

08.16. Nature of Gravity and Structure of Earth

Einstein's Reverse-Conclusion

At the end of his career, Einstein doubted what finally would remain of the relativistic sight and his theories. Only one point he was able to adjust by his speech at Leiden in 1922 with the statement 'space could have no physical properties without assumption of aether existence'. Unfortunately his protagonists did not realize this declaration up to now. Just as clear he stated 'that substance can not exist by ponderable particles' (thus not by countable, weightable and measurable parts). This was his most important achievement, again not recognized up to now. Imagine, Einstein got this finding earlier, he might have evolved the idea:

" ... This particle- and gapless aether thus is the ONE by which ALL exists, the coarse like the fine matter. The only difference is the curve-radius of inherent motions. The few coarse-swinging materia is embedded within all fine-swinging aether of all universe. The superiority of strong-bended motions combats the few regions of less-bended motions and thus presses atoms into shape of spheres. This general aether-pressure also affects agglomeration of atoms building celestial bodies. From the material accumulation towards space thus exists gradual difference of arcs-radius of aetheric motions. Radial towards surfaces of celestial bodies accordingly exists a gradual pressure, resulting the gravity effect.

At earth-surface this force affects an acceleration of $g = 9.81 \text{ m/s}^2$ for all material particles. Thus regardless of their masses, a light feather falls as fast as a heavy hammer. Opposite and compelling: thus gravity must also be independent from masses of earth and any celestial body. Forces of gravity exclusive are based on curve-differences of aether movements between earth-surface and the ambient aether. The structure of curve-gradients in addition depends on atmosphere, ionosphere and magnetic sphere. Gravity thus appears only within near environment around celestial bodies, thus e.g. only within 'aura' of earth. As stars, planets and moons show grave differences of structures of surfaces and ambient spheres, each celestial body has an individual gravity. The earth-gravity thus is only a local parameter and not-at-all an universal constant ... ".

As these findings were conclusive and Einstein was convincing, all media would have provided that perfectly natural definition of gravity since hundred years:

**Gravity is a force affecting radial onto celestial bodies.
This is result of transition from fine swinging Free Aether
to coarse motions between accumulations of atoms.
Extension from fine to coarse swinging
results a beating motion component.
As the strokes hit onto material particles, weight comes up.**

**Gravity appears only within near environment of celestial bodies.
Their density and material structure have decisive influence
and thus every celestial body has a specific gravity.
The strength of gravity depends on further factors,
so that force is never constant but varying on and on.**

Unfortunately the story of physics went other ways, e.g. instead of differing curved aether-motions the space-time got curved. Even the gravity is everyday occurrence, the real cause

and mechanism still are not known. Up to now one can not explain, how attraction as a remote effect could work (however next chapter will show, why e.g. the moon circles around the earth). Above this, gravity is assumed to be constant force universe-wide, resulting unsolved problems of astronomic hypotheses. At the following now the appearance of gravity is analyzed by view of existing aether, resulting new insights, totally controversial to common assumptions. Involved is also the 'mass of earth', again resulting surprising aspects concerning structure of earth.

No Attraction

A (supposed) obvious example of attraction the permanent-magnets seem to be (see picture 08.16.01 upside). However as shown at previous chapter 08.15. 'Normal and paranormal Appearances', unlike poles are pressed together - via general aether-pressure onto opposite surfaces (as assumed also by diverse other researches).

Based on general conviction, unlike charges would show attracting forces. However flashes roam around within clouds and not at all are racing straight down to the earth (like attraction would demand). Within an electronic tube the electrons are not pulled off cathode and are not attracted by anode (like also described at previous chapter).

Within gases and fluids the suction and pressure are important for motions. However again there will come up no flow, if only an area has relative few density. The suction does not 'suck-in' any particles but exclusively via pressure of neighboring areas some particles are pushed into space containing momentary less particles.

When stirring around within tea-cup, the coarse matter accumulates at centre - however nobody makes up conclusion, the outer particles are pulled inward. At any galaxy many stars are gathered at center - and astronomers busy calculate which gigantic masses must exist there for pulling and keeping stars of distant spiralarms at their tracks - however it never fits, even by assumption of 'black holes'.

Free Aether

Based on previous definition, the gravity appears only within transition-area from a celestial body outward to Free Aether. So at first the characteristics of Free Aether must be discussed once more. Whole universe exists by aether, which incessantly is moving. Only a small part of builds motion-pattern which are appearing like atoms respective is called 'materia' by common sense. These pattern are called 'Bounded Aether'. Opposite the major rest is called 'Free Aether', existing in 'pure' shape only far away from material assemblies.

At earlier chapters I had assumed, Free Aether should show an 'universal motion-pattern' with morphogenetic function. This is described at chapters 02.07 'Global Scaling' and following in extension, because that theory seemed cogent for me (even there is no clean definition for the underlying medium). Today I think, an 'emergence' respective a tendency for self-organization is founded other kind (see below). So Free Aether probably will simply move at 'chaotic spiral-cluster-tracks', based on following consideration.

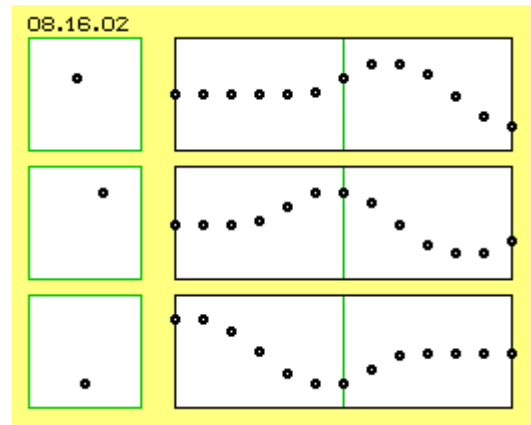


Radiation

Also far away from celestial bodies, the 'empty space' is full of motions, e.g. as electromagnetic radiations are racing steady into all directions - like this animation shows by slow-motion. The 'photons' are no particles but a motion-structure wandering through space. In principle it's shaped like a corkscrew of only one turn (respective like sketched by the logo of my books), 'screwing-ahead' through the aether.

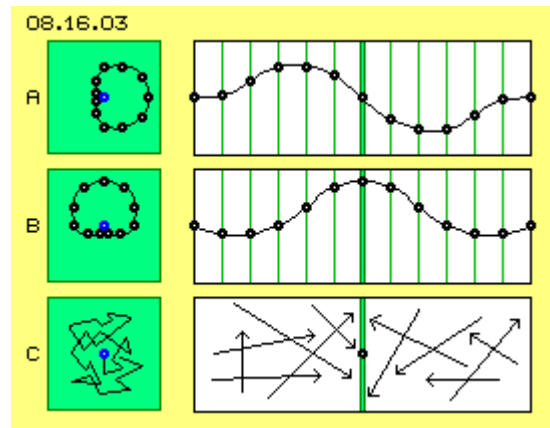
That radiation becomes generated by fast collision of atoms, where contrary motions strains the bending-tolerance of aether at its maximum. Just before connecting-lines must build a 'kink', a motion-loop is catapulted sideward, racing off by light-speed. One turn will do for relaxation of stress-situation.

At this animation (and following picture 08.16.03) right side is marked a section of Free Aether, through which that 'wave' is running. The black points mark neighboring aether-points and their motions are observed here. The green line at the middle marks a 'window' which once more is sketched left side by cross-sectional view. By side-view (right), each aether-point is only moving up and down. By cross-view (left), as the photon passes the window, the aether-point however is shifted off its 'resting position' at an outward bended spiral track and guided back again by an inward bended spiral.



This picture is rather schematic, because the up- and down-motion in addition demands balancing motions circling around, at right angles to direction of radiation (commonly called 'magnetic component'). Important here however is the fact, only the motion-structure is wandering forward within space (the 'electric component'), while the aether realiter keeps relative stationary within its 'motion-window'.

As the photon moves through that window, it's also important fact, the aether won't move at perfect circle track nor at 'nice' sinus-curves. Instead of, all times some 'stroke' exists, i.e. motions with increasing and decreasing speeds. One half of track is done by relative fast speed and the other by some slower speed. While one half of time a relative long distance is done and within the other half-time only a short way (just like resulting by any overlay of only two circle motions, here often discussed).



At picture 08.16.03 at A left side, cross-section through the middle window (dark green) is sketched and right side corresponding side-view. At B the same motion-process is shown once more, only the direction of view is shifted by 90 degree. At all neighboring windows (light green) analogue motion occur, only some time-shifted.

Wave-Mixture

Below at this picture at C, previous waves are marked simply by arrows. Through a window not only one radiation wanders, but 'countless' radiations of different frequencies, amplitudes and directions are moving same time. An observed aether-point thus does not move only by previous loop, but continuously is pushed to and fro. Multiple overlays result a stirring track,

like at C left side schematic is sketched (where realiter however all motions are curved with smooth transitions).

Each motion of an aether-point into one direction is redirected by second wave, becomes interrupted or pushed back. Each 'clear' wave thus is completely disfigured. So it's just remarkable, a certain radiation still can be registered anywhere anyhow.

Nevertheless any receiver is able to filter certain radio-program out of the 'aether motions mess'. Also our eyes well can register a certain 'color of light' out of huge number of electromagnetic waves - even these photons got age-old while wandering through the (aether-) space. Depending on focus of each tool it's possible to read information out off that generally jumbled aether-movements.

