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## **Impact Consequences**

### **Sea-water Tsunami hazard and risk against life-planet Earth by Asteroid impact on ocean water**

**Yasunori Miura**

Yamaguchi University, Yamaguchi, Yamaguchi, Japan  
(Address 753-0074 Chuou 4-1-23, Yamaguchi, Japan)

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#### **ABSTRACT**

Three natural huge disasters of earthquake, volcano and asteroid-impact which are caused by rapid shock-wave change (with tsunami on sea-water) continuously in the Earth system and life substances. It would develop continuously disaster-resilience mainly due to less prevention against huge natural disasters, mainly because we cannot stop in advance for any global natural shock-wave events by humankind. Different from Earth's interior events of earthquake and volcano, asteroid-impact is long orbital periods before the entry to water-Earth. Ocean impact of broken and buried impact structures with huge tsunami event followed to quakes and volcanoes on active Earth, should be controlled near planet Earth before the entry to active surface of water-planet by our human strategy of intelligent future plan.

The present study can summarized as follows (*Miura, 2015*).

- 1) Shock-wave events on water-planet Earth are asteroid-impact, earthquake with tsunami and volcano, where activity of extraterrestrial impacts with followed ocean impact and volcano with tsunami event above the crustal rocks and ocean water can be observed as first detection on Earth's surface.
- 2) Asteroidal collisions on ocean water with tsunami events to continuous changes of our water-planet Earth with earthquake and volcano are successive collision-evolution process in the global solar system, which can be observed Asteroidal objects from terrestrial stations and extraterrestrial base-sites (on the Moon and Mars) to be expected changes of the asteroids' orbits by manmade methods.
- 3) Macroscopic global-cycles of water-planet Earth from continuous formation-and-broken process with tsunami events include microscopic recycles of human life from birth-and-death recycle process, where death process of life organism should be replaced continuously to the next generation or new species in active water Earth (called as "mini-type Earth-like activity") .
- 4) Earth planet with global ocean system shows continuous planetary activity to be changed surface materials and topographic geology against any shock-wave damages with tsunami events, where human life should propose more effective strategy for the next replaced generations and new species continuously (called as "mini-Earth-type development").