Japan Geoscience Union Meeting 2014
(28 April - 02 May 2014 at Pacifico YOKOHAMA, Kanagawa, Japan)

SMP06-P05 Room:Poster Time:April 28 18:15-19:30

Dynamic and cyclic process of carbon-bearing phases of the terrestrial interior

MIURA, Yasunori[1*]

[1]In & Out Universities

The results of the present study are summarized as follows:

1) Carbon-bearing mineral phases of the terrestrial interior are discussed to elucidate dynamic change of material states (air, liquid and solid) on active Earth planet.

2) Samples used in this study are diamond (Congo,Africa), limestone (Akiyoshi, Japan), carbonatite (Lengai, Tanzania,Africa and Europe-North America), and shungite (Shunga, Russia) together with carbonate grains of Libyan glass (Africa) to observe micro nano-grains of carbon-bearing materials with the FE analytical SEM etc.

3) The present data indicate that micro carbon-bearing grains are easily changed and remained as the three materials states mainly as solidified glasses by high pressure shock waves of earthquake, volcano and impact events to the surface to the interior.

4) Local fluid-bearing depositions irregularly distributed on the surface and interior of active Earth are based on storages on the interior formed by solidified mixtures of multiple carbon-bearing material states originally triggered by impact process on primordial Earth and ocean floors of evolved Earth.

5) The primordial planet Earth with remained heterogeneous surface by original impact-related process is considered to produce dynamic cyclic system of three material states (air, liquid and solid) of carbon-bearing materials with macro-life activity which is formed by huge production from the interior triggered by huge collision process of the giant impact and followed inner movement of active Earth with complicate local reservoir.

Keywords: carbon, interior, cyclic process, shock wave event, irregular distribution, local deposit