Cast of Shadow

Beyond mainstream-physics one agrees, the gravity never can be an attracting force. So it's clear, weight must come up by any pressure. However there are diverse aspects for explaining the gravity-pressure appearance.

For long (respective still) the idea of 'pressure-shadow' was preferred, where celestial bodies absorb or hinder radiations. So less radiation-pressure is affecting from that direction onto a neighboring celestial body. Based on these differences e.g. planets would be pressed into direction of sun.

Now for example the Mercury is moving at an extreme eccentric track. If Mercury wanders off sun, the shadow-sector becomes smaller, so practically from all sides exists likely pressure - and nevertheless at its outmost distance the planet should return towards sun? The 'deformations' of magnetic field of earth show clear, how strong the pressure of radiations are, which sun is sending off - instead offering shadow. Jupiter is a gigantic planet - however how minimum small is his 'sun-protection-shadow'? Above this the light is bended near sun and naturally all pressure waves become redirected around sun, so finally no real shadow-effect exists. By this view the hypotheses of radiation-shadow are rather doubtful.

Gravity-Waves

For explanation of gravity forces some kind of special 'gravity-waves' are preferred. Anywhere at universe all times a star is exploding and pictures show impressive, how materia is flying off into all directions. So huge pressure-waves should race through universe, also hitting onto earth all times from all directions.

However these hypotheses don't clear state, through which medium these pressure-waves could travel so long distances. Mostly the clarification of that prerequisite is ignored or it's even assumed, these forces could affect through absolute empty space. Many theories assume any elastic or granulated medium, because only by these conditions could come up dense pressure-fronts and following area less dense.

One should take in account what would happen with these multiple crossing pressure-waves by these conditions. The pressure-waves mutually cut not only at one level (like marked by arrows at previous picture at C), but from any direction of space. At all gases (thus within all media existing by particles) immediately occurs compensation of pressure resp. density. Also at any elastic medium (no matter which kind) inevitably come up losses by friction. The signal (resp. here every pressure-wave) would 'smear' and fade after short distance, e.g. because the pressure-fronts fall into an area neighboring aside with occasionally and momentary less density - and thus the pressure-energies fizzle out.

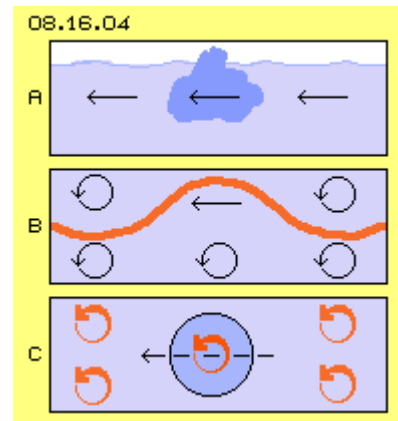
Again and again are discussed 'standing waves'. These exist really - however only when mirrored absolutely exact. Within three-dimensional open space, permanent standing waves

simply are not possible. Just these aspects are compelling facts, the aether must be one unique and gapless substance - because only by this basic condition, inspite of chaotic jumbled overlaying motions within, finally no single signal can got lost.

Iceberg within Whirlpool

Previous discussion about universe-wide pressure-waves and shadow of sun diverted somehow from original problem: why that apple did fall onto Newton's head. He detected the law of gravity acceleration towards earth, however didn't want to characterize this appearance as an attracting force. Unfortunately this motion process was transferred to assumption, the planets would fall around sun and 'naturally' the effecting force was assumed to be based on attraction. It would have made much more sense to consider, why icebergs between Greenland and Canada fall down or are pulled down south.

Icebergs are pure passive, they simply are drifting within flow of sea (see picture 08.16.04 at A, light blue the sea, dark blue the iceberg). The sea like an iceberg consist by H₂O, where within liquid water only few areas show an other structure and thus appear like 'solid' materia of ice. Just analogue is situation within sun system: anywhere exists nothing else than aether, only few areas show motions of special ordered structure, appearing as atoms and somewhere building large assemblies in shape of celestial bodies. Within huge whirlpool of ecliptic, the planets are drifting around sun - and need as less driving or pulling forces as previous icebergs at their southward travel.



Drive by Strokes

However there is a grave difference at this comparison: aether is stationary in principle and there are no real aether-flows. The aether is only swinging at more or less ordered tracks. Free Aether moves chaotic at rather short curved sections. At this picture at B the Free Aether is marked light blue and its (as a whole) neutral motions are marked by circles with arrows. At previous example of radiation, the aether is temporary impressed by spiral motion-structure of photon, while that wave (red) is racing through the stationary aether.

Also the whirlpool of ecliptic exists of Free Aether, however the motions occur by changed rolls. At C the dark blue circle represents an atom, which is only swinging within its area. Towards outside the atom is neutral and hangs free hovering within space (analogue to passive iceberg). The appearance of a 'flow' only comes up, because here the aether is not neutral but shows motion-with-stroke, here represented by circles with thick red arrow.

That beating is directed into turning sense of ecliptic, at any place the aether shows that motion and thus onto all particles that additional motion-component is impressed. That beat is running far and fast forward while one half-time and slow back within the other half. By every beat the motion-structure of every atom is shifted little bit forward (see below respective explained comprehensive by chapter 08.08. 'Tracks-with-Stroke' and following).

If previous sea-flow is compared with a conveyor-belt, the whirlpool of ecliptic could be compared with a vibrating belt. The planets are permanently shoved forward, all times at circle track, where all aether in principle stays stationary, only the structures of material motion-pattern are wandering through space.

Thus the planets rotate around sun without demanding supposed gravity-forces. Total sun-system rotates around center of galaxy, where again it's only drifting within a border-vortex of milkyway. All aether still is keeping its place and all atoms exclusively are pushed forward by the special 'aether-strokes' of an area and above this, all diverse strokes are overlaying.

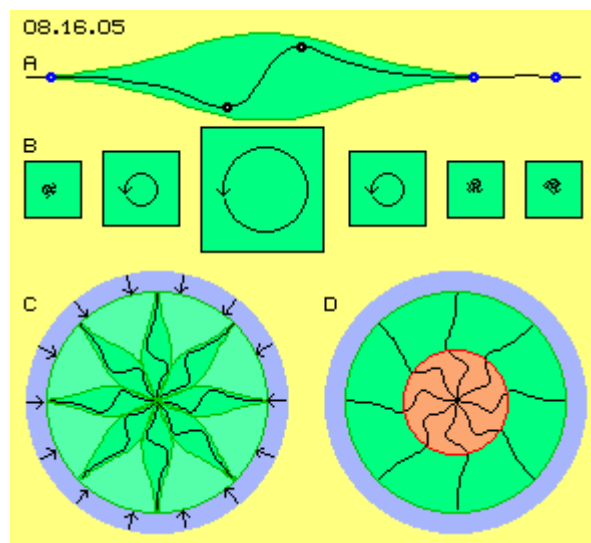
Also the galaxy as a whole needs no attracting force. At galactic center thus must not exist huge masses (or black holes), like demanded by calculations based on 'universal-gravity-constant'. However there must exist a local affecting gravity-force - so apples fall down from trees.

Bounded Aether

An apple exists by atoms and these are 'Bound Aether'. Opposite to Free Aether with its narrow chaotic movements, these are areas with ordered and wider movements. All motions are running with likely absolute speed (at least by light-speed), however at tracks of more tight corners or at wider curves. At picture 08.16.05 upside at A is sketched such an 'inflated' area. Left and right side are aether-points (blue) of Free Aether. Within the green area for example are drawn two aether-points (black) and the curved connecting-line marks neighboring points.

At B again 'windows' (green) are drawn as cross-sectional views, within which the corresponding movements schematic are sketched. Left and right side, the aether moves at these narrow 'spiral-cluster-tracks'. Quite right side is sketched, the tracks of neighboring aether-points also of the Free Aether with its chaotic motions may show only gradual differences.

Towards the middle the motions become more calm at wider stretched tracks, here represented by circles with arrows. Or by opposite view: each wide swinging motion demands balancing areas aside, where motion-radius becomes gradually reduced, down to the narrow swinging motions of Free Aether. If momentary the Free Aether is moving into same direction as the Bounded, that swinging becomes enforced. While the wide swinging of Bounded Aether goes on, the Free Aether already moves in contrary direction. Resulting is the general aether-pressure onto all coarse swinging areas.



That 'double-crank' sketched at A is motion-pattern e.g. of an electron. Parallel aside each other, many similar swinging motions can run, e.g. like the motion-pattern of electric charge layer or in shape of 'aetheric walls' (as described in details by previous chapters). Multiple of such double-cranks can also be arranged radial to each other, resulting motion-pattern of atoms, like described in details at chapter 08.13. 'Aether-Model of Atoms'.

