

[EE] Evening Poster | U (Union) | Union

**[U-02]Pacific-type orogeny: From ocean to mantle**

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Pacific-type convergent margins (ocean - continent) and their related orogenic belts exist/form over subduction zones, which are the only ways to deliver surface materials to the deep mantle. Pacific-type orogens keep records of the evolution of paleo-oceans, formation and transformation of continental crust at their active margins, and generation of hydrous-carbonated plumes in the mantle transition zone (MTZ) and its related intra-plate magmatism. An approach linking paleo-oceans, active margins and plume magmatism stands on three "whales": the model of Ocean Plate Stratigraphy (OPS), the parameters of active convergent margins and the model of hydrous-carbonated plumes. The OPS model was created by many detailed studies of western Pacific, in particular Japanese, accretionary complexes; it allows recognizing different oceanic plates within one paleo-ocean and evaluating their sizes and ages. Pacific-type convergent margins are places of major continental growth by island-arc juvenile magmatism and accretion, but they are also places of strong plate interactions and crust destruction. There are two contrast types of those margins: accreting ones accompanied by the formation of accretionary complexes, and eroding ones accompanied by the tectonic and subduction erosion of accretionary wedge, fore-arc prism and volcanic arc. The materials of oceanic and continental crust, which are eroded at Pacific-type convergent margins, can accumulate in the MTZ and affect mantle conditions. All those processes, the subduction of hydrated and carbonated oceanic crust, the destruction of continental crust at eroding margins, and the accumulation of mafic and sialic materials in the MTZ can synergistically trigger the generation of hydrous-carbonated mantle plumes in the MTZ, mantle melting and upwelling, and intra-plate continental magmatism. We welcome papers on results from Pacific-type orogenic belts worldwide and from Archean to Cenozoic ages.

**[U02-P01] Origins of Pacific arcuate archipelago and back arc concave plate,****Driving mechanism and *origin of plate tectonics*, Origin of Tethys Sea and India Sea**

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Keywords: Origin of deep ocean floor, origins of Pacific arcuate archipelago and back arc concave plate, driving mechanism and origin of plate tectonics, origin of Tethys Sea and India, Multi Impact Hypothesis, Verification of all origins by abduction can be verified by being able to explain the result of one time evolution uniformly

**Purpose of SCIENCE is to explain and understand Mysteries of Universe.**

In SCIENCE, there is a Method to explore Analytically and Integrate Results, but it is too Specialized and Explanation of Integration is insufficient.

As Mystery of Solar system, (a) Origin of Deep ocean floor of Earth, (b) Origin of Plate Tectonics. (c) Mystery of driving force. (d) Mystery that plates begin to overlap one another. (e) Mystery of plate movement direction sudden change. (f) Mystery of rotation axis inclination is mentioned.

When Mr. Wegener proposed the movement theory of continental movement, it was rejected by saying that the driving force is unknown.

At the same time, although it presented Mystery of Origin of Surrounding sea of Pangea and Margin of 70% of Average 5 km deep, it is still ignored and Nobody has answered.

For Inference of Origin, creative reasoning is optimal, assuming that Hypothesis that unifiedly explain all Mysteries rationally is Most true, using Multiple Results of one-time Evolution.

It is particularly difficult to propose a Hypothesis that can Explain All the current Results like this in a unified Way, if it can match All, it is Epochal.

In "Multi-Impact Hypothesis<sup>(1)2014 U02-P24</sup>", Protoplanet CERRA accumulated at Position of Asteroid Belt was perturbed by Giant Planet Jupiter that subsequently accumulated, and Orbit became Elliptical Orbit.

Fragments of Mantle became Asteroids of Train, circled around Sun, collided with Earth with a time lag, Great Extinction of species occurred in Conflict.

In addition, Seven Seas became Mantle Defects and formed with Isostasis.

Tidal Rupture with Jupiter and Sun's Attraction, Mantle tear strip turns around Sun as a Train Asteroid,

and Collisions of Earth causes Large Extinction of Species, Seven seas with an average depth of 5 km were formed by Mantle Defect and Isostasy.

Collision to the Pacific Ocean is Origin of Injected an eccentric Moon with Only Mantle, and Pacific Arc Island and Back Basin.

Collision to High Latitude was Origin of Formation of Tichitan Sea, Sudden Change of Plate Movement Direction and Ground Axis Inclination.

When Concave Plate and Convex Plate are pushed together, Convex Plate deforms and enters under Concave Plate.

Driving Force is a couple that minimizes Moment of Inertia of Earth and Inclination of Axis of Rotation is Reason for causing a Sudden Change in Direction of Movement.

Furthermore, in Multi-Impact Hypothesis, Orbit Radius of Moon, Collision Speed and Angle, Plate Boundary Mantle Crack of Earth, Immobility of Antarctic continent and the 10% Eccentricity of Van Allen Belt, Reversal of Geomagnetic Reversal and Mr. Wegener's Altitude Double Frequency, I can explain All Every Item.

You can explain all about Origin of Pluto, Origin of Mercury's core rich and Asteroid Belt, and Mysteries of Differentiated Meteorite. In Addition, I could explain Origin of Kimberlite Pipe.

In the Earth's cross section, the mantle defect at the location of the Pacific Ocean at the moon injection and the equilibrium depth due to the isostasy 5 km, the mantle flow, the core eccentricity and the collapse of the surrounding plate (concave marine basin and arcuate island formation), the moment of inertia imbalance Couple generation, cause of plate driving force and convex plate subducting under concave All mysteries became clear.

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