel as if we have firm ground to stand upon and a solid contact with the physical world, it shows up in Chakra #9. The reverse is also true. It oscillates within the brown range of colors. It relates to

the right foot, showing potential for material stability or instability. This is where matter first manifests in solid form. This is considered masculine and material in nature.

The Brow Chakra, Chakra #5, or Third Eye Chakra (Illustration #9), is where awareness of both spiritual and physical essence merge and become manifest in the physical world. It connects to the 1st Cervical in the spine. Its color is indigo, for intuition and higher-level healing. Through this center we hear and see others in the world. It is also where we begin to understand their communication cues. Additionally, it is where we interrelate with the spiritual energies of our world, and others. The Brow Chakra is often called the seat of spiritual knowing. It is definitely an important spiritual center.

Additional 144 crystals: Along with the three hexagonal connected crystals within the Inner Core, is a set of 144 energetic, elongated crystals (Illustration 10 & Illustration 11). Each crystal is a different frequency and configuration that supports and enhances the overall structure. These crystals are more ethereal than physical in nature. They extend from the orbit of the inner hexagonal crystals to within a short distance from the outer crust of the planet.

The 144 crystals are placed with their longest and narrowest points facing inward, around the outer edge of the orbit of the twin crystals. From there, they radiated outward, creating a spherical pattern. There are a total of 144 primary crystals in addition to the original inner crystals. These crystals generate a powerful energetic spherical force that was a beginning of Gaia's truly physical body. These combined forces were the beginning of the electro-magnetic forces present within Earth today.



Illustration #10: Sample Elongated Crystal



Illustration #11: 144 Elongated Crystals

The spaces between, and around the energetic crystals are filled with varying mineral substances, organized in striated layers (Illustration 12). These are the layers, and subtle

energy bodies of the physical earth structure. There are atmospheric pockets within some of the outer layers for future use by the planet and her cell bodies. These are the layers that will be described in detail with their individual correlations.



Illustration #12: Organized Striated Physical Layers

Correlations: The 144 crystals also relate to the Brow Chakra, or Third Eye as discussed in the Twin Inner Crystals (Illustration 9).

The Material/Physical Bodies: Layer 2, Inner Core

The Inner Core of the Earth is approximately 2,400 kilometers in diameter. It is composed of liquid iron, oxygen, sulfur and nickel alloy. Its diameter is only about 70% that of the Moon, and it may be hotter than the Sun's surface. The inner core is a liquid mass of nickel and iron, which has the pressure of the whole Earth situated at Earth's center. The hexagonal crystals float within this structure. There are also various scientific theories ranging from one solid nickel crystal sphere, to a grouping of different materials. My concept is that this liquid mass is the medium for the rotating hexagonal crystals, and the basis for the Earth's rotation and electro-magnetic forces.

This acts as the gravitational and "life force" center of the planet. From here, the other layers are constructed and held together. As the hexagonal crystals rotate through this layer, the fluids of the Inner Core help generate and modulate the electro-magnetic frequencies, gravitational pulls and axial spin of the entire planet. The magnetic field lines from this body extend out beyond Earth's atmosphere and provide the first line of defense against strong solar storms, in the form of the magnetosphere – the force outside the 13-layer structure of the earth.

Correlations: The Inner Core correlates to the Master Physical Will Chakra and the Base Chakra.

The Master Physical Will Chakra (MPW) (Illustration 15 & Illustration 16) controls the physical "will to be". From this center comes the basic drive to create a "manifest reality" within the earthly plane. It resides in the abdominal (abdominopelvic) cavity of the body, placing it in the

physical portion of the subtle body system. It is the center that generates the Silver Chord of Life. The Silver Chord is an etheric channel that connects the spiritual levels of the human energy system to the material levels. It connects to the navel area of the physical body, much like a physical umbilical cord. As long as the body is alive, the chord connects the body to the spiritual essence. Through this chord, life-giving energies flow back and forth.

When we think of being centered, the MPW center is the place where the process actually occurs, with positive or negative feelings churning in our “gut.” Being the gravitational center of the body, it directly relates to material balance. When emotions are added, it activates and affects the intestinal structure. When this happens, it affects a person's sense of balance, both emotional and spiritual equilibrium. Either we are in balance and harmonious while reflecting strength of will, or we are unbalanced while reflecting weakness. Most of the time, we are in flux between the two ends of the continuum.

Correlating Human Energy Systems for Material Layer 2, Inner Core

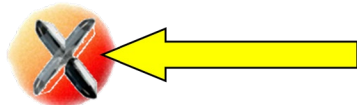


Illustration 14: Inner Core

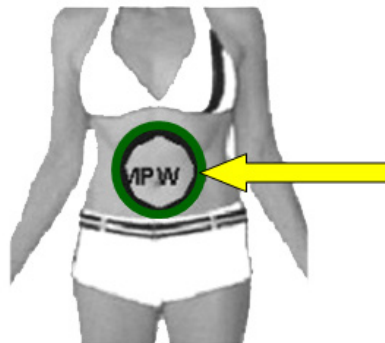


Illustration 15: Master Physical Will Chakra

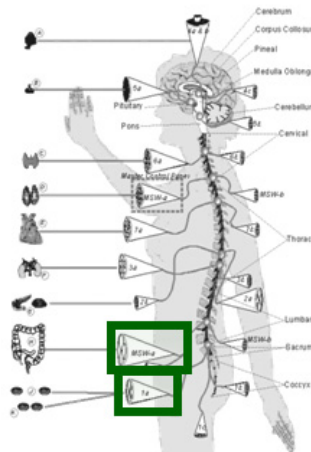


Illustration 16: MPW & Base Chakra Profile

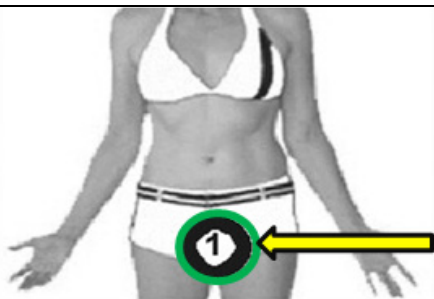


Illustration 17: Base Chakra

The MPW center channels the earth energy from the Base Chakra. The energy circulates from there upwards in a counter-clockwise pattern through the entire body.

The Base Chakra (Illustration 18) provides a potential for general awareness. It facilitates the basic animation of the outer physical self. It connects to the 3rd Lumbar region of the spine. It relates to the gonads; testes and penis for men; the ovaries and uterus for women. It vibrates with a red color.

The basic life force flows in through this chakra. It also carries sexual energy. This is where a person connects to base material forces that relate to physical vitality and reproduction. It also provides the necessary energy to claim a place in the world.

An interesting aspect of this chakra is the fact that it has three openings. It is one of only two chakras to have three openings. Since it is the chakra that animates the body in physical form, it is logical to presume that it is important. The primary opening is in the front of the body, over the center of the pubic bone. The second is on the back of the body, at the top of the coccyx. The third is at the base of the pelvis between the legs. The frontal opening relates most to sexuality and passion. It vibrates to a deep red color, for life vitality. The back opening relates to surveillance and survival, kind of like the proverbial "eyes in the back of your head" idea. It vibrates to a clear white color for the totality of all energy entering the physical system. The lower opening relates to the elimination process and basic survival. It vibrates to a velvety black color, for the great void. The void is the beginning of all manifestation, or potential. It is where the soul first begins to actually manifest the physical being; where physical life begins.

The Material/Physical Bodies: Layer 3, Outer Core

About 1,800 miles beneath the surface, Earth's internal structure changes abruptly where the solid rock of the mantle meets the swirling molten iron of the outer core. It is 2,259 Km thick, and composed of Liquid Iron, Oxygen, Sulfur, and Nickel Alloy.

Science now believes that the boundary between the core and the mantle may not be as sharply defined as once thought. By analyzing earthquake waves that bounce off the core-mantle boundary, UCSC researchers have found evidence of a thin zone where the outermost core is more solid than fluid. By analyzing earthquake waves that bounce off the core-mantle boundary, UCSC researchers have found evidence of a thin zone where the outermost core is more solid than fluid. The existence of such "core-rigidity zones"--small patches of rigid material within the fluid outer core--has been suggested before, but this report marks the first time scientists have detected one.

Postdoctoral researcher Sebastian Rost and associate professor of Earth sciences Justin Revenaugh published their findings in the November 30 issue of the journal *Science*.

The nature of the core-mantle boundary is important because researchers now think it influences phenomena ranging from the behavior of Earth's magnetic field to the massive plumes of hot rock that rise through the mantle and erupt on the surface at

volcanic hot spots such as Hawaii. The interaction of core-rigidity zones with the magnetic field, for example, may help explain the slow wobbling of Earth's rotation axis, called nutation.

"Studies of Earth's nutation provided one line of evidence that got people thinking there might be these little patches of rigid material in the outer core," he said. "So previous evidence was consistent with that idea, but now we have evidence that cannot be explained any other way."

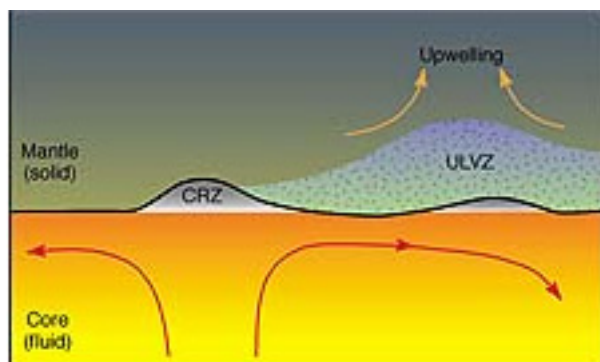


Illustration #18: Outer Core-Mantle Boundary

In this diagram of a cross-section through the core-mantle boundary, a core-rigidity zone lies on the fluid core side of the boundary and an ultra-low velocity zone lies on the solid mantle side. Image:

Sebastian Rost and Justin Revenaugh.

Correlations: The Outer Core correlates to the human energy systems' Body Sun and the Spleen Chakra.

Body Sun is a construct in the Human Energy System that is unknown to most people. I refer to it as the Body Sun (Illustration 20). It is a central spark in the middle of the abdomen that is a single energy production center. This center represents a unique energy level within the system with no specific numerical value.

The Body Sun is rather like an uninterruptible power backup system for computers. It kick-starts all other systems and it acts as a backup when depression, over medication, injury or illness seriously damages or threatens the function of the human energy system. It is like a small "sun" in your belly. Sometimes it tries to activate even when the system is working well and it feels like a fire in the gut or a gut-wrenching feeling. Many people are familiar with the feeling, but don't know what it is about.

Depending on whether it is functioning properly or overreacting, it is a very important backup device. It can also be likened to a backup generator for a house. It kicks in when needed and stays dormant when not needed. The main difference is that the Body Sun sometimes activates unnecessarily, sometimes disrupting the system.

Sometimes it also acts as an energy booster to provide extra power as needed for high stress situations (good and bad). It can provide the adrenalin surge necessary for flight or fight situations, powerful insight or creative moments, in times of strong emotions or other high-

energy need situations. It can even be the center and energy base behind our strong surges of “love” feelings.

As you can tell, this is a great energizer. A terrific tool! It is time that people began to understand it.