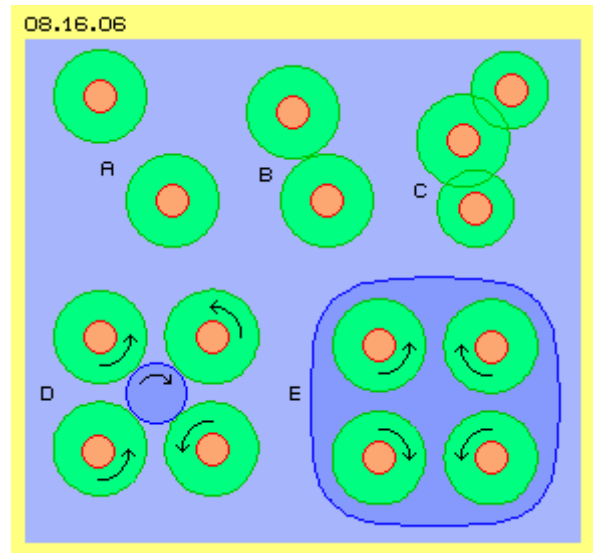
At C schematic is drawn a cross-sectional view through an atom, where e.g. eight of previous double-cranks (dark green) are radial arranged at this level. There also are drawn black curves of neighboring aether-points. The ambient Free Aether (blue) affects pressure all around (see radial arrows) onto that wide-swinging unit. Like springs the connecting-lines are compressed towards center. At center all connecting-lines meet, so that thrust results enlarged swinging amplitudes. Within that sphere however the space is limited and in addition the connecting-lines can be bended only up to a maximum. So a balance comes up at a volume which is nearly of same size for all atoms. In addition, these conditions allow stabile units only for these few, just about hundred different chemical elements.

At D this atom once more is drawn with these connecting-lines. They meet at center where all motions must run exactly synchronous at narrow space. Even everywhere is nothing else than the same aether, that core (red) appears 'hard' - without any elementary- or sub-elementary-particles existing there. There is only that core-area (red) with its 'maximum

tension' between all neighboring aether-points and towards outside all around an 'aura' (green) of balancing motions up to Free Aether (blue).

Free or Compound

At picture 08.16.06 diverse atoms (with red core and green aura) are 'swimming' within Free Aether (light blue). These 'things' can be one-atomic (like at A) or two likely atoms can 'clue' at their surfaces, e.g. building H₂ (at B). This appearance is relative frequent because atoms here really offer mutual pressure-shadow. Only the idle gases are so 'round' and thus showing no surface-parts for mutual fitting tightly.



The pressure-shadow effect is measurable also at larger assemblies of atoms, e.g. between steel-spheres by sensible torsion-scales or between plane sheets known as 'Casimir-Force'. However this is still no 'attraction-force' but only the result of general aether-pressure.

Normally the atoms are not perfect symmetric but the aura-surfaces build hills and valleys - and if these fit well, atoms are pressed together for building molecules, for example H₂O (like marked at C). The more perfectly fitting, the more stable is that compound. So one can imagine how strong that general aether-pressure is indeed: at any atom corresponding to 'strong nuclear power' and at molecules corresponding to the 'bound-forces'.

Atoms and molecules can build further assemblies of different stability, where the movements of aether between the involved particles is much important. At D for example, four atoms of likely motion-shape are sketched, here simplistic represented by likely swinging (left-turning) at circled tracks. At the center comes up an opposite motion (right-turning), practically like gear-wheels would run accordingly.

However the movements between the atoms here are contrary (see arrows at both atoms below). Such divergent motions demand distances between, which is given when the atoms e.g. are arranged at different levels. Then the aether-motion at the middle is right-turning like a spiral staircase - and that's the 'magnetic flow' within iron or permanent magnets. This twist-motion is so stabile and strong to reach out of north-pole into the Free-Aether-space and outside of south-pole the Free Aether already is 'drawn' into that motion-pattern (right-turning by view onto south-pole), just because neighboring aether-points must do similar motions, differing only gradually.

Previous molecules and also every loose compound build a common aura. At that surface now is affecting the general aether-pressure, keeping the assembly together. Especially hard that compound is at crystals, where the inside aether between particles can build a fitting motion-pattern.

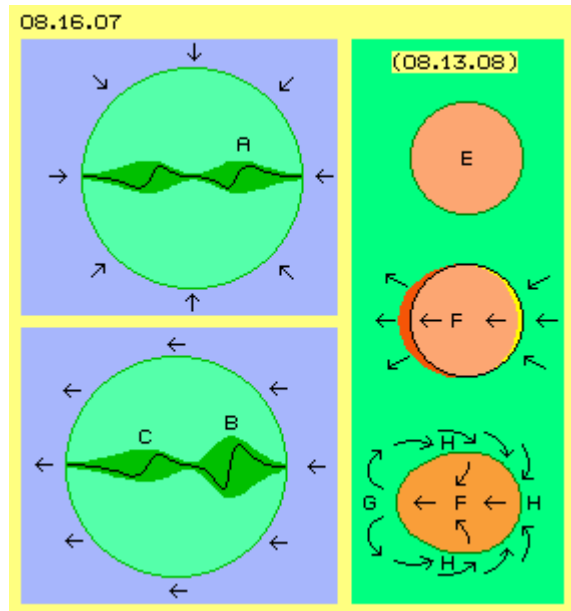
At this picture at E schematic again four atoms are drawn and their similar surface-structures again simplistic are represented by arrows. As an example they are arranged alternately (their 'poles' shifted by 180 degree), so appearing to turn left- and right-turning aside each other. Inside and also outside of that unit, now symmetric motions come up and all aether-movements support each other at whole area (marked dark blue). This sketch shows only the rough principle of a common aura and its adequate ordered motions within. Really existing are manifold arrangements, e.g. resulting the special properties of crystals.

Hanging stationary or drifting through Space

The vortex-systems of material appearances can hover stationary within space or, after a mechanical push, can wander forward through space. The terms of mass and weight, inertia of resting and moving masses respective of kinetic energy are defined at chapter 08.13. with the description of atoms, e.g. there by picture 08.13.08 (a section is shown once more here at picture 08.16.07 right side). Now here once more is explained, how 'stroke-component' of Free Aether movements are driving the atoms forward within space.

Left side of this picture an atom A (light green) hovers free within ambient aether (light blue). This motion-structure is kept together by general aether pressure (see arrows radial around). Only one connecting line through the atom is drawn here in shape of a 'double-crank'. The central area builds the core and the outer balancing areas build the aura (like discussed by previous picture 08.16.05).

The whole sun-system wanders around galactic center with more than 200 km each second and the planets turn around sun by some kilometer each second. Nevertheless all aether still is stationary in principle. The Free Aether is only 'trembling' within narrow tracks. That motion is a result of overlaying radiations, i.e. will also work somehow by light-speed (and in comparison, the slow speeds of material movements are nearby to neglect).



Within the galaxy and within sun-system (and also at environment of celestial bodies) the swinging of Free Aether is not total symmetric and neutral, but shows a beating component (which comes up inevitably e.g. if only two circled motions overlay). At sun-system that's a wide reaching appearance in turning sense of ecliptic, like e.g. marked by arrows at this picture below left side.

All atoms are affected intermediately, however steady at one side (right) by increased aether-pressure and at the other side (left) by weaker aether-pressure. The 'luff-side' aura (at B) thus is compressed little bit, while the leeward balancing area (left, at C) is relieved. The connecting line becomes deformed like a steel-spring (here extremely overdrawn) and thus the pressure from right side is forwarded through the atom-core towards the front left side.

Only the kind of Swinging is relocated

We are totally fixed at material particles: spontaneous we interpret that blue area as water and that green e.g. as driftwood. Really however, there is nothing else than aether and the unique difference between blue and green areas is the kind of swinging motions: outside chaotic at narrow tracks, inside better ordered and at wider tracks. At the aura, the radius at first is increasing, further inward however decreasing because all motions meet within core at narrow space, where all processes must work synchronous.

The Free Aether 'struggles' against the wide swinging, however can compress the atom only to a certain volume. Just in the core the room for motions is limited. Thus from there affects a counter-pressure, so 'springs' are tensioned everywhere likely. These springs here are drawn in shape of curved connecting lines, representing the real size of swinging motions at each location.

The increased pressure of Free Aether does not push any 'materia' forward within space, not even the aether is relocated forward - only the size of swinging, only the structure of that motion-pattern is shifted little bit aside: here the aether left side of atom becomes swinging at increasing wider tracks and the aether right side of the atom becomes moving at tracks of decreasing width, finally back to size of Free Aether motions.

Actually: all atoms of earth, together with sun, planets and whole galaxy, are racing through space. Their motion-pattern however are shifted aside only thousand times slower than aether originally is moving. The earth rotates around sun once more fifty times slower and all material movements on earth still are slower by millions. That shifting of material vortex-systems thus is minimum in relation to the chaotic 'trembling' of ambient aether and also as the ordered swinging motions of atoms by itself.

The 'strokes' of asymmetric motions at area of Free Aether thus makes the materia drifting through space by minuscule slow speed - and once more: there are no particles flying around, but only the kind of swinging (within nearby stationary and only somehow trembling aether) becomes shifted forward gradually. So this is the kind of 'drive' for motions of planets inclusive their sun - without any 'mass-inherent attracting-forces'. The drive for falling apples towards earth is also not based on any attraction, however working just analogue to previous discussed push-effect.

Pure and stormy Aether

Bounded Aether represents ordered wide swinging pattern, e.g. appearing as materia by these some hundred variations of chemical elements. From single atoms across molecules and loose compounds, materia can build gigantic assemblies like planets, stars and galaxies.

All materia exists by aether and naturally also the space between these 'particles'. That Free Aether between is swinging on tracks more narrow as a result of multiple overlaying motions. These 'spiral-cluster-tracks' are rather 'disorderly' motions, however not anywhere of same 'chaotic' pattern. At picture 08.16.08 some areas are listed for differing prevailing structures of Free Aether.

