

The day after "the acceptance of the Plate Tectonics theory"

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Tomari (2008) concluded that acceptance of the theory of plate tectonics (PT) by the field of geology in Japan was around the year 1986, approximately 10 years behind the fields of seismology and geophysics. As one of the grounds for this, Tomari cited the curve of the increase in the frequency of use of "plate words" among the keywords of presentations of the Seismological Society of Japan and Geological Society of Japan. By contrast, Shibasaki (2011) questioned whether this comparison could be explained by the concept of "field" as defined by Bourdieu and not the timing of acceptance of PT theory. Moreover, Chiba (2016) demonstrated that in response to this question by Shibasaki, we can explain the comparison by Tomari concerning differences in geological and geophysical methods/terminology.

The present study compares the literature of regional geology since 1986, in which the geological field of Japan is indicated to have accepted PT theory, concerning what sort of characteristics are seen in studies that clearly deny PT theory, those that do not use "plate words" in the description, and those that conversely attempt to use "plate words." It can be said that the principal aim of regional geology is to describe the geology and structure of a specific area and further aims to clarify the history of structural development of the area (naturally, this does not exclude the possible establishment of applications to resources/environment or general theories concerning geological phenomena or further targets). Therefore, it is possible that the description of researchers may be influenced by the regional geological status, which is the main field. It is possible that individual geologists have controlled the process of acceptance of PT theory.

Following the "science wars" in the 1990s, especially the Sokal affair, it has been said that "science is co-produced from nature and society" (Andrew Pickering, 1995, etc.). Tomari (2008) clarified the so-called social aspect of the process of PT theory acceptance as a scientific affair in Japan. Interesting problems still remain unsolved regarding the aspect of "interactions of nature and researchers." This presentation aims to discuss the relationship between the field as a research subject of geologists and the process of acceptance of PT theory.

Keywords: The Acceptance of the Plate Tectonics Theory , The History of the Earth Sciences , Science, Technology and Society

Citizen-led Environmental Governance: Collective Decision Making, Science Communication, and Mind-Climate

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For effective collective decision making on the future of global environment and contemporary humans, it is required to deal with complex knowledge of science and technology in its interface with society that comprises of diverse actors (stakeholders) and sectors (production areas of industry, government, academia, civil society, and military). The current presentation reports a dialogue experiment among citizens and between citizens and experts, for citizens to take part in environmental governance as a sovereign, from the viewpoint of science communication, focusing on post-Fukushima energy and environmental issues in Japan (in particular high-level radioactive waste). It argues the necessity of taking into account of emotions and value systems (priority of multiple values) as well as reasons, in dialogue and decision making, because of not only complexity of science and technology but also diversity of viewpoints and interest in society. It also illustrates the relation with autonomy and spontaneousness. Moreover, it discusses the role of human beings' propensity to irrationality ("mind-climate") towards adaptable management of global environment including society, with emergence.

Keywords: environmental governance, science communication, "mind-climate"

A Proposal of Activating History, Theory and Social Demands of the Earth and Planetary Sciences

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Earth and Planetary Science, once used to be called Chi-gaku (Geo-science), has been rapidly evolving to relate closely with a variety of research fields (physics, astronomy, biology, environments etc). Now STS (Science, Technology and Society) is a trio from which we Homo sapiens can never be escaped. In our research program DEEP (Decoding Earth's Evolution Program; 1995~8), we have listed a set of seven big events in the Earth's History to be tackled with as the science research target. The first big event is the formation of the Earth and planets in this Solar system. The seventh event among them was the emergence of scientific exploration by a human being to start exploring the history and destination of the Earth and the Universe. Such a statement was criticized of too much extreme view. However, the actual history of science runs faster than people feels. A new research organization WPI-ELSI (Earth Life Science Institute) was launched (Maruyama, 2012), and its aggressive activities had started to push evolving the research fields of our interests. We are changing and so is the science and the associated technology.

Under such a situation, we recognize the necessity of the three essential elements: (1) 'Theory of Science' to understand science itself on the basis of science, (2) 'History of Science' to learn from our own past experience with science, and (3) 'Future of Science', with which we Homo sapiens has "our own destination to survival continuation of both our life and its cultural valuables created so far".