Correlating Human Energy Systems for Material Layer 3, Outer Core



Illustration 19 – Outer Core

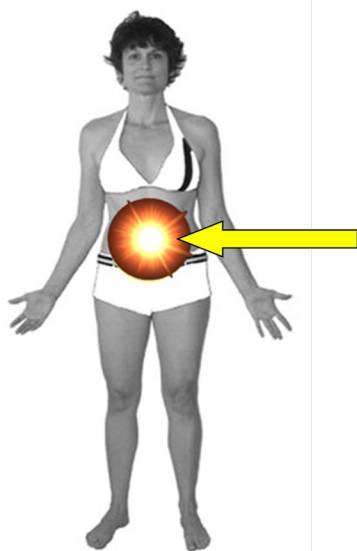


Illustration 20 – Body Sun

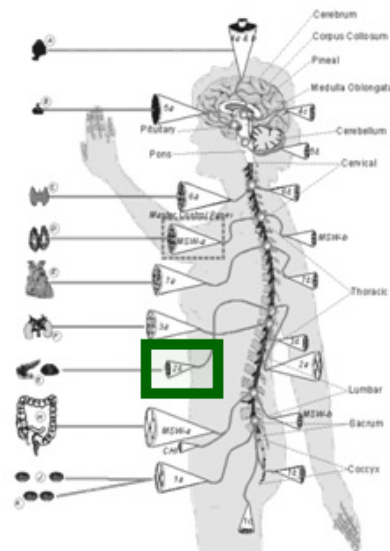


Illustration 21 – Spleen Chakra Profile

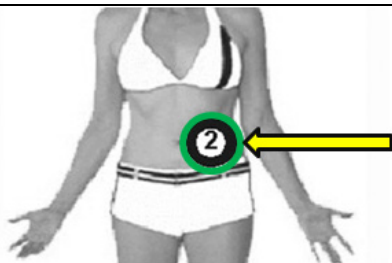


Illustration 22 – Spleen Chakra

It is not connected directly to any of the other systems, yet it is loosely connected to everything. Its sensors simply provide temporary linkages and power as needed, then disconnects itself when no longer needed.

The other correlation is to the Spleen Chakra (Illustration 21 & Illustration 22). The 2nd Chakra, known as the Spleen Chakra, provides the possibility for awareness of the Inner Self. It connects to the 1st Lumbar region of the spinal column. It connects through a nadi to the 1st Lumbar disk of the spinal column. It is set off to the left of the other centers, directly over the

spleen. The Spleen Chakra begins as part of the Master Spiritual Will Chakra, and is originally located at the navel at birth. As part of the maturation process, it separates and migrates to the new location over the spleen. Although this chakra begins in one location and migrates to another, the spinal connection is consistent

It relates to the pancreas and the spleen. It combines the red of pure energy with the yellow of intelligence. This combination of oscillations creates the frequency of orange, the color of strength and perseverance. The Spleen Chakra is where survival lives and grows within the material body. It is the part of the body that helps humankind pay attention to the elements and avoid danger. The "fight or flight" syndrome originates here.

The Material/Physical Bodies: Layer 4, Deep Mantle (Lower Mantle)

Below the crust is the mantle, a dense, hot layer of semi-solid rock approximately 2,900 km thick, composed of Magnesium, and Silicon Oxides. The mantle, which contains more iron, magnesium, and calcium than the crust, is hotter and denser because temperature and pressure inside the Earth increase with depth.

The Earth's lower mantle makes up more than half of the Earth by volume. Earth's mantle is a layer that extends from the bottom of the crust, about 25 miles down, to the planet's core, 1,800 miles deep. Scientists divide the mantle into three layers separated by a wide transition zone centered around a depth of about 300 miles. The lower mantle lies below that zone.

Most of Earth's lower mantle is made of a magnesium silicate mineral called perovskite. In 2004, earth scientists discovered that under the conditions of the lower mantle, perovskite can change into a high-pressure form, which they dubbed post-perovskite. Since its discovery, post-perovskite has been geophysicists' favorite candidate to explain the composition of a mysterious layer that forms the bottom of Earth's lower mantle.

Correlations: The Deep, or Lower, Mantle correlates to the Base Chakra in the same manner as the Inner Core.

The Base Chakra (Illustration 18) provides a potential for general awareness. It facilitates the basic animation of the outer physical self. It connects to the 3rd Lumbar region of the spine. It relates to the gonads; testes and penis for men; the ovaries and uterus for women. It vibrates with a red color.

The basic life force flows in through this chakra. It also carries sexual energy. This is where a person connects to base material forces that relate to physical vitality and reproduction. It also provides the necessary energy to claim a place in the world.

Correlating Human Energy Systems for Material Layer 4, Deep Mantle

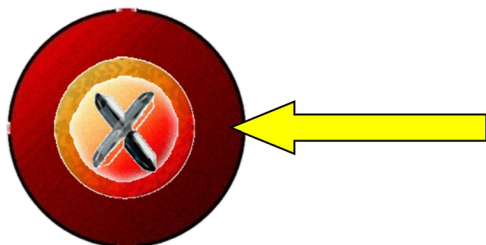
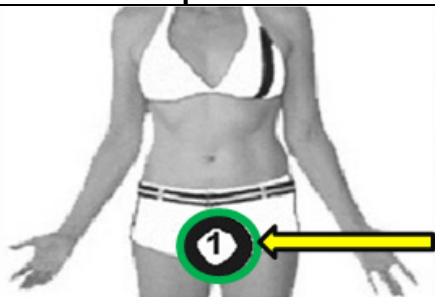


Illustration 23: Deep Mantle



**Illustration 24: Base Chakra
(repeat of Illustration #17)**

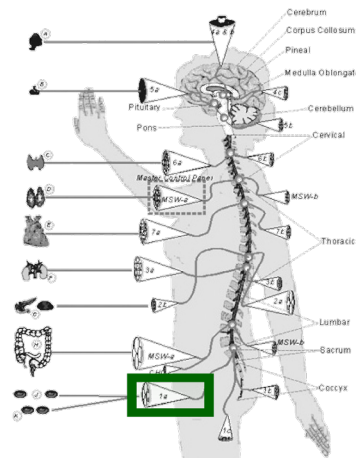


Illustration 25: Base Chakra Profile

An interesting aspect of this chakra is the fact that it has three openings. It is one of only two chakras to have three openings. Since it is the chakra that animates the body in physical form, it is logical to presume that it is important. The primary opening is in the front of the body, over the center of the pubic bone. The second is on the back of the body, at the top of the coccyx. The third is at the base of the pelvis between the legs. The frontal opening relates most to sexuality and passion. It vibrates to a deep red color, for life vitality. The back opening relates to surveillance and survival, kind of like the proverbial "eyes in the back of your head" idea. It vibrates to a clear white color for the totality of all energy entering the physical system. The lower opening relates to the elimination process and basic survival. It vibrates to a velvety black color, for the great void. The void is the beginning of all manifestation, or potential. It is where the soul first begins to actually manifest the physical being; where physical life begins.

The Material/Physical Bodies: Layer 5, Middle Mantle, or Mesosphere

Below the crust is the *mantle*, a dense, hot layer of semi-solid rock approximately 2,900 km thick, composed of Magnesium, and Silicon Oxides. The mantle, which contains more iron, magnesium, and calcium than the crust, is hotter and denser because temperature and pressure inside the Earth increase with depth.

Correlating Human Energy Systems for Material Layer 5, Middle Mantle

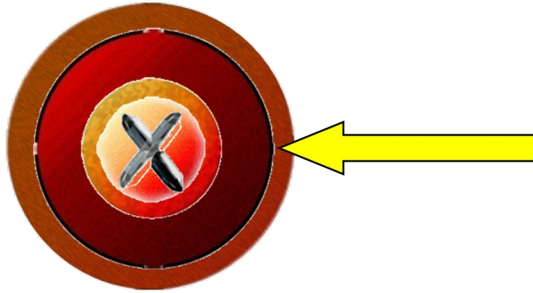


Illustration 26: Middle Mantle

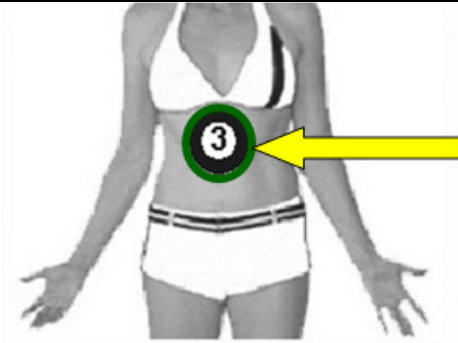


Illustration 27: Solar Plexus Chakra

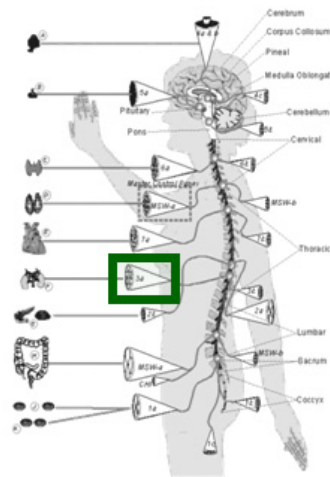


Illustration 28: Solar Plexus Chakra Profile

The Earth's lower mantle makes up more than half of the Earth by volume. Earth's mantle is a layer that extends from the bottom of the crust, about 25 miles down, to the planet's core, 1,800 miles deep. Scientists divide the mantle into three layers separated by a wide transition zone centered around a depth of about 300 miles. It is 7.5% of Earth's mass; at a depth of 400-650 kilometers (250-406 miles).

The transition region or mesosphere (for middle mantle), sometimes called the fertile layer, contains 11.1% of the mantle-crust mass and is the source of basaltic magmas. It also contains calcium, aluminum, and garnet, which is a complex aluminum-bearing silicate mineral. This layer is dense when cold because of the garnet. It is buoyant when hot because these minerals melt easily to form basalt which can then rise through the upper layers as magma.

Correlations: The Middle Mantle correlates to the Solar Plexus Chakra.

It the Solar Plexus Chakra, Chakra #3, (Illustration 27 & Illustration 28) is what provides for interaction with the total self, then helps us move beyond to other individuals outside ourselves. This is the center that connects the sensate (sensing and being) to the other forces within the human being. It connects to the 8th Thoracic in the spine It relates to the adrenals. The color of this center is yellow, for intellect.

This is where emotions live. As man reaches beyond self to interact with the world, emotional life begins. The level of health and vitality a person experiences is often affected by this center of emotionality. Similarly, emotional stability or instability will affect this center, thereby affecting other areas of the physical body. As John Bradshaw says it, "Emotion is Energy in Motion." Steven Covey then goes on to relate Emotion to "Essential Motivation." Using the combined thoughts of these two people, this chakra could be thought of as the center where energy is put into motion, providing essential motivation for the life experience. As data is gathered from the external environment and processed within the internal environment, emotions impact the entire system. That process works through the Solar Plexus Chakra.

The Material/Physical Bodies: Layer 6, Upper Mantle, or Inner Lithosphere

The lithosphere includes the crust and the uppermost mantle which is joined to the crust across what is called the Mohorovičić discontinuity. It is 720 Km thick, and consists of Peridotite, Euclite, Olivine, Spinel, Garnet, Pyroxene, Perovskite, and Oxides. The lithosphere is underlain by the asthenosphere, the weaker, hotter, and deeper part of the upper mantle. The boundary between the lithosphere and the underlying asthenosphere is defined by a difference in response to stress: the lithosphere remains rigid for long periods of geologic time, whereas the asthenosphere flows much more readily. As the conductively cooling surface layer of the Earth's convection system, the lithosphere thickens over time. It is fragmented into tectonic plates (shown in the picture), which move independently relative to one another. This movement of lithospheric plates is described as plate tectonics. This is when plates move horizontally across the Earth's surface and the continents change their relative positions.

There are two types of lithosphere: the oceanic lithosphere, and the continental lithosphere. The oceanic lithosphere is typically about 50-100 km thick. While the continental lithosphere has a range in thickness from about 40 km up to 200 km.