Far off, far away from galaxies might exist Free Aether of 'pure' shape, because dust-particles within infinitive width had filtered off most radiations. Within that inter-galactic area (light red) thus might exist relative 'soft' aether.

Totally different the aether behaves e.g. within milkyway. Within the area of galaxy (middle red) at center are gathered many stars, which mutually 'bombard' each other by radiations. Further outside exist areas more calm, interrupted by turbulent areas of spiralarms. The swinging of Free Aether within the galaxy thus differs locally as a result of overlaying radiations running through the local area. Everywhere however in addition exists that asymmetric beating in turning sense of galaxy, again not uniform but e.g. curled up at border-vortices (within one our sun-system is spiral whirling forward).

We are positioned near sun and we know their raving surface. From that 'witches kitchen' multiple radiations and even material particles are racing into solar environment (dark red). The 'solar-wind' e.g. is visible by redirection of some parts of comet-tails. At previous chapter was described how these turbulences order themselves to gigantic pipes, e.g. towards the planets. Graph 08.15.03 of previous chapter e.g. shows how major part of that storm is turned round the earth.

08.16.08

AETHER - AREAS	
	GALAXIES
INTER-GALACTIC	
	MILKYWAY
GALACTIC	
	SUN
SOLAR	
	MAGNETO-/IONOSPHERE
SPHERICAL	
	ATMOSPHERE
ATMO-SPHERICAL	
	EARTHCRUST
HETEROGENE	
	EARTHMANTE
CRYSTALLIC	
	EARTHCORE
PLASMATICAL	
	EARTHCENTRE

Protected Sphere

Within gapless coherent aether do not exist borders and all forces theoretic are affecting infinitive far. The earth-magnetism e.g. is a rather weak 'field' of special aether-movements (details see next chapter), however reaches far out into space. At previous chapter was described, the aether even can build flat motion-pattern and thus building 'aetheric walls'. These (also multi-layer-) membranes can build a zone respective an 'inner world', protected against outer influences.

Such an aetheric membrane is located around the earth in shape of the magneto-sphere. The earth-magnet-field outside is compressed by solar-wind to a 'massive front' called magneto-pause. The earth generates this magnetic field, i.e. their aura reaches at least out to that protection shield. At that membrane, hard radiation is absorbed, reflected or redirected. Also further inside, the iono-sphere has similar filter-function.

The aether of these layers of 'magnetic vortices' and / or 'electric space-charges' naturally shows vehement motions. However inside of these membranes, the aether is free of hard radiations and thus exists a sphere (light green) of aether much more 'calm'. Just inside of that 'earthly outside border' the aether thus is nearby as 'clean' as far outside off galaxies. Finally by that aetheric cover the earth becomes a real 'space-ship' with an independent inner-world - and as well known, life at this planet came up only based at that protecting sphere.

Increasing coarse Aether

From that shield inward, the structure of Free Aether depends on other factors. Normally all Free Aether dominates the (few) local areas of Bounded Aether: the Free Aether compresses the atoms in shape of balls, the general aether-pressure pushes several atoms to compounds less or more dense, its asymmetric strokes drives material motion-pattern through space. Opposite however is also valid, assemblies of material vortex-systems have an influence onto ambient aether.

Within the atmosphere exists increasing number of gas-particles and density of air increases towards earth. The particles keep off each other and are restless flying to and fro within space, interrupted by multiple collisions. Each atom has an aura reaching far out and within these balancing areas the motions become reduced to narrow swinging of surrounding Free Aether. The more narrow however the space between particles becomes, the less these motions are completely reduced. Within that atmospheric area (middle green) thus the Free Aether between atoms will swing also at some wider tracks, i.e. gradually takes a motion-structure more coarse. As all motions within gapless aether are coherent, this broad swinging within atmosphere gradually is transferred also towards outside.

In addition, down towards earth the motions become even more coarse: at earth-surface the assemblies of materia become decisive more dense, now there are atoms of diverse chemical elements, their compounds show much more variations. There are mountains and oceans, deserts and forests, heat and cold, storms - just the world dominated by 'coarse matter'. So also the Free Aether will take more and more the structure analogue to coarse matter, increasingly towards earth surface. So at a whole, Free Aether from the outer 'spherical' area towards earth becomes increasingly more coarse motion-structure respective is moving on gradually wider tracks.

The earth-crust is a mixture of diverse rocks, existing by materia of differing density and grain. The common aura around all molecules or particles resp. whole boulders of rock is rather different and thus also Free Aether within the area of rocks will be rather heterogene (at previous graph marked dark-green).

Opposite to Free Aether at and above earth surface, now the structure of Free Aether differs by one decisive aspect: all radiations soon are filtered off, the narrow swinging based on multiple overlaying radiations no longer exists down at the earth-crust. The structure of aether between the rock-particles thus increasingly can adapt to the material motion-pattern. The structure of earth thus is not only determined by 'materia' but the Free Aether between these atoms and molecules has remarkable consequences.

Increasing Adjustment and Transformation

Now again quite new criteria come up for motion-shape of Free Aether. Already at the earth-crust or finally within regions called earth-mantle, the material changes increasingly into crystal forms. Like sketched at picture 08.16.06 at E the atoms resp. molecules build so well ordered structures, the aether between (and within common aura) can build likely well ordered motion-pattern. At previous graph this aether-area is marked as 'crystalic' (light blue).

At previous chapter was shown by example of a druse, tendency of 'emergence' respective for self-organization comes up: the crystals build aether-structures inside and around, which by itself favors the growing of additional crystal-structures - even corresponding chemical elements no longer are available within the druse. The aether there is transferred 'automatically' into such shape of motions, fitting just to the demanded pattern - and thus for example building these SiO₂-formations.

It might seem unbelievable for many readers, however transformation of chemical elements is a fact. For example there are deposits of coal just inside of melted rocks, where never could have existed any organic material (and thus it's discussed, how carbon comes up by pure an-organic processes). For example it's common understanding, heavy atoms could be build only by explosion of stars (however then these dusty atoms should fly all around space). Chemical transformation does not need high pressures or heat, but often is demanded a suitable catalyst. Mostly that substance is not involved direct into chemical reactions but only its presence is necessary. The catalyst-aura builds an aether-environment, within the chemical elements can perform 'impossible' reactions.

So it's absolutely possible, also heavy chemical elements are build within earth. Depending on locally dominant structure of aether within atoms and / or their environment, diverse elements come up down there. Undoubted e.g. is the fact, gases evaporate off rocks at most deep layers and hydrogen is 'generate' by volumes that could never had existed within the original rocks. In combination with oxygen results new water, while 'old' surface-water never could sink so deep into rocks based on existing pressures down there. At the other hand come up hydrocarbons, where never according masses of C could be available.

Plasma at Earth-Core

By common understanding the core of earth is build by iron red-hot or even at physical state of plasma (like core of stars should exist by helium-plasma based on enormous temperature and extreme pressure). By view of gapless aether however, at the core of celestial bodies can exist neither high pressures nor great heat - however well can exist a plasma with smooth transition between Free Aether and atoms.

Already at earth-crust all radiations are filtered off and within area of crystalic formations, the Free Aether increasingly corresponds with the motion pattern of atoms there. This process of adaptation goes on further inward and transits into an area of 'plasmatical' aether (at previous picture marked dark-blue). The borders between motion-pattern of atoms and ambient aether become 'blurred and merging', i.e. resulting motions like within a plasma as a throughout 'wobbling' mass.

The more the Free Aether corresponds to motion of the aura of an atom, the less pressure is affected onto the atom. This reminds on experiments to 'Bose-Einstein-Condensate' (see also chapter 04.02. 'Space-Time-Quant-Zero-Point-Energy'): the motions of atoms are calmed down by extreme deep temperatures and thus the outer influences are reduced. Resulting are plasma-forms of wide volumes, thousand or million times beyond original volume of involved atoms. Via laser one can 'stir around that soup' - so depending on ambient conditions also new elements could be build (like e.g. also approved by experiments of 'cold-fusion').

In summary one can state: Free Aether outside of earthly sphere is an area full hectic and steady changing motion directions based on numberless overlaying radiations. The hard radiations are filtered by protection-shield of magneto- and iono-spheres. So inside of that membrane remains Free Aether much more 'calm'. Towards earth-surface within the atmosphere motions gradually become similar to coarser motion-pattern of materia. Further inside the earth-crust the adaptation goes on, so the Free Aether and material aether-vortices increasingly correspond. Finally at earth-core comes up a relative indifferent plasma - without extreme pressure and heat.

Pressure and Temperature of Earth

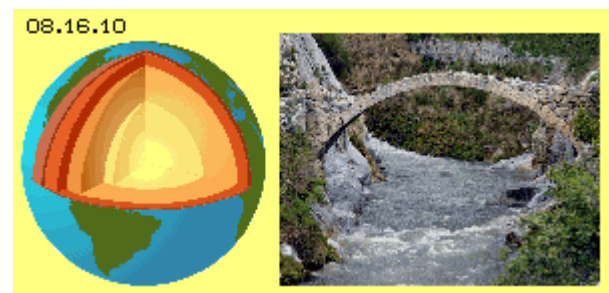
However, it must be hot within earth otherwise no volcano or melted stones could exist, like basalt-pillars, quartz-bands or granite of various shape show most impressive (see previous picture 08.16.09).



