

Titius-Bode's law, the formation mechanism of the moon, to explain the driving force of plate tectonics unified manner of "multi-impact hypothesis", elucidate the Earth evolution in Abduction, Approaching the mystery of the diamond formation

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Efficacy of abduction is determined all in the selection of "physically meaningful hypothesis". "That multiple conclusions can be explained systematically without contradiction to each other the current situation" is the proof.

The "Multi-Impact Hypothesis," to give the hypothesis with the following "Linking the moon and the earth of the Missing Link," a unified reasoning of (A) and (B).

(A) Differentiated protoplanetary CERRA of Mars size formed in the asteroid belt position of the solar system, by the perturbation of the most recent of Jupiter (giant mass), orbit is flattened to Jupiter near point side.

(B) Immediately before the CERRA to Jupiter collision, ruptured at a tension of Jupiter and the sun, the mantle piece collide intersects the Earth orbit.

by Abduction \* : The flow of origin relationship of plate tectonics +: the origin and flow of the kimberlite pipe, diamond formation, Formation mechanism

(1) Moon of origin: collision mantle piece to Earth (12.4km /s, 36.5 degrees: from theoretical calculation), and formed in the orbit radius 60Re position, Formation mechanism

\*(2) Pacific Rim arc-shaped archipelago marginal origin: In the Pacific Ocean position collision at the time of moon formation, Depression marginal sea forming in all directions

\*(3) By a large amount of mantle deficient moon formation collision, Van Allen belt of Brazil of core eccentricity (about 10 percent) was reduced.

\*(4) CERRA it takes about 5-6 million years until the track flat torn in Jupiter perturbation, had already differentiated cooling.

\*(5) Multiple of mantle piece collide to Earth by peeling off the mantle, 70 percent of the sea surface of the earth -5km was formed by isostasy.

\*(6) Origin of plate tectonics PT, minimization of the eccentric and the moment of inertia caused by the collision as the driving force.

\*(7) Origin of plate boundary, Crust peeling due to the mantle piece collision and crack formation.

\*(8) Origin of arc-shaped archipelago and Marginal basin plate : Mantle deficit by collision and plate concave formed by isostasy

\*(9) The origin of the start of subduction convex plate : When the concave plate and the convex plate each other press by the driving force, cause the convex crawl under concave.

+(10) Why diamond pipe has been formed in the South African Premier and Russian Mirunui district? : Collision of Hawaii position, the collision energy was jetting pipe becomes a pressure concentrated on the opposite side of the Earth, and then continental drift.

+(11) Collides with the opposite side of the Drake Passage of Mirunui mine, Antarctica has been stabilized to move.

+(12) Why earth's axis is tilted even 23.5 degree from the revolution surface ?

: The Drake (high latitudes) was estimated to collision of CERRA division pieces to the position.

(13) Fragments at break of CERRA is the origin of the asteroid belt. Understood in the distribution of long radius (kinetic energy)

(14) The meteorite, but differentiated stony, stony-iron and iron meteorites are mixed, it can be understood with the fragments of CERRA.

(15) There are several fragments of CERRA, large species extinction repeated happened with sequentially collision.

(16) Core and part of the mantle of CERRA, the mass is large energy such as distribution, It became a low orbital energy Mercury with law of equipartition of energy.

(17) The fragments of CERRA that has collided to Jupiter, was the origin of the Great Red Spot. cf. Shoemaker Levy No.9 comet collide with Jupiter in July 1997, collision marks remained about half a year as small red spots.

If large Serra of debris from the comet, it is possible to maintain the Great Red Spot without disappear from the hundreds of millions of years ago. Is this in the finished demonstration experiment?

What to elucidation of purposes in the sample return plan is made clear.

Keywords: Titius-Bode's law, the formation mechanism of the moon, the driving force of plate tectonics, Multi-Impact Hypothesis, Abduction