The oceanic lithosphere is denser than the continental lithosphere. It thickens as it ages and moves away from the mid-ocean ridge. This thickening occurs by conductive cooling, which converts hot asthenosphere into lithospheric mantle, and causes the oceanic lithosphere to become increasingly dense with age. It is less dense than the asthenosphere for a few tens of millions of years, then becomes increasingly denser than the asthenosphere. The gravitational instability of mature oceanic lithosphere has the effect that at subduction zones, the oceanic lithosphere regularly sinks underneath the overriding lithosphere, which can be oceanic or continental. New oceanic lithosphere is constantly being produced at the mid-ocean ridges, and is recycled back to the mantle at the subduction zones. The result is that the oceanic lithosphere is much younger than the continental lithosphere. The oldest recorded oceanic lithosphere is about 170 million years old, while parts of the continental lithosphere are recorded at billions of years old.

Correlating Human Energy Systems for Material Layer 6, Upper Mantle, or Inner Lithosphere

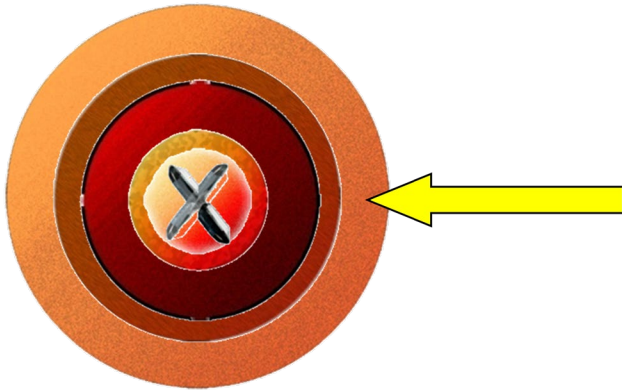


Illustration 29: Upper Mantle, Inner Lithosphere

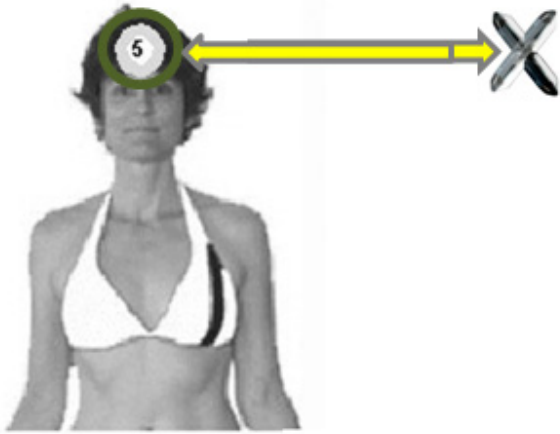


Illustration 30: Brow Chakra (same as Illustration 9)

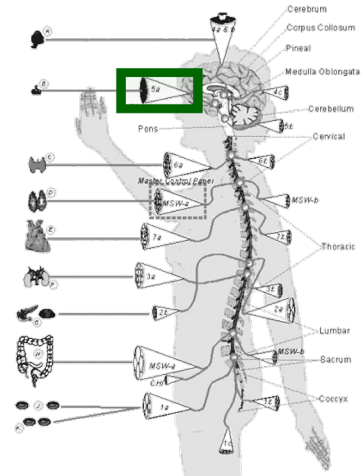


Illustration 31: Brow Chakra Profile

Layer 4 – Mental Body

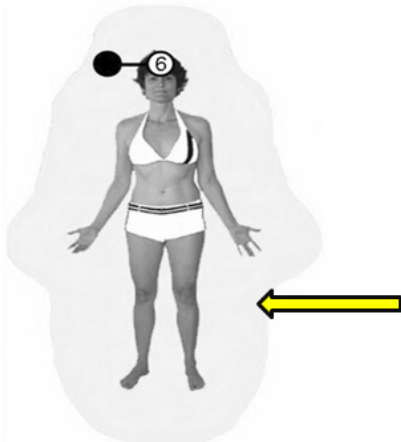


Illustration 32: Mental Body

The oldest parts of continental lithosphere underlie cratons. A craton is an old and stable part of the continental crust that has survived the merging and splitting of continents and supercontinents for at

least 500 million years. Some are over 2 billion years old. Cratons are generally found in the interiors of continents and are characteristically composed of ancient crystalline basement crust of lightweight felsic igneous rock such as granite. They have a thick crust and deep roots that extend into the mantle beneath to depths of 200 km. The mantle lithosphere there is thicker and less dense than typical. The relatively low density of such mantles helps to stabilize these regions.

Another distinguishing characteristic of the lithosphere is its flow properties. Give the influences of the low-intensity, long-term stresses that drive plate tectonic motions, the lithosphere responds as a rigid shell which deforms primarily through brittle failure. However, the asthenosphere (the layer of the mantle below the lithosphere) is heat-softened and accommodates strain through what is called plastic deformation.

Correlations: The Upper Mantle correlates to both the Brow, or Third Eye, Chakra and the Mental Body.

The Brow Chakra, Chakra #5, or Third Eye Chakra (Illustration #9 & Illustration 30), is where awareness of both spiritual and physical essence merge and become manifest in the physical world. It connects to the 1st Cervical in the spine. Its color is indigo, for intuition and higher-level healing. Through this center we hear and see others in the world. It is also where we begin to understand their communication cues. Additionally, it is where we interrelate with the spiritual energies of our world, and others. The Brow Chakra is often called the seat of spiritual knowing. It is definitely an important spiritual center.

The Mental Body – 4th Layer of Subtle Bodies – is just beyond the Emotional Body, lies the level of the Mental Body (Illustration 32). It connects to the Brow Chakra (#4). This is another area directly linked with the brain/mind organism. It connects with the Nimbus and the so-called 5th Brain in a way that can either facilitate or restrict intellectual and intuitive function. It is associated with mental processes. The Mental Body nourishes and balances the Nimbus.

It also helps facilitate the link with Divine Wisdom. It is the area activated during altered states. When the chakras are opened and activated, they also draw directly upon the Mental Body and the higher awareness of the God Force.

If this area is cluttered and cloudy, the individual's perception of the world is similarly distorted. When Eastern philosophies refer to "right thinking" this is the area which is most directly affected and activated.

The Material/Physical Bodies: Layer 7, Asthenosphere

The asthenosphere is a region in the upper mantle of the earth's interior. The name comes from a Greek word meaning "without strength." It is the region of the Earth between 100 and 200 km (~ 62 and 124 miles) below the surface — but perhaps extending as deep as 400 km (~ 249 miles) — that is the weak or "soft" zone in the upper mantle – and is characterized by low-density, semi-plastic (or partially molten) rock material chemically similar to the overlying lithosphere. Under the thin oceanic plates, the asthenosphere is usually much nearer the seafloor surface. At mid-ocean ridges, it rises to within a few kilometers of the ocean floor.

The upper part of the asthenosphere is believed to be the zone upon which the great rigid and brittle lithospheric plates of the Earth's crust move about. In spite of its heat, pressures keep it plastic, and it has a relatively low density. It is the ductile (able to undergo change of form without breaking; capable of being molded or shaped; plastic) part of the earth just below the lithosphere. These plates in the Earth's crust move a little bit each year as they slide on top of the asthenosphere. This layer can be pushed and deformed like silly putty, flowing because of the warmth of the Earth. The flowing asthenosphere carries the lithosphere including the continents, plants, animals and you on its back.

Deep-zone earthquakes, i.e., those that occur in the asthenosphere or below it, may be caused by crustal plates sinking into the mantle along convergent crustal boundaries.

Correlations: The Asthenosphere correlates with the Emotional Body and the Throat Chakra.

The Throat Chakra - 6th Chakra. Once we begin to share ourselves with others, or speak our truths in the world, Chakra #6, the Throat Chakra (Illustration 34 & Illustration 35), is activated. It connects to the 3rd Cervical in the spine. This center is not limited to physical communication. It is also a center for spiritual communication. Our intuitive listening and speaking are directed through this channel. It vibrates with a range of blue colors, for all levels of communication. Once we have gained intuitive communication, and we have heard and seen others, we can use this center to facilitate a sharing of what we feel, and who we are as individuals.

Emotional Body – (3rd Level): Extending beyond the Etheric envelope is the Emotional Body (Illustration 36). This level of the system roughly follows the contours of the Physical Body. It normally extends anywhere from three inches to three feet beyond the edge of the Etheric Body. It directly connects to the Spleen Chakra (#2). Being closest to the Physical and Etheric bodies, it has the most immediate effect upon these two systems. Emotional responses affect the Emotional Body in both productive and adverse ways.

Correlating Human Energy Systems for Material Layer 7, Asthenosphere

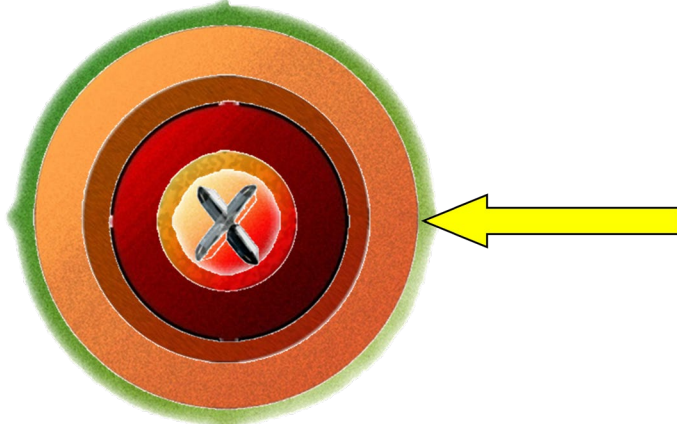


Illustration 33: The Asthenosphere



Illustration 34: Throat Chakra

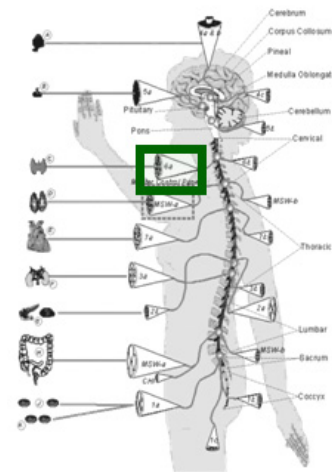


Illustration 35: Throat Chakra Profile

Layer 3 – Emotional Body



Illustration 36: Emotional Body

The Material/Physical Bodies: Layer 8, Crust, Outer Lithosphere

The crust, or lithosphere, of the Earth is composed of a wide variety of igneous, metamorphic, and sedimentary rocks. It is 30 to 50 Km thick (about 10 Km thick under the deepest oceans), and composed mostly of Silicic Rocks, Andesite, Basalt at Base. The crust is outside of the mantle. Earth's crust occupies less than 1% of the overall planet's volume.

Similar to the Upper Mantle, or Lithosphere, the oceanic crust is different from its continental crust. The oceanic crust is 5 km to 10 km thick, and is composed primarily of basalt, diabase, and gabbro. The continental crust is typically from 30 km to 50 km thick, and composed mostly of less dense rocks than the oceanic crust. These less dense rocks include granite, which is common in the continental crust, but rare to absent in the oceanic crust. The continental crust and the oceanic crust are sometimes called sial and sima respectively. It is believed that on continents at a certain depth, sial becomes close in its physical properties to sima, and the dividing line is called the Conrad discontinuity.

The temperature of the crust increases with depth, reaching values typically in the range from about 500° C (900° F) to 1,000° C (1,800° F) at the boundary with the underlying mantle. The crust and underlying relatively rigid mantle make up the lithosphere. Because of convection in the underlying plastic structure, although non-molten, upper mantle and asthenosphere, the lithosphere is broken into tectonic plates that move.

