

## **Part III-2    Geology and Karst Ecosystem**

### **Geological Evidences for the Noah's Flood in the Black Sea.- Evidences for a Major Earthquake 7600 BP.**

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Authors present a number of geologic, climatic, oceanographic and archeological evidences that the Noah's Flood happened in the Black Sea. Analysis of the data obtained in the last 20 years suggests an exceptionally large natural catastrophe in the Black Sea 7600 yrs. BP.

8 – 9 thousand yrs. BP (after  $^{14}\text{C}$  dating) Black Sea was a sweet water lake with coasts 90 – 120 m below the recent day sea level. A catastrophic extremely rapid flooding of the Black Sea by the Mediterranean sea waters happened during the last interglacial warming. It produced deposits of geocatastrophic type- sapropels. They consist of up to 2 meters thick deposit of dead organic matter from the sweet- water organisms killed by the invasion of ocean waters with 38‰ salinity. It's age is 7600 r. BP. At that time the global sea level was 30-40 m bellow the modern one, while the Black sea was – 120 m. Flooding of the Black sea happened in result of breaking of the Bosphor's dividing wall. Probably this happened in result of activization of seismo- techtonic processes in the region.

A number of archeological evidences suggesting, that this catastrophe is exactly the Noah's Flood are found around the former sea coast, far below the sea surface.

### **The "Grotte de Hotton" Karstic Network: Relationships between Tectonics, Cartography and Karstogenesis Paleoseismic implications**

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The Hotton cave is one of the most famous karstic networks of Belgium that has been developed in the Givetian limestones in the Ardennes. The cave was investigated with karstic, structural and morphogenetic studies in order to integrate all these aspects in the genesis and the history of the cave. The Hotton region is