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## Expansion-oriented view on origin of oceans

**Subhasis Sen**

Council of Scientific & Industrial Research, India

The author considers that the prevalent views on origin of ocean basins and ocean water are inconclusive and vague and cannot be justified by scientific principles. Both the concepts of plate tectonics and continental drift conceive that oceans are of great geological antiquity while Hilgenberg's model (1933) of earth expansion endorses that initially the planet was considerably small and devoid of oceans. Based on Hilgenberg's model of earth expansion, the author considers that since the primordial earth was devoid of oceans, at that stage the ocean-forming water must have been associated with the mantle, thereby turning that geosphere considerably fluid. Such semi-fluid mantle must have been pre-eminently suitable for planetary expansion, owing to swelling up in response to an external gravitational pull causing by an extra-terrestrial planetary body, probably the moon. The primordial earth was completely covered with a relatively thin granitic layer forming crust, which, due to swelling up of the mantle would be cracked forming a number of long and sinuous expansion cracks. Through these expansion cracks widespread discharge of molten magma took place which spread on both sides of the cracks forming the floors of the oceans. With continued expansion, caused by gravitational attraction of the external planetary object the dimension of the oceans broadened while the expansion cracks turned in to mid-oceanic ridges.

### Biography

Subhasis Sen is a retired Scientist of the Council of Scientific & Industrial Research, India. He is an Earth Scientist and has conducted studies on various fundamental aspects of earth and planetary sciences, including original researches on fuel resources. Based on earth expansion theory of Hilgenberg (1933), he has developed a model of global tectonics termed 'Unified Global Tectonics' for explaining major global phenomena like, planetary expansion, evolution of oceans over the global surface, cause of earth's expansion and various other features of global significance.

ssennagpur82@yahoo.com

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