Whereas there is not any logical reason at all to the three factors in the above, we intuitively demand us those three by means of developing the better science, simply because we do not know anything better and potential than science to understand this World. In other words, we are in the position to design and create a desirable hybrid of 'Homo sapiens and Science' as a consequence of our past history in this World.

Logic is an essential key in science, whereas a human being is influenced mostly by emotion. Whereas emotion itself is quite difficult to observe, so called 'mind climate' appears as such a phenomenon that could be observed and measured by means of science method much easily once research investment is made. Our preliminary study on the and it could be related to social behaviors of human beings. Mind climate has not been science terminology. Consequently, we propose the scientific study of the mind climate, so as to be manageable with ethical way.

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A review of studies on “Mind Climate”

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Mind Climate (MC) encompasses aesthetic sense, intentionality, values, morality, ethics, worldview, and the environment which be creating those. This concept is alike a tacit knowledge, mass psychology, and group thinking, is the main topic in social psychology, and a cultural psychology. However, MC is different from others in the observable range. MC overview a history of the earth and homo sapiens is the study including a physical environment such as geography, biology and ecology such as gene and epigenetics, and a social human environment promoting culture climate. Ueno & Kumazawa, etc. are trying to understand MC using method called science. They proposed a model for the formation process of MC, classification, and relevancy, but individual detail inside the model is not clear.

In this presentation, we will review various research which related to physical environment, biology and ecological environment and a social human environment in the model. In the physical environment, we introduce the influence of climate and topography and concerning about environmental determinism. In the biology and ecology, we summarize the influence of genetics and epigenesis on human' s nature, personality. In the social human environment, we introduce the influence of imprinting phenomenon, custom, and region, etc. and attempt to add detail to the model.

This work is supported by the Collaboration Research Program of IDEAS, Chubu University IDEAS201608.

Keywords: Mind Climate, Environmentalism, Genetic determinism, Religious, Cultural psychology

Research on Ore and Mineral Specimens in the Edo Period, from Iwami Ginzan Silver Mine, Japan

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The ore and mineral specimens from the Iwami Ginzan Silver Mine in the Edo period were found in Omori, Ohda City, Shimane Prefecture, Japan. Currently, there are 58 ore specimens in the Iwami Silvermine Museum, out of which 24 are wrapped in paper. The wrapping paper contains information pertaining to the name of ore or minerals from the Edo period, place of sampling, sampler, date of collection, and quality. The ore specimens mined in the Edo period are rare and thus valuable. The specimens of this study are very rare cases with ancient document information that are accompanied by academic values such as historical materials and cultural properties, which is considered highly valuable. These ore specimens were analyzed using X-ray powder diffractometry (XRD), energy-dispersive X-ray spectroscopy (EDS), and scanning electron microscopy (SEM). As a result, silver ore minerals such as native silver, argentite (acanthite), and tetrahedrite were found. We thoroughly read the old document to verify it.

In the early Edo period, Japan produced a large amount of gold and silver and used these abundant resources for trade. Japan's silver production accounted for approximately one-third of the worldwide production in the 16th and 17th centuries, and majority of Japan's production occurred at the Iwami Ginzan Silver Mine. Silver production at the Iwami Ginzan Silver Mine was one of the largest in the world during the time. However, only few silver ores, produced from this mine in the Edo period, are said to currently exist because of the heavy restriction and control on silver ores by the Tokugawa Shogunate of Japan.

The ore specimens introduced in this research were collected by the Takahashi family who was the "Yamashi" (manager) of Iwami Ginzan Silver Mine. It is presumed that the ores were mined later in the Edo period. The specimen is contained in a wooden box with a length of 31.2 cm, a breadth of 21.5 cm, and 4.0 cm from top to bottom. The box, stacked in three tiers, is internally partitioned into meshes (6 × 4) with a side of 4.3 cm. In this specimen group, various ores with high historical and cultural property value, including the high-quality silver ore "fukuishi" (the ore containing native silver), are collected.

This study suggests that these traditional ore and mineral specimens will provide a significant clue in clarifying the situations and methods of silver production in the Iwami Ginzan Silver Mine in the Edo period.