The following picture 08.16.10 left side shows rough cross-section through layers of earth. Earth-crust is assumed to reach down about 35 km. However one was able to drill holes only some 14 km deep until pressure and temperatures of 300 degree stopped further attempts. The upper earth-mantle is assumed about 400 km. To that depth reaches the lithosphere, thus the area of 'normal' rocks. At least locally there must exist temperature of some 1500 degree (the melting point of quartz), so magma and melted rocks can flow up and show still 700 to 1200 degree at earth-surface (however the melting point of rocks is most different depending on pressure and mixture).

At this depth is a relative sharp bordered transition-zone, where structure of rocks changes decisively (upside mentioned as 'crystalic' area of aether). The lower part of earth-mantle reaches 2900 km deep and temperature there is suggested by 2000 degree. At upper core with temperatures of 2900 degree all materia would be liquid, down to 5100 km. The inner core is assumed up to 5000 degree and pressures of some millions bar.

As mentioned, exact knowledge exists only for depth of maximum 14 km. Beyond that, one can make up conclusions via speed and directions of pressure-waves of earthquakes. Beyond that however, all assumptions are based on suggestion of a universe-wide valid gravity-constant, where attraction-forces and centrifugal-forces must match, based on radius and rotation-speeds,



finally via volumes also the density of celestial bodies is calculated - where to e.g. a heavy iron-nickel-core at center of earth is 'necessary' - as pure fictive suggestion (and analogue for all other celestial bodies).

Indeed it's absolutely unsettled how these temperatures e.g. for melting rocks can come up. No matter one assumes common understanding of inherent attracting-forces or if one assumes an outside affecting pressure-force: finally both are working like static forces. These forces result pressure. However pressure results no increasing temperatures. Previous heavy hammer and light feather are accelerated likely when falling free. Finally at earth-surface (resp. a fix support) they show different weights based on different density and mass (where 'mass' realiter means the 'bulkiness' of their atom vortex-pattern). At a beam-scale both are weighting static - and continued working gravity not at all is changing their temperatures.

Heat is an expression of speed of molecular motion. If gas within a cylinder is compressed by a fast moving piston, the kinetic energy of piston affects acceleration of gas-particles, i.e. these particles move faster within space and thus the gas becomes hot. If however the gas-volume is reduced slowly, the pressure well increases correspondingly, however the temperature of the gas keeps constant (isotherm). Analogue the motion-speed of particles of liquids and solid bodies is not increased if they are affected only by strong static pressure. An answer for that problem is not to find via gravity-effects or resulting weight of masses, but e.g. via conclusions based on static of that old stone-bridge at picture 08.16.10 right side.

Loose material Accumulation

At following picture 08.16.11 some 'stations' during creation of earth are sketched (naturally not true to scale). Celestial bodies come up by local 'dusty clouds' (A, grey) which (based on common understanding) gather by gravity attraction (arrow G). More realistic will be, the dust-particles are mutually shadowing, so they are shifted together by radiation-pressure (arrow S). Universe-wide also the general aether-pressure affects like thrust onto material vortex-systems (arrow U). This force keeps atoms together in shape of spheres (so is corresponding to 'strong nuclear power'). Where motion-structures of atom-surfaces fit, the atoms also become bound to molecules (so the force is corresponding to power of chemical bonds). Above this many material accumulations are looser, e.g. like sand-corns are compressed to brittle sandstone (somehow like force of cohesion).

The accumulation of gas and dust of a celestial body grows, however the particles must not become compressed more narrow to each other. When the radius of a sphere becomes longer, the relation between volume and surface increases, i.e. opposite: the wider the volume, the less pressure-parts from outside are affecting onto each particle. Around the aura of each atom respective molecule within that sphere, still exists Free Aether keeping the particle distant. Also while a celestial body is growing, (at first) it still remains a loose accumulation of material particles (e.g. the huge gas-planets and -stars).

Radiation-Protection and Re-Ordering

The radiation of all directions thus is shifting materia together to loose accumulations of celestial bodies, however the radiation as a whole keeps neutral. For example the moon takes the heat of sun at the sunny side and at the dark side this energy is completely radiated back into space (and planets radiate more energy than they accept, see below). The intermediate absorption and final reflection of all radiations however has decisive importance for material structure of celestial bodies.

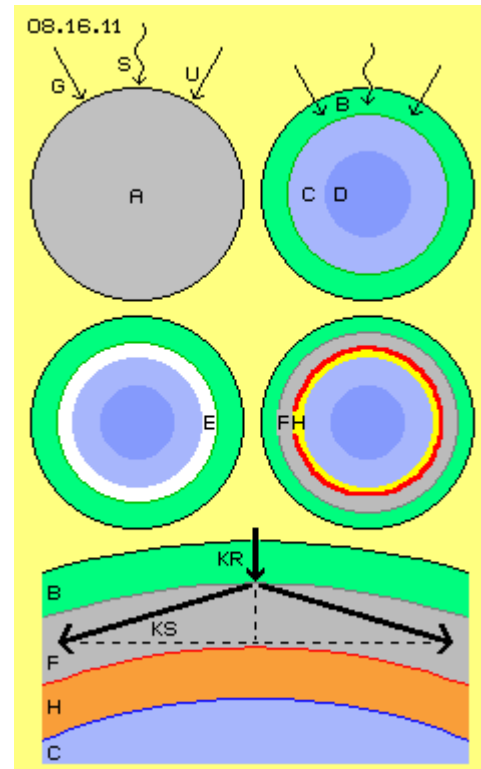
The outer layers filter radiation out off Free Aether respective the outside influences won't affect deep into the celestial body (see arrows at B). Within earth-crust the aether between particles increasingly less is bothered by multiple overlaying radiation, so loses its 'nervous trembling' with its short and narrow tracks. Within that 'heterogene area' the Free Aether gradually adapts the wide-range ordered swinging of atoms.

Further down the aether become even more 'calm' and transits into its 'crystallic' motion-pattern (C, light blue). There, the crystal-atoms build well ordered common aura. They mutually arrange to structures where also the aether between the atoms get in adequate harmonious swinging state. Again further inward at 'plasmatic' area (D, dark blue) the motion-pattern of atoms and their ambient aether becomes smoothly transient. The aether-motions there even can re-order via 'calm-fusion' to different chemical elements (by a calm process, like at 'cold-fusion' without extreme temperature and / or pressure).

Density- and Pressure-Differences

As a consequence of higher order of material particles within that 'crystallic aether-area' results higher density. The rock-mixture of lithosphere (down to depth of 400 km) shows a 'phase-transit' (sciences can't explain up to now) within the transient-zone (down to about 600 km).

Previous 'loose accumulation of dust' thus demands less space - not because materia is compressed but only because the aether-motions there are cleaned up from hectic radiation-movements. The Free Aether is less trembling between the atoms, so the particles become positioned by shorter distances. Together with synchronous swinging aether all around, units more compact come up.



In crystallic shape (light blue) the materia needs less space than at the heterogene zone of earth-crust respective the upper layer of mantle (green). Resulting is practically an 'empty space' (schematic marked by white ring E). Naturally there still exists aether, however the material vortex-complexes are positioned more narrow to each other. Into that vortex-free space thus now could move the outer layers, the whole celestial body could collapse to smaller size.

This process corresponds to situation when scaffolding for construction of previous beautiful stonebridge is removed. All stones will shifting some down, however hindering each other. Finally that process results stability of that building. As a 'side-effect' result forces sideward directed and enormous pressure between these stones. Each mass weighting on the bridge no longer is taken by vertical counter-pressure, but that weight results many times stronger forces of sideward pressures within that vault.

Analogue now is situation within earth (see section below at the picture): the stone layers (B, green) moving down build a huge vault (F, grey) above the 'relative void' (H, here marked red), which came up by the high density of crystal rocks (C, light blue) below. That dome practically builds a blocking layer for radial inward affecting forces (arrow KR), resulting enormous pressures aside (arrow KS). The more flat the copula is, the stronger these sideward pressures within that layer are.

Many researchers assume a (multi-) layer structure of celestial bodies, here by view of aether results just the necessity of such an 'earth-vault'. In reality, that blocking dome-layer naturally will be not be shaped as a geometric exact sphere, but builds local faces of differing shape, inclination and thickness, broken in diverse plates with fractures between.

Static Pressure and Heat

All masses of high towers weight on their foundations - however the materials at top and bottom show likely temperature. Analogue situation is given at earth: the pressure onto the vault is based on dynamic of arriving radiations and the general aether-pressure all around. However it's pure static pressure weighting and stabilizing the vault. The high temperatures up to melting point of rocks below of that 'stone-bridge' results via other processes, e.g. analogue to evaporation of water.

At surface of water the aether build a common aura respective a membrane called surface-tension (commonly again explained by any suggested attraction). Even the water-molecules build compounds, all particles still are steady trembling. They collide and exchange direction and speed of their motions.

However not only two particles meet, but occasionally also three or more same time (what I call multiple-collision). If there commonly the motion energies are transferred to one particle, that particle can be catapulted off water-surface. These particles fly with 'over-size' speed and thus the water-steam shows high temperature, while the energy-spending particles remain within water with relative few motion-energy (resulting the evaporation-coldness).

Inspite of enormous pressure within that blocking-layer, also the rock-particles are trembling. If at 'below border' occur previous multiple-collisions, the high-speed particles are catapulted into the 'free space' below. These particles now are missing within rocks for further collisions, i.e. also at original location now comes up an area of relative emptiness. Based on existing high pressure, neighboring particles are shot into that gap. So within the original 'calm' rocks comes up macroscopic motion, i.e. the original pure static pressure is partial transferred into kinetic energy, i.e. resulting heat within that layer of rocks.