Correlations: The Crust relates directly to the human's Physical Body. Also, the upper 30 feet of the crust correlate to the Heart Chakra. The water components of the Crust correlate to the Emotional Body.

The Physical Body is the manifest vehicle in which human beings live. It is the flesh and bone, living life partner for spirit and mind. The physical bodies interact on a material basis with the environment of the Earth itself.

Heart, or Fulcrum Center – 7th Chakra: Chakra #7 is the Heart, or Fulcrum Center (Illustration 39 & Illustration 40). It consists of a single chakra. Many refer to this as the Heart Chakra. Here is the sub-system of the Principle Chakras comprised of a single chakra. It connects to the 2nd Thoracic in the spine, and its primary organ connection is to the heart. It also affects the lungs. The primary color is green, for health, prosperity and growth. It is the pivotal balance point of the entire chakra system.

Emotional Body – (3rd Level): Extending beyond the Etheric envelope is the Emotional Body (Illustration 36). This level of the system roughly follows the contours of the Physical Body. It normally extends anywhere from three inches to three feet beyond the edge of the Etheric Body. It directly connects to the Spleen Chakra (#2). Being closest to the Physical and Etheric bodies, it has the most immediate effect upon these two systems. Emotional responses affect the Emotional Body in both productive and adverse ways.

Correlating Human Energy Systems for Material Layer 8, Crust, or Outer Lithosphere

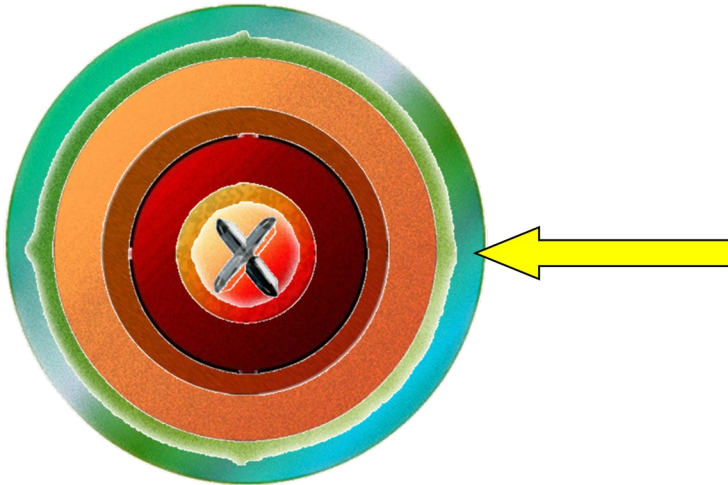


Illustration 37: Crust

Layer 1 – Physical Body

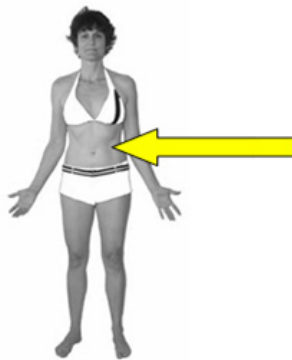


Illustration 38: Physical Body

Layer 3 – Emotional Body

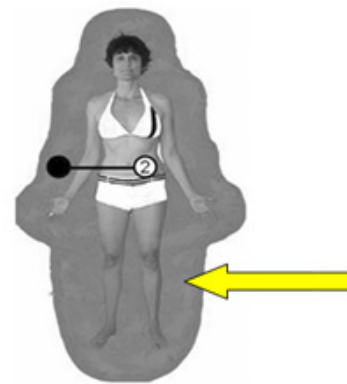


Illustration 39: Emotional Body (same as Illustration 36)

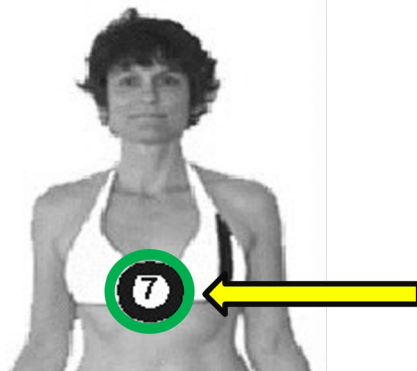


Illustration 40: Heart Chakra

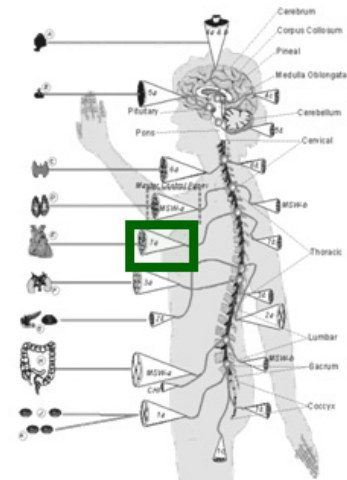


Illustration 41: Heart Chakra Profile

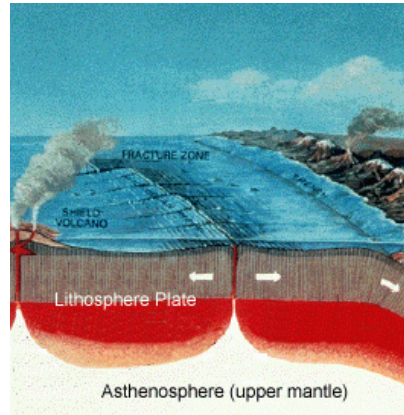


Illustration 42: Crust With the Oceanic Plates

The crust is the upper layer of the Earth. Under the oceans it is only about 5 km thick while under the continents it can be up to 65 km thick.

The Atmospheric Bodies – Second Five Layers

The Earth is surrounded by a blanket of air called the atmosphere. The atmosphere can be thought of as a series of roughly spherical regions or shells. It reaches over 560 kilometers (348 miles) from the surface of the Earth, so we are only able to see what occurs fairly close to the ground.

The atmosphere is made up of various gases that act as a protective shield for the Earth and allow life to exist. Without it, we would be burned by the intense heat of the sun during the day or frozen by the very low temperatures at night. The atmosphere is the air that we breathe. It is also the wind that blows through our hair and the clouds that float in the sky. All the weather that takes place is part of the atmosphere. The atmosphere surrounds us at every moment, keeping us alive and warm. It is the part of the Earth system that we are most familiar with; so familiar that we often take it for granted. Without the atmosphere, we would perish within minutes.

The atmosphere consists of five layers, held around the planet by the force of gravity. The five layers are the Troposphere, the Stratosphere, the Mesosphere, the Thermosphere and the Exosphere.

Life on Earth is supported by the atmosphere, solar energy, and our planet's magnetic fields. The atmosphere absorbs the energy from the Sun, recycles water and other chemicals, and works with the electrical and magnetic forces to provide a moderate climate. The atmosphere also protects us from high-energy radiation and the frigid vacuum of space

Earth's Atmospheric Bodies

©Laverne E. Denyer, 2007/8

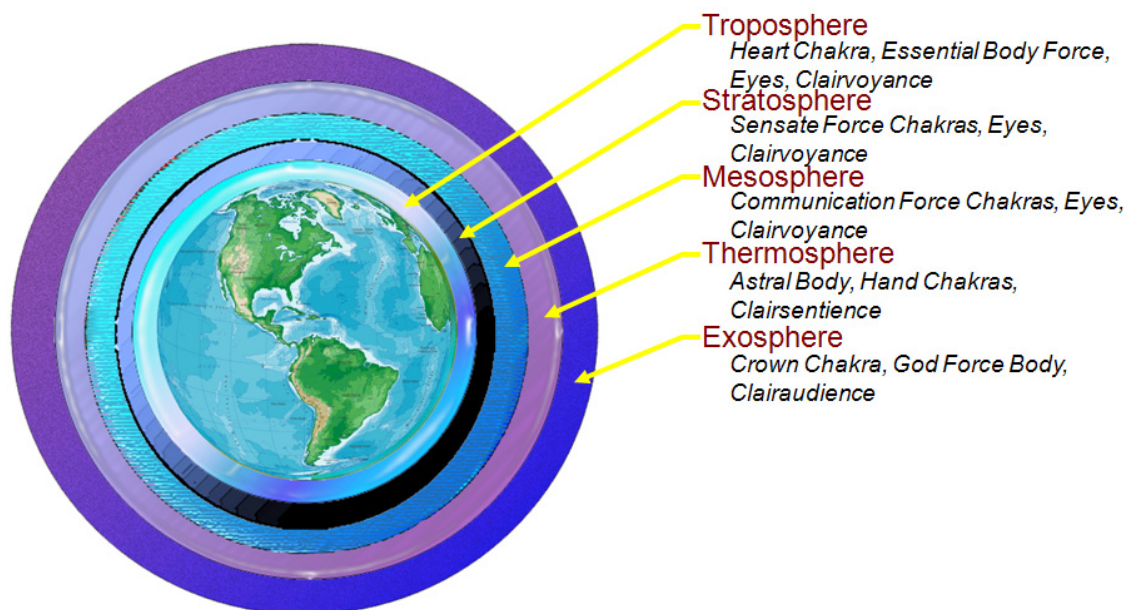


Illustration 43: Earth's Five Atmospheric Bodies

The Atmospheric Bodies: Layer 9, Troposphere

The word troposphere is derived from the Greek word meaning to turn or change. The troposphere is the lowest layer of the atmospheric layers; it begins at the surface and extends to between 7 km (23,000 ft) at the poles and 17 km (60,000 ft) at the equator, with some variation due to weather factors. It contains roughly 80% of the total mass of the atmosphere. 50% of the total mass of the atmosphere is located in the lower 5km of the troposphere.

The troposphere is the layer closest to the Earth. It troposphere starts at the Earth's surface and extends 8 to 14.5 kilometers high (5 to 9 miles). This part of the atmosphere is the densest. As you move higher in this layer, the temperature drops from about 17 to -52 degrees Celsius.

The troposphere is where all weather takes place; it is the region of rising and falling packets of air. The air pressure at the top of the troposphere is only 10% of that at sea level (0.1 atmospheres). Weather occurs only in this layer because it is this layer that contains most of the water vapor. Weather is the way water changes in the air, and so without water there would be no clouds, rain, snow or other weather features. There is a thin buffer zone between the troposphere and the next layer called the tropopause.