Keywords: Iwami Ginzan Silver Mine, ore specimens, mineral, silver, the Edo Period, Shimane

Natural disaster research archived in records in Kamo-wake-ikazuchi shrine (Kamigamo-shrine)

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Historical documents archived in shrines include natural disasters such as earthquakes and floods, and astronomical phenomena such as low latitude aurora and comets. Especially in the shrines of Kyoto, records can be reversed long, and the same phenomenon is often recorded in many shrines in parallel. By combining with current knowledge these old records can be valuable scientific data before modern scientific observations. What kind of natural phenomena is the recorded situation in light of the current knowledge and how each person of the time realized the situation, what kind of reaction did it respond to it and how It is possible to clarify whether they corresponded (such as relief and prayer). In addition to data as a natural science, this may be used as a data of science and technology sociology theory in terms of the record of the relationship between nature at the time and society.

The company diary (Kamigamo Shrine) 's diary ("Hinamiki"), which is currently conducting the survey, is a continuous record and continuous record over the 247 years from 1665 to 1911. Earthquakes, floods, low-latitude aurora, crime, and other events that people recognized as abnormal at that time are noted. Last fiscal year, we started using surveys such as photographing partial historical documents by utilizing the catalog of published books. Looking at the records of Kamigamo Shrine about the aurora witnessed in various parts of Japan in 1770, the discussion as to whether the people around the temple company gather or pray should continue until midnight, before the rare phenomenon we, people nowadays can see how people responded.

By investigating the relationship between other phenomena such as earthquakes and prayers, it is possible to see in detail the nature view at the time and its transition, including the magnitude of the phenomenon, by discussing it. Approaches from both historical and natural sciences are essential. Historical materials of shrines in Kyoto are huge, and it is impossible for all researchers to decipher just the company diary of Kamigamo Shrine. As a means to solve this problem, decryption by citizen participation can be considered. Such efforts are not only fusion of different fields among researchers, but also from the viewpoint of citizen science, fusion with citizens is effective, so that we can use these records as material of research about the relationship between the present science, technology, academia and citizens, not only in the past but also in present.

Keywords: natural disaster, archives

The Development of Space Geodetic Technologies and The Transformation of the 'Form of Life' of Researchers

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After 1980s, space geodetic technologies drastically changed the environment of researchers. These technologies, such as VLBI, SLR, GPS, SAR, GRACE and GOCE, have enabled researchers to acquire gravity and deformation data semi-automatically. On the other hand, they allowed researchers to study without any observations by themselves. In this paper, I will discuss the relationship between the development of observational technologies and the transformation of research style of researchers.

Keywords: Artificial Satellite, Geodesy, Research Style

Proving method by Abduction of *New stationary cosmology* in astrophysics. (*Describe the Earth-centered Redshift and isotropic background radiation, Neither Expansion nor Creation*)

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A new stationary universe^[1] (neither expansion nor substance creation) can explain the red-shift of the earth-center and isotropic background radiation.

Why is redshift shifted farther away from Earth, although Earth is not in Center of Universe?

Why can we explain the undetectable expansion on the Earth with distant light?

<< **Explanation of Red-shift** >>

Steady universe that can explain the global red shift and isotropic background radiation. In 1929, Edwin Hubble proposes that there is a proportional relationship between the nebula distance from the earth and the red-shifting. That rule is called Hubble's Law. The speed of the galaxy can be represented mathematically, $v = H \times d$ (1)

Where V (velocity) is the outward velocity in the radial direction of the galaxy and d (distance) is the distance from the earth to the galaxy. The Hubble constant H is $H = + 500$ to 560 km / sec / million / sec. 1929 to 1931. Recent values are 72 ± 4 km / sec / million / secs.

<< **Expansion universe hypothesis** >>

According to Friedman's hypothesis, if the observation result is interpreted as Doppler effect only, it can be interpreted as an exercise in which the galactic outer nebula is expanding in the gravitational field equation. (A. Einstein)

In order to reproduce the red shift, the farther away from the center of the earth the source galaxy needs to retreat at high speed. In Newtonian mechanics, the inertial motion can only sustain constant velocity linear motion, so the outer space needs to continue to expand. Even if the reason for expansion is unknown, the red shift can be reproduced. There is no explanation as to why the value of the red shift is observed to increase as far as the Earth, mainly for the Earth, and why it is observed. It is said that the universe is expanding from observation results. It was because quantum mechanics was incomplete. Therefore, after explaining the interpretation of the red shift with the Doppler effect, it is a flower of various cosmology.