Heat wanders into direction of cold all times. Because inward exists everywhere likely - relative moderate - temperatur, the heat moves upward within the rocks (at 14 km depth e.g. measured these 300 degree). That's why ground at earth-surface is warm and that's why the earth radiates more heat than accepting from sun.

Even that's fact, it 'smells' like perpetuum mobile. However, besides the incoming radiation also the general aether-pressure represents steady energy-input. Essentially however that net-energy-export is based on lever-arm effect of the vault: the given outside-pressure becomes multiplied in shape of sideward-pressures, representing practically inexhaustible forces.

Gases, Heat and Bubbles

As particles are blast-off the rock, a gap remains into which neighbor-particles are shot - from all sides same time. This process is identical to 'luminescence' within water based on strong pressure-changes. Within the rock however the tension can not run off via luminescent radiation, but the energy of discharging pressure-tension keeps bound within that 'bubble'.

At this local conditions, a molecule well can split, e.g. oxygen is set free (the most frequent element of earth, by majority bound within rocks). By strong deformation of an atom well could be squeezed off a 'vortex-eye' (see chapter aether-model of atoms). These are asymmetric 'double-cranks' (like sketched at previous picture 08.16.07 left side), which the ambient aether immediately compliments with an adequate aura - so a new hydrogen-atom is generated. H and O can combine to H₂O. At any case will come up H₂-molecules. By these extreme conditions, these double-cranks can hit crosswise so hard, resulting a new carbon-atom. By sure there are build compounds of hydrocarbon or carbohydronates. The presence of these elements and molecules lowers the melting point of rock-mixtures by some hundred degree.

Information, Resonance and Emergence

For many readers it might seem impossible, new chemical elements could be build 'spontaneous', however down there exist special conditions. Many people use the abstract term of 'information' quite easy, however here the information becomes real process: by extreme circumstances a C-atom could be generated by pure chance. Motion-structure of that atom is the carrier of information 'here is a C'. However also the ambient aether shows analogue motions and represents information 'here is space of / for C'. If now a shred motion-part is squeezes out off rocks, it is adapted and completed to vortex-structure according to that 'negative-model' of C-atom.

For example it's a fact, one can impress any material by information 'oxygen' and if that sample is put into a 'dead' lake, some times later that water really will show an increased rate of real oxygen. This remembers at 'potention-process' of homeopathy or at growth of crystals within druses (see also previous chapter). There is a clear tendency for self-organization within nature - and that 'emergence' is based on real motion-pattern of real aether between real aether-vortices, what one can - if one wants to - call a real appearance of real information.

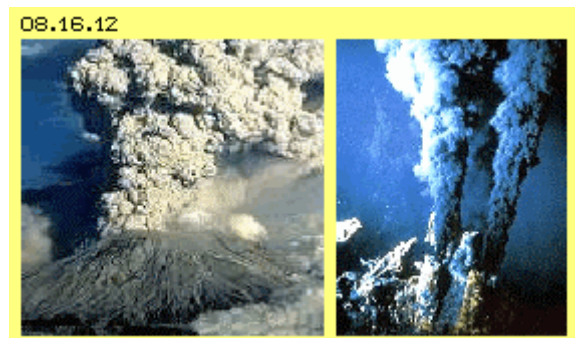
For explanation of phenomena often is also used the term of 'resonance', most by very abstract meaning. Real resonance however needs a real medium - and just the gapless aether is predestinated (because anyway motions must run more or less synchronous within). At and above of earth-surface the aether is filled up with natural radiations and also by artificial 'smog of technical progress'. In comparison with that mess down at lithosphere exists 'total silence'.

If down there occasionally previous C-atom was generated, its swinging pervades and dominates the ambient aether. As soon as any start of similar swinging comes up, the motions will come in resonance - stronger than ever possible up here within 'noise-stressed' aether. So by that view it's absolutely realistic, down there are generated even huge masses of chemical elements, especially the 'pretty and clear' motion-pattern of H, C and O (see again previous chapter of 'aether-model of atoms').

As mentioned upside, three H₂ could crash so hard to 'wedge tight' as a C-atom. However 'rough forces' are not necessary all times: if the aether-environment suits, the vortices arrange to new atoms or molecules by a soft process. Within appropriate surroundings occurs 'calm-fusion', as upside I called that kind of metamorphosis. These are results of a (real) aether-background which commonly are attributed to (abstract) information, resonance or emergence. Down there these changes practically occur within 'pure culture', however analogue or in the figurative sense also at many other subjects - just corresponding to universal importance of that aether.

Valve, Melting and Collapse

So it 'crackles' within the dome of that transient zone, 400 to 600 km below the earth-surface, however there won't exist a continuous border-layer. These processes however build chambers more or less narrow, at different locations, with fast flowing particles, thus gas-bubbles of great heat. At their borders at least partial the rocks will melt or build a viscous substance. Within these glowing chambers all molecules move very fast, thus intense heat and high pressure exist, which naturally urges outward.



The result is known and it's impressive when a volcano throws out glowing rocks and the lava-flows glide downhill. Less known however is, much more materia is expelled in shape of methane, other gases and water-steam (see picture 08.16.12 left side). These huge masses can not derive from earth-surface, but must have been generated down there, so previous mentioned process for coming up of chemical elements and compounds is really probable.

When a volcano erupts, gases flow through narrow gaps and there comes up acceleration via nozzle-effect. Within narrow gaps of these channels, previous multiple-collisions are frequent. The normal spreading of molecular speeds of involved particles is differed and flows are accelerated beyond sound-speed (effect of 'Laval-Nozzles' are discussed in details at chapter 06.03. 'Ultrasound-Engine'). That release of kinetic energies lowers and overcomes melting point of rocks or that mixture of gases and solid particles, resulting liquid magma-eruptions or lava-flows.

As materia flows off the glowing chambers inside of earth, the pressure down there suddenly is reduced, at least at environment of that volcano. The vaults and domes at this area thus could really collapse or at least partially break down. However for example, even the massive Pacific-plate could have dropped as a whole and same time South-American plate could have tilt up. The Andes were suddenly lifted by kilometers, so Amazon now is 'backward-flowing'. At the other hand e.g. the bottom of Atlantic could have broken at total length, where now steady flow off gases or liquid materials and continents drift off to both sides (see 'black smokers' right side of picture).

Centrifugal forces and Hollow Earth

Naturally these are only speculative suspicions because we can not achieve precise knowledge of history and inside structure of earth. However even by conventional understanding of gravity as an attracting force between masses result problems respective arguments for existence of a 'hollow earth'. Many researchers assume, celestial bodies are build by several shells - bases on good reasons. The masses of earth-center would be pulled outward by (conventional) gravity, so would have no 'weight' and would show only few density. Materia should be most dense within a ring resp. shell (at about 2000 km depth) because to that region the masses from outside and from inside would be pulled. Within that shell would exist the stongest attraction into tangential directions.

By previous considerations to motion-shape and effects of Free Aether results a blocking layer already within transient-zone at some 600 km depth. At least there end all outside influences, of radiations and of general aether-pressure (and also of gravity, see below). The masses further inside are no longer pressed inward - but are pushing outward, based on just normal centrifugal forces.

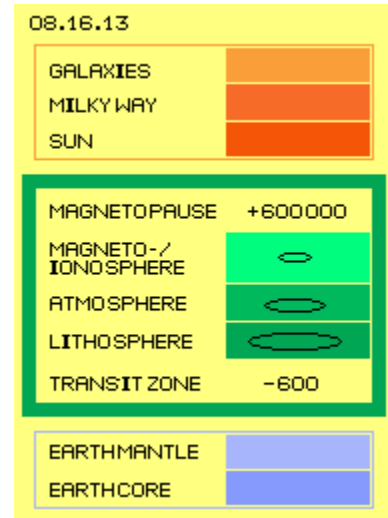
Every aether-vortex wants to wander straight ahead within space and that well known inertia is valid universe-wide. Only a beating motion of Free Aether can redirect materia from this straight path, e.g. like planets drift around within ecliptic. That circled pushing affects also at all atoms within earth, however in addition these vortices rotate around earth-center (pushed by the aether-vortex of earth, see next chapter). They shove outward - so instead of a heavy earth-core at the middle exists 'emptiness', thus most probably no materia at all.

Centrifugal forces exist also at earth-surface, however that force is much weaker that the radial pressure towards earth. The inward-pushing forces become weaker further down, nevertheless still compensating the also decreasing centrifugal forces of inner masses. Nevertheless that soft, radial outward directed pressure well could result the gradual growth of earth-circumference (as now exact is measured). Opposite to other hypotheses, e.g. no neutrinos are needed to build new materia. So based on centrifugal forces it's more plausible, only the central emptiness becomes wider.

Regions of Gravity

At all previous considerations no attracting forces were involved, so it's question where and how gravity should work at all. The answer: within green regions respective only at the spheres marked green, here at picture 08.16.13 highlighted once more.