Correlating Human Energy Systems for Atmospheric Layer 9, Troposphere

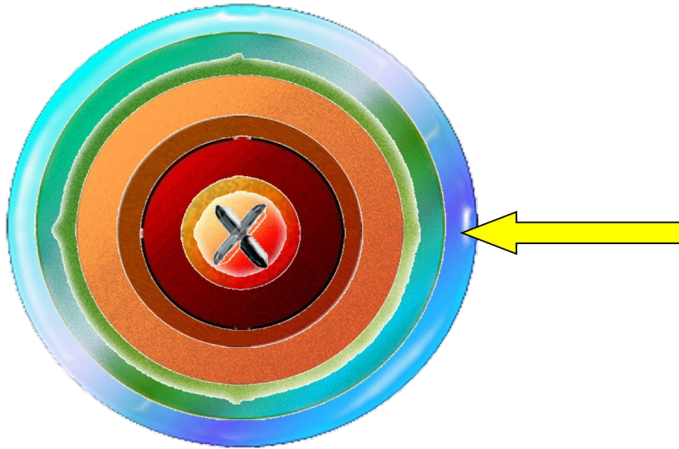


Illustration 44: Troposphere

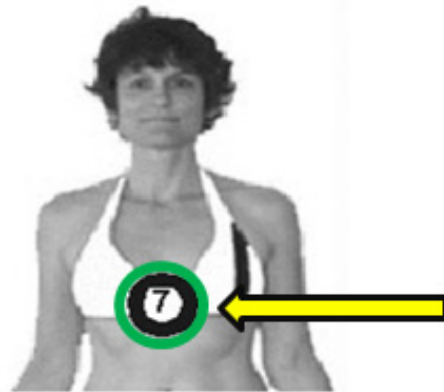


Illustration 45: Fulcrum/Heart Chakra
(Same as Illustration 39)

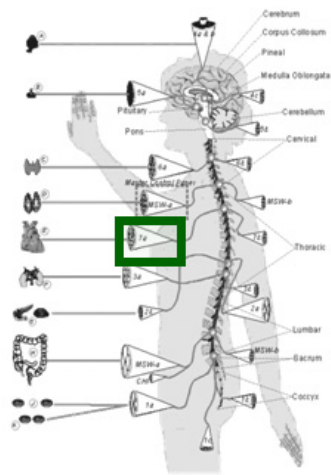


Illustration 46: Fulcrum/Heart Chakra Profile



Illustration 47: Essential Body Force Chakras

The troposphere is an unstable layer where the air is constantly moving. As a result, aircraft flying through the troposphere may have a very bumpy ride – what we know as turbulence. You may have experienced this when flying before! Because of this turbulence, most jet airlines fly higher above the Earth in the stratosphere. Here the air is more still and clear as they can fly above the clouds.

Correlations: The troposphere correlates to the Fulcrum/Heart Chakra, the Essential Body Force Chakras, Eyes, and Clairvoyance.

The Fulcrum/Heart Chakra has a crossover between this layer and the outer thirty (30) feet of the Earth's Crust.

Heart, or Fulcrum Center – 7th Chakra: Chakra #7 is the Heart, or Fulcrum Center (Illustration 39 & Illustration 40). It consists of a single chakra. Many refer to this as the Heart Chakra. Here is the sub-system of the Principle Chakras comprised of a single chakra. It connects to the 2nd Thoracic in the spine, and its primary organ connection is to the heart. It also affects the lungs. The primary color is green, for health, prosperity and growth. It is the pivotal balance point of the entire chakra system.

Essential Body Force: The first three chakra centers constitute the Essential Body Force (Illustration 47). Within this subsystem is energy which activates the physical body and affects/reflects the level of stability a living being experiences. It is, as the name implies, essential that these three centers be in good working order for the rest of the body to function at peak efficiency. The centers have no spinal connections.

The Essential Body Force centers are chameleon in nature. They vibrate to the emotional, spiritual and physical well-being that the individual experiences at any given moment. This changeability affects the color frequency and size of the centers even more than most others.

Clairvoyance is the psychic ability to see beyond normal physical frequencies. This ability is facilitated through the Third Eye, or Brow Chakra, and is routed through the nerve structure of the eyes directly into the brain.

The Atmospheric Bodies: Layer 10, Stratosphere

This refers to the regions of the stratosphere and the mesosphere, along with the stratopause and mesopause. These layers are called the *middle atmosphere* by scientists.

The word stratosphere comes from the Latin word "stratus" meaning a spreading out. The stratosphere extends from the troposphere's 7 to 17 km (23,000 – 60,000 ft) range to about 50 km (160,000 ft). Temperature increases with height. The stratosphere contains the ozone layer, the part of the Earth's atmosphere which contains relatively high concentrations of ozone. "Relatively high" means a few parts per million—much higher than the concentrations in the lower atmosphere but still small compared to the main components of the atmosphere. The ozone layer is mainly located in the lower portion of the stratosphere from approximately 15 to

35 km (50,000 – 115,000 ft) above Earth's surface, though the thickness varies seasonally and geographically.

The stratosphere starts just above the troposphere and extends to 50 kilometers high. Compared to the troposphere, this part of the atmosphere is dry and less dense. The temperature in this region increases gradually to -3 degrees Celsius, due to the absorption of ultraviolet radiation. The ozone layer, which absorbs and scatters the solar ultraviolet radiation, is in this layer. Ninety-nine percent of "air" is located in the troposphere and stratosphere. Air flow at this layer is mostly horizontal.

This layer is primarily responsible for absorbing the ultraviolet radiation from the sun. The formation of this layer is a delicate matter, since only when oxygen is produced in the atmosphere can an ozone layer form and prevents an intense flux of ultraviolet radiation from reaching the surface, where it is quite hazardous to the evolution of life. There is considerable recent concern that manmade fluorocarbon compounds may be depleting the ozone layer, with dire future consequences for life on the Earth.

The stratosphere is characterized by a slight temperature increase with altitude and the absence of clouds. The stratosphere extends between 11 and 31 miles (17 to 50 kilometers) above the earth's surface. The earth's ozone layer is located in the stratosphere. Ozone, a form of oxygen, is crucial to our survival; this layer absorbs a lot of ultraviolet solar energy. Only the highest clouds (cirrus, cirrostratus, and cirrocumulus) are in the lower stratosphere.

Correlations: The stratosphere correlates with the Sensate Force Chakras, the Eyes and Clairvoyance.

Clairvoyance is the psychic ability to see beyond normal physical frequencies. This ability is facilitated through the Third Eye, or Brow Chakra, and is routed through the nerve structure of the eyes directly into the brain.

Sensate Force : The first level of the Principle Centers is the Sensate Force (Illustration 49 & Illustration 50). These three chakras are the energy centers responsible for human awareness and animation. They are also the first three of the seven major centers most commonly discussed in other literature. They each connect to the spinal column through nadis and reside within the abdomen (abdominopelvic cavity).

Correlating Human Energy Systems for Atmospheric Layer 10, Stratosphere

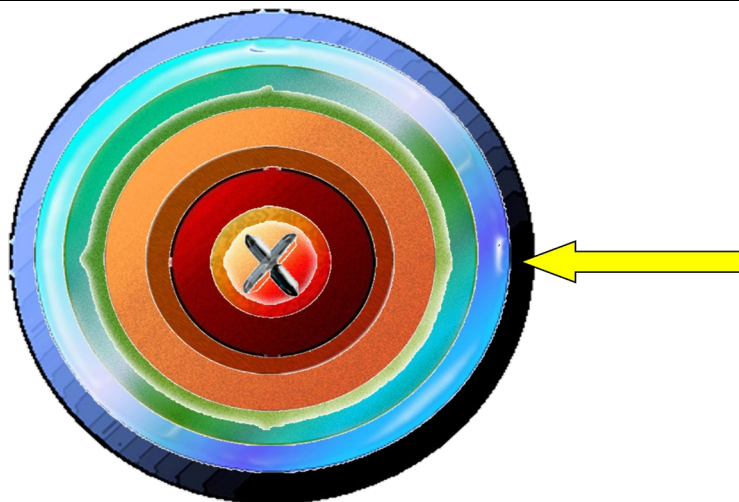


Illustration 48: Stratosphere

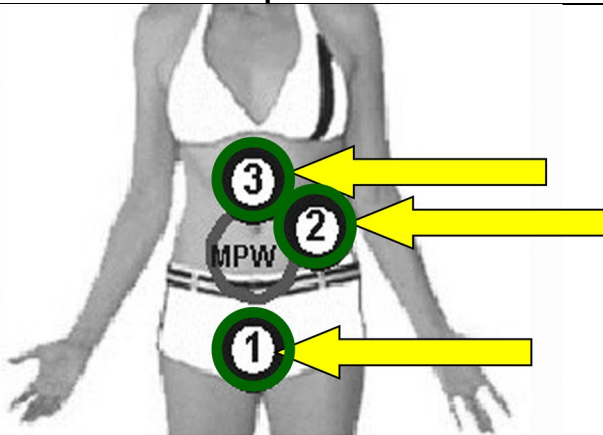


Illustration 49: Sensate Force Chakras

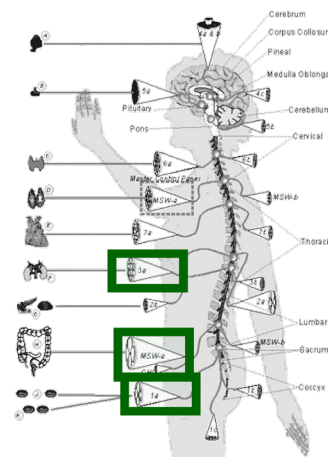


Illustration 50: Sensate Force Chakra Profile

The Atmospheric Bodies: Layer 11, Mesosphere

The word Mesosphere comes from a Greek word meaning middle. The mesosphere extends from about 50 km (160,000 ft) to the range of 80 to 85 km (265,000 – 285,000 ft), temperature decreasing with height. In this region, the temperatures again fall as low as -93 degrees Celsius as you increase in altitude. This is also where most meteors burn up when entering the atmosphere.

Correlations: The mesosphere correlates to the Communication Force Chakras, Eyes, and Clairaudience.

Clairaudience is the psychic ability to hear beyond normal physical frequencies. This ability is facilitated through the back of opening of the third eye chakra – the one at the base of the skull

in the back of the head, and is routed through the nerve structure of the ears directly into the brain.

Correlating Human Energy Systems for Atmospheric Layer 11, Mesosphere

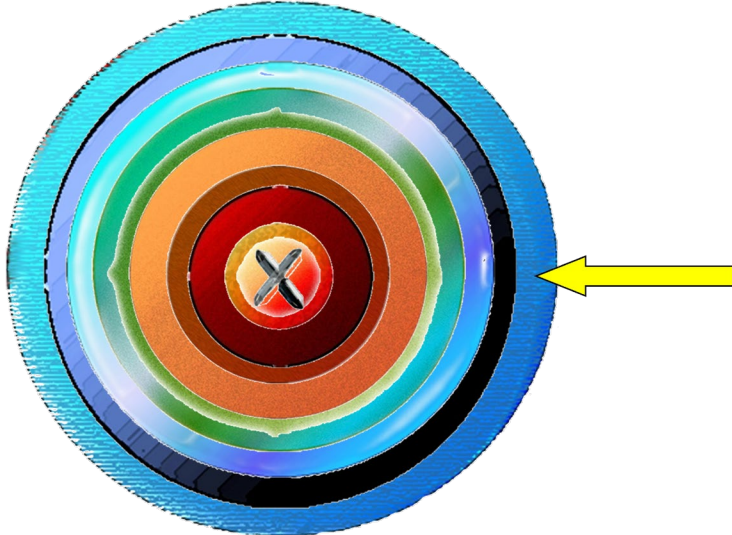


Illustration 51: The Mesosphere

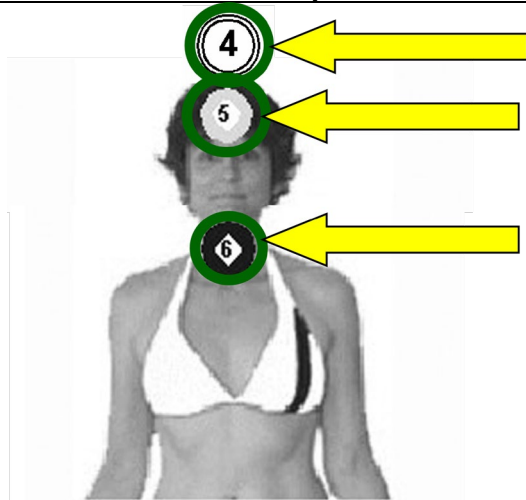


Illustration 52: Communication Force Chakras

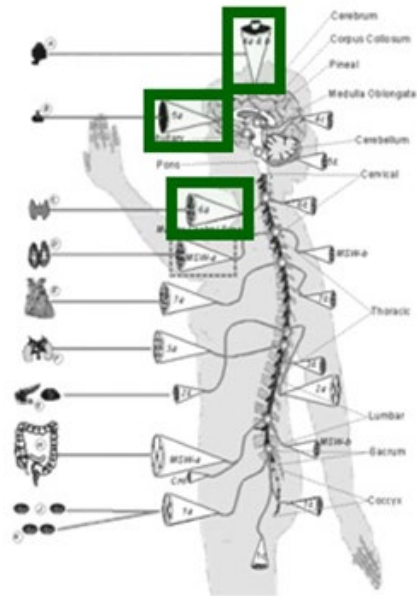


Illustration 53: Communication Force Chakras Profile

Communication Force Centers: Located just above the Fulcrum center and running up to the top of the head, you find the three Communication Force centers (Figure 5-11). These centers are charged by spiritual essence and provide for a channel of information flow from spirit to matter.