<< **1. Constant Universe Hypothesis of Quantum Red Shift^[1]** >>

Considering the law of conservation of energy and $E = h \cdot \nu$, the wavelength is shifted by α^2 times at a position α times the distance R_s at which the wavelength is started to be shifted after being diluted. In addition, a redshift at the center of the earth (observation point) is also observed. Even if the universe is not inflated, a new stationary cosmology that can explain Hubble's red shift can be completed.

<< **2. Description of background radiation** >>

If the universe is closed, background radiation can also be explained by frequency shift from the opposite side of the energy preserving universe.

If space is closed, 3 °K isotropic background radiation can also be explained by dilution of average energy by Lambert's law of the average star (the sun).

<< **3 Reason why the universe does not collapse, New interpretation of inertial mass** >>

Furthermore, the inertial mass is a Mach dynamics interpretation, mass reaction against the resultant force (gravitational force) of all the universe, which is also the reason why the total mass of the universe does not collapse to a single point.

<< Unified interpretation by abduction >>

In Abu Da Kyung there is a need to be able to explain the current situation. Furthermore, if you can explain another current situation (isotropic background radiation), the truth will increase more. In this way, since it can be interpreted uniformly by the new stationary space hypothesis, **there is no need for expanding the outer space, and there is no need to exercise in the distant universe. There is also no need for the quasar to move beyond the speed of light.**

I wonder if energy is necessary for the space to expand.

Since the space does not expand, a new mechanism is unnecessary.

Observation results of the universe are difficult to explain either by induction or by deduction. Being able to propose a reasonable hypothesis that can explain it unifiedly helps explore the truth in abduction.

[1]Space Quantum Red Shift Hypothesis and New Theory of Non-Expansion Universe AKIRA TANEKO.

Keywords: Proving method by Abduction of stationary universe., Collapse of the Expansion Universe Hypothesis, The mystery of redshift that Earth is the center, Mystery of isotropic background radiation

M-ZZ42 赤方偏移が何故 地球を中心として観測されるのか? 空間量子赤方偏移仮説 2017 -05/21

Abductionを適用し
 Z_q 計算結果と解釈
空間量子化vs膨張.
 その変換波長 λ' を計算

- $\lambda' = \lambda, Z_q = 0$
(但し $0 \leq \alpha < 1$)
- $\lambda' = \lambda \cdot r'^2 / r^2$
 $= r \cdot (r' / r_e)^2 = \lambda \cdot \alpha^2$
 $Z_q = \alpha^2 - 1$ (但し $1 \leq \alpha$)

地球中心の赤方偏移を,
 量子赤方偏移仮説では,
 計測位置による必然として説明できた. 膨張不用.

膨張仮説では $\lambda' = \lambda(1+V/c)$ [ドップラー効果] V について解くと,
 $V = c \cdot (\lambda' / \lambda - 1) = c \cdot (\beta - 1)$ である. $\beta \equiv \lambda' / \lambda$ と定義すると,
 $Z_q \equiv (\lambda' - \lambda) / \lambda = \beta - 1 \equiv V/c$ ただし $2 < \beta$ の範囲で光速を超える.
 ハッブル測定結果で $Z_q = r \cdot K$ $\therefore V = r \cdot c \cdot K$ r が大で V が超光速.

The graph plots Z_q on the y-axis (ranging from -2.0 to 16.0) against $\alpha \equiv r/r_e$ on the x-axis (ranging from 0.0 to 5.0). Three data series are shown: 1) '空間量子赤方偏移の定常宇宙仮説' (Quantum red shift Steady-State Cosmology) shown as blue diamonds, which follows a curve $Z_q = \alpha^2 - 1$; 2) '量子赤方偏移のみによる距離にのみ依存' (Quantum Red-shift due only to the distance, No need to exceed the speed of Light.) shown as red squares, which is a constant horizontal line at $Z_q \approx 1.0$; 3) '膨張宇宙仮説' (Red-shift due to the Doppler effect with High Velocity to the distant) shown as green triangles, which follows a linear trend $Z_q = \alpha - 1$.

Proof method of origin in space physics by abduction, at the past before the earth and life are formed.

(Earth ·large red spot ·asteroid belt ·moon ·deep ocean floor ·plate tectonics ·life),

It is the best way to unify explore all origins.

