

Formation mechanism of the Moon and Earth's Deep Ocean-floor and plate edge cracks, with multi-impact hypo

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In Multi-Impact Hypothesis, we assume that Protoplanet CERRA (about Mars size), which was on the same revolution surface, deformed as potential energy universal at the near point side of Jupiter by perturbation of Jupiter. CERRA of asteroid Ceres position at a meeting cycle of approximately every 275 years, and after several million years elliptical orbit was flattened so as to intersect the Jupiter's orbit. The attraction of both Sun and Jupiter, CERRA is beyond its breaking strength just before collision, to tear into multiple pieces. Since orbit CERRA during tidal destruction intersects the earth orbit, mantle pieces (about a month size) is the collision time difference more than once. In the first collision (about 1.5 month size), the formation of the Pacific Ocean of impact craters and the moon has occurred. By isostasy, mantle is about 4700m depth of the Pacific Ocean more than half of the size of the deep ocean's floor was formed. Giant impact of mantle debris with Darwin raised, along with scattered melting and loss of crust and mantle, deformation and mantle, including the eccentricity of the core, to the Earth radius R_E : 6400km, of depth: 5km depth of the seabed surface area status quo rate of about 70 percent, to there can be no chance in the formation. **Mr. Wegener had raised issue, but the origin of the deep ocean-floor problem had been forgotten.**

As a result of plate boundary cracks and formation as the formation of a concave depression and arc archipelago of plate, and as a result start of subduction of the plate due to boundary stress of convex plate, the correction of the power of the unbalance of rotation and inertia secondary moment (the minimum value) has pointed out as a driving force. Trajectory and the seamount due to the hot spot of the Pacific Ocean, Distance and residual magnetization direction conversion of even rapid 60 degrees to the moving direction is the same time due to the earth time pattern by from the mid-ocean ridge as the Ocean-floor spreading theory, Can not be explained by the driving force of mantle convection theory. Even if the plume tectonics, why to convection and plume occurs in that position, what has been formed in the way any boundary of the plate, what is now the driving force is generated in any way, there are many problems which can not be sufficiently explained. Collision (:formation of kimberlite pipe to Mirunui position is shown) of **the Drake Passage position** forming the Tethys (high latitudes) is generated the moment of tilting the earth's axis about 23.5 degrees and Moon's orbit radius as $60 \cdot R_E$. As a result of mantle missing of the Arctic Ocean position, Antarctica is not moving after fits to the rotation pole. But Deccan Plateau and Australia have moved actively. Indian Ocean is formed, when the Gondwana continent is divided, divided continent occurs large-scale move to any direction. Not the time (about 4.6 billion years ago) of magma ocean by accumulation of planetesimals. But the flattening of the elliptical orbit of up to 40 million years ago and cooling, Mantle and core has been fully differentiated, It was tidal disruption. Part of the core-mantle CERRA loses energy and angular momentum, became Mercury by changing the orbit the sun direction.

From the intersection of Earth orbit and the elliptical orbit, **the relative speed at the time of collision is 12.4km/s and impact angle is about 34.6 degrees** and the moon's orbit radius was calculated to be $60 \cdot R_E$. Second-order space velocity of the Earth is a 11.2km/s, first-order space velocity is 7.9km/s. When describes the radius of the earth as R_M , **in Multi-Impact Hypothesis, Moon is formed substantially of current position (about $60 \cdot R_M$). In Giant impact hypothesis, Moon is formed at a distance of $3 \cdot R_M$, it is a 1/20 position energy of the current moon.** But there is no consideration of fee-dengue zone of impactor of Mars size, that impact velocity and direction of the realization probability is too good to be accidentally.

I propose **The unified formation mechanism.**

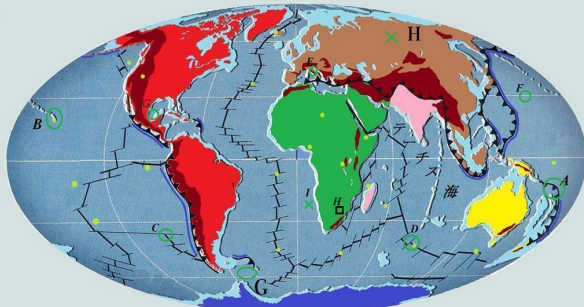
Keywords: Formation mechanism of moon and Earth's Deep Seafloor, The plate edge crack formation, Multi-impact hypothesis, Driving force of plate move, Large extinction of over and over again of organism species, Frequency curve showing a two-peak

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マルチ-インパクトの衝突痕跡とプレートテクトニクス境界亀裂分布



衝突痕跡: A~G G: Drake passage プレート境界と山脈
海嶺と海溝、大陸と海洋、ホットスポット分布と海山列