The Atmospheric Bodies: Layer 12, Thermosphere/Ionosphere

The thermosphere starts just above the mesosphere and extends to 600 kilometers (372 miles) high. The temperatures go up as you increase in altitude due to the Sun's energy. Temperatures in this region can go as high as 1,727 degrees Celsius. Chemical reactions occur much faster here than on the surface of the Earth. This layer is known as the upper atmosphere.

Space shuttles fly in this area and it is also where the aurora lights are found. Auroras are wispy curtains of light caused when the sun strikes gases in the atmosphere above the Poles.

The Ionosphere is the part of the atmosphere that is ionized by solar radiation. It plays an important part in atmospheric electricity and forms the inner edge of the magnetosphere. The ionosphere is very thin, but it is responsible for absorbing the most energetic photons from the Sun. It has practical importance because, among other functions, it influences radio propagation to distant places on the Earth. It is also responsible for the auroras.

The structure of the ionosphere is strongly influenced by the charged particle wind from the Sun (Solar Wind), which is in turn governed by the level of Solar activity. One measure of the structure of the ionosphere is the free electron density, which is an indicator of the degree of ionization.

The structure of the ionosphere is strongly influenced by the charged particle wind from the Sun (solar wind), which is in turn governed by the level of solar activity. One measure of the structure of the ionosphere is the free electron density, which is an indicator of the degree of ionization.

A variety of experiments, such as HAARP (High Frequency Active Auroral Research Program), involve high power radio transmitters to modify the properties of the ionosphere. These investigations focus on studying the properties and behavior of ionospheric plasma, with particular emphasis on being able to understand and use it to enhance communications and surveillance systems for both civilian and defense purposes. HAARP was started in 1993 for a proposed twenty year experiment.

In 1899, Nikola Tesla researched ways to utilize the ionosphere to transmit energy wirelessly over long distances. In his experiments, he transmitted extremely low frequencies between the earth and ionosphere, up to what is called the Kennelly-Heaviside Layer (Grotz, 1997). Tesla made mathematical calculations and computations based on his experiments. He predicted the resonant frequency of this area within 15% of modern accepted experimental value. (Corum, 1986) In the 1950s, researchers confirmed the resonant frequency was at the low range 6.8 Hz. There have been many experiments, discoveries and even legal actions regarding the energies in the ionosphere since then.

Correlations: The Thermosphere/Ionosphere correlates with the Astral Body, the Hand Chakras, and Clairsentience.

This layer is the one through which each person gathers and uses the higher power forces to make manifest in the earthly plane. It connects to the creative forces of the Macrocosms and channels them into the first layer of the atmosphere, using the base energies of the crust to make manifest. This layer also relates to clairsentience.

Astral Body – (5th Layer): Surrounding the Mental envelope is the Astral Body (Figure 8-8). It is the first body of higher awareness. It interconnects with the Fulcrum/Balance Chakra (#7). This subtle body level is where many energy patterns develop which could eventually nourish or damage the Physical Body. If there are spirit possessions, they will cling at this level. Emotions will either cleanse or contaminate this subtle body with vortexes and blockages. External attachments from other people will manifest here first. At this level, humans experience much of their energy interaction. Most of our energy flows from person to person through the Astral Body level. Charges from the Emotional level flow through the Astral level and impact the energy systems of other people. Some of the experiences can be noticeably pleasant, while others are quite unpleasant, or even dangerous.

The Astral Body is the first level of the brain/mind/spirit partnership that can separate from the physical vehicle (Illustration 56). Such separation is known as Astral Travel. Astral travel has become a fairly common topic of discussion in modern society. Most people have at least heard it being discussed. When an altered state of consciousness is achieved through meditation, sleep, shock, drugs or the like, the Astral Body is free to travel through the etheric realms separate from the physical partner. There is always a connecting cord, referred to as the Silver Chord of Life (Illustration 56), between the physical and the astral selves. The Silver Chord originates in the navel, connecting it to the Master Physical Will Chakra (MPW). Just as we have an umbilical cord in the womb, we have an umbilical cord between the Physical and Astral bodies. However, this umbilical is not discarded after birth, but stays intact as long as we live. As long as there is life in the physical body, the astral body can travel to other dimensions, other places on the earth, other times and other planets with the assurance that it can return to its place of origin upon completion of the journey.

Hand Chakras: Besides the Material Chakras, the Energetic Body System contains Secondary Chakras. This set of chakras is further sub-divided into three systems; the Master, Principle and Secondary Chakras. Two Secondary Chakra centers are more active than the rest. They are the ones in the palms of each hand. These I call Major Secondary Chakras (Illustration 57). They move the healing communication in and out of the body, usually connecting to an external source. It is like having two little spigots that can directly access and affect the energy from the entire system.

Above a height of about 500km is the exosphere, a layer where the atmosphere merges into space. Satellites are stationed in this area, 500km to 1000km from Earth. The exosphere starts at the top to the thermosphere and continues until it merges with interplanetary gases, or space. In this region of the atmosphere, Hydrogen and Helium are the prime components and are only present at extremely low densities.

Correlating Human Energy Systems for Atmospheric Layer 12, Thermosphere / Ionosphere

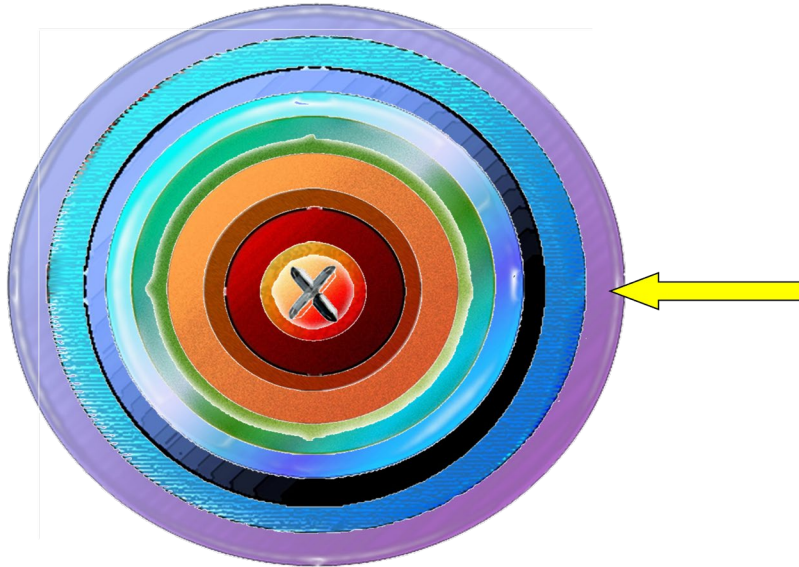


Illustration 54: The Thermosphere / Ionosphere

Layer 5 – Astral Body

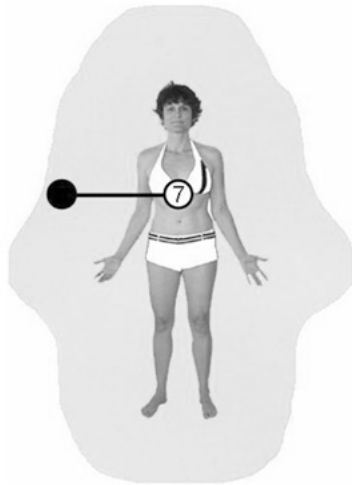


Illustration 55: Astral Body

Astral Body Separation

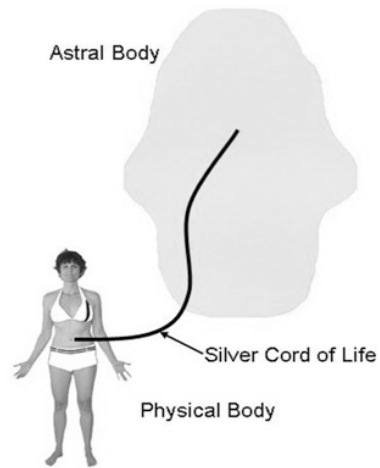


Illustration 56: Astral Body Separation

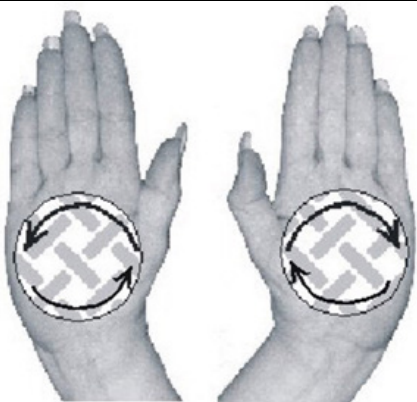


Illustration 57: Hand Chakras

The Atmospheric Bodies: Layer 13, Exosphere

The exosphere is the zone from which atoms and molecules are continuously escaping into space, becoming free-moving particles that may migrate into and out of the magnetosphere or the solar wind.

Correlating Human Energy Systems for Atmospheric Layer 12, Exosphere

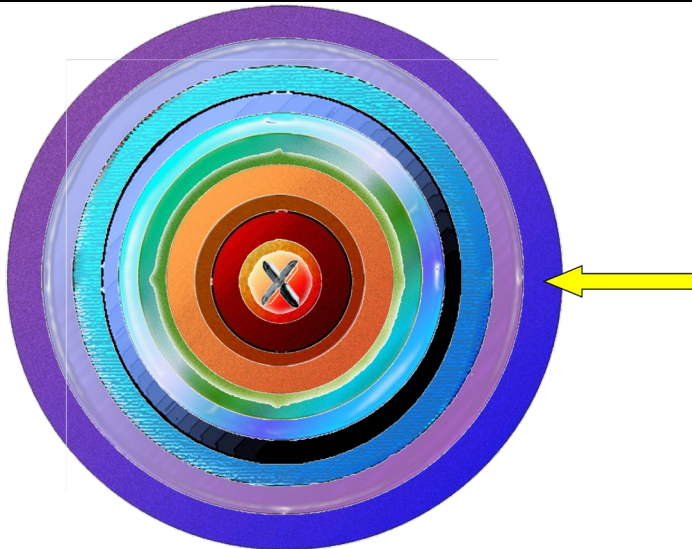


Illustration 58: Exosphere



Illustration 59: Crown Chakra

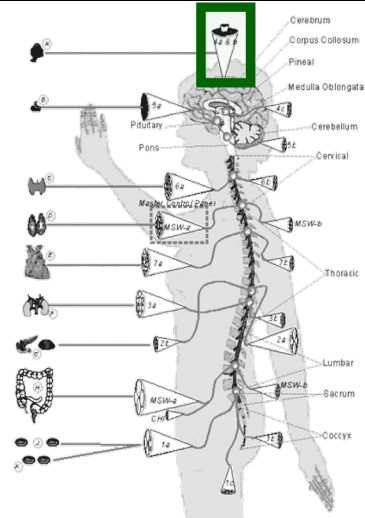


Illustration 60: Crown Chakra Profile

Correlations: The outer layer of the atmosphere is the Crown Chakra and the outer layer of the subtle body system. In fact it is the outer two layers of the human energy system. It also relates to clairsentience and communication with the higher self.