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Proof method of origin in space physics by abduction, at the past before the earth and life are formed.(Earth ·Jupiter Large Red Spot ·Asteroid belt ·Moon ·Deep ocean floor ·Plate tectonics ·Life)

It is difficult to prove the Origin of the earth and Life with Induction and Deduction, and demonstration can not be realized even with unknown initial conditions. In cosmology and geophysics, there is a need to approach the origin before the birth of mankind, and the time machine is not realized now, so the method was sought.

However, ***Abduction (Creative inference) can prove its origin***. In the origins of the solar system, the origins of the earth and the origin of life, there is a present situation as a result of a one time origin and evolution. When the hypothesis is correct, you can explain all the results in a unified way. However, in the case of the wrong hypothesis, only a part of the results can be explained, and **a new contradiction arises that a new mystery will be born**.

In other words, even a single source and evolution can be verified with multiple items with the same initial conditions and progress of evolution, so it is perfect verification that you can explain multiple items in a unified way. Conversely, the good or bad of the hypothesis can be verified immediately.

Naturally, the hypothesis needs to be physically meaningful and evolution occurs according to scientific laws.

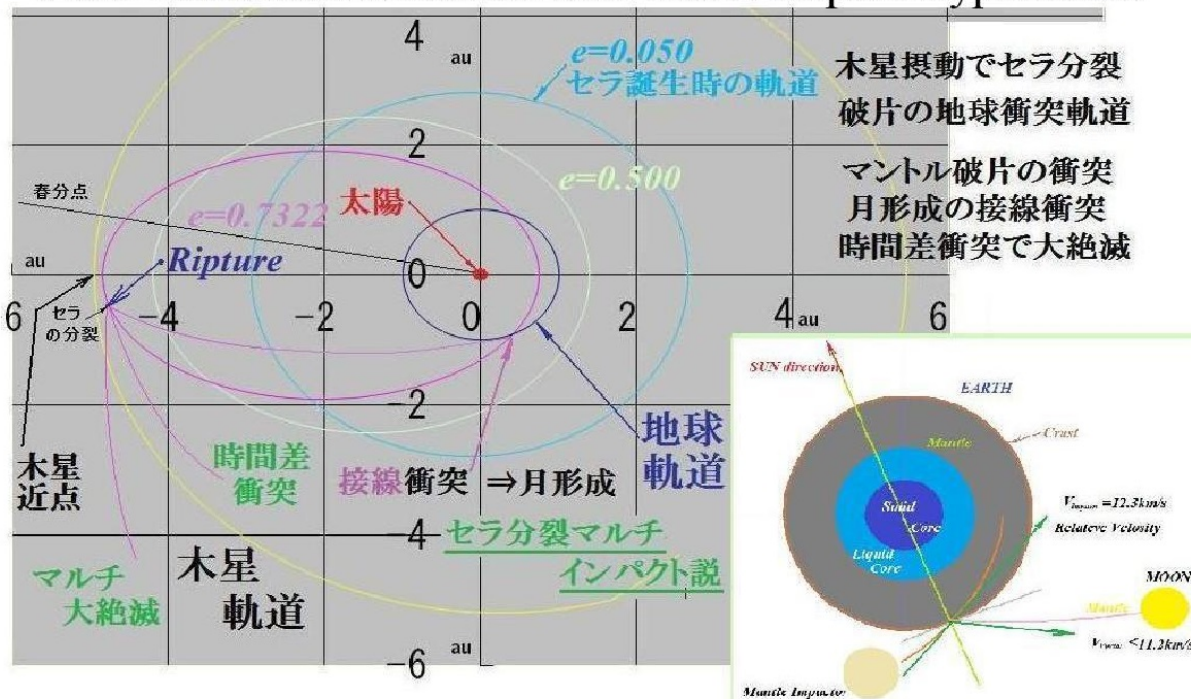
When verifying "multi impact hypothesis" by abduction it was able to verify uniformly with the following items.

"The origin of the deep oceanic crustal deep ocean occupying 70% of the earth's surface area, the origins of the moon, the density difference of the front and the back of the moon the origin of the mystery of the eccentricity, the core eccentricity of the earth Origin, origin of plate tectonics and boundary cracks, origin of plate movement, origin of movement direction change, origin of tilt axis tilt from Earth's revolution surface, origin of asteroid belt, origin of differentiated asteroid, origin of Jupiter great red spot, Origin of differentiated meteorite, Origin where core-mantle ratio of Mercury is double of Earth-type planet, reasons why Antarctica does not move, origin of Kimberlite pipe, origin of arcuate archipelago and back arc basin, origin of plate mutual submergence , The species extinction is the origin of repeated species "

It is the best way to unify explore all origins.