Gravity-effect starts with magnetopause, which reaches up to height of about 600 000 km, however at sun-side of earth is pressed down to 60 000 km (or by heavy solar winds even deeper for short time). Gravity occurs at ionosphere (where the height of most strong 'charge-density' is also varying). Downward-thrust exists also within the atmosphere (with its density of gas-particles increasing towards earth). Within earth-crust at sphere of 'heterogeneous aether that external influence becomes weaker. The gravity-effect finally ends within transit-zone at depth of about 600 km.



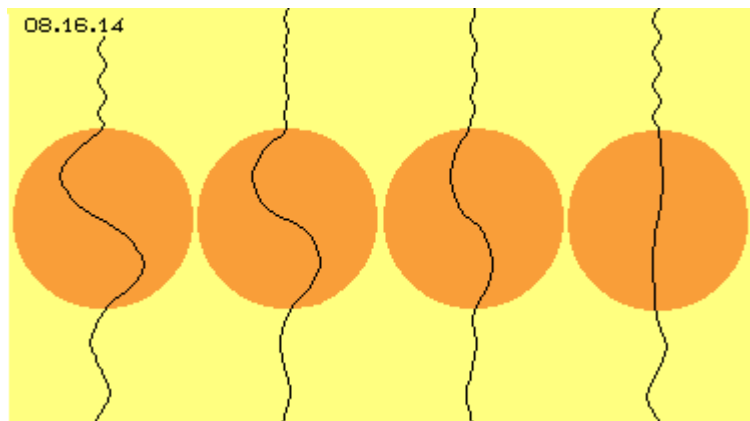
Outside of magnetosphere (red area) the aether moves very restless, especially based on solar-wind. Based on overlay of all radiations, the aether there moves rather 'chaotic' at narrow curves. Opposite, below the lithosphere motion pattern within the atoms and within the space between are adjusted so far, no longer a radial-inward beating gravity-thrust exists. Between these both spherical borders, at small band of few thousand kilometers, the structure of Free Aether changes continuously. By filter-function of magneto- und iono-sphere the aether calms down, because movements got rid off hard radiations. Already within the atmosphere the motions of Free Aether become more 'coarse-grained', because gradually taking the wide and ordered swinging of material particles.

This goes on at earth-crust where within the massive accumulation of 'coarse matter' also the Free Aether more and more loses its state of 'fine matter'. This adaptation now even is effecting reverse: the wide swinging of aether within deep rock-layers spreads upward into the Free Aether at earth-surface and even into atmosphere. So the aether at and upside of earth-surface is swinging at wider curves than the loose gathered gas-particles could affect.

Gravity-Thrust

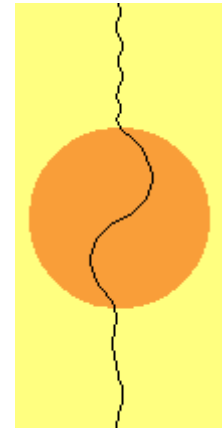
Uniform moving aether affects neutral universal aether-pressure. As soon as Free Aether moves at tracks-with-stroke, thus showing an additional beating motion component, it affects thrust onto local vortex-systems. Here within that gravity-region, the Free Aether shows wider motions increasing from outside inward. Above an atom the aether is narrow swinging and affects corresponding high pressure onto the upper side of atom. Below the aether is swinging some wider, so some more corresponding to the wide-rang swinging of the atom. This aether 'more coarse' affects less pressure onto the bottom side of atom.

That difference results radial thrust of gravity. The motion-structure of Free Aether changes only marginal, towards earth however some stronger. Resulting is the relative weak force of gravity, which is maximum at earth-surface, becomes weaker at the height and beyond the magnetosphere hardly measurable. The gradual change of aether-structure goes



on into earth-crust, however decreasing with the depth until the transient-zone. This gradient no longer exists within exclusive crystalic rocks respective plasmatic mixture.

At picture 08.16.14 that situation is sketched by extreme overdrawn scale. The curved black lines represent vertical connecting-lines of neighboring aether-points. The red disks represent atoms, each marked by one wide swinging 'double-crank'. For example: if the amplitude here would be 2 cm, the diameter of atom should at least be 200 m. Upside of atom the Free Aether is swinging relative narrow, below the atom it swings gradually some wider (here again extremely overdrawn).

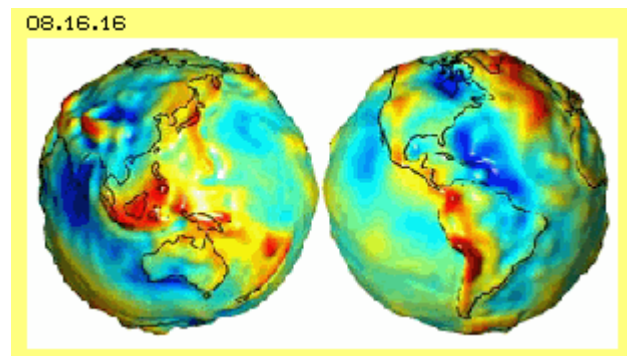


The narrow swinging at upper surface 'rattles' at the aura of atom most strong and thus affects corresponding strong downward-pressure. The wide swinging at the bottom surface is running more conforming to the swinging motions of atom and the smooth transition is pushing upward the aura of atom some weaker. At this picture are drawn four phases of different swinging upside of, within and below the atom. At the animation the total motion-process is visible, however still extreme overdrawn.

This process is cause and result of gravity, which is only working within near environment of earth and analogue around other celestial bodies. Gravity however is no universe-wide effecting force and never ever is a constant force. Gravity is affecting at the earth-ground and is decreasing by increasing height, ending already at the 'border' of earth-aura. Gravity is not depending on the mass of a celestial body, but varies with the structure of its near environment (existence of a magnet-field, an iono- and / or an atmosphere) and is also determined by the inner structure of celestial body (e.g. solid or only gaseous layers).

Differing Gravity

The gravity of earth is not uniform but there are regions of more or less 'earth-attraction-forces'. Based on complex scientific procedures, sensitive measurement equipment and hightec computing capacities an 'geoid' results e.g. like shown at picture 08.16.16. It shows diverse hills (red) and depressions (blue) in comparison with 'normal-shape' of earth-surface, up to about 120 m.



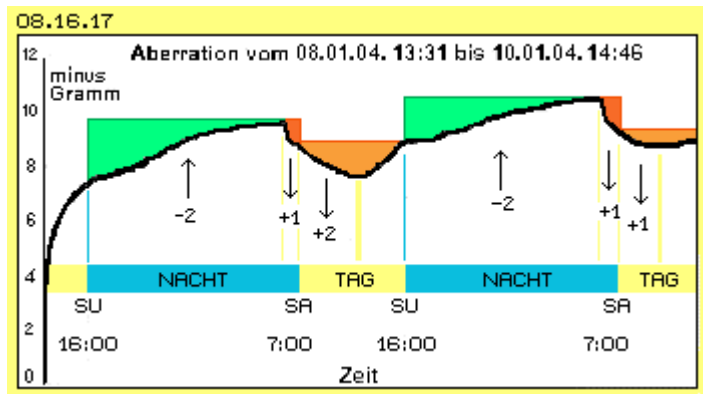
There is assumed, the strength of gravity is related to distance from earth-center. The measured differences are transferred into corresponding height upside / below 'normal-zero' resp. the ideal-ellipsoid. These differences up to 0.02 per thousand in principle are explained by different mass-accumulations within earth. One well knows some other exerting factors, nevertheless many questions still remain. Naturally one hopes to solve problems with improved technologies - however one has no doubts about general definition of gravity-attraction, depending on mass and radius.

Varying Gravity

If this would really be true, the gravity forces could not show hundred times stronger changes (thus instead of previous 0.02 a range of 2.00) at one place every day. Dr. Dietrich Schuster (a good friend of mine, outstanding scientist, unfortunately deceased) gave me a graph with some results of his experiments, like shown at picture 08.16.17. As a chemist he was experienced with highly sensitive scales and naturally with planning and realizing difficult experiments.

He build several round cylinders with layers of crystal rocks and copper-grids, as a rotor free turnable, mounted at a precious-scale. The units were hermetically sealed, measurements were electronic registered and analyzed. After some time, the rotor started slowly turning by itself (counter-clockwise) and the weight (of about 20 kg, depending on used sample) decreased by about seven gram (see starting phase left side of graph).

During the night (blue section) the rotor became lighter by further two gram (area marked green). One hour before sunrise (SA) the observed mass showed weight increasing rather fast (marked dark red) and to the middle of day (yellow section) weighted some further gram (light red).



Next day that aberration of weight repeated analogue. Schuster made

experiments with rotors of different materials and all did show that process in principle (all times with divergences at range of several gram, thus far beyond error-rate). Even stronger differences of weight resulted while a solar eclipse. The measures even did react on thunderstorms respective on temporary atmospheric changes (probably because rotors reacted with 'orgon'). At some conferences, Schuster presented also quite simple experiments. Just normal measure-cups of glass did show remarkable changes of weight if only an electrostatic charged ring was hold nearby (without direct contact).

Also previous graph can be explained by 'electrostatic' influences respective their real aether-background: during the night the earth is protected from hard radiations of sun. The wide-swinging of earth-atoms resp. the aether between the atoms can spread some wider into atmosphere and ionosphere. Near to earth-surface thus die gradients are smaller, i.e. the mass becomes more light (at picture 08.16.14 a smaller difference upside and below the atom there). Already short time before sunrise the sun-radiations are running cross into ionosphere, the aether there becomes more 'hectic', i.e. the swinging-differences are shifted down and the gradients are 'compressed' and thus results measurable increased weight. When sun stands high, the 'disturbances' of aether are pressed further down. At afternoon the sun-radiations are running diagonal and finally at evening the aether can 'calm down' and the transit from wide to narrow swinging aether is again shifted further outward.