Crown Chakra – 4th: First is Chakra #4, the Crown Chakra (Illustration 59). Remarkably, it has no direct spinal connection. This is the second of the two centers which have three openings. One of the smaller openings is nested into the primary one at the top of the head, and a

secondary center is located at the back of the head. This chakra has three functional openings similar to the Base Chakra. The centers work in tandem in much the same way as the openings of the Base Chakra. Both the Crown Chakra and the Base Chakra are the first openings for an energetic force into the body, having similar properties.

This is the center that is first nourished by universal spiritual, or God Force, energies. The energies flowing from the higher force flow downward to the rest of the system from this chakra.

The primary chakra enters the very top of the head and connects via the nadi to the pineal gland in the middle of the brain, rather than to a spinal connection. A secondary, and smaller, funnel enters the top of the head into the primary opening, extending about a third of its length into the primary center. Another secondary center enters the back of the head to connect at the same point in the pineal.

The Crown Chakra vibrates to a beautiful violet color representative of high spirituality and transmutation. The smaller vortex protruding out of the center vibrates to a bright golden color representative of the God Force. It is clearly part of the Spiritual Trinity.

This is where the fundamental potential of intuition and communication begins. It has a smaller chakra within it that many believe to be the residence of the brain/mind. Researchers like Barbara Meister-Vitale (1984) call this the "5th brain." With its proximity to the top center in the Mind/Personality Quadrant, it acts as a conduit between soul, mind and brain. It is an extremely important center that few people fully understand or access.

Clairsentience: This relates to the psychic intuition of "knowing" information. There are no pretty pictures or lovely sounds. There is a simple, yet profound, flood of information beyond what is observable in the material world.

Magnetosphere: A Super System for the Planet

Beyond the primary thirteen bodies of the earth's energy system is a unique system called the Magnetosphere. (5000 km to >> 60,000 km) A magnetosphere is the region around an astronomical object in which phenomena are dominated or organized by its magnetic field. I separated this structure from the others because it is more of a protective body than a direct structure within the system.

The magnetosphere of Earth is a region in space whose shape is determined by the extent of Earth's internal magnetic field, the solar wind plasma, and the interplanetary magnetic field (IMF). In the magnetosphere, a mix of free ions and electrons from both the solar wind and the Earth's ionosphere is confined by magnetic and electric forces that are much stronger than gravity and collisions. In spite of its name, the magnetosphere is distinctly non-spherical. On the side facing the Sun, the distance to its boundary (which varies with solar wind intensity) is about 70,000 km (10-12 Earth radii or RE, where 1 RE=6371 km; unless otherwise noted, all distances here are from the Earth's center). The boundary of the magnetosphere ("magnetopause") is roughly bullet shaped, about 15 RE abreast of Earth and on the night side

(in the "magnetotail" or "geotail") approaching a cylinder with a radius 20-25 RE. The tail region stretches well past 200 RE, and the way it ends is not well-known.

The outermost shell is enormous and is strongly influenced by the interaction of Earth's magnetic field and the solar wind. It contains the Van Allen radiation belts where high energy charged particles are trapped and concentrated. This is the region occupied by Geosynchronous Satellites.

Correlations: This structure correlates to the Mana and Prana forces.

The Prana Force: The Prana Force is the original force of the Universe. It is the masculine aspect of the Universal Energy Force (Illustration 62). Similar to the way light and color work, the Prana Force is the pure, unharnessed energy that is the origin of everything else. When pure light energy transforms into frequencies: color occurs. Color is the definition of light, or the creative element of the base force. Color is feminine, the Mana Force. Prana combines with Mana to energize the world.

The Prana Force, or God Force, is manifest in earthly dimensions as a duality. The masculine is God, basic animation of material and spiritual essence. The feminine is Goddess, or Mana Force, which bends and forms the basic animation to give it shape and substance. Take the concept that lies behind the biblical quotation "Let there be light," then bend and alter its frequencies to manifest it as color.

The Prana Force abounds in the atmosphere at all times. It is the basic building block of life and the nourishment of all else. It flows directly into the Living Energy System through the palms of the hands and the spleen. Indirectly, it flows into the system as part of the Mana Force.

The Mana Force: The material and energetic bodies are nourished, in part, by the Mana Force. According to the American Heritage Dictionary, Mana is: "a. An impersonal supernatural force believed to be inherent in a person, god, or sacred object." and "b. Power; authority inherent in the ethers." This is the feminine aspect of the God Force. The Mana Force enters the physical and energetic bodies of living beings to energize and sustain life. The source of the Mana is the same source that energizes the world. Some call it nature, some call it God. Some don't know what to call it. I refer to it as part of the God Force. In actuality, it is better referred to as the Goddess Force, since it is the feminine aspect. It is what enables life on earth.

The flow of the Mana into physical form is illustrated in Illustration 62. It is subdivided into three aspects: Collective, Temporal (earthly), and Spiritual. The Collective Mana energy refers to the universal consciousness that integrates the entire planet. This relates to the Gaia force. The Temporal Mana energy emanates from the Earth itself. Here is the physical life force that flows from the very core of the Earth into each being. It enters the body in two places: the stability chakras (numbers 9 and 10) at the feet and the Base Chakra (number 1) at the base of the pelvis. The flow from the Earth feeds the physical body and allows it to live in the physical world. Life force energy then cycles upward along the spinal column to discharge out the top of the Crown Chakra into the Collective Mana. This continuous flow creates a living fountain of energy designed to nourish the all life. The third aspect is the Spiritual Mana. That is the energy directed through the ethers from the God Force. It enters through the upper Spiritual Trinity chakras then flows into the Crown Chakra. The Mana then flows downward through the

physical/energetic bodies to exit into the Earthly Trinity. From there it pours into the core of the Earth, give life and sustenance to the Earth itself.

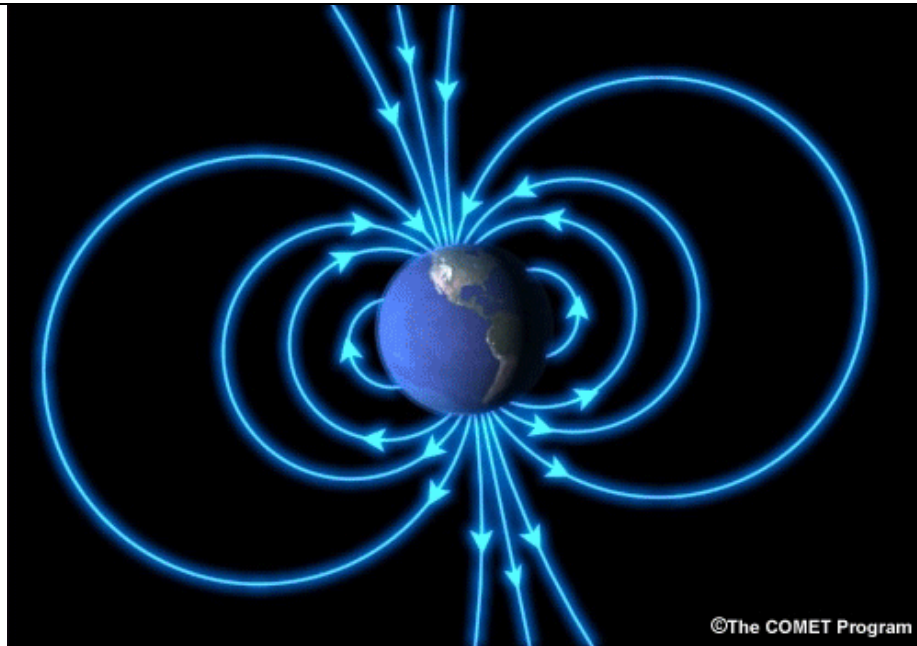


Illustration 61: The Earth's Magnetosphere

MANA-PRANA FORCE

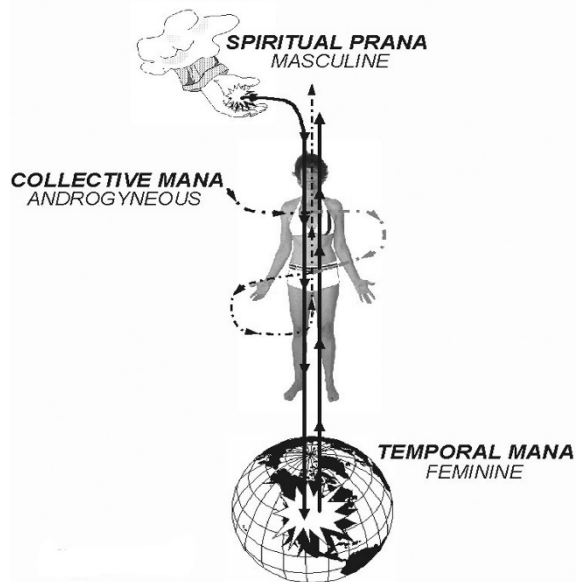


Illustration 62: Mana-Prana Force

As an individual lives and thrives, s/he is part of a continuing cycle of life. Spirit energizes Earth through living beings. The Earth energizes living beings. All living beings intermingle and energize one another. This trinity of the life force is powerful and commanding. Through connection with these Mana forces we live and thrive. When we disconnect, for whatever reason, we wither.

And Beyond.....

There is much more to this planet than these few structures. There are power places on the surface of the planet that connect to the entire system, and continue to correlate with components of the human energy system. But that is another paper.....

We of the Shin Maa

We of the Shin Maa are an order of angelic beings who are here to help you remember your soul purpose and work with planetary souls. We are the guardians and teachers of the souls sharing space with the Gaia entity.

When the planet was formed, the original soul beings were purely gaseous, with consciousness and no solid form. The amorphous, shifting energies could easily interact and be connected with their higher wisdom. They realized that their testing depended upon greater distance from natural wisdom. So they requested more density of form. We obliged by spinning their gaseous energies into fluid form. For a very long time that form served them well. They were still connected, yet the denser energies enabled them to experience life (growth) on a more basic level. Their teaching experiences began to have effect. When they felt they had experienced all they could in that form, they once more turned to us for help. They realized that deeper lessons were available as they distanced themselves from full wisdom. They were ready for the next stage of learning.

To create greater learning vehicles, we spun the energy into crystalline, physical mass. Since the material form needed substance and other physical forms to interact with, we spun them an environment. We spun a body for the body of the Gaia soul, or what you know as the Earth.

Then we spun denser physical forms, or bodies, for their souls. The beings were pleased with their new bodies. In their new forms, they had many new opportunities for growth along with new forms of wisdom to explore. Their learning quest was accelerated. They were satisfied to work together to discover their challenges and successes. They were content . . . for a long time.

After a long time, they desired another, more challenging, opportunity. They wanted to test and learn more from their host bodies. They wanted to explore the Earth environment. Yet they still had a ready connection to their wisdom core, or soul. At that time, they returned to us for counsel. These early Earthwalking souls felt that they could learn more from each other and their environment if they could only set aside more of their wisdom connection. We all pondered the possibilities. Eventually, the decision was made. A set of energetic crystalline forces was implanted into the physical body. The crystalline forms, called Impedance Crystals, were

designed and set in place to block their natural connection with their soul, or natural, wisdom. A final design for spiritual beings to travel upon the Earth body with vulnerability was created.