Keywords: Proof method of origin by abduction, Earth •large red spot •asteroid belt •moon •deep ocean floor •plate tectonics •life , the best way to unify explore all origins

The Origin of The Moon and The deep sea floor bottom and Plate-Tectonics elucidated with Multi-Impact Hypothesis.



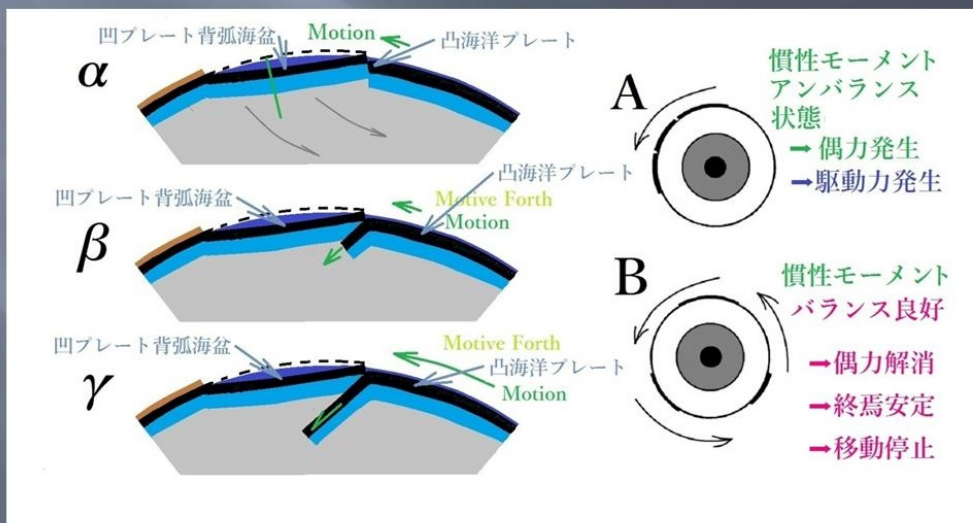
08-08 The Origin of the Deep Ocean Floor and the Plate-Tectonics, Elucidation of the Driving Force, The Origin of the Moon and the Earth Deep Ocean Floor with Multi-Impact Hypothesis 2016 9-14

8. プレートの駆動力, 同じ密度のプレートが上下に重なる理由

8.1. プレートの駆動力は謎であった。①. マントル対流仮説(.ホームズ)
 ②. 前引き, 後押し仮説 ③. リソフェア厚さ傾斜仮説 ④. プリューム仮説
 ⑤. 慣性モーメントアンバランス解消偶力説 (本仮説) 偏芯の解消偶力.
 マルチインパクト仮説で地殻プレートが図Aの状態⇒図Bの均質安定状態.

8.2. 同じ密度のプレートが他方の下に潜り込んで, 海溝と和達・ベニオフ帯を形成するメカニズムの謎も有った. 衝突剥離時のアイソスタシーで凹海盆 α

が形成された.
 凸プレートと, 凹プレートが押し合うと, 凸プレートが折れ曲がって, 凹プレートの下に潜り込む. β .
 更に深く和達・ベニオフ帯を形成して, 地震発生面に成る.



Transactional Carbon Accounting

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Accounting for the effects of anthropogenic changes in carbon flux within the earth's critical zone will be a major, fundamental challenge to address carbon-driven climate change. As a scalar path-function measure of equivalent inorganic carbon emissions, CO₂e is a necessary but insufficient metric for global carbon management. We propose a new, comprehensive strategy for fiscal accounting of anthropogenic changes in carbon flux that employs a vector, state-function, temporal metric applied to each microeconomic transaction[i], forming the basis of a transactional accounting system.

Simply stated, the proposed metric is a measure of the temporal velocity of carbon in the critical zone toward sinks such as the atmosphere and oceans, reflecting how we employ a carbon flux temporal differential to achieve a carbon-based energy differential.

This accounting methodology allows for a granular, more detailed analysis of carbon-related anthropogenic activity within a broader, more comprehensive overall framework for all such activities at all levels of the economy. In turn, the methodology promotes a more detailed macroeconomic assessment of carbon, such as in international trade flows.

