



## Ancient earthquake data extraction by archeological findings

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Recent archeological excavations and findings helped a lot to reconstruct data and information about ancient earthquakes and their effects to the historical societies.

Two cases are under investigations: 4550 years BC Solnitsata-Provadia archaeological site and Cybele temple (6th century BC) site.

The first case is related to the destruction of the defensive bastions of the ancient society of the salt producing ancient civilization. After field observations and modeling the source of the seismic force is located and the power of the ancient earthquake reconstructed.

The second case is much more complicated but as well as much more informative about the complex disastrous event affected the 8 centuries active temple of the goddess Cybele. Effects of earthquake, tsunami and landslide activity are well preserved and documented in the soil layers covered the ancient ruins. Almost all parameters of these hazards are reconstructed by a logic tree, field investigation and documentations and time dependent scenario.

Such investigations are able to help a lot the time frequency of such hazards, but need active participation of the different kinds of experts during the archaeological excavations.