Certainly the different accumulations of rock-masses have an influence for previous 'geoid'. However it's not the mass by itself but the 'calmness resp. restlessness' within the subsoil is important. Nevertheless the conditions upside of earth-surface are affecting many times stronger - as data show. Even more grave the difference depends on structure of celestial body, existing by solid or only gaseous materia, existence of an atmosphere and / or a magnet-field. So gravity is individual for every celestial body.

Individual Gravity

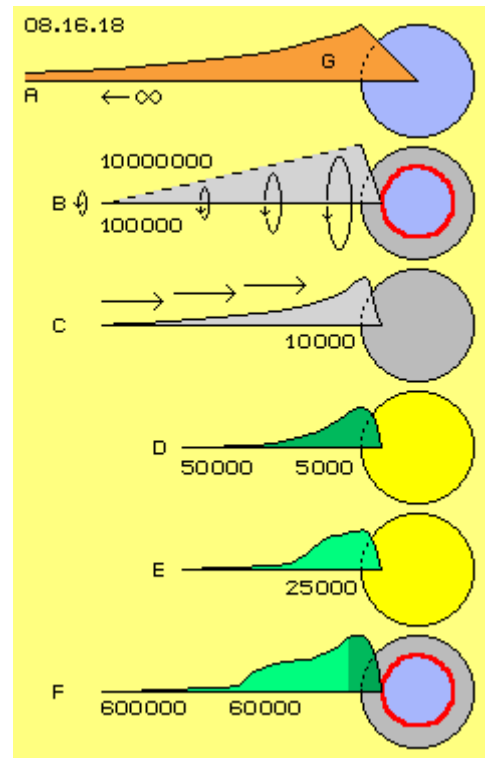
At picture 08.16.18 are sketched the principle variations of gravity at diverse celestial bodies. At first the conventional view of gravity (G) is shown at A. There it's told, the mass of celestial body is decisive and its force should decrease inversely proportional to the radius (see curve over the red face). Theoretic that gravity reaches out infinite far and indeed with that 'universal constant' calculations are made up until Big Bang resp. the end of universe (an absurdity by itself). The mass is assumed point-shaped, however already by that view of 'attraction' the materia within center is 'weightless', i.e. the gravity force towards the core becomes null.

At B is sketched the previous discussed cause of gravity-effect. The Free Aether between atoms gradually takes the wider swinging of Bounded Aether, thus adapts to motions of 'material' vortex-complexes. From earth-crust inward, all motions increasingly correspond, so inside of transit-zone (red ring) no longer any gravity exists. The wide aether-swinging reaches towards outside, however by reduced size (represented by arrow-rings). Within really neutral Free Aether (left) such an 'aura' could reach out for ten million kilometer (to put a number opposite to previous 'infinity', with enough space remaining e.g. between earth and neighboring planets).

Rather sure the vortex-system of earth will reach out one million kilometer (see below). At least at distance of 100 000 km already an accumulation of materia should be 'smelled' - as neutral aether of space becomes swinging at gradually some wider tracks.

Naked Moon

That outward influencing starts from surface, no matter how flat or round it is and no matter which 'mass' stands behind. That 'emission' thus is the same e.g. for earth and for its smaller moon. However the moon has no protecting magnetic field and no atmosphere, so hard radiations with their hectic motions can push back the wider swinging towards moon-surface. At C this situation is represented by arrows, so gravity-effect (grey) is reduced to a narrow environment (see flat curve, increasing only near to surface).



Essential gravity probably will start only at height of 10 000 km. Satellites for example at first are slowed down at an elliptic track of maximum 3000 km. Most moon-satellites fly at height of about 200 km and run around moon every two hours by speed of about 6000 km/h. Momentary a Japanese satellite flies around moon at 50 km height. Apollo-10 proved moon-landing: command-unit did fly at about 100 km and the landing-unit was lowered just upside of 'point of no return' at 14 km height. Finally so deep the 'attraction-force' of moon obviously shows stronger force.

However hard radiations push back the spreading of material wide swinging so far, even at moon-surface the gravity-force is only a part or earthly gravity. Based on these considerations I assert, gravity of moon towards outward decreases stronger than inversely proportional to distance. Analogue is valid for other solid celestial bodies which are bothered by radiations without a protecting shell. No matter how huge or small they are, only within narrow environment they will show gravity - of less forces than measured at earth.

Weight-lacking Stars and Gas-Planets

Opposite to common view, huge gas-planets and stars have even less 'attracting forces'. At solid planets the atoms are positioned nearby each other, five times less density has the water - however thousand times wider are the gaps between gas-particles. These are single atoms or molecules with only few atoms and these particles build no dense accumulations. The aether within gases thus has no cause to adapt the motion-structures of these lonely atoms resp. particles. Where no gradient between narrow and wide swinging of Free Aether exists, no gradients for pushing gravity forces exist.

At this picture at D the remote-effect (green) e.g. is marked with maximum 50 000 km height above gas-surface. Gravity however could also start finally at height of only 5000 km (e.g. at Jupiter like at sun). Only if celestial bodies have an ordered magnetic-field or an atmosphere, the outside radiations are filtered, so further outside gravity-thrust could come up e.g. at 25 000 km as noted at E (see wider curve above green area).

Naturally I am aware, these statements are most provocative or even totally unbelievable. Naturally it's up to everybody to believe in attracting forces of masses and only these forces e.g. can keep the planets and moons at their circling tracks. Realiter however they just are 'swimming' around with the ecliptic resp. the aether-whirlpool around celestial bodies. It exists a clear alternative for 'track-holding forces', so e.g. the moon is 'bound' to earth (see next chapter) - without any attraction.

Earthy Gravity

At this picture 08.16.18 below at F once more the increasing gravity force towards earth is sketched. The magnet-field is stretched to about 600 000 km at night-side, however at this long tail are no clear gradients between wide and narrow aether swinging. At sun-side of earth, the magneto-pause is compressed to some 60 000 km and at that height the essential earthy gravity will start.

However there is no steady rise of forces, as would result by common formula based on shorter distances towards earth center. The gradients wander in- and outward with the changes of ionosphere (light green) and also of atmosphere (dark green, also see previous example of aberration at picture 08.16.17). It would be rewarding job for appropriate researchers to measure strength of gravity at different heights upside of a location and its chronological changes, so real essence of gravity could be detected respective previous claims were proved.

Below earth-surface (dark green) the gravity becomes weaker and already at depth of about 600 km the effect ends. These appearances, differing from common sciences, by parts are already approved. For example, some experiments with free falling masses did clearly show, the acceleration is neither steady nor direction is straight down (but at spiral tracks, like all motions within aether).

Changing Mind and Einstein-Episode

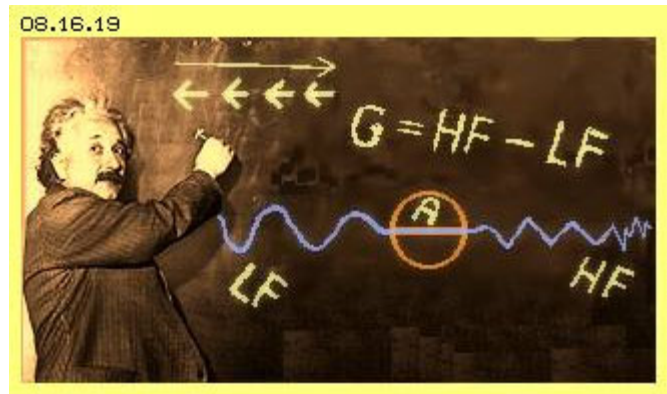
So even your mind boggles: it's no doubt gravity is an appearance only within near environment of celestial bodies. Each has its individual gravity with special range and gradation. The experiences of earthy gravity can not be transferred beyond their effecting range. Gravity is no universal and no constant effecting force. All calculations beyond that narrow space are totally misleading.

Many readers know, gravity can not be identical to suggested 'attraction'. The astronomy has severe problems with calculations based on constant gravity. The planets don't move exactly corresponding to 'pretended exact laws', the milky-way can not function like commonly assumed and universe misses major masses or even anti-gravity must be 'invented'.

So there must be something general wrong at common understanding of gravity. However I fear most readers will mentally not follow my arguments, because old ideas are resistant. It's too bad, previous Einstein-episode is not true. One would have believed him, even when he would have simplified:

" ... The aether of space is moving high-frequent, at spheres of earth the most hard radiations are absorbed and the earth anyhow is radiating only by low-frequencies.

Each atom A at or above earth-surface thus is exposed to a gradient of vibration-pressure. The gravity G corresponds to difference of high-frequency HF to low-frequency LF of the aether motions around the earth ... ".



For experimental prove he tight a steel cable cross the lecture hall and a ball was mounted, allowing motion to and fro along the cable. At both ends the students were asked to rattle at the cable and each one could easy learn, when and why the ball was shifted to one side.

Nobody had to believe but quite naturally could understand how gravity works. Unfortunately Einstein did not achieve previous reverse-conclusion in time, but did leave behind - up to now - a confused audience. Otherwise the story of physics and techniques, probably also of society, would have taken an other course. What a pity for lost century.

Evert / 2010-02-20