A simple electrical circuit can demonstrate the vector, state-function, temporal carbon metric. The total resistance of multiple resistors in *series* is simply the sum of the individual resistors. For resistors in *parallel*, however, the total resistance is determined by adding together the inverse of the resistance, or conductance, of each of the individual parallel circuits. The inverse of the total conductance is then the total resistance of all the parallel circuits.

(insert Resistors.jpg image here)

[ii]

Electrical conductance is a simile for carbon flux in that we may add parallel carbon circuits, or flux, together to determine the total carbon flux to or from a carbon pool or sink. Until now, however, a simile for electrical resistance to describe the temporal (series) resistance of the flow (or flux) carbon toward a pool or sink has not existed.

A new term is needed to capture the conceptual inverse of carbon flux; a proposal for such a term is 'obdurance', represented by the Greek lowercase letter omicron (\omicron). As a temporal metric, the unit for obdurance is time, preferably years. Whereas electrical resistance is a measure of how much opposition there is to the passage of electrons[iii], carbon obdurance is a measure of how much temporal opposition there is to the passage of carbon atoms from one state or sink in the critical zone toward the atmosphere and oceans. A convenient way to make fractional changes in obdurance equivalent is to take the logarithm of the obdurance to convert it to a proposed new property, 'carbon quality', represented by 'cq':

$$\text{carbon quality (cq)} = \log_{10}(\text{obdurance}) = \log_{10}(\omicron)$$

The electrical circuit metaphor may provide further insights and tools to help apply transactional carbon accounting at each incremental step in the anthropogenic carbon cycle for managing anthropogenic carbon-driven climate change.

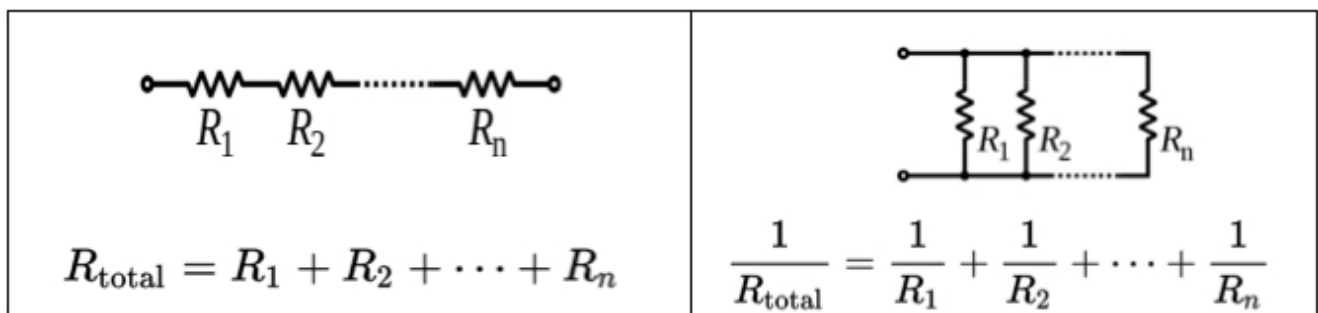
Application of the temporal carbon metric would result in a closer correlation between the behavior of carbon in the critical zone and the temporal consumption of carbon by the global economic engine.

[i] A transaction is a business event that has a monetary impact on an entity's financial statements and is recorded as an entry in its accounting records. Bragg, Steven. "Transaction Definition - AccountingTools." Definition - AccountingTools. AccountingTools, 2017. Web. 15 Feb. 2017.

[ii] Wikipedia contributors. "Series and parallel circuits." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 12 Feb. 2017. Web. 15 Feb. 2017.

[iii] Parejo, Juan Carlos. "Resistance and Ohm Law." Petervaldivia. *Www.petervaldivia.com*, 2015. Web. 15 Feb. 2017.

Keywords: Vector, State-function, Temporal, Economics, Metric, Circuits



Discovery of the List of Fossil Localities in Japan(1884)

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The List of Fossil Localities in Japan(1884) was discovered in the Library of Geological Institute, the University of Tokyo. It includes 360 fossil localities. Some of the names of geologic ages, fossils and stones are different from modern usages. Some are written in Chinese, and some names of fossil are old term used in Edo Era. It shows the efforts of Japanese paleontologists of that days.

Keywords: The Geological Society of Japan, fossil locality, 1884