That same design exists today. Through the nature of your dense crystalline/fluid bodies and the crystalline implants, you are challenged to live, experience and grow in relative ignorance. Without the aid of a full wisdom connection, you constantly test yourselves to discover your vulnerabilities and your strengths. Through your separation, you learn and mature. It is an intensely powerful and challenging form. You are to be commended for your courage and clear intent

The Creation Story

How did this magnificent planet and all of its structures and cell bodies happen to be here? That is a question asked by humankind since the beginning of time.

Below is a story that may, or may not, explain it for you. Feel free to read and enjoy it. For me, it was the beginning of my quest to understand the structure of the Earth and how our Living Energy Systems interact with it.

The Shin Maa & Earth's Creation Story

Laverne E. Denyer

The soul's body had died...

Going nova in a beautiful display of fire and energy releasing the soul from the tired body so long inhabited, the soul had taken a long, and well deserved rest.

Now it was time to prepare for the next incarnation. The soul named Maa was ready for rebirth into a new and lovely body. So it came to the Shin. The Shin are the angelic order of souls who help create, monitor and support planetary bodies within the Macrocosms. The Macrocosms is "everything there is." Maa is a planetary soul ready for a new body. A group of beings would now be assigned the task of spinning a material body for this soul's next life, and staying with it throughout that entire lifetime. We Shin would become the co-creators, guardians and teachers of the souls sharing a space and time adventure with the Maa entity. In this case, Maa was assigned twelve Shin.

Once we all agreed, we added the soul's name to ours, becoming the Shin-Maa. This would be our designation and our task for the lifetime of the new planet-body. We would now be a team of thirteen soul partners: twelve Shin and Maa. The Shin Maa are part of the birth and rebirth cycle of the planet, and have been with this planetary soul since Maa's original request for a new

body. The members of the Shin agreed to live with, work with, and reincarnate with, the planetary soul throughout this lifetime. This is our responsibility, our challenge, and our joy.

We share our destinies and our duties with Maa. So this is OUR story, HER story, and YOUR story.

We began by seeking permission. We *all* work under the guidance and awareness of the higher power, the Tao / God source... at *all* times. This one power really is the original source and guiding authority of all that is, was, or ever will be, far beyond any planetary system or galaxy.

Think of this force in a scientific model. Think of it in a spiritual model. Or some combination. It is your choice!

It all comes back to that one unifying and creative force and consciousness. There is an underlying and over-arching force within the Macrocosms. This universal, all-encompassing power of love, wisdom, order, chaos, creation, and destruction is the source of all that we are and do. It is only through the auspices of the Tao/God power that these things are possible.

So we gained permission to create a new planetary life system for **Maa**. Part of this permission was access to the great creative force necessary to spin a new world and new lifetimes. We became the emissaries and wielders of the God force in our joint endeavor.

The soul's choice was to be female. There would be a balance of male and female energies throughout her system, but the overall force would be female. She chose the name Gaia. She knew that her inhabitants would have many other names for her, but her true name for this lifetime would be Gaia. The soul name, Maa, is eternal and the soul carries this name always. But like all other souls, the creation of a new life and a new body brings a new identity.

Now **SHE** is **GAIA**. And we would call her new planet body **Earth**.

Many decisions were made as we helped her plan her new body. We planned the structure and the process of development all very carefully.

The first order of business was to select a family and a location within the Macrocosms. Since these associations would be long-standing and fixed in proximity, the selection of a planet's family is very important, and is carefully considered. It was decided. Her new family would have a father figure called Sol, the single primary star of her solar system. The mother is the binding, creative force of space that holds these planets together in a cohesive structure. She was to be the fourth born into her new family, located in the third position from father Sol. That family would eventually include sister/brother planets Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto. Plus a couple of others that were anticipated to join the group at a later time. They would all reside within the larger community, referred to as a galaxy, given the name Milky Way.

Next it was decided that her body would hold samples of life forms and materials from many other planets and galaxies. Gaia would become a library and central repository of knowledge for other universes and soul clusters. This would also allow her to become a laboratory and school

of sorts for a series of evolving experimental life forms and minerals. Although onerous and challenging, this was seen as an exciting adventure that Gaia gladly accepted.

The souls that would join us would all have bodies structured in complimentary patterns designed to work with the new Gaia body. Each body pattern would differ, yet carry enough similarity to be a viable part of the greater body of this new planet. Each individual, or self (celf), would be a single cell within the larger system: a cell body.

Since this would be an evolving system, a process was developed where any new proposals must go through the committee of Gaia and the Shin Maa. As a result, the beings of the Shin Maa must agree to stay with Gaia throughout her entire lifetime, experiencing their own reincarnations with her. This we have done.

Once the location, family and structure were selected, and we were granted access to the Tao/God power, we began the creation process. We sent out a call for souls that were ready to be reincarnated, and who wanted to be part of this creation process.

Twenty responded and were accepted. They were taken into the fold as cell bodies for the new planet. Between Gaia, the Shin Maa, and the new cell body souls, we were an original soul group of thirty-three (33).

The Shin Maa were separate in some parts of our awareness, yet full participants in this grand experiment.

Stage 1: The first period of time.

We were all birthed into a gaseous cloud of pure life, a type of cosmic soup. The original soul beings were purely gaseous, with consciousness and no solid form. The amorphous, shifting energies could easily interact and be connected with our higher wisdom. These were our soul bodies made manifest into consciousness, or minds. We lived in this state long enough to get know one another and grow comfortable with what we were about to experience.

Stage 2: The second period of time.

The soul collective realized that the schooling and testing of souls would depend upon a greater distance from the natural wisdom of the Tao/God awareness. So the soul group requested more density of form. We obliged by using the ethereal energies to spin their gaseous forms into a new fluidic form. For a very long time, the fluidic form served all very well. All beings were still connected, yet the denser energies enabled all to experience life and growth on a more basic level. The learning experiences began to have effect. When the soul collective felt it had experienced all it could in that form, it once more turned to the Shin Maa for help.

Stage 3: The third period of time.

To create a denser learning vehicle, bodies, we needed to spin a mineral body for the Gaia/Maa soul. We also spun bodies for the cell bodies into pure crystalline, physical mass. For the first

time, we were somewhat separated by this crystalline form. No longer amorphous, or fully experiencing shared space, we now had some definition of self, some separation. Since the material form needed substance and other physical forms to interact with, we spun a basic environment. We all lived and learned in these new energy material bodies, a part of what we now recognize as subtle bodies.

Stage 4: The fourth period of time.

In time, we spun denser physical forms, or flesh bodies, to house our souls. We were pleased with our new flesh and blood bodies. In these new forms were many new opportunities for growth, along with new forms of wisdom, and new experiences, to explore. The bodies were living, physical partners that housed our souls. We all lived in partnerships of spiritual, cognitive, and physical bodies. The learning quest was accelerated.

Stage 5: The fifth period of time.

Later, to support these denser physical forms, we spun other material forms. We spun a denser and more structured body for Gaia. We first spun a set of powerful crystals for Gaia. The first was a set of twin hexagonal crystals, joined at right angles in the center. These were iron/carbon crystals set to spin an elliptical rotational pattern, eventually repeating and repeating. We set a third, purely energetic crystal on a perpendicular plane to the two physical crystals to help balance the rotation, and continue the triune pattern so far existent in the partnership of Gaia, the Shin Maa, and the Cell Bodies.

Then we created a set of elongated crystals. We placed them with their longest and narrowest points facing inward, around the outer edge of the spherical orbit of the twin crystals. From there, they radiated outward, creating a spherical pattern. Each Shin Maa created twelve primary crystals of differing frequencies and structures. That resulted in 144 primary crystals in addition to the original inner crystals. These crystals generated a powerful energetic force that was a beginning of Gaia's truly physical body. These combined forces were the beginning of the electro-magnetic forces present within Earth today. These forces interacted with the individual crystalline bodies created in the earlier stages.

We filled the spaces between the crystals with a mineral substance, organized in striated layers. We left atmospheric pockets within some of the outer layers for future use by the planet and her cell bodies.

We then created a set of additional body layers about the physical Earth body that decreased in density as they progressed outward. We charged these layers with different energy properties, including the primary chemical required by the soul bodies; oxygen in the outer layer. This became the atmosphere for the planet.

At the same time, we spun more complicated bodies for each of the souls that incarnated with the planet. We developed bodies also composed of thirteen layers of material and ethereal bodies for each soul. Now the cell bodies of the Earth also had physical and energetic bodies of

their own. The new patterns were set with thirteen layers of energetic and material patterns for Gaia and her new soul partners.

We were satisfied to work together to discover the challenges and successes of this new environment. All were content. For a long time.

Stage 6: The sixth period of time.

Eventually, the bodies of these soul beings evolved again. They began to need a substance beyond the pure energetic properties provided by the earth. It was time to add new life forms to the system. Again we used our access to that Tao/God creative force as we created plants and animals, and expanded the material environment. This was a long, well-considered process. All thirty-three souls had input and helped make determinations. But it was up to the Shin Maa, with Gaia's oversight, to complete the tasks and populate the planet with these new beings.

Stage 7: The seventh period of time.

After a long time, the cell-body beings of the Gaia soul system desired another, more challenging opportunity. We wanted to test and learn more from our host bodies. We wanted to explore the Gaia/Earth environment, yet we still had a strong and ready connection to our wisdom core, or soul. At that time, the cell body souls returned to the Shin Maa for counsel.

These early souls felt that they could learn more from each other and their environment if they could only set aside large segments of their soul wisdom connection. We all pondered the possibilities. The decision was made.

A set of energetic crystalline forces was implanted into each physical body. The crystalline forms, called Impedance Crystals, were designed and set in place to block the individual's natural connection with his/her soul, or natural wisdom. A final design for spiritual beings to be able to travel upon the planet's body with vulnerability and opportunity to learn was created.

Through the nature of dense crystalline/fluid physical bodies with the crystalline implants, we were now challenged to live, experience and grow in relative ignorance. Without the aid of a full wisdom connection, we would constantly test ourselves to discover our vulnerabilities and our strengths. Through our separation, we could learn and mature. It is an intensely powerful and challenging form. And it matches the original purpose of Gaia to be a school and a place to learn.

Stage 8: Moving beyond time.

The system was set. It had progressed through seven creation stages and was determined to be fully developed. We shifted to a process of evolution that would provide subtle changes within the soul bodies, and all systems of the Earth, but the overall system would remain stable. We were content and stayed in this stage for a long time. After all of our hard work, we took a rest and enjoyed the fruits of our labors.

Stage 9: The ever-present now

Eventually, with the system fully developed, and Gaia's body fully manifest, we realized it was time to enlarge the population. Souls from other dimensions, times and locations were invited to populate the new planet and its animal bodies. Procreation began, and more bodies were formed. More souls took up residency upon the Earth. Many souls came to share the planet with Gaia. The opportunities for learning and testing multiplied exponentially. Many bodies and souls continue to share this experience in their reincarnation cycle. Only the original thirteen, Gaia and the Shin Maa, are bound to stay in this planetary system. Others move about as needed for their own personal growth.

And beyond...

The structures along with the mental and emotional components of Gaia's cell bodies are still evolving. Sometimes they change dramatically, or are influenced by beings from other planet bodies. Sometimes it is part of Gaia's own evolutionary process that manifests such powerful change. Gaia supports us in this separation partnership by providing us space and energy to live our lives. We are still experiencing new stages of evolution and growth as a connected planetary system.

The shin Maa are still part of the system. We reincarnate and work on our own soul lessons, but we are still somewhat separated. We stay connected to our initial agreements and work as guardians and teachers for the other planetary soul bodies sharing the planet

And that is the story of how the planet known as Earth was born and evolved.

The End

Of The